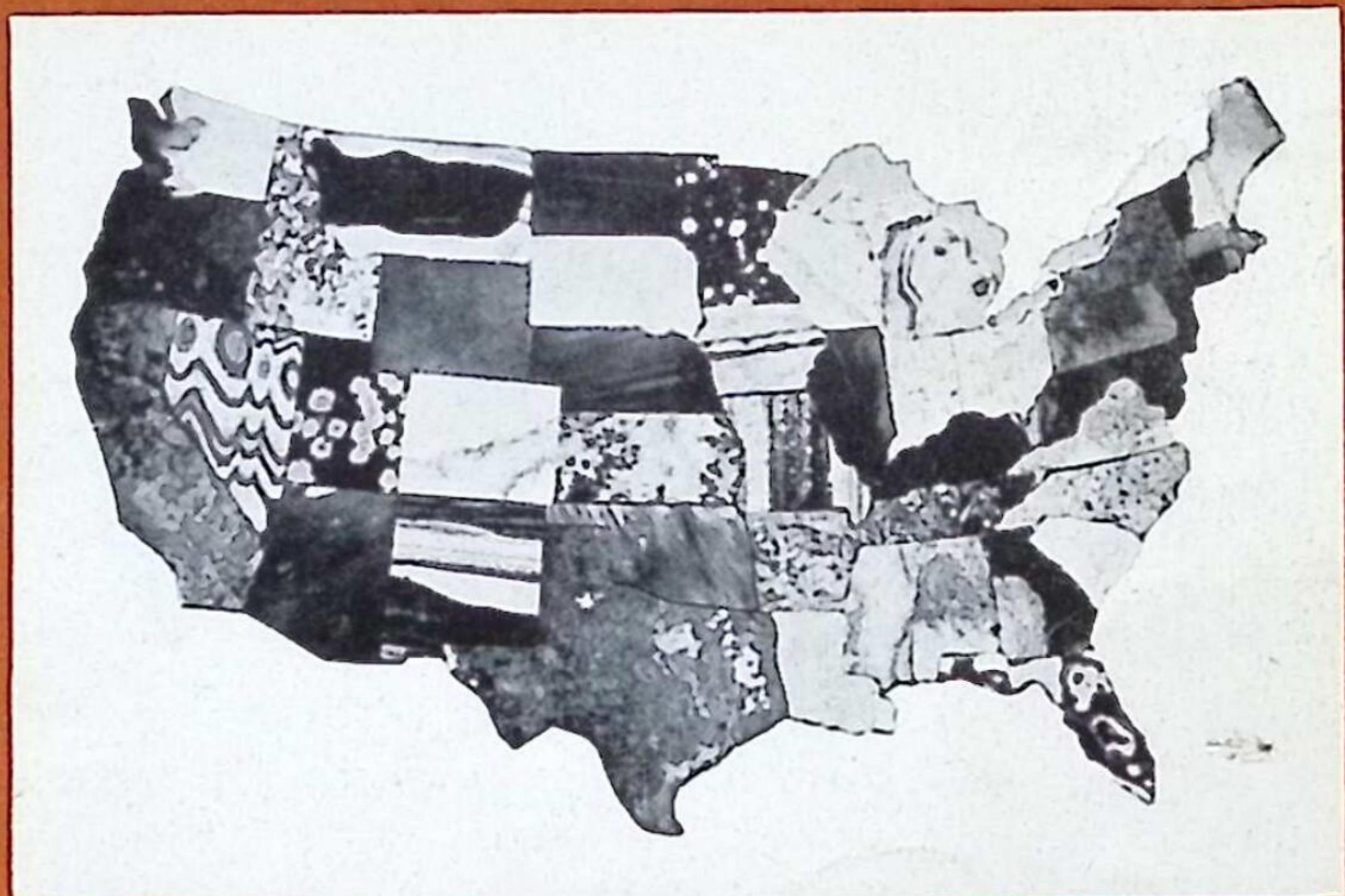


The
Lapidary
Journal

OCTOBER, 1949



THE HOPE OF THE WORLD
In Native Gem Stones

A National Magazine for
GEM CUTTERS + COLLECTORS + JEWELRY CRAFTSMEN
Hollywood, California

VOLUME 3

50c PER COPY

NUMBER 4

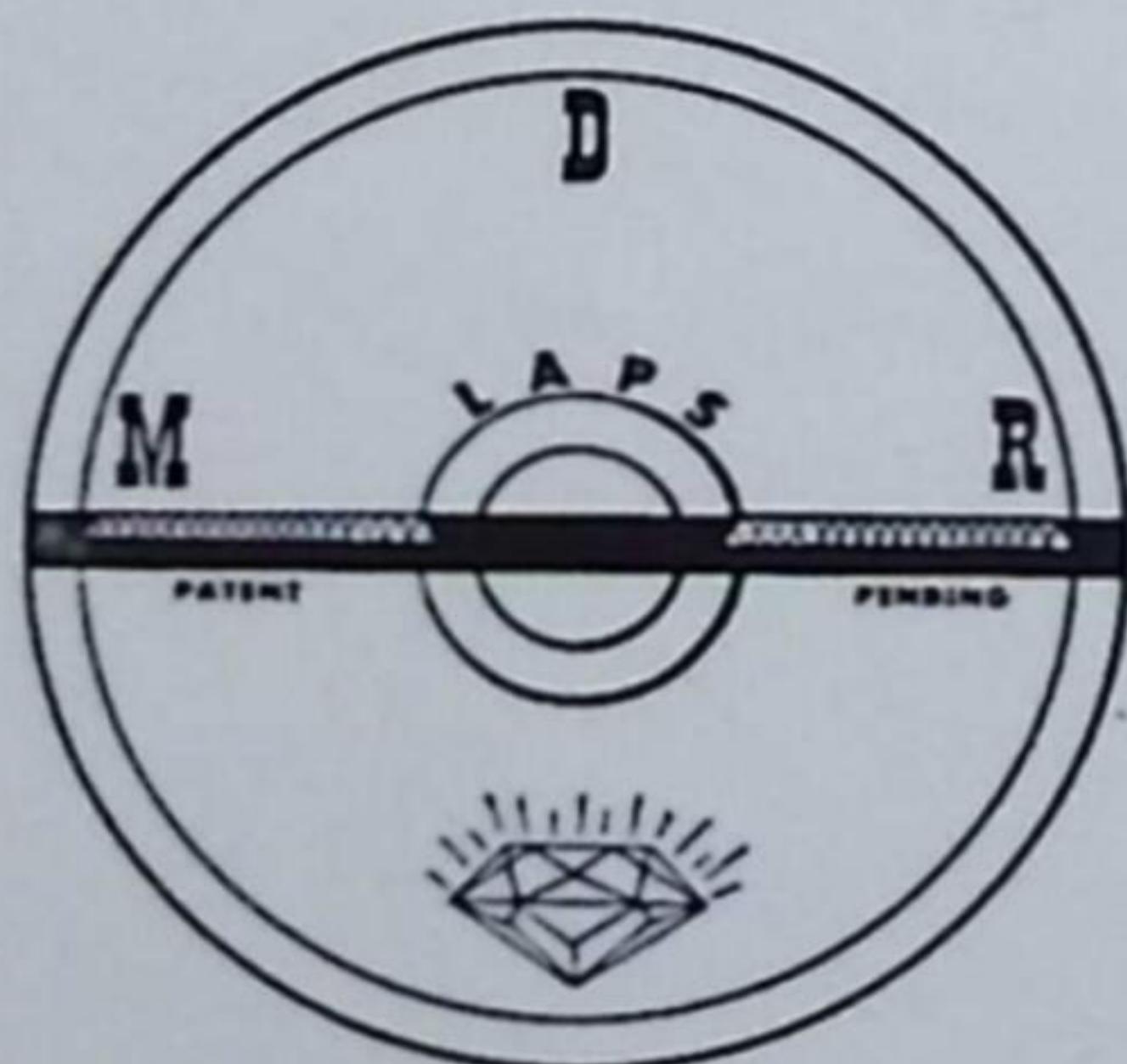
THE MASTER FACET UNIT No. 8824 FOR COMMERCIAL AND AMATEUR CUTTERS

A precision tool with the following features: Non corrosive construction throughout except set screws and pivot bearings—Finger tip control—fast and positive compound angle feature (Exclusive on MASTER). Hardened steel needle point pivots, insuring a lifetime of wear. Adjustable gib in mast to compensate for wear. $\frac{1}{4}$ " collet type chuck. Calibrated column to enable the cutting of a number of stones of the same size. Available in Right or Left hand models. 64 Index standard equipment. 72, 80 and 96 Index gears available on request. Permits the cutting of hearts, marquise and pendeloques with the same ease as cutting round brilliants. Price \$146.00 with No. 427 Master lap assembly, No. 438 Slide base and No. 440 copper splash pan. California purchasers add sales tax.



M.D.R. LAPS FOR FACETING

Precision cutting and polishing laps for all stones. Made of cast dural with an insert of tin, type metal, tin and type, lead or pitch. This type of lap assures you a true polishing surface.



No. 27—Tin \$14.20 No. 30—Type ... \$7.95

No. 28—Tin & Type \$10.95 No. 31—Pitch ... \$7.95

No. 29—Lead \$ 7.95 No. 33—Lucite .. \$4.20

No. 32—Diamond, impregnated copper, 400 grit one side, 800 grit other side, price \$31.38.

Something new—grind and polish on same lap.

No. 34—Combination copper and tin. $1\frac{3}{8}$ " of copper impregnated with 800 diamond, with $1\frac{7}{8}$ " insert of tin, \$33.41.

Above prices are for 8" laps— $\frac{1}{2}$ " arbor. If your dealer cannot supply you write direct to factory. All prices F.O.B. Los Angeles, subject to change without notice.

M. D. R. Manufacturing Company

4853A W. Jefferson Blvd.

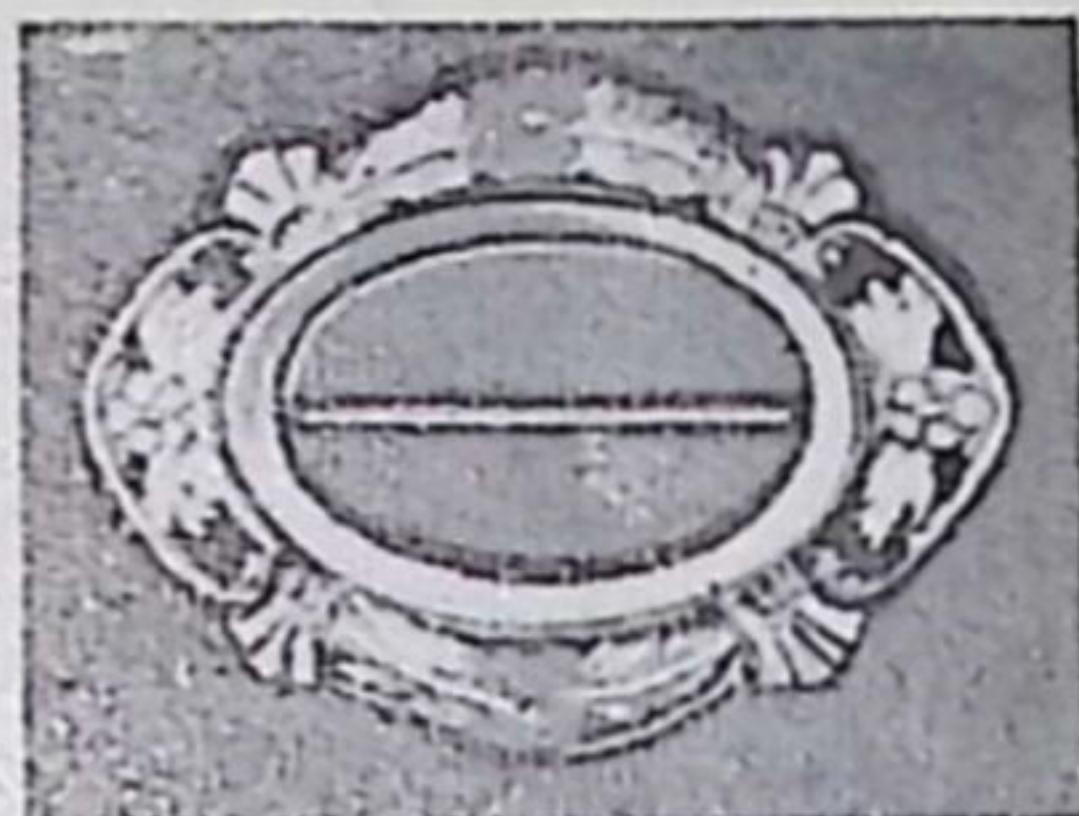
Republic 2-7889

Los Angeles 16, Calif.

A-T-T-E-N-T-I-O-N!!

Substantial savings on top-quality STERLING SILVER MOUNTINGS

Non-tarnish professional finish — Bezel stone seats — Substantial weight
Soldered links — Safety catches — 3-tone gold filled double leaf and flower
trims attached.



#735X Brooch
For 18/13mm stone
\$9.75 Dozen
.90 EACH



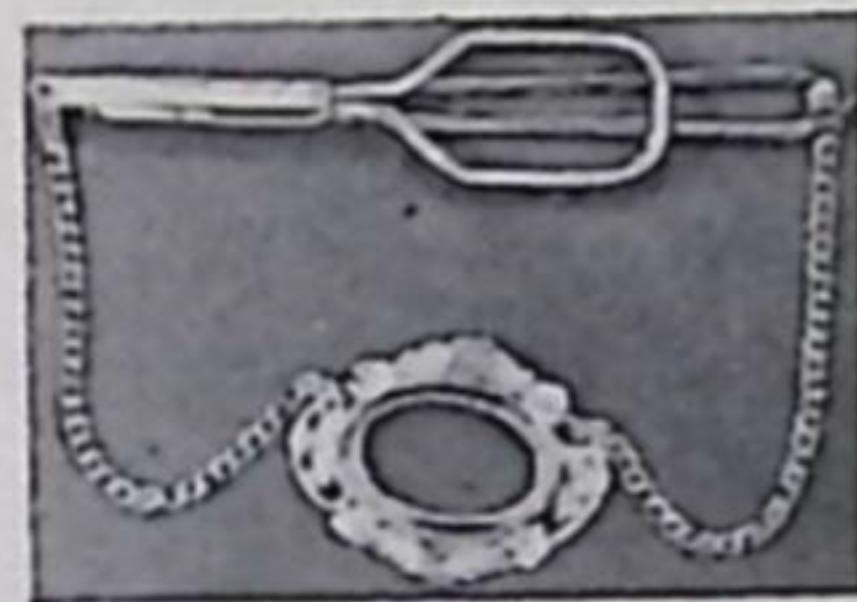
#718X Pendant
For 18/13mm stone
\$9.00 Dozen
(Less Chain)
.85 EACH



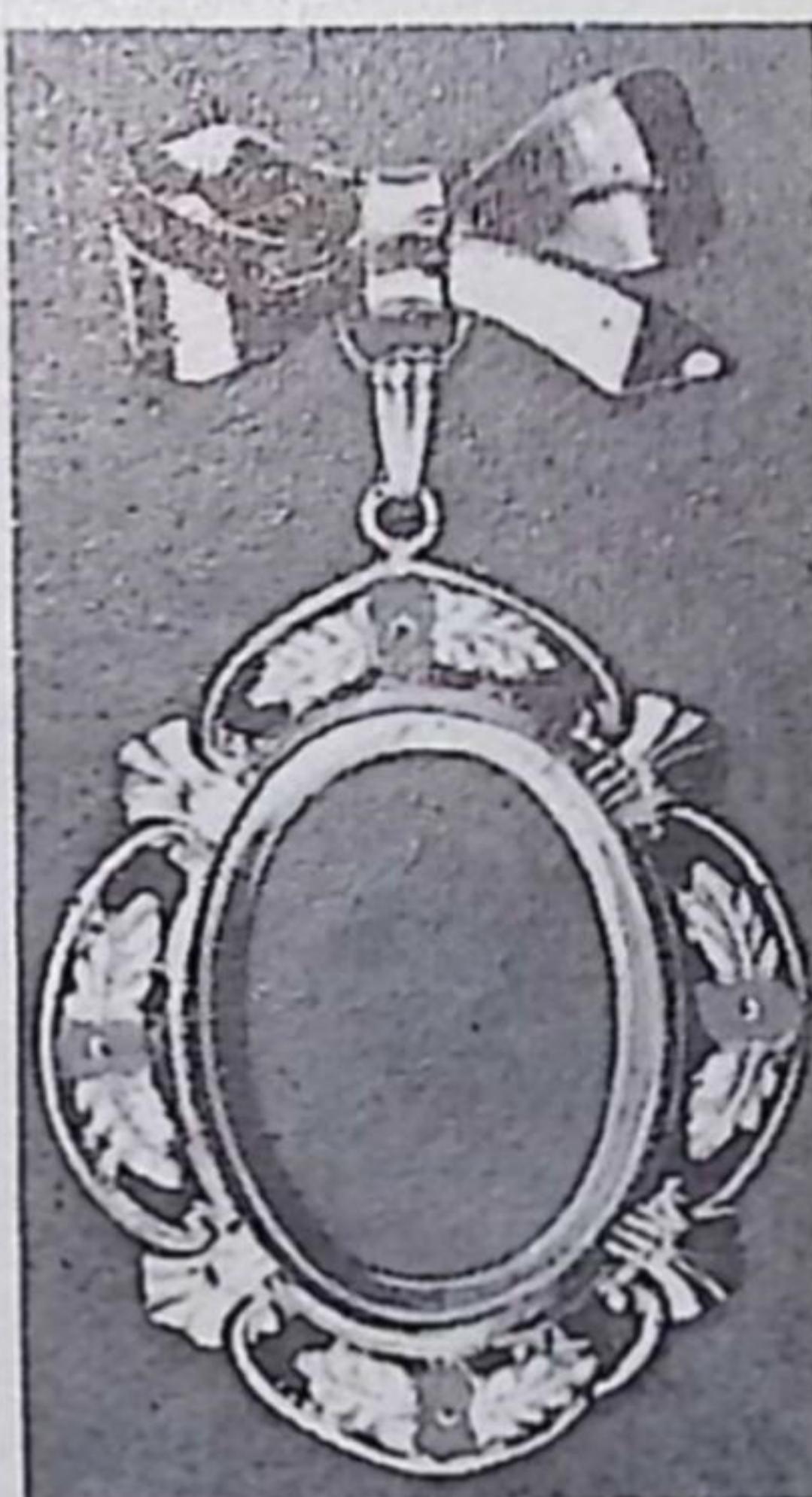
#C718X Chatelaine
For 18/13mm stone
\$10.90 Dozen
1.00 EACH



#PS1X Lady's Ring
For 18/13mm stone
\$13.50 Dozen
1.25 EACH



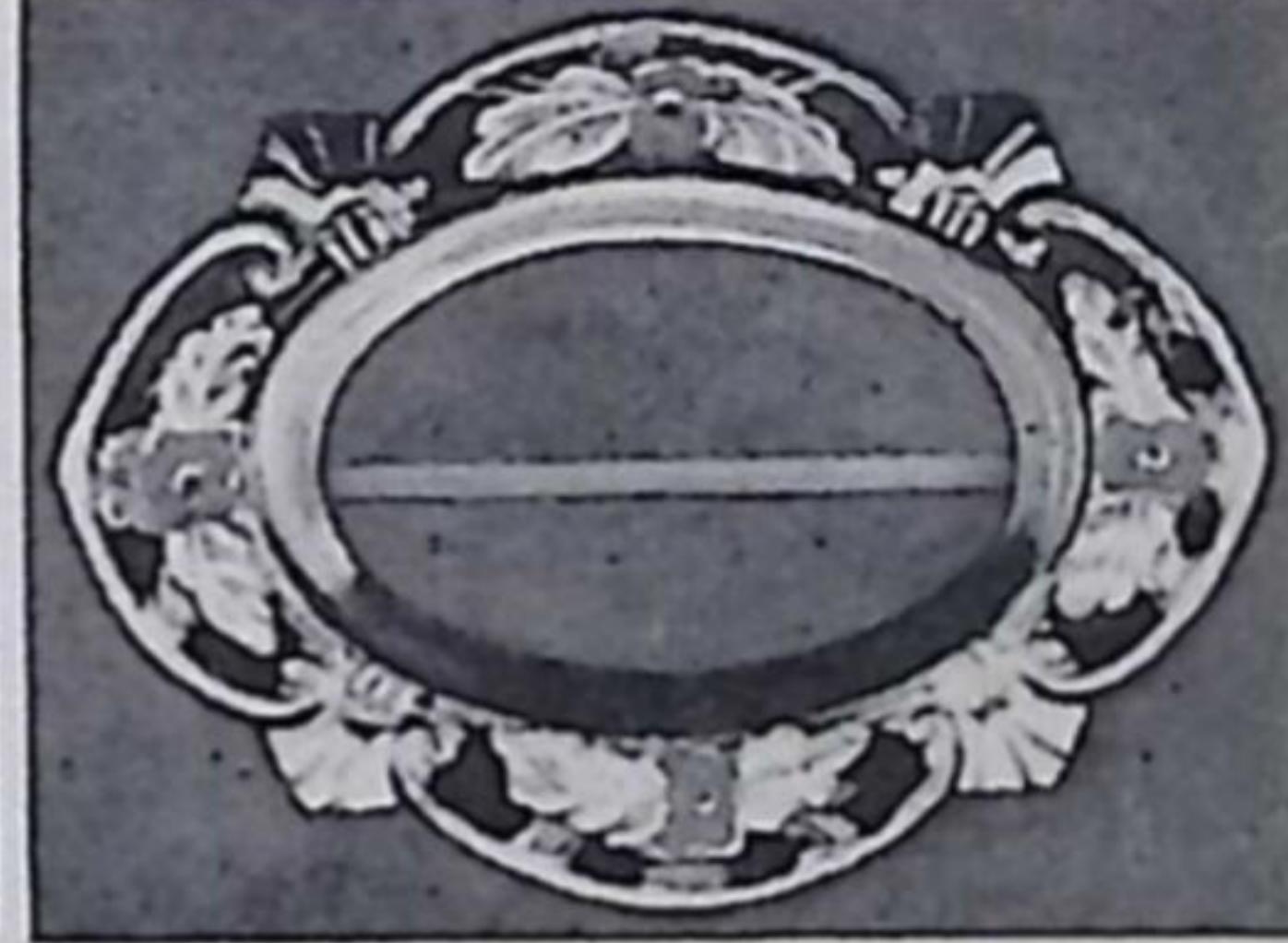
#719X Tie Chain
For 18/13mm stone
\$12.00 Dozen
1.10 EACH



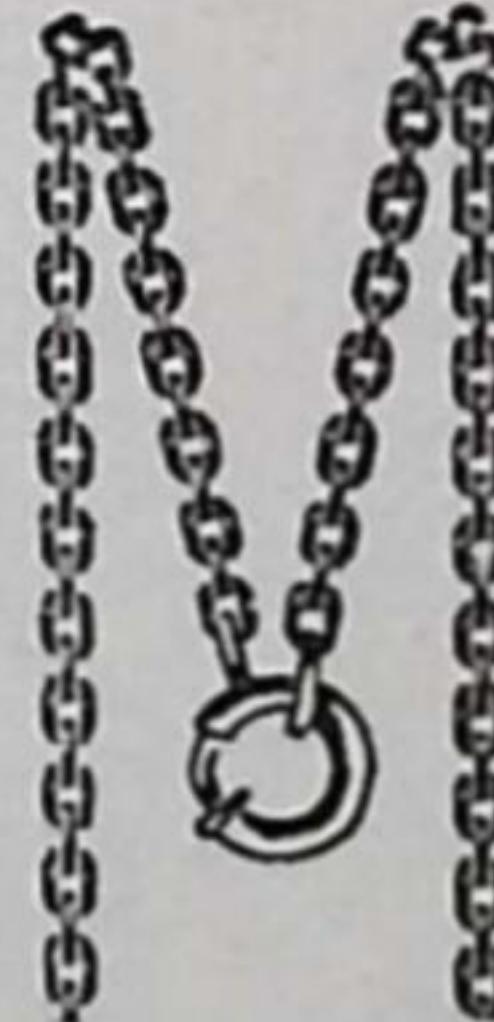
#C618X Chatelaine
For 25/18mm stone
\$13.15 Dozen
1.20 EACH



#618X Pendant
For 25/18mm stone
\$11.25 Dozen (Less Chain)
1.05 EACH



#635X Brooch
For 25/18mm stone
\$12.00 Dozen
1.10 EACH



#1318F Silver
Chain-Carded
18" cable
\$3.45 Dz.

20% FEDERAL EXCISE TAX to be added if not for resale. If for resale, specify on order with state tax number and other identifying information.

Minimum Order Approximately \$10.00

**SPECIAL
OFFER**

Limited Time Only

Complete Set—8 Pieces with
2 neck chains and all taxes.

\$9.95

*All taxes
included.*

ORDER TODAY

Pay postman on delivery plus few cents postage.
Postage prepaid on cash-in-advance orders.

The CONLEY *Co.,*

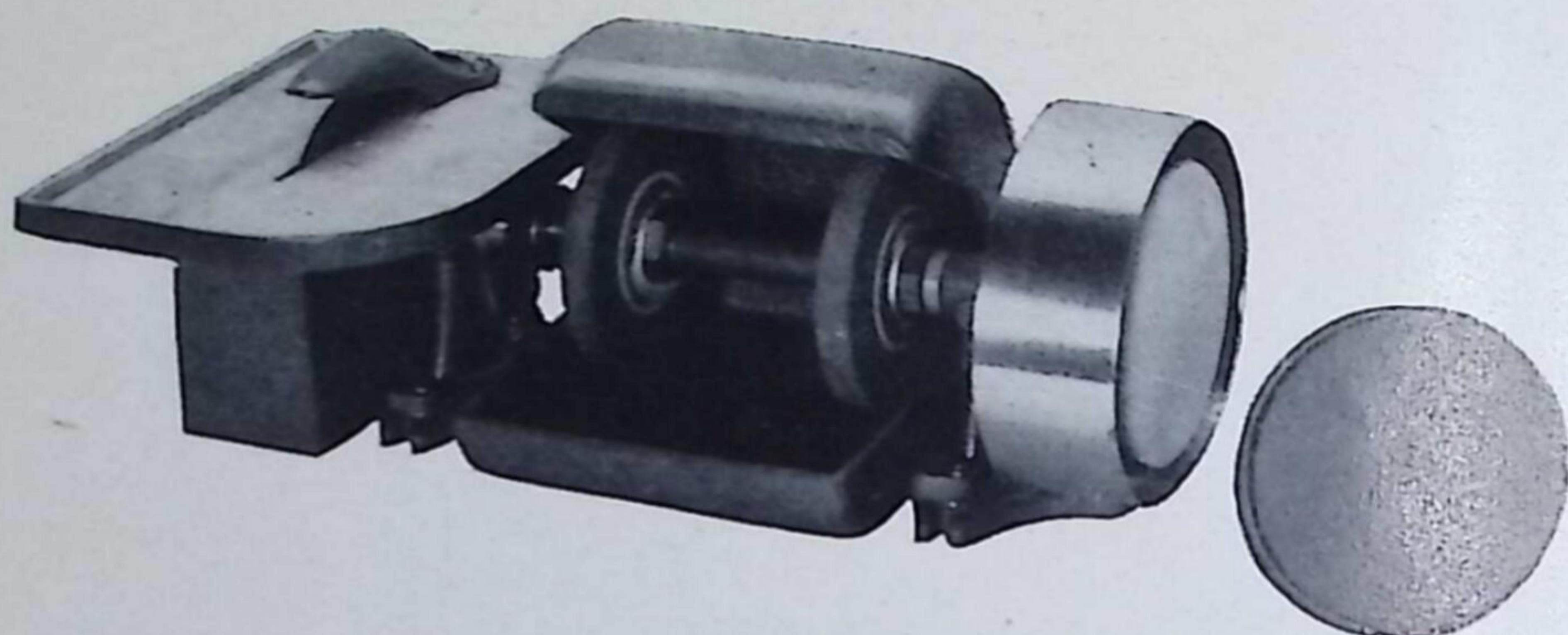
Manufacturers and Distributors,

W. 715 Riverside Ave., Spokane, Wash.

Reduced prices now in effect on all other mountings assembled or distributed by us.
Price list on request.

LOOK!

IDEAL FOR BEGINNERS



JUNIOR GEM CUTTER

Polish Rocks into Beautiful Gems

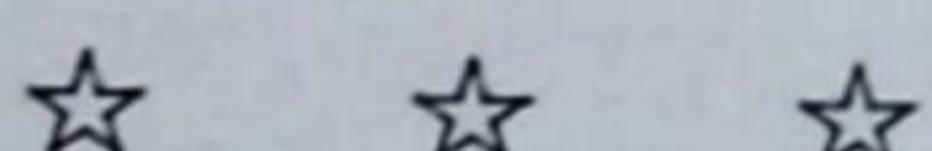
Start this Art now with your stones or with stones included with the Junior Gem Cutter. Mount them in rings, bracelets, necklaces, etc.

An Ancient Art Made Modern with This New and Inexpensive Machine

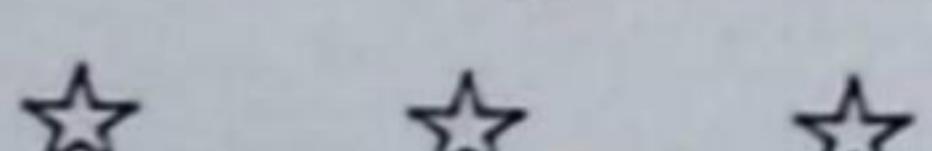
Anyone can learn! The whole family will enjoy this fascinating art. Easy and complete instructions are included with each Junior Gem Cutter.

You don't need a "shop" for this equipment. Ideal for apartment dwellers and persons with little space.

ORDER NOW—\$37.50



Full line of supplies and findings for the jewelry craftsman.



★ Write for our New Free Catalog ★

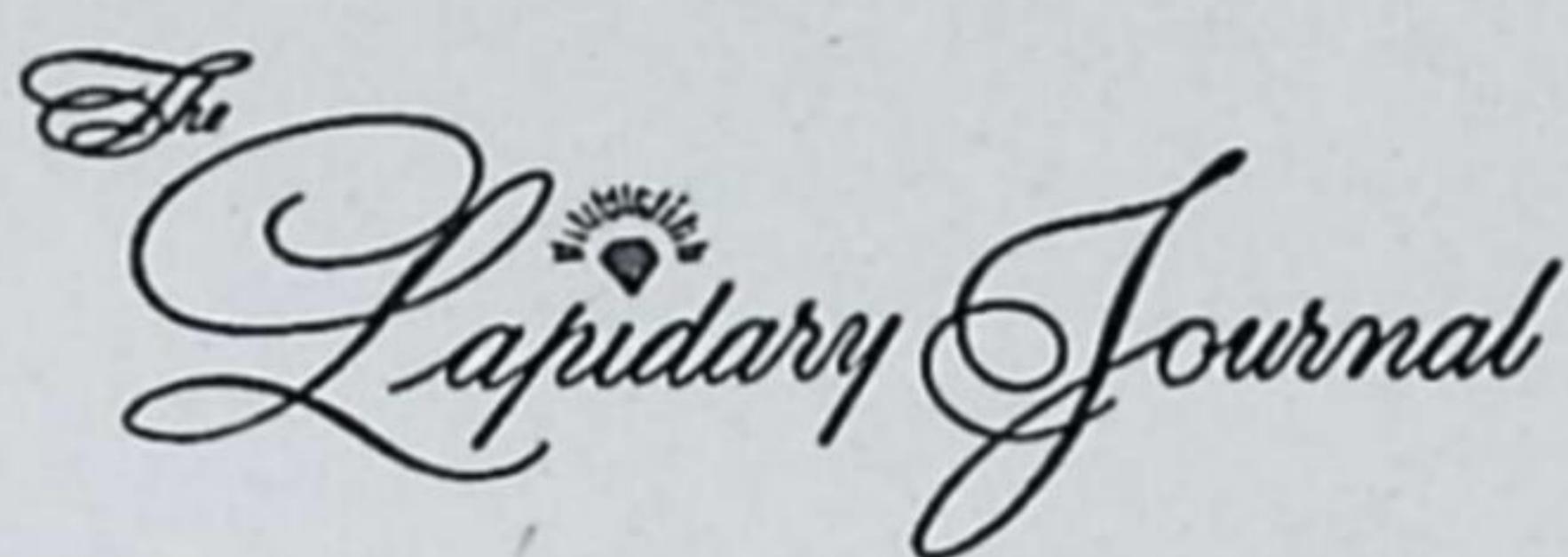
ALLEN LAPIDARY EQUIPMENT CO.

3632 W. Slauson Ave.

Los Angeles 43, California

GENE ALLEN, Proprietor

Telephone AXminster 2-6206



A NATIONAL MAGAZINE
for
THE GEM CUTTER, COLLECTOR
AND JEWELRY CRAFTSMAN

FOURTEENTH ISSUE

PUBLISHED BI-MONTHLY ON THE FIRST OF FEB.-APR.-JUNE-AUG.-OCT.-DEC.

Volume Three

October, 1949

Number Four

TABLE OF CONTENTS

COVER — The United States in Gem Stones by Genevieve Colony. Turn the page for the story.

	PAGE
UNITED STATES IN GEM STONES by Genevieve Colony	240
TAKE YOUR PICK — A Quiz by Adeline Rankin	241
TOURMALINE by Harry L. Woodruff	242
CREATING JEWELRY by Andrew Dragunas	248
REGALITE — A New Gem Material	250
THE FIELD TRIP by Ray C. Mitchell	252
THE EMERALD CUT	256
IDENTIFICATION OF GEM STONES (Part One) by Robert M. Shipley, Jr.	258
FRAMING YOUR GEMS IN SILVER by Joe Stetson	264
THE LAS VEGAS SHOW	268
A FLEXIBLE DIAMOND LAP by George E. Steele	270
PERSONAL FACETS by Lelande Quick	274
THE SAN DIEGO SHOW	278
CALENDAR OF EVENTS	282
ANSWERS TO INQUIRIES	284
THE TWO GREEKS — A Gem Of A Tale (a puzzle) by Lelande Quick	286
THE STORY OF JADE — Book Review	288
UNIQUE ROGUE RIVER FIELD TRIP by D. F. De Voe	290
GEMS FROM THE MAIL BAG	294
BEGINNERS PAGE	296
GEM NEWS	298-300-302
NEWS OF THE SOCIETIES	304
CLASSIFIED ADVERTISING	305-306
INDEX TO DISPLAY ADVERTISERS AND CATALOG LIST	307

Published by LAPIDARY JOURNAL, INC., 7231½ Santa Monica Blvd., Los Angeles 46, California. Address all correspondence to Lapidary Journal, P.O. Box 1228, Hollywood 28, Calif. GRanite 3478.

Manuscripts on lapidary, gem and jewelry subjects, as *contributions*, are solicited. Correspondence should precede submission. Copyright, 1949 by Lapidary Journal, Inc. ALL RIGHTS RESERVED. NO PART OF THIS WORK MAY BE PRODUCED IN ANY FORM, BY MIMEOGRAPH OR ANY OTHER MEANS, WITHOUT PERMISSION IN WRITING FROM THE COPYRIGHT PROPRIETOR.

Entered as second-class matter April 12, 1948, at the Post Office at Los Angeles, California, under the act of March 3, 1879.

Subscription rates \$2.00 per year (6 Issues)
In the United States and Its Possessions
Foreign Postage: 35 Cents Extra
Current Issue and Back Copies of
Volumes 2 and 3 — 50 Cents per
Copy.

Nothing available in Vol. 1, but the first
Issue (at 50c). Volume One (4 issues)
and Volume Two (6 issues) available
bound at \$5.00 each.

Display Advertising Rates
Furnished on Request
LELANDE QUICK *Editor and Manager*
ALETAH QUICK *Circulation Manager*

♦ *United States in Gem Stones*

By GENEVIEVE COLONY

4417 T Street, Sacramento, Calif.
Member Sacramento Mineral Society

I have read that many new ideas, such as an additional gadget for a piece of equipment, a better way of operation, an improved method of mixing or flavoring food, have been created by a so-called mistake, or oversight, which ultimately summed up to an "accidental discovery."

Such is the beginning of my United States Map shown at the Sacramento convention in June and pictured on the cover of this issue of the *Lapidary Journal*. A year or so ago, while putting on the finishing touches to a rather thin slab of Nevada rhyolite (wonderstone) it happened. I broke it! The larger of the two broken pieces was finished. It is now in my slab collection, not a bit the worse for the incident. The smaller piece just laid around and angered me every time my eyes fell upon it.

One week-end, while crossing the Nevada state line, the Nevada boundary highway sign (which is an outline of the State of Nevada) loomed ahead, as if to say: "Here is the solution; retrim the edges just a little, and finish the fragment in the shape of the State from which it originated." Being a little too thin for cabochon work, this pretty little piece of Nevada "wonderstone" became a polished flat in the shape of that state.

That was the first step in a large undertaking. For it then came to my mind: "Why not get a piece of polishing material from each of the 48 states, cut them to scale, and fit them together?" Yes, it was a good idea. But, where could I obtain the material? To whom could I write and what would I ask for? Then the research started.

Gathering all the information possible from the mineral books and publications in my possession. I corresponded with various dealers throughout the country, with Society members and some of the "Old Timers." The response I received was more than gratifying. The personal letters written me by interested people were a great satisfaction indeed. I feel they are my friends and I would like to thank those who made this project pos-

sible, and kept me many times from giving it up, so that it is now in these pages for possible use by others.

A period of approximately eight months elapsed in obtaining the desired native materials. As the pieces would come to me there was slicing to do (if rough); lapping down to the required $\frac{1}{8}$ " thickness (if too thick). In order to trim the thin sections to the shape of the individual state, it was necessary to use a full map tracing, on which each piece was fitted within the specified boundary lines. Many times I thought of the jigsaw puzzles I had pieced together.

Needless to say, the boundary line trimming was a little severe on the corners of the grinding wheels. Not having a re-trim saw that would "cut curves" they were ground on the corner edges of the 320 grinder to prevent chipping. It proved to be a continual process of grind and fit, then fit and grind, until they met as closely as possible. In some instances, it was quite difficult, as we all know there is no flexibility to a piece of stone. In a few cases, for the deep bay or lake outlines, it was necessary to hand-file to obtain the required indentations.

The balance of the operation was just the same as is used on flat slab work. The flats were mounted on a dop stick, sanded on a 220 dry sander, then a 320 sander and finally buffed.

Piece by piece, state by state, it grew. Just a few days before the convention the last state went into place. It was then remounted by glueing on blue window glass. That seemed to be the logical background for the water areas.

After it was ready for presentation it didn't look to me the enormous task it first appeared. The hours of work entailed through the months did not compare in my memory as did the enjoyment over the completed project and knowing that many friends had contributed to its creation.

The following list of states, and the native material used for each, may be of interest:

ALABAMA—OOLITE
 ARIZONA—PETRIFIED WOOD
 ARKANSAS—NOVACULITE
 CALIFORNIA—BRECCIATED JASPER
 COLORADO—ALABASTER
 CONNECTICUT—CHIASTOLITE
 DELAWARE—AGATE
 FLORIDA—AGATIZED CORAL
 GEORGIA—MUSCOVITE-BIOTITE-
 GRANITE
 IDAHO—MOSS AGATE
 ILLINOIS—AGATE
 INDIANA—CORAL LIMESTONE
 IOWA—HORNSTONE
 KANSAS—DENDRITIC AGATE
 KENTUCKY—JASPER
 LOUISIANA—PETRIFIED PALMWOOD
 MAINE—ROSE QUARTZ
 MARYLAND—WILLIAMSITE
 MASSACHUSETTS—RHODONITE
 MICHIGAN—PETOSKEY STONE
 MINNESOTA—THOMSONITE
 MISSISSIPPI—MOTHER AGATE
 MISSOURI—CHERT
 MONTANA—AGATE

NEBRASKA—OPALIZED WOOD
 NEVADA—RHYOLITE
 NEW HAMPSHIRE—SNOWFLAKE
 QUARTZ
 NEW JERSEY—SERPENTINE
 NEW MEXICO—RICOLITE
 NEW YORK—BIOTITE GRANITE
 NO. CAROLINA—UNAKITE
 NO. DAKOTA—OPALIZED WOOD
 OHIO—GEM FLINT
 OKLAHOMA—PETRIFIED WOOD
 OREGON—AGATE (Thunder Egg)
 PENNSYLVANIA—CUPRITE
 RHODE ISLAND—R. I. AMETHYST
 SO. CAROLINA—BARITE
 SO. DAKOTA—ROSE QUARTZ
 TENNESSEE—CHOCOLATE "MARBLE"
 TEXAS—JASP-AGATE
 UTAH—SNOWFLAKE OBSIDIAN
 VERMONT—GRANITE
 VIRGINIA—AMAZONITE
 WASHINGTON—PETRIFIED GINKGO
 WOOD
 WEST VIRGINIA—MOSS AGATE
 WISCONSIN—ONYX
 WYOMING—JADE



TAKE YOUR PICK

By ADELINE RANKIN

Route 21, Box 2105, Paradise, Calif.
 Member Feather River Gem & Mineral Society

The following lists give: (1) the correct spelling, (2) the usual misspelling, and (3) what should be the obviously mistaken spelling of twenty of the words most commonly spelled wrong by those interested in gem and mineral hobbies. Can you choose the correct one?

Correct Answers on Page 292.

A	B	C
1. CABACHON	CABOCHON	CABOSHON
2. AMETHYST	AMATHIST	AMYTHEST
3. FLOURESCENT	FLUORESCENT	FLUORESENT
4. LUMINESCENCE	LUMINISCENCE	LUMENISCENCE
5. FLORSPAR	FLUORSPAR	FLOURSPAR
6. SAPHIRE	SAPFIRE	SAPPHIRE
7. MALACHITE	MALECHITE	MALLACHITE
8. SPODUMENE	SPUDOMENE	SPODUMEN
9. HEMETITE	HEMATITE	HEMITITE
10. PYRITE	PYRRITE	PYHRITE
11. VARISITE	VARICITE	VARISCITE
12. CULINNAN	CULLINAN	CULLANAN
13. ALEXANDERITE	ALEXANDRITE	ALEXANDARITE
14. APATITE	APETITE	APPETITE
15. BORONITE	BORNITE	BORENITE
16. RHODOLITE	RODOLITE	RODOHLITE
17. AXINITE	ACSINITE	ACCINITE
18. CRYSOCOLLA	CHRYSOCOLLA	CHYSACOLLA
19. BERRYLIUM	BERYLIUM	BERYLLIUM
20. LAPADARY	LAPIDARY	LAPIDERRY

◆ *Tourmaline*

By HARRY L. WOODRUFF

1018 Vermont Ave., Washington, D.C.

When I was invited by your committee to speak at this convention they not only conferred a great honor upon me but also did a very gracious act by allowing me to choose my own subject. (This paper was delivered at the Sacramento Convention on June 24th, 1949. Ed.)

In choosing the tourmaline I thought it might be interesting to the rockhounds as it is a gemstone comparatively easy to facet and some varieties lend themselves nicely to cabochoning and produce some very nice cat's-eyes. Tourmaline offers a very interesting study in color and in many ways is different from most other colored stones. They have long been a favorite of mine in the colored stone list.

In point of age they are somewhat newer than some of the old Biblical stones. We do not find them mentioned as one of the stones supposed to make up the breastplate of the high priest Aaron, who was a brother of Moses. The stones that composed the breastplate were supposed to be approximately three inches square and that fact alone most likely precluded their use as a tourmaline of good quality of this size would be most rare. The name of the species tourmaline was taken from the Singalese word "turmali" and was first used when a shipment came to Amsterdam from Ceylon in 1703. The island jewelers no doubt confused the yellow variety with zircon, which they somewhat resemble and with which they are found.

Achroite, the white variety, comes from a Greek word meaning 'without color'. It is usual to speak of a white stone as colorless. Logically, since such a stone transmits with no abatement the whole of the visible spectrum, it would be more correct to call it full of color. On that principle a colorless stone would be black.

Schorl, the black variety, was derived from an old German mining term. It was used as a prefix for conspicuous minerals associated with the ore being exploited.

Schorl was originally applied to hornblende as well as to black tourmaline but was finally restricted to the latter.

Green Tourmalines were introduced into Europe in the 17th century from Brazil and were known as Brazilian Emerald. General ignorance of the character of minerals was prevalent at this time and the tendency was to group stones together according to their color, designating the different kinds by local names or locality prefixes.

Siberite, the violet-red variety, takes its name from Siberia where it was found.

Indicolite, the indigo blue variety, has been named on account of the close resemblance to that color.

Rubellite, the rose-red variety, was so named because of its resemblance to the ruby.

The glorious galaxy of colors displayed by tourmaline is not surpassed by any other gemstone, not even excepting the corundum with its wide range of color. The remarkable color range seen in tourmaline should not be surprising when the complexity of its composition is considered and a study of the tables of analysis carefully gone over. The question of color is a very interesting one, particularly when the varying colors of the lithia tourmaline are concerned. The colors of the iron and manganese varieties depend on the amount of iron present and pass from colorless specimens from the DeKalb through all the shades of brown to black varieties found in Piedmont. The lithia tourmaline containing more or less manganese gives us red, green, blue and colorless varieties. The shades of color do not appear to depend on the absolute amount of manganese present but rather on the ratios existing between that element and iron. When the ratio of manganese is to iron as one is to one there is produced the colorless, pink, or very pale green stones. An excess of manganese produces the red varieties while, if iron is in excess, various shades of green and blue will

New Fall And Winter Sales Catalog

Our new Fall and Winter Sales Catalog is now available. It consists of 48 pages containing 102 illustrations. Dealers who sell \$10.00 or \$10,000 worth of jewelry need this book. When you have it before you your needs can be filled from over 250 items—all of them at the best possible prices consistent with quality. This big useful catalog mailed immediately to anyone for a 3c stamp.

★ ★ ★

Our catalog contains a valuable article on cutting tiger eye, the stones that "sell themselves." Read HOW TO CUT EYE STONES FROM TIGER EYE.

★ ★ ★

WE CAN SUPPLY YOU WITH THE FOLLOWING:

NECK CHAINS (ten choices) — BULK CHAIN — FANCY NECKLACE CLASPS — EARWIRES — RING MOUNTINGS — PENDANT MOUNTINGS — RING SHANKS (22 designs) in sterling, 10K and 14K GOLD — BEZEL WIRE — JUMP RINGS — LOCKET LOOPS — JOINT WIRE BAILS (three sizes) in gold filled and sterling — FINE SILVER — SILVER SHEET — SILVER SOLDERS and GOLD SOLDERS — SILVER WIRE.

FLUX — ABRASIVE GRAINS — CERIUM OXIDE (Optical Grade) — TRIPOLI — RHODES FELT WHEELS — GRINDING HEAD — STANDARD GUIDE STONE GAUGES (brilliant, heart and cross, costume ovals, ring ovals and cushion) — SOLDERING EQUIPMENT. DIAMOND POWDER — DOPPING WAX — FELKER DIAMOND SAWS — TIN OXIDE.

CUT HEARTS — PREFORMED EYE STONES — TIGER EYE (golden, blue, blue-green, red and fancy) — BRAZILIAN CARNELIAN AGATE — THUNDER EGGS — SNOWFLAKE AND BLACK OBSIDIAN — HOWLITE — EDEN VALLEY WOOD — SWEETWATER MOSS AGATES — MONTANA MOSS AGATE — TURRITELLA AGATE — JADAG.

The GEMINLAP MART 4604 SOUTH 49TH STREET
MILWAUKEE 15, WISCONSIN

Telephone—Evergreen 3-4241 for appointment

result. The color of tourmaline therefore is not due to the mechanical intermixture of pigments but is a property of the substance of the mineral itself and even in the darkest crystals is distributed with perfect regularity.

It may be supposed that the fundamental molecules mentioned above have each their own characteristic color and that the different colors of the isomorphous series of minerals known as tourmaline are due to the association of these molecules in different relative proportions. Crystals of tourmaline may be of one color throughout or differently colored in different portions. Prismatic crystals colored rose-red at one end and green at the other are not rare. Also of interest are the crystals from Brazil, Chesterfield, Massachusetts, and other localities in which there is a red central portion enclosed by a green shell. Tourmalines from California are the reverse, showing either yellow or green centers with red on the outside, the transition from one color to another being sharp. Some interesting examples are varieties from the Island of Elba. Some of these are uniformly white with black ends and are called "niggerheads" by the islanders; some are the opposite, having white ends and black in the middle. Some fine green and red specimens are found in the province of Minas Geraes, Brazil. The deep red rubellite comes from Siberia. The yellow and brown comes from Ceylon and Corinthia, Austria. Pink is also obtained from the Island of Elba. Achroite, the colorless variety, is rather rare although commoner in California than in other tourmaline localities and was first found in Switzerland.

Tourmaline may be divided into the following three different types, each of which grades into the other two with no well defined boundary intervening between them.

(1) Alkali tourmalines, containing a considerable amount of sodium, potassium or lithium.

(2) Magnesium tourmalines, containing much magnesium.

(3) Iron tourmalines, containing much iron.

No tourmaline has all the elements indicated and those which do occur are always present in variable amounts and tend to make the composition more complex. Bauer lists something like 13 or 14

different elements in tourmaline. The finest gem material is to be found in the first type, Rubellite, for example, is a lithia tourmaline. Colorless and brown stones are in the second type and the third type consists of the most common tourmalines which are black and opaque.

The peculiar combination of colors shown by tourmaline is obtained by the different or varying amount of the constituent elements in varying proportion and not by the addition of some added oxide as in ruby, sapphire and most other colored stones. We have a similar condition in the garnet group but the color range is not so large and the result produced is based on a constant ratio of their valances rather than a varying amount of elements. The different chemical formula in garnet produces one solid color and tourmaline crystals show several different colors in one crystal. The noteworthy feature of this constitution is that the atoms replace one another regardless of their normal valances. The only ratio that is constant is that of boron to silicon, namely, one to two.

To the crystallographer tourmaline is one of the most interesting of minerals. It crystallizes in the rhombohedral division of the hexagonal class and the two ends of the crystal are different in character. If they are terminated at both ends the development is often obviously different at each end suggesting a directional character in molecular arrangement termed polarity, which is borne out by other physical properties. In its pyroelectric property it transcends all gem stones and can be strongly electrified by rubbing with a cloth. This property, although of little diagnostic value in the case of a cut stone, is of considerable scientific interest because of the evidence that it adduces of the peculiar crystalline symmetry pertaining to its atomic arrangement. A peculiar characteristic feature of tourmaline is that the arrangement of the faces at one end of the crystal differs from that of the faces at the other end. Such crystals are said to be hemimorphic.

Hemimorphism is rarely very distinct for the crystals, as a rule, are attached at one end to the matrix and terminal faces develop only at one end. Doubly terminated crystals may be readily distinguished by the hemimorphic development from any other mineral which they may resemble in appearance. The crystals are

THE 1950 REVISED EDITION OF GRIEGER'S "ENCYCLOPEDIA AND SUPERCATALOG OF THE LAPIDARY AND JEWELRY ARTS"

\$1.00 PER COPY

This is a 192 page book 9"x12" in size. There are at least 60-pages of instructive articles by authors of national fame. There are new articles by Emil Kronquist and Louis Wiener on jewelry making. The 15-page article on jewelry casting by the LOST WAX METHOD using the NEW KERR HOBBYCRAFT CASTING UNIT is alone worth \$1.00. "ROCK DETERMINATION SIMPLIFIED" by Mr. E. V. Van Amringe with illustrations and charts helps you to identify your field trip discoveries. Two excellent field trips are mapped. Everything you need in MACHINERY, TOOLS, SUPPLIES, and MATERIALS is illustrated, described, and priced for your convenience. VISIT OUR SHOP AND SECURE YOUR COPY OF THIS UNIQUE BOOK.

Send Postpaid in U.S.A., Its Territories and Canada for Only \$1.00
READ THESE REMARKS BY THOSE WHO PURCHASED THE FIRST EDITION: "I would still buy it at \$3.00 to \$5.00 as it contains as much if not more meaty information for the lapidary and jeweler than any of the books on the market selling in that price range." "It is better than most lapidary handbooks." "It is the only satisfactory catalog of lapidary supplies and materials that I have ever seen. It is superbly illustrated and superbly printed."

The SUPERCATALOG contains many bargains that will more than save you the \$1.00 paid for it. Here are a few outstanding offers.

PURE TIN OXIDE—\$2.00 per lb., 3 lbs. for \$5.00, 5 lbs. for \$7.50.

COMPLETE STERLING CHAINS—\$2.95 per dozen, plus 20% Federal Tax.

NECKLACE CLASPS—50c per dozen: **LOCKET LOOPS**, 50c per dozen:

BRACELET CLASPS—\$2.00 per dozen: **CLIP EARWIRES**—\$1.75 per dozen:

SCREW EARWIRES—\$1.50 per dozen (ALL STERLING).

BEGINNERS BONANZA BARGAIN—African Tiger Eye, Chilean Lapis, Brazilian Agate, Assorted Jaspers, Agates, and Petrified Woods. Total of 5 lbs. cutting material for \$2.40, plus postage on 7 lbs.

BEGINNERS SLAB COLLECTION—Slabs of Rhodonite, Tiger Eye, Brazilian Agate, etc. 25c sq. in. assorted slabs of cutting material \$3.00, plus postage on 1 lb.

Be Sure To Visit Our Completely New Outdoor Mineral and Rough Gem Department. All Prices F.O.B. Pasadena

RUTILE RAINBOW GEMS

RUTILE IS THE GEM OF THE HOUR—IT IS NOW A REALITY

After years of experiments, synthetic Rutile is now available in cut gems of unbelievable beauty. This magnificent substance is known as "TITANIA." WE ARE VERY PROUD OF THE FINE QUALITY GEMS produced by our cutters. We will mount TITANIA GEMS in any type mounting and GUARANTEE A PERFECT JOB.

Our new SUPERCATALOG listed above gives you all the facts about TITANIA GEMS and ILLUSTRATES MOUNTINGS ESPECIALLY SELECTED for them. An article tells the story behind this AMAZING DISCOVERY.

Be the first in your community to own one of these beautiful new Rainbow Gems.

DEALERS' INQUIRIES SOLICITED

Everyone to whom you show this new gem will wish to purchase one of them. Our SUPERCATALOG tells you of our discount plan that will permit you to own one of these new gems at no cost to yourself. OUR RAINBOW GEMS ARE CUT FROM SELECT NATIONAL LEAD COMPANY BOULES.

Griege's

Open on Friday and Saturday only 8:30 AM-5:30 P.M.
Monday thru Thursday open by appointment only

1633 EAST WALNUT STREET
PASADENA 4, CALIFORNIA

Phone SY. 6-6423

usually prismatic in form, the prism faces being striated and, if cut at right angles to the common direction of the edges of the prism faces, would be triangular in shape. Hemimorphic development is shown not only by the number of terminal faces but also by the number of prism faces. For example, some crystals show only three faces instead of six, the number usually present on crystals belonging to the hexagonal system, and again some crystals display instead of twelve only nine faces, this being a combination of a hexagonal prism with a trigonal prism. This feature is so characteristic of crystals of tourmaline that they may be recognized with a certainty by it alone even when no terminal faces are present. Since the chemical composition varies considerably from stone to stone, some variation in physical properties is only to be expected.

The indices of refraction range from 1.620 to 1.657, the amount of birefringence varies from .014 to .019 for green and .017 to .018 for paler stones. The color dispersion is not large, amounting to only .017. The specific gravity has rather a larger range from 3.01 to 3.06 for red, 3.04 to 3.11 for green, about the same for brown, 3.05 to 3.11 for blue and 3.11 to 3.20 for the black which are opaque and carry much iron. The hardness is about $7\frac{1}{2}$; it will just scratch quartz and in turn is scratched by emerald which is 8 on Mohs scale. The common vitreous lustre of tourmaline is much heightened by polishing and all tourmalines are susceptible of a good polish.

Tourmaline has pronounced dichroism, the phenomenon taking the form not of a change in color but of a more or less complete absorption of the ordinary ray. Brown tourmaline plates cut so that the direction of the prism edges lies in their plane transmit the extraordinary ray only. Before the invention of the nicol prism they were used to produce plane polarized light. The dichroic property has a most important bearing on the proper direction for cutting tourmalines. Unless the stone is very light in tint, it must be cut so that a facet perpendicular to the table is at right angles to the optic axis of the crystal (that is to the direction of the edges of the crystal faces) because otherwise little light would emerge from the stone and it would appear dull and

lifeless.

Dichroism is the result of double refraction. Therefore no stone that is isotropic can show dichroism but it does not follow that a stone that shows no dichroism is singly refractive because many stones that are doubly refractive are colorless or completely transparent due to the complete blending of all the colors or lack of some metallic oxide. Some other features of the mineral are exceptional. Crystals of tourmaline are not changed in hardness by the change in color in the same crystal. A change in color in the same crystal has no effect on the crystal faces.

Tourmalines possess no distinct cleavage and the fracture is uneven to imperfectly conchoidal. The mineral is very brittle and many of the crystals are penetrated by numerous fissures and irregular cracks which make them unfit for gemstones. The tourmaline is not affected by heat and it is possible to heat it to a red heat without any noticeable bad effect. Imitations of tourmaline are not common as the color and lustre are not readily obtained with glass. However many tourmalines are sold as other gemstones that they closely resemble. Brazilian emeralds and Brazilian peridots are green tourmalines. There is a host of others too numerous to mention. The red stone presented to Empress Catherine II by King Gustavus Adolphus of Sweden in 1777, long thought to be a ruby, is a pink tourmaline of indifferent quality. About the size of a pigeon's egg and weighing 250 metric carats, the stone is now in the diamond treasury in Moscow.

THEY STRUCK OPAL

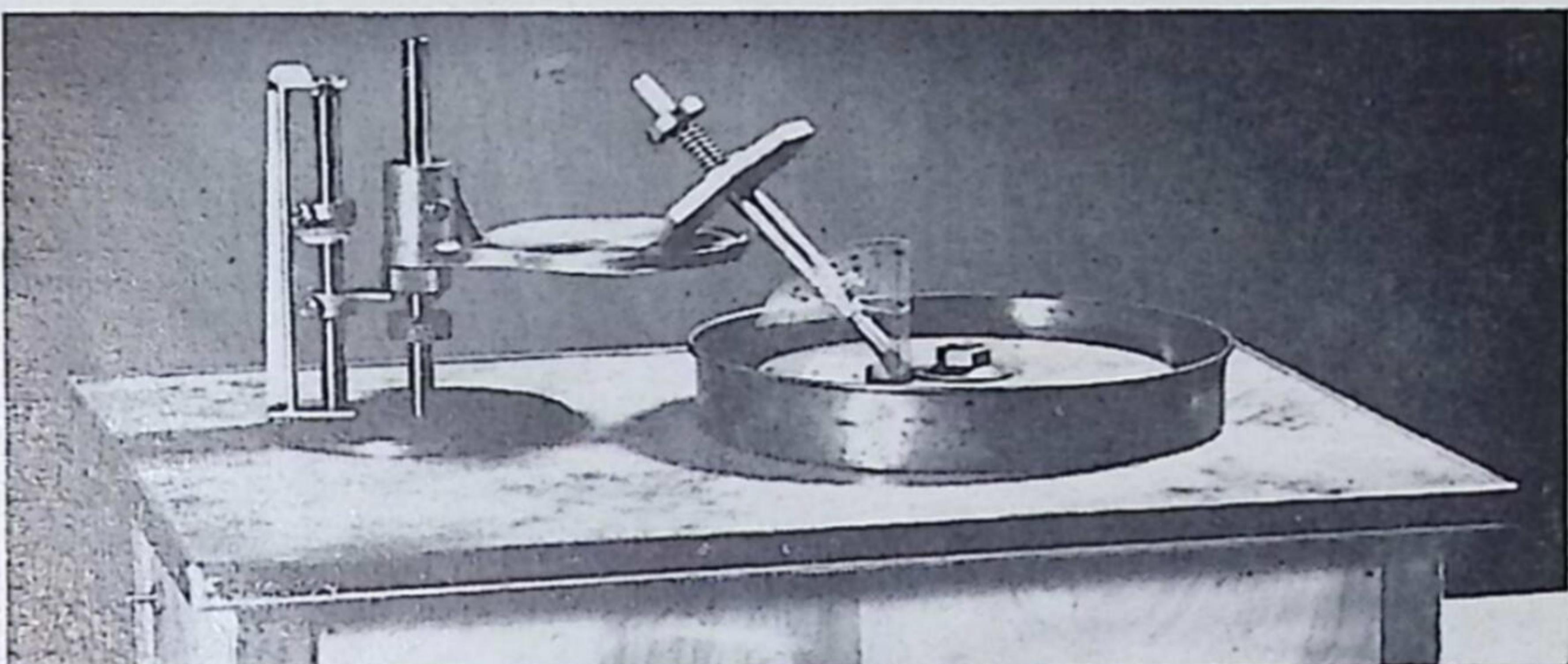
The book opal lovers have been waiting for

Printed in Australia . . . *They Struck Opal* is a fascinating and true story of the Australian opal fields. Written by E. F. Murphy, a well known opal buyer. For many years the undisputed king of opal mining personalities who flocked to the opal fields from the jewel centers of the world. 191 gripping pages, 3 full color plates worth the price of the book alone. The finest color plates on opals we have ever seen. Showing 19 different types of Australian opal.

Price \$4.00 postpaid
plus 3% Sales Tax in California

The LAPIDARY JOURNAL
Box 1228 Hollywood 28, Calif.

A NEW TOOL and a NEW STORE Welcomes You



THE O'BRIEN FACETING HEAD
(Patent Pending)

We have built a new store and plant at 1116 N. Wilcox Ave. in the heart of Hollywood

OFFERING

Gems—Faceted and cabochon.
Gem rough—for facet and cabochon cutting.
Silver and findings.
Tools and equipment for the jewelry craftsman.
Lapidary tools, equipment and supplies.
Custom slabbing, faceting and cabochon cutting.

Drop in and cut a few facets. You will enjoy the ease and simplicity of cutting with the O'Brien Faceting Head. This head was designed for YOU, ESPECIALLY those of you who have thought faceting was too difficult or too mechanical.

Drop in and get acquainted—look over our stock—try our equipment—bring in any stones you have had trouble with . . . we'll help you if we can.

Open weekdays, Monday through Saturday, 9 till 6.

Tuesday and Friday evenings till 9.

Sundays by call, if you can't make it any other time.

• • •

THE O'BRIEN FACETING HEAD

Standard Model \$39.50 Professional Model (with vernier) \$44.50

Prices F.O.B. Hollywood, Calif. Shipping weight approximately 7 lbs.

Send a postal today for your copy of our literature, gem and material prices.

O'BRIEN LAPIDARY EQUIPMENT CO.

1116 N. WILCOX

GLadstone 3986

HOLLYWOOD 38

Dealerships Open — Write for Details.

◆ *Creating Jewelry*

By ANDREW DRAGUNAS

92-16 Whitney Ave., Elmhurst, N.Y.
Author of *Creating Jewelry For Fun and Profit*

Two general methods are usually used to teach the making of jewelry: 1. The beginner is given increasingly difficult copy work until craftsmanship is mastered. Design is considered a separate subject. 2. The beginner is presumed to know design and draws a sketch of what he wants to make. Craftsmanship is learned as a result of executing a number of designs. Both methods have their good features. Can we combine them?

Creation of distinctive jewelry requires coordination of three major activities: 1—Experience with materials, 2—Experience with tools. 3—Exercise of imagination. Experienced craftsmen who feel that they are weak in design will do well to study "Bauhaus" methods. The idea in brief is to "re-examine tools and materials." A beginner is on the right track if he is convinced that all phases of a craft should be developed at the same time. The important thing is confidence in one's own creative ability. According to W. H. Kilpatrick, the eminent philosopher, *the average person has more creative ability than can possibly be put to use.*

It is important to have a clear understanding of the meaning of certain terms. Experience with materials means to have them actually in your hands before a design is even thought of. Knowledge of their existence or purchase when needed to execute a specific design is not the same thing. Tools should be experimented with, one at a time, to get a thorough knowledge of what they can and cannot do. Creative imagination means to contemplate, ponder, to record suggestions after each experience. Time must be devoted to it at the *right* time. Creative imagination develops only through effort. It may be compared to physical exercise. No one ever developed muscles by reading or by watching some one else exercise.

A reasonable amount of patience is most important. Don't attempt something beyond your ability. That is the principal reason for the crudeness of so

much craft work. It is only human, of course, to try the difficult. But if your goal is a distinctive style combined with competent craftsmanship, success is more likely if one advances from the simple to the complex. In this connection, please do not disdain simple things because they are simple or have been done before. The important thing is that *you* experience fundamentals for yourself.

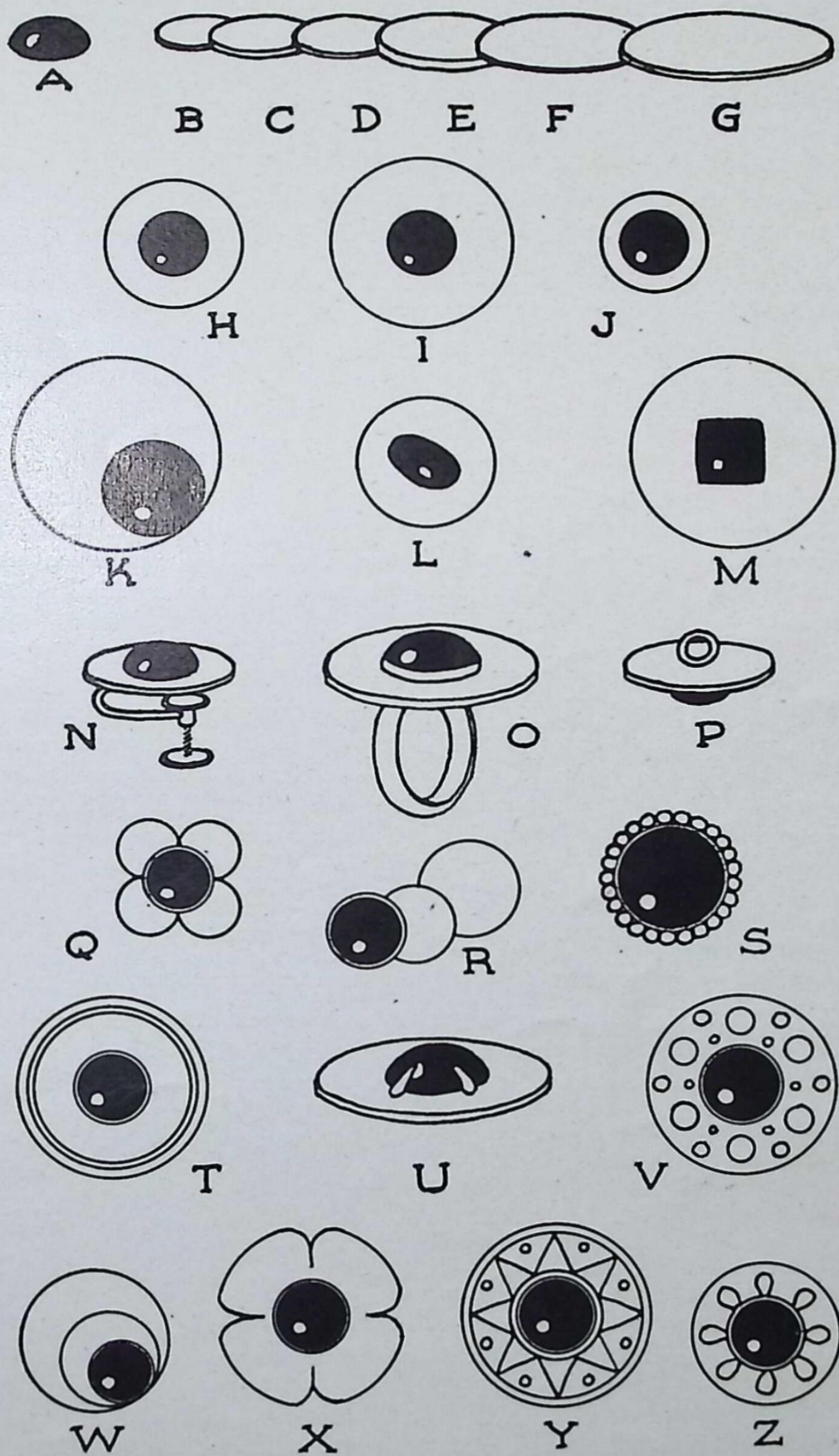
Let us see how this method might work for an enthusiastic beginner. As soon as an acceptable cabochon has been cut (A), creative imagination should be exercised. Stones are usually mounted in metal so some copper, brass or silver should be obtained. Silver is recommended because it is easy to work with. To keep this problem simple, suppose we confine ourselves to disks and buy an assortment of six or more in various thicknesses as well as diameters (B, C, D, E, F, G).

Polishing one of these disks should be our first experience. Polish means mirror brightness. Place the stone on various disks (H, I, J, K). Is it better in the center (H)? Off center (K)? Would a differently shaped stone look better (L, M)? Does this experience suggest practical applications, such as, earrings (N), rings (O), buttons (P), etc?

It takes much less time to do all this than it does to describe it. Let's see what facts have been established. You will have to find satisfactory answers to questions somehow. It is better to make mistakes than to be told. 1. The reflective character of metal is an element in jewelry design. 2. Proportion between area of metal and stone is important. Which should predominate? 3. How thick should metal be?

When we start to complete an ornament we shall be obliged to use tools. If we decide to set the stone in a bezel, we shall probably use a soldering process. Soldering should suggest further ornamental possibilities (Q, R). If we make a finger ring, we will probably have to use a mandrel which should suggest borders (S, T). If we fasten the stone

(Continued at bottom of Page 250)



◆ *Regalite - A New Gem Material*

A short time ago a gentleman came to the *Journal* office with some of the prettiest green material we have ever seen. "You are gazing at the first jadeite found in America" he said. I believed him for the material looked like "quality" to me. To enforce our belief he showed us written reports from one of Los Angeles' leading assayers in which the material was identified as "true jadeite".

However, so many green materials have been paraded as some type of jade that we suggested that we give it the specific gravity test. When we did so (as outlined on Page 196 of the August 1949 issue of the *Journal*) we found it to be quartz. Nothing daunted our friend then took it to other authorities who had refractometers and the reading was also for quartz. And thus a bubble exploded.

But the more we looked at the lovely material, with its great variety of colors, ranging from every shade of green and green and white to pure white itself we thought "This may be quartz but then at least 90% of all material being cut by amateur lapidaries today is quartz and this is really some of the loveliest quartz we have ever seen." Subsequent cutting revealed that it took a very high polish, but with about the same difficulty as jade.

We immediately urged the man to market the material and he is doing so. He is also preparing to enter the gift novelty business on a large scale and make lamps, ash trays, book ends etc. At our further suggestion he agreed to make the material available to the amateur lapidaries and we feel confident that the shows a year hence will contain many things and fine cabochons made from *REGALITE*. That is the name he gave the material—*REGALITE*; an apt name we believe for it is truly a *regal stone*.

The rockhounds need a new material for new materials create new interest. We believe *REGALITE* has such a diversity of color and interest, with the added virtue of being hard, that it will swiftly come into popular favor; particularly with people who are looking for quality solid-color material. We imagine that spheres and book ends made out of the white material with the green veinings will compare favorably in appearance with jade which people can seldom afford or get in large chunks.



(Conclusion of article on Page 248)

with prongs (U), the drill should suggest openings of various kinds (V, W). If we use files to clean up, other possibilities should suggest themselves (X, Y, Z).

This, in brief, is how the creative process works. We can honestly arrive at the same designs as illustrated if we

work with the same simple elements. That is perfectly all right and easily understood when we realize that inventors sometimes arrive at identical solutions without ever knowing that the other fellow was working on the same problem. If we persist, individuality will assert itself.

PRECIOUS METALS

and

JEWELRY FINDINGS *for*

Every Type of Need

Consult listing of products at right

INQUIRIES INVITED

SERVICE and QUALITY Since 1907

Sterling Silver Sheet:
All thicknesses and
widths.

Sterling Silver Wire:
Round, Half-Round,
Square, Triangular,
etc., in all sizes.

Sterling Silver Fancy
Wires: Bezel, Bead
Wire, Pearl Bead
Wire, Twist Wire,
etc.

Sterling Silver Find-
ings: Chain — Ear-
Wires — Tubing —
Hollow Balls, etc.

Nickel Silver Find-
ings: Pin-stems,
Joints, Safety
Catches.

Silver Solder Sheet
and Wire: Silver
Solder Flux.

Karat Gold Sheet,
Wire, Solder and
Findings.

WILDBERG BROS. SMELTING & REFINING CO.

San Francisco 2, Calif.
Department "G"
742 Market Street

Plant and Smelter
South San Francisco, Calif.

Los Angeles 14, Calif.
Department "G"
635 South Hill St.

"EXPERT FACET CUTTING" *The Goal of All Lapidaries*



All styles of facet cutting from the simplest to the most complex, can be finished with the Sperisen professional type faceting unit. A completely universal precision tool.
(Patent Applied For)

No dops required — no stones to change — So simple a child can operate it.
(No. 7 of a series)

Illustrated circular and price list available.

FRANCIS J. SPERISEN
LAPIDARY

166 GEARY STREET

SAN FRANCISCO 8, CALIFORNIA

◆ *The Field Trip*

By RAY C. MITCHELL

2753 Hawthorne St., Franklin Park, Ill.
Chairman of Marquette Geologists Association

In the interest of an increased enjoyment of all field trips, the writer believes that this article is still timely. Most of it appeared in the Editor's column "The Amateur Gem Cutter" in the April, 1948 issue of *Desert Magazine*. It is written in a humorous vein, but carries some seriously important thoughts. As field trips are probably the most enjoyable and beneficial phase of the rock hound's activity, it behooves us to maintain our standards of field behavior on a high plane. While we are unquestionably the finest, most generous and warm hearted group of hobbyists extant, we are still human, and occasionally acquire or develop a trait that can be generously described as unsocial.

With the assistance of a number of our local rock people, I have listed some individual traits of field behaviorism. Their elimination would result in a much enhanced enjoyment of the outdoor phase of our interest. A great majority of us possess but a few of the traits listed, mainly in a minor degree, but we all have encountered individuals who are heavily imbued with some of the habits listed. It requires but one such individual to spoil an otherwise perfect field day.

Following is the list. If the shoe fits we'll tie it for you:—

THE BLASE SOPHISTICATE—He has seen everything. There's no material worth picking. He usually includes a superior criticism of the location, organization of the trip and prospecting technique. He took little or no part in planning the trip but expects to assume a major part in supervising the day's activities.

THE "OVER THE RIDGER"—The specimens underfoot are pretty good but he just knows they will be better over the next ridge (or arroyo, canyon, valley, gully, etc.). This state of affairs can be carried over any number of obstacles, wasting valuable picking time and finding the group far from transportation and with few specimens at sundown.

THE LONE RANGER—Starts developing a shifty eye several miles before arrival at the site. Disembarks and disappears surreptitiously. Returns late in the day, frequently loaded with choice material. "Don't we wish we had gone with him?" he says. He is evasive as to the exact location where the best material was found.

THE "CUT IN FRONTER"—Gives you corns from stepping on his heels. Lets you select a site and very actively helps you look it over. Frequently finds gorgeous specimens right under your nose. This type has been known to disappear without trace, especially on sagenite locations.

THE CROSS COUNTRY PROSPECTOR—Plans a week's coverage for a one day trip. Thinks nothing of hiking 15 miles in one direction. He's usually brought in about midnight by a searching party and he has lost or discarded most of his material. He never finds much anyway because he travels too fast.

THE OVERLOADER—This born optimist wants to take everything along. His motto is, "You can always throw it away." Has leanings toward outsize specimens and never has enough specimen bags. His car has broken springs and he complains of poor gas mileage. His clutch slips on the hills so that persons riding with him must crowd into other cars for the return trip. He should have a dump truck. He usually has the largest rock garden in town and is usually well liked in spite of the foregoing.

THE OTHER-TRIPPER—Compares the current location to others he has visited. They were all better. Fills the day with stories of fine material available elsewhere. Never helps plan a trip and takes home very little material.

(Continued on Page 254)

Announcing . . .

A New Gem Material

REGALITE

The King of Gem Stones

The following paragraphs contain great news indeed for the amateur gem cutter. Here is a new material with a hardness of more than 7. It occurs in every color the same as jade. The material is jade-like in many characteristics. For some time several authorities have thought it *was* jade. One very prominent West Coast authority gave a definite written opinion, after his assay, that it was *true jadeite*. This analysis is on file and will be shown to anyone. However, the specific gravity and refractive index is the same as quartz although the mineral content compares to Dana's listing for jadeite.

REGALITE is excellent material for spheres, book ends, ash trays, beads, buttons and any gem novelty.

REGALITE takes a very high mirror-like polish with cerium or tin oxide, on either leather or felt buffs.

REGALITE is a hard material. Why spend your talent or skill on soft materials—to say nothing of your time and money?

REGALITE is as enduring as Time itself. It is as beautiful as chrysocolla, and comes in an odd shade of blue-green like amazonite. White REGALITE defies anyone to distinguish it by naked eye alone from the finest white jadeite. This is also true of the white material with apple-green veinings.

Rough material in beautiful shades of green, green and white and pure white. Sent postpaid for \$2.25 a pound. Other shades will be offered later.

Expertly slabbed material for cabochons 50c square inch, postpaid. California purchasers add state sales tax.

Add 20% Excise Tax to All Orders

Until an adequate supply is mined and cut, this material is offered exclusively by us. Meanwhile dealers' inquiries are invited.

Satisfaction guaranteed on all purchases of REGALITE.

Money will be refunded promptly to purchasers who are not completely satisfied with their purchase.

ROYAL GEM COMPANY

1517 CROSS ROADS OF THE WORLD

HOLLYWOOD 28, CALIF.

THE PESSIMIST—"Looks like rain." "Too much dust to see specimens." "Could have bought a load of stuff for the cost of this trip." "Material here is third rate." "Wouldn't climb that hill for a one-ounce benitoite brilliant." "Sunset is probably beautiful—but we came for rocks." Wonders why he came along in his business clothes—and so do we.

THE FIELD ASSAYER—Has so much equipment he can't carry any specimens. Wastes the day digging and breaking useless material. Ruins his clothing with reagents. Holds up the group while running tests. The gang must gather around as a windbreak while he uses a blowpipe. Makes world-shaking field discoveries that simmer out under proper tests.

THE LOCATION LOSER—He has a good specimen eye. Out two hours and halloos his way back with several fine pieces of material. Spends the rest of the day trying to relocate the deposit with the help of the entire group. Usually a swell guy but should be assigned a keeper on all trips.

"ALONG FOR THE RIDE"—A friend or relative of one of the rock-hounds. Always thought they were peculiar and can now understand why. Not properly clothed for the trip. If a lady she tears nylons and wears high heels. She gets hungry and thirsty once an hour. Spends hours lugging around junk and asking, "Is this anything?" Complains of flies, dust, sun, hills, mud, wind, etc. Is hysterical about snakes. At the end of the day is not speaking to the person who brought her along.

THE LOCATION BROADCASTER—While not a trip spoiler is still a prime pest. Uses no discretion in protecting the location. Tells the world about every good spot with no consideration of property rights or ownership of the land. Soon has the location overrun with collectors and it becomes closed to collecting. Many city collectors do not understand that rural property is just as subject to trespass as city property. Locations should be protected to the extent that permission is granted beforehand where prospecting is to be done on private land.

(Editor's Note: To the author's fine list we would like to add the plain unadulterated crook. He examines everybody's load, looks it over carefully and says, "This is no good, no use hauling it home, it's dog-rock." Then he tosses it over his shoulder. When the unwary rockhunter gets out of sight he hastily gathers the really fine specimens he has discarded and parks them in his own sack. Months later, when his fine cabochons appear at the society meeting, he says "Yeh, some nut threw that away and I picked it up." Such folks should be made to swallow a geode whole.)

THE STORY OF JADE

By Herbert P. Whitlock and Martin L. Ehrmann

The newest book and the world's best book on Jade. Published on September 8th this book has caused more "ohs" and "ahs" than any gem book in our memory.

THE STORY OF JADE contains 179 plates in full color and black-and-white. It contains 220 pages 11 x 7", printed in large readable type and on very heavy glazed stock.

THE STORY OF JADE gives more lapidary information than any other book on the subject; tells where jade comes from (with maps); tells you how to interpret the symbolism of the carvings on pieces you may own and thereby gauge its age.

THE STORY OF JADE will be loved by book collectors and treasured by connoisseurs of jewels and gems.

THE STORY OF JADE will be one of those books owned by every library in America. Why not put it in *your* library.

\$12.50 postpaid

(California purchasers add sales tax)

We will send this book on approval with no advance payment to any *subscriber on our list*. We will send it C.O.D. to anyone else with a money back guarantee that it will please. Or we will send free literature about the book. See the review on Page 288.

THIS IS THE PERFECT CHRISTMAS GIFT — KEEP IT IN MIND

LAPIDARY JOURNAL

P. O. Box 1228

Hollywood 28, Calif.

DESERT SCENIC STONE

That is the name of the new gem and decorative material selected by the judges at the Sacramento convention in a contest sponsored by NEW MEXICO MINERALS. The \$50 merchandise prize was won by Mamie Cavin, 1768 Valley Ave., Baker, Oregon.

This was the most popular material at Sacramento

It is ideal for novelties such as book ends, pen stands, paper weights, spheres, lamp bases, urns, ash trays, buttons, etc.

It is a highly interesting, varied and colorful cabochon material. Sold in the rough at \$1 to \$2.50 a pound according to configurations and hardness.

Sold by the slab at 25c and 35c a square inch according to quality.

WE BUY — SELL — TRADE

NEW MEXICO MINERALS

Guy M. Shockley

2822 North Second St. P.O. Box 6156—Station B

Edwin K. Kraul

Albuquerque, N.M.

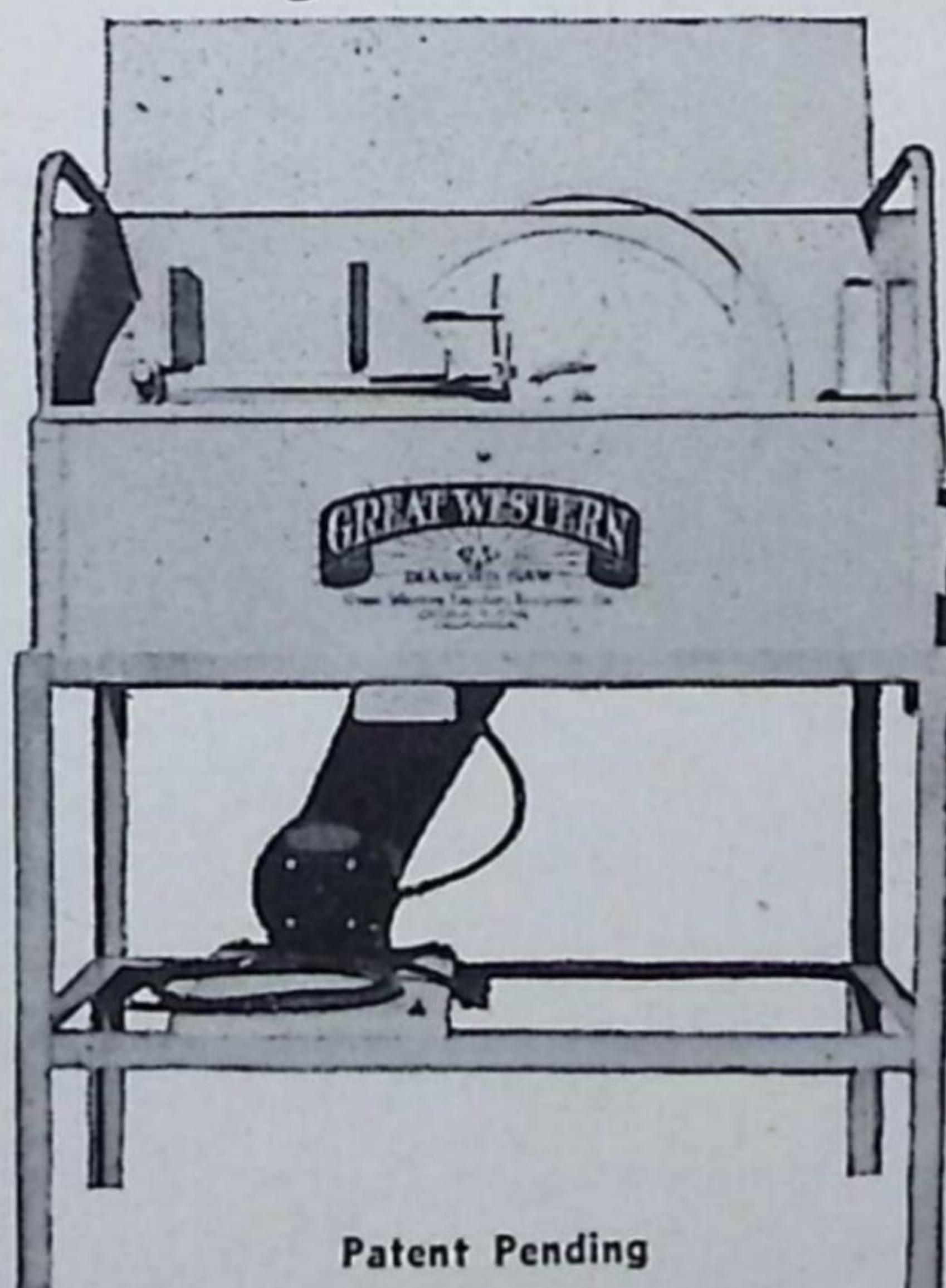
Yep! In the good old U.S.A.

Lapidary Equipment
Lapidary Supplies
Silver Mountings
Sawing

MAIL ORDERS HANDLED PROMPTLY
*If it's found in New Mexico and we don't have it
WE'LL GET IT FOR YOU*

Geiger Counters
Cutting & Polishing
Mineralights
Specimens

Great Western Hydraulic Controlled Diamond Saws



Patent Pending

The carriage on the Great Western Saws is controlled by an hydraulic cylinder which makes the smoothest cuts and gets the maximum wear from saw blades — no forcing, — no binding.

Vise has 8" opening with 4" cross-feed for slabbing, 1" arbor shaft takes 16" or 18" blade. The rigid frame makes it quiet and smooth running. Double hinge cover exposes front and top when open.

PRICE \$195 without blade and motor

Price includes stand, belt guard, motor mount and pulleys.

F.O.B. San Diego, Calif. Shipping weight 275 lbs. Crating charge \$4.00 extra.

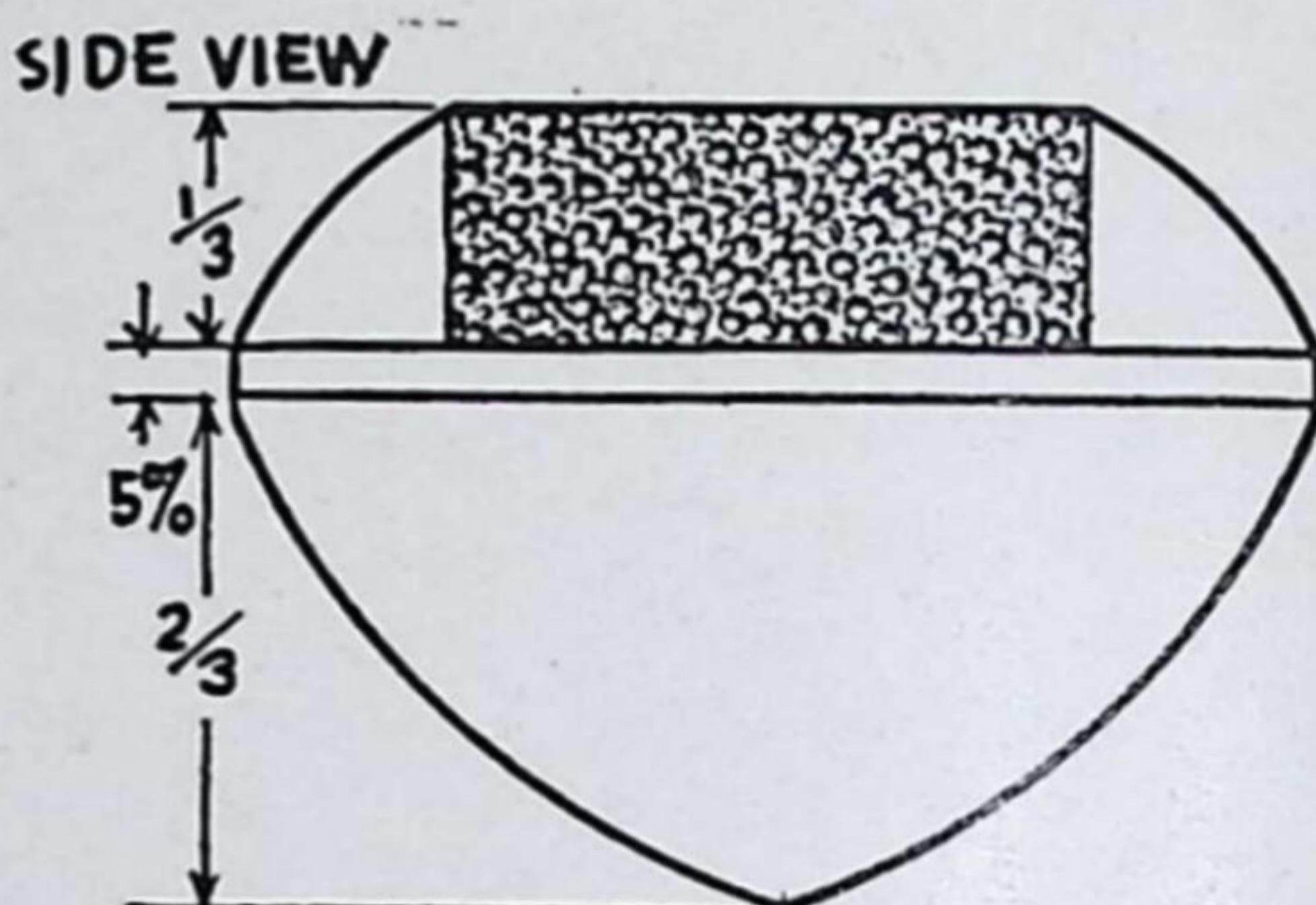
GREAT WESTERN LAPIDARY EQUIPMENT CO.
P.O. Box 444, 740 Hilltop Drive, Chula Vista, California

◆ The Emerald Cut

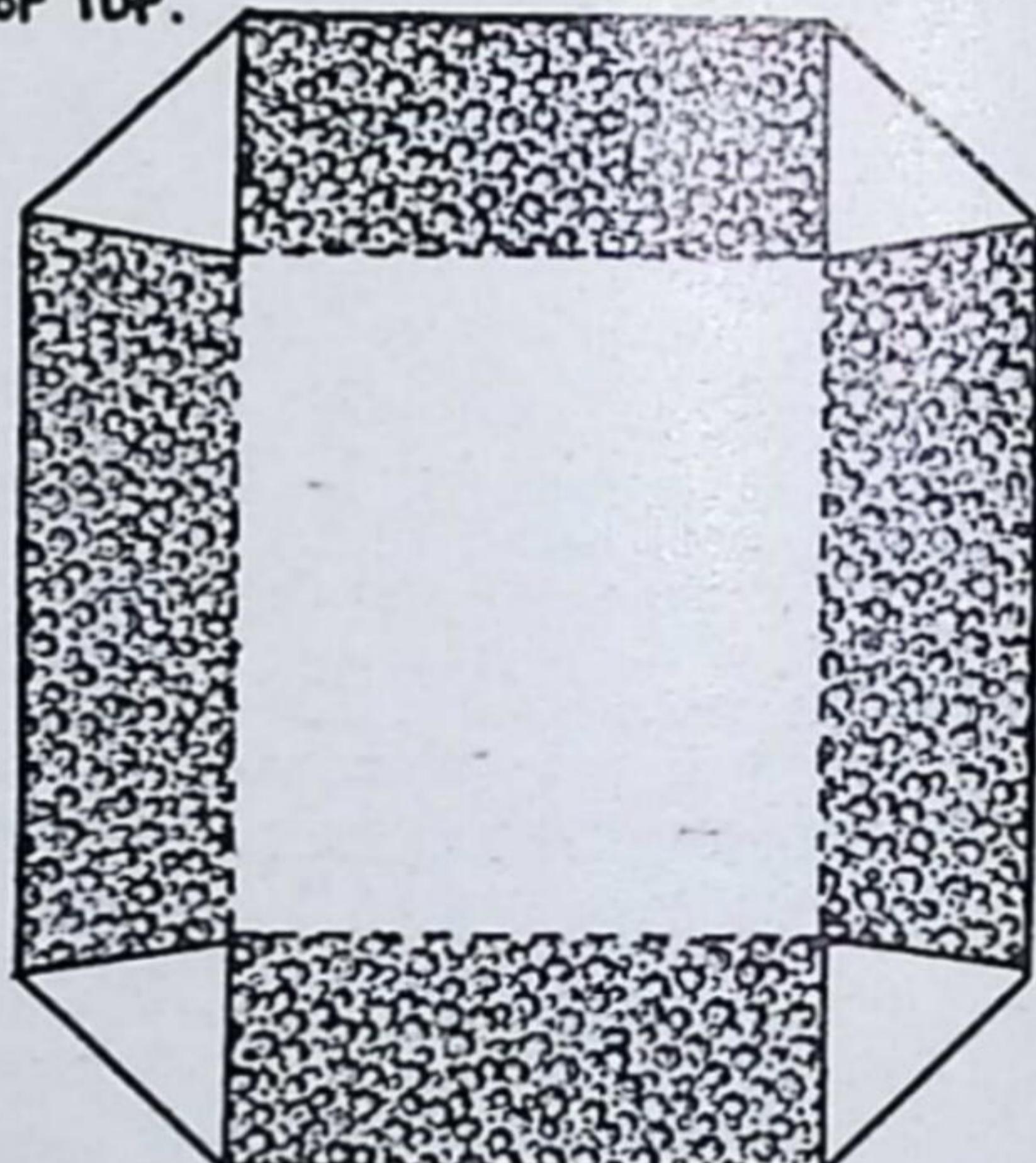
EMERALD CUT
PREFORM

FACETERS ATTENTION

We take pride in presenting herewith the second in a series of sixteen facet cuts in which we give the angles for cutting. These are the recommended angles for quartz. The recommended laps and polishing agents for other materials were given on Page 190 of the August, 1949, *Lapidary Journal* still obtainable for fifty cents. That issue also contained the Standard Brilliant cut directions. These charts have been prepared for us by M. D. R. Mfg. Co. (see ads on inside front cover and Page 303) and it is through their courtesy that they are being published. Those desiring to get all of the cuts NOW, rather than wait for three years, can purchase the series in a book called **THE BOOK OF GEM CUTS** which can be secured for \$2.50 postpaid from either the authors (M. D. R. Mfg. Co.) or the *Lapidary Journal*.



CROWN or TOP.



GRIND THE TABLE FIRST. Orient the stone for color. Have the best color in the culet area to show the most uniform color when the finished stone is viewed through the table.

GRIND THE CROWN on a curve from table to girdle. Table to be approximately 50% of width of girdle on narrow dimension of stone.

NOTE:—Curve is ground on wheel with a rolling action. DO NOT grind crown with a straight angle as the stone will be thrown out of proportion when the facets are ground.

GRIND THE PAVILION in the same way as the crown, leaving a fairly wide girdle. Check the pavilion with a protractor so that you do not grind below the critical angle of 43°.

CORNER FACETS can be ground on the grinding wheel at the same time if extreme care is used not to over-cut them, or they may be put on later in the faceting operation.

EMERALD CUT

Recommended angles for quartz
★

ORDER OF CUTTING

Girdle to be ground at 90°. To cut stone of predetermined size, cut girdle first. Cut and polish table in 45° angle dop, and then place dop in facet head.

CROWN

Cut 42° facets, leaving about 40% of top of stone for table, indexing 64-16-32-48.

Cut 27° facets next, very narrow, same indexing.

Cut 55° facets next, can be same width as 42° facet or can be wider, depending on the proportions of the stone, using same index.

Corner facets are cut at same angles as main facets, indexing 8-24-40-56.

ORDER OF POLISHING

Always polish towards the girdle, see polishing order on right, using same angles and index as was used in cutting.

ORDER OF CUTTING

Pavilion: — Align stone by setting at 63°. Make very light trial and error cuts, until the facet cuts parallel to the girdle. Then grind the 53° facets; then the 43° facets last. Corner facets are cut at same angles as main facets, indexing 8-24-40-56.

SPECIAL NOTES:—In the Emerald cut, difficulty is often encountered in getting facets to cut parallel, which is easily overcome by the use of the two compound angle screws on the Master Facet Head. Use the screw on the side corresponding to the wider end of the facet.

Screws can be used in compensating for irregularity in cutting due to periphery speed of wheel. If a facet does not polish at both ends, use compound angle screws. If facet polishes only at upper edge, decrease the angles, if only the bottom edge of the facet polishes, increase the angle.

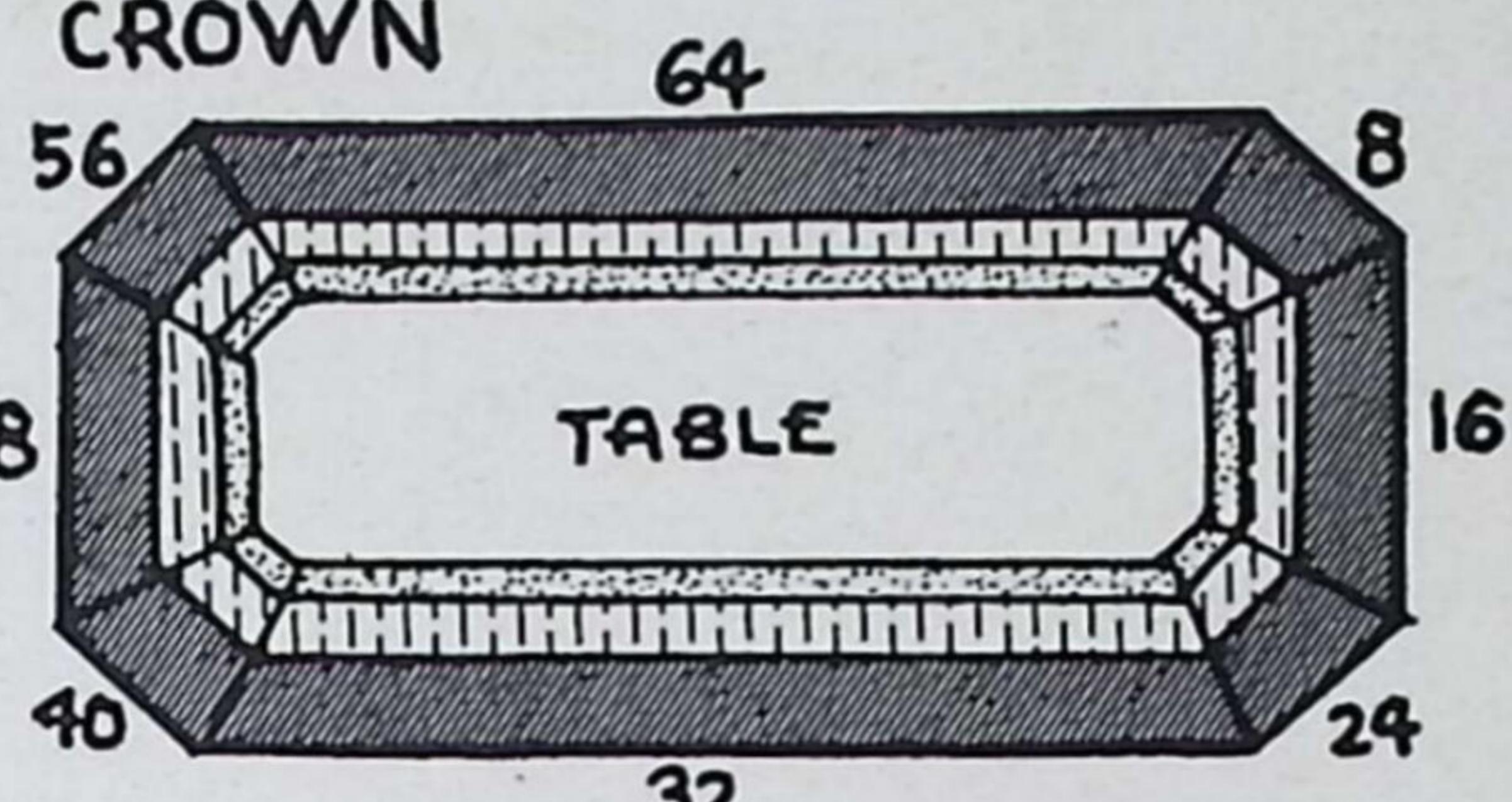
Cut

- 1.
- 2.
- 3.

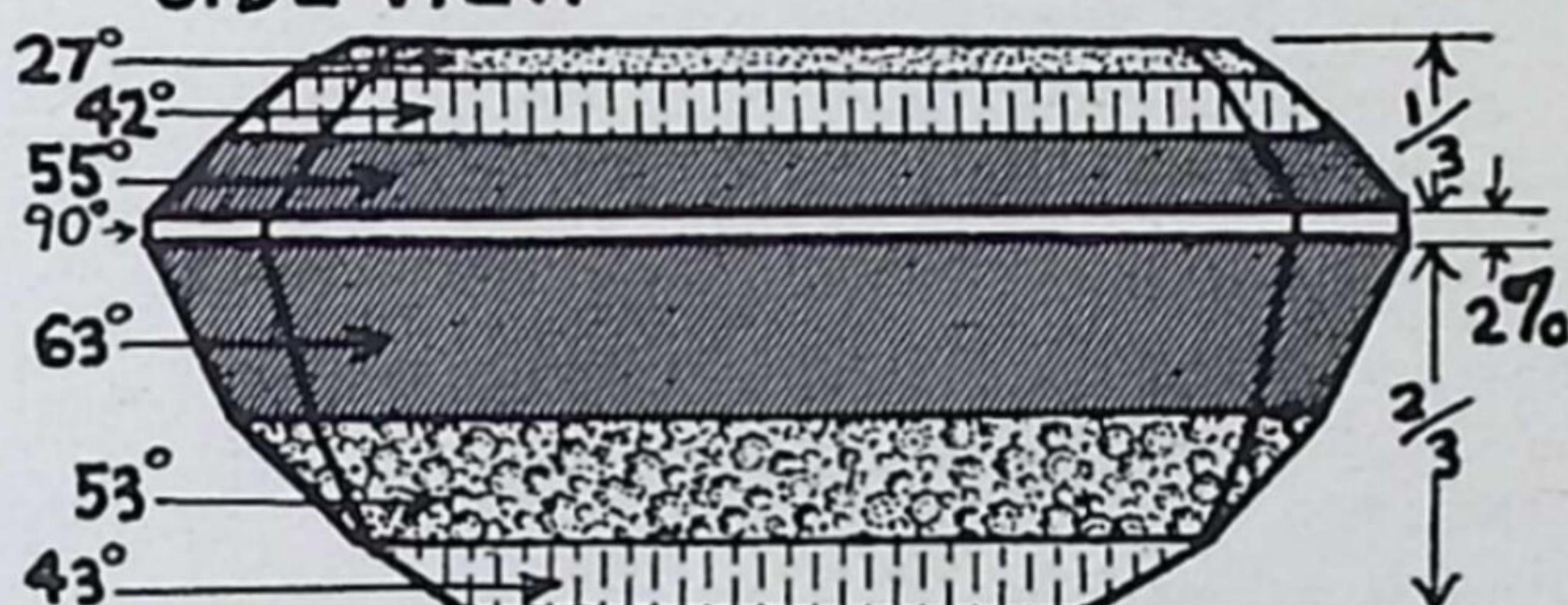
Polish

- 1.
- 2.
- 3.

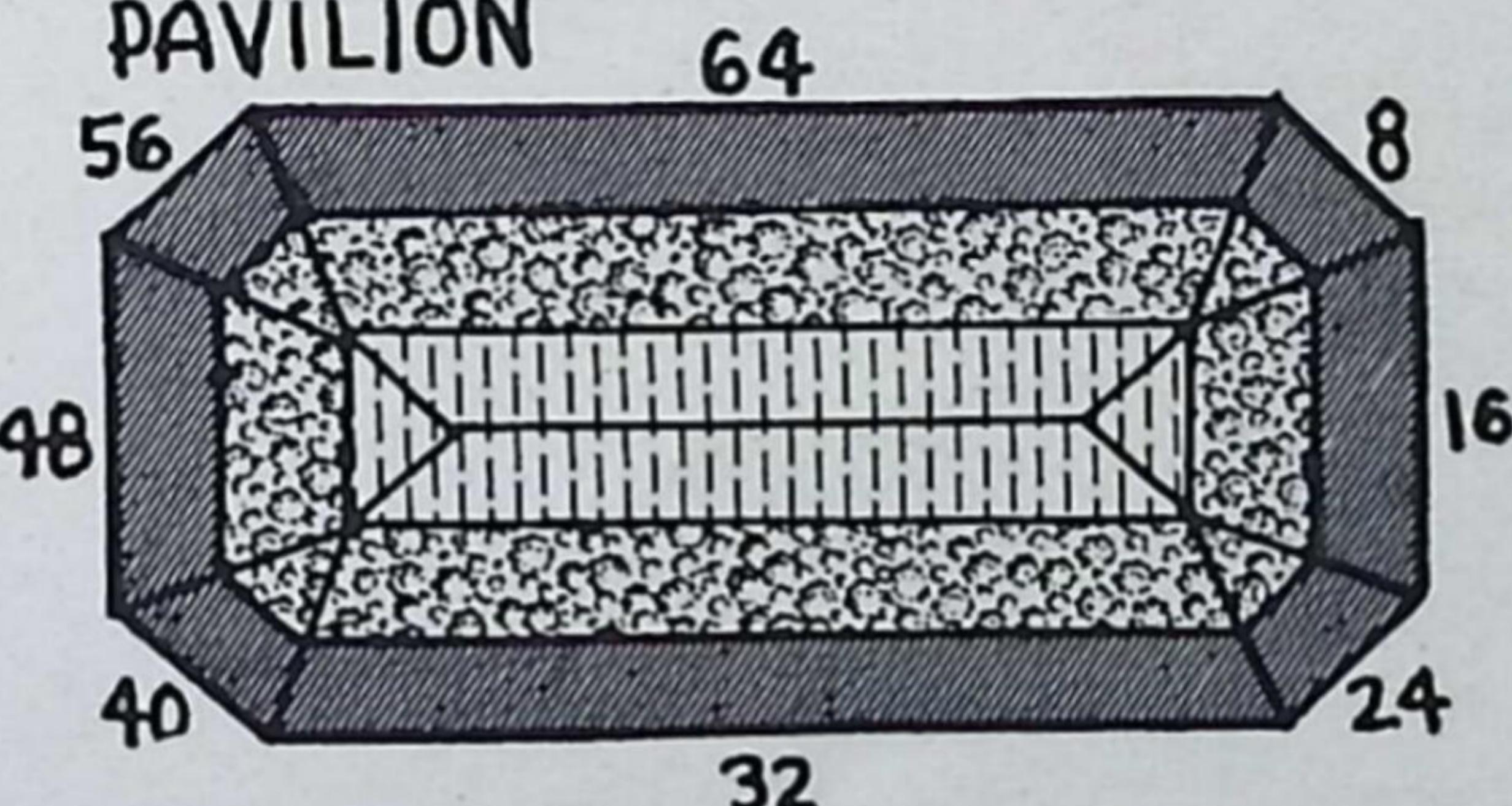
CROWN



SIDE VIEW



PAVILION



Cut

- 1.
- 2.
- 3.

Polish

- 1.
- 2.
- 3.

ORDER OF POLISHING:—Always polish towards the girdle, see polishing order on left, using same angles and index as was used in cutting.

USE CERIUM OXIDE ON A LUCITE CAP

◆ Identification of Gem Stones

By ROBERT M. SHIPLEY, JR.

Certified Gemologist of Gem Instruments, Co., 6063 W. 3rd St., Los Angeles

(Part One of a Series)

The identification of an unknown gem-stone is based on the determination of one or more properties or characteristics of the material. These properties are the physical and optical constants which have been proved to be characteristic of the individual minerals.

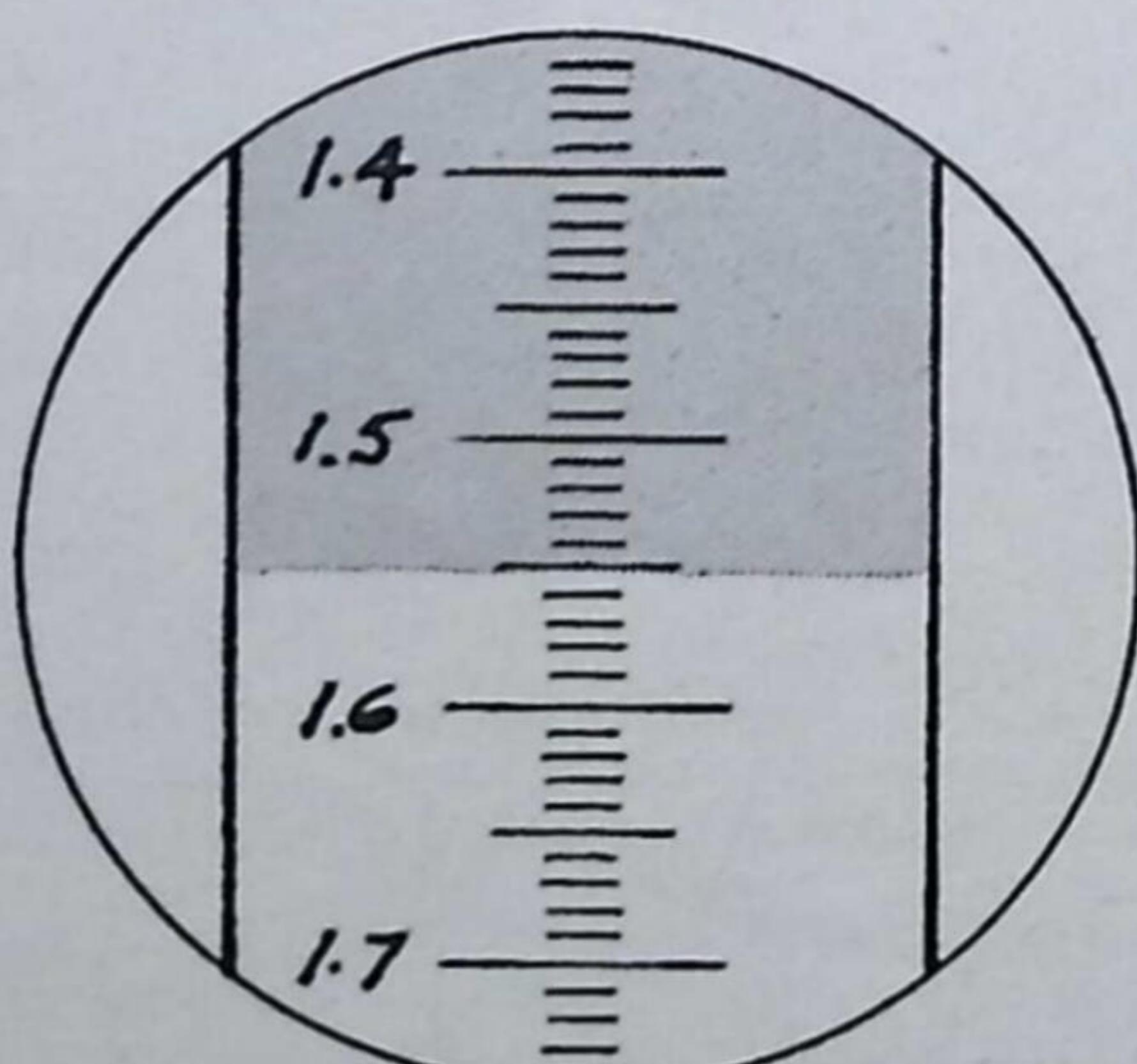
Some of the properties of a mineral are very simple and can be determined with only minimum equipment. These simple properties include color, transparency, luster, hardness, fracture, cleavage and approximate specific gravity. These can all be checked without instruments but in the majority of cases, even the determination of all six of these simple properties will not prove sufficient for accurate identification of an unknown gem.

As a result it is usually necessary to employ instrument tests if positive identification is desired. However, instrument tests need not be unduly complicated and with equipment now available they do not require any large expenditure of money. The instrument tests which are most valuable for gemstone identification are index of refraction, single or double refraction, pleochroism, birefringence and definite specific gravity (by hydrostatic weighing). All of these instrument tests can be performed with a set of equipment costing only about \$50.00. If more exacting instrumentation is desired, such properties as optical character and sign, and axial angle, can be determined with the petrographic microscope. The absorption spectrum can be plotted by use of the spectroscope. However, these last two instruments are much more expensive and in general are not practical in the small laboratory.

Each gem species has a unique set of properties. While a mineral may share one or more properties with other minerals, its complete set of physical and optical characteristics is always suffi-

cient to set it apart from all other minerals. For example, topaz, which has an index of refraction of 1.62 and specific gravity of 3.5, has the same specific gravity as diamond. However, the index of refraction of diamond is 2.42 and it is, therefore, easily separated from topaz by reason of the much greater brilliancy and higher luster of diamond which result from its higher index. Likewise, flint glass may have the same 1.62 index of refraction as topaz, but flint glass is singly refractive where topaz is doubly refractive and the two materials are easily differentiated by means of the polariscope.

Of all of the properties employed in gemstone identification, refractive index is unquestionably of the most value. Not only is it valuable as a diagnostic test but it is a very important property in gem species, for it has a direct effect on the beauty of the stone. The higher the refractive index, the greater is the brilliancy and the brighter the luster of the finished gem. Refractive index is valuable as a test because it is a property which is quite constant in any species. With inexpensive equipment now available the index of refraction can be measured to two decimal places.



A refractive index reading of 1.55 as seen in a jeweler's refractometer

RELOCATED a BENAWAZEK (SRUZZUZ!) *

A Brazilian cousin of our Gremlin flew in on a flying disc and brought some dreamy faceting material with him. Deep brilliant green tourmaline can now be yours for from 40c to \$1.25 per gram. Or if you'd like to try something startling (and we don't have much of this), how about blue tourmaline at \$2.00 and \$3.00 per gram. If you've never tried to facet and don't want to experiment with high-power stuff, send for an assortment of our citrine quartz in shades from pale lemon-yellow to deep orange-brown. 15c, 20c and 30c per gram.

We're happy to send approvals so that you may have the advantage of selecting just what you want.

Federal Excise Tax on all these items

After considerable prodding from the Gremlin, we have finally produced a

FREE LAPIDARY CATALOG

which lists what we consider the best equipment made by various manufacturers as well as a complete line of unusual domestic and imported cabochon and faceting material. If you're tired of cutting the same old things and want something exciting and different, send for your copy.

* Gremlinese for Hot Stuff.

MINERALS UNLIMITED

1724 University Avenue

Berkeley 3, California

California residents add 3% sales tax. Prices F.O.B. Berkeley, Calif.

"FAST MOUNT"

Your Gemstones in
Genuine Solid Sterling Silver

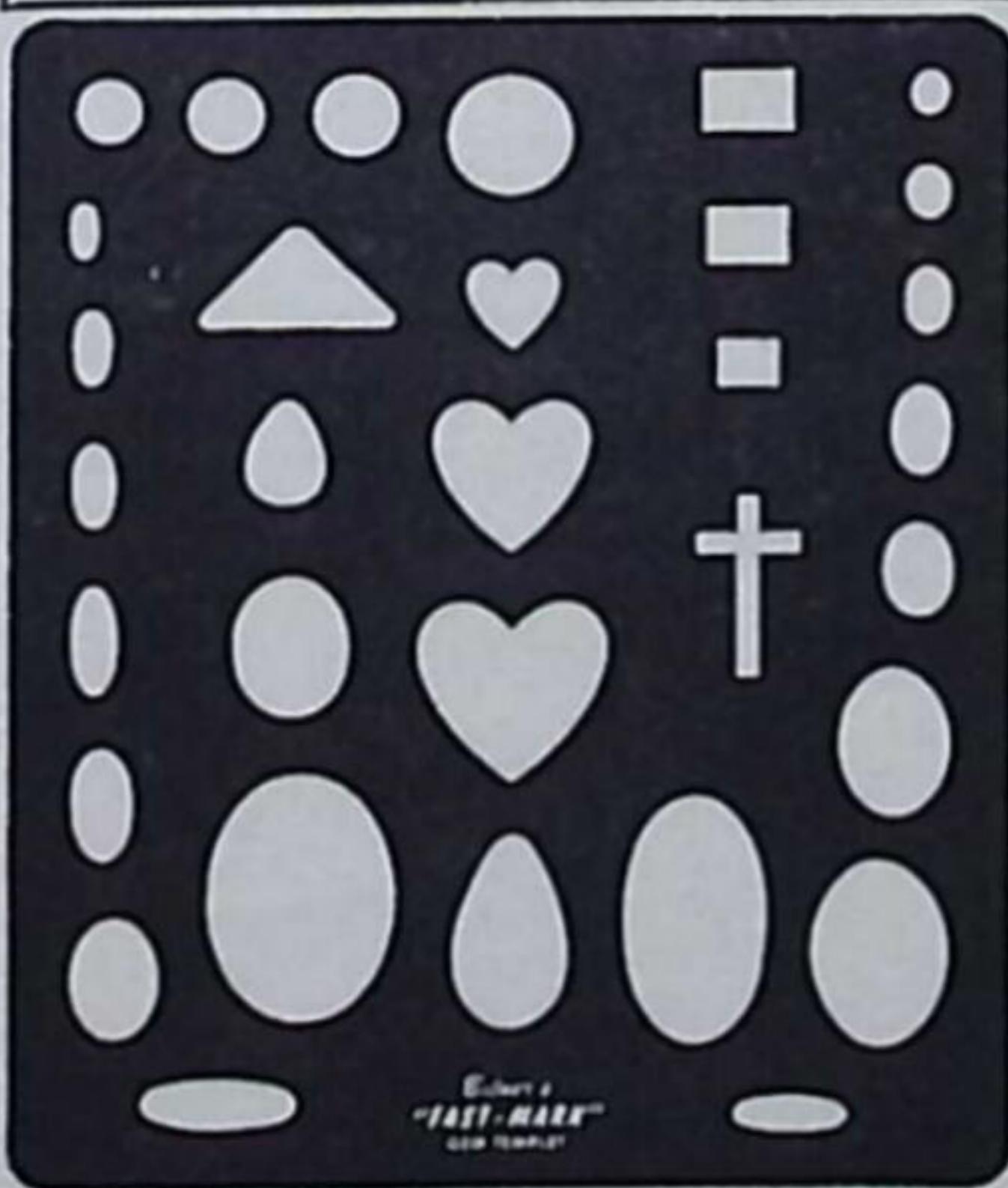
EASY—Just cut stone to fit cup and crimp
in edge of bezel. No knowledge of sil-
versmithing necessary.

Make Your Favorite Stones Into—
SCATTER PINS—Today's Newest and
Smartest Fashion

EARRINGS, EARSTUDS and HOOPS
CUFF-LINKS and BUTTONS

SPECIAL INTRODUCTORY OFFER
for \$5.00 *(plus tax)*

Assortment of "Fast-Mounts" in various
items and sizes.



"FAST-MARK" GEM TEMPLATE

\$1 00

New, Improved, fabricated from white, moisture
resistant plastic. Ideal for laying out and cutting
your Gemstones to accepted sizes and shapes.

If your dealer cannot supply these items write us.

BITNER'S

P.O. Box 1191

Santa Monica, California

Obtaining the refractive index of a gemstone with a refractometer is a comparatively simple matter. When a flat polished surface (such as the table of a cut stone) is available, this surface is placed in optical contact with the dense glass element of the refractometer. A drop of highly refractive liquid is used to make optical contact. The index reading is then seen through the eyepiece as the edge of a distinct shadow which extends from the low index end of the enclosed scale. All standard jewelers' refractometers share the feature of focusing simultaneously the refractive index shadow boundary and the calibrated scale—hence the refractive index is read directly from the scale. Lest the foregoing description sound over-simple, it should be pointed out that the shadow seen with white light does not cut off sharply but breaks into a narrow spectrum extending through violet, blue, green and slightly into yellow. For accuracy it is important to read the portion of this spectrum where the green changes to yellow. The reading may be made sharper by removing the spectrum with a red filter.



The Erb & Gray jewel refractometer

Not only may the index of a faceted stone be read on the refractometer but with both the Erb and Gray and the Gem Instruments Co., products cabochon stones may be tested as well. This is best accomplished by the method first employed by the late Prof. Pfundt of Johns Hopkins University. This method consists simply of pressing the curved surface lightly against the dense glass

★ ★ ★

Does Everything...



Gemmaster
HILLQUIST

*without motor.

COMPARE!

Put the Hillquist Gemmaster beside any lapidary machine—cheaper, flimsy "gadgets" or units that sell at twice the price. Compare construction! Compare ease of operation! Compare how much you get for your money and you'll say, "I'll take the Gemmaster!"

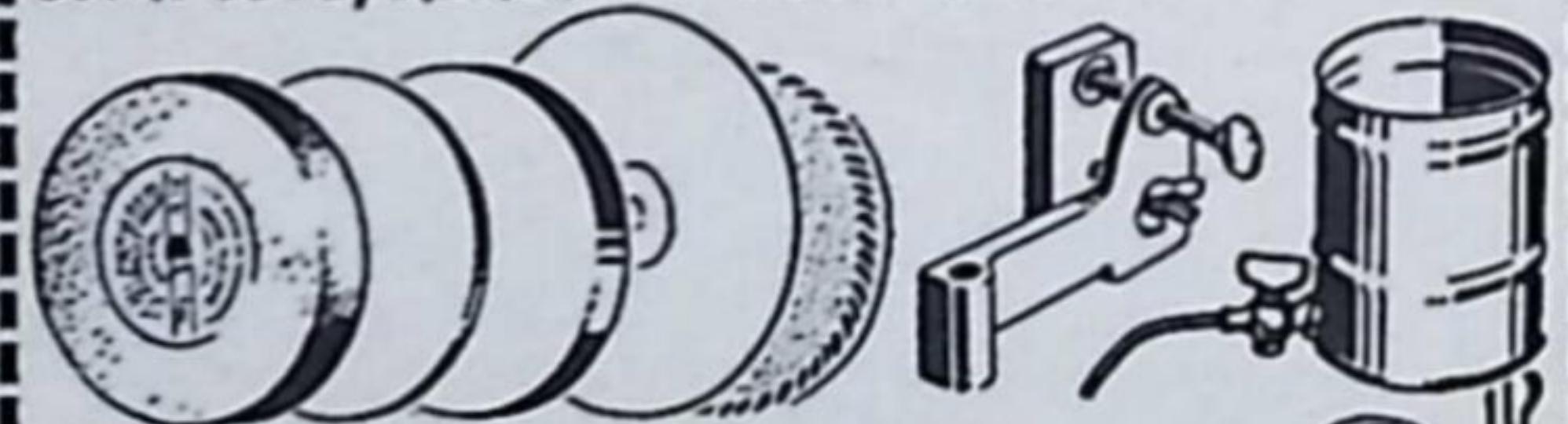
Here is a worthy companion for our larger and more expensive Hillquist Compact Lapidary Unit. The smaller in size, the Hillquist Gemmaster has many of the same features. It's all-metal with spun aluminum tub. You get a rugged, double-action rock clamp, not a puny little pebble pincher. You get a full 3" babbitt sleeve bearing and ball thrust bearing. You get a big 7" Super Speed diamond saw and all the equipment you need to go right to work.

USES ALL ACCESSORIES

You can use all the regular Hillquist accessories with the Gemmaster: The Hillquist Facetor, Sphero Cutters, Laps, Drum and Disc Sanders, etc.

WRITE FOR FREE CATALOG

COMPLETE, READY TO USE! YOU GET ALL THIS—



BIG 7" Diamond Saw • 6" x 1" Grinding Wheel • 6" Felt Buff • 6" Backing Wheel
6" Disc Sander • Double-action Rock Clamp • Oil Feed Cup • Water Feed Hose & Clamp • Dop Sticks & Dop Wax • Polish, Compound, Etc.

BUILT FOR LONG SERVICE!
No other low-cost lap unit gives you full 3" sleeve bearing, ball thrust bearing and pressure lubrication.

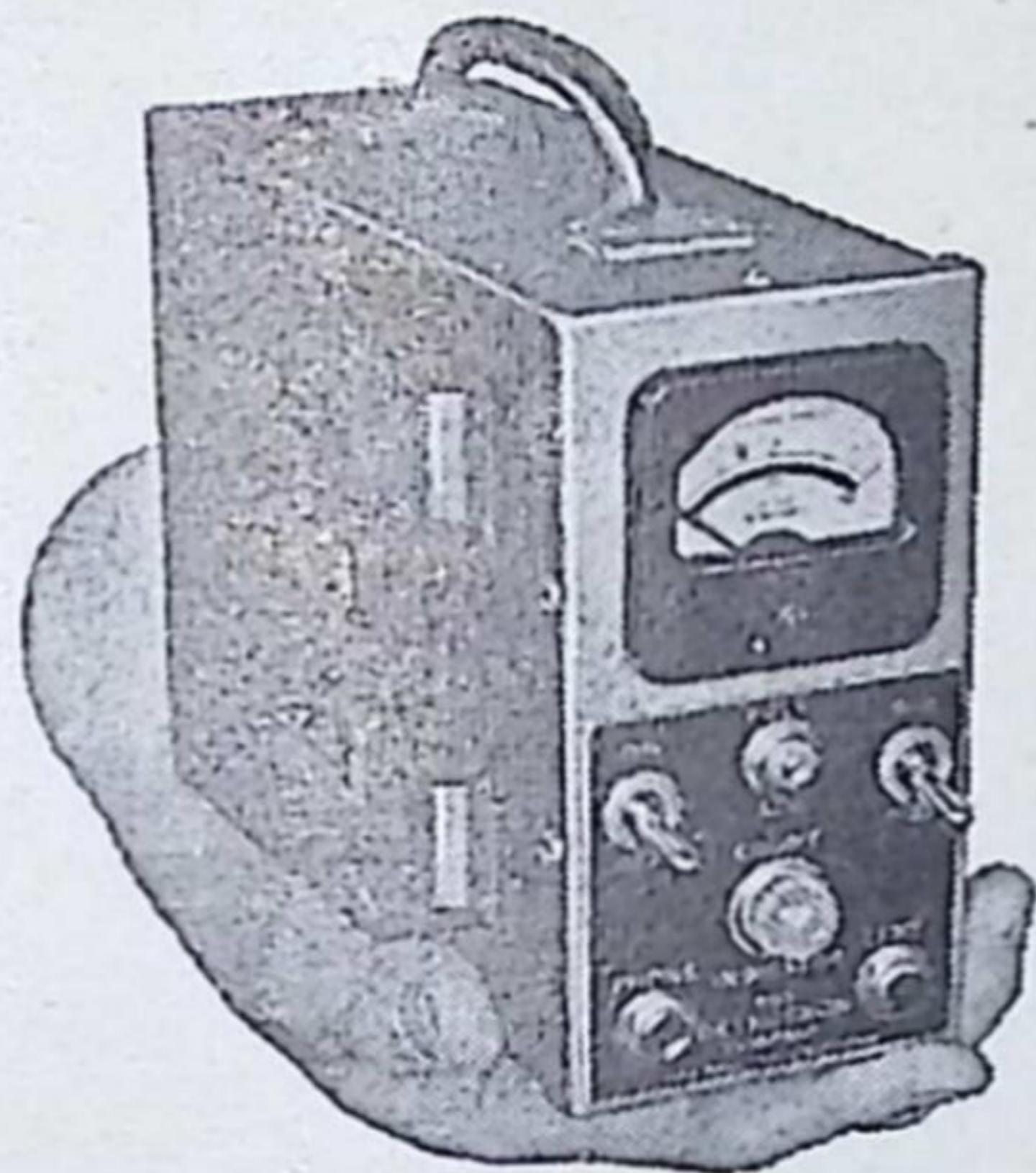
Lapidary EQUIPMENT CO. INC.

1545 WEST 49TH ST., SEATTLE 7, WASHINGTON

★ ★ ★

\$10,000 Plus \$1,000 Equals \$11,000

This can be **YOURS** for making a uranium discovery. The Detectron Company, makers of the famous DG-2 Geiger Counter, will pay \$1,000 to the first person who uses the DG-2 to find an ore deposit which qualifies for the \$10,000 Government bonus. Write now for full details.



**THE DG-2 IS THE LOWEST PRICED
GEIGER COUNTER WHICH HAS:**

- Hi-Lo Sensitivity Range
- Low Cost Batteries
- Intensity Meter
- Count Indicator
- Double Head Set
- Beta Shield
- Light Weight
- Full Guarantee

IMMEDIATE DELIVERY

**SEE IT AT YOUR NEAREST DEALER
OR WRITE FOR FREE INFORMATION**

**The DETECTRON Co.
5637 N. Cahuenga Blvd.
North Hollywood, California**

DEALER INQUIRIES INVITED

WARD'S SELECTED CUTTING MATERIALS

"CALIFORNITE". Compact, attractive, green vesuvianite (Idocrase), often called "California Jade" . . . \$1.25 per lb.; 10 lbs . . . \$10.00. Plus 20% F. E. Tax.

MEXICAN ONYX. Flawless, cream-colored, translucent, banded masses in large chunks for pen stands, paper weights, etc. Easy to cut and takes a nice polish . . . \$.60 per lb.; 10 lbs. . . . \$5.00. No tax.

SCAPOLITE FOR FACETING. Rare gem mineral from Madagascar, available in crystal fragments of light lemon yellow color. Pieces average

Prices are list, Rochester, N. Y.; packing and postage extra at cost.

CHRISTMAS SHOPPERS:

Write for our selection of choice books, collections and specimens.

WARD'S NATURAL SCIENCE ESTABLISHMENT, INC.

3000 RIDGE ROAD EAST

● ROCHESTER 9, NEW YORK

of the refractometer, thus obtaining optical contact without contact liquid. The reading in this case is seen, without the refractometer eyepiece, as a tiny dot which moves up the scale as the examiner moves his head relative to the scale. The point at which the dot suddenly disappears is the refractive index of the material.

Jewelers' refractometers can be used not only with cut stones but are valuable with rough material as well. When the rough is in the form of a rounded pebble (in fact when any fairly smooth, rounded surface is available) a reading by the Pfundt method is readily obtained. If no such surface exists, or if a definite shadow edge is desired, a few minutes' work with the proper grades of carborundum paper, followed by brisk buffing on a small felt square to which jewelers' rouge has been applied, will produce a surface which will give a satisfactory reading. Such abrasive papers, felt, and rouge are included in the field polishing kit which is supplied as an accessory with the Gem Refractometer.



Jewel refractometer manufactured by the author. See ad on back cover

Refractive index can be determined by instruments other than the refractometer. The microscope can be used with calibrated liquids. By means of determining the liquid which matches the specimen in index the specimen's index can be determined with great accuracy. The somewhat less accurate Schlaunes method can also be used with the microscope. This consists of measuring the true depth of the stone with a screw micrometer or similar device, and then measuring the apparent depth by means of the calibrated fine adjustment of the

microscope. Index is then determined by dividing the true depth by the apparent depth. Very accurate index measurements can be made by measuring prism angles and the deviation of light through prism sections using a spectrogoniometer. Both the microscope and goniometer methods require expensive equipment and are, therefore, not practical for the average gem cutter or collector.

Several jewelers' type refractometers are presently available to American users. Prior to the war all these refractometers were imported, either from England or Germany. Today only one imported refractometer is carried by American dealers. This is the Rayner instrument, made in London. It retails for \$89.00 and is a very satisfactory piece of equipment. Three United States made refractometers are now on the market. The instrument made by the Polarizing Instrument Company is very similar to the aforementioned Rayner with the addition of a built-in light source. It sells for about \$120.00. Erb and Gray manufactures two models of their instrument, which is an adaption of an earlier Zeiss design. One model employs a rotating hemisphere, which is helpful in determining birefringence (the amount of double refraction) and retails for \$90.00. The same instrument with stationary hemisphere sells for \$65.00. The latest refractometer to be manufactured in this country is the Gem instrument. It also is a derivation of the Zeiss design, but is a very much smaller and more compact device. The Gem Refractometer alone retails for \$29.00, and with a complete set of accessories, including the filter and the polishing kit mentioned above, for \$34.00.

To Be Continued

OUR NEW CATALOG IS NOW READY

It contains illustrations and full information on one of the most complete lines of lapidary equipment offered by any manufacturer.

Send a postal for your FREE copy now.

**HIGHLAND PARK
LAPIDARY SUPPLY CO.**

Manufacturers of
PRECISION

Lapidary Equipment

1009 Mission Street South Pasadena, Calif.

Rubie (TITANIA)

The New Synthetic Gem,
In Clear, Amber and Blue

FINISHED STONES

1 carat or less	\$10.00 each
Over 1 to 2 carat	9.00 per carat
Over 2 to 3 carat	8.00 per carat
Over 3 to 5 carat	7.00 per carat
Over 5 carat	6.00 per carat

20% tax unless you state your
Dealer's License

Terms:
Net cash with
Order
Free Delivery



SYNTHETIC GEM MATERIAL
(Rough)

CORUNDUM

Minimum 1/2 Boule (About 70 Carats)	
Alexandrite	6c per carat
Blue Sapphire	6c "
Garnet	6c "
Golden Sapphire	5c "
Green Sapphire	6c "
Kunzite	5c "
Rose Sapphire	4c "
Ruby	4c "
White Sapphire	4c "
Paparadscha (Orange)	5c "
Topaz Sapphire	6c "

SPINEL

Minimum 1/2 Boule (About 70 Carats)	
Aquamarine	5c per carat
Blue Spinel	5c "
Green Spinel	5c "
Zircon	5c "
Peridot	5c "
Tourmaline	5c "

Special Prices
For 1000
Carat Rough
Per Color

Why Cut Bottle Glass ???

When we have Blue Topaz from Brazil for faceting—Best grade 50c per gram.

Somewhat lighter pieces—35c per gram. This material is light blue with just enough color to make a beautiful stone.

OR—Colorless terminated topaz crystals from Nigeria that weigh up to 10 grams at only 15c per gram. These are nice crystals, but you guys have to cut something!

IF you still insist on cutting glass, try some of our volcanic glass; Apache Tears, that is. These will make nice smoky faceted stones and you can get a whole pound of them for only 60c. These are *not* the fake tears mentioned on Page 298. We know because we dug them out ourselves.

For you thunderegg hatchers, how about some Priddy Ranch material at 65c per pound? We are not foolish enough to guarantee this stuff when it's in the rough.

43 Page Catalog FREE

Burminco

(Burnham Mineral Co.)

C. Wayne Burnham

128 S. Encinitas
Monrovia, Calif.

George Burnham

Open Every Day but Tuesday 9 A.M. to 9 P.M.

◆ *Framing Your Gems in Silver*

By JOE STETSON

of *Stetsons*

2550 Ridgeway Dr., National City, Calif.

Member of San Diego Mineral and Gem Society

The desire to mount gems, for no other reason than to add to the gem's natural beauty and to give it an added setting of individuality, has been prevalent since man first learned about gems. So it has been through the ages. Some pieces have been done by master artists in jewelry design and others, very crude in design, never-the-less strive to add additional beauty and attractiveness to the prized gemstone. In late years in our own country our native Indians created some marvelous pieces with the crudest of methods but it was not until the year 1880 that the Navajo Indians began setting stones of turquoise in their jewelry. The turquoise was crudely cut but their work had a beauty peculiar only to their type of workmanship and art. Today thousands of amateur gem cutters are producing amazing work in the art of gem cutting.

There comes a time when even the most rabid gem cutter would like to see some of his beautiful pieces set in some kind of a mounting. It does not matter at first what type of mounting it may be and he looks around for a ready-made mounting in which to set his prize. Many of these factory made mountings of course add some degree of beauty and distinction to his gem and are quite satisfactory until he has seen hundreds of others just like them.

Then he begins to wonder if it is not possible to have something different from the general run of things. He now reaches the point where there are two courses open to him. One is to have some master artists design individual mountings for his gems or to use his own ideas and try making his own mountings for his gems.

His first attempts may not be too beautiful but never-the-less he will derive great pleasure from being able to create something of his own. Likely he will never see another mounting like the first one or two he creates. And he will not want to—for obvious reasons. I know, for I still have several of my first mounting at-

tempts, made many years ago, and I would not part with them. To be truthful, I have had no reason to think I will ever need to refuse to sell them.

My aim in writing this is to help beginners in a small way by explaining as well as possible the methods by which you may create one or two simple mountings in the easiest possible manner. Let us assume we have a cabochon that would look well mounted as a brooch. And if it is given to the Little Lady maybe she will be a bit more tolerant of certain things—such as your spending most of your time away from your job out in the shop cutting gems.

The first step in making the mounting is to make the bezel. Use a thin piece of silver (preferably 24 gauge) for the bezel. The bezel is a piece of metal that goes around the gem in such a manner as to hold the gem in place. Usually the width of this strip will depend on the depth of the gem. The strip should be deep enough to come well above the girdle of the stone so that when you are ready to bezel the metal over the gem there will be no possibility of the gem falling out.

The best way to find the exact length of the strip so it will fit snug around the gem is to take a fine piece of wire and bend it around the girdle of the gem. Twist the two ends together until the wire fits tight all around the girdle. Slip the wire off and cut in the center away from the twisted ends. Straighten the wire, being careful not to untwist the ends, and you have the exact length of your silver strip.

Square one end of the silver strip with a file. Measure the length and cut a fraction over the mark so you will have enough clearance to file the other end square. Now you are ready to solder the bezel strip together. Bend the strip until the two ends meet, paying no attention to the shape other than to have the ends meet perfectly. If the ends are properly filed you can hold them together

O-B STERLING SILVER

Blank Mountings

Now available. A complete stock of famous O. B. sterling silver and gold mountings, ready for delivery.

Write for our new free illustrated price list of many types of mountings, including rings, pendants, brooches, ear rings, bracelets. Also men's jewelry, tie chains, tie slides, key chains, cuff links with agate mountings, money clips, etc.



Complete line of findings and tools for the agate jeweler.

*Headquarters for supplies for the jewelry craftsman in the
Pacific Northwest*



MONTANA ASSAY OFFICE

610 S. W. Second Avenue

Portland 4, Oregon

GEM ROUGH - LAPIDARY SUPPLIES

KUNZITE: from Madagascar (rare). Faceting quality kunzite with good color, transparent pink to lilac. Makes beautiful soft pink to lilac faceted gems of high refraction—\$2.25 per gram. Pieces from 3½ to 7 grams each. If a larger piece is desired let us know, if a smaller piece is wanted we will cut it for you.

TIGER EYE: from South Africa. 50 pound lot in original unopened case, including the much sought-after honey-yellow color. Takes a high polish and has plenty of stripes. \$60.00 per lot **EXPRESS PAID**. Also available in small quantities of good grade material. \$1.75 per lb. F.O.B.

CRYSTAL QUARTZ: from Brazil. Water clear, no fractures or inclusions. For cutting brilliant faceted gems and sparkling spheres. \$1.90 per lb.

PROSPECTING OR ROCKHOUND HAMMERS OR PICKS: Surplus! Brand New! 1¾ pound hardened steel tapered head. Head is 7¼ inches long, solid oak handle, overall length of hammer 17¾ inches. \$1.75 each F.O.B., New York

AMAZONITE: from Minas Geraes, Brazil. Bright blue-green TRANSLUCENT, RARE material. Will cut exquisite bright blue-green cabochons that are translucent. This is extremely rare for Amazonite. A must for the gem and mineral collector. Blanks 16x14 m.m. by 7 m.m. thick \$1.65 each.

THREE PRONG GEM TWEEZERS: An automatic tweezer, just press the button on top and three steel prongs appear from a metal casing to grasp your gem firmly thus permitting you to handle and show loose gems to friends and customers without danger of loss or breakage. Excellent for close examination of gems. No manual pressure is needed once you have grasped the gem. Leaves the hands free to work. \$3.29 each.

"GARNET JADE": from Transvaal Africa. A name applied to the semi-translucent almost emerald green **GROSSULARITE GARNET (RARE)**. Massive material closely approaching fine jadeite in appearance. Blanks 16x14 m.m. by 7 m.m. thick \$2.25 each

CHRYSOBERYL: from Brazil. One of the hardest and most important gem minerals. Greenish-yellow in color. Will cut small faceted gems up to 1½ carats. \$1.90 per gram.

WRITE FOR OUR FREE CATALOG

The following items are listed: 30 varieties of gem rough, slabs and blanks, synthetics, ring mountings, books, tools and abrasives, gem and ring cases, cut stones.

SATISFACTION GUARANTEED OR MONEY REFUNDED

TECHNICRAFT LAPIDARIES CORP.

3560 Broadway Room 23

Import-Export

New York 31, N.Y.

by springing the metal. Part the ends so there is enough spring in the strip to hold the two ends firmly together. Clean and flux the joint. Lay a very small piece of solder across the joint and gently play a flame until the solder flows. Use a charcoal block to rest your work upon when soldering.

The next step is a back for the gem to rest upon. As this pattern requires no bezel rest take a flat piece of silver of 18 or 20 gauge and cut a piece so that some silver extends past the actual size of the bezel. This will allow for any ornamental wire scallops etc. you may wish to use. The next step is to have both the flat piece and the bezel perfectly flat so that there are no spaces open when the two pieces are laid together. The fastest way is to take each piece and rub it across a large flat file. *Do not run the file over the pieces as this will tend to make round corners.* After both bezel and back are filed even, coat both pieces with liquid borax. Then place both pieces together in place and by gently heating the flux it will hold the two pieces together. Next take some small clippings of solder and space them around inside the bezel and close to it. By moving the torch flame around and around the outside the solder will flow and make a very good tight joint.

The next step will be to decide if you want any ornaments, such as twisted wire. If so, fit a piece of twisted silver wire around the bezel. Mark it exactly and cut and file the ends. Solder with a very small piece of solder. Reshape and flatten any waves. Run over a file for a flat underside surface. Fit over the bezel and push down to a flat outer edge. Flux all over and then play the torch all around as for the bezel. There need be no other solder added as there will be plenty of solder to catch the wire. Pickle the piece while it is still hot. This is an easy way to "clean up" the work.

The next step is to add the joint and catch for the pin. This can be done by cleaning both parts thoroughly and fluxing and placing the catch or joint. Lay a small piece of solder next to the joint or catch. Play the flame gently on the side away from the solder and when ready to flow well direct it under the catch or joint. Pickle and finish with files and emery paper.

You are now ready to set the gem in your mounting. Then you will be thankful you used a heavy gauge silver for the bezel as it is thick enough to work easily. If the gem fits too tightly you can cut away some of the metal from the inside of the bezel. When the gem fits into the bezel, force the metal over onto the stone with a bezel tool or burnisher, going around and around until the metal is tight and even against the gem.

There you have it. Your first creation in silver for the *framing of your own gem.*

Caution! When soldering do not play a flame directly on the part to be soldered but keep moving it across or around the larger area of the entire piece and be sure all parts including the solder is kept clean and free from all dirt and foreign substances. Even body oil may prevent flowing of solder.

Dr. Willems

SAYS—

Facet cutting combines art with the highest skill of the hand. Reducing it to a mechanical process is to miss a highly exhilarating satisfaction.

The Willems Faceting Device

Designed for amateur and professional. Has earned the praise of both. Flexible for simple, as well as the fanciest shapes and styles of cutting. Simple, precision-built, low priced, easy to operate. Designed, built and tested by cutters, for cutters. Adaptable to any standard faceting machine. Send for free descriptive literature.

PRICE \$15.00



J. DANIEL WILLEMS

LOCK BOX 1968

CHICAGO 90, ILLINOIS

Home Display Cases

New Line of Cases Introduced at the Sacramento Show. \$15 to \$30.
CUSTOM CASES MADE TO ORDER
Send for Free Literature

Dean Arts

20730 Lake Chabot Rd. Hayward, Calif.

DIAMOND SAW BLADES—

Carborundum Company blades for maximum efficiency and long life. Most sizes now in stock.

PERRY TRIM SAWs—

A well made unit with ball bearings and all metal construction. Price now only \$23.50. Blades extra—6" at \$7.70 or 8" at \$9.90.

POLY ARBORS =

The unit with $\frac{3}{4}$ " shaft, ball bearings and grit slingers at \$19.50 is the most popular model. We have found this arbor superior to some others at much higher prices. We have grinding wheels, drum sanders, disc sanders and polishing buffs to fit these arbors. This makes a highly efficient lapidary outfit.

CABOCHONS—

Jade, tigereye, lapis, agates, etc. in expertly cut and finely polished cabochons at very reasonable prices. Approval selections sent collectors against deposit or suitable reference.

CUSTOM CUTTING—

Your stones expertly cut and polished. Average charge \$1.00 per finished cabochon. Facet Cutting—Your stones, average charge \$6.00 per finished gem.

Kane Lapidary & Supply

W. J. KANE

1651 Waller St., SKyline 2-0500

San Francisco 17, California

**DIRECT TO YOU FROM OUR
OWN CUTTING PLANT**

RUTILE (Titania)

Pacific Gem Cutters is first to offer you this most amazing gem cut in our own plant, at these

LOW PRICES

Small stones can be had in pairs for earrings.

**½ to 1 carat sizes at.....\$10.00 carat
1 carat sizes and up at..... \$ 7.50 carat**

Each stone guaranteed to be first quality.

Brilliant cut stones from Linde Air Products boules, facet for facet to duplicate the brilliant diamond cut. These synthetic balls of fire have a double refractive index and exceed the diamond in brilliance.

All stones precision cut and beautifully polished.

PACIFIC GEM CUTTERS

LAPIDARY AND STONE SUPPLY

Phone MA 8835 – Judson Rives Building

424 SOUTH BROADWAY

LOS ANGELES 13, CALIF.

The Las Vegas Show

Clark County (Nevada) Gem Collectors announce that, for their forthcoming show on November 11th, 12th and 13th, the U.S. Bureau of Mines, Metallurgical Division, will offer a display from their Experimental Station at Boulder City. Dr. H. H. Nininger of the Meteorite Museum outside of Winslow, Arizona, will display specimens and lecture; and the Cedar City Rock Club, Utah, a near neighbor to the Las Vegas group, will make a guest exhibition.

These features of the show, to be held at the U.S. Naval Reserve Armory in Las Vegas, are in addition to the half-ton block of pure selenite crystals which the Club itself is exhibiting, and the display in memoriam to the late Dr. Wm. S. Park, noted amateur geologist and lapidary. It is illustrated below.

The show will be attended by several prominent dealers who will have available, among other things, some of the materials found in the state of Nevada. The Editor will be on hand to greet old friends and to meet new ones.



Two beautiful specimens from Nevada. The one on the right weighs half a ton and is millions of years old. It is selenite. The one on the left needs no explanation. She is Jean Marie Pettit.

ROCK HARD FELT BUFFING WHEELS

6x1-\$1.95 6x2-\$3.75 5x1-\$1.50 10x1-\$5.95 5x2-\$2.75 5x3-\$3.50
Medium Hard Felt Buffing Wheels 6x1/2-\$1.25 6x1-\$1.50 10x2-\$4.95

Also Other Sizes

2205 Euclid Ave.

YALE ADLER

Detroit 6, Michigan

BRAZILIAN ROUGH GEM MATERIAL

Commercial Quality

AQUAMARINE — GREEN BERYL — AMETHYST — CITRINE

CHRYSOBERYL — PRECIOUS TOPAZ — TOURMALINES

Selected Stones and Lots For Lapidaries and Dealers

Unusual Cut Gems and Gem Crystal Specimens For

Museums and Advanced Collectors

COMPLETE NEW STOCK OF RECENT PURCHASES IN BRAZIL

ALLAN CAPLAN

2 WEST 46th STREET

NEW YORK 19, N. Y.

SILICON CARBIDE GRINDING WHEELS

We do not stock wheels. To do so would require that we carry a tremendous inventory. We offer over three hundred sizes and types of wheels, and make up each wheel as ordered. Our customers appreciate our ability to make up exactly the wheel for their particular needs. Let us solve your grinding wheel problems. We ship about ten days after receipt of order. Following are listed most popular sizes and types. Write for price on any wheel not listed.

Grit sizes are in four price groups, specified as "A" coarse-60-80-100-120 or 180. "B" medium-220-240 or 280. "C" fine 320 or 400. "D" 500 or 600.

Thickness in inches	Diameter in inches				
	6	7	8	10	12
1/2	A	\$2.91	\$3.20	\$3.85	
	B	3.08	3.45	4.18	Illinois purchasers add 2% sales tax
	C	3.25	3.73	4.52	
	D	3.41	3.87	4.68	
3/4	A	3.10	3.80	4.57	
	B	3.37	4.14	4.96	Prices F.O.B. Franklin Park, Ill.
	C	3.65	4.48	5.35	
	D	3.80	4.63	5.55	
1	A	3.54	4.35	5.30	\$ 7.48
	B	3.85	4.51	5.78	8.14
	C	4.15	4.90	6.24	8.80
	D	4.31	5.28	6.47	9.10
1 1/2	A	4.70	5.81	7.08	10.31
	B	5.00	6.31	7.70	11.20
	C	5.50	6.82	8.32	12.03
	D	5.70	7.06	8.62	12.55

ARBOR HOLE furnished in size desired. PLEASE SPECIFY.

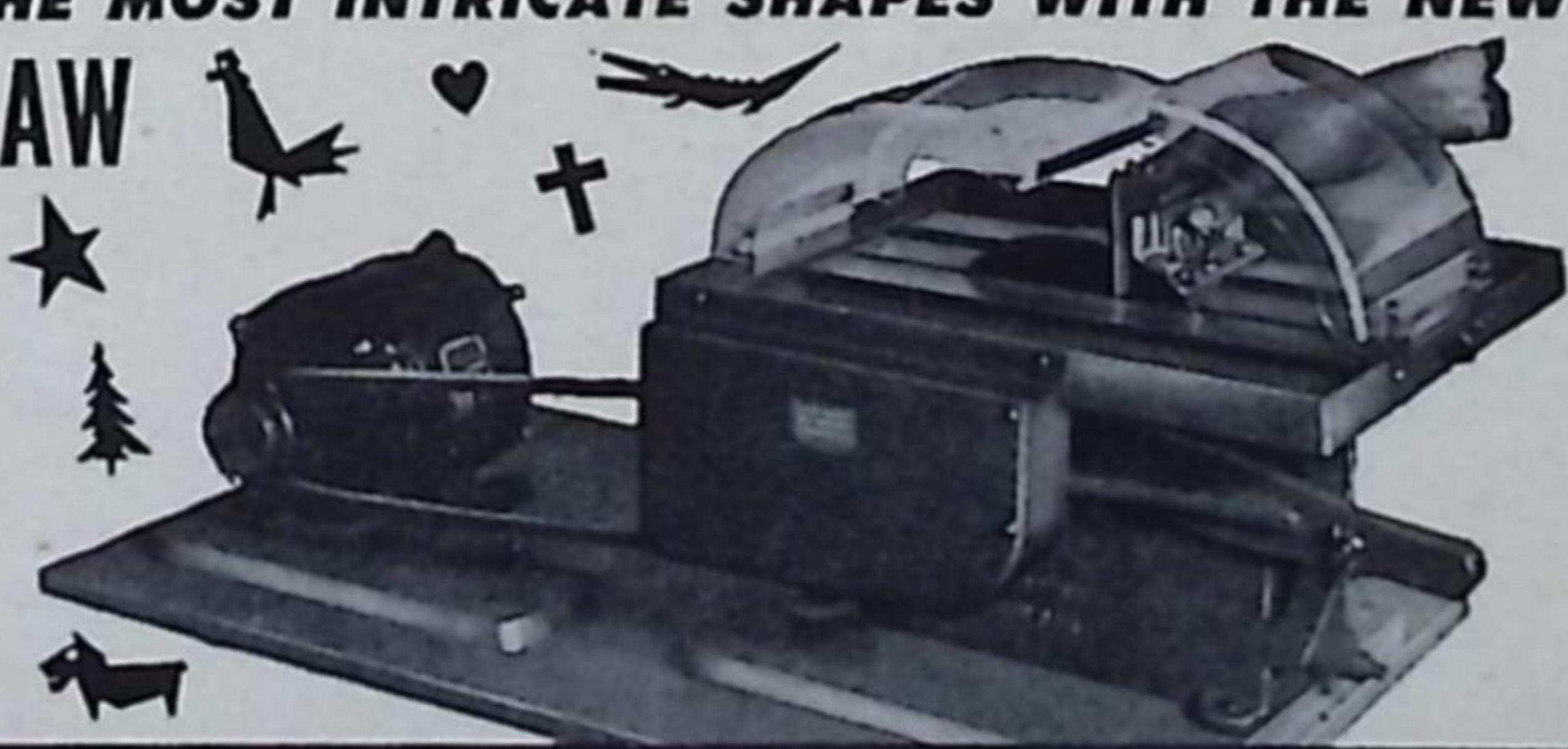
2753 HAWTHORNE STREET

"Build"

FRANKLIN PARK, ILLINOIS

NOW... YOU CAN SAW THE MOST INTRICATE SHAPES WITH THE NEW HILLQUIST TRIM SAW

Here's the trim saw that has everything that any rockhound could ask for: Exclusive raising and lowering arbor permits perfect angle cuts at any depth—adjustable spray guards—all-metal construction—extra long rigid arbor—double ball bearings—grease pressure lubrication—precision rock clamp—cut-off guide—large table size—and many other features. With the Hillquist Trim Saw you can do work you'd never attempt on any other machine. Immediate delivery! \$57.50 f.o.b. Seattle complete with 8" saw, belt, and motor pulley. Crating, \$2.00 Ship. wgt., 65 lbs.



Lapidary EQUIPMENT CO., INC.
NATION'S LARGEST MANUFACTURERS OF FINE GEM-CUTTING EQUIPMENT

1545 WEST 49th ST.
SEATTLE 7, WASH.

◆ *A Flexible Diamond Lap*

By GEORGE E. STEELE
37 Mason Boulevard, Toronto, Canada

A good many of our Canadian cutting materials suitable for cabochons are badly shattered, either by nature or by man. Many of our most attractive feldspars are so thoroughly crisscrossed by natural cleavage that they come apart in one's fingers when sawed into slabs. Add to this that they are mainly obtained from quarries where dynamite has been used. Anyone trying to cut and polish our sodalite has had difficulty with its cobweb of cracks.

For many years my collection of cut stones was notable for the absence of local pieces. The reason was that the few which were finished did not compare in surface polish with other cutting material on the market. The grinding and sanding operations simply increased the width of a crack or emphasized a soft spot. Where a material had pronounced cleavage, as in peristerite, the thin edges at cleavage marks tended to chip even with very fine abrasives. This left parallel lines on the face of the stone which would not polish out.

What was needed was an extremely fine abrasive on a flexible backing, slow but free cutting, with the grains firmly held so that they would not roll. This would be used as a final finish before polishing or for final polishing. A flexible diamond lap seemed to be the answer.

A friend in the diamond business (J. K. Smit & Sons of Canada, Ltd.), made up an experimental drum-head lap from soft leather. The diamond dust (#6) was applied by a patented process to the leather.

The compound used was insoluble in water so that the lap could be used wet. Results show that it cuts faster when wet. It tends to polish a surface when used dry. Heat is generated in the stone when the lap is used dry so that care must be taken. The lap has worked out better than anticipated. It is now used on all stones which give difficulty with ordinary sanding.

For stones of a shattery nature, or with pronounced cleavage planes, the fine

diamond cuts so smoothly that lines or cracks are not enlarged. This includes the various feldspars such as labradorite, peristerite, amazonite and sun-stone. In many cases, where they are really only weakness lines, they disappear completely. In any event, the edges are not chipped, nor do they undercut. Only enough water is used to clear off the cuttings from the stone.

In polishing such stones a wet leather drum-head lap with tin oxide or cerium oxide is used. A mirror finish can now be produced on stones which previously were not good enough to show.

The method works well on stones having variable hardness. Chlorastrolites and zonochlorites, having soft inclusions, can be given an even surface and fine polish on this lap alone. First, with a wet lap, smooth the surface. Then, letting the lap dry, use it as a polishing lap. No further polishing is necessary. It will work equally well on thomsonite, jade and moss agates. One of the most difficult jobs accomplished was with Lake Superior agates, having narrow inclusions of crystalline calcite. The calcite did not undercut. Opal in matrix often gives great difficulty. The soft ironstone either refuses to polish or undercuts badly. Good results have been obtained by polishing on the lap when dry. As a pre-polish after sanding on sodalite it improves the surface greatly.

The first cost of the lap is high. My drum-head holder takes a 9" lap. However many hundreds of stones have been finished on the first experimental lap. It is still in use. On a second lap, certain corrections in the quality of the leather have been made to further increase the life.

Now I am proud to show the stones collected in our locality, along with the best from other districts. Given the proper treatment they show up well by comparison.

These results are offered with the hope that others will be able to get a satisfactory finish on pet stones which have resisted their best efforts.

A Letter of Thanks . . .

To The Amateur Lapidaries of America—

Thank you for the many nice letters received.

The response to my advertisement in the last *Lapidary Journal* has been amazing. **TEXAS BOUQUET AGATE** was offered on a "satisfaction guaranteed or money refunded" basis. No one asked for a refund and almost 50% of the customers thus far have sent for additional material.

If you haven't read the article on **BOUQUET AGATE** and seen the illustrations in the August *Lapidary Journal* you should get out your copy and look it over.

TEXAS BOUQUET AGATE is a *new* material. **TEXAS BOUQUET AGATE** is a *rare* material. **TEXAS BOUQUET AGATE** is one of America's most beautiful moss agate gem materials.

This material is quite limited. I also have red plume agate and cabochons of Texas Bouquet in lapel pin or scatter pin sizes. Inquire for prices.

Stop in and see me if you drive through Alpine. Watch for the trailer at the motel on the right as you drive East out of town.

Sold in slabs only. You see what you get. Selections of \$5.00, \$10.00 and \$20.00 in various colors sent postpaid.

Satisfaction guaranteed or money refunded.

A. J. BURGARD

BOX 868

ALPINE, TEXAS

Fine Agate Jewelry For Sale

NOW!

**MODERN TIFFANY
MOUNTINGS**

in

14 KARAT GOLD

for

**TITANIA, ZIRCON
or other BRILLIANTS**

5 m.m. — **7.00**

6 m.m. — **7.50**

7 m.m. — **8.00**

8 to 10 m.m. — **10.00**

plus taxes

Send for Literature

THEODORE'S

Jewelers to the Craftsman

P.O. BOX 292 GLENDALE, CALIF.

RUTANIA!

Why not? Everybody has a new name for the new sensational synthetic rutile. Here is our "contribution." But whatever you may want to call it we have it, that is, if we can keep up with the orders. Eastern quality of hardness 7 to 7½. Prices?

Less than 1 carat—\$12.50 per stone
1 carat to 3 carat—\$12.50 per carat
3 carat or over—\$10.00 per carat

★ ★ ★

We have crystallized minerals for the collector (We have no private collection — for sale. But we have many specimens for private collections!) Cabochon cutters — Paisley agate, 20c sq. in. Sagenite, Chuckawalla or Nipomo, 50c sq. in. Wyoming Jade, \$1.25 sq. in. (watch this go!)

Lapidary Equipment and Supplies

Covington Lap Kits and Super Charged saw blades

MDR Master Facet Units and Trim Saws

Poly Arbors and Safety Guards

Great Western Slabbing Saw (the best yet)

Dealer for Mineralight Products

Fast Mounts, Riker Mounts, Picks, Loupes etc.

Silversmith Supplies

Dixon Tools, Silver, Chain, Findings

STORE HOURS

Monday through Saturday 9:30 to 5
Open Friday evenings; Sunday by appointment

Orange Coast Gem Crafts

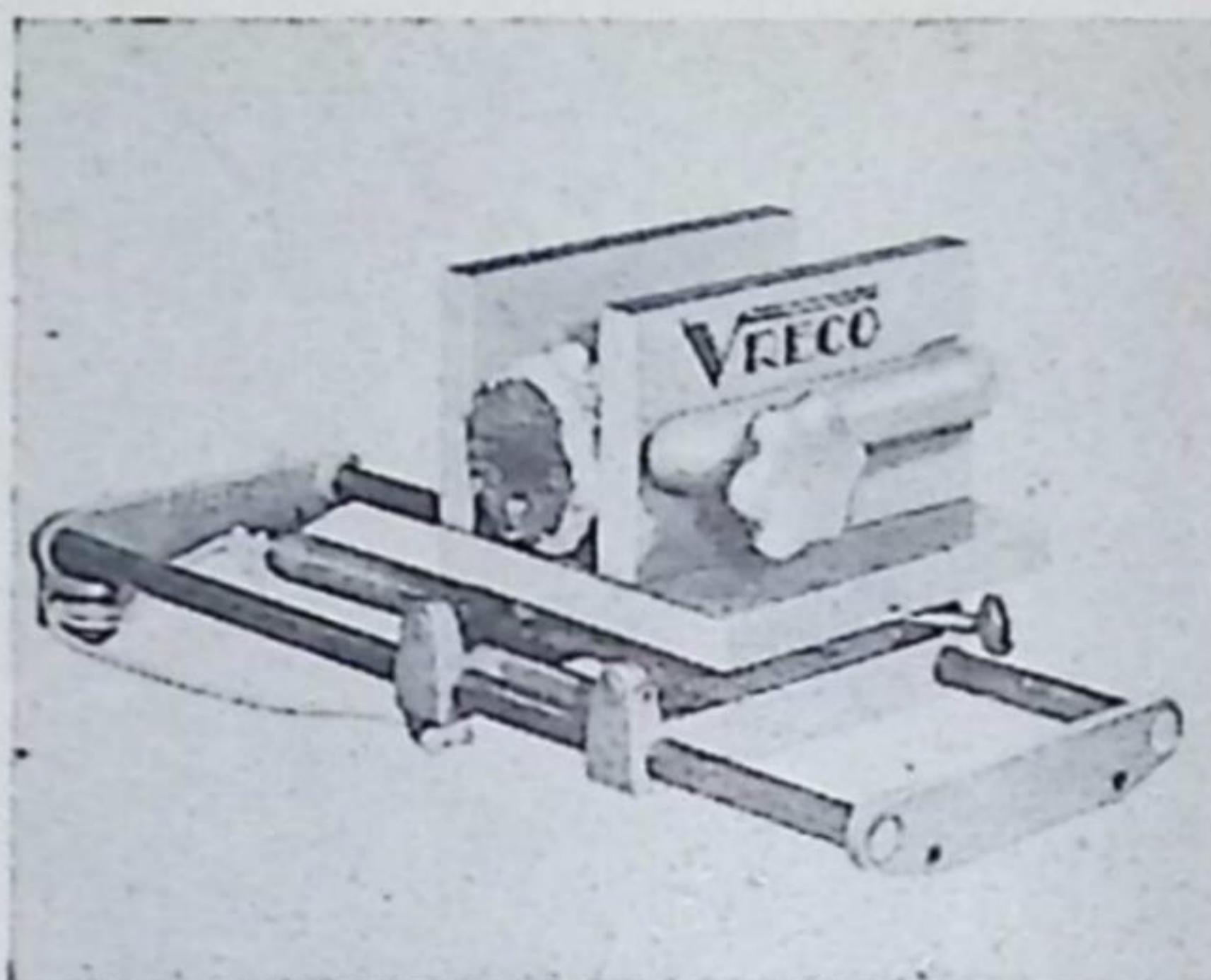
1106 Coast Highway
Corona del Mar, California

VRECO SIDE ARBOR

Self Oiling Oilite Bearings.

5/8" Shaft. Easily mounted on side of your saw box.

Price . . . \$9.00



It's difficult to get along without the
SARTWELL GEM DRILL

The automatic drill that does all of the work while you go about your other work.

This drill has been placed in many schools and is an old standby in many large lapidary shops.

Drill the easy way.

Price . . . \$49.50 F.O.B.

Send for illustrated circular.

The Sartwell

Shipped with
drill tube

Price . . .

Sterling Silver Button Backs

1/2" . . . 3 for \$1.00 \$3.00 doz.

5/8" . . . 45c ea. 4.50 doz.

1" . . . 60c ea. 5.50 doz.

Cement for attaching cabochons to button backs . . . 25c a vial.

New

Sterling Silver Lavalliere Mountings

This is a new number that has never been shown. Sterling silver with gold filled decorations.

Will make your cabochons look like a million dollars.

Two sizes . . . 18 x 25 mm and 13 x 18 mm

Complete with 18" S.S. Neck Chain.

\$2.50 ea.

Add 20% Excise Tax.

GEM PROSPECTORS

What to look for

12 Gem specimens packed in a pocket size box for field comparisons.

Sent postpaid . . . \$1.25

STAR GARNETS

Guaranteed to show a star.

Each piece has been ground and polished to show the star. Orient so that the lines cross, cut and polish and you have a beautiful gem.

Price . . . \$1.25 . . . \$3.00

\$5.00 . . . \$10.00

Above prices include Excise Tax.

STANOXITE

Fast Polishing Compound. Used by Lapidaries all over the world.

\$1.25 per lb.

3/4 carat & under . . .

1 1/2 to 3 carats . . .

BRILL

Cut

\$

12

A

Send 3c stamp
for price list of
equipment and
Supplies.



Open Every Day but Sunday

9 A.M. to 5 P.M.

Lowell R. and Florence Gordon

GOR

GEM AND MI

Dependable La

Build your own Diamond Saw RECO SAW CARRIAGE

type carriage with vise for materials
5 inch Diameter. 2 inch cross feed.
ideal for use with a 12" blade.
uctions for building this saw included.

\$22.50 F.O.B. Factory

23.50 F.O.B. Long Beach.

THE GEMPLAP

A complete grinding, sanding and polishing machine for **\$32.50 F.O.B. Factory.**
All accessories included at the one low price except motor.

Send for descriptive literature.

Jr. Gem Drill

all instructions;
and grits.

16.50 F.O.B.

For Grinding, Sanding and Polishing,
Use the Famous

POLY D-12 Arbor

Shielded ball bearings in cast aluminum housing.
This is the most popular arbor made.

Price . . . \$19.75

Brazilian Amethyst

for cabochons

5 pieces for **\$1.00**

Large enough for 8 x 12 mm stone.

ONE ONLY

Superb Aquamarine

17½ x 20½ mm. . . . 31 carats.

One of Brazil's finest gems.

Price . . . \$375.00

All taxes included.

NEW TYPE

Gold Filled Tie Holder

Takes a 10 x 25 mm cabochon.

Price only . . . \$1.00

Add 20% Excise Tax.

SUPER SPECIAL

Men's Sterling Silver Ring Mountings

Square, Oval and cushion

Three mountings **\$3.00**

Excise Tax Included.

Limit . . . one offer to a customer.

GIANT CUT TITANIA

by experts to show the maximum brilliance

50 per stone $\frac{3}{4}$ to 1½ carats **\$15.00 per carat**

50 per carat 3 carats and over **10.00 per carat**

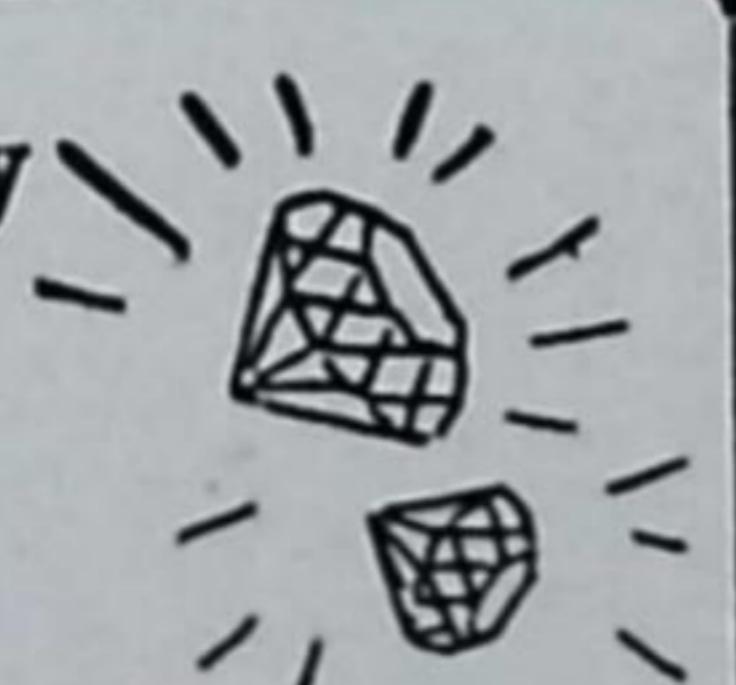
20% Excise Tax. Millimeter Sizes Available.

DON'S
GENERAL SUPPLIES
Secondary Equipment

1850 E. Pacific Coast Highway

Long Beach 6, California

Phone 7-3856



Gordon's
Green Gripper
Dopping Wax
\$1.25 per lb.



◆ *Personal Facets*

By LELANDE QUICK

As this appears we shall be on our way to New York where we expect to make an address on THE SECOND STONE AGE before an anticipated large group at the American Museum of Natural History on the evening of October 4th. The meeting will be sponsored by the New York Mineral Club and will be held at 8 p. m. in the fifth floor auditorium of the Roosevelt Memorial Building at the Museum. We hope that all of our subscribers and friends in that area (our home) will be there to greet us. The outcome of this talk should be the organization of a lapidary society in New York which, we hope, will mother many more societies in the area.

Following our appearance in New York we shall talk to the Cleveland Lapidary Society on October 17th and to the Detroit Mineralogical Society on the 19th. On Saturday night the 22nd we shall speak to a combined meeting of two societies in Chicago. See Page 282 for details. Later in the month we expect to speak to the Kansas City group but the date has not been arranged at this writing. Interested persons there should get in touch with Dr. Ralph Mueller in the Professional Bldg. in Kansas City. There may be changes in these plans so that our subscribers should check with their local mineral and gem societies as to the arrangements. These societies will welcome your presence whether or not you are members.

These talks are being given on our own time, while we are on a business trip for other interests, and we regret that we can take on no other engagements during our month away from the office so please do not try to contact us through the *Journal* office for other commitments.

* * *

There has been a lot of grouching among some of the societies about a lack of publicity for their shows. Some of this is justified but much of it is not. There are so many shows in 1949 that if all the publicity demanded of them was published in the magazines serving the societies there would be no room for the

articles you pay for. And besides that all the shows, with one exception, have been held in the west and we find that our eastern friends just don't care.

Let us examine the facts about the merits of publicity. No show ever received the hoorah and publicity given to the combined meeting of the California and American Federations in Sacramento in June. The metered attendance was 7400. The Rocky Mountain Federation meeting in Albuquerque had fine publicity everywhere—and it drew a pitifully small attendance of 250.

Now then the San Jose Lapidary Soc. drew more than 8000 people to its wonderful show and the Glendale Lapidary & Gem Soc. drew more than 7000. Neither of these societies received much publicity in any quarter and yet with a combined membership of less than 200 they drew more persons to their gem shows than all the Federation shows this year. The obvious lesson to be taken from this, we believe, is that the public responds to the magic of the word "gem" more than it does to the word "mineral." They respond so well that a little item in the local paper or a mention on the local radio will bring capacity crowds. It is obvious that national magazine publicity other than a mere listing of the dates is of little help. Attendance at any gem or mineral show is so predominantly local that publicity should be predominantly local too.

* * *

As this is written there is a well intentioned movement to organize a lapidary association. And as this is written we have no clear cut opinion about the matter. There is a lot of truth in some of the statements in Dan White's paper. Dan was the first President of the Glendale Society and he freely passed out copies of his thought on a lapidary association at the Glendale show. Dan said that if ten societies associated and gave one big show and each one was allowed to have fifteen cases that it would take the visitor almost three hours to devote one small

DEALERS ATTENTION!!!

Have you seen the
NU-FOAM
Gem Display boxes?

Reasonably priced
Fast Sellers
Good profit Margin
Prices on request

R and B Art-Craft Co.
11021 South Vermont Avenue
Los Angeles 44

RICOLITE

This is becoming increasingly popular for buttons. Green with gray and yellow in sawed chunks about $\frac{1}{4}$ lb. each. \$1.00 lb. postpaid.

BADLANDS CHERT

A new material in pastel shades of yellow, tan, pink, purple, etc. Wavy bands and solid colors. Makes lovely buttons. \$1.25 lb. postpaid.

JET BLACK OBSIDIAN

Fine jewelry quality \$1.15 lb.

MONTANA AGATE

Spots, bands, colors 1.00 lb.

NEVADA GEM WOOD

Superb reds and browns .. 1.25 lb.

Keweenaw
AGATE SHOP
AHMEEK, MICH.
ONLY
THE
BEST
VIOLET L. LUOMA
Manager

★ ★ ★

HILLQUIST Complete

FACETING UNIT

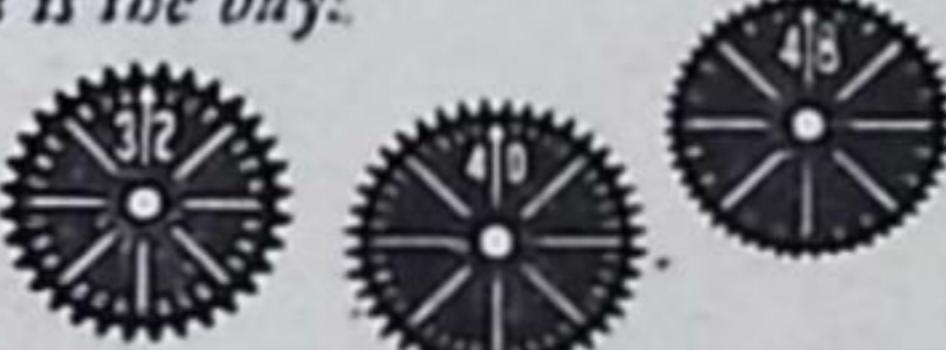
ONLY \$62.50



THE BIGGEST VALUE EVER
OFFERED IN FACETING EQUIPMENT!

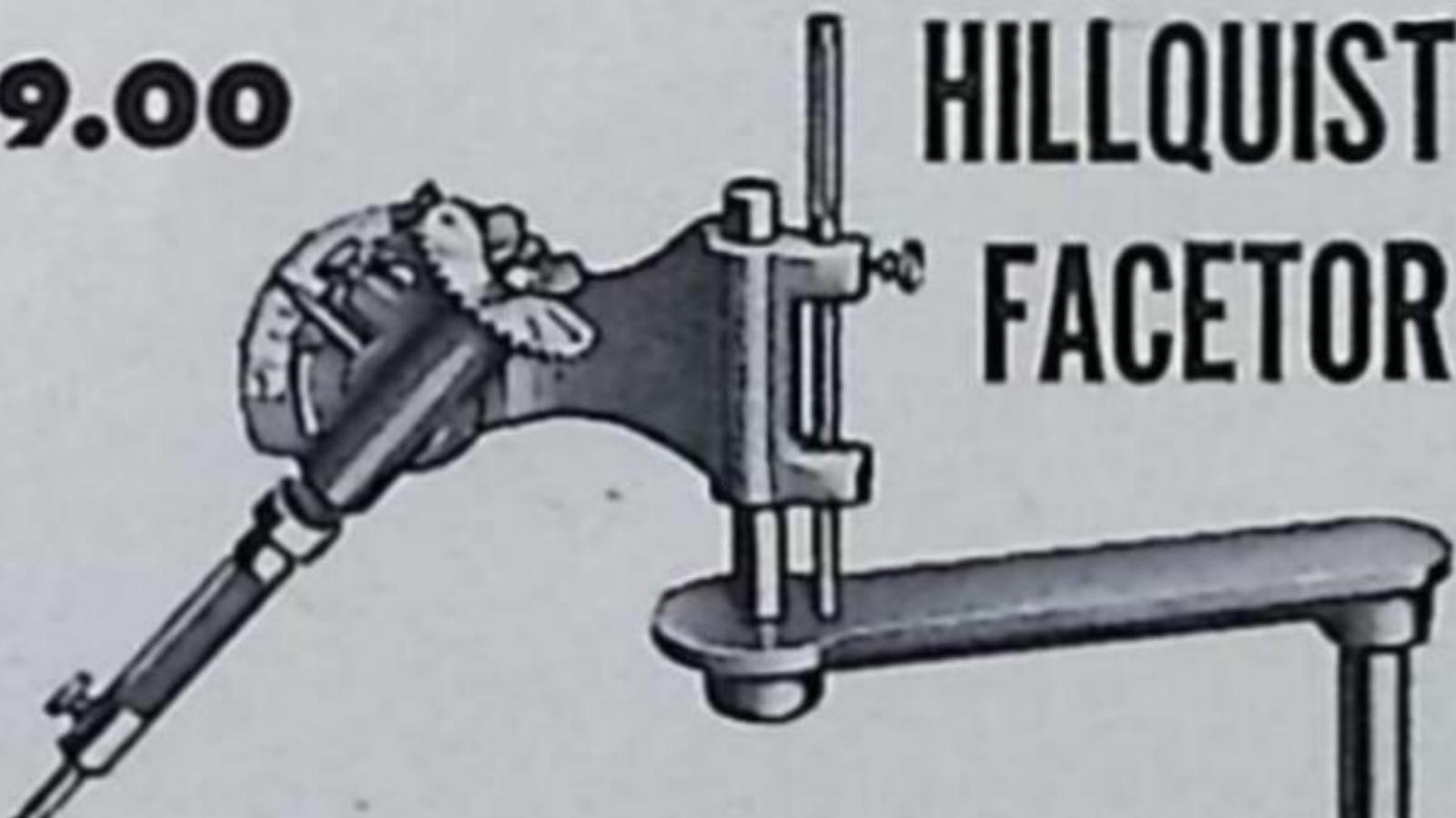
You can spend \$150.00 or more for other faceters and not get as much for your money as this new, complete Hillquist Faceting Unit gives you for only \$62.50. When you compare the ease and speed of operation, the precision construction, the fine work you can do, the amazingly low cost, then you, too, will say, "Hillquist is the buy!"

You get three index plates without extra cost (32, 40, and 48 positions).



Finest materials and construction are used thruout. The spun aluminum splash pan is quickly removable so that pans for different grits can be used. The 8" Master Lap is precision machined of cast aluminum. Shaft is $\frac{1}{2}$ " with ball thrust bearing and full $3\frac{1}{2}$ " babbitt fitted sleeve bearing with grease pressure lubrication. Stand is swivel mounted so that any position on the lap can be maintained. Price includes three index plates, two double-end metal dops, hose, clamp, pinch cock and V-belt. All for \$62.50 f.o.b. Seattle.

\$29.00



HILLQUIST FACETOR

There is no better facetor made. The finely graduated indicators, precisely controlled adjustments and precision construction permit you to do the most exacting work. Many persons express surprise at the ease with which they are able to produce intricately faceted stones. R. G. M., Seattle, professional lapidist, writes, "I am certainly pleased with my Hillquist Facetor. Due to its precise construction, I have been able to do some very fine work. I recommend this facetor very highly." Price includes 32-position index plate, 40 and 48 position plates available at \$3.50 each. Adapter socket, \$2.00.

Adapter permits use with any lap.

LAPIDARY EQUIPMENT CO.

1545 W. 49TH ST. SEATTLE 7, WASH.

WRITE FOR FREE CATALOG

EVERY ROCK HOUND

has the JEWELER'S ART in his nature. Make your Hobby doubly fascinating and remunerative. Turn your HOBBY into MONEY. Learn how to design and make beautiful mountings that will harmonize with your stones.

JEWELRY THE LARGEST AND MOST COMPLETE JEWELRY SCHOOL

16 rooms and 11 instructors devoted to teaching all phases of this trade. Our faculty is made up of the NAME MEN of the JEWELRY industry. When being shown through the school you will enjoy talking to our students about the instruction given.

APPROVED FOR VETERANS

There Just Never Was A Chance Like This

LOS ANGELES SCHOOL OF JEWELRY

1007 W. 96th Street
(At Vermont Avenue)

PLymouth 5-4727 Los Angeles, Calif.

HARRY M. KOONS, Director

RECOMMENDED

GEIGER COUNTERS

For Detection of Uranium

SEND FOR FREE LITERATURE

Model DG-2 DETECTRON \$98.50 complete
Model C-11 FISHER M-SCOPE \$135.00
Model F-4 RADIATION DETECTOR \$125.00

ULTRA VIOLET LAMPS

& BLACK LIGHT UNITS

MINERALIGHTS \$12.50 to \$165.00

GLO-CRAFT PRODUCTS

R-V TUBE LAMPS

FLUORESCENT PAINTS

GLO-CRAFT AND R-V

Literature

FLUORESCENT GEMS & MINERALS

DeMent \$1.50

HANDBOOK OF URANIUM MINERALS

DeMent & Dake \$2.00

Plus 10c Postage

Please state your particular interests
when writing

SMITH'S FLUORESCENTS

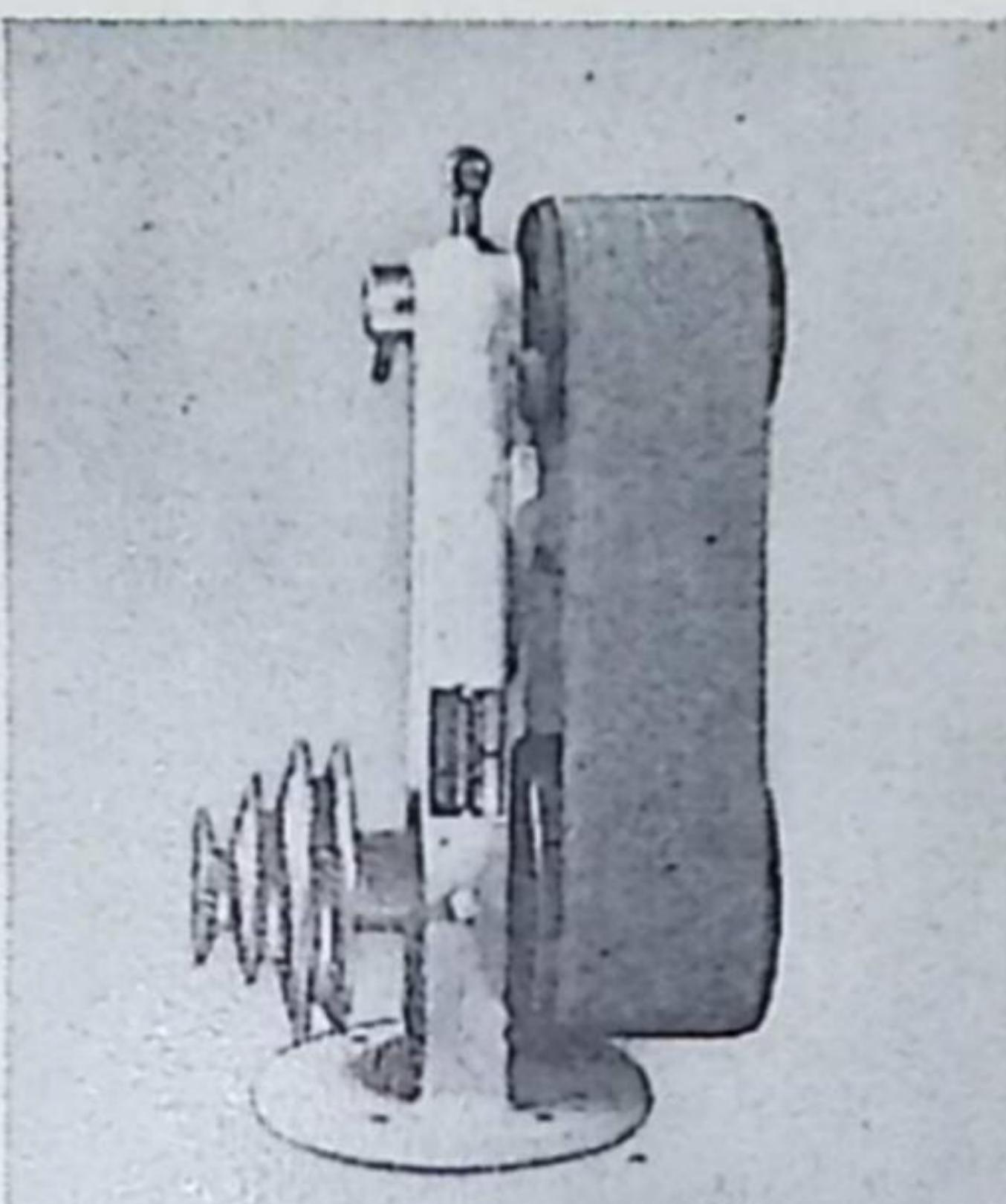
Room 311 — 220 S. W. Alder
Portland 4, Oregon

minute to each. If he lingered a few minutes at some interesting case and then visited the dealers for a bit it would take five hours to even casually glimpse the show.

As a member of a committee to investigate all angles of a national association we get more confused as we think of it. We are in a position to know that hardly 1% of all the active amateur lapidaries in America belong to any society anywhere. Therefore no association of the societies themselves could claim to represent the movement itself. We also know that the strength of our subscription list and the business of our advertisers, lies with the persons who never attended a society meeting and never will. We would like to hear from some of our readers about what good the present Federations have done for them or their societies. Many of them are active in their Federations and are qualified to offer good answers to this question and we'd like to print some of them; not to stir up any arguments but to stimulate a wholesome discussion and uncover some thoughts on the matter.

The thing that interests us most is to bring the blessing of gem cutting as a creative recreation to more people. Will little local shows do more to do that than some monstrous show? Local societies increase their membership from interested recruits at local shows. The Federation shows never help them much. The more we think about the matter the more we are at sea and we'd like to hear from others.

Therefore we offer \$10.00 in cash for the best letter we receive on the subject "Association Now" and another \$10.00 for the best letter on the subject "No Association Is Needed." If you have opinions here is your chance to offer your thought. And if you have opinions you'd like to offer but not publish please do so and mark your letter "not for publication." We need the thoughts of thinking people on this matter and we would appreciate hearing from our readers. Think it over seriously friends. Association could mean great good. Could it also stifle the initiative of individual societies? Would you *really* like to see only one show a year—and maybe never again see one in your own neighborhood?



NEW ALTA BALL BEARING GEM SANDER

Features

Extended shaft for putting on tapered buffing wheel mandrel
 Threaded for drill chuck
 Endless belts
 No bumps
 Runs cool with minimum of heat
 Resiliency with low and high tension
 Quick change from one belt to another
 Frame-aluminum casting
 Finish-Nassau green

BALL BEARING SANDER: Price	\$31.00
PLAIN BEARING SANDER: Price	18.50
BELTS: Woven polishing belt	2.60
3 Dry Belts (120, 220, 320 grit)	1.00
2 Wet Belts (280, 400, 600 grit)	1.00

Prices F.O.B. Pasadena, California. (Calif. purchasers add sales tax) Send postal for free literature

ALTA INDUSTRIES

LAPIDARY EQUIPMENT

Manufacture and Design
 915 East Washington Street
 Pasadena 6, California

Other Lapidary Equipment
 New Improved Alta 16-18 inch Power Feed Diamond Saw
 New Improved Alta Grinding Arbor and Trim Saw
 Alta Drill Presses

GORGEOUS FLOWERING ROSE AGATE

It's the gemstone that closely resembles dainty multi-colored rose-buds and flowers under glass.

IN A CABOCHON IT'S THE COLOR THAT COUNTS

If you are looking for a new and unusual agate that will cut colorful flowers in each cab, at a price anyone can pay, TRY FLOWERING ROSE AGATE.

A new location is now producing even more perfectly formed flowers, in more vivid and contrasting shades. Some blooms show four different colors.

The best recommendation for this fascinating new material is the many complimentary letters and reorders from satisfied customers.

NO! The supply is NOT LIMITED at present, which enables us to sell at this reasonable price.

YES! We welcome the opportunity to take time and send slabbed samples for your personal inspection.

WE CAN NOW SUPPLY IT ROUGH OR SLABBED.

Send \$1.00 bill for slabbed samples and YOU BE THE JUDGE.

Selected Rough Flowering Rose Agate	\$2.00 per lb.
Slabbed Flowering Rose Agate35 per square inch
TURQUOISE—selected, fine blue	\$1.20 per ounce

We guarantee these materials will please you.

TERMS: All rough material—f.o.b. Pueblo, Colorado.

Cash with order.

Write for quantity prices.

W. S. KETTERING

1901 Lake Ave.

Pueblo, Colorado

♦ San Diego Show in October



Machinery display of the Society at the Fair

The San Diego Mineral & Gem Society will hold it's annual show in Balboa Park, San Diego, California, on Saturday and Sunday, October 15th and 16th. The show will be held in the Natural

History Museum, the regular meeting place of the Society. While smaller in scope than last year's fine show (see picture on Page 280) this show will stress quality of members' work and



Crowds at the San Diego County Fair lapidary demonstrations and display

★ BRIGHT COLORS ★ FOR ★ HAPPY HOLIDAYS ★

HOLIDAY VARIETY of Gem Quality Materials: This Choice Selection of Gem Materials for Cabochons and Facet Cut Stones are from our Regular Stock and are on our Price List or have been advertised in the Bi-Monthly Magazines. It includes 1 Lb. Mixed of the following: Chrysocolla, Amethyst, Colorado Amazonite, Montana Agate, Blue Beryl, and Colo. Red Agate; ALSO 1-Mordenite Pebble, 1-Ceylon Sapphire, 1-Pyrope Garnet, 1-Peridot, PLUS 1/4 Oz. of Australian Opal AND Your Choice of A Lovely Star Sapphire—OR—A Beautiful #1. Grade Facet Cut Light Blue Aquamarine. **ALL OF THE ABOVE GEM MATERIALS and THE GEM STONE YOU DESIRE TO MOUNT for \$14.57.**

TEST SLICES OF VARIOUS WESTERN MATERIALS: These Slices if Trimmed and Graded would sell from 25c to 45c per Square Inch. Sizes are from Approx. 1 Sq. In. to Approx. 6 Sq. In. and include various Moss Agates, Pattern Agate, Wood, Jasper, Etc. Colors range from White & Black, Clear, Reds, Browns, some Green or Mixed Colors. Slices Grade from an untrimmed Fair to Very Good Cutting Quality and many are only 1 or 2 of a kind. A Total of 24 Sq. In. of Mixed Slices PLUS 1-Fine Montana Agate Cabochon to Mount for \$7.17.

Colorado FLOWER AGATE. Gem Quality: Flower Agate with Lovely Colors for Cabochons. 1 Lb. for \$10.22.

TITANIA or Syn. Rutile: Top Quality Facet Cut Gem Stones of Green-Tint, Yellow and sometimes a Light Shade of Blue. Titania of Approx. 1/2 Carat for \$8.22; Approx. 1 Carat for \$16.24; Approx. 2 Carats for \$32.26; Approx 3 Carats for \$48.33.

COAL SPECIMEN: Fluorescent and Approx. 1 1/2" x 1 1/2" for 25c Each.

Prices include All Taxes, Postage and Insurance in The U.S.A. Write for our Large Price List. Visitors Welcome Afternoons (including Sat. & Sun.) Closed Thursday.

Nonneman's

P. O. BOX 324—DEPT. 8

SALINAS, CALIF.

Residence: 107 Church St.

Appointments made for same day—Phone 8483

DEAR FRIENDS:

Nice to know you want us to continue with the letter writing. You said "keep it up" so here we are again.

I am sure there are a lot of things we have that you would want to purchase if we would get around to telling you of them. But first we want to tell you something we think amusing.

Martie (Mrs. Stetson) decided to leave her facet cutting the other day to try her hand at mending a crack in the sink. She used plastic cement and being a bit near-sighted she donned her glasses for the job. Got a bit more cement on her hands than she did on the sink. After the job was done she removed the glasses not knowing she had cement on one leg (of the glasses of course!). All was serene in our shop until about an hour later when Martie called for help. She said she couldn't get her glasses off. It's a fact—she had put the glasses on again and the cement on the leg had glued to the back of her ear. For a time we thought she might have to sleep in her specs or be minus an ear. After maneuvering we got the things loose and a bit of the skin came with them. She says no one ever looks back of that ear any way. Oh yes, the sink repairing was a success.

• • •

We have cut some of that lovely Mexican Fire Opal we were telling you about. How can we quote prices when we have Opal in every size, shape and color. It runs from "bug eyes" to 40 carats. Priced from \$1.00 to \$6.00 per carat. If you will allow us to choose a selection (say so many carats of one price and so many of another) and send your remittance for the carats you order, then you can return any or all of them within 10 days of delivery and we will promptly refund your money if you are unhappy with our selection. How's that? Have some of the Mexican Cherry Opal too if you would like to see it. Also lovely Australian Fire Opal—any size, from \$1.00 to \$10.00 per carat. Please see August issue of the Lapidary Journal for other items and services. Can't write more now or Lelande will bill me for a full page.

Thanks so much for your fine letters and thanks again for your patronage. Sincerely your friends,

WHOLESALE

THE STETSONS

RETAIL

Gem Cutting and Jewelry Manufacturing

2550 Ridgeway Dr.

Phone G7-5371

National City, California



Scene at last year's San Diego Mineral & Gem Society's Show
Dan White, at extreme left, is getting ideas for the Glendale Lapidary & Gem Society's fine show this year held in August. Dan was first President of that society.

completeness of collections.

The Society has had a big year. Now grown to nearly 300 members, they have built 50 show cases of their own, operated eleven full days at the San Diego County Fair where 183,000 people (80% of the total admissions) visited their exhibit, held a regular monthly meeting and exhibit besides weekly classes and monthly field trips. Members have made over a dozen talks to local service clubs during the year on gem and mineral subjects. Having grown from 50 paid members in two years they now have a bank account in four figures, own much property like their cases, fluorescent lamps, typewriters, duplicating machine, a top mineral collection, and not a dime of indebtedness. During all this time, Ralph Salsbury, proprietor of the *Mission Mineral Mart*, has been President.

Through the great generosity and intense interest of member Solon Kipp (See article "Kipp's Shop" in the June 1948 *Lapidary Journal*) more than 60 people have completed a two year course in gem cutting and silversmithing and about 30 members can facet as well as the best professionals. Their display this year will be the best ever.

VOLUME ONE (4 issues)
and
VOLUME TWO (6 issues)
now available bound
\$5.00 each
California Purchasers Add Sales Tax
Lapidary Journal
Box 1228 Hollywood 28, Calif.

Covington **DIAMOND BLADES**
"Treat yourself to the best."

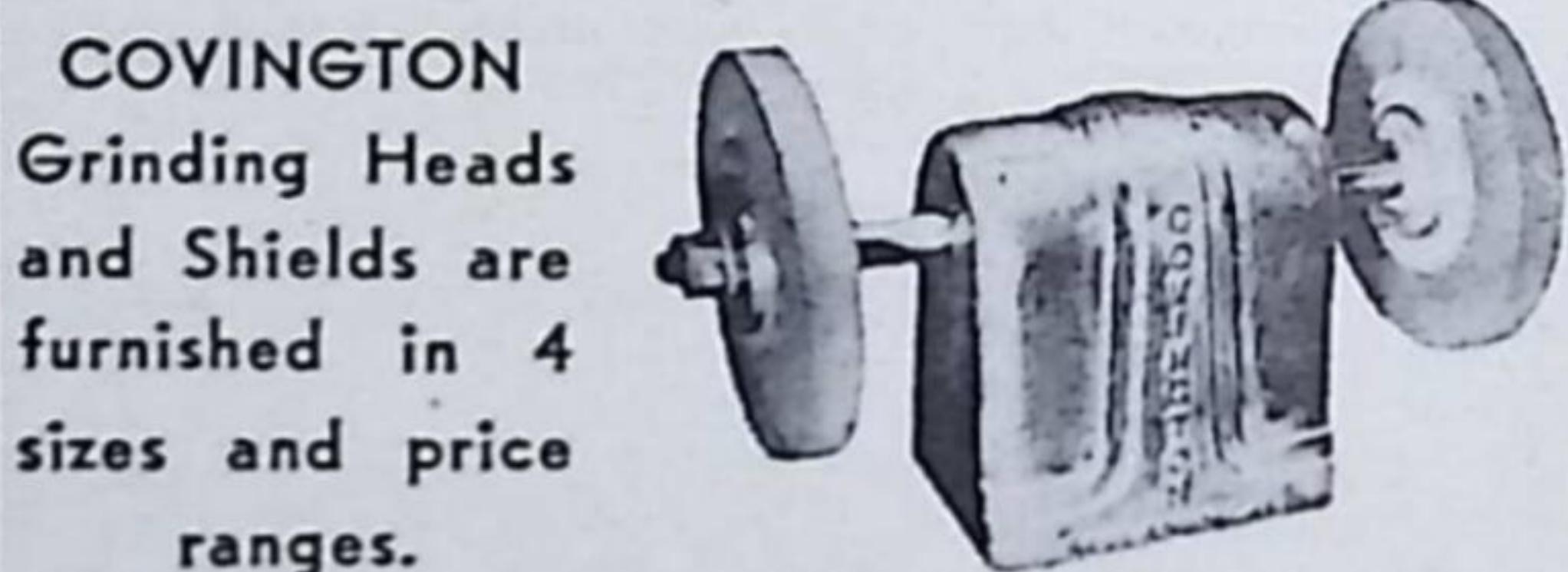


	Heavy-Duty Super-Chgd.	Super- Charged	Standard Charged
6"	\$ 8.70	\$ 7.70	\$ 6.75
8"	12.75	9.90	8.95
10"	15.75	12.95	11.95
12"	21.80	18.95	15.75
14"	32.30	24.95	21.85
16"	36.40	27.85	24.75
20"	66.30	44.20	33.95
24"	79.30	55.90	43.75
30"	127.25	106.95	State Arbor Size
36"	192.20	159.95	

sales tax in California.

Allow for Postage and Insurance.

COVINGTON
Grinding Heads
and Shields are
furnished in 4
sizes and price
ranges.



COVINGTON 8" Trim
Saw and Motor are
compact and do not
splash Koolerant.

BUILD YOUR OWN LAP
with a
COVINGTON
12" or 16" Lap Kit.



COVINGTON
16" Lap Unit
COVINGTON
12", 14" or 16"
Power Feed
Diamond Saw
Send 3c Stamp
for Catalog

COVINGTON LAPIDARY ENG.
2nd & Highway 99, Redlands, Cal.

Have You Tried?

Our sphere materials:

Petrified dinosaur bone
Variegated "onyx"
Petrified woods—Ricolite
Seven devils
50c a pound in the rough plus postage

Our cabochon approvals:

Assorted Selections or the
Famous Colorado Plume Agate group
Price range \$1.00 and up.

Our slab approvals:

Assorted selections or
Your choice of materials

Our gift merchandise approvals:

Gold or silver jewelry
Gemstone buttons, Photo scenic lamp
shades, etc.

What are your needs?

We are at your service.
Correspondence invited.

SHIPLEY'S MINERAL HOUSE

Gem Village Bayfield, Colorado

COLORADO AQUAMARINE

Few realize that gem quality of this
superb gem is found in the United
States.

We have purchased the entire find of
a prospector, claimed to be the finest
Aquamarine found on Mt. Antero in for-
ty years. Mined at 14,000 feet elevation
it is not possible to obtain more this sea-
son, so this item is a real rarity.

Rough crystals, \$1.00 per gram. Facet
preforms, \$2.00, \$3.00 and \$4.00 each.
Some splendid cut gems on approval
memo to old customers.

Our preliminary 1950 catalog is now
in the mails. Packed with many new
items, blanks, rough slabs, preforms and
finished gems, as well as the pick of gem
cutting supplies.

If you have not received your copy,
write, mentioning the *Lapidary Journal*,
and receive it free.

THE GEM EXCHANGE

(Gem Village)

Bayfield, Colo.

ZIRCONS

2 1/2 m.m. to 3 1/4 m.m. Brilliant cut.

Nice for "dressing up" your jewelry.

50c each (plus 20% tax)

Desk Pen & Holder — \$3.50

With unpolished, drilled slab (heavy) of
Death Valley "Onyx" (Calcite) — \$5.00

Finish it yourself

(Make the boss think you're
some punkins this Xmas)

Add Postage on All Mail Orders
Excess will be returned

California Residents Add 3% Sales Tax

Valley Art Shoppe

21108 Devonshire Boulevard
Chatsworth, California

ARE YOU SURE?

Do you know your minerals? Be cer-
tain of the name of your minerals
—don't just guess. For help in de-
termining what you have, we offer:

10 power hand lens \$4.95

Mohs Hardness Scale with Alnico
magnet and streak plate 2.00

Getting Acquainted With Minerals
by English 3.25

Handbook of Fluorescent Gems
and Minerals by DeMent 1.50

For fun and laughs, don't forget our can-
dy pebbles 75c per lb. postpaid.

California residents please add sales tax

Bowers

110 N. MILPAS ST.
SANTA BARBARA, CALIF.

CALENDAR OF EVENTS

October 4—NEW YORK MINERAL CLUB—Lecture by the Editor at 8 P. M. in the Auditorium of Roosevelt Memorial Building of the American Museum of Natural History. Entitled THE SECOND STONE AGE, the talk will be sponsored by the oldest society in America. Anyone in the New York area interested in gem cutting or silversmithing is welcome to attend and is urged to do so. A registration will be taken and a lapidary society formed following the meeting.

October 15-16—HOLLYWOOD LAPIDARY SOCIETY—Gem and jewelry show. See item on Page 298.

October 15-16—SAN DIEGO MINERAL & GEM SOCIETY—Gem and mineral show. See article on Page 278.

October 15 to 23—MIAMI MINERAL & GEM SOCIETY will exhibit at the First International Invention & Hobby Show in the Miami (Fla.) Civic Auditorium.

October 17th—CLEVELAND LAPIDARY SOCIETY—Lecture by the Editor at 7:30 P. M. in the Mineralogy Bldg. of Case Institute of Technology. Anyone in the Cleveland area interested in gem cutting and jewelry craft is welcome to attend.

October 19th—MICHIGAN MINERALOGICAL SOCIETY—Lecture by the Editor at 8 P. M. at the Cranbrook Institute of Science at Bloomfield Hills. Anyone in the Detroit area interested in gem cutting or jewelry craft is welcome to attend. A registration will be taken and a lapidary society formed following the meeting.

October 22nd—Lecture by the Editor before a joint meeting of Chicago Rocks & Mineral Club and Marquette Geologists. Non-members are welcome to attend. Chicago Academy of Sciences, Lecture Hall, 2001 N. Clark St., Chicago at 8 p.m.

October 25th—Lecture by the Editor at Kansas City. Anyone interested in gem cutting or jewelry craft is welcome to attend. For time and place call Dr. Ralph E. Mueller in the Professional Bldg.

November 11-12—CLARK COUNTY GEM COLLECTORS (NEV.)—Gem and Mineral show. See article on Page 268.

November 12-13—LONG BEACH MINERAL & GEM SOCIETY ((Calif.)—Mineral & gem show at Sciot's Hall, 6th & Cerritos Sts., Long Beach, Calif.

November 19-20—ORANGE BELT MINERALOGICAL SOCIETY (San Bernardino, Calif.)—Mineral & gem show. Industrial Bldg. of the National Orange Show at San Bernardino.

COLLECTIONS FOR COLLECTORS

We have individual specimens, reasonably priced, and complete mineral collections from 50 boxed ores at \$4.00 to museum collections of 550 3x4" superb specimens for \$2,000.

If you are looking for any mineral to complete a set or a series, consult us. We have many scarce items.

We specialize in mineral sets for gift shops and mineral supply stores.

Dealers' Inquiries Invited

Send for large *free* price sheets listing hundreds of items.

ECKERT MINERAL RESEARCH

110 E. MAIN ST.

FLORENCE, COLO.

HAND FINISHED \$1.00 each READY TO SET

Sizes 9 to 12



#4M
12x18 M.M.
open seat



#5M
3 compartment
inlay
5x12 M.M. channels

#6M
17x24 M.M.
oval



#7M
14x20 M.M.



Add 20% Excise Tax

Specify Size Desired

Minimum Purchase \$4.00

ARMSTRONG JEWELRY & CASTING CO.

Box 1355

Miami, Ariz.

IN STOCK

Azurite, Aventurine, Amethyst, Aquamarine, Beryls, Bloodstone, Citrine, Chrysoberyl, Cordierite, Emeralds, Garnets, Onyx, Opals, Rubellite Tourmaline, Topaz (yellow and blue), King Helmet shells for Cameos, and many other fine rough materials for cabochons and faceting.

★

A. G. PARSER
INCORPORATED

15 W. 44th St., New York, 18

Send for free price list.

DON'T WASTE YOUR PRECIOUS MATERIAL!

Use the New

Streamliner

SLITTING SAW

\$2950

F.O.B. SAN DIEGO

Including Blade

3% Sales Tax in California

Write for Information

HYATT LAPIDARY EQUIPMENT CO.

Box 366, Dept. J

San Diego 5, California

MOTHER LODE PICTURE AGATE

GOOD NEWS!!!

We have at last opened up a new lense of our Mother Lode PICTURE AGATE and it's as good as the first lot, with two-color dendrites, trees, bushes, and scenes.

As we don't have time to saw up this material, have decided to offer it IN THE ROUGH, unpicked mine run material, at \$1.00 per pound. 25 pound lots for \$20.00 or 100 pound lots for \$75.00.

All prices f.o.b. Please add postage for parcel post shipments.

Satisfaction Guaranteed

ROBERT O. BUCK

P.O. Box 218

Valley Springs, Calif.

G ————— G Texas Agates & Jaspers

5 Pounds Red Moss	\$5.50
5 Pounds Blue & Gray Banded	\$3.50
5 Pounds Desert Rose Coated Fine Interior agate, some fractures	\$4.00
5 Pounds Bacon & Wing agate	\$3.00
5 Pounds black encrusted Gr. Agate, Sc. Band	\$5.00
5 Pounds assorted Jasper.....	\$3.00
5 Pounds Field Run Texas Agates...	\$3.00

Highland Park Saws and Arbors
Bay State Grinding Wheels
Perry Trim Saws
The Gem Maker
Felker Blades

*All materials postpaid,
Satisfaction Guaranteed*

"If we haven't got it, we'll get it"

GAULT

Aqua Dulce

Texas

◆ *Answers to Inquiries*

NOTE—This department is one of the most important sections of the LAPIDARY JOURNAL. If you have problems write us about them. We will get the answer somewhere. And if you don't agree with an answer, give us your idea. A lively and useful Q and A department should become an encyclopedia of gem information through the years. Will you help?

Inquiry of George Lobdell, Albany, N. Y.

I have made numerous imitation star sapphires by using asteriated quartz backed with thin blue mirror. I have noted lately that the same stone is made but using blue enamel that is baked on. Can you tell me what this process is and what enamel to use? Do you have to put a polish on the back of the stone?

Answer:

To answer the last question first you should put a polish on the back of the stone if you want to enhance the reflection of light from any manner of backing you adopt. There are several commercial processes on the market where the back of the gem is coated with some substance but no information is available at this time as to the substance used. These stones look more like genuine star sapphires than any mirror backed doublets we have seen. This is probably because the gem is all stone and not partly glass, which gives the gem portion greater depth.

A word might be injected here about the new synthetic corundum star sapphires and rubies. The method of getting the star phenomenon into these truly beautiful gems has never been revealed and much conjecture has taken place about it. An accomplished lapidary friend of ours tried to "take one down" recently; to reduce the height of the cabochon to be more in keeping with a mounting he had. He ground off the top surface and whoosh!!—the star was gone. It never came back when the surface was newly polished. Can it be that the star is put on after the cabochon is ground? We would be glad to receive advice on this matter, or about the so-called "enameling process", from any informed readers.

The same correspondent also asks "what is used for polishing apatite?" Use Linde A. polishing powder on a type metal lap—and plenty of cussin'.

* * * *

Inquiry of Bernard L. Kirkpatrick, Brookline Station, Mo.

Recently the literature has contained numerous discussions on the dangers involved in discarding old fluorescent lighting tubes. It seems that if these are broken and the tiniest bit of the powdery coating lining them comes in contact with a broken place on the skin the resulting wound will not heal without benefit of surgery. This is attributed to the presence of beryllium compounds in the fluorescent coating.

Are stone cutters subject to similar hazards when working with or handling beryls such as aquamarines, emeralds, morganite or other beryllium containing minerals?

Answer:

We do not believe there is any danger of beryllium infection in gem grinding beyond the real, and too often pooh-poohed, danger of breathing any kind of dust to excess. Well acquainted with medical literature (which we read constantly as we are in the pharmaceutical manufacturing business) we have never read of silicosis in a lapidary or of beryllium infection in the bloodstream because of gem grinding. This fluorescent lamp deal was just another of Walter Winchell's Sunday-nightmare inducing broadcasts.

Royal Flower Agate

World's Finest Colors and Designs

NEWLY MINED native chunks of agate with ferns, flowers, feathers, plumes, blooms, blossoms, bushes or shrubbery with after frost effect on sumac, ferns, sycamore, oak, quaken aspen and many others.

COLORS are canary to golden yellows with bright and blood-red inlays of beautiful leaves and other designs in clear and mixed with other colors.

CHUNKS priced \$1.00 to \$5.00 per ounce.

SLICES priced \$1.00 to \$5.00 each, depending on size and rarity.

MOSS AGATE in the variegated and many colors are now in stock. Also petrified woods, malachite, blue agate (chrysocolla), deep red (ruby) garnets, amethyst crystals and others.

WE WILL SLICE, chunk or cut stones to order with a money back guarantee. A chunk, chip or slice of any rock for any price.

Satisfaction Guaranteed 5 Days.

Arizona Agate Mines
CAVE CREEK ARIZONA

Colorful New Mexico Agate. Moss and Fortification. Good grade Chrysocolla, Solid Malachite, Onyx, Ricolite—Ideal for ash trays, book ends, desk sets and carvings.

Western and Desert photographic lamp shades in rich full color. Lamp Bases and Vases in pink Alabaster from Colorado. Mineralights. Blades of all sizes. Lapidary Equipment.

All Reasonably Priced.

Demonstrating the
Great Western Saw.

When in Compton, Visit the

Compton Rock Shop

1409 South Long Beach Blvd.
Compton, Calif.

Open daily, except Mondays,
10 A.M. TO 8 P.M.

FIRE OPAL - MEXICO

10 small pieces—average 1/2"-3/4"	\$1.00
5 larger—average 3/4"-1"	1.00
6 still larger—1"-2" or over ..	2.00
1 small vial clear fire opal....	1.50
50 rough mixed Mexican Opals, including honey, cherry, etc., average 1"	1.50

ALL 5 LOTS POSTPAID—\$6.00

Although these are sold chiefly as cabinet specimens and have plenty of fire, many of them will work up into nice cabochons.

**Money Cheerfully Refunded if Not
Entirely Satisfactory**

Polished Mexican Opals and other gem stone cabochons on approval to responsible persons.

DR. RALPH E. MUELLER

3701 Valentine Road Kansas City 2, Mo.

MONTANA AGATE

No trees—but colors, bands, some spots and speckles

NO BLANKS

5 lbs.	\$ 2.50
25 lbs.	8.00
100 lbs.	25.00
1000 lbs.	200.00

Fine for specimen work and for the hobbyist who spends time on each set.

FOB Lemmon, S.D.

**WHEELER'S
NATIVE STONE JEWELRY**

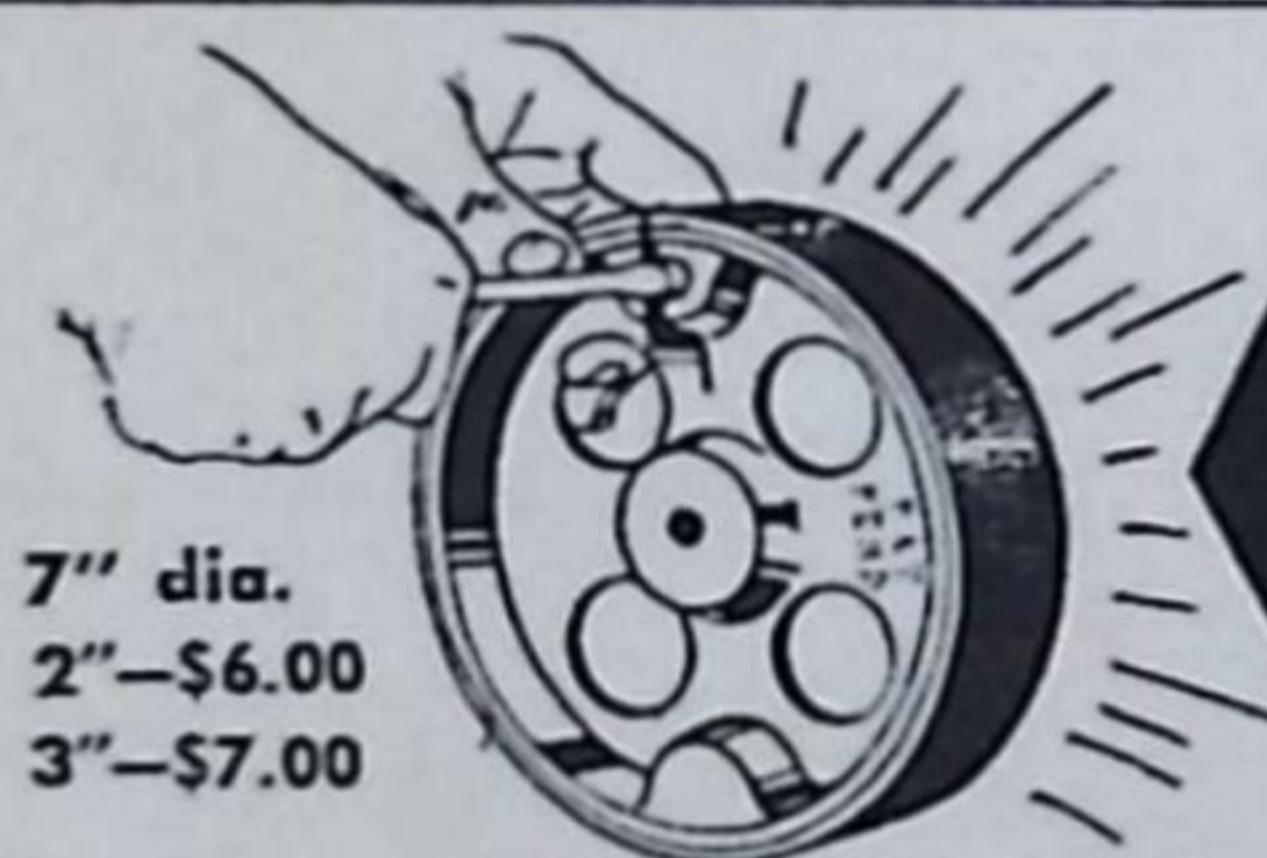
Box 629, Lemmon, South Dakota

THE TWO GREEKS

A Gem of a Tale

Here is a fable that the editor dreamed up on a rainy afternoon for our readers to have some fun with on some other rainy afternoon. It isn't easy to solve but the gem names are very apparent when you know them. Originally published in *Desert Magazine* in May 1946 it gave many experts a tussle. See what you can do with it before you look at the answer on Page 299. The names of fourteen gem materials are hidden in the fable.

OVAR AND PETOS, ANCIENT GREEK ARCHITECTS, WERE OFTEN AT ODDS OVER STRUCTURAL DETAILS. ON A DONKEY TRIP TO PALOMAR OVAR IS CITED AS HAVING SAID THAT A MANSARD ROOF NEEDED A KEYSSTONE. "BUT," SAID PETOS, "KEYSTONES ARE FOR ARCHES ONLY. AN OVERLAP IS SUFFICIENT FOR STRENGTH IN A ROOF. HOWEVER, I AM BERATING YOU IN VAIN FOR YOU CAME OF A POOR MASTER AND THE FAULT IS NOT YOURS ENTIRELY." "NOW THEN," SAID OVAR, "IT IS NOT PROPER I DO THINK FOR YOU TO BERATE MY MASTER WHOM YOU KNEW NOT. RUB YOUR EYES OF THEIR OWN MOTES BEFORE YOU PICK ONE OUT OF MINE." AS THEY CAME TO THE CITY PETOS WAS JETTISONED FROM HIS MOUNT AS THEY PASSED THROUGH A GATE TOO NARROW FOR BOTH. HE KNOCKED OVER A FRUIT VENDOR'S STALL AT THE CITY WALL AND AS HE REACHED FORTH TO GRASP IN ELEGANT GESTURES A PEAR, LEST HIS DONKEY TRAMPLE IT, OVAR DERIDED HIM BY SAYING, "HA, ME! THY STOMACH IS THY MASTER STILL, I SEE!!"



7" dia.
2"- \$6.00
3"- \$7.00

"BEST THERE IS!"

DRUM SANDER and POLISHER. Patented locking method cinches abrasive cloth or polisher in a jiffy. Cast Aluminum. Cork cushion. Perfectly balanced. Works right into hose hard-to-finish corners. For arbor, drill press or lathe. 1/2", 5/8", or 3/4" arbor. Write for FREE catalog. LAPIDARY EQUIPMENT CO., INC., 1545 W. 49th Street, Seattle 7, Washington.

NOTE: These prices were given in error in THE LAPIDARY JOURNAL for August 1949 as \$5 and \$6 respectively. The above prices are correct and were correct at that time.

ROCK COLLECTORS ATTENTION!

Did you see my gold collection at the Sacramento Show? Yes, it was wonderful wasn't it? And some day, I'm going to have the gold cup I won there, engraved! When you come thru the desert this winter, I'll show you the rocks, (but not the fish) I've collected this summer!

THE
ROCKOLOGIST
(*Chuckawalla Slim*)
Box 181, Cathedral City, Calif.
Highway 111

ROCK CRYSTAL STARS

Carnelian Stars
UNDRILLED FACET CUT 5-POINT
STARS APPROX. ONE-HALF INCH SIZES
Price \$1.00 Each Postpaid
Tax Extra
"STONES TO YOU"
B. M. BREHM
990 DANA N.E. WARREN, OHIO

BRAND NEW



MINERALIGHT

Model SL Ultra-Violet Lamps

- Vivid fluorescence • Much lower prices
- Weight 16 ounces • Streamlined •
- Short Wave • Long Wave • 110-Volt Battery.

After two years of research, the finest Mineralights ever produced are now here — at unbelievably low prices.

Model SL 2537—Short Wave—\$39.50

Model SL 3660—Long Wave—\$29.50

Modernized, light weight, low-priced field accessories. Write for catalog SL7.

See your Mineralight Dealer

ULTRA-VIOLET PRODUCTS, INC.

South Pasadena, Calif.
Some Dealerships still available

California Gem Trails

A NEW BOOK for the gem hunter, gem cutter, mineral collector and those who love to visit the wide open spaces. By Darold J. Henry of Brea, California, well known author, gem hunter, and educator. Not a compilation of the other man's work. The author has been there, and writes in a readable style from first hand experiences, most of them recent.

16 accurate and reliable maps by the author. Photos and valuable text. Little known localities are described by one who is perhaps as familiar with these gem producing regions as anyone. Book is 68 pages, bound in heavy flexible cover for field use. Not just a "bird's eye" view but an on the ground description.

PRICE ONLY \$1.50 POSTPAID

plus 3% Sales Tax in California

ASK FOR OUR FREE BOOK LIST

LAPIDARY JOURNAL

Box 1228

Hollywood 28, Calif.

NEW BOOK FLUORESCENT-GEMS AND MINERALS

A COMPLETELY NEW WORK
JUST RECENTLY PUBLISHED

FLUORESCENT GEMS—all known varieties are listed and described in detail, along with their localities.

FLUORESCENT MINERALS—many are described which have not been mentioned previously in the literature. Luminescent properties are given in detail, along with locality for each mineral. Written by Jack DeMent . . specialist in this field since 1937.

COMPLETE DATA—is included. Descriptions of various types of ultra-violet light units, filters, technic, localities, and all other pertinent data, is brought under a single volume. Written in a non-technical style, intended for the collector, gem cutter, student, and all who are interested in the fluorescence of gems and minerals.

The Only Work of Its Kind
Price \$1.50 postpaid
Plus 3% Sales Tax in California

LAPIDARY JOURNAL

Box 1228

Hollywood 28, Calif.

COLORFUL AGATES AND WOODS

Arizona - Utah - New Mexico Black wood - colored wood - picture wood.

Utah pigeon blood agate Golden Moss and Red Moss

Banded agate in many colors

Jet black agate

Gem grade dinosaur bone

Best gem grade chrysocolla and solid malachite

Ricolite from New Mexico—

Fine material for book ends and carving

Make your next rock hunting trip in our yard. Tons of material to select from as low as 25c a pound.

NO MAIL ORDERS PLEASE
UNTIL NOVEMBER

GEORGE C. CURTIS

"The Agate Man"

645 First Street

HERMOSA BEACH.

CALIFORNIA

THE GEM OF THE HOUR TITANIA (RUTILE)

The Only Gem, When Properly Cut and
Polished, that Is

More Brilliant than the Diamond

A Dazzling Spectacle Which In One Stone
REFLECTS 24 DIFFERENT COLORS

Beautiful Brilliant Cut

Top Quality

Regular \$7.00 per Carat

Blue \$8.00 per Carat

Amber \$8.00 per Carat

1 Carat and up

SEND REMITTANCE TO

Regent Lapidary Co.

511 East 12th St.

New York 9, N.Y.

◆ The Story of Jade

A BOOK REVIEW

While Laufer's JADE will always be the authority on the subject there is too much of history, philosophy and religion with regard to jade and too little of the lapidary and art angle to satisfy the average gem cutter seeking information on jade itself. This fault has been overcome in the new STORY OF JADE by Whitlock-Ehrmann and in this highly readable book there is much lapidary information.

In 10 chapters and 179 plates (6 in color) the full story of jade as a gem is told and what the Chinese lapidiaries intended their work to convey. The book is of great value to jade collectors particularly for it tells the meaning of each character. One appreciates his jade figures far more if he knows the symbolism of the carving on his cherished possessions.

The authors make it clear that the actual year in which a jade figurine was carved is not as important as the lapidary angle itself; the amount and significance of the carving. The older a piece of jade is supposed to be the less certain it is that the material really is jade. For after all almost no one in China before the Christian era knew the difference between serpentine, nephrite or jadeite. Many "priceless" jade pieces exhibited today are not jade at all, some of them even being steatite etc. The authors make this clear and they also clear up a lot of other misconceptions about jade.

Anyone who loves jade should own this large book of 222 pages. Any one who loves gems should own this book. And then—any one who just loves books should own THE STORY OF JADE. Published by Sheridan House, New York, the work sells for \$12.50 (See the Lapidary Journal ad and offer on Page 254.)

CHRISTMAS SPECIALS

Montana Agate Rock	1 Lb.	.50 to \$3.00
Blue Bed Nodules (Priddy Ranch)	1 Lb.	.50
Polka Dot Agate Rock (Priddy Ranch)	1 Lb.	.75
Nodules from Plume Bed (Priddy Ranch) (Plume not guaranteed)	6 Lbs.	\$5.00
Gold Sheen Obsidian	1 Lb.	.75
Silver Sheen Obsidian	1 Lb.	.75
Rhodonite (Oregon)	1 Lb. \$1.00 — 6 Lbs.	\$5.00

FREE—The first 25 orders for rock from this ad amounting to five dollars (\$5.00) or over will receive a Bitner Gem Template.

ALL PRICES F.O.B. Portland, Oregon.

• • •

SLABBING on our new 24 inch Nelson Oscillating Saw 6c square inch.
Nelson Precision Lapidary Equipment. — Deep cut prices effective September 1st.
Complete line of Lapidary Supplies — Mail Orders promptly filled.
We can size your rings. Prices on request.

* * *

We now have a lapidary shop in downtown Portland at 233 S. W. Alder St. We will continue to have our home shop which will be open at all times. Will also continue to fill all mail orders at our home shop.

We are receiving new cutting materials; also new lapidary equipment is being manufactured. For this reason we are making up a new mailing list. If you wish your name on this list, or would like to have our catalog on rough cutting materials, slabs, lapidary equipment and supplies, send us your name on a postal.

AMES AGATE SHOP

(Clarence A. and Frances E. Ames)

Home Shop: 3638 S. E. Olsen (Ardenwald Dist.) Tabor 3093
Downtown Shop: 233 S. W. Alder St.

Portland, Oregon

FOR THE
JADE COLLECTOR

Yellow Burma Jade
Cabochons \$15.00 each



Red-to-Pink Burma Jade
Cabochons \$20.00 each



White Burma Jade
Cabochons ... \$5.00 each



ROBERT TESMER

4400 Pearl Rd. Cleveland 9, Ohio

J A D E

N E P H R I T E
From the Famous
M O N T E R E Y D E P O S I T
Selected
Rough — \$3.00 per lb.
Slices — \$1.00 per inch

S. N. P A R M E L E E
1850 BAY ROAD
EAST PALO ALTO, CALIF.

Visitors Welcome

JUST ARRIVED

Fire opals at 50c - 75c - \$1 and \$2 each (rough). Blood stone (slabs only) 50c to 75c per sq. in. Tiger-Eye - Red, Blue, Brown, Blue-green, Golden - (slabs only) 50c and 75c sq. in. Diamond cut Zircons - White or Blue \$2.50 each and up. Belgian Malachite on the way. Slabs will be 50c to 75c per sq. in.

Stop in Medford and see our display or write us for further information

**SOUTHERN OREGON
MINERAL EXCHANGE**

Santo's Agate Shop
411 East Main St. Medford, Oregon

Variscite—slices only 50c sq. in.
Wyoming Moss Agate—\$1.00 per lb.
Indian Blanket Jasper (new!) \$1.00 lb.

WOOD—

Red, green, black, picture—\$1.00 lb.
Dinosaur Bone (Carnelian)—\$1.00 lb.
Oregon Zeolites, Natrolite, Gmelinite,
Analcite, Stilbite, Chabazite, Calcite —
50c to \$50.00 each according to size
and quality of specimens.

E. H. and NELLIE COMBS

Box 609 Corvallis, Ore.

**SUBSCRIBE TO
THE JOURNAL NOW**

\$2.00 a year
LAPIDARY JOURNAL
Box 1228 Hollywood 28, Calif.

Don't Forget

Gem Button Sets for
your Xmas gift list
Buy sterling silver button backs
See the middle spread of
GORDON'S

**Minerals — Gem Materials
Books — Lapidary Supplies**

Open all day Saturday
Other days by appointment
MISSION MINERAL MART
818 Ft. Stockton Dr. San Diego 3, Calif.

WANT TO TRADE?

I have LOTS of good extras
OPALS — COPPER — FLUORESCENTS
JASPER — AMETHYST XLS, ETC.
Stop in—bring your extras
W. N. WHITTEMORE
209 E. Islay Santa Barbara, Calif.

Will buy, sell or trade

FACETED GEMS
Have many rare, as well as regular items.
I am looking for others. Write me about
your wants.

E. E. JOACHIM
1710 Inverness Ave., N.E. Atlanta 6, Ga.

◆ *Unique Rogue River Field Trip*

By D. F. DeVOE
Gold Beach, Oregon

On Sunday, May 15, 1949, the Curry County Mineralogical Society (Oregon) made their second annual Rogue River field trip. This trip is the highlight and climax of the society's winter activities. It is eagerly looked forward to by all the members. The Sunday closest to May 15th is picked for several reasons. Usually the weather is fairly well settled by that time, the river is high enough to afford easier navigation, and the summer moss has not yet had a chance to cover the gravel along the water edge.

The morning of our trip was warm and clear and the members were all on hand well before the time set to leave at 8:30 A. M. By the time everybody was loaded in the boat with their cameras, rock sacks, lunches and coats the departure time had come. Tommy Fry, our pilot, had the motor warmed up. The mooring lines were cast off and the trip began.

The first landmark was Elephant Rock, a mile and a half upriver from the boat landing. It is a famous salmon fishing spot. Then in quick succession came John's Hole, Clay Bank (the last portion of the river influenced by tides) and then the Ferry Hole. All of these places were heavily infested with salmon fishing boats, as was all the river up to Agness.

Above the Ferry Hole is Canfield riffle. This is where the Rogue River canyon begins to close in. From there on the trip is not only beautiful but thrilling. All along the river are gravel bars, some of which are productive of gem materials and many are almost completely barren. About eight miles up the river we stopped near Lucky Lodge to pick up another member. We now had thirty-one people in the boat, including the pilot, which was the limit. If we had had even one more passenger we would have had to take two boats.

From here on the river gets narrower and faster and the pilot has to keep a practiced eye on the rocks which line the channel. Often he has to raise the propeller and rudder assembly to keep them from hitting on shallow places.

By 10:30 we reached Lobster Creek, which is the end of the dirt road that follows the North bank of the river to this point. From now on to Agness the country is only reached by boat or trail. Agness, thirty-five miles upriver from Gold Beach, was our first stop.

Shallow Riffle, just above Lobster creek, is another taste of really fast water but these boats are powerful and have no trouble. Here the canyon is very narrow and the river is confined to a small channel and is constantly fed by dozens of small streams which cascade over the cliffs and rocks into the Rogue. Occasionally we passed summer homes of wealthy people who can afford to have their building materials hauled up the river by boat at so much per pound. Also there are occasional ranches belonging to people of Indian descent, like Tommy our pilot. All are highly skilled boatmen; they have to be, using the river as a highway.

As we get inland and away from the cooler coastal area people shed their coats. Copper Canyon, which is named for its color and not its mineral content, is cool and quiet. The river is narrow here, but deep, and in flood times rises as much as sixty feet at this point. Above Copper Canyon are some really tough places to navigate. The river pours over and through tremendous boulders and the roar is frightening. Soon the gravel bar at Agness is reached and everyone piles out.

Agness consists merely of a hotel, store, post office and a few houses. As most of us have been here before we begin the main business of the day—rock collecting. A few are fortunate and immediately find worth-while pieces. This is the most productive bar of all for some unknown reason.

As it nears lunch time various groups are scattered around eating. Others are still collecting and comparing finds. On this gravel bar were found several varieties of fossil wood, agate (including green and red moss), red and yellow jasper, typical of the material found

BRAZILIAN AGATE

75c
per pound

Half or Whole Nodules
3 to 18 pounds each

SLABS AVAILABLE
From 3 to 18 dollars
per slab

Give Him a Present

Prices Include Delivery

Correspondence Invited

NORTHWEST GEM IMPORTERS

J. F. BERRY

4528 Sunnyside Ave.
Seattle 3, Washington

JADE SPECIAL

.45c Square Inch

Performs 50c each or 5 for \$2.00 of any of the following
Jade, Petrified Wood, Lapis, Malachite, Labradorite, Peristerite, Tigereye, Moonstone, Agate, Chrysocolla, Jasper etc.
Chinese cut Jade crosses & hearts \$10 ea.
Chinese cut Jadeite crosses & hearts \$15 ea.
Beautiful drop ear rings. 4 jade stones mounted to match above items \$18.00 pair
Same in Jadeite — \$25.00 pair

All listed items subject to excise tax
Send For Price List

CHARLES WEIDINGER

625 W. 54th Pl.

Chicago 9, Ill.

TEXAS THUNDER EGGS

From the only known thunder egg beds in Texas. Production is low and supply is limited. Specimens at \$1.50 per pound. Slabs at 25c per square inch.

Full Line of Lapidary
Supplies and Equipment

Large Stock of the Best
Texas Agate

ODOM'S

Star Route A, Box 32 C

Austin, Texas

THE BREHM SAW

Has revolutionized the sawing of stones, glass, ceramics and other non-metallics. Write for particulars.

GREATEST SAW VALUE EVER!
"STONES TO YOU"

B. M. BREHM

990 DANA N.E.

WARREN, OHIO

ROCK-A-TEER

Lapidary Equipment

A NEW LINE. Speed CONTROLLED 8" lapping and polishing machine at ONLY \$37.50, SEMI-AUTOMATIC faceting attachment at \$14.95; unique transfer 'V' block; BRASS dops; Hardness testing WHEEL at ONLY \$3.50; ADJUSTABLE V pulley and many more items for the rockhound and cutter at a PRICE HE CAN AFFORD TO PAY. Write for illustrated literature—IT'S FREE!

Dealers and distributors wire or write for attractive discounts.

ROCK-A-TEER ENTERPRISES

4705 Edison Road West, South Bend 19, Ind.

LIGHT AUSTRALIAN OPALS, ROUGH

Blue green } Quality A \$12.00 per oz.
and red } " B 6.00 " "
" " " "

Milky with } " A 18.00 " "
fire } " B 6.00 " "
" " C 3.00 " "

Higher } \$24.00 per oz. up to
Qualities } \$150.00 per oz.

Post free, all parcels insured. Send check
or money order. Minimum order \$3.00.

SPECIMENS — FINISHED OPAL GEMS
SEND FOR FREE CATALOG

OPAL SPECIMENS, INC.

22 West West 48th Street New York 19, N.Y.

DEAL DIRECT

WITH THE IMPORTER!

Choice mineral and gem specimens
Cutting materials of all types

SOLD EXCLUSIVELY BY MAIL ORDER.

Letters answered promptly. Orders shipped
same day received.

You will like our "Memo Selection" plan.
See before you buy. Lowest prices.

Send Postal for new FREE list

PLUMMER'S

2177F Bacon Street San Diego 7, Calif.

What to look for in the desert

12 gem specimens
in a pocket packet for \$1.25

See the middle spread of

GORDON'S

later down the river, but in greater quantity.

After considerable trouble the group finally embarked again. The next stop was across the river, at the point where the Illinois River joins the Rogue. The gravels of the Illinois proved to be mostly shale, with here and there a bit of quartz for variety, but absolutely barren of gem materials. This proved true with all the Rogue tributary streams that we examined. The gravel bars on the south bank of the Rogue were very poor collecting areas. The ones on the north side were far better. Tommy next dropped us off on a bar well below Agness and we met the boat again at the foot of the bar about a mile below. Thus we continued at most of the accessible gravel bars, working our way down river.

The collecting continued good until we reached the bar below Wake-Up-Reilly Creek where collecting was poor. However the author found the prize specimen of the day (a fine piece of moss agate in various colors) on this bar. By now the hour was getting late, the collectors were getting tired, and there was a lot of river to cover before reaching home again. With the swift current of the river to help we navigated the remaining 15 miles in about 45 minutes.

The Society is already planning on making this field trip next year and it will probably take at least two boats. There are many better places to collect gem materials than on the gravels of the Rogue but enough was found to make the trip worth while. It is a rare field trip indeed that affords the scenic beauty and excitement of this one. The cost is \$3.00 per person, which is modest enough, and there will be room for a few guests on the next trip, possibly 20 or 30. Anyone interested in making the trip next year should contact the secretary of the Curry County Mineralogical Society, Gold Beach, Oregon, or the author. It is well to keep in mind, however, that the trip may be postponed for days if it rains.

ANSWERS to "Take Your Pick" on Page 241

1. b; 2. a; 3. b; 4. a; 5. b; 6. c;
7. a; 8. a; 9. b; 10. a; 11. c; 12. b;
13. b; 14. a; 15. b; 16. a; 17. a; 18. b;
19. c; 20. b.

GOLD BEACH

Was named after the large quantity of gold that was mined here on the beaches years ago. The gold is about gone, but attractive gemstones are still here, and we have them for sale at 25c a pound. Our gem quality grossularite garnet is gone but we will sell you specimen quality at 25c a pound also. 8 pound minimum, please include postage on rough material. We are now able to offer the finest Iris agate cabochons from \$2.50 to \$5.00 each. We guarantee the finest iris and the most flawless workmanship.

Gold Beach Mineral Shop
GOLD BEACH OREGON
D. F. DeVoe, Proprietor

AUSTRALIAN OPALS

(Direct from Australia)



CUTTING OPAL

Assorted Parcels of Green, Blue, Blue-Green, Red-Green and Red Fire
From \$2, \$3, \$5, \$10 per ounce
and upwards — Minimum trial lot \$15
Postage paid to your address

BOULDER OPAL SPECIMENS

From 1", 2", 3" to 6" in size
Green, Blue, Fire Colors in Brown Rock
Trial Parcel (20 to 50 Specimens) \$15
(Not recommended for cutting)

BLACK OPAL-FACED

(Partly polished)
All Colors, from \$1 to \$10 per
carat weight, and upwards

Also Zircons, Garnets, Topaz, etc.

Please remit by International P.O.
Money Order

Orders promptly executed
Satisfaction assured

Write for our Free List No. 460

ADDRESS—

N. L. SEWARD

"Highlands", 2 Studley Ave. Kew.
VICTORIA, AUSTRALIA

OPAL DOUBLETS

\$5.00 to \$50.00

Australian Opal doublets with all the beauty of Black Opal. We will select a stone to meet your price.

GEM OPAL CABS

\$4.90 to \$50.00

Beautiful cabochons of the finest gem Opal with color and fire that rivals a rainbow. Cabs can be cut to fit your mounting.

STARS

\$15.60

Stars in synthetic corundum. A man-made star that compares with nature's best. Priced at less than \$1.00 per carat. Available in Ruby, Blue Sapphire and Pink Sapphire.

OPAL ROUGH MATERIAL

\$5.00 to \$100.00 per ounce

Australian fire cutting Opal available in grades from the inexpensive to the finest gem quality. Can be purchased in ounce parcels or by the piece.

All Sales Subject to Your Approval

Prices Include Federal Tax

Stars, Opal Cabs and Doublets available in quantity to dealers and manufacturers.

ACE LAPIDARY CO.

P.O. BOX 67

JAMAICA, N.Y.

CUTTING MATERIALS

Special For October & November

IT'S HOBBY TIME AGAIN

Carnelian (Brazil)

Carnelian (Montana)

Blue Agate (Brazil Treated)

Star Quartz (Brazil)

Tiger Eye (South Africa)

12 x 16 m.m. blanks—

40c each; 6 for \$2.00

ALSO

Star Sapphire (Burma) \$3.00 per gram

Star Quartz (Brazil) \$2.00 per pound

Montana Moss Agate \$1.00 per pound

Mexican Fire and Honey Opals—25c each

Phantom Quartz Crystals—50c each

Large Oval Cabochons of Rutilated Quartz—

\$3.25 each

Round or Square cut Tourmaline—\$5.00 each
1 1/4 carats average weight

Round or Square cut Aquamarines—\$5.00 ea.
1 1/4 carats average weight

Cut Turquoise Cabochons—5 for \$1.00

Please include postage when ordering

GEM SPECIALTIES

110 N. IVY, MONROVIA, CALIF.

Synthetic Boules (Swiss)

Single boules—7c per carat
5c per carat in 3 boule lots of 500
carats or more.

Alexandrites

(Synthetic) for mounting

All sizes and cuts \$1.00 per carat

plus tax

Exceptionally fine color

Beautiful Amethyst

ready for mounting

All sizes and cuts—\$1.00 to \$2.00 per
carat—plus tax

Light to deep purple. State preference
when ordering.

Light Beryl

Honey color—genuine

75c & \$1.00 per carat

Opals

Ready to mount. Best collection in the
West.

\$3.00 to \$6.00 per carat plus tax.

From 1 to 50 carats each.

HY HAYDIS

2720 Derby St. Berkeley 5, Calif.

RING

MOUNTINGS

MEN'S Sterling.....\$8.65 per dz. & up

LADIES' Sterling.....\$5.65 per dz. & up

LADIES' 10K Gold.....\$3.00 & \$4.00 each

FINDINGS

NECK CHAINS—SS....\$3.50 dz., GF \$4.50 dz.

CLEVICES—SS or GF Pendant size....\$1.25 dz.

GF Ear Ring size.....\$1.20 dz.

TIE CHAINS, (12x16 m.m. Stone)....\$6.00 dz.

BEZEL—Sterling, \$2 per oz., GF, \$2.90 oz.

10K Gold, \$1.35 Dwt.

Many other items in stock. Ask for price
list #2 for complete information.

— Agate Jewelry Wholesale —

Ask for Price List #1

O. R. JUNKINS & SON

Box 1295

Newport, Oregon

Gems From The Mail Bag

We of the Sacramento Mineral Soc. were very happy about your remarks on the Convention. Thank you for the nice write-up. Genevieve Colony, Sec'y, Sacramento Mineral Society (Calif.) (See Mrs. Colony's interesting article on Page 240. The cover of this issue portrays her work. Ed.)

* * * * *

Thanks very much for the splendid announcement in the last issue of the *Lapidary Journal*. Announcements like that will do our Society no harm. John M. Heffelfinger, Sec'y, Cleveland Lapidary Soc.

* * * * *

(Editor's note: These are two rare comments for which we are grateful. They are rare because societies almost never recognize by gesture or word that they are grateful in any degree for any of the publicity they ask for and usually get. We consider all society news the least important matter in the *Journal* but we lean over backwards so far in trying to make them happy that we are now suffering from a cracked skull.)

* * * * *

We get very marvelous results from our advertising and you can be assured of our continued patronage. The Gold Issue was superb! Whether you are a gem cutter, jewelry maker or a person who knows nothing about these—that issue can be read with interest by *everyone*. That's what makes it possible for you to really keep up the interest of everyone. The Geminlap Mart, Milwaukee.

* * * * *

Please renew my subscription to your most informative magazine. Of all the publications on this subject yours has most successfully served its purpose. L. Gerald Lamb, Boise, Idaho.

* * * * *

Your golden issue was the finest in journalistic art. More power to you. J. D. Churchill, Dallas, Texas. (The next was good too—it had Mr. Churchill's famous agate on the cover. Ed.)

Thank You Everyone

Thank you sincerely for stopping at my place recently. It made me very happy to meet so many nice people. I have a BIG PILE OF NIPOMO AGATES for you to play with. It includes marcasite in agate, color, pattern, the best sagenite material in America. I have slabs too. Stop by and say hello as you travel Highway 101.

MRS. F. E. KLOFFENSTEIN

382 Park Avenue

Pismo Beach, Calif.

I know very little about rocks but I get more information in regard to lapidary work from your magazine than anything else I can find. E. B. Sebourn, Cambria, Calif.

* * * * *

I find the *Journal* invaluable in my hobby of gem collecting and cabochon making. Everything considered the *Journal* is tops. Have had fine service from the advertisers. Lt. Geo. W. Owens, Langley Base, Va.

* * * * *

I hate to see a renewal blank Fall from your printed page, But what in the world, for two small bucks, Gives more in this day and age?

Dr. A. T. Green, Fillmore, Calif.

* * * * *

Congratulations on your printing the article "Who Said It's Junk?" I have long felt the same way about the subject of home made equipment. All the equipment now being offered had a humble period of experimentation in someone's home or back yard shop. I am aware that the lapidary arts owe the manufacturers a great deal. Your printing of this article is another example of your open mindedness and shows a great deal of fairness on your part. James F. Taylor, Ventura, Calif.

* * * * *

Oh my gosh—I've been so busy in my business I have neglected some of the *more important* things. Don't you ever let me miss a copy of the *Journal* even if I have to miss a meal or two. You are doing a fine job. E. W. Handy, Tomball, Texas.

* * * * *

Robert Tesmer put a whole history book into twenty-four lines and it was so appropriate for the California Gold Centennial Edition. Rudolph Fahl, Colorado Springs, Colo.

* * * * *

I want to congratulate you on the high quality *Journal* you are publishing. It is always a great treat to receive each issue. Peter Scherrer, Cincinnati.

Lapidary School

Learn gem cutting
Approved under G.I. Bill
Non-veteran students accepted

Cutting of Gem Stones
Emerald - Ruby - Sapphire
and all types of genuine material
Inquire for prices

STEWART LAPIDARY
INSTITUTE

565 Main Ave.

Passaic, N. J.

Unusual Spheres for the Collector

RUTILATED QUARTZ
BERYL
CITRINE
TOURMALINE
ROSE QUARTZ
TOPAZ
SMOKY QUARTZ

*Descriptions and Prices
Sent on Request*

Headquarters for Brazilian rough materials. Inquiries invited.

EDWARD R. SWOBODA

448 S. Hill St., Rm. 909
Los Angeles 13, California

PENDANT MOUNTINGS

Modern and Antique Styles. 18 New styles and sizes in silver. 20 in triple 24 K gold plate.

These Mountings were designed for the present day needs. Complete with chains, sterling and G. F.

Ring Mountings

Many styles and sizes in sterling and sterling gold trimmed. Ladies' and men's. Standard weights, and heavy cast finished.

Brooch, bracelet, earring, and tie chain mounts in several styles and sizes.

Sold in any quantity, one or a dozen.

Approval selections of mountings sent on receipt of 3 references. Price list and description of Mountings sent on request.

JAMES J. KEHOE
BIG FORK MONTANA

I T ' S F R E E

Camping - Trailer parking space - Maps of agate locations. Headquarter in El Paso in my big yard with a view and have a good time. Sabe, señor?

If you **MUST** spend money, pick from our huge stock piles of agate at 25c per pound.

We continue our offers in the August issue. For \$10.00 a ten pound super selection of gem rainbow, plume, fortification, carnelian, moss, jasper and mahogany opal.

LAPIDARY SUPPLIES, Highland Park lapidary equipment, RX Lapidary Machines, Gem Maker units and Felker Di-Met saws.

**EL PASO
ROCK & LAPIDARY SUPPLY
DAVE & LUCILLE HARRIS
2401 Pittsburg St., El Paso, Texas
Phone 5-8721**

RADIATION DETECTOR *DESIGNED ESPECIALLY FOR PROSPECTORS*



Engineered By
Pioneer Manufacturers of
Radiation Instruments

- LIGHT
- SENSITIVE
- PORTABLE
- RELIABLE

Write for Full Details on Model F-4

TECHNICAL ASSOCIATES
3730 San Fernando Rd. • Glendale 4, Cal.

◆ *Beginners Page*

"How far that little candle throws its beam; like a good deed in a naughty world" wrote Shakespeare. This thought came to us recently when we culled a sentence from "The Working Of Semi-Precious Stones" by J. H. Howard. This was the forerunner of his present best selling HANDBOOK FOR THE AMATEUR LAPIDARY (which every beginner should own before he even owns a rock). Mr. Howard's little book was written in 1931 and it started the intensive experimenting that has grown into America's third largest creative hobby — gem cutting.

Mr. Howard said "this whole subject of facet cutting is merely an idea to be played with and is not a work that can be successfully done by an amateur." Indeed!! How far that little candle threw its beam is indicated in the fact that, 18 years later, many professional lapidaries in America concede that the best facet cutting being done today is being done by amateurs.

It is being done by amateurs because they take the *time* to do it perfectly; because they usually work with better equipment and they have the courage and interest to experiment with new techniques. Most of the growth in facet cutting has been in the last three years. Five years ago one could go to any gem show and count the faceted stones on his ten fingers. Today the faceted items and cabochons in shows are almost equal.

This whole thing came about through available knowledge, gained in groups like the Faceteers of the Los Angeles Lapidary Society. Constant experimentation resulted in many notes and through an exchange of ideas in correspondence a good library now exists among faceters on every cut that was known back in 1931 and scores of variations developed since.

Build your own equipment

See details of kits in the middle spread of

GORDON'S

The beginner today does not hesitate at all to try faceting *first*. Many beginners turn out creditable faceted gems immediately. It *can* be done. But faceting is not cabochon cutting. If you are going to facet you really must read and follow directions. You need books; not profound books on crystallography and geometry. You may become the best faceter in your community and never understand what is meant by the critical angle. If you do understand geometric principles, elementary physics, crystallography and gemology you will be successful faster perhaps but you can learn to facet and never know that amethyst is purple quartz.

If you are going to facet we offer several suggestions:

Begin with quartz. Begin with a fairly large stone. Buy the book "The Book Of Gem Cuts" from us at \$2.50 or from your favorite dealer. Buy a piece of *colored* quartz. It costs little more than clear quartz and it certainly gives one more satisfaction to display a gem as an amethyst (purple quartz) or a citrine (yellow quartz) than just to say to one's unimpressed friend "it's quartz." And a *big* stone (15 to 30 carats) certainly is more impressive and rewarding than some mite of an unimpressive one-or two-carat job.

If you think it's a good idea for kids to learn to swim with water wings then you should buy "The Book Of Gem Cuts." See a sample of it on Page 257 of this issue and you'll see what we mean. Don't let all those angles scare you. Faceting *looks* difficult. Don't misunderstand us — faceting is *not* simple. But any beginner can do it and time has proved that Mr. Howard was wrong when he said "it is not a work that can be successfully done by an amateur." And you can bet that no one is happier about it than J. Harry Howard.

MINERAL EXCHANGE BULLETIN

TRADE specimens with collectors throughout the U.S. September issue lists over 50 minerals—Revised each issue. \$1.00 per year; sample copy 25c. List three minerals you have to trade when subscribing.

1552 Steiner St. San Francisco 15, Calif.

New Book

EARLY CALIFORNIA GOLD RUSH DAYS

Authentic stories and experiences of a 49'er as told by his daughter,

Annie Keeler Williams

See an abstract of this interesting book in the June, 1949 issue of this magazine.

Price — \$1.50

★ ★ ★

NEW EQUIPMENT

HIGHLAND PARK

COMBINATION UNIT — Model E-3

Cabochon machine, consisting of 8" saw with stone guide and lucite shield. Arbor with hooded grinding wheels and splash pan. End of the arbor covered for sanding and polishing buffs. Includes 8" diamond blade, 2 - 8x1" grinding wheels, 1 - 8" leather buff and 1 - 8" snap rim sanding disc. Mounted on metal base 13" x 24".

Complete (less motor) — \$89.50

S-T Gem & Mineral Shop

6924 Foothill Blvd.
Jean and Bill Kuhn

Tujunga, Calif.
FLorida 3-1717

MY DUPLICATES FOR SALE

I have many duplicates from my many years of collecting and some one else should have them.

I have fluorescents of New Jersey calcites and willemite; Texas calcites and aragonites; Colorado Desert Calcites—two varieties of which are rare and unusual. One is calcite and hydrozincite and the other is banded calcite and fluorite.

My prices depend on the quantity desired, the quality and the scarcity of the specimens. Name your wish and I will name the price.

I also have black palm and petrified wood in slabs.

Eden Valley wood polished or unpolished at \$1.00 up per section.

Correspondence with serious and discriminating collectors invited.

ELDON SOPER

433 S. Central Ave.
Glendale 4, Calif.

IDAHO Gem Materials

Do you want the best? Do you want variety? Do you want plenty of time to do a swell job?

We suggest you get your approval of gem slabs now to select choice material for your Christmas Gifts. Then you will have plenty of time to plan — and to reorder if you wish additional fine material.

Send \$1.00 deposit for approval of Gem Slabs. Idaho white plume agate, colored plume, moss, "queen-stone", Oregon jaspers, woods, "morrisonite", Brazilian agate, Montana agate, Iris agate, India bloodstone, and many others sent if requested.

★

STEWART'S GEM SHOP

2620 IDAHO ST. BOISE, IDAHO

DEMING AGATE SHOP

1 1/2 miles east of Deming, N.M.
on Highways 70 and 80

ROCK HUNTING DAYS ARE HERE AGAIN

We have 12 claims where you can dig 25c a pound for all you take after you dig it.

Bulk material at our shop for those who don't have time, clothes, tools or gumption to dig.

Wholesale and retail
Rough or slabbed material

Highly colored slabs, Black and red,
Fortification agate, etc.
20c per square inch postpaid.

Stop in and see what we have
if you come this way.

His many friends around the nation will indeed be sorry to learn of the death on August 27th of Oscar H. Smith of Portland, Oregon. Mr. Smith was a charter member of the Oregon Agate and Mineral Society and their first meetings were held in his shop. He was identified with the gem and mineral business since 1916. His brother Archie, who operates shops at Portland and Depoe Bay, Oregon, will continue the business.

* * *

The *Journal* was in error in reporting in the last issue that the Tacoma Agate Shop of Tacoma, Wash. had been sold to L. A. Shaw. The names were wrong and it was the *Tacoma Lapidary Supply Co.* which was sold by Howard Bryant to Chester A. Barton.

* * *

The *Journal* is reliably informed that some material is being peddled about as apache tears that is just glass. It is so good that it fooled two of the best cutters in America and Canada who faceted large gems only to find, by gemological tests, that they had wasted their time on glass. If you intend cutting any Apache Tears it might be wise to take a specific gravity and refractive index reading first.

* * *

The next issue of the *Journal* will be a special birthstone number. This issue will really exhaust available knowledge on birthstones; their history, significance etc. We are indebted to Mr. S. N. Green of the *Gem Exchange* of Bayfield, Colo. for the idea and the material. Mr. Green has spent the better part of a whole year gathering the articles for us from prominent authorities all over the land. Advertisers should keep the matter in mind in writing their ads and tie their merchandise in with the theme of the issue wherever possible.

* * *

Hollywood Lapidary Society Show

The Hollywood Lapidary Society will hold its second annual gem show at Plummer Park, 7377 Santa Monica Blvd., Hollywood, Calif. on October 15th from 12 until 10 and on Sunday, October 16th from 9 until 6. The public is cordially invited to this fine *free* exhibition of the lapidary art.

GUIDE STONE GAUGES

In standard millimeter sizes

FOR FACETED STONES AND CABOCHONS

Standard Oval Guide	\$2.50
Standard Brooch and Ring Form Oval Guide	2.50
Standard Square Guide	3.00
Standard Cross and Heart Guide..	2.00
Standard Brilliant Guide for faceters	3.50

See them with the better dealers everywhere or write to

GEORGE T. DAVEY

9246 Tobias Avenue Van Nuys, California

NEW IMPORTS OF ROUGH MATERIALS

Amethyst and Citrine Topaz
Good grades ... 40c—60c per gram

Amethyst and Citrine Topaz
Medium grades .. 20c—35c per gram

Ceylon Moonstones
Medium grades .. 10c—20c per gram

All Brazilian minerals, including Aquamarines and Tourmalines imported by air freight on short notice to order, from our excellent sources.

Ask for Folder 300 for rough materials and price list for gems, stones, figures, carvings, crystal balls, etc.

Synthetic Rutile—
Finest grade 60c per carat rough

Cut stones—
Exquisite grade \$6.00 per carat and up

HERBERT SUSSBACH

(CO 7-8997)

15 Maiden Lane New York 7, N.Y.

75c a pound for PALE ROSE QUARTZ
for cabochon cutting.

Looks like moonstone when cut.
Emerald Micro-mounts \$1.00 per crystal

ROBERT F. BICKFORD

Norway

Maine

RARE SPECIMENS

and cutting materials from
BRAZIL—SOUTH AFRICA—AUSTRALIA

Visitors Welcome

KILIAN E. BENSUSAN

8615 Columbus Avenue
Sepulveda, California Phone EMpire 2-1942
(Los Angeles County)

GOLD JADE IVORY

Alaska Handcrafters

BOX 1891

FAIRBANKS

ALASKA

Answers to the fable appearing on Page 286.
In the order of their appearance in the fable
the 14 gem stones are: opal, variscite, sard,
Petoskey stones, lapis, amber, cameo, peridot,
ruby, jet, agate, spinel, pearl, amethyst.

Kraeuter 4 1/2" Jeweler's Pliers
Diagonal Cutting Pliers, \$2.50
End Cutting Pliers, \$3.00
Chain Nose Pliers, \$2.25
Flat Nose, \$2.25 Round Nose, \$2.25
Postage extra (about 5c)
Send postal for Free Price List

A. JOSEPH ALESSI
430 So. Highland Ave. Lombard, Ill.

MARIETT & COMPANY
DIRECT IMPORTERS AND BUYING AGENTS
FOREIGN MINERALS
Serving Dealers and Commercial Lapidaries
837 Traction Ave., Los Angeles 13, Calif.

HI STRANGER

When in Texas Visit the
WOODWARD RANCH

Slabs—Cutting Material or
HUNT YOUR OWN
17 Miles South of Alpine, Texas
Paved highway except for a mile

J. FRANK WOODWARD
Box 453 Alpine, Texas

SUBSCRIBE TO
THE JOURNAL NOW

\$2.00 a year

LAPIDARY JOURNAL

Box 1228 Hollywood 28, Calif.

C. FREDERICK

Loch

2 WEST 46TH STREET
NEW YORK 19, N. Y.

GENUINE CATSEYES (*Chrysoberyl*)

from inexpensive to finest
Complete your Collection

List upon Request

"THE LOCHS IN ROCKS"
SINCE 1620

Under New Management

• • •

Lapidary Supplies & Equipment
Good Brazilian Agate Slabs
Cabochon Material 20c Square Inch
Also Choice Slab Selection
15 Square Inches \$3.00 Postpaid

CHESTER A. BARTON

TACOMA LAPIDARY SUPPLY CO.
631 St. Helens Ave. Tacoma 2, Wash.

GLASSINE ENVELOPES

Small, semi-transparent, end opening
envelopes. Size approximately 2x3 1/2".
These are suitable for cabochons, small
slabs, jewelry findings, etc. Needed by
dealers for shipping small orders.

100 25c 1000 1.50
500 1.00 2000 Full Box.. 2.00
Postpaid

DR. RALPH E. MUELLER
3701 Valentine Road Kansas City 2 Mo.



That's Me on the Right

We have one automatic lapping machine at a bargain. Particulars on request.

Got some powerful good agate t'other day too; migh-TY colorful friends; bands and areas of combined colors in stuff—up to 30c square inch.

Ben tryin' fer 10 years to get some real chrysoprase and it's happened. It's from South America and it will cost you \$1.00 a square inch if you want it. Will supply preforms, cab blanks or slices. I'll take 40c an ounce for rough stuff.

We expect to have a whole mess of blank ring mountings in sterling and gold for your Christmas gift program; and at give-away prices too. If you ain't seen our African Malachite you jest ain't seen malachite. Only 50c a square inch too!

We got a right smart of blank scatter pins, cuff links, ear ring mountin's right this minit —35c to \$2.70. Whatta y'want?

We guarantee to make y'happy with every deal so don't go flyin' off the handel bars if y'ain't pleased ('taint happened yet!) but jest send 'er right back.

CHUCK JORDAN'S
(TOWN AND COUNTRY MARKET)
350 South Fairfax Avenue (Stall 811)
Los Angeles 36 YOrk 0923

BEFORE YOU BUY ANY LAPIDARY EQUIPMENT—Send for our **BIG, FREE CATALOG**

32 Pages packed full of helpful Lapidary Instructions...Should be in every rock nut's library. Plus complete information on the famous Hillquist line of Lapidary Equipment including Hillquist Compact Lap Unit, Hillquist 16" Rock Saw, Hillquist Trim Saw, Hillquist Auto Feed, Hillquist Gem Drill & Hole Saw, Hillquist Facetor, Hillquist Drum Sanders & Hillquist Diamond Saws

Send NOW to
Lapidary EQUIPMENT CO.
1545 W. 49 ST. • SEATTLE 7, WASH.

"NATION'S LARGEST MFGRS OF FINE LAPIDARY EQUIPMENT"

STAR GARNETS
Guaranteed to show a Star
\$1.25 to \$10.00 each including tax
See the middle spread of
GORDON'S

"Andy" Burgard Sweeps the Prizes

Mr. A. J. Burgard of Alpine, Texas attended the Rocky Mountain Federation of Mineral Societies' convention and show at Albuquerque, N.M., taking with him a display of his jewelry and agate. His Texas Bouquet agate (see article in the last issue of the *Journal*) took first and second places at the show and he took three other ribbons on entries. During the three-day showing Mr. Burgard was reportedly second high in sales.

* * *

New Lapidary Supply Store in Hollywood

Dan O'Brien of the O'Brien Lapidary Equipment Co. will be in his new building at 1116 North Wilcox Ave., Hollywood, Calif. by the time this issue reaches you. Lapidaries and silver craftsmen in the Hollywood area will be glad to know that they will have a complete supply store in their own neighborhood. Dan will handle a full line of lapidary equipment and all manner of gem cutting material for the faceter and the cabochon maker.

"Great oaks from little acorns grow." On Page 370 of the February, 1949 issue of the *Lapidary Journal* we published an anonymous article entitled "Faceting Equipment — Comparison and Critical Comment." Dan O'Brien, no lapidary himself, read the article and determined to create a new kind of faceting head. He did (see illustration in his ad on page 247 of this issue) and the device has created wide interest. He then had to build a factory for himself and in the meantime he has become a deep-dyed gem cutter and is going into the business right up to his ears. If out of state visitors visit him we hope they will come around and visit with us too as we're only a jack-rabbit's leap from Dan's fine new establishment.

Folks returning from the Northwest Federation Convention at Eugene, Ore., just as we were going to press report that it was one of the nicest conventions they ever attended with everything well managed in a clean and spacious meeting place and a crowded attendance of 3700 people.

Si Lubarsky of the Northern California Mineral Society is now proprietor of the Klamath Garage at Klamath, Calif., and reports that he will help organize a society there in the Fall.

Grieger's new catalog is a wow. See their ad on Page 245.

**THE EXPERTS SAY—
Buy HILLQUIST!
The best buy in lapidary equip.**

THE UNUSUAL IN:

Agates, etc. Custom Jewelry Work.

TREASURE TROVE

Crater Lake Hiway
22 miles from Medford

Shady Cove

Oregon

**CURVED AND TWISTED
SELENITE CRYSTALS**

Terlingua calcites and Cinnabar
Fine Agates and Woods.
Red Roses of Selenite

V. C. TANKERSLEY

Box 414, Miles, Texas
18 mi. east of San Angelo on U.S. Highway 67

AGATES

Custom cutting and mounting. Finished Gems.

Write for prices

NORTH WEST GEM SHOP

Box 305 Tacoma, Wash.

Cabochons

Expertly cut stones for jewelry makers or collectors
RING SIZE STONES \$0.75 each
BROOCH SIZE STONES \$1.00 each
LARGE BROOCH SIZE \$1.25 each

Approval lots sent to responsible persons

GRAHAME HORTON

Box 266 Depoe Bay, Ore.

ONLY \$1.00 POSTPAID

10 Square Inches

SAWED cabochon slabs of petrified woods,
fossil bone, scenic obsidian, jaspers, agates,
and other cutting material.

H. F. OHLSEN
618 West "M" St. Wilmington, Calif.

CABOCHON SLABS

Oregon, Idaho, Utah, 25 brooch size, all different,
superb, \$5.00—20 good ones \$2.00—or send \$5.00
deposit for wide selection on approval. Postpaid.
Satisfaction guaranteed.

THOMAS J. BONES
2713 Rossiter Lane, Vancouver, Washington

MAKE YOUR OWN SELECTION

Slices on approval
Agates from Montana, Nevada, Priddy
Ranch scenic, Horse Canyon, Palm, etc.

WOODS

When traveling 395 stop and see us

R. O. HOUGHTALING
2 Miles West on Line St. Rt. 1, Bishop, Calif.

**Desert Rose
Carnelian Agate**

Guaranteed to make fine gems,
no sawing necessary. 12 pcs. for
\$1.00 or 30, for \$2.00 *plus postage*.

Also Ruby jasper now sold in chunks at
\$1.00 per pound

FRED STEIN

Rt. 3, Box 240

Glendale, Ariz.

GEMS

Rare and Semiprecious

rough and cut

No matter what your requirements may be
your inquiries are invited.

We receive frequent shipments of gems from
Australia, Brazil, Burma, Ceylon, Columbia
S.A., India, Madagascar, and Siam.

**JOSEPH TYNSKI
IMPORTER**

P. O. Box 81 Station K
Brooklyn 19 New York

GEM MATERIAL

Rough and Sliced

Iris Slices

Montana Dendrite Blanks on approval.

Sliced Wyoming Jade — Green, Black,
Dark and Light Green Mottled.

Precision Cabochon Cutting
NELSON LAPIDARY EQUIPMENT

FULMER'S AGATE SHOP

C. H. Fulmer
5212 Rainier Ave. Seattle 8, Wash.

Jewelry Castings

Styles for Ladies or Gentlemen

These are good weight cast mountings;
well finished and polished; ready to set.
Also standard gold mountings for
faceted stones.

We will mount your new TITANIA or
other stones if you wish.

Write for Illustrations and Prices

HARRY D. OSTRANDER
2210A N. 42nd St. Seattle 3, Wash.

ROSE QUARTZ

Finest Quality Asteriated
Few Fractures \$2.50 per lb.

ALSO
Banded Agate
Dyeing Agate
Carnelian

Clear and Smoky Quartz Crystals
Citrine — Amethyst — Aventurine
Bloodstone

And many other cutting materials and beautiful
specimens from Brazil and India. Send for our
lists.

MURRAY AMERICAN CORPORATION
95 Summit Avenue Summit, New Jersey

ONYX BLANKS

not polished

Mail Orders Handled Promptly

BLACK 25c each or \$2.50 dozen.
GREEN } 35c each or \$3.80 dozen.
RED }

SPECIAL ORDER CUTTING AT
REASONABLE PRICES

JUCHEM BROTHERS

315 West 5th Street
Los Angeles 13 California

ALASKA GORGONE PRIMNOA

Intricate patterns in gold and black on
ivory-like background, yellow eyes flu-
orescing green. Takes fine polish, found
only under 2000 foot depth in the
ocean.

Liberal blanks \$1.00
Airmailed.

ALASKA
LAPIDARY SERVICE
BARANOF, ALASKA

Ask Gem Arts for

AMATEUR LAPIDARY SUPPLIES
MINERAL SPECIMENS
CUTTING MATERIAL
SILVER AND SILVER-WORKING TOOLS

TITANIA (Synthetic Rutile) 75c a carat in
boules or half-boules
\$1.10 a Carat in pieces.

Gem Arts
4286 Marlborough Avenue
San Diego 5 California

Hope Diamond Buyer Scorns Talk of Curse

Jules A. Kamsly, part-owner of the fab-
ulous Hope diamond, scorns all talk of
curses and jinxes, but he's shy of a cam-
era.

He turns down all offers to be photo-
graphed, saying that his picture has never
appeared in a newspaper. He explains it
this way:

"I am as vain as the next fellow—but
if I were killed in the next few weeks,
Lloyds of London would attribute my
death, at least indirectly, to publication
of my picture."

The British insurance firm is betting
\$1,000,000 that Kamsly will not be killed.
The diamond tycoon packs a load of
\$250,000 worth of diamonds when he
goes visiting.

Kamsly's firm managed to buy the
famed jewel collection of the late Evalyn
Walsh McLean, which contained the 100-
carat Star of the East, the 44½-carat
Hope diamond and assorted smaller
stones. His firm, which is headed by his
partner Harry Winston, was the only cor-
poration willing to buy the entire \$1,250,-
000 collection.

* * *

ANOTHER \$1,000 OFFERED FOR URANIUM DISCOVERY

An award of \$1,000 to go to the first
person who discovers a high grade ura-
nium deposit with their DG-2 Geiger
counter, has just been announced by the
Detectron Company. The deposit must
be good enough to receive the \$10,000
Government bonus to qualify for the
Detectron award. This makes a total of
\$11,000 which can now be claimed for
a high grade uranium deposit.

The DG-2 is a portable light weight
(5 lbs. 3 oz.) counter which uses in-
expensive batteries and a power supply
to achieve the 900 volt operating level.
Its 3-way signal system includes an in-
tensity meter, a neon count indicator
and a double head set. The instrument
has two sensitivity ranges and a beta
shield to screen out soft radiation when
necessary. Priced in the low cost field,
the DG-2 carries a one year guarantee.

Full information on the \$1,000 re-
ward and the Geiger counter can be
obtained by writing the Detectron Com-
pany, 5637 Cahuenga, North Hollywood,
California.

The GEMMOLOGIST

a monthly magazine for the collector and trader in Gemstones

It was the pioneer journal in its field; first published in 1932 and is still the best and most interesting. Its contributors comprise the world's authorities; much original and exclusive information is published. *The Gemmologist* has a wide circle of U.S. readers and will welcome more.

One Year \$2.50 twelve issues

GEORGE H. MARCHER

568 North Gower St.
Los Angeles 4, Calif.

Publishers, N. A. G. Press Ltd., Hammersmith, London, England

OR

LAPIDARY JOURNAL

P.O. Box 1228
Hollywood 28, Calif.

ACHAT

(The AGATE)

A German National Semi-Technical Magazine for Mineralogists, Geologists, Gemologists, and Jewelry Craftsmen.

Issued monthly on the first day of each month.

Send for a free sample copy.

Subscription: \$2.50 a year.

Subscribe through the *Lapidary Journal*
or write to

ACHAT - VERLAG

Schliessfach 1125, HAMBURG 1, Lohbrugge,
Germany

Mineral Notes and News

A monthly magazine about Minerals, Gems, the Lapidary Art and the activities of Mineral and Gem Societies everywhere. The official magazine of the CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES. Subscription price \$1.00 a year. Single copies 10c. Club rates to societies. Apply for advertising rates.

Paul VanderEike, Editor

Rt. 5, Box 177
Bakersfield, California

Handbook For the Amateur Lapidary

HOWARD . . . PRICE \$3.00

The most complete treatise ever written on the subject of the theory and practice of gem cutting. Step by step instructions—simple—clear—concise, easily understood by the beginner.

New techniques—new tools—new helps, helpful for every advanced student.

Large—225 pages. Well illustrated—62 drawings and photos. Excellent cloth binding. Good index. Logical arrangement.

ORDER TODAY FROM: Your Bookstore—your lapidary supply house—or the author and publisher

J. H. HOWARD

504 Crescent Ave. Greenville, S.C., U.S.A.

THE BMC ROCK CRUSHER

For removing surplus material from slabs. Remove more material in an hour than can be ground off in two!!

Save wear and tear on valuable wheels. Pays for itself in a short while.

Used by many outstanding lapidaries.

How can you afford to be without one?

Two sizes—7 1/8 and 8 1/2" at \$2.70 and \$3.00
Top grade Tigereye—\$2.25 a pound—35c a sq. in. Virginia Unakite and Pennsylvania Cuprite \$1.25 a pound—25c a sq. in.

MITCHELL'S

Apt. A 121
Hunting Terrace Alexandria, Va.

For Faceters

WAITE'S FACETING CHARTS

Indispensable to the serious faceter. Illustrates 64 shapes for facet cuts. Contained in 4 Blue Line prints suitable for framing. Or they may be cut to fit any loose-leaf reference system the lapidary may be maintaining. Each print approximately 17" x 22". See what you are doing! Eliminate guess-work! If the charts save you one error or one carat of good faceting material they have paid for themselves.

The set complete in a mailing tube (postpaid) only \$4.00

GRIFFIN GRANT WAITE
38 St. Germain Ave. Toronto 12, Canada

FACETERS ATTENTION

THE BOOK OF GEM CUTS

Just published

This book gives large, clear and easily understood cuts of 16 facet styles. It gives cutting angles for 64 index equipment and recommended polishing agents and laps for all common gem minerals. You can't afford to be without this book for it costs less than a gram of good material.

SAYE YOUR TIME — YOUR PATIENCE

YOUR MONEY

Send for this book at once

See sample article on Page 256 of this issue.

\$2.50 Postpaid

California purchasers add 3% sales Tax.

Published by

M. D. R. MANUFACTURING CO.
4853 W. Jefferson Blvd. Los Angeles 16, Calif.

♦ News of the Societies

Little news is available as we go to press due to vacationing societies and little summer activity except make-shift and fill-in programs that were hardly worth reporting. Society secretaries are reminded to send copies of their regular meeting notices to the *Journal*. No need to write a special article; we write our own from the information in the notices.

* * *



LOS ANGELES LAPIDARY SOC. heard Vincent Arciniega in a lecture on GEM STONES IN CALIFORNIA at its August meeting. The September meeting was given over to a discussion of its big show and picnic at the end of the month and a Gem Quiz conducted by the Editor.

* * *

SAN JOSE LAPIDARY SOC. heard Roy Neilson of the State Division of Mines at its September meeting. He presented a film entitled GHOST TOWN.

* * *

MINERAL & GEM SOC. OF CASTRO VALLEY (Hayward, Calif.) had a step by step demonstration of faceting at its July meeting. The William Pitts famed collection of colored slides of gem transparencies was shown by Buster Sledge, proprietor of the Sterling Shop, at the August meeting.

* * *

FEATHER RIVER MINERAL SOC. ((Oroville, Calif.) reports that a complete collection of every mineral only costs about \$7,000,000. Their President, "Red" Rankin, well known and well loved, seems to be making the grade after a severe heart attack in the Spring. See Adeline Rankin's short article on Page 241 of this issue.

* * *

CLEVELAND LAPIDARY SOC. heard Robert Tesmer give a talk on JADE at the July meeting. Mr. Tesmer is a frequent contributor to the *Journal* and is particularly well informed on jade as he specializes in supplying cabochons of every color and type of jade to gem collectors. The September meeting was unique. Four members who had made trips West during the summer, and called on many dealers there, were requested to describe the shops and tell what kind of receptions they received in each instance. (We'd like to hear a recording of that meeting. Ed.) The Editor will address the group on October 17th. See details on Page 282.

* * *

GEM CUTTERS GUILD (Los Angeles) heard Victor Arciniega at its July meeting give a talk on IDENTIFICATION OF GEM STONES.

* * *

FLORIDA MINERAL & GEM SOC. (Miami) recently heard Morse Pringle in a lecture on Siberian ivory. He had more than 100 figures carved from this prehistoric material which he dug himself.

ORANGE BELT MINERALOGICAL SOC. (San Bernardino, Calif.) will hold their annual gem and mineral show on November 19-20. See details on Page 282. The following limerick (amended) by Vivienne Dosse, was lifted from their bulletin, the STAUROLITE:

There once was a smug lapidary
Who in club work was very contrary,
When asked to report
He replied with a snort,
"I must polish my vocabulary."

* * *

GLENDALE LAPIDARY & GEM SOC. (Calif.) held another (their second) highly successful and beautiful gem show on August 20th and 21st. Metered attendance registered 5360 as the result of competent publicity arranged by W. H. Seastrom with the assistance of Walter Kohn. This quality show was under the fine direction of Chairman Eldon Soper. The public displayed a great deal of interest in the 227 carat star sapphire displayed by Kazanjian Bros., commercial lapidaries of Los Angeles, and in the jade display of Chang Wen Ti. The society had 36 glass cases of gems and jewelry and 20 tables of miscellaneous items. Among the best displays were those of Willie Peterson Fagerstam (jewelry), Mrs. B. A. Gooch, Chairman Eldon Soper and H. G. Kirkpatrick. Pres. Henry Hodge can well be proud of the successful show put on by his loyal workers.

* * *

OKLAHOMA MINERAL & GEM SOC. (Oklahoma City) reports that shares are being sold in an atom bomb-proof cave in Kentucky. "From cave man to cave man" they say. THE SECOND STONE AGE indeed! Probably the low water mark in society programs was attained at their July meeting when they adjourned because of the humidity — *to play bean bag!* This was followed by some interesting pictures however.

HAVE YOU JUST JOINED A SOCIETY? ARE YOU A NEW ROCKHOUND?

If so you need
these books

GEM CUTTING

by J. Daniel Willems \$3.50

THE ART OF GEM CUTTING

by Dake & Pearl \$1.50

JEWELRY, GEM CUTTING &

METALCRAFT

by Wm. T. Baxter \$3.00

CALIFORNIA GEM TRAILS

by Darold J. Henry \$1.50

(with maps)

HANDBOOK FOR THE AMATEUR

LAPIDARY

by J. Harry Howard \$3.00

POPULAR GEMOLOGY

by Richard M. Pearl \$4.00

All Books Postpaid

California purchasers add sales tax

LAPIDARY JOURNAL

P. O. Box 1228

Hollywood 28, Calif.

RATE — 5c PER WORD PER INSERTION

MINIMUM SPACE \$2.00. ADS UNDER THIS CLASSIFICATION ARE PAYABLE IN ADVANCE. CLOSING DATE AT HOLLYWOOD, CALIF., 1ST OF JAN.—MAR.—MAY—JULY—SEPT.—NOV. FOR FOLLOWING ISSUE. NO CHECKING COPIES FURNISHED CLASSIFIED ADVERTISERS.

Cutting Materials

CHRYSOCOLLA WITH MALACHITE (3/16" slabs)—.45c per sq. inch, Chrysocolla (gem) slabs—.90c per sq. inch, Chrysocolla specimens about \$1.00 per pound. We cast jewelry mountings. Watch for our next ad. Send check or money order with order. Satisfaction guaranteed or money back. ARMSTRONG JEWELRY & CASTING COMPANY, Box 1355, Miami, Arizona.

AUSTRALIAN OPALS. Fine Cabinet Specimens, or Cutting Opal. Good trial assortment, \$15.00. LISTS FREE. Correspondence Invited. NORMAN L. SEWARD "HIGHLANDS," 2 Studley Ave., KEW, Melbourne, Australia.

BIG SHELLS FOR CAMEO CARVING. \$1.50 each postpaid. Each shell contains enough good material, after sawing, for at least a dozen cameos the size of a quarter. DR. RALPH E. MUELLER, 3701 Valentine Rd., Kansas City 2, Mo.

MONTANA AGATE—Selected stones of gem quality. Assorted colored agate and small moss spots. Six pounds for \$7.85 postpaid. Also jasper and petrified wood—\$1.00 pound postpaid. B. M. WARD, 702 Woodbury, Miles City, Mont.

IT IS LATER THAN YOU THINK!! Almost too late to buy SMITHSONITE from the Kelley Mine. Source has been caved in and flooded. Gem material and specimens still available at 50c each and up. NEW MEXICO MINERALS, Box 6156, Albuquerque, N.M.

SPECIAL PRICE ON NEW DESERT SCENIC STONE. Six slabs of 5 inches or more \$5.50. One slab \$1.25 postpaid. Five pounds rough \$5.00. One pound \$1.25 postpaid. Limited supply at this price; order early. R. H. HARTSON, Box 98, Winston, N.M.

FLUORESCENTS for cutting. Beautiful white calcite with black Franklinite and brown Willemite dots from Franklin, N.J. Fluoresces a brilliant red and green under short wave. Guaranteed solid and non-cleavable. Can be cut as thin as $\frac{1}{8}$ inch. Makes beautiful spheres, cabs, hearts, flats, etc. Special wholesale price of ten pounds for five dollars, postage extra. If you don't have a short wave lamp write for our special offer. GARDEN STATE MINERALS, 1034 Bloomfield Street, Hoboken, New Jersey.

BEAUTIFUL SLABS of Arizona variegated agates \$1.00 each postpaid. ARIZONA AGATE MINES, Cave Creek, Ariz.

AGATES—Plume types from famous Central Oregon vein. Slabs; rough. Vug and vein moss agate in reds, canary and green shades. OBSIDIAN—LIMITLESS VARIETY. Nothing more beautiful for gems, spheres, masks, etc. HAMPTON WOOD in greens, reds. Becoming scarce. Sole possessor of other fine agate types. Write for price list. C. G. SPRINGER, 862 Roosevelt Ave., Bend, Ore.

I HAVE MANY VARIETIES OF AGATES and other sorts of rocks including THUNDER EGGS IN POLISHED HALVES AT \$1.00 to \$3.00 each. Montana agates in polished slabs. Many varieties of agatized and opalized woods and seven different sorts of OBSIDIAN POLISHED SLABS. Send \$2.00 to \$10.00 for a choice assortment of the above mentioned Varieties. Postage paid to any part of the U. S. SATISFACTION GUARANTEED OR MONEY REFUNDED. ALEX BEST, 504 2nd Ave., Kennewick, Wash.

NATURAL CALIFORNIA lilac colored specimens corundum crystals in matrix. Priced according to the size and perfection of the crystals in the pieces of matrix. Price \$1.00, \$2.00, \$5.00, \$10.00, and a few very choice pieces at \$15.00 each. Postage paid. Aldrich & Davey, Lapidaries, 9246 Tobias Avenue, Van Nuys, California.

BEAUTIFUL DEEP AMETHYST red synthetic alexandrites with an excellent color change. These gems were cut for a stone dealer who defaulted on his order. Emerald cuts, 10/12 mm average weight approximately 8 carats at \$8.50 each; 12/14 mm average weight approximately 13 carats at \$13.50 each. Cushion cuts, 10/12 average weight approximately 9 carats at \$9.50 each; 12/14 mm average weight approximately 13 carats at \$13.50 each; 12/16 mm average weight approximately 16 carats at \$16.50 each. Oval cuts, 12/16 mm average weight approximately 12 carats at \$16.50 each. Price includes taxes. C.O.D.'s accepted. Aldrich & Davey, Lapidaries, 9246 Tobias Avenue, Van Nuys, California.

VERMONT RED JASPER—\$1.00 per lb. plus postage. If you have not tried this gem stone you have been missing a great treat. The only gem stone of its kind in the world. 14 x 12 and 12 x 10 mm cushion stone ready for mounting at \$2.00 each, center drilled, \$2.50. BURLINGTON GEM CO., 272 North St., Burlington, Vt.

(Continued on next page)

Here it is again. As seen at the Sacramento Convention—*Arizona Snowflake Jasper*—\$1.25 per pound postpaid. Drop around and see us at "Tucson's Rock Trailer." TUCSON THOMPSON, 10016 North Seventh Place, Phoenix, Arizona.

Miscellaneous

NEED ROUGH MATERIAL for facet and cabochon gems. Want many kinds for stocking new store in Hollywood. Amethyst to Zircon, *Good quality agate and wood*. Send sample and best dealer's price to O'BRIEN LAPIDARY EQUIPMENT CO., 1125 N. Hudson, Hollywood 38, Calif.

PROFESSIONAL agate cutter will cut ring, brooch, etc., type stones at wholesale in exchange for *good rough agate* at wholesale prices and in wholesale lots. Especially wants *good* Texas and Montana material; also others. Address Box 123, c/o LAPIDARY JOURNAL, 7231½ Santa Monica Blvd., Los Angeles 26, Calif.

DEALERS and COLLECTORS—Being direct Importers of Zircons, Quartz novelties and Synthetic stones we are able to offer the best possible quality and prices to be had from any source in the country. Commercial quality Zircons less than 1 carat sizes at 60c C. 1 to 2½ carat size at 80c carat. No. 1 quality, less than 3 carat at \$1.25 carat, 3 to 6 carat sizes at \$1.50 carat. A1 Quality less than 3 carat sizes at \$2.50 per carat, 3 to 6 carat sizes at \$3.00 per carat. AAA Quality, the finest to be had from any source, 1¼ to 3 carat sizes at \$3.00 per carat, 3 to 6 carat sizes at \$3.50 per carat. Perfect faceted cut five pointed stars cut from Brazilian gem quality quartz crystal, 5/8" size for ear rings at \$12.00 Doz. 1½" size for pendants at \$21.00 Doz. All are drilled for bail or clevice, 6, 7 & 8 mm. Brilliant Cut quartz stones at 40c each or \$4.00 Doz. 10 to 12 carat sizes at \$1.50 each or \$12.00 Doz. Synthetic Rubies and Alexandrite—colored corundum, best quality and color in most all sizes at \$1.00 per carat. Just arrived, a new Synthetic Star Sapphire, beautiful soft blue with six pointed star, guaranteed to stand a 15% solution of sulphuric acid, 8 & 9 mm. round \$2.00 each, 10 & 11 mm. Round \$2.50 each. 12-10 oval at \$3.50 each. 12-14 oval at \$4.50 each. We are selling the finest quality Synthetic Rutile stones to be had, but by a diamond cutter from the old country and has eight more faces than anything we have seen. It positively is not the yellow Linde products but 100% whiter, more brilliancy than the diamond, harder and tougher than quartz or agate, less than 1½ carat sizes at \$12.00 per carat, over 1½ carat sizes at \$11.00 per carat and we guarantee it to be the best and the most brilliant stone offered today. Our terms are cash with order, less 2%. We pay postage and ship by air mail, and guarantee every item to be satisfactory or will refund your money same day goods are returned. Our new Fall price list is ready, ask for one. J. L. DAVIS & SON, Route 3, Hot Springs, Ark.

CUTTING MATERIAL WANTED, mineral specimens, Indian jewelry, turquoise, scenic wood, opal, lapidary equipment, etc. IN EXCHANGE for the following: Highly bred cocker spaniels (all colors, including silver and platinum); peonies, perennials, ornamental evergreens. Also a few well located 5-acre tracts, close to and between lakes and adjacent to U.S. highway and outdoor theatre in the heart of Minnesota's lake region and the Paul Bunyan Play Ground. Write for descriptive photo leaflet. SKY BLUE WATER KENNELS, Brainerd, Minn.

FLUORESCENT TURITELLA and other type paper weights—\$2.50 each. Exclusive pattern. Letter openers \$1.50 to \$3.00. 3x3x¾" slab fluorescent turitella \$1.00. *Satisfaction guaranteed or money refunded*. CLAY LEDBETTER—*Stonecraft*, 2126 McKenzie, Waco, Texas.

SAWS AND SANDERS FOR SALE—4 used Felker Trim saws, Model 11B and 4 used Cliff's Power feed saws without motors—\$75 each. Also 2 wet sanders, 52" belt—\$100 complete with motor and pump. JUCHEM BROS., 315 W. 5th St., Los Angeles 13, Calif.

"WORKING WITH AGATE"—A Booklet—tells you *how*. Written for the Amateur Gem Cutter. Information on Collecting, Sawing, Grinding, Polishing and Displaying with inexpensive equipment. Price 25c postpaid. MELVIN L. KATHAN, 11 S.E. 78th Ave., Portland 16, Ore.

JEWELRY MAKING. ILLUSTRATED SUPPLY CATALOG 20c. GEORGE SASSEN, 35 Maiden Lane, New York 7, N.Y.

ALASKA GOLD NUGGETS—3 m.m.—30c; 4 m.m.—40c; 5 m.m.—55c; 6 m.m.—75c; 7 m.m.—\$1.00. Minimum order \$2.00. Airmailed prepaid. ALASKA HANDCRAFTERS, Box 1891, Fairbanks, Alaska.

Amethyst for Cabochons
5 pieces for \$1.00
See the middle spread of
GORDON'S

TIGER EYE
Slabs or Chunks
GREEN, BLUE AND GOLD
ROBERT S. BURTON
200 E. 6TH ST. LEADVILLE, COLO.

STAUROLITES (Fairy Crosses) 3 for \$1.10
Transparent, Flawless Obsidian Nodules, 10 for \$1.10
Fluorescent Desert Chalcedony Roses, 10 for \$1.10

MARYANN KASEY

Store: 1720 Chester Ave.
Mail: P.O. Box 968
Bakersfield, Calif.

ADVERTISERS' INDEX

Display advertisers only. See pages 305, 306 for Classified Advertising
IMPORTANT NOTE—If the Page Number is followed by a C (thus — 2C) it means that the advertiser offers a catalog on that page. If the page number is followed by PL it indicates a price list is offered and if it is followed by L it means that literature or a circular is available.
MENTION THE LAPIDARY JOURNAL WHEN YOU WRITE OR ORDER ANYTHING.
Thank You.

ADVERTISER	PAGE
Ace Lapidary Co.	293
Achat-Verlag (Agate Publication)	303L
Adler, Yale	268
Alaska Hand Crafters	299
Alaska Lapidary Service	302
Allen Lapidary Equip. Co.	238C
Alessi	299PL
Alta Industries	277L
Ames Agate Shop	288C
Arizona Agate Mines	285
Armstrong Jewelry & Casting Co.	282
Bensusan, Kilian E.	288
Bickford, Robert W.	299
Bitner's	259
Bones, Thomas J.	301
Bowser's	281
Brehm, B. M.	286-291
Buck, Robert O.	283
Burgard, A. J.	271
Burminco	363C
Burton, Robert S.	306
Caplan, Allan	269
Combs, E. H.	289
Compton Rock Shop	285
Conley Co.	237PL
Covington Lapidary Engineers	280C
Curtis, George C.	287
Davey, George T.	298
Dean Arts	266L
Deming Agate Shop	297
Detectron Co.	261L
Eckert Mineral Research	282PL
El Paso Rock & Lapidary Supply	295
Fulmer's Agate Shop	301
Gault	283
Gem Arts	302
Gem Exchange	281C
Geminlap Mart	243C
Gemmologist	303
Gem Specialties	293
Gold Beach Mineral Shop	292
Gordon's	272-3PL
Great Western Lapidary Equipment Co.	255
Grieger's	245C
Guild	269
Haydis, Hy	293
Highland Park Lapidary Supply Co.	262C
Horton, Grahame	301
Houghtaling, R. O.	301
Howard, J. H.	303
Hyatt Lapidary Equipment Co.	283L
J. J. Jewelcraft	308C
Joachim, E. E.	289
Jordan's, Chuck	300
Juchem Bros.	302
Junkins, O. R. & Son	293PL
Kane Lapidary & Supply	267
Kaysey, Maryann	307
Kehoe, James J.	295PL
Kettering, W. S.	277
Keweenaw Agate Shop	275
Kloffenstein, Mrs. F. E.	294
Lapidary Equip. Co., Inc.	260-269-275-286-300C-301
Loch, C. Frederick	299PL

ADVERTISER	PAGE
Los Angeles School of Jewelry	276
Mariett & Co.	299
M.D.R. Mfg. Co. Inside Front Cover &	303
Michigan Lapidary Supply & Research Co.	Inside Back Cover—C
Mineral Exchange Bulletin	296
Mineral Notes & News	303
Minerals Unlimited	259C
Mission Mineral Mart	289
Mitchell's	303
Montana Assay Office	265PL
Mueller, Dr. Ralph E.	285-299
Murray American Corp.	302
New Mexico Minerals	255
Nonneman's	279
Northwest Gem Importers	291
Northwest Gem Shop	301
O'Brien Lapidary Equip. Co.	247PI.
Odom's	291
Ohlsen, H. F.	301
Opal Specimens, Inc.	291C
Orange Coast Gem Crafts	271
Ostrander, Harry D.	301PL
Pacific Gem Cutters	267
Parmelee, S. N.	289
Parser, A. G., Inc.	283PL
Plummer's	291PL
R & B Art-Craft Co. Back Cover—PL and	275
Regent Lapidary Co.	287
Rock-A-Teer Enterprises	291
Rockologist	286
Royal Gem Co.	253
Schwab, Henry, Lapidary, Inc.	263
Seward, N. L.	292PL
Shipley's Mineral House	281
Smith's Fluorescents	276L
Soper, Eldon	297
Southern Oregon Mineral Exchange	289
Sperisen, Francis J.	251PL
Stein, Fred	301
S-T Gem & Mineral Shop	297
Stetson's	279
Stewart's Gem Shop	297
Stewart Lapidary Institute	294
Sussbach, Herbert	298
Swoboda, Edward R.	295
Tacoma Lapidary Supply Co.	299
Tankersley, V. C.	301
Technical Associates	295L
Technicraft Lapidaries Corp.	265C
Tesmer, Robert	289
Theodore's	271L
Treasure Trove	301
Tynski, Joseph	301
Ultra Violet Products, Inc.	286L
Valley Art Shoppe	281
Waite, Griffin Grant	303
Ward's Natural Science Establishment, Inc.	261PL
Weidinger, Charles	291PL
Wheeler's	285
Whittemore, W. N.	289
Wildberg Bros. Smelting & Refining Co.	251
Willems, J. Daniel	266L
Woodward, J. Frank	299

TIGER EYE

(From South Africa)

Fine Gem Quality Material

Natural red Slabs only	\$.50 sq. in.
Natural blue Slabs only50 sq. in.
Natural green Slabs only50 sq. in.
Golden Slabs only35 sq. in.

Malachite

(From South Africa)

Extra Fine Quality	Per lb. \$5.00
Slabs	\$.50 per sq. in.

20% Federal Excise Tax on the above materials

● ● ●

Diamond Wheel Dressers

Industrial Diamonds mounted in knurled steel handle—6" x 1/2". Just what you need to keep your grinding wheels in A-1 condition.

1/2 carat size \$6.00; 3/4 carat size \$7.00; 1 carat size \$8.00.

Diamond Powder

First Quality Diamond Powder that has been properly graded. Our diamond powder is factory sealed in 1 carat vials and is guaranteed to be nothing but pure diamond powder, expertly graded. You can buy cheaper diamond powder but not better. Try our diamond powder for your facet work and you will see why we buy only the best diamond powder on the market. 100 Grit, 220 Grit, 400 Grit, 800 Grit, and 4 Micron — \$3.50 ct. or 5 cts. \$15.00 2 Micron, and 1 Micron — \$4.50 per Carat or 5 cts. \$20.00.

● ● ●

Felker Diamond Blades

In Stock For Immediate Shipment

Diameter	Thickness	Price	Diameter	Thickness	Price
4"	.020	\$ 6.80	14"	.050	21.80
6"	.025	6.80	16"	.050	24.80
8"	.032	9.00	18"	.060	30.80
10"	.032	11.80	20"	.060	33.80
12"	.040	15.80	24"	.060	43.80

30" and 36" can be supplied on two weeks' notice

★ ★ ★

Special Order Jewelry Work

Our Craftsmen will create for you any type of jewelry in Sterling, Karat Gold or Platinum. Fair prices. Send your gem stones with your sketches for free estimates.

New Catalog

Fully Illustrated — 60 pages, showing a complete line of lapidary and jewelers' supplies. Send for your copy today. Price 25c. Catalog sent free with the purchase of merchandise from any of our ads.

★ ★ ★

J. J. JEWELCRAFT

915 East Washington Street

SYcamore 7-0316

Pasadena 6, California

Open every day but Sunday, 9 A.M. to 5:30 P.M.

VISITORS WELCOME

Note: We have made banking arrangements to handle lapidary equipment on time payments. Write for details.

National Distributor

MICHIGAN LAPIDARY SUPPLY & RESEARCH CO.

332 Hamilton St.

Birmingham, Mich.

BAY STATE

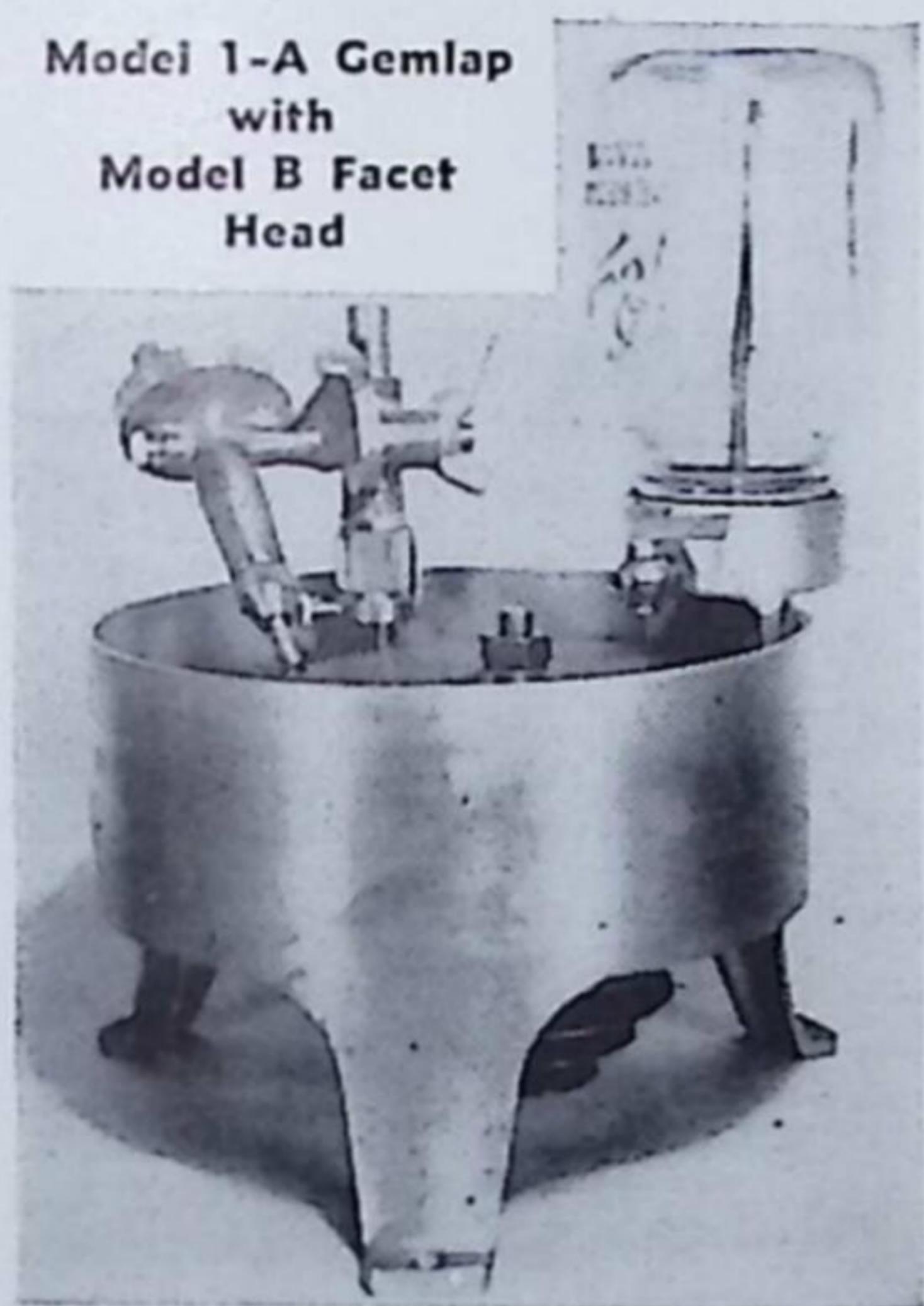
SPECIAL LAPIDARY
GRINDING WHEELS

FASTER CUT
COOLER CUT
HIGHER FINISH
LONGER LIFE

"GEMPLAP"

PRECISION BUILT
LAPIDARY EQUIPMENT

Model 1-A Gemlap
with
Model B Facet
Head



Model 1-A—Reduced
To Only \$32.50

DIAMOND

GRINDING WHEELS

No. 150—For all Cabochon Grinding \$88.80

No. 500—For all Facet Cutting \$88.80

Metal Bonded Diamond Wheels are the fastest and most economical Lapidary Wheels to use.

"GEMPLAP" TRIM SAW

Uses 4", 6", 8" diameter blades (less blade) \$32.50

FH-3 Facet Head

The "Hit" of the Sacramento Show
\$32.50

Triple "V" Block
with 2 face plates
\$5.50

Set of 13 brass as-
sorted dops with
wood base \$8.00

GEIGER COUNTER

\$67.50

The newest and best machine on the market for prospecting and field work. Long battery life. 300 volts instead of 900 insures against high voltage leakage. Weight under 4 lbs., including head phones. Size—5½" x 4½" x 3½". Can be carried in hand, on belt, or by sling. No probe rod or cable required.

Write for Details.

SPECIAL VALUES

7" Solid Tin Lap..... \$ 9.95

6" Solid Copper Lap.. 7.50

6" Lucite Lap..... 2.00

6" C. I. Lap..... 5.00

6" Diamond Lap..... 13.75
600/1200 Grit

6" Diamond Lap..... 16.50
1200/3200 Grit

FALL GEM CUTTING MATERIAL SPECIALS

INDIA BLOODSTONE. A-1 QUALITY. Pieces from 1 to 5 oz.

This Bloodstone has the small red speckles..... \$1.00 per oz.

STAR GARNETS—Star Guaranteed—Stones average about 15 carats and
will cut a 10 carat stone. \$7.50 ea.

OBSIDIAN—Sawed slabs totaling at least 20 sq. in. and including 5 types.
Cereus, Golden, Translucent, etc. A \$5.00 value that is sure to please you \$2.50

CITRINE QUARTZ, BRAZIL. Faceting Quality of good color.
Pieces average 10 carats. 25 carats for \$1.00

All above cutting material prices include Federal 20% Tax and are mailed postpaid.

FREE CATALOGS ON LAPIDARY AND SILVER TOOLS ON REQUEST

STERLING SILVER

Sheet	Wire	Chain	Findings
Jewelers' Tools		Lapidary Supplies	

GEM REFRACTOMETER

Save a lot of argument—check your gems accurately. Index is read directly on a calibrated scale. Range is from 1.35 to 1.80 and up to 1.87 with special liquids. All polished gems will give readings. Entire unit, in a box with a jar of liquid, is only slightly larger than a pack of cigarettes. See article on Page 258.

\$29.00

NU FOAM Gem Display Boxes

Clear plastic boxes for displaying your lovely faceted gems
They stay in place

3 x 5" — 30c each 7 x 10" — 85c each

COLLINS BENCH MANDREL

Hardened steel tapered mandrels—oval, round and square
Interchangeable on a single base \$4.50 each

Steel hardened and graduated ring mandrel \$3.65 each

Ring Sizes \$2.40 a set — Ring Clamps — \$1.25 each

Jota setting burrs — Set of 30 — \$8.80 Milgrain tools — #4, 5, 6, 8
\$1.25 set

Gravers — 45c each Handles for above — \$1.00

* * * *

Montana moss agate — slabbed 75c a pound

African malachite — slabbed 50c a square inch

India bloodstone — Pieces with small red dots — 65c per ounce

Rough blue sapphire for faceting or small cabochons. Pieces up to $\frac{1}{2}$ carat — 15c a carat

Natural ruby — small pieces for faceting or cabochons — 60c a carat
We have a few specimens of silicon carbide, the world's newest gem.
Prices on request.

* * * *

Westinghouse motors — $\frac{1}{4}$ h.p. \$10.50 each

Variable speed motor — $\frac{1}{3}$ h.p. 800 to 2500 r.p.m. (Forwards or backwards) \$48.50 each

Drum sanders — 3 x 8" aluminum — $\frac{5}{8}$, $\frac{3}{4}$, 1" arbors \$6.00 each

Alta belt sanders \$18.50 each Extra belts for sander 3 for \$1.00

California Residents Add 3% Sales Tax

For Price List Write Dept. L

All Prices F.O.B. Los Angeles

R and B ART-CRAFT CO.

11021 South Vermont Avenue

PLEASANT 1-1326

Los Angeles 44