

# The Lapidary Journal



SCARABÆUS SACER

JUNE, 1948

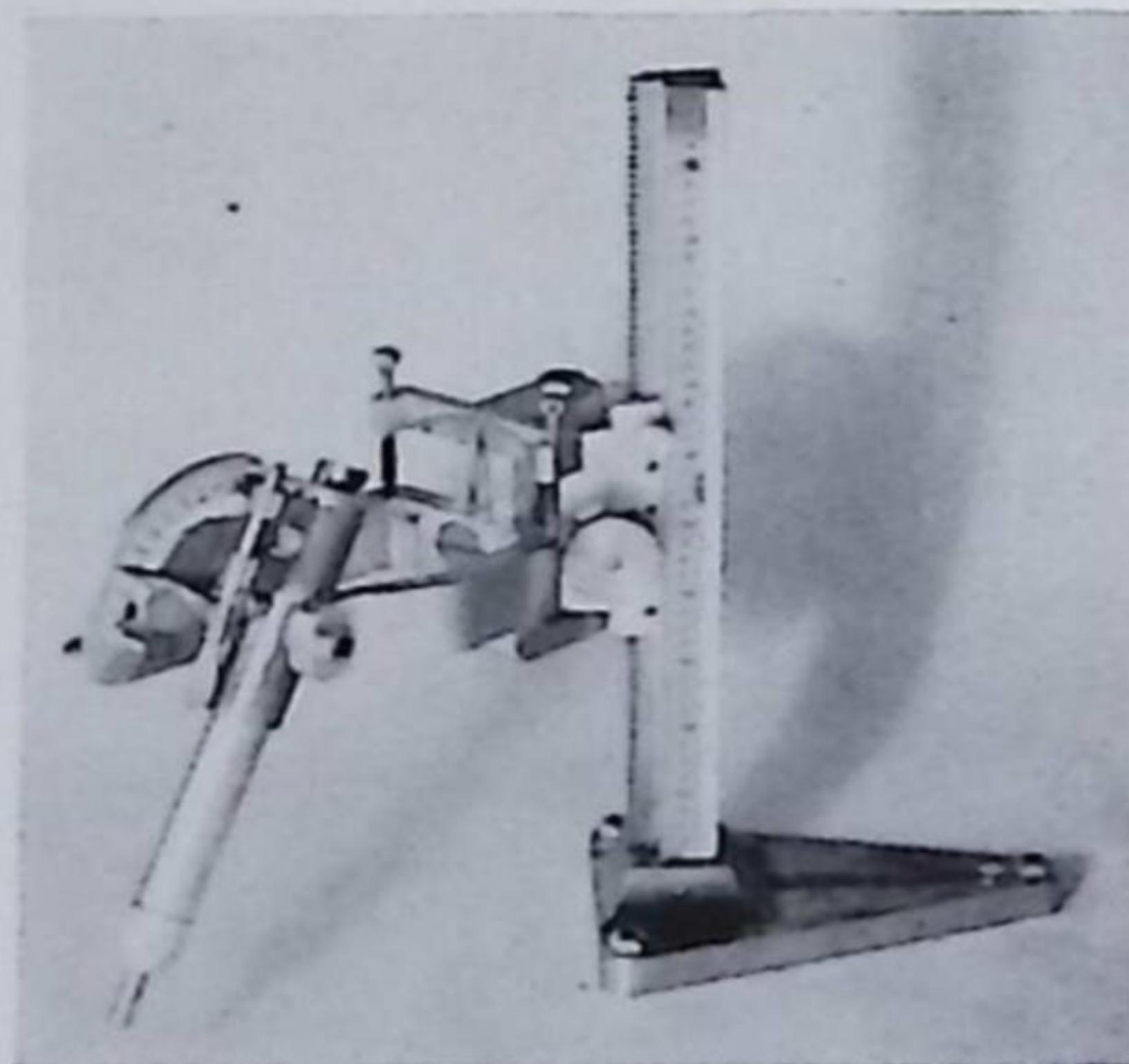
*A National Magazine for*  
GEM CUTTERS + COLLECTORS + JEWELRY CRAFTSMEN  
Hollywood, California

VOLUME 2

50c PER COPY

NUMBER 2

*Introducing the*



### **FACETING HEAD**

Declared by many Professional and Amateur cutters to be the greatest advance in a Facet Head in the last Century. Special custom made, non-corrosive construction (where practical). Finger tip control (fast and positive). Compound angle feature (exclusive master). Permits the cutting of hearts, marquise, pendeloque with the same ease as cutting round brilliants. Slotted tripod base, head can be moved away from lap to grind and polish girdles. Hardened needle point pivots, insuring a lifetime of wear. Adjustable gib in mast to compensate for wear. Collet type chuck, elongated hole in protractor to compensate for adjustable stop. Calibrated column to enable the cutting of a number of stones of the same size. Head can be used on 8", 10" and 12" laps. 64 index standard equipment, 40 and 48 available on request. The master head available in Right or Left hand models. Right hand shown in picture. A precision tool for precision work. Price \$98.50 F.O.B. factory.

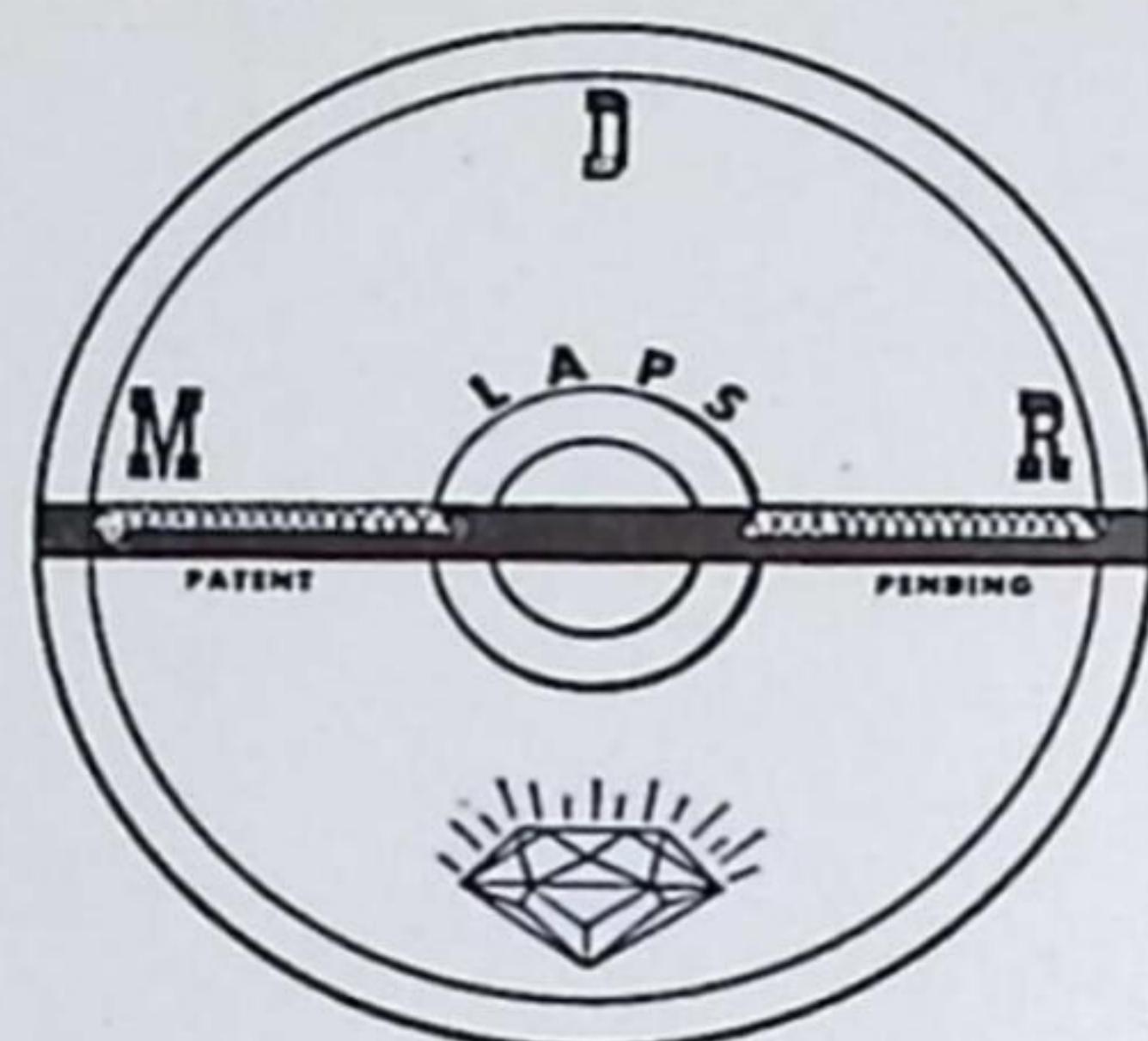
California purchasers add sales tax

### **OPENINGS FOR DEALERS**

**M. D. R.**  
**Manufacturing**  
**Company**

5710 1/4 South Western Avenue  
Los Angeles 37, California  
Phone AX-2-9818

### **M.D.R. LAPS FOR FACETING**



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

Catalog	Price	Catalog	Price
No. 27—Tin	..\$12.75	No. 30—Type	..\$7.65
No. 28—Tin & Type	..\$10.00	No. 31—Pitch	..\$7.00
No. 29—Lead	..\$7.00	No. 33—Lucite	..\$4.20

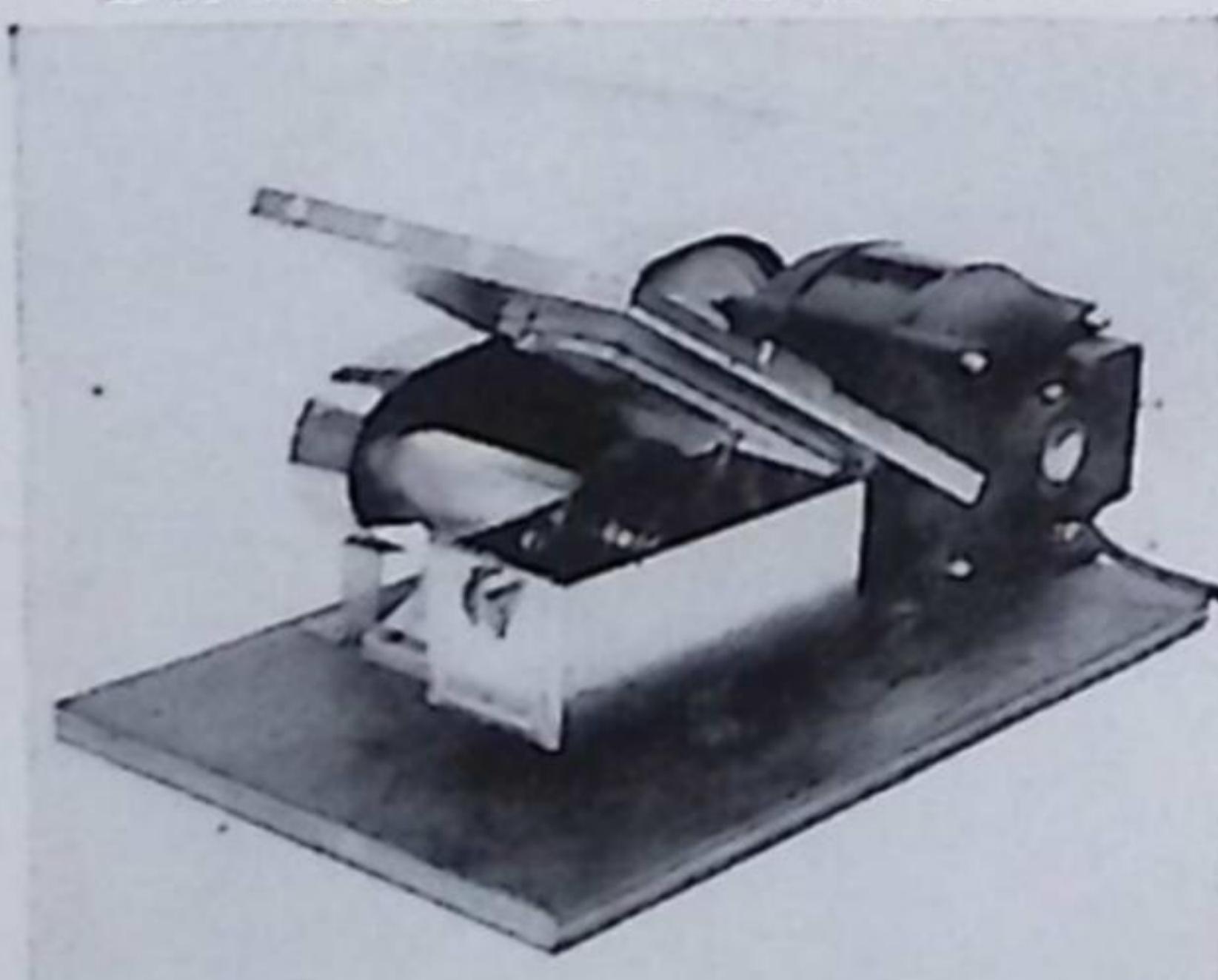
**No. 32**—Diamond, impregnated copper, 400 grit one side, 800 grit other side, price \$22.50.

Something new—grind and polish on same lap.

**No. 34**—Combination copper and tin, 1 3/8" of copper impregnated with 800 diamond, with 3 3/4" insert of tin, \$25.20.

Above prices are for 8" laps—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.

### **DIAMOND TRIM SAW**



#### **M.D.R. 4" Diamond Trim Saw No. 101**

Aluminum alloy arbor, steel table, tank, guard and square head. All steel surfaces nickel plated. Precision ball bearing spindle. Tank dimensions.....3"x3"x8" Table dimensions.....8"x11" Arbor size .....1/2"

Picture shows ease by which blade can be changed or tank removed for cleaning.

Tank and table can be removed in a few minutes and a jeweler's taper point installed for a polishing arbor for silver polishing or CARVING.

Price (less blade and motor) \$32.50 F.O.B. Factory. Calif. purchasers add sales tax.

# ★ *Sterling Silver* ★

## *Sheet - Wire - Chain - Findings*

Synthetic Faceting Material

Natural Faceting Material

Faceting Equipment and Supplies

Drum Sanders

Sanding cloth

Grinding Wheels

Grinding and Polishing Arbors

Polishing Wheels

Dopping Wax

Alcohol Lamps

Jeweler's Tools

Polishing buffs and materials

Engraving tools and handles

Hand Vises

Soldering equipment

Dapping blocks

Dapping punches

Tweezers

Jeweler's pliers

Jeweler's Saw Frames

Jeweler's Saw Blades

Visit our display at Long Beach Municipal Auditorium

July 16, 17 and 18th

at the California Federation of

Mineralogical Societies Convention

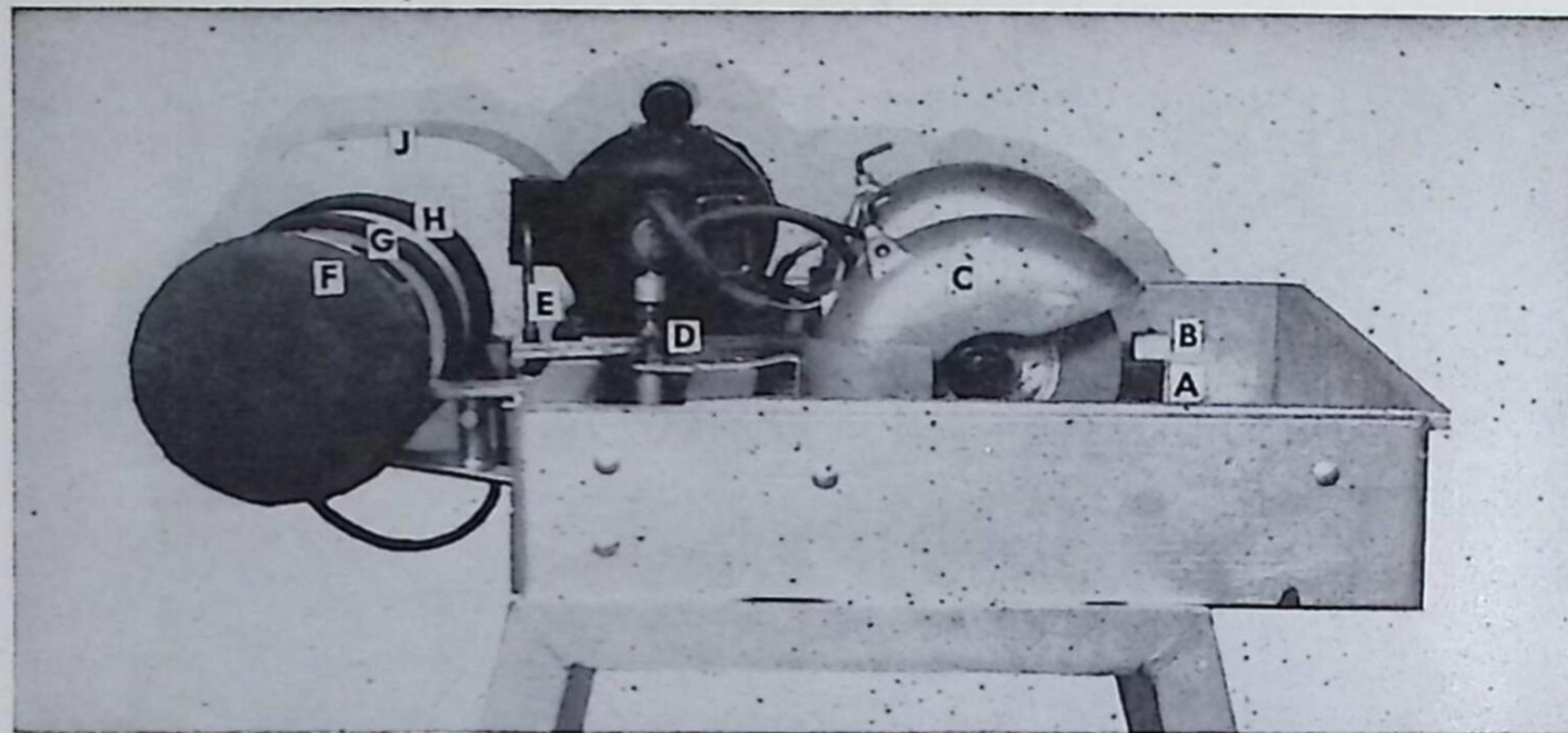
**R & B ARTCRAFT CO.**

11021 So. Vermont Ave.

Los Angeles 44, California

PLeasant 1-1326

# Modern Tools for an Ancient Art



## ALLEN COMBINATION GRINDING, SANDING AND POLISHING UNIT

*This is an ideal outfit for lady lapidaries for it requires no wheel changing.*

*It is ideal for the lapidary who has no room for a shop.*

*It is ideal for apartment and flat dwellers.*

Everything in one machine—but not a toy. Two people can work at the same time and not be in each other's way.

Either shaft operates from the same motor by use of a reversing switch on the motor.

Feature pump and spray keeps the ENTIRE wheel wet and reduces cost of grinding wheels. NO PLUMBING REQUIRED.

The COMPLETE UNIT (less motor) includes: Grinding unit with TWO 8x1½" wheels, Water Pump, Two 8x3" Sanders, One 8" Hollow Head Sander, 4 Section 8" Loose Cloth Polishing Buff and Splash Guard, Welded Angle Iron Stand

**PRICE \$195**

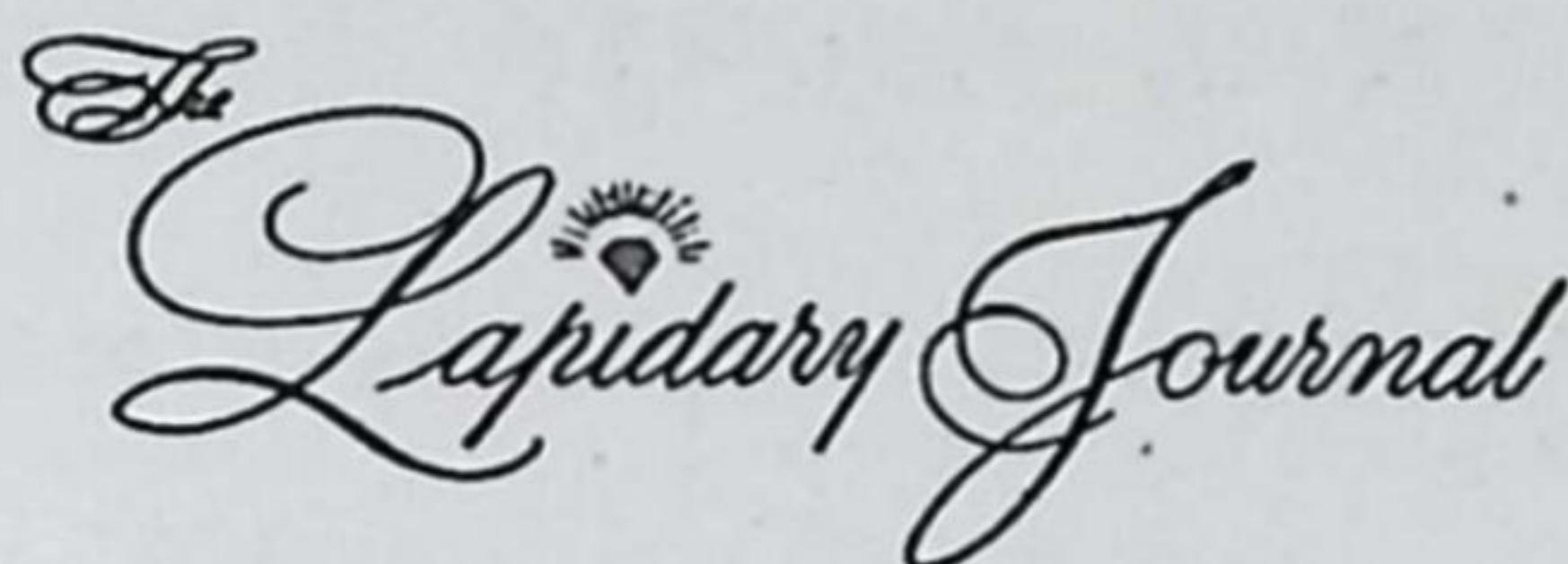
Crating charge for shipment \$4.00

*Visit our booth at Long Beach*

**ALLEN LAPIDARY EQUIPMENT COMPANY**

3632 W. Slauson Avenue, Los Angeles 43, California

Gene Allen, Proprietor — Telephone AXminster 2-6206



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

SIXTH ISSUE

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

Volume Two

June, 1948

Number Two

TABLE OF CONTENTS

COVER—EGYPTIAN WITH SCARAB—See story on Page 77.

	PAGE
FINE CARVING WITH NAILS by William Pester .....	64
KIPP'S SHOP by Lelande Quick .....	68
A NEW GEM MATERIAL by Griffin Grant Waite .....	74
WHAT ABOUT MONTANA AGATES? by Harold Odle .....	78
SIMPLIFIED JEWELRY CASTING FOR THE BEGINNER by Theodore Ittner .....	80
DONAL HORD RECEIVES AWARD .....	86
HAVE YOU A "DARK GENTLEMAN" IN YOUR PETRIFIED WOOD PILE? .....	86
THE PENSCOPE—A NEW POCKET MICROSCOPE by Ralph T. Salsbury .....	88
NEW LAPIDARY MARVELS by Lelande Quick .....	92
ALASKA PIONEER LAPIDARY by Fred Bahovec .....	100
\$2000 IN CASH PRIZES FOR GEMS .....	104
CARTOON by Millie .....	104
THE BIG CONVENTIONS .....	105
AN 8000 MILE GEM COLLECTING TRIP (Part 3) by Hal E. Pearsall .....	110
BEGINNERS PAGE .....	116
GLENDALE GEM SHOW .....	117
GENERAL GEM NEWS .....	118
SHOP HELPS .....	120
ANSWERS TO INQUIRIES .....	122
NEWS OF THE SOCIETIES .....	124
CLASSIFIED ADVERTISING .....	127
GEMS FROM THE MAILBAG .....	128
GEM EVENTS (list) .....	130
CATALOGS AND PRICE LISTS (list) .....	131

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.

Manuscripts on lapidary, gem and jewelry subjects, as *contributions*, are solicited. Correspondence should precede submission. Copyright, 1948, 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 All Back Copies  
(there are 5)—50 Cents per Copy  
Volume One Complete (4 issues)—\$1.85

Display Advertising Rates  
Furnished on Request

LELANDE QUICK .... *Editor and Manager*  
ALETAH QUICK .... *Circulation Manager*

# ♦ Fine Carving With Nails

By WILLIAM PESTER

693 Spruce Street, Los Angeles 12, Calif.

Most people reading or hearing about the lapidary art get the impression that a lot of expensive machinery is required to produce creditable results. This is quite erroneous. Consult any illustrated book on archeology, or go to any good museum, and you will see some wonderful examples of artifacts which were done many centuries ago when the lapidary machinery used today was not even dreamed of. Even in these times there are sections of our world where gems are cut and carved by the crudest of methods. Consider Chinese jade carvers and you will perceive my thought. To be sure, they can't turn out a nice cabochon in a few minutes as we can today. However, a person who thinks of passing spare time pleasantly and usefully does not always think of mass production. The moment your hobby becomes commercialized it ceases to be a hobby and too often becomes slavery. I produce for the joy and satisfaction it gives me, and not for any money my efforts will bring. I am still a kid (at 63) experimenting and passing the time.

Toward the end of 1940, and for several years thereafter, I found myself in a situation where I was "frozen" to a certain locality. Time was heavy on my hands. At first I tried to pass the time by reading and dreaming but I have an active disposition and this soon became monotonous. I cast about for something more satisfactory to do as a means of escape. In my reading I came across "A Handbook on Archeology" with many illustrations of articles found during excavations in tombs and ancient dwellings. The various forms of scarabs found in Egyptian tombs especially attracted my attention, and that finally gave me an idea.

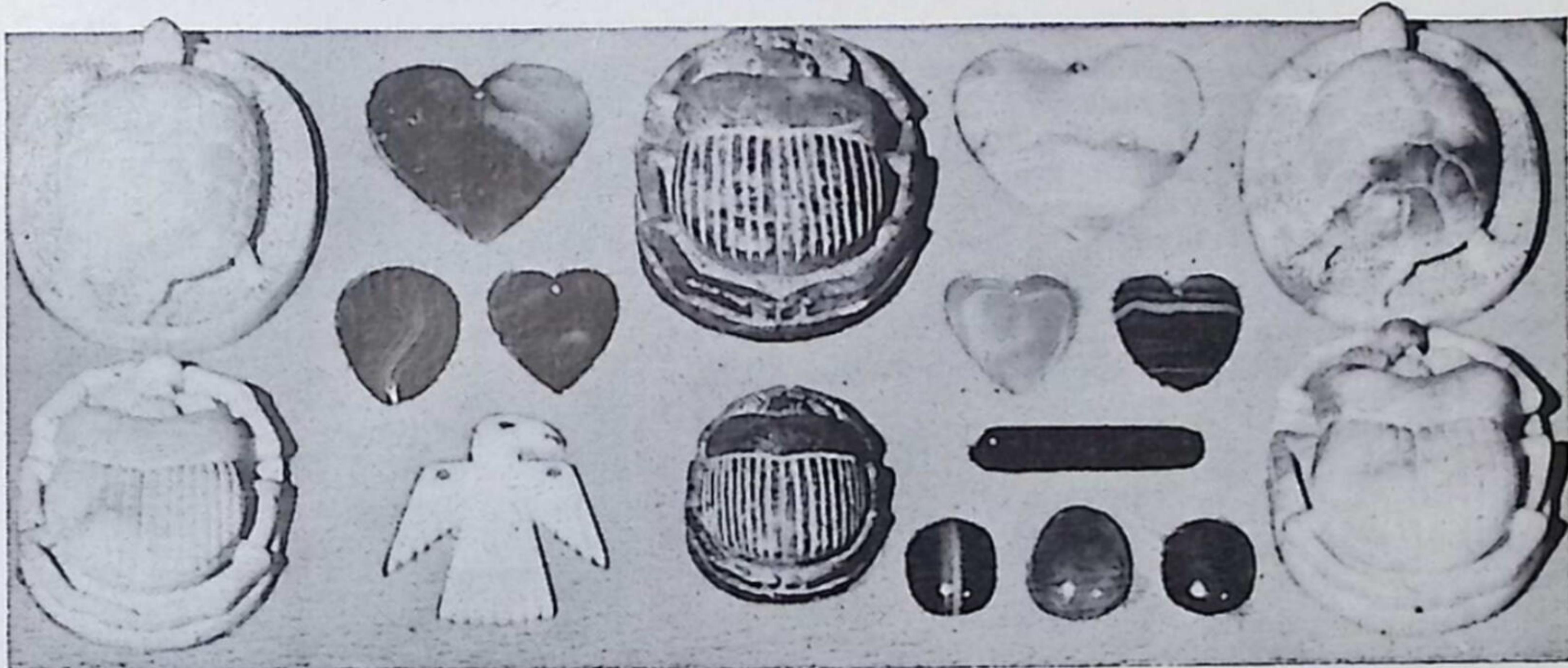
I wrote to my friend, W. Scott Lewis, Hollywood gem and mineral dealer, to send me some soft materials which could be worked easily with the simplest of tools at my disposal. Regular grindstones, abrasives and tools were not available where I was located. I received from Scott a variety of materials—soapstone, fluorite, ricolite, malachite and Inca Rose (a rhodochrosite from Argentina).

The soapstone was the most suitable for my purpose at first. I obtained a piece of a hacksaw blade from a nearby garage and sawed the hunks into slabs about one half inch thick. I smoothed the tops and bottoms by rubbing them on the cement sidewalk to remove the saw-marks. After that I cut suitable blocks of various sizes from these slabs. To get the sides of the blocks square with the base I nailed a piece of 2 x 2-inch wood to the endpiece of an apple box and held a piece of sandpaper against the 2 x 2-inch piece, rubbing the side of the soapstone block against it until it was smooth, square and oval all around. I next divided the thickness of each block for a scarab into three more or less equal parts by scratching two lines around the block. One formed a base and another formed the center for the thickness of the legs. This left a top for the body. The base was just a trifle thicker than the top. I also scratched a center line on the top of the block to help center the design. Then I made tracings of several scarabs from the "Handbook of Archeology." From these tracings I sketched a master design for my particular use, similar to the design shown on the cover of this issue of the Lapidary Journal. I transferred a copy of this master design to the top of one of the soapstone blocks and cut in with a pointed nail all around the design. The block was now ready for carving.

My first set of tools was fashioned from three carpenters' finishing nails, each 3 inches long (see illustration). One was pointed for scratching in the outline of the design and for working in the corners. Another had a beveled edge for cutting downward, and for making grooves. Another was rounded with a cutting edge on both sides for cutting backward and forward. These enabled me to give the proper shape to the body, legs, head, mandibles, antennae etc. I was now ready for the task and, keeping the master design beside me for comparison. I set to work. In

a week's time I had a finished scarab to show for my efforts. With a bit of fine sandpaper from a carpenter shop refuse pile I gave it a final sanding. By rubbing it against my cheeks and forehead for "oiling" I obtained a pleasing dark gray-green finish or "polish." Rubbing it briskly against coat sleeves or pant legs also helped.

I made four of these soapstone scarabs. Three were  $2 \times 2\frac{1}{2}$ " while the first one was  $1\frac{5}{16} \times 1\frac{1}{2}$ ". I wrote to Mr. Lewis again to send me some material a little harder and less fractured than soapstone. In due time he sent me some compact alabaster (from Fort Collins, Colorado) which was of a pleasing white to pink to red-brown in color. It was almost ideal for my type of carving and the "tools" at my disposal. I made six of the alabaster scarabs. I also made two turtles  $2 \times 2\frac{1}{2}$ ". One of these is now in the possession of the Editor of *Natural History Magazine*, Mr. Edward M. Weyer, Jr., of New York City, and greatly admired by him and his friends, associates and visitors.



While waiting for the alabaster to arrive, I was not idle. I took some of the pieces of malachite and Inca Rose I had received with the soapstone and began making cabochons. I had no grindstone so I took a bottle of water and sat down on the concrete pavement. I soaked it and started rough grinding and shaping the several pieces of material I had. While I was thus occupied a number of fellow idlers gathered around to watch my "antics." Some thought that I was "goofy" while others perceived what I was trying to accomplish. Almost immediately I received help in my efforts to improve my time. Some brought me sandpaper (garnet paper) of various degrees of fineness and others had pieces of carborundum cloth. One man produced a piece of a carpenter's carborundum hone with a medium and fine grit on reverse sides. I used these things for fine grinding and sanding. I laid the sandpaper and carborundum cloth on a small piece of pine board to obtain a solid backing and a flat surface. I then obtained a piece of felt hat. From a dental student I secured some tin oxide and jeweler's rouge. I was now prepared to obtain a final polish by using a goodly amount of "elbow grease." For dopsticks I used various sized carpenters' nails; from shingle nails for small cabochons to large ones for the larger cabochons. I made my dopping cement by melting pieces of celluloid toothbrush handles in acetone. With this I stuck the cabochons to the heads of the nails, giving them a day to "set." In this manner I saved my finger tips from wearing out too fast.

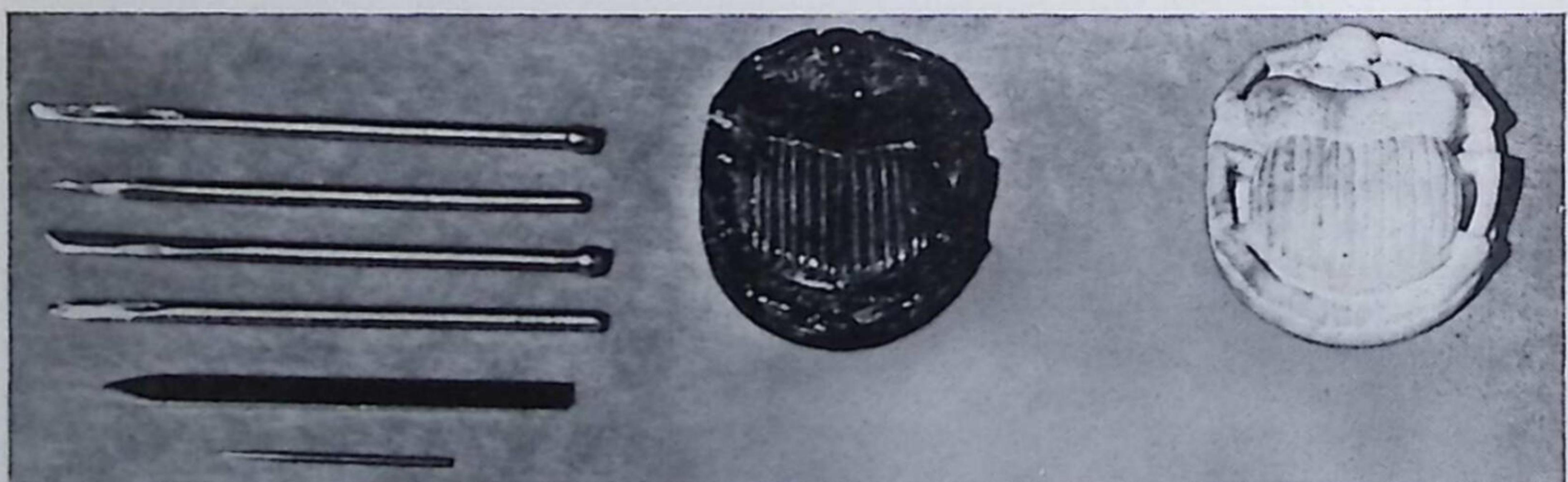
"Necessity was Edison's grandmother," someone has said, and people have no idea how many things they pass by in every day life which can be used, when needed, to realize an ambition. One man brought me a fine piece of abalone shell, which I turned into colorful ring sets, hearts and pendants of various sizes and shapes. This material takes a high polish with the least amount of effort. Depending upon the hardness of my material (malachite, Inca Rose, onyx, abalone, jasper and agate) I produced one or two cabochons a week. That does not seem like

much, but by the end of a year I had about 75 cabochons, hearts and pendants to show admiring friends, well-wishers and onlookers. It satisfied my ambition to create. If others will do the same they will find that it adds prestige among neighbors, which is more than a loafer has to show for an equal amount of time. In a few years you will have a collection to be proud of.

I now traded some of my handiwork for sweets, stamps and other things I could use and I became known for my "industry." Friends brought me bits of steel (from which to fashion better tools), small tools, files and drill points, which I could put into a handle or gin vise. These facilitated my work and I discarded the "tools" I had made from nails.

To saw pebbles and small pieces of obsidian, jasper, agate, tiger eye, etc. which were too hard for a hacksaw to cut, I finally obtained a very small amount of 220 grit carborundum powder. I bent a 6x1" strip of tin from a tin can at right angles (lengthwise, to stiffen it). I fastened the material to be sawed to a board by driving several shingle nails around the circumference to hold it steady. Then I put a drop of water or kerosene and a few grains of grits where I wished to make the cut and started sawing back and forth with the tin blade, adding liquid or grits as needed. It is a trifle difficult to get started but it becomes easier as the cut deepens. When about half through turn the pebble over and start from the opposite side. It will finally break in two by itself before the cut is completed. You then have two bases already well started, and in this manner you will get two cabochons from one pebble which might be too large for a single cabochon. I have often spent five or six hours making a cut in jasper or agate. Softer material naturally saws faster.

If there are any readers whose time is hanging heavy on their hands, who have little or no cash to spend on expensive tools or machinery, you may take heart from my experiences and you will find that friends and admirers will come to your assistance with tools or materials. If you are willing to improve your leisure time, which might otherwise be wasted in loafing, the effort will be conducive to happiness and contentment. "An idle mind is the Devil's workshop" is an old adage.



*Carpenters' nails used by Pester in his carving, together with two of his fine scarabs.*

### WANTED FOR CASH

Old collections of GEM materials, particularly GOOD rough material.

No large lots of petrified wood, common materials or "rock piles" wanted. Will consider rock stocks of scarce and unusual materials only.

No Mineral specimen collections wanted unless they contain a fair amount of gem materials.

*Send description and quote price wanted to  
1130—BANK OF AMERICA BLDG.  
SAN DIEGO, CALIF.*

### 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.

# WARD'S MINERALS for CUTTING and POLISHING

WARD'S takes great pride and pleasure in offering a selected group of gem minerals suitable for cutting and polishing into gemstones and cabinet specimens for the collector. Fine specimens from all corners of the world await the professional or hobby lapidary and the mineral collector. Other mineral specimens of quality and color are listed in Ward's extensive Mineral Catalogs, available upon request.



Mammoth Clear Topaz Crystal from Brazil, \$200.

## CABINET SPECIMENS OF CLEAR BRAZILIAN TOPAZ CRYSTALS OF UNUSUAL SIZE

Mammoth, clear topaz crystal,  $4\frac{3}{4} \times 9\frac{1}{2}$ ", \$200.00  
Large, clear topaz crystal,  $5\frac{1}{4} \times 9 \times 4\frac{1}{2}$ ", \$140.00  
Topaz crystal,  $4 \times 5\frac{3}{4} \times 3\frac{1}{2}$ " ..... \$50.00

## A SELECTION OF GEM MATERIALS SUITABLE FOR CUTTING AND POLISHING

Brazilian Andalusite\*, pale olive-green and pinkish color,  $3/16 \times 3/8$ " ..... 75c  
Brazilian rutilated quartz, brownish color, pieces weigh up to 3 lbs. ..... \$5.00 lb.  
Brazilian Tourmalinated quartz, enclosing blue capillary crystals ..... \$1.50 lb.  
Brazilian Tourmalinated quartz, enclosing black acicular crystals, water-clear .. \$4.00 lb.

ALL PRICES ARE F.O.B. ROCHESTER, N. Y., PLUS COST OF PACKING — 20% FEDERAL EXCISE TAX EXTRA ON ITEMS, UNLESS OTHERWISE STATED.

\*SEND FOR A COPY OF LIST S-4 — "WARD'S MINERALS FOR CUTTING AND POLISHING"

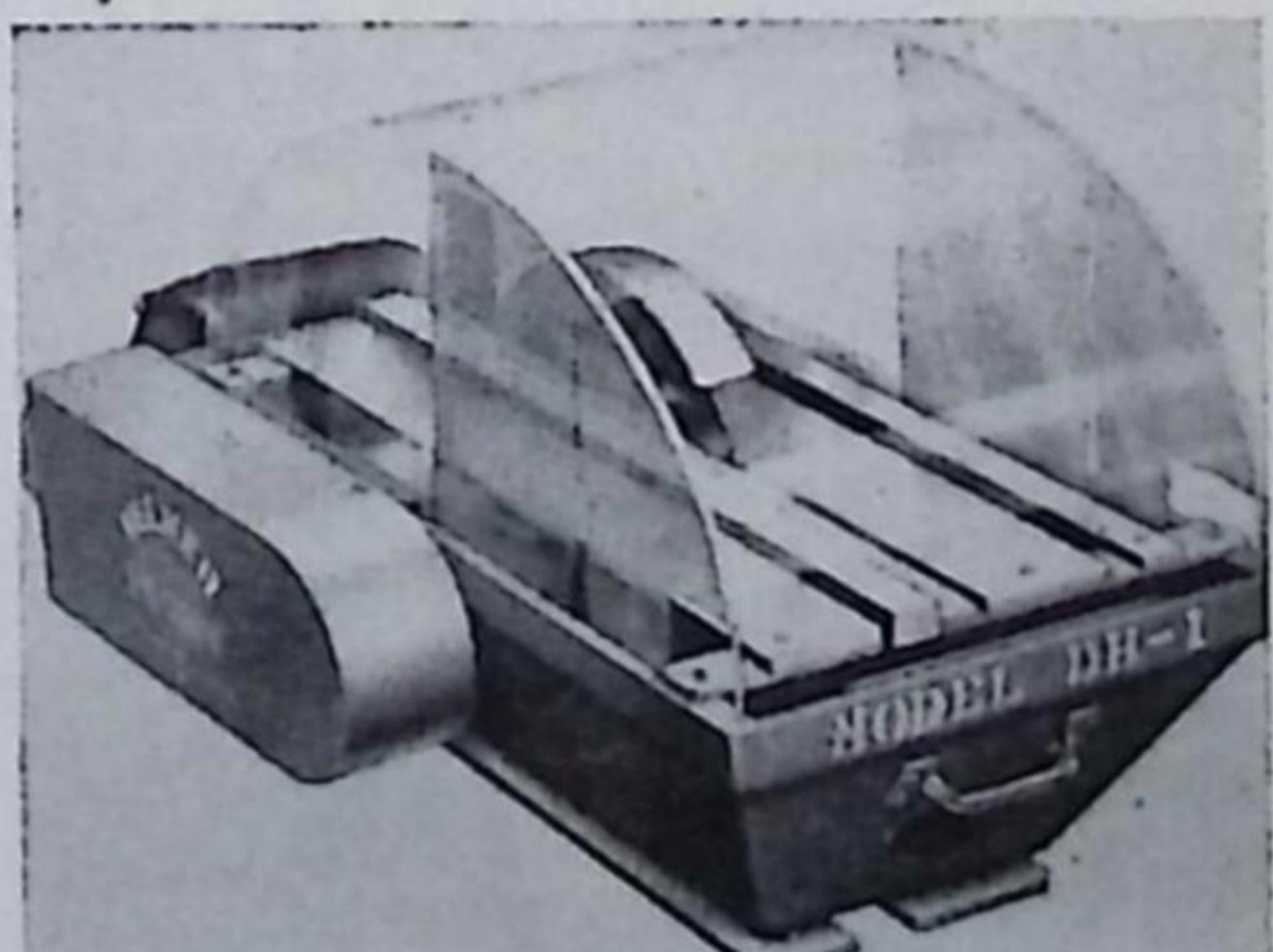
## MAKE WARD'S YOUR HEADQUARTERS FOR LAPIDARY EQUIPMENT, SUPPLIES

INSISTENT demands for precision-made lapidary equipment are answered by Ward's. A selection of the finest materials are ready for immediate delivery. Write for a completely illustrated catalog on Mineral Supplies and Equipment. As shown in this catalog, one of the most popular cut-off saws:

### DI-MET Model DH-1 Cut-Off Saw

Basic unit, complete, priced less motor. Includes No. G806, 8" standard blade guard, No. 822A type V-belt, motor pulley, spindle pulley, No. 805A rip fence assembly, No. 804A right angle guide assembly, 1-8" standard rimlock blade..... \$87.50  
F.O.B. Rochester

Accessories are available



**WARD'S** NATURAL SCIENCE ESTABLISHMENT, INC., P. O. BOX 24,  
BEECHWOOD STATION, ROCHESTER 9, N. Y.  
SERVING THE NATURAL SCIENCE FIELDS

# ◆ *Kipp's Shop*

By LELANDE QUICK

Just as the conventions are coming along (political and gem-mineral) it is a relief to get among a group where there is another topic of conversation. If you are a lapidary in Southern California and you get among a group of kindred souls there is only one topic of conversation there and that is *Kipp's Shop*.

A year ago in April, Solon S. Kipp, a San Diego attorney, joined the San Diego Mineral & Gem Society. Today he has, without argument, the finest lapidary shop in the country and he is engaged in a program of educating 90 people in four classes a week in gem cutting. This has never been equaled by any other concentrated effort in a single community for the lapidary art.

It all came about because Mrs. Kipp's feet were sore. The Kipps have taken lengthy vacations every year for a long time; seldom less than three months and many times a half year. In October 1946, Mr. Kipp paused by the Oregon sea to admire the scenery. His wife was curious about the activities of the people along the beach and she proceeded to investigate. Kipp got tired of waiting and went to get her, whereupon he was accosted by a lady who asked him if he "had found any." "Any what," said Kipp, "clams?" "No, No," replied his questioner, "agates. Look—see the sun through this one?"

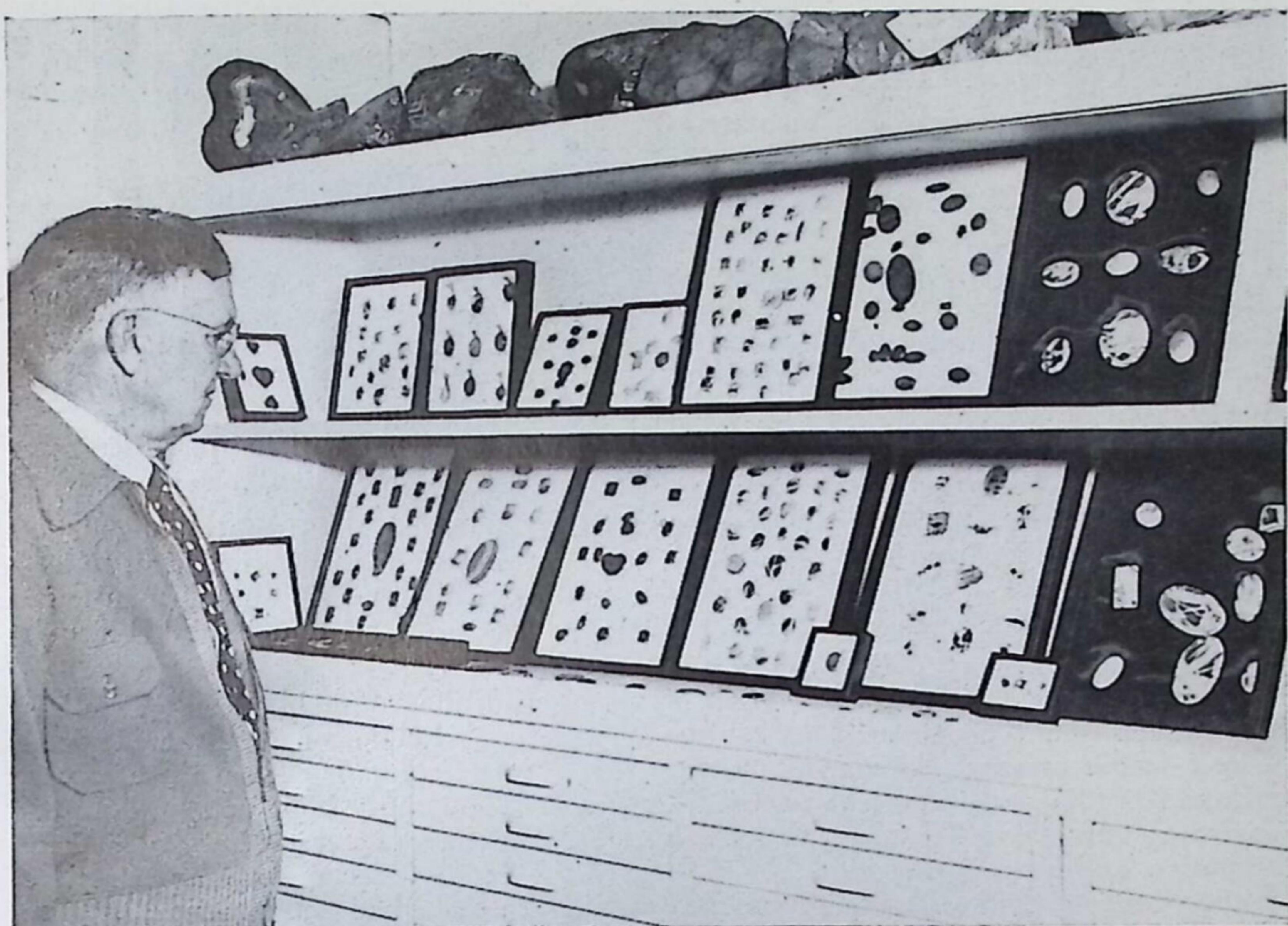
Having nothing else to do to kill time, and not seeing Mrs. Kipp anywhere around, he proceeded to hunt for some agates. When his wife made her appearance she had found some fair agates and told Kipp he'd have to cut them for her. "What do I know about cutting agates?" he said. "You don't know a thing but you're going to learn," replied Mrs. Kipp. "I talked to a dozen women and they all told me their husbands cut agates for them so you're going to cut these for me."

Little more was said about agates until a few days later in Seattle when the Kipps happened upon a window display containing some polished agates—and a HILL-QUIST diamond saw. "There you are Solon. Just what you're looking for. Let's go in and have it sent home. Anyway my feet hurt and I just have to sit down." If it hadn't been for the tired feet, Kipp might have walked on. Then a lot of people would have missed a lot of happiness—and so would Kipp.

By the time the Kipps got back to San Diego the saw had arrived and so had a lot of rock Kipp had gathered in Oregon. At the Priday beds he dug out a hundred thunder eggs to get them out of the way of what he was looking for before he realized that the things he had been discarding were the thunder eggs themselves. They were the best he's ever seen, he claims, but he has just started on a whole ton received last month from Mr. Blanchard.

After experimenting with a few agates Kipp was really stumped when he came up against a piece of onyx. He couldn't get a polish on it to save his life. He took it to a prominent member of the mineral society he had joined and asked questions. He got no reply for the man he questioned tried to sell him something else. When he made it plain that he wasn't buying but asking he was told to "come up to the house, I'm sure I've got some stuff at home you'd like to buy." By that time Kipp was mad and he determined right then that he'd find out things for himself—he'd buy every piece of equipment there was on the market and he'd do every kind of lapidary work there was to be done, and he'd answer anybody's questions. And he is doing just that.

He needed room for a shop so he built a new garage on his vacant lot next door and remodeled the old garage into a lapidary. It is a model of convenience and completeness. But it has become too small for his large classes so he has ordered three more M.D.R. faceting outfits and is going to make the new garage next door into a faceting room. His home has to make way for the things he used to keep in the garage—his miles of fine colored film, his great collections of seashells, his hundreds of books, etc., etc. The plans are now going down on paper for a new



*Kipp looks at some of his fine work*

home elsewhere and Mrs. Kipp says there isn't going to be even a building stone in it if she can help it. Of course, Mrs. Kipp has become an accomplished lapidary herself but her new interest is going to be her new home for a while.

We present in several pictures various views of Mr. Kipp's shop. He has a Highland Park "Big Bertha" 36" Saw unit, one of the new Great Western diamond saws, two Highland Park 16" saws, a Hillquist trim saw and an Allen trim saw. He has a Covington lap for every size grit—five of them in a row so that a lapidary can just proceed from lap to lap and lose no time. He has an M.D.R. Mfg. Co. complete faceting unit built into a desk, has three more on order and he is experimenting with a new bead mill built for him by them. The shop also contains a Hillquist lap and a Hillquist drill press and button machine. There is a line of grinding heads, four Highland Park sanding units and a polishing unit. There is every other device, powder, tool, buff, grit, marker, template, etc., that could ever be in demand by the fussiest gem cutter. There are even 45 new steel chairs and yet Kipp has to stand himself occasionally.

In the pictures the reader can see the hundreds of drawers in neat cabinets, the fine wall display cases with a direct light on each one, the fluorescent lighting and the hundreds of boxes of cutting material. What cannot be seen is the many thousand dollars worth of silver and faceting materials stored in the cabinets. And of course what cannot be seen to advantage is the vast collection of superbly polished materials that Kipp has turned out in a year. "It will all be at the show of the San Diego Mineral & Gem Society in Balboa Park in October," says Kipp, "and the public can see it then."

Solon Kipp is a big friendly man from Tennessee. He was chagrined when we advertised that Tennessee was the only state where we had no subscribers and he corrected that situation immediately. He is one of San Diego's foremost attorneys and authorities on title law but his success has left him a modest man who is as easy as an old shoe. After spending considerable time with him I never heard him say once how much anything cost. Estimates of his friends as to the total of his lapidary

spending run as high as \$75,000, but those in a position to know advise that the absolute minimum investment Kipp has put into his shop and materials is \$25,000 "and probably nearer twice that." We use the term "investment" because that's what it is. It is an investment in human happiness—Mr. Kipp's own happiness and that of many others.

The San Diego Mineral & Gem Society has 214 members. About half of them are in the Lapidary Division and about half in the Resources Division. Ninety of those in the Lapidary Division are regular weekly students at Kipp's Shop and they are all JOURNAL subscribers. He has two restrictions—attendance must be faithful and it must go on for two years. In two years every member of the Lapidary Division will know every phase of lapidary and jewelry craft. They will be able to turn successfully to anything—cabochon cutting, faceting, jewelry work, sphere cutting, button and bead making and the making of novelties. One wonders what will happen then and what a display of their work collected under one roof will look like!

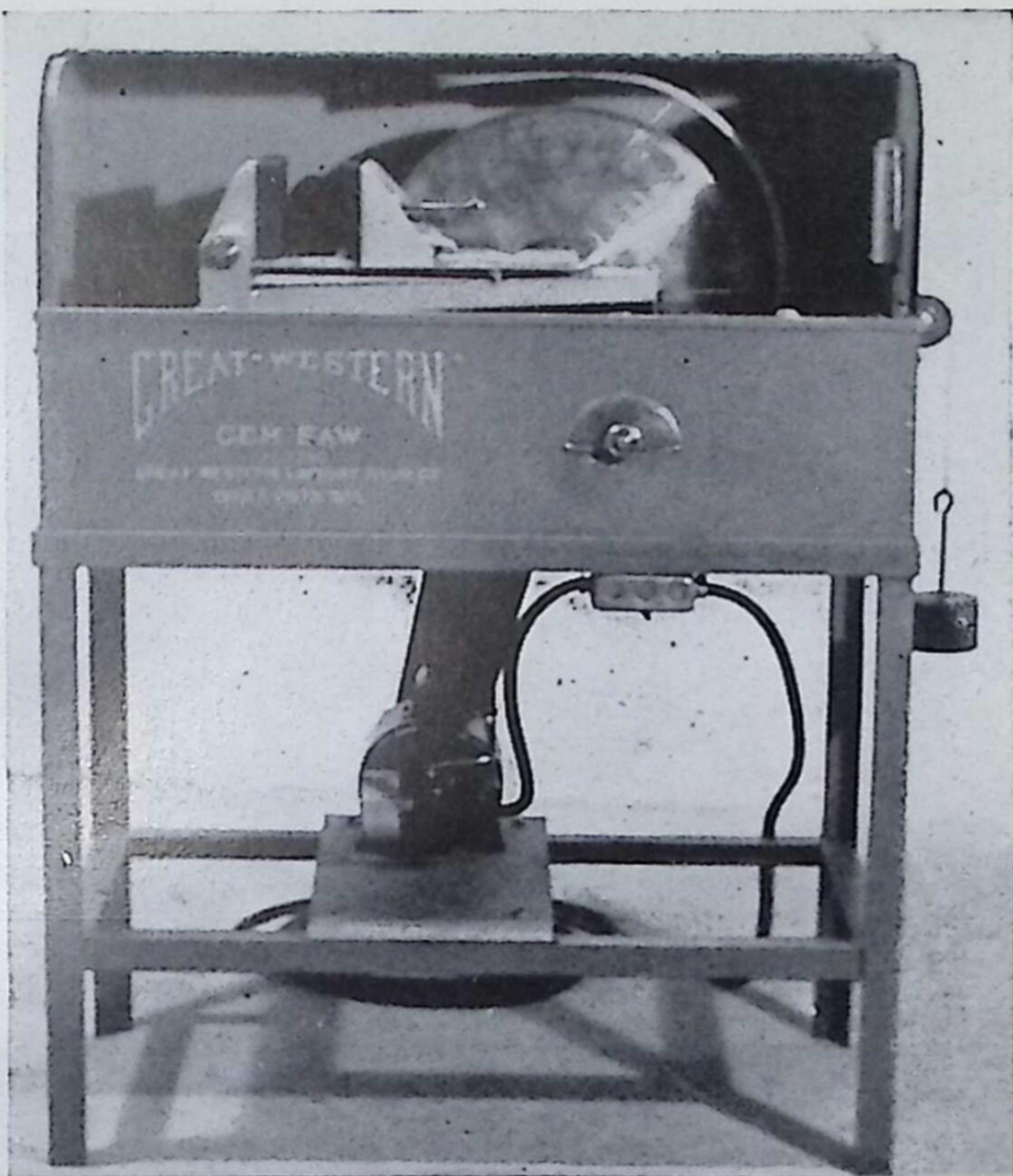
The charge for all this? Not a penny. All gem materials for all students is supplied free by the host. In two years the cost of the materials, supplies, heat, lights, (and 4,000 gallons of coffee) will run into thousands of dollars. When a man is so supremely unselfish as this I ponder what is in back of it all and I think I found the answer.

Kipp is a great booster for the "rich Mexican" (not the "poor Mexican"). He has spent much time there; not in the lobbies of the swank hotels but with the Mexican people whose creed is "manana." "Once when I was fishing I put into a Mexican village for food but there was no food," he said. "The supply boat will be here tomorrow," they said. "You eat with us tonight." He had to avail himself of their invitation and he watched while the mother in the family reached over to the plate of the youngest, cut half of the portion away that the child had not touched and gave it to Kipp. "I found out later that that was all they had," said Kipp. He continued, "I asked them why they didn't get some fish, for we were in the midst of the greatest



*Lapidary class at the sanders and polishers. Note the cabinet and lighting arrangement.*

## SOMETHING NEW IN DIAMOND SAWS



### GREAT WESTERN DIAMOND SAW

Rigid frame holding arbor and ways in perfect alignment.

**Sealed** oilite bearings with 1" arbor shaft. Sealed bearings are under carriage, eliminating friction on ways.

Takes either a 16" or 18" blade.

Vise opening 8" with 4" cross feed.

Dial adjustment outside of box for adjusting hydraulically-controlled feed. No chance of over-running saw.

Carefree operation, just turn on switch; no attention necessary. The machine automatically takes care of the whole operation.

This machine was designed and built to get the maximum amount of cutting from the saw blade.

With its precision alignment and hydraulically controlled feed, it makes cuts that require the minimum time in lapping.

All parts are completely enclosed. Floor space 34" by 18".

Shipping weight 275#, without stand 250#.

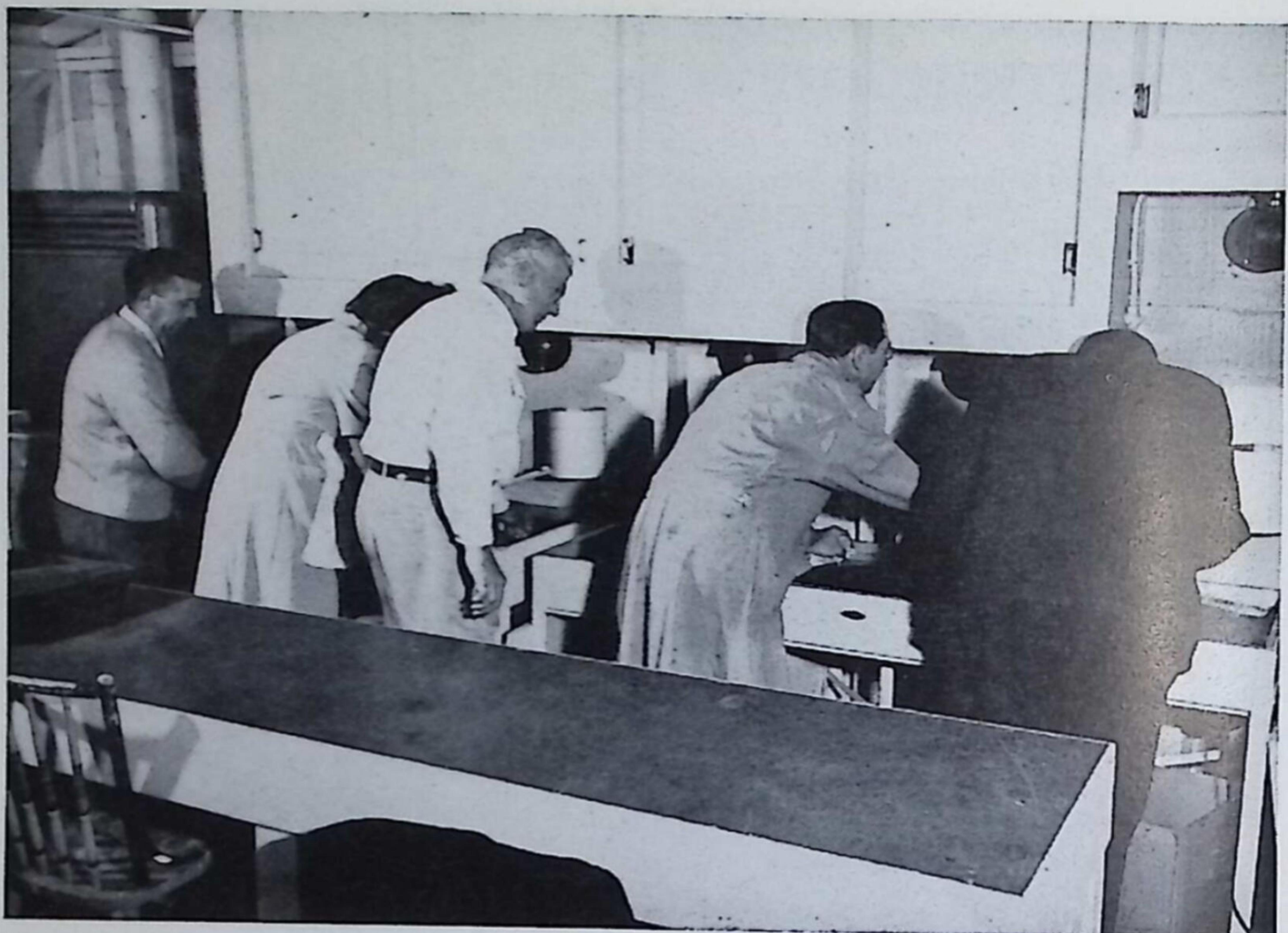
Price \$195.00 with stand and belt guard (without motor).

Price \$175.00 without stand. Crating charge \$4.00 extra.

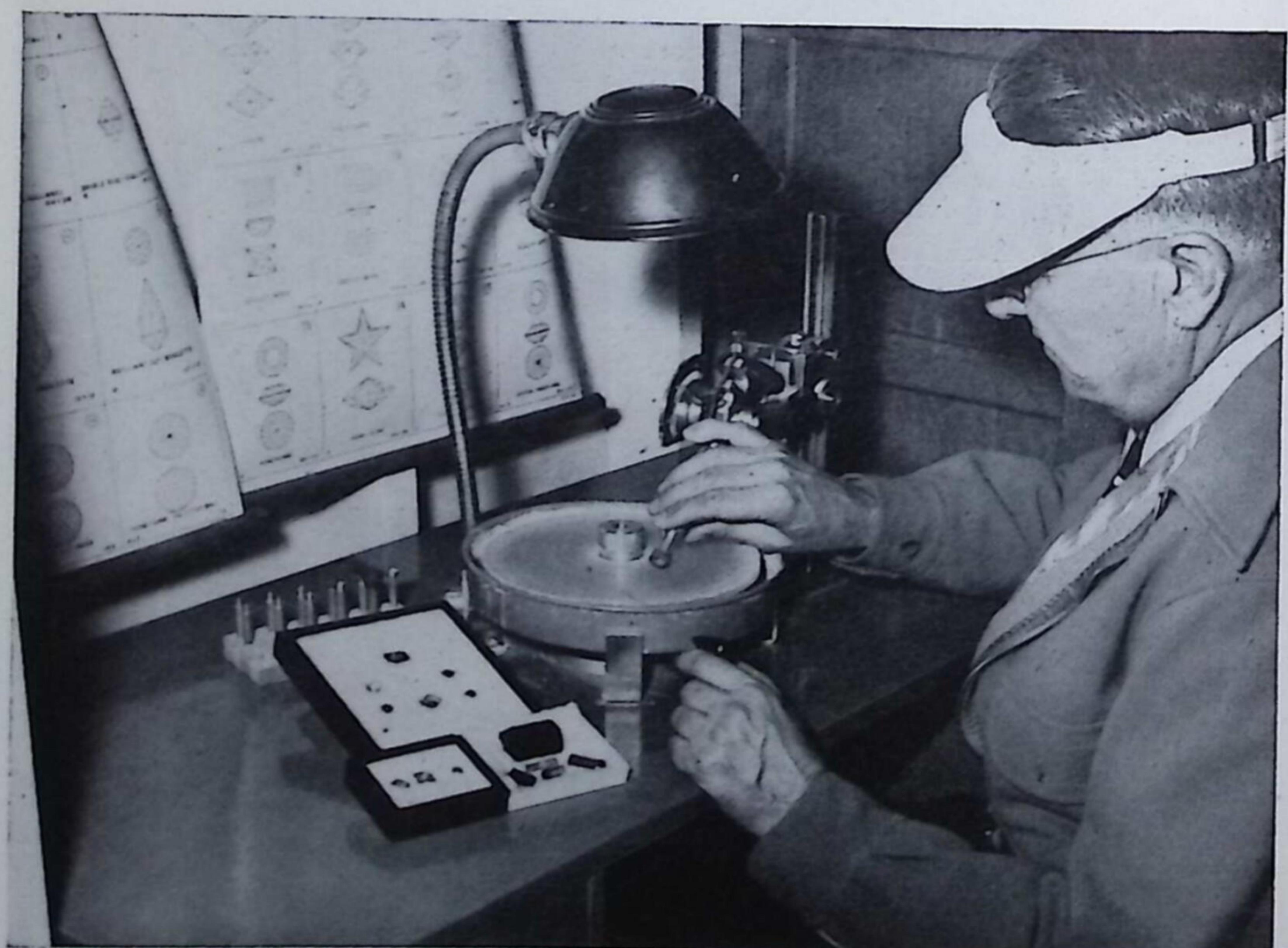
16" diamond saw blade is included in above prices.

F.O.B. San Diego, Calif. Purchasers in California add 2 1/2% sales tax.

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



*Lapidary group at the line of Covington laps.*



*Kipp faceting at his M.D.R. Master outfit. Note Grant Waite's charts on the wall.*

fishing ground in the world. But they wouldn't fish if the "supply boat was coming tomorrow." They had been expecting the supply boat every day for months. They asked me where I was from and I told them San Diego. They never heard of the place. 'Was it far,' they asked? I told them it was about 1500 miles but they didn't know what that meant. They wanted to know how long it would take to travel from there on a donkey and I told them it would take 30 days at least. That signified something to them. 'But why was I so far away,' they wanted to know? 'I was on a vacation—I was resting,' I told them. They looked at me in wonderment and said 'Can't you rest in your own village?' Well—I'm going to rest more in my own village hereafter and try to be as happy and content as those simple, but "rich" people. I've had more fun in the last year than I ever had in my whole life and my fun is just beginning."

Yes, Kipp's Shop is a wonderful place. But more important—Kipp's Shop is a useful place for it is bringing happiness to so many "in his own village."

## NEVADA ROUGH TURQUOISE \$25.00 lb.

Turquoise and Petrified Wood Cabochons for Sale

Send us your stones for mounting in Genuine  
Indian Handmade Sterling Silver

Rings, \$1.50 up, Bracelets, \$2.50 up, etc.

Sterling Silver 18" Neck Chains, \$4.50 doz.

## WHITE EAGLE TRADING POST

Dept. L, 517 West Central

Albuquerque, New Mexico

WHOLESALE AND RETAIL

### PERFECTION IN FACET CUTTING

If you have been holding back your rough gem material because of the high cost of cutting,

#### DO NOT DELAY

Ask for our prices on wholesale faceting.

Send us one rough gem of faceting quality.

We will facet it at wholesale price to prove to you our ability and good will.

#### FACETED GEMS

We have all types of precious and semi precious gems in stock.

We cut our own gems, buying all faceting gem material direct from various foreign and native mines.

We pass this great saving on to you.

#### JEWELRY MANUFACTURING

We design any type of mounting in Gold, Platinum or Sterling silver, at the lowest prices possible.

Please denote quantity and type of material when asking for price list

#### W H O L E S A L E

#### R E T A I L

## THE STETSONS

2550 Ridgeway Drive

Phone G7-5371

National City, California

*Gem Cutting & Jewelry Manufacturing*

# ◆ A New Gem Material

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

It seems likely that amateur lapidaries can look forward to being able to have an outstanding *new* gem material to work with in the future. In many respects it is a dream material. It is relatively easy to cut and polish for it uses none of the special techniques that sapphire requires. It has a higher refractive index than diamond and greater dispersion than diamond. It has also greater bi-refringence than sphene.

At present however, it has only been experimentally synthesized in the laboratory and the makers request that inquiries be deferred until they are ready for commercial production. The new material, synthetic Rutile, was first drawn to the writer's attention by Dr. F. H. Pough of New York as a possible material for a high range gem refractometer. Linde Air Products Company most kindly furnished a boule for the purpose and the instrument is now under construction. The small end of the boule left over was cut into faceted stones. Three stones were cut weighing respectively—4.2 carat, 2.0 carat and 0.6 carat.

Despite the slightly oily appearance of these straw colored gems they out-do diamonds for fire. The dispersion is so tremendous that the cut stones appear to be a tangle of rainbows and have a slight similarity to a fine water opal. Words are inadequate to describe the material as such a gem has to be seen to be believed. Next to bright sunlight,

incandescent lighting seems to develop the rainbows best.

The angles and proportions of my cut may be of interest. The main back facets of the 4.2 carat stone were cut at  $106^\circ$  to their opposites and the main front facets at  $128^\circ$  to their opposites. This of course gives a thin stone of roughly 50% of the spread. Girdle facets were added to prevent chipping, a danger with such a thin stone.

These angles and proportions may not be the best that can be worked out. However a careful check was made for light lost through the back of the stone and it was found to be negligible for incident angles up to  $30^\circ$  to the normal to the table. An examination of the display on the back of a white screen, pierced for the incident light, was also very gratifying. The pattern was complex and evenly distributed and all the spots were spectrums, except the surface reflections from the crown facets. The display covered a solid angle of  $130^\circ$ .

The refractive indices (w 2.62, e 2.90) are above those of the diamond (2.417) and the dispersion is considerably greater than demantoid garnet. Birefringence of .28 exceeds that of calcite at .172. These properties make it scintillant beyond any other known material. The only bad feature about the gem is that it ranges between 6 and  $6\frac{1}{2}$  in hardness which makes it unsatisfactory for general use in jewelry.

## Lapidary School

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

Genuine Gem Stones for Sale  
Emerald - Ruby - Sapphire  
and all types of gems  
Inquire for prices

STEWART LAPIDARY  
INSTITUTE

565 Main Ave. Passaic, N. J.

JUST PUBLISHED . . .  
**STORY OF JADE**

By Herbert P. Whitlock, formerly Curator of the Morgan Gem Collection, Am. Museum of Natural History. This is the Master Work on JADE. For Library, for reference this book cannot be surpassed. Price \$10.00 postpaid.

**GEM CUTTING**

By J. Daniel Willems. Complete, accurate, step-by-step drawings and discussion of all processes, including a chapter on the "potato method" of facet cutting to eliminate beginners' faults. For either beginners or professional cutters. Clothbound, 224 pages . . . \$3.50.

KARL A. SAHLSTEN  
PLAISTOW 90 NEW HAMPSHIRE

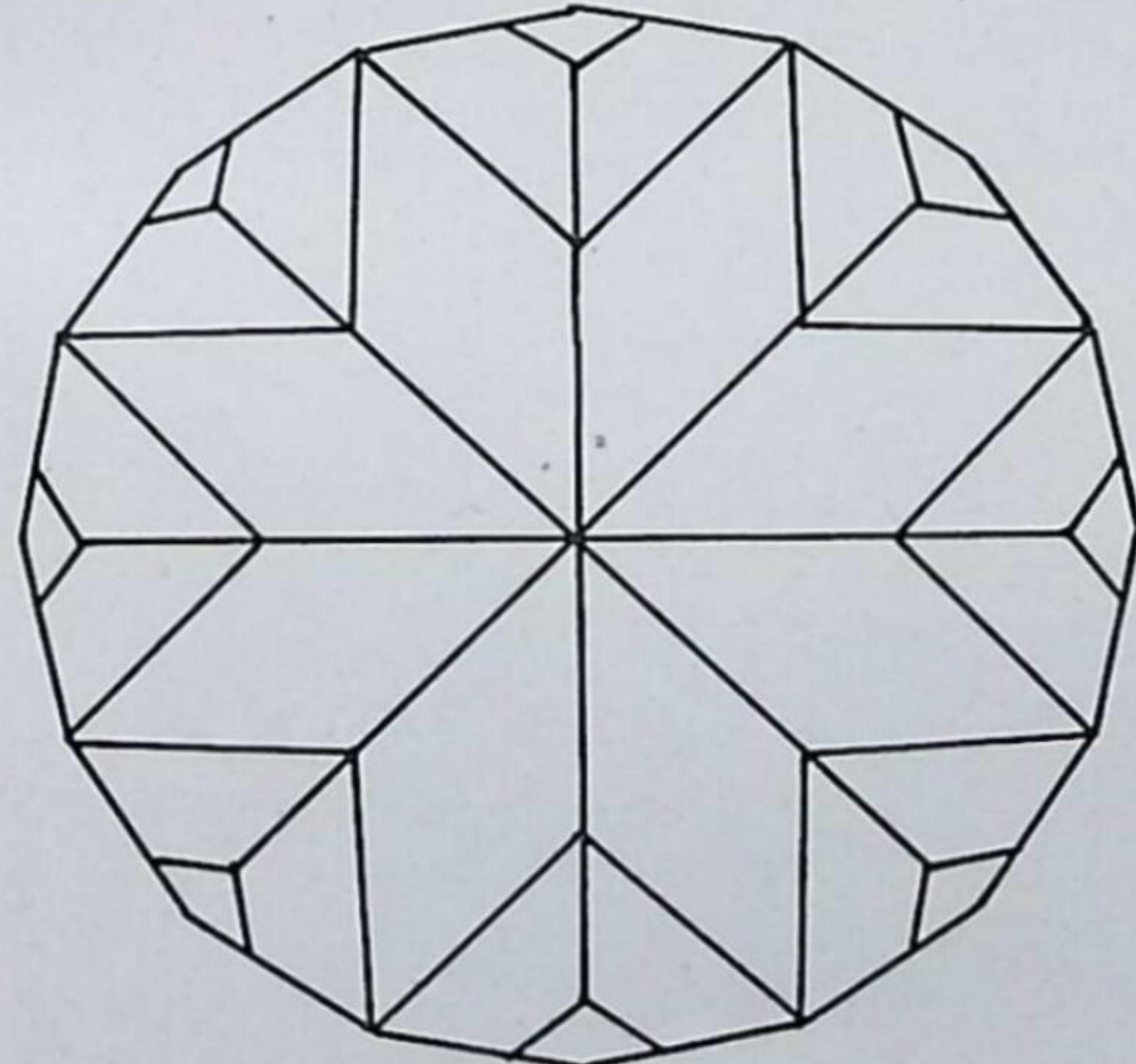
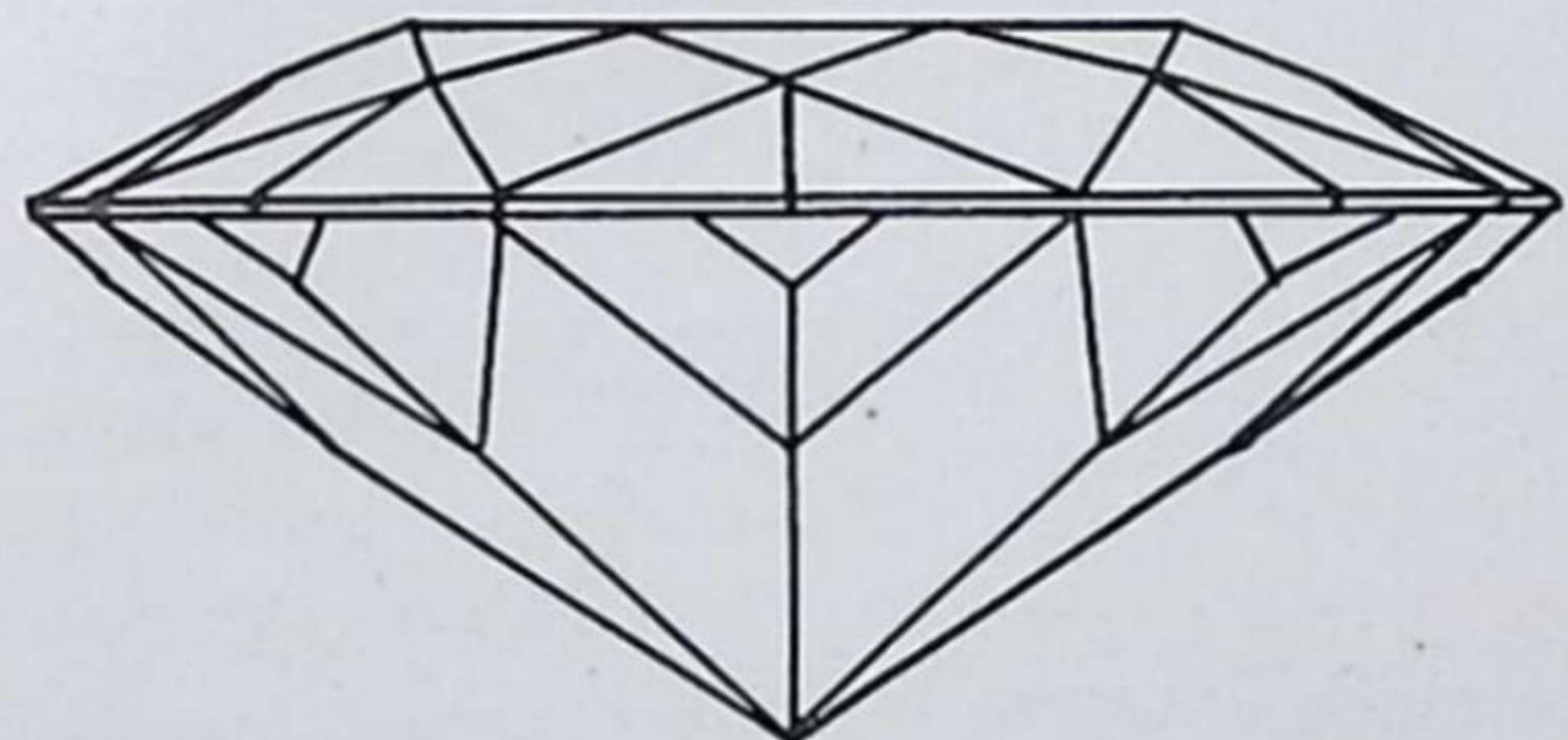
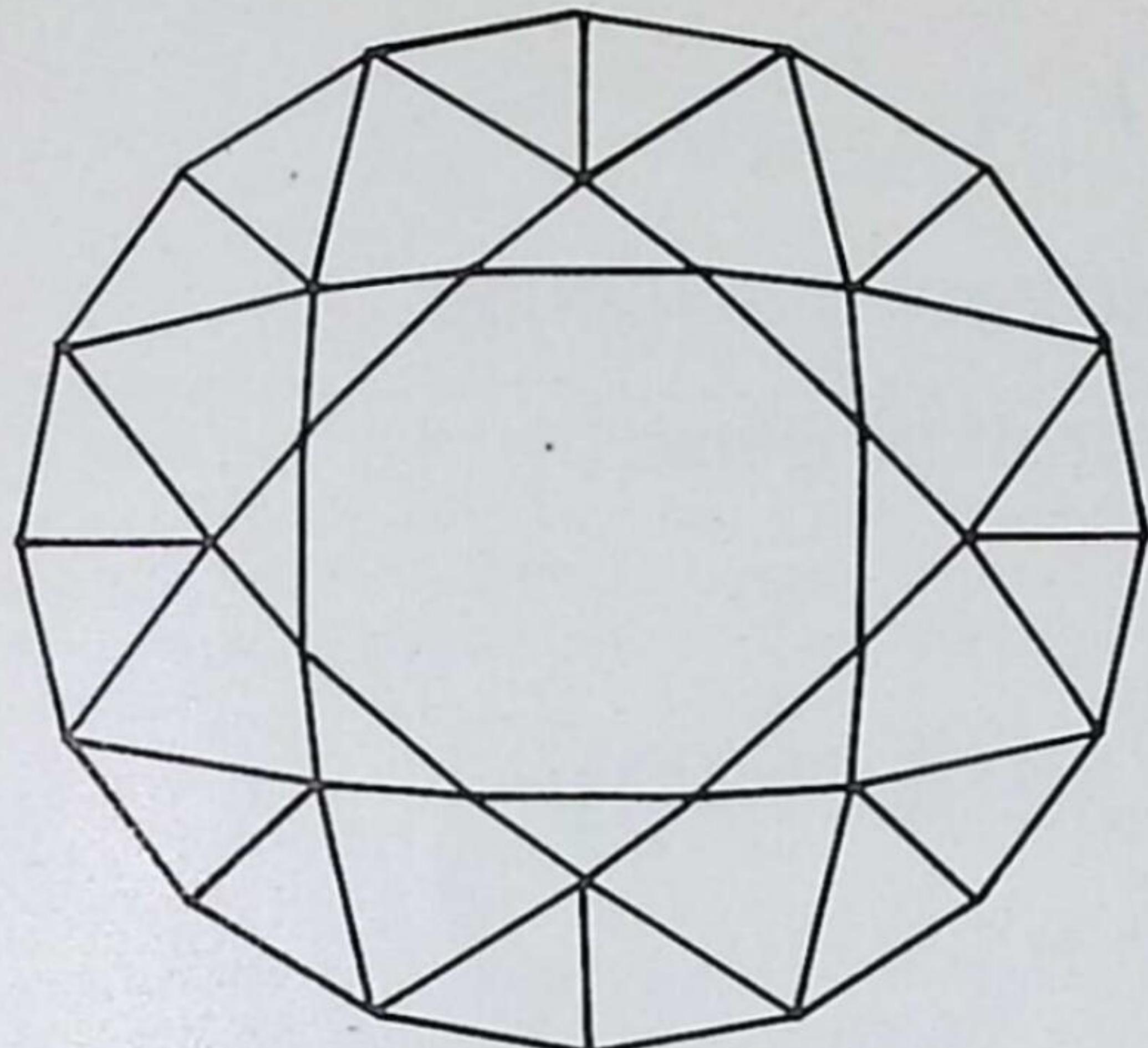


Diagram of the cut described on page 74.

**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.

Robert M. Shipley's  
*Dictionary  
 of  
 Gems  
 and  
 Gemology*



The most comprehensive glossary of gems in any language . . . over 4000 definitions of gems, gem minerals and gem species and varieties . . . synthetic and imitation gem materials . . . trade grades of gems . . . styles and materials of cutting . . . Biblical and historical gems . . . popular, scientific or trade terms . . . special emphasis on incorrect or misleading terms. Definitions of each gem mineral include chemical composition, crystallography, physical properties, source and pronunciation. Universally used by leading colleges and universities. An authoritative guide for the student . . . gemologist . . . jeweler. Second Edition . . . Cloth Bound . . . 250 pages . . . \$5.50.



*Gems  
 and  
 Gemology*

Scientific Quarterly of Gemological Institute of America. . . For those interested in recent gemological research and study. Each issue contains illustrated articles by leading authorities of international prominence . . . also 2 or more handsomely colored prints of more than thirty gemstones of importance and less well known ornamental stones . . . each print suitable for framing . . . International circulation . . . Yearly Subscription \$3.50 . . . Back Issues \$3.50 to \$5.00 . . . Single Issues \$1.00 each . . . Sample Copies Fifty Cents.

**GEMOLOGICAL INSTITUTE OF  
 AMERICA**

**541 South Alexandria Avenue  
 Los Angeles 5**

**A NON-PROFIT ENDOWED EDUCATIONAL  
 ORGANIZATION**

Founded in 1931

**BY JEWELERS . . . FOR JEWELERS**

The most recent accurate knowledge  
about the world of gems

## Popular Gemology

By RICHARD M. PEARL  
Assistant Professor of Geology,  
Colorado College

In this authoritative volume, the author discusses the scientific and industrial uses of gems, both natural and artificial. He presents up-to-date information about their locality and production, as well as the recent developments in commerce brought about by the war.

POPULAR GEMOLOGY is the only book on gems to include a separate chapter on *fluorescence*. It is also the only book on gems that has a special chapter on *quartz* and *other silica gems*.

### NEW CLASSIFICATION SYSTEM

Mr. Pearl has used the scientific system of classification introduced in the Seventh Edition of Dana's *System of Mineralogy*. Gems are classified according to the most appropriate style of cutting—facet, or cabochon—which depends on their inherent characteristics. Emphasis is placed on the mineral family, series, and species as the natural units.

Special attention has been paid to nomenclature to make certain that no technical word is employed in the wrong sense to simplify its use. Important scientific words are emphasized in italics.

### OVER 100 PHOTOGRAPHS AND DRAWINGS

1948                    316 pages                    \$4.00

For sale at the Lapidary Journal Booth at  
Denver and Long Beach

(Copies obtainable on approval)

**John Wiley & Sons, Inc.**  
440 Fourth Ave., New York 16, N. Y.

# About Our Cover

Among the earliest rings of antiquity were rings made to represent scarabs. They replaced the use of cylindrical seals because the seals on rings could be conveniently carried by public officials etc., of that time. One was presented to Joseph by Pharaoh. Jezebel used Ahab's seal upon letters which she wrote in his name and Darius sealed the lion's den with his signet after confining Daniel therein. Many references are made to these rings in the Bible and many of the rings bore scarab-like carvings.

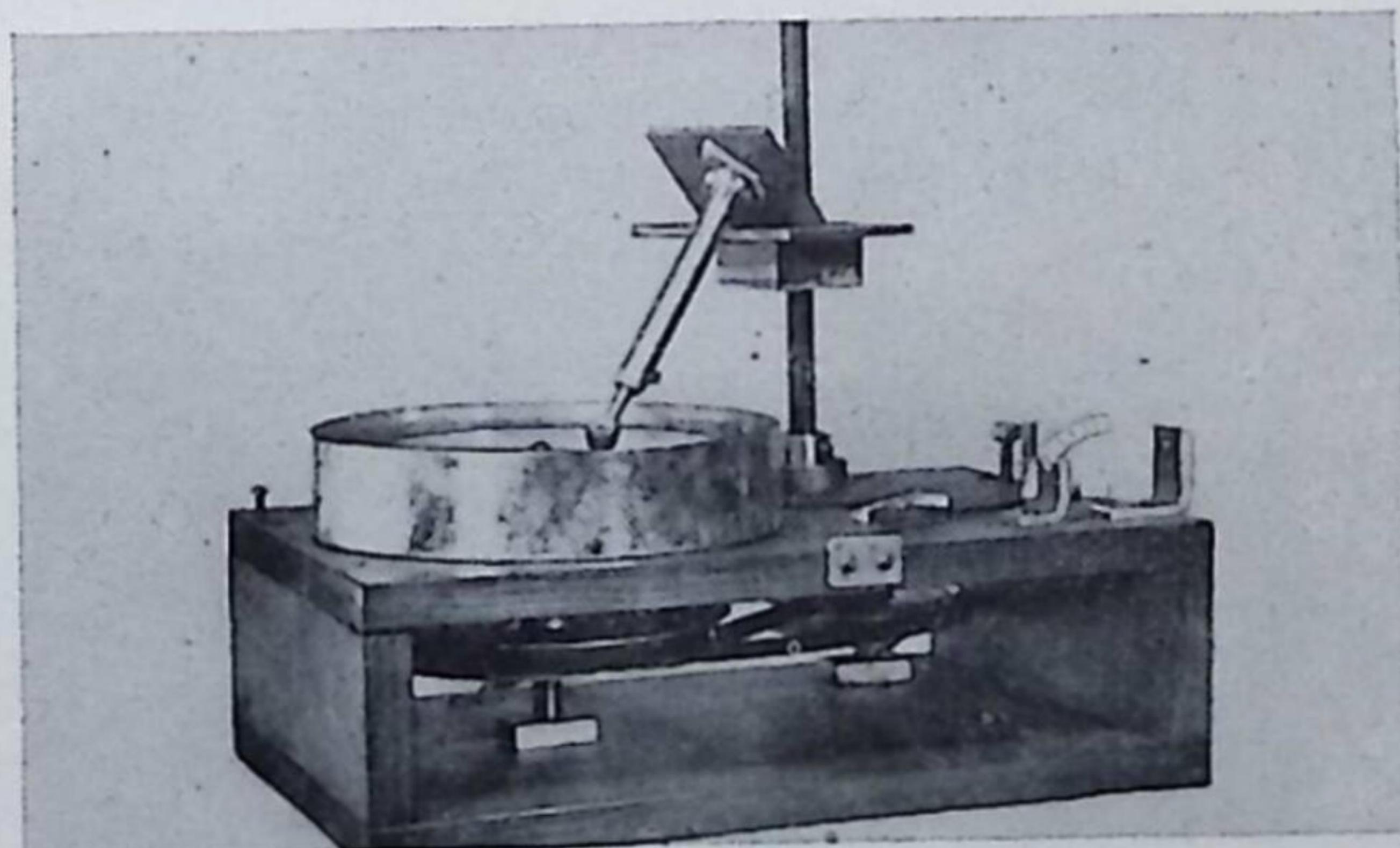
The *scarabaeus sacer* pictured on our cover is a small beetle found in the Nile valley. It laid its eggs in soft mud and rolled the mud into a hard pellet to protect the eggs until they hatched. This suggested birth, death and eternal life to the Egyptians and they thus used the scarab as a symbol. It was believed that if any one found a scarab upon its back and turned it over that they would thereby be freed of many sins.

People of wealth desired something better than a reproduction in baked clay so that the gemcutters of the time began carving scarabs in hard materials like amethyst and carnelian. These scarabs have been found with bodies known to have been buried more than 4000 years ago. As the Roman legions began conquering the world they obtained scarabs in booty and soon claims of miraculous powers were attributed to them all over the world. Scarabs continue to be popular in present day jewelry but it is an idea that few, if any, amateur lapidaries have worked on. The idea holds great artistic possibilities. The scarabs produced as described in his article on page 64 by William Pester, are faithful in detail and our artist's drawing on the cover presents the fine detail of line and form that should be incorporated in any attempt to carve them. By tracing the cover design the lapidary will have an accurate model.

## Introducing

*An Ancient Art Made Simple*

## NEW TYPE FACETING MACHINE



The  
**SIMPLEX**

**FOUR FACETS**  
with  
**ONE SETTING**

**Sold by J. C. FILER & SON, LOMA LINDA, CALIFORNIA**

Price includes two grinding laps—a 6" Lucite lap —two precision dop sticks—jig for setting stone on dop (better than V-blocks)—two V belts—Ready to Operate As Illustrated

Price \$50 (without motor) F.O.B. LOMA LINDA, CALIFORNIA

**MACHINE WILL BE DEMONSTRATED AT LONG BEACH CONVENTION**

Made by A. F. Combs, Redlands, Calif. — On Highway 99 — Midway between Redlands & Colton

# ◆ *What About Montana Agates?*

By HAROLD ODLE  
Rollins, Montana

Many letters come to me from rock hunters in regard to the agate situation here in Montana. I am sure there are many others who would like to inquire if they knew someone to write to. Therefore, I am offering some ideas and information to the many tourists who will be coming to Montana this summer.

Keep this in mind—Montana is a mighty big lot of country, and only a relatively small part has agate. In the part that does have agate only about half of it has the fine red ribbons so much in demand. The agates are found from a few miles west of Miles City to Billings, and south into Wyoming. The ribbon variety is nearly always a dirty brown. We call it "Hardin Brown" and we do not place a great deal of value on it as a rule. But—and this is a big BUT—some of the most valuable pictures ever found outdoors have come out of this same Hardin Brown; so don't pass it all up as junk.

As you hunt the gravels closer to Miles City you will find some of the red ribbons in some washes. There is some of the brown agate anywhere there is agate, but the farther down the river you get, the less brown you will find. The clear blue agate with moss is good anywhere you are lucky enough to find it; probably better in the "brown agate" washes.

Geologically, the Yellowstone is the distributing agent and hasn't much else to do about it. Agate was originally strung along the Jurassic beaches when the Gulf of Mexico reached that far north. The origin is still in doubt and the doctors disagree. There is some evidence to support a theory that they actually haven't traveled very far from where they formed. Every element known to be required for the formation of agate is found in the groundwater wherever the gem type of agate has been found. A friend who was working with me near Glendive two years ago actually found a fair sized agate with a slice of lignite coal intergrown with it. The

piece showed beyond a shadow of a doubt that they had been formed in conjunction, as the agate showed wood grain on the contact.

The gravel beds may be anywhere from a few inches to over a hundred feet thick and have agate sparsely distributed with an occasional zone of concentration. The zones are due to water action, are difficult to define or follow, and often impossible to see. Along the river bars the head and tail of the bars is best. The agate is just a little heavier than the other gravel and hangs back when a bar is cutting and for the same reason is dropped sooner at the lower end.

Many of the gem type agates were of very large size when they started out, but freezing, ice jams, wave battering and all the other wear and tear have broken most of the larger ones into sections. It is these sections that are the finer type of gem material. The general type was a watermelon shape with a rim of solid agate on the outside and a crystal center.

But there is more than one variety of agate along the river. I have often claimed that there is every kind of agate known to science there, with a few extras thrown in for good measure. I have seen plume agate equal to the best; green moss that doesn't pit; red moss, brown moss, black dendrite, red dendrite, iris, sagenite; ribbons in almost every imaginable color, clear white and jet black solid ones. I have specimens that might have been from Lake Superior or from Brazil; Fairburn, South Dakota or Sweetwater. Nearly all are found in combination with the moss agate.

Besides the gem type there is a small knotty "ornery" looking kind that sometimes takes a notion to be fairly good size that is *never* gem quality. Hunters new to the game often pick up sacks full of this sort and a grainy large sort that fools the best rock-hound. No one who

knows the game picks the little junk, so that is still plentiful. Don't confuse this with chips of really good gem agate which are not plentiful.

There are untold tons of agate, and good ones too, in the agate fields, but the last few years they have been hunted so hard by so many hunters that easy picking is a thing of the past. We still get plenty to keep our business going but we also pay plenty of hard cash to get them. Our agate men are fellows who live where they can take their holidays and go where there are agates in dry washes and in the river when it is low enough. They know when and where to go; dry washes after a cloudburst being tops in production, but sometimes years apart. We buy all they have that is worth anything at a contract price. We then sort out the ones that are really good, and often throw out a third of a

shipment in the sorting.

Unless you have had a chance to handle and sort tons of selected agate, you are not very likely to see much of the highest grades of Montana agate. We have slices on hand with close to \$100 worth of sets in them. Rough agates of that quality aren't selling at a dollar a pound, nor are agates that will cut slices worth \$5.00 each. Many customers seem to expect such bargains in every shipment from the dealers.

Come to the Yellowstone to hunt agate, but don't be disappointed if you don't find a bushel of picture agates. Thousands of hunters every season find no more than a bushel all together. Even fairly good agates are not common or plentiful. You have to do a lot of walking for every pound of good agate you find, but doggone it, it sure is fun, so come on to Montana and try your luck!

#### **SAN DIEGO AND FOREIGN CUTTING MATERIALS**

I HAVE A LARGE STOCK  
Send for free list

**ROY PLUMMER**

5068 Brighton Ave. San Diego 7, Calif.

#### **JEWELRY MAKING**

Anybody can make fine Jewelry with our Findings and ready to use Mountings  
*Very low prices. Large catalog—10c.*

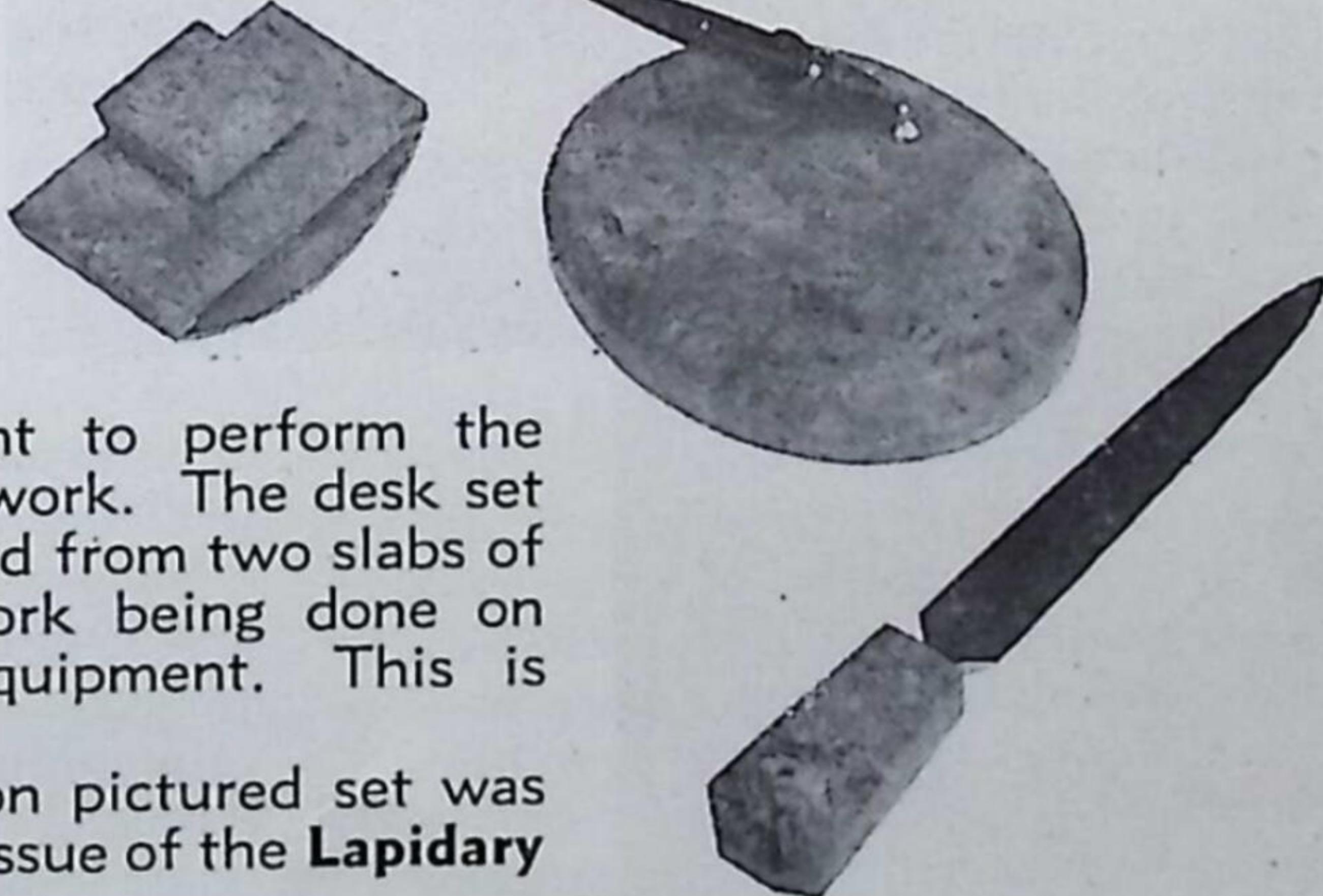
**George Sassen**

154 Nassau St. New York City 7, N. Y.

#### **SPERISEN "Jr."**

Model Lapidary Machine provides you with the least amount of equipment to perform the maximum variety of work. The desk set illustrated was finished from two slabs of jasper, all of the work being done on Sperisen Lapidary equipment. This is No. 2 of a series.

Sawing operation on pictured set was illustrated in the last issue of the **Lapidary Journal**.



*Immediate delivery — Illustrated circular on request*



**SPECIAL OFFERING**—Gold quartz for cutting. Translucent white quartz with dense concentration of gold. From the Philippines. Excellent for polished specimens, charms and cabochons. Price \$1.00 per gram. Slabs and small specimens \$1.00 to \$10.00 each.

**FRANCIS J. SPERISEN**  
LAPIDARY

166 GEARY STREET

SAN FRANCISCO 8, CALIFORNIA

# *Simplified Jewelry Casting for the Beginner*

By THEODORE ITTNER

(Proprietor of THEODORE'S)

Box 292, Glendale, Calif.

It has always been the writer's considered opinion that there is no mystery about the art of casting as applied to the medium of non-ferrous metals such as Sterling Silver or Karat Gold. The books all tell you that silver melts at "so-and-so" degrees and gold's melting point is "such-and-such." That information is true—technically—and in theory—but who cares? If you are planning to melt either of these metals you won't find it necessary to apply a thermometer or pyrometer to tell you when it is melted. Casting then, for our purposes, is NOT a mystery. What is it? It is simply the application of the fundamental "know-how", along with an adequate sprinkling of common sense, and the addition of a collection of a few simple materials and make-shift gadgets such as may be found or fabricated in the average home or hobby shop.

The refinements of the art however are many and varied. In other words the beginner will run into snags and problems in experimentation which will require thoughtful consideration and effort to overcome. To those of you who try it there is no doubt that you will have failures as well as the thrills of creating a perfect cast. Be assured that even professional technicians have occasional failures. Many casting craftsmen have developed by trial and error many unique and jealously guarded techniques of their own which are seldom passed on to their fellow workers.

Let us consider a simple method of casting which can be utilized in any home and largely with such equipment as can be easily fabricated from odds and ends. We will not discuss the intricacies of dies, moulds, duplication, centrifuges, or production methods used in professional shops.

## **MATERIALS AND TOOLS NEEDED FOR SIMPLE JEWELRY CASTING**

- 1 Brick (preferably firebrick). Asbestos pads will do.
- 1 Pottery Cup. Shallow and handleless is best.
- 1 No. 2 tomato can. Empty.
- 1 Small can. Tomato puree size is good. Both ends removed.
- 1 Kitchen stove or gas burner.
- 1 Kitchen sink complete with water faucet.
- 1 Small mixing bowl.
- 1 Pair of tongs or a tool for lifting hot flasks.
- 1 Tablespoon.
- 1 Table or work bench which can be messed up temporarily with impunity.

The above materials will be recognized as available to all, while the following list can be obtained at some good hobby shop.

- A small quantity of Dental Plate Wax and Inlay wax. Kitchen paraffin could be used although it is not as good.
- A quantity of Dental Investment Plaster. Ordinary Plaster of Paris can be substituted as a poor second.
- A quantity of Gold or Silver as needed.
- A quantity of shredded asbestos. Newsprint pulp with water can be used in a pinch.
- A small quantity of powdered borax. The regular kitchen variety is excellent.
- A quantity of child's modeling clay or a substitute.
- A torch or flame capable of rendering Silver or Gold to a state of flux or a molten condition.
- A healthy quantity of personal care and common sense application of the following steps:—

# THE PRIDAY RANCH IS CLOSED THIS SUMMER

But why worry? I have *fine* Priday material at *low* prices, and you *know* what you're getting. Save your clothes—your car—your time—your back and your money by buying from the following list.

## ALL OREGON MATERIALS

<b>Moss Agate</b> , square inch in slabs.....	.25
<b>Moss Agate</b> , 1 pound rough .....	1.00-2.00
<b>Silver Sheen Obsidian</b> , square inch in slabs.....	.25
<b>Silver Sheen Obsidian</b> , 1 pound rough.....	.75
<b>Gold Sheen Obsidian</b> , square inch in slabs .....	.25
<b>Gold Sheen Obsidian</b> , 1 pound rough .....	.75
<b>Black or Black &amp; Red Obsidian</b> , square inch in slabs.....	.20
<b>Black or Black &amp; Red Obsidian</b> , 1 pound rough .....	.50
<b>Agate &amp; Newport Beach, Beach Run Agate &amp; Jasper</b> , per pound	.50
<b>Plume Nodules</b> (Plume Guaranteed), Priday's Ranch, <b>2.50 ea. &amp; up</b>	
<b>New Bed Nodules</b> , 3 pounds, Priday's Ranch.....	1.00
<b>Blue Bed Nodules</b> , 1 pound .50—10 pounds.....	4.00
<b>Nodules From Bed Rock Plume Bed</b> (Plume Not Guaranteed), 1 pound 1.00—6 pounds.....	5.00
<b>Red Moss Nodules From Plume Bed</b> , 1 pound 2.00—3 pounds 5.00	
<b>Polka Dot Agate Rock</b> , 1 pound (Priday's Ranch) .....	.75
<b>Nodules</b> (Cut in Half), Polished (both halves) .....	.50 each & up
<b>Nodules</b> (Cut in Half), Not Polished .....	.25 each & up
<b>Priday's Ranch Plume</b> , Per Slab	5.00-7.50-8.50-10.00-12.50-15.00

Will make fine assortments from \$5 to \$25 each

**Closing out all my Lapidary Supplies and Blank Jewelry mounts**

Send Postage. All Postage not used returned. All Prices F.O.B. Portland, Oregon.

25% Deposit Required on All C.O.D. Orders

**CLARENCE A. AMES**

3638 S.E. OLSEN

PORLAND 2, OREGON

Phone TABor 3093

Step No. 1—The first thing to prepare is the wax model. For this you will need to have some idea of the form of the project you have in mind for casting. For illustrative purposes we will assume that you have decided on a simple ring for your first project.

The wax can be worked in any or a combination of several ways. a.—By modeling in a warm and softened condition. b.—Carved with knives and other assorted hand tools such as files, scrapers, etc. c.—Built-up layer by layer and drop by drop with a heated spatula or spoonlike tool.

The only limit you will meet in this operation is your individual ability to carve or otherwise work up your model in the medium of the wax. See Fig. No. 1 for sample of finished model.

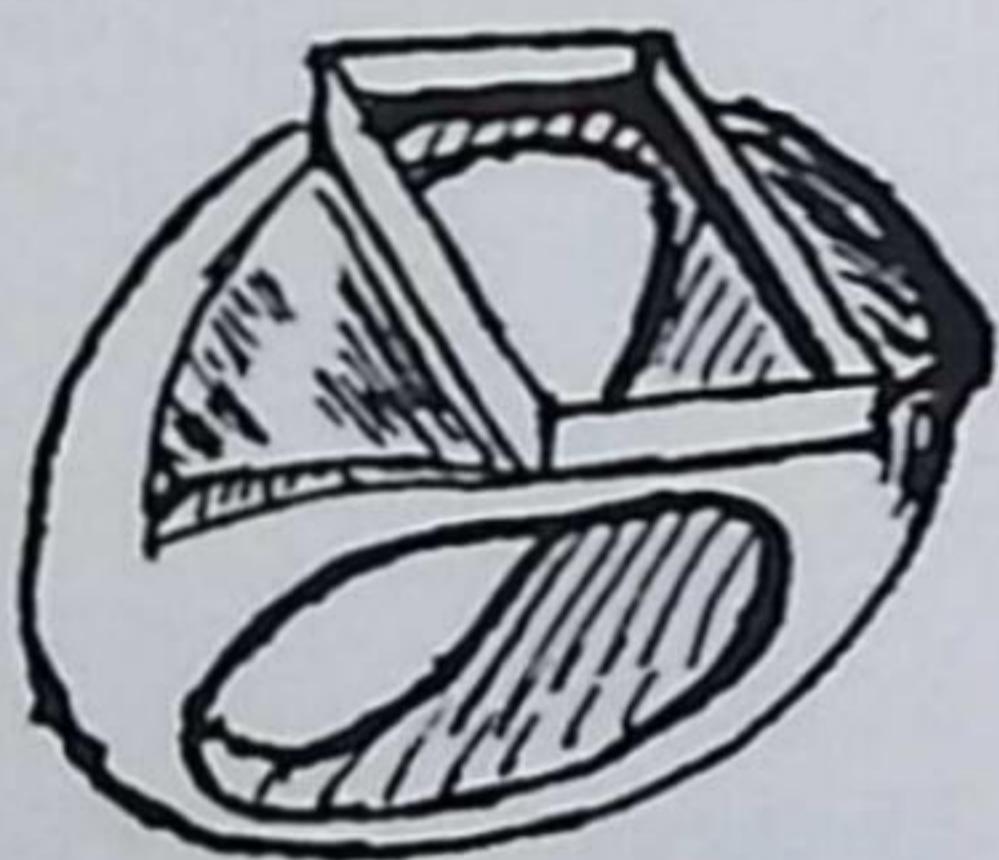


Fig. No. 1.

When the wax model is completed to your satisfaction it is then mounted on a SPRUE, which may be made of a medium sized nail or other similar device. This should be attached to the wax model by a process of warming it enough to pierce a heavy portion of the model as seen in Fig. No. 2.



Fig. No. 2.

Step No. 2—Fabricate from your modeling clay (or substitute) a base with a domed center which the small open-ended can will just fit over. (See Fig. No. 3.) Now firmly place the end of the sprue in the center of the dome of clay so that it will not tip over or come out when the plaster is poured. (See Fig. No. 3.) The small can is now placed over the model and should extend at least  $\frac{1}{2}$ " above the highest part of the model.

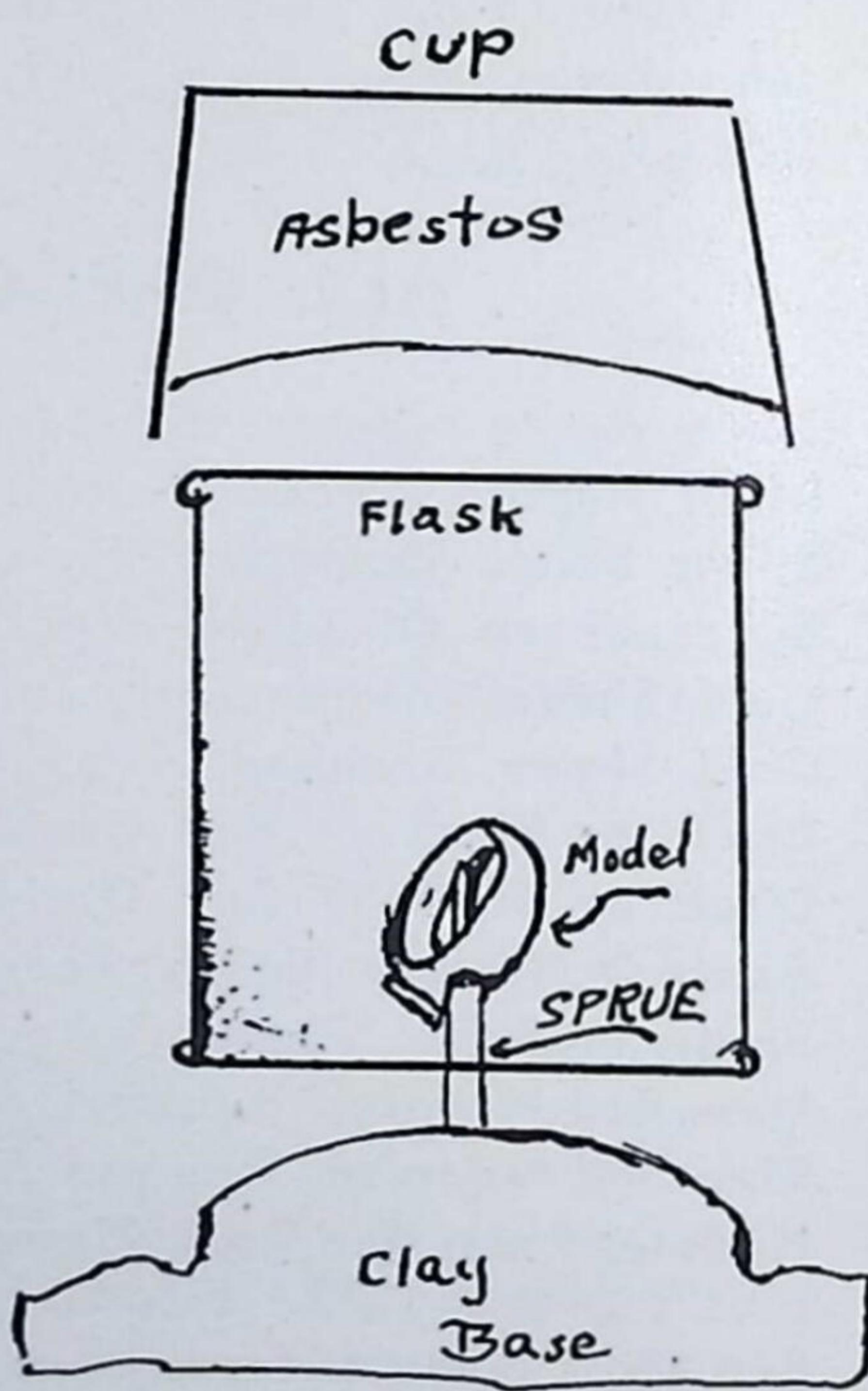


Fig. No. 3.

Step No. 3—Prepare a sufficient quantity of investment plaster by sifting it into a small quantity of water in the mixing bowl. Stir it quietly and smoothly, using every precaution to eliminate the addition of air bubbles to the mixture. When ready it should be the consistency of rich cream. A small quantity can be used to paint the model with a coating, using a small brush. While still wet replace the can or flask and fill to the top with the rest of the plaster. Set it aside to dry and harden. When it has hardened enough remove the flask from the clay and remove the sprue or nail with a twisting motion. You will find that this leaves a small hole or gate in the center of the

# Wildberg's Improved Rapid-Flo Flux Makes Difficult Soldering Operations Easier for All

WE RECOMMEND THAT RAPID-FLO FLUX BE USED WHEN SOLDERING GOLD — SILVER — PLATINUM

AND ALL FERROUS AND NON-FERROUS METALS (except aluminum)

Rapid-Flo Flux Insures Better and Faster Soldering Because:

1. It is active below melting points of WILDBERG BROS. SOLDERS, thus absorbing all oxides.
2. Promotes flow of solder, making stronger bond.
3. Permits visual inspection without removing FLUX.

4. Can be removed by warm water.
5. Meets highest requirements and Government Specifications.

Price: 1/2 lb. jars \$1.00 Each  
1 lb. jars \$1.50 Each

## WE ALSO MANUFACTURE AND SUPPLY THESE VARIED MATERIALS

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 Findings: Chain—Earwires—Tubing—Hollow Balls, Etc.

Nickel Silver Findings: Pinstems, Joints, Safety Catches

Silver Solder Sheet and Wire: Silver Solder Flux

Karat Gold Sheet, Wire, Solder and Findings

*Out Catalog Sent Free on Request*

## WILDBERG BROS. SMELTING & REFINING CO.

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

SINCE 1907  
Plant and Smelter  
South San Francisco, Calif.

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

## NEW 1948 CATALOG of LAPIDARY SUPPLIES AND EQUIPMENT

The most complete line of lapidary equipment  
ever offered by any manufacturer

Twenty-six (26) different types of lapidary  
machines for your use! !!!!

**SEND FOR YOUR FREE COPY AT ONCE**  
**CARBORUNDUM DIAMOND SAW BLADES**

6"—\$5.52 each	10"—\$10.44 each	14"—\$17.76 each
8"— 7.98 "	12"— 15.30 "	16"— 20.22 "

Specify Arbor Size when ordering  
California purchasers add sales tax

## HIGHLAND PARK LAPIDARY SUPPLY CO.

1009 Mission Street PYramid 1-2022 South Pasadena, Calif.

**MANUFACTURERS OF**  
**PRECISION**  
**LAPIDARY EQUIPMENT**

depression or cup in the plaster. Step No. 4—You are now ready for the "take-out." Take the large tomato can and punch a small hole or holes in the closed end to allow the escape of gases. Place the inverted flask or mould over the gas burner and adjust the flame to one third capacity. Cover with the larger can. The melting wax will run out and become consumed almost completely. Continue this heating for about twenty minutes, or until the wax is gone, leaving the matrice or shape of the model empty within the plaster, now raise the gas flame to full capacity for the balance of a three hour period.

Step No. 5—While the bake-out is progressing prepare for the cast by placing your brick or asbestos block in a solid position; low enough so that you can comfortably exert a good strong, quick pressure on the pottery cup which will be inverted over the hot flask at the critical moment. The cup should be filled with the asbestos fiber, which should be evenly wet but not dripping with water. Wet pulp newsprint can be used if asbestos is not available. Get your torch in a handy position and prepare a quantity of metal, (Gold or Silver as needed) with at least half as much more than you will actually need for the model. Have your borax close at hand and open.

Step No. 6—When the flask has been baked out thoroughly remove the tomato can with suitable tongs and grasp the hot mould with tongs, turning it upright, or with the cup up. Place it

in a steady position on the brick and put the necessary metal in the depression. Sprinkle lightly with powdered borax. In melting this will collect any impurities, or slag, and extract it from the metal allowing the metal to flow easily when in a molten condition. Apply the flame of the torch to your melt until the metal is in a white hot state of liquid which will quiver when tapping the side of the flask lightly. When the metal and borax has a roily appearance, it's well heated and in a state of flux, grasp the inverted cupful of moist asbestos and with smooth co-ordination remove the flame and with firm pressure clap it over the hot metal. This operation creates a pressure of hot live steam which in turn forces the molten metal to pass through the sprue hole, or gate, and fill the matrice completely and with metal to spare. This action should be instantaneous. Allow a few seconds cooling and use the tongs to plunge the flask in water to quench it and disintegrate the plaster. Some plasters do not break down in this operation and the model must be dug out when cooled enough. From this point on, if you have achieved a good cast, all that is necessary is the finishing of the rough casting by filing, buffing and polishing. The sprue and button are sawed off and there you have it.

(Editor's Note—Should there be enough interest in overcoming such problems as you might meet in this experiment, or in any jewelry problem, we will include them in our regular "Answers to Inquiries" section.)



#### BLANK JEWELRY MOUNTINGS

Of All Kinds

Rings, Earrings, Brooches

Pendants, Tie Bars, Cuff Links, Etc.

Pendant pictured is Sterling Silver with 10k Solid Gold floral appliques. — \$5.75 each (plus tax)

*Send for Literature and Prices  
Wholesale and Retail*

### THEODORE'S

*Jewelers to the Craftsman*

GLENDALE, CALIF.

## NEW CATALOG

(Second Edition)

## LAPIDARY & JEWELERS SUPPLIES

40 Pages

Fully Illustrated

THE MOST COMPLETE CATALOG OF ITS KIND EVER PUBLISHED

Send 20c for your copy today.

★ ★ ★

### RING CASTING SUPPLIES

Plate Wax, 1 lb. box.....	\$1.00
Sticky Wax, box (18 sticks).....	1.00
Inlay Wax, box (12 sticks).....	1.50
Investment Plaster, 2 lbs.....	1.00
Investment Spider.....	.40

Catalog sent FREE with orders of any of the above.

★ ★ ★

**SPECIAL!!!! 1/3 H.P. MOTORS \$15 EACH plus postage on 22 lbs.**

★ ★ ★

### 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.

## *Pioneer* LAPIDARY AND SILVERSMITH SCHOOL

**Approved for veteran training**

In the foothills of the Rockies on  
Highway 87. — 50 miles north of Denver

Visit this School

### **HANDMADE JEWELRY ONLY**

A full-time 8-month course of intensive instruction  
Field trips, camping, lectures

SEE US AT THE

### **NATIONAL CONVENTION OF THE AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES**

June 13 - 16

### **PIONEER LAPIDARY SCHOOL**

M. J. Stickles, Owner, Director  
Loveland, Colorado

## DONAL HORD RECEIVES ACADEMY AWARD

Donal Hord, sculptor of THUNDER, the jade statue on the cover of our January Jade issue, journeyed from San Diego to New York to receive the award of the American Academy of Arts & Letters on May 21st in a notable ceremony. The award is given every five years for sculpture and consists of a gold medal and \$1,000 in cash. Mr. Hord was given the award for his noted work over the last five years in hard materials and not for THUNDER specifically. A lesser achievement is Hord's monstrous work in diorite of THE INDIAN OF THE COLORADO. This piece weighs several tons.

In a recent interview by the Editor, Mr. Hord said, "after THUNDER appeared in the LAPIDARY JOURNAL I became dissatisfied with it. While I had spent a whole year on it, with my assistant Homer Dana, I went to work and spent another two months on it, trimming here and there. I am far more satisfied with it now and I believe I have improved its appearance by 50%. If I don't sell THUNDER in New York I shall be happy to exhibit it at the Los Angeles Lapidary Society's gem show and the California Federation of Mineralogical Societies convention at Long Beach in July. That is contingent upon its being back on the West Coast at that time which is highly probable." Our New York readers should hurry to the Academy and see THUNDER as it should be on exhibit there just about the time this issue reaches you.

### BLACK ONYX BLANKS

*Unpolished*

Suitable for making 16x12 and 14x12 stones.

25c each or \$2.50 dozen

SPECIAL ORDER CUTTING  
REASONABLE PRICES

Orders handled promptly

### JUCHEM BROTHERS

315 West 5th Street  
Los Angeles 13 California

## Ask Gem Arts for

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

*Everything for the Amateur Lapidary*

*Gem Arts*

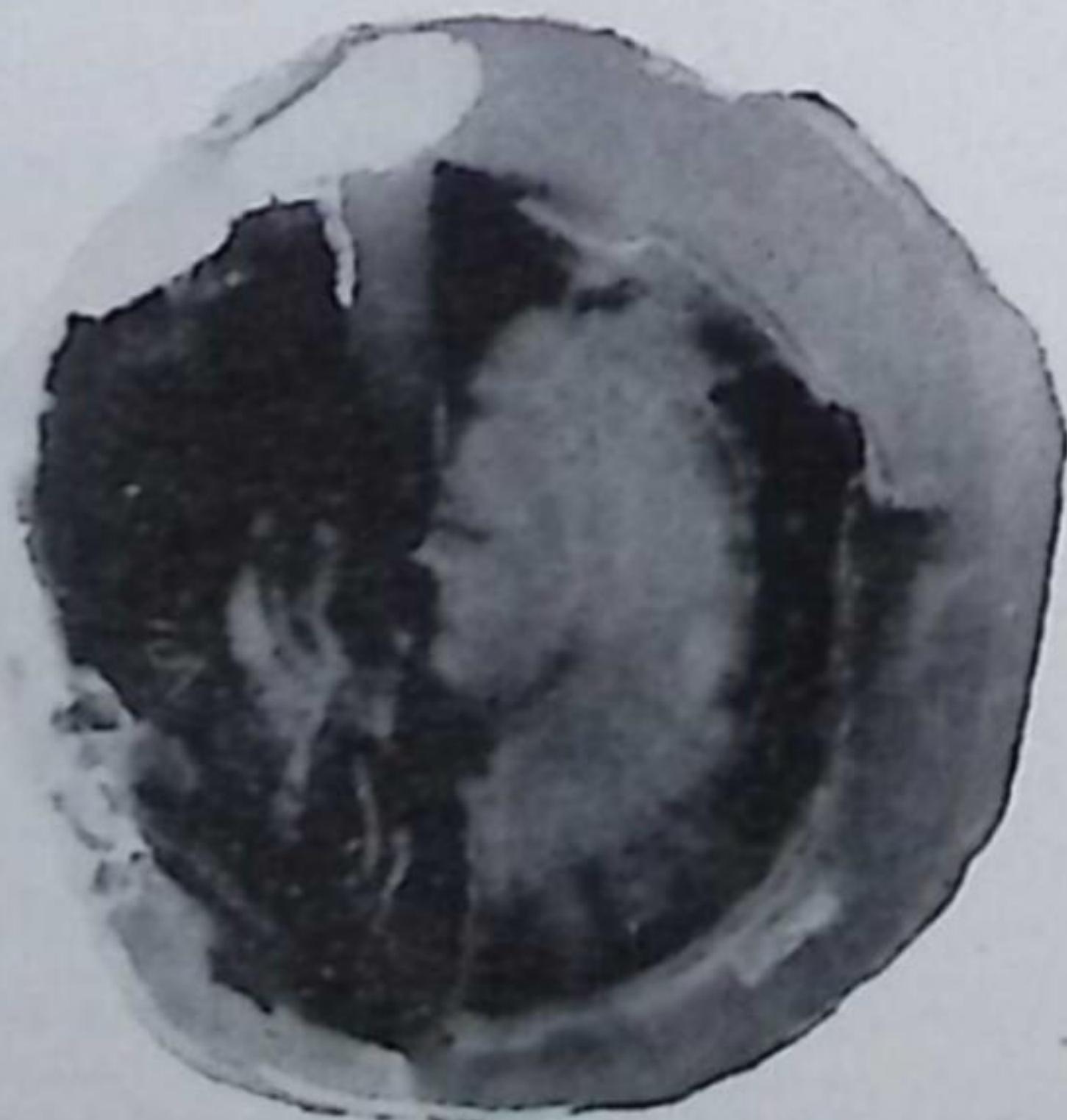
4286 Marlborough Avenue  
San Diego 5 California

## HAVE YOU A "DARK GENTLEMAN" IN YOUR PETRIFIED WOOD PILE?

In the case of Eldon Moore, South English, Iowa, it turned out to be an Indian, shown in photograph below. The "picture" is on the end of an Eden Valley (Wyoming) petrified limb section and the "Indian" appears plainly in shades of brown and tan. Fossil worm boring is preserved on the exterior coating of fluorescent chalcedony. The photograph is not quite two times the size of the original limb section which measures 1 x 2". (Photo by Geppert's of Des Moines.)

In cutting the specimen Moore was following the usual procedure of working Eden Valley limbs—the end was ground slightly rounded with the center being "skimmed off," as the brown and tan colors seldom penetrate very deeply. Fine specimens are often ruined by sawing.

Moore is an old-time professional lapidary who supplies many Iowa jewelry stores with native gems. He also supplies museums, schools and collectors throughout the country with geodes from the famous Keokuk locality.



**AGATE CUTTING AND POLISHING**

Rates are 12c to 20c per sq. inch, depending upon the kind of material. Limit 6" in diameter.

Ring and Brooch Stones made to your specifications by skilled cutter.

LEE STRADLEY

8325 S.E. Mill Street      Portland 16, Oregon

**MARIETT & COMPANY**

DIRECT IMPORTERS AND BUYING AGENTS

**FOREIGN MINERALS**

Serving Dealers and Commercial Lapidaries  
164 So. Central Ave., Los Angeles 12, Calif.

**"Mineral Collectors Handbook"**

by Richard M. Pearl

300 pages of permanently valuable information in 14 useful sections. Cloth bound. Only \$3.75 postpaid.

Mineral Book Company

405-A Mining Exchange Bldg.  
Nevada Ave.      Colorado Springs, Colo.

**Idaho Gem Materials**

It's the same old story — If you want the best you get it at the source. That is why we specialize in Idaho Gem Rock.

Send \$1.00 for approval assortment. See Idaho in color! Idaho plume agate is distinctively different from other types of plume. Our assortment also includes material from Oregon, California, Montana, Brazil, Utah, etc. If you are interested in large slabs of Iris—*free of fracture*—we have them.

Sawing—You can get those "Big Fellows" cut for 7½c per sq. in. in our new 24" Power feed diamond saw. Uniform cut slabs *like you want them* up to 10" x 15".

**Stewart's Gem Shop**

2620 IDAHO ST.      BOISE, IDAHO

**RARE SPECIMENS**

and cutting materials from  
BRAZIL—SOUTH AFRICA—AUSTRALIA

KILIAN E. BENSUSAN

8615 Columbus Avenue  
San Fernando, California  
Phone Sepulveda 7-4623

ON YOUR TRIP TO THE  
DENVER CONVENTION  
in June

Stop at Leadville to cool off  
Good Fishing!  
Good Rock Hunting!

ROBERT S. BURTON  
200 E. 6th St.      Leadville, Colo.

**Operculum "G.I." Cat Eyes**

The Green South Pacific Stone  
for Earrings, Bracelets, Necklaces  
and Pins

GORDON GLEAVE

2112 Pearl Street      Santa Monica, California

**MINERAL  
SPECIMENS**

CABOCHON BLANKS  
CABOCHON PREFORMS  
FINISHED CABOCHONS  
BOOKEND PREFORMS  
FINISHED BOOKENDS  
SLABBED MATERIALS  
HAND WROUGHT SILVER JEWELRY

**Valley Art Shoppe**

21108 Devonshire Blvd.  
Chatsworth, California

**NOTICE**

Due to continued illness, will be closed from May until August. My son will handle mail orders promptly.

**THE WESTERN TRADER**  
2003 - 59 St., Sacramento 17, Calif.

**Lots of good values in the  
middle spread of**

**GORDON'S**

# ◆ *The Penscope— A New Pocket Microscope*

By RALPH T. SALSBURY

President of San Diego Mineral & Gem Society, Inc.  
818 Ft. Stockton Dr., San Diego 3, Calif.



The most widely-used optical "tool" is the simple magnifying-glass. It multiplies the ability of the eye to discern fine and delicate detail, and many arts and trades could not be carried on without it.

However the simple magnifier, though cheap and convenient, is limited in performance and magnification, and in many circumstances quite awkward or impossible to use. In laboratory work it has been superseded, even in low powers, by the much more versatile and powerful compound microscope.

The long-felt need for an efficient, pocket-sized, portable compound microscope has now been met by the development of the *Penscope*, a highly-corrected 40-power instrument which is as easily carried and used as any magnifier, but which readily brings into clear visibility fine details of structure and surface which are quite beyond the powers of any simple magnifier or loupe.

The design of the *Penscope* presented a number of special problems in addition to those of analytical lens design required to eliminate the optical aberrations, and provide the highest possible resolving power. Chief of these was the heavy incidence of stray light reflections from the inner walls of the optical tube. To achieve maximum compactness it was necessary to hold the diameter of the optical tubes to very little more than that of the lenses. Even the blackest surfaces, however, are highly reflective to light of low grazing angle, and this parasitic reflected light ruins the "contrast" of the images. The dark portions of the viewed image are lightened to a gray and the general effect is flat and

insipid.

The designers of the *Penscope* solved this problem by developing a continuous helical light-stop which absorbs and stops stray reflections at all angles of reflection down to zero.

Another problem was to obtain a large apparent field, as here again the small diameter of the instrument also limited the size of the eyepiece field-lens, which restricted the field. This was overcome by utilizing an unorthodox eyepiece lens-system, while still maintaining the required corrections. The *Penscope* has a visible field of over thirty-five degrees, equivalent to a field-disk of an apparent diameter of 6.4-inches, as seen at the standard viewing distance of ten inches. This compares favorably with the field of large laboratory microscopes.

A large apparent field means, of course, a correspondingly large actual field of object that is imaged in the eyepiece, and this brought problems of field "curvature." That is the lack of a common focus for objects in both the central parts of the field and the marginal portions. Field curvature reduction in any practical lens system, at a cost within reason, is best accomplished by using lenses of long focal lengths. This explains the fact that the dimensions of all standard microscopes are on the large side, the standard optical tube-length being 180 millimeters, or about seven inches. It would be very easy to use lenses of deeper curves and shorter focal-lengths, and thus build cheaper and more compact microscopes, but the heavy rounding of the optical fields defeats this scheme.

The *Penscope* therefore was computed to the standard 180-millimeter tube-length, but is made with a telescoping tube. When carried it is no longer or larger than a fountain pen.

Finally there was the matter of secur-

Specializing In Canadian Minerals . . .

## LABRADORITE

We always thought Labradorite was a mighty fine cutting material. Just received a ton and one-half shipment of this material, which is so superior to any we have seen or handled that we are calling it "Canada's Wonder Mineral."

The miracle to us is that a bleak, desolate, frozen country such as Labrador, produces such a gorgeous material of the quality of Labradorite.

Labradorite is unsurpassed for opalescence, showing butterfly blue, reddish-gold and yellow.

What our customers think of Labradorite: "That shade of blue is truly beyond description." "Here is a repeat order for Labradorite, so you know how we like it. In fact, we are nuts about it." Names of above references on request.

**WE OFFER:—**

Single pounds .....	\$2.50	F.O.B. Banff
10 lbs. or over.....	2.35	F.O.B. Banff
25 lbs. or over.....	2.20	F.O.B. Banff

*Dealers please write for prices on 50-lb. lots or over*

**HERE ARE OUR STANDARD OFFERINGS:**

Sodalite	\$2.25 per lb. for No. 1	Drumheller wood	\$1.50 per section
Cancrinite	1.00 " "	Copper zinc ore, from Mt. Eisenhower	1.00 per lb.
Perthite	1.00 " "	Wernerite (Fluoresces beautiful golden color)	1.50 per lb.
Peristerite	1.00 " "	Amazonite	1.50 per lb.

*All prices FOB Banff. Please include postage at the rate of 20c per lb.  
Please Note: Make all remittances by Money Order. (U.S. Postal Notes are not payable in Canada.)*

## LLOYD T. MEWBURN, LAPIDARY

Banff, Alberta, Canada

## Brazil!!

### WHAT A SONG! AND WHAT MATERIAL!!!

We offer these extra fine gem quality items from BRAZIL

**Agate Nodules, 2 to 4 pounds each.....\$1.00 a pound**

**Black Tourmaline Needles, in clear quartz.....30 cents an ounce**

Add 20% Federal Tax

Some with terminations if you want them for cabinet specimens. Specify.

George has just returned from Mexico and Texas, where he has gathered some very fine gem and mineral materials. See them at the Denver Convention.

### Horse Canyon Moss Agate in slabs at 25c a square inch

All orders postpaid, but California residents please add sales tax  
43-page catalog **free** with each order **when this magazine is mentioned**

Full line of lapidary supplies

## 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.

ing sufficient illumination for a bright and clear image under average lighting conditions. This is the same problem met with in camera-lens design, it had to be solved, as in cameras, by the provision of a large "effective aperture" in the objective lens-system. But large working apertures are much more difficult to handle in microscope objectives than in photographic lenses, as the circle of confusion (so-called) of image-elements in the microscope must be many times smaller than in a camera. The image-quality and resolving power of a microscope lens falls off heavily with increase of aperture, or lens-diameter. This problem was solved by the computation of an objective system which utilized several of the post-war, high-index-of-refraction optical glasses. This provides an image of adequate brightness, yet with full resolving power and a flat field.

The *Penscope* opens an entirely fresh world for examination and study in the field. It is an optical tool, for the scientific worker and investigator, which begins to perform where the ordinary simple magnifier leaves off. It costs little more than a good-quality magnifier, which in the "triplet" form now sells for about \$12.00. However the higher-powered compound instrument should supplement, rather than replace, the magnifying glass. It is another valuable and powerful tool for the technician.



## Uses for the Penscope

The 40-power magnification brings out details on a specimen that no ordinary magnifier can hope to equal. The lapidary can readily inspect a polished surface or a cut stone and know what he has. The cell structure of petrified woods may be studied. Flaws may be easily seen and the working results between operations or on the finished product inspected. You want to know why your polish does not shine like the other fellows'? Take a look and you will see a battle ground of pits, digs and scratches that will send you back to that proper lapping grit or that well worn sanding cloth in a hurry. You will realize with a shock that you can't make a gem on a polishing buff and that all of the tin

or cerium oxide you can buy will not produce a decent polished surface until the other grinding, sanding or lapping operations have been properly completed.

The mineralogist may use the pocket microscope to advantage either at home or afield. Large specimens, or those in place, may never be brought to the conventional microscope, even if one is available. The pocket unit makes it a thing of ease. The collector of miniatures may keep a collection of the world and carry it, microscope and all, in a cigar box for evening study in a hotel room. For a few cents he may own a micro-mount of rare and beautiful crystals which, with the aid of the new pocket microscope, will rival anything in the great Harvard collection.

People who are cramped for room (and who isn't these days!) may now keep a fine collection in a bureau drawer. The fellow who owns a piece of Wulfenite as big as a dime may now gain more in pleasure and knowledge from his little specimen than the man who proudly exhibits a piece as large as a cabbage. And the fellow with the big piece will never know how he invested his money by squinting at his valuable crystals through a pocket magnifier. The low price that the pocket microscope retails for is made possible only because the manufacturer has tooled up for volume production. The lapidary and mineral business could not make volume possible at the present time but the wide usage of a portable hand microscope gives the rock people a break. The little instrument has dozens of uses. It is equally at home in any home craftsman's shop, in the factory or in industry at large.

## 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

## 15TH ANNIVERSARY CATALOG NOW READY FOR MAILING

52 Pages 9x12" PLUS OUR SPRING SUPPLEMENT of 20 pages, making 72 large pages. Printed and profusely illustrated. MANY NEW ITEMS OFFERED THAT CANNOT BE HAD FROM OTHER SUPPLY FIRMS. MOST COMPLETE CATALOG EVER PRINTED. Offers the following EQUIPMENT, TOOLS AND MINERALS FOR GEM CUTTING AND ROCK POLISHING:

JEWELRY METALS, FINDINGS, MOUNTINGS, TOOLS AND BOOKS.

FLUORESCENT LAMPS AND FLUORESCENT MINERALS.

LAPIDARY SECRETS AND HINTS — ARTICLES ON JEWELRY MAKING, CUSTOM GEM CUTTING AND JEWELRY MAKING DEPT.

RARE AND FINE QUALITY CUTTING MATERIALS.

MINERAL SETS, NEW MODEL H MINERALIGHT, SYNTHETIC BOULES, A NEW LINE OF TWEEZERS, FILES, PLIERS, HILLQUIST TRIM SAW, DUPLICRINDER, HIGHLAND PARK SAW, INDIAN DESIGN STAMPS, SPEEDWET SANDING CLOTH, bargains in GRINDING ARBORS, and MANY OTHER ITEMS YOU NEED.

SEND 35c in coin or stamps for your copy.

**CALIFORNIA GEM TRAILS**—A new Field Guide Book—JUST OFF THE PRESS. 16 accurate and reliable maps by the author, photos and valuable text. A "MUST" FOR EVERY GEM COLLECTOR. \$1.50 POSTPAID.

**IMPORTANT NOTICE:** Our shop will be open on FRIDAY and SATURDAY ONLY. Week days of Monday through Thursday open by appointment only. Hours 8:30 A.M. until 5:30 P.M. Our new 150-page catalog is now being prepared. ARE YOU ON OUR MAILING LIST?

**TOURMALINE GREEN SPINEL**—Whole boules of approximately 250 Carats at 8c per carat. Sections weighing 20-50 carats at 12c per carat. 100 carat sections at 10c per carat. This is a new and very beautiful color in synthetics.

*Grieger's* 1633 EAST WALNUT STREET PASADENA 4, CALIFORNIA

*Announcing . . .*

A NEW DEVELOPMENT FOR  
SHOP AND FIELD

### THE PAN-TEK POCKET MICROSCOPE (Penscope)

Now—For the First Time—A 40-Power Wide-Field Microscope—Built to Professional Standards—Priced for the Hobbyist—Clips to the Pocket like a Fountain Pen and as Easy to Operate. Examine a Gem or a Mineral Specimen through this Instrument and You will never be Without One. Postpaid for \$15.00.—Information Free.

MISSION MINERAL MART  
818 Fort Stockton Dr., San Diego 3, Calif.

*Open All Day Saturday  
1-5:30 P.M., Other Days  
Closed Sunday*

**MUSEUM PIECE  
UNIQUE  
Genuine Rough Garnet  
FOR SALE**

**Largest ever seen;  
approximate size 7x9 in.  
Pictures on request.**

★

**SIMAB CORPORATION**  
160 Broadway  
New York 7, New York

# ◆ *New Lapidary Marvels*

By LELANDE QUICK

We grew justifiably excited last Fall when Alan Branham revealed to us that the largest piece of jade sculpture in the world was done by Donal Hord in nearby San Diego. Following up that tip was a pleasurable experience that resulted in a succession of articles about THUNDER in many publications following our January Jade Issue. But similar experiences have come so thick and fast during the last two months that we cannot quite comprehend them. Some of them frighten us a little for they can mean the mechanizing of commercial gem cutting to the point where it will almost become a lost craft as far as cabochon cutting is concerned. Some of these things cannot be fully revealed but we shall offer as much information as we can at this time.

We offer first the news of the newest and most beautiful gem in the world. Some of the story is told by Grant Waite in another article in this issue on page 74. We will not discuss it here except to say that Dr. Bandy of the Gemological Institute claims that a faceted gem of the new synthetic rutile makes "the finest diamond look like a door knob and the finest opal look anemic." The makers of the rutile want no publicity at this time and readers are cautioned not to be pestiferous about the matter for none of the material is available to anyone—POSITIVELY. We hope to have a faceted gem of the material displayed at the booth of the LAPIDARY JOURNAL at the Long Beach convention in July, but that is uncertain. Synthetic rutile is not to be confused with another new gem—(silicon carbide)—which was thoroughly and learnedly discussed in an article in the April issue of the MINERALOGIST by Jack De Ment.

As if that news was not enough to take in stride we then found that the largest star sapphire in the world has been cut recently by a Los Angeles lapidary—Harry Kazanjian. On the cover of our issue for last October we presented for the first time a picture in actual size and color of the Star of India. That gem

weighs 563.35 carats and up to that time it was the largest star sapphire in the world. But the new stone, called the Black Star of Queensland, weighs 733 carats and was cut from a piece of rough material weighing 1156 carats. The gem was found in a river bed in Queensland, Australia, in a mine in which the Kazanjian brothers hold an interest.

While the Star of India is 1-3/4" long by 1-9/16" wide the new stone is 2-3/16" by 1-27/32" by 1-1/32". There is one great difference however and that is that the new stone is blackish-brown instead of the beautiful blue in the Star of India. It has a well defined and perfectly centered six-pointed star. It was first previewed at the Beverly Hills Hotel on April 2nd and it is now in New York where the consensus of experts has placed a retail value upon the Star of Queensland of \$325,000. Mr. Kazanjian emphasized, in an interview with the editor on May 7th, that the gem is not for sale. Later on we expect to offer an article on the problems of cutting it, but in the meantime watch for pictures in color scheduled to appear in LIFE magazine about the time this issue appears. A complete story appeared in the Los Angeles Times on May 8th but the first published news of the Star of Queensland appeared in the Hollywood Citizen-News on April 3rd.

During a visit to Santa Barbara we saw the most marvelous advances in lapidary equipment that have been made in the history of the world. They all came about because one man got so interested in jade that he wanted to turn it out by the ton and cabochons by the million. Unacquainted with the tedious work required of the lapidary he was sure that the thing could be done faster. And while "fools rush in where angels fear to tread," W. R. Kelley applied fine engineering skill to his problems—and he came up with the answers.

He is building a saw that will saw through a jade boulder weighing a ton like a redwood log going through the saw mill. But the amateur isn't going to

# STOP!

On your way to or from the Convention in Denver, Colo., or any other time and visit our new store and Jade Shop at 423 Main St., Lander, Wyo.

We have the FINEST stock of the FINEST JADE, in the FINEST SHOP, in the FINEST CITY, in the FINEST STATE, in the FINEST COUNTRY.

Jade in all its colors in the rough, slabbed or cut and polished.

FINE agates, FINE Jaspers, FINE Petrified Woods and many, many FINE materials to choose from.

## VISITORS WELCOME AT ALL TIMES.

See us at the Denver Convention

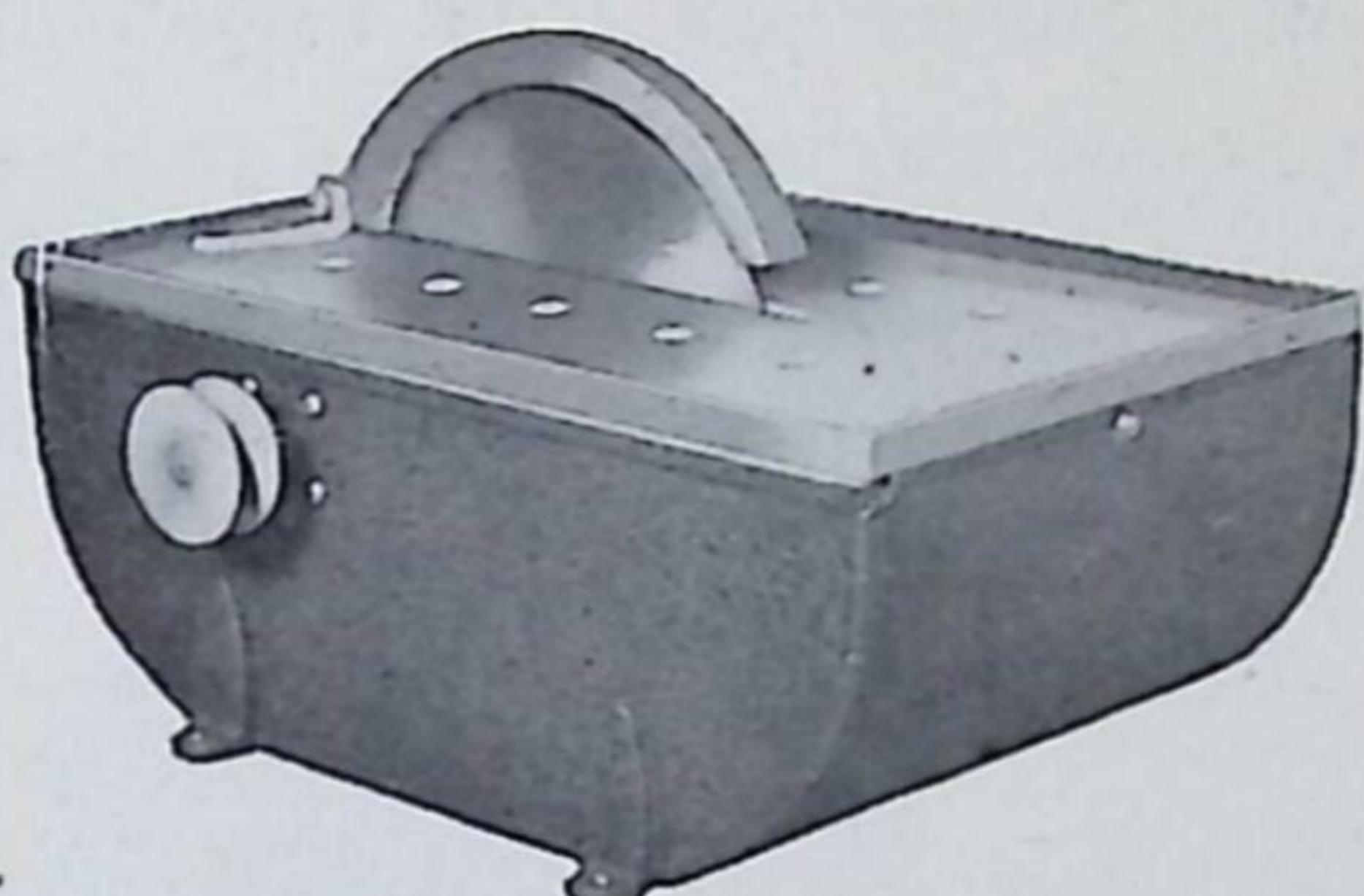
## THE ROCKY MOUNTAIN JADE SHOP

BERT A. RHOADS & SON  
Box 598 Lander, Wyoming 423 Main St.

## The "PERRY" 8-INCH TRIM SAW

Due to national-general acceptance of this trim saw, we are, by mass production, able to offer gem cutters this smooth sawing, fast cutting unit at a new low price.

Now **24<sup>75</sup>**



- Made of Heavy aluminum & steel
- Uses either 6 or 8 inch blades.
- Ht. 7"; Wt. 10 Lbs; Table 10x15 in.
- Beautiful oven crackle finish.
- Many, many other fine features.

See at your dealers' or write LORAN PERRY  
118 N. Chester Pasadena 4, Calif.

## Are Your Minerals and Gems INDEXED?

We don't need the money nearly as much as your materials need our index cards. If you can't spare the money, we'll swap for most anything. We'll pay the postage from Des Moines to China. **We want you to index that collection!** Hundreds of collectors are using them all over the U.S.A. They're Standard now.

300 for \$3.50 — 500 for \$5.00

## SERVICE *Lapidary Co.*

1308 WEST 42nd STREET  
DES MOINES 11, IOWA

## NOW !!

*Synthetic* \*  
\* *Star Ruby*  
and  
*Star Sapphire*  
\*

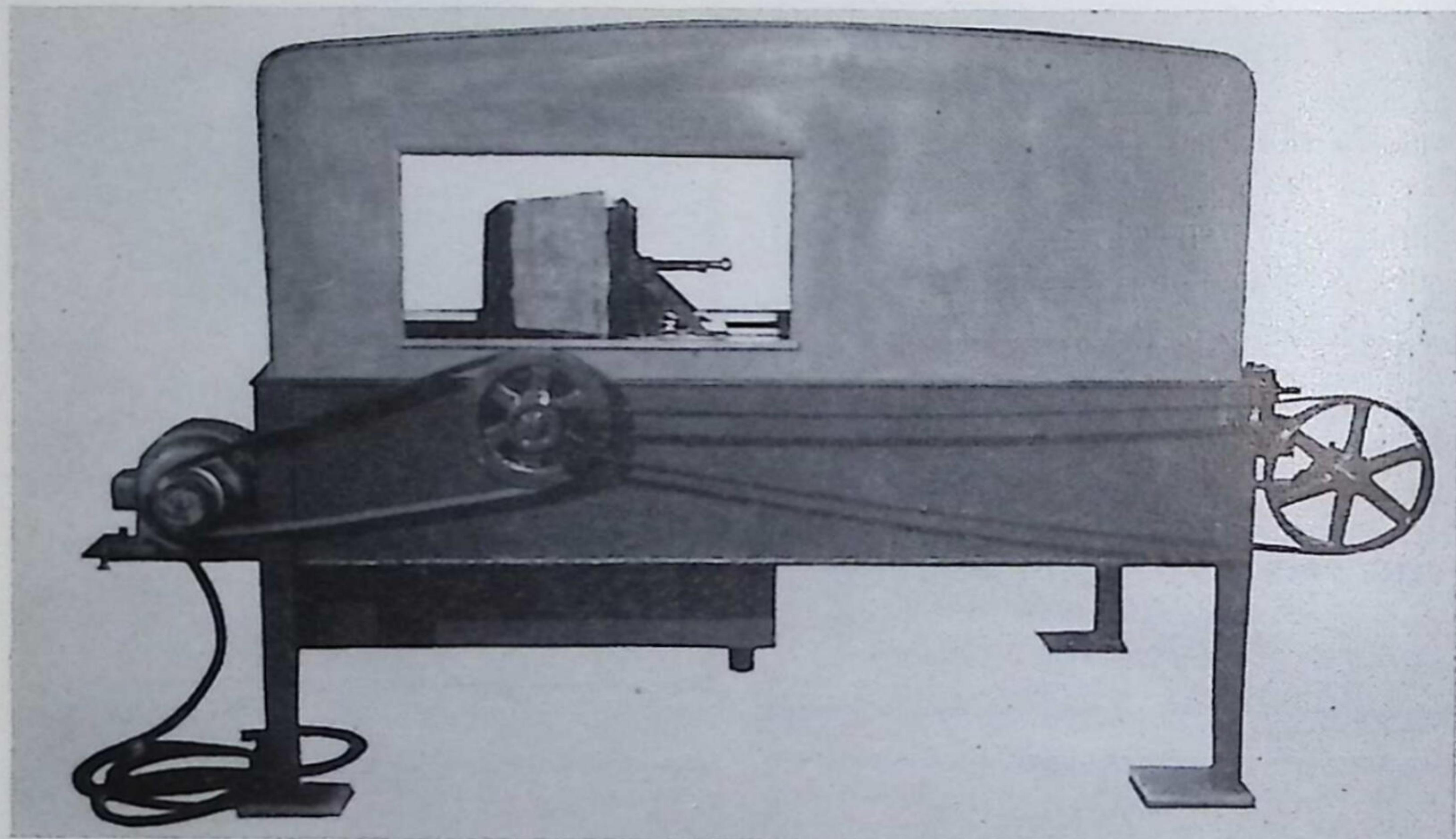
## ACE LAPIDARY CO.

INQUIRIES INVITED  
92-32 Union Hall St.  
Jamaica, N. Y.

build such saws very fast for the blades are sintered diamond blades a quarter inch thick and 36" in diameter. They cost \$1000 each and each saw has two blades traveling overhead and in three directions. This saw will be used for blocking large boulders for transfer to a smaller slabbing saw.

The saw is being built by H. B. Davies Smith at Summerland, Calif. Smith built

is very high and the diamond wheels alone cost \$400 each. No amateur is ever going to own one for it is very doubtful if they could be sold for less than \$10,000 each. Mr. Kelley has made a very searching analysis of all the gem cutting facilities of America and his figures indicate that there are but 42 companies who would find the machine practical for their business. Methods are



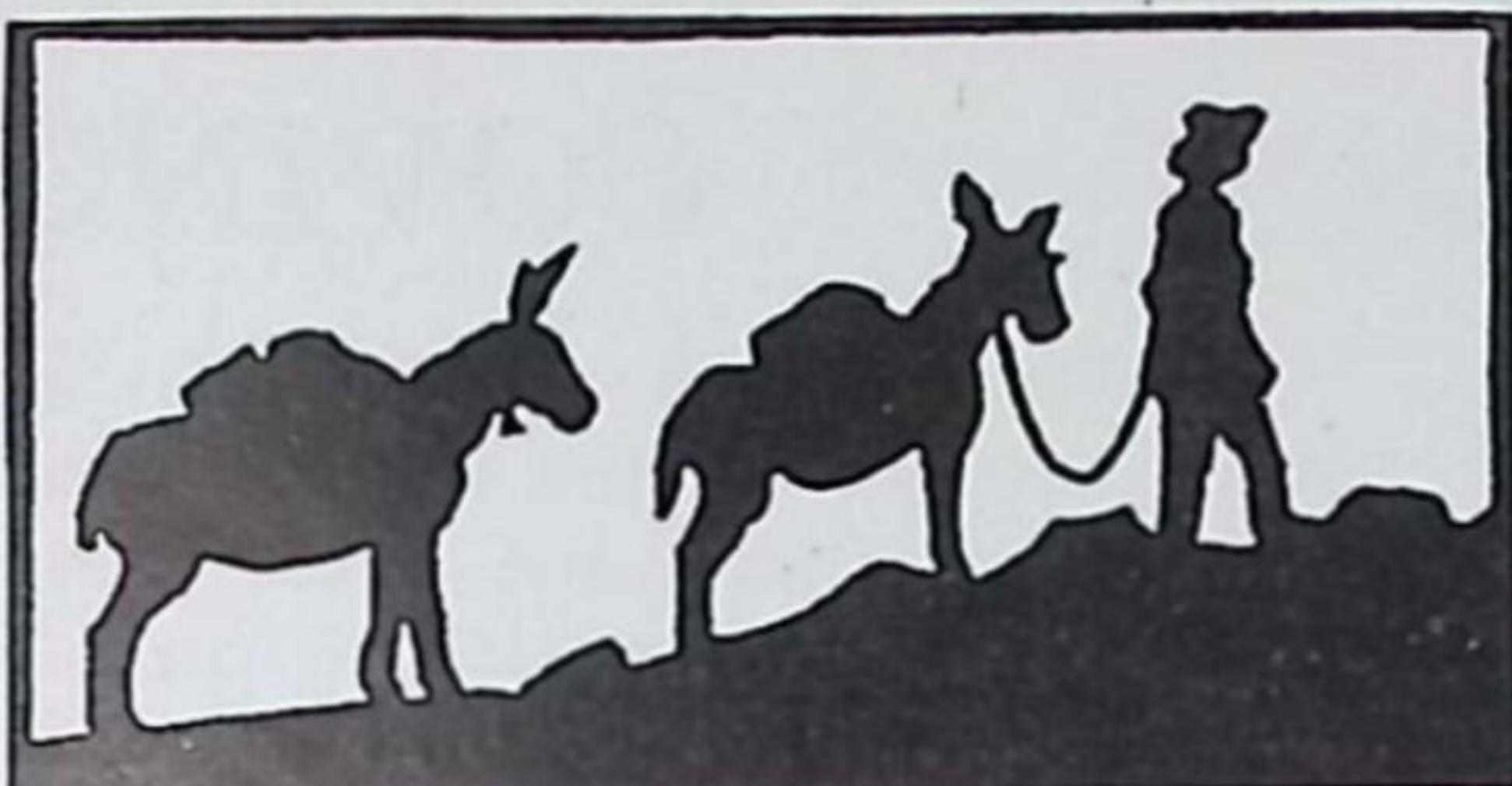
*Harry Smith's "Big Inch" saw described below.*

the "Big Inch" slabbing saw pictured above. This saw is 6' long by 4' wide and 5' high and is run by a 3-H.P. motor. It has a power feed and 2" guides under the vise which opens up to 24". It holds 20 gallons of coolant and uses both 24 and 36" diamond blades. The "Big Inch" cuts rocks up to 400 pounds and weighs 2250 pounds itself.

Then came the cabochon machine—and we mean a cabochon MACHINE. This precision instrument is so fine that it turns out a cabochon in just 90 seconds after the dopped stone is applied to the diamond grinding wheel. One man can turn out 4000 finished cabochons a month in standard working hours including the sanding and polishing. It takes 10 lapidaries to do the same amount of work by hand. The cabochon machine does the work better for every gem is exactly alike. The machine is only suitable for companies doing cabochon work continuously as the cost of the machine

now being worked out where cabochons may be sanded and polished a gross at a time every two hours. Mr. Kelley is working toward a goal of 500 cabochons a day per machine.

At times some of our friends write a little petulantly about "California lapidaries." This is sectional feeling that is quite understandable in America where every energetic man in the west is labeled "upstart" by the easterner while the conservative easterner is labeled "mossback" in the west. What our eastern friends do not realize is that in Los Angeles County alone we know that 30,000 persons, both amateur and professional, own some sort of lapidary equipment. That is less than 1 per cent of the population of the county which is nearing four million. It therefore becomes apparent that with ten times as many lapidaries as Amsterdam itself that something is going to happen in the lapidary world and it quite likely is going to happen in California so that when we report the



### That's Me on the Right

# Australian Azurite

**Cutting Nodules (Ring-size)**  
**3 for \$1.00**

# Genuine Jet

**Three Pieces \$1.00  
Will Make 3 Ring-size Cabs**

# MORE STAR QUARTZ

Ready to finish  
Sphered, Oriented and Marked  
Small, Medium, Large  
\$1 to \$3 each

**FIVE POUNDS GOOD MIXED CUTTING MATERIAL—\$5.00**

Please add postage on ALL orders—and tax where it applies

**SATISFACTION GUARANTEED ON EVERY PURCHASE — GOOD VALUES FOR MORE THAN 6 YEARS**

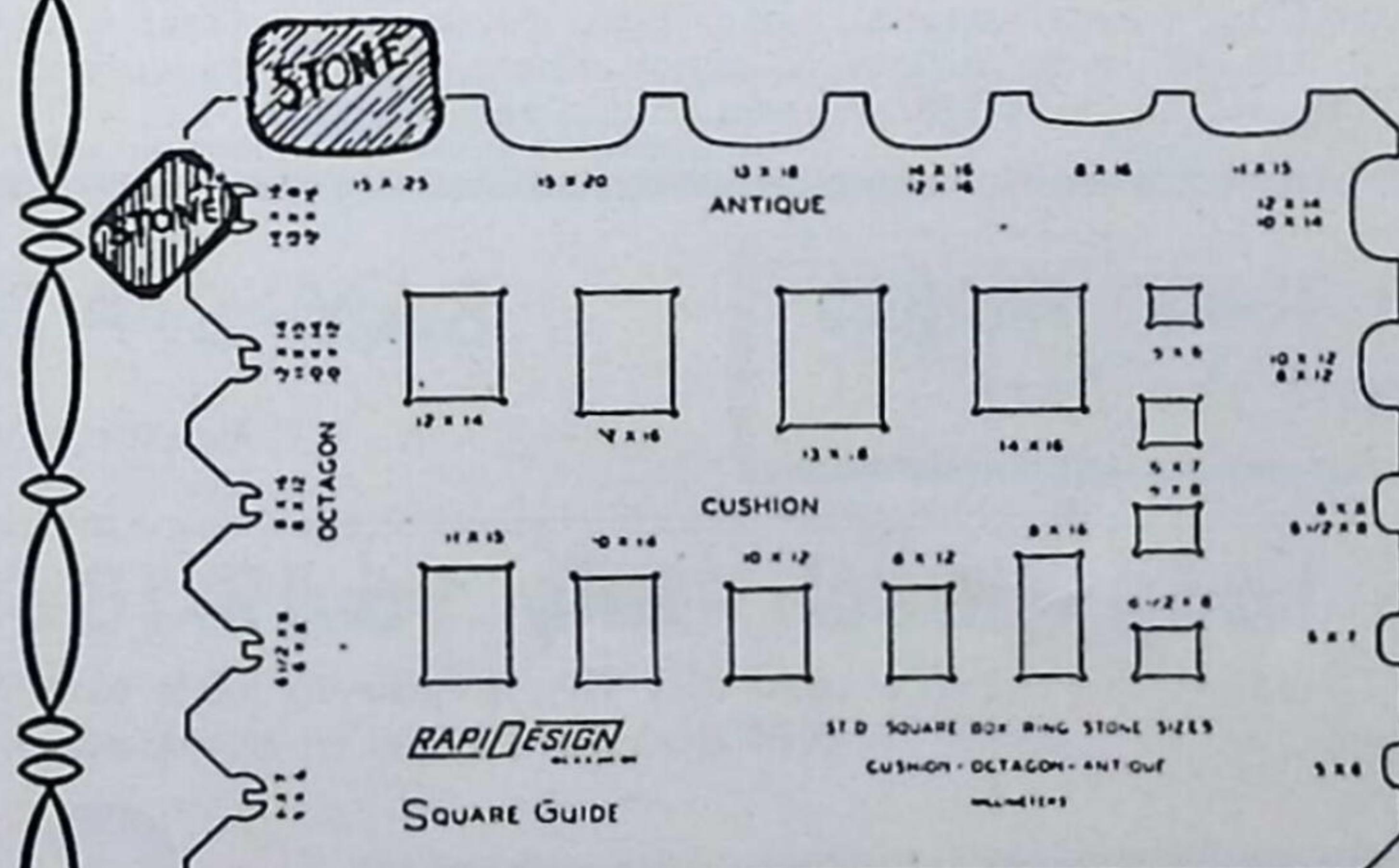
453 E. Garvey Blvd.

## CHUCK JORDAN

### **El Monte, Calif.**

# GUIDE STONE GAUGES

## STANDARD MILLIMETER SIZES



## **Standard Oval Guide**

# **Brooch & Costume Ringstone Oval Guide**

**CROSS AND  
HEART GUIDE**

Sold only through dealers

**Square Guide \$3.00**

# GEORGE T. DAVEY

## WHOLESALE DISTRIBUTOR

**9246 Tobias Avenue**

## Van Nuys, California



## COVINGTON H

POWER FEED DIAMOND SAW UNITS are improvement in the use of diamond blades for gems and specimens. The cutting life of the blade is increased, that the saving on blades soon will pay for this unit. This saw unit is so fool-proof that it has never cut a rock or mineral specimen before it has cut the same results as a cutter of years' experience.

It is especially adapted for industrial use under hard and constant service. Uses standard speed type blades.

### NEW COVINGTON

12" space belt

Price of Arbor

All prices f.o.b.

See the complete COVINGTON

### *Covington Equipment Use*

#### Banded Brazilian Carnelian

One of our specialties

Choice slab material at \$3 to \$5 a slab  
(figured at 35c a square inch)

#### IRIS AGATE—Large

An outstanding addition to a mineral collection  
12" in the greatest length and 6½" in width  
brilliant iris around the entire piece

### NEW FLUORESCENT MATERIAL FROM ARIZONA

#### BRILLIANT RED

Rarely can you find a good fluorescent material that is beautiful by itself (that is with no light at all). These specimens will dominate any collection where they are shown and when you put the MINERALIGHT on them—broth-er—you should see them!!  
Superb cabinet specimens—\$1 to \$5 each

Small pieces 25 cents up—Minimum order \$1.00

### Full line FELKER DI-MET BLADES Acknowledged the Best

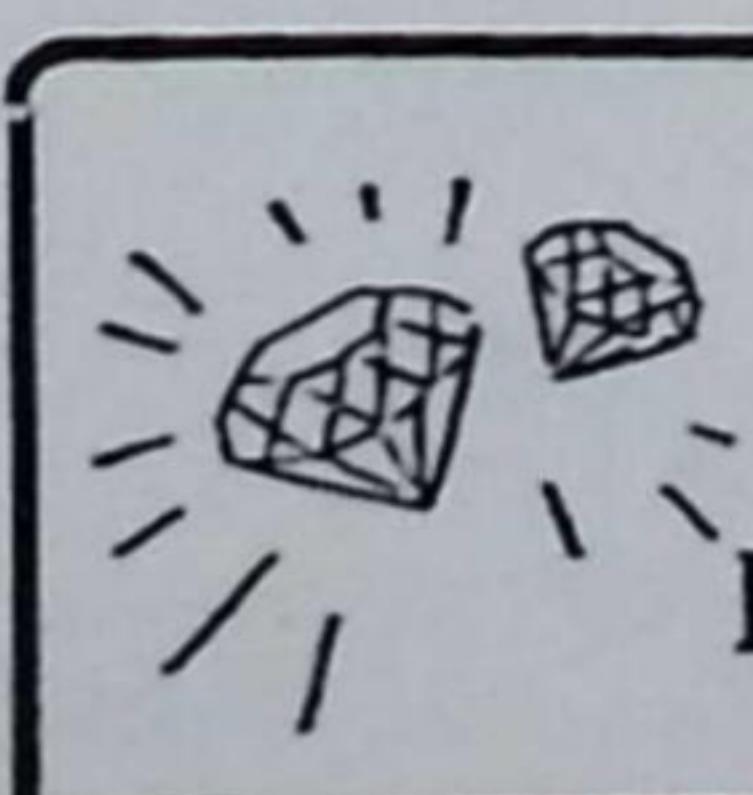
### BAY STATE GR

Faster cutting—Longer life

### Set Sail for Long Beach - July 16-17-18 - The

We cordially invite you to visit our store in Long Beach, California. We will do everything in our power to make your stay a happy one.

Visit Our  
Booth at  
**DENVER**  
in  
**JUNE**



Open Every Day but Sunday

9:30 A.M. to 6 P.M.

Lowell R. and Florence Gordon

# GORDON

GEM AND MINERAL

Dependable Lapidary Supply

## High Speed Power Feed Diamond Saw

the most recent  
or cutting crystals,  
blade is so greatly  
pay for the cost of  
a person who has  
an operate it and  
ence.  
as it will hold up  
ard or new high

The saw is recommended for use with a 14" blade but 12" blades may also be used. This POWER FEED DIAMOND SAW UNIT is made with heavy bearings, rust proof shielding, and pan. It stands on its own steel legs, as an individual unit ready to operate at all times. The COVINGTON SWING ARM CARRIAGE and POWER FEED insures maximum results from blades and prevents carriage and bearing wear. This unit will cut any material up to the capacity of a 14" blade. It has a 5" cross feed adjustment for slabbing.

Price (Less Blade and Motor) \$111.55

GRINDING ARBOR — 1" Shaft — Double Sealed Ball Bearings

ween wheels—Will take up to 10x1½" grinding wheels

\$29.50—Shields \$7.50 each (State whether right or left)

Redlands, Calif. (plus sales tax on California purchases)

line demonstrated at our booth at the Long Beach convention in July

by the U. S. Government

### Museum Specimen

private collection or for a museum  
in the greatest width with a band of  
ce that is 1¼" wide

Price \$100

### STAR ROSE QUARTZ

Limited supply  
Each piece tested and guaranteed  
to show star  
25c up per piece  
Minimum order of \$1.00 on this

### OUR STANDARD SPECIALTIES

GORDON'S GREEN GRIPPER DOPPING WAX—\$1.25 a pound or 35c a stick

STANOXITE—Fast polishing compound—\$1.25 a pound

POLY ARBORS—Popular priced grinding arbors—D-12—\$15.95

D-12WS—\$17.50 ★ D-3—\$29.95

### FAVORITES WITH THE GEM CUTTERS

### GRINDING WHEELS

life—Popular Prices

### MINERALIGHT - Model L-H - \$12.50

The NEW Low Priced light that's  
sweeping the country

## World's Largest Gem and Mineral Convention

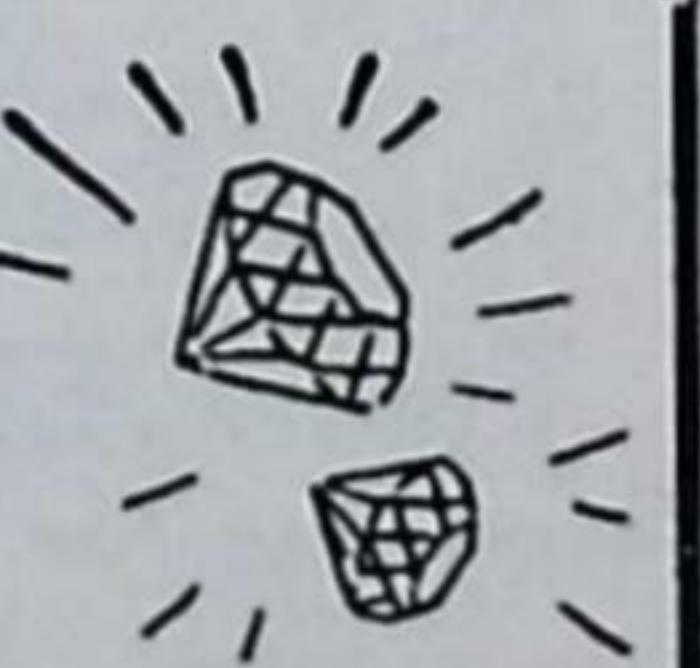
g Beach before and after the convention. We  
our visit to Long Beach a most pleasant one.

**DON'S**  
**ERAL SUPPLIES**  
biliary Equipment

1850 E. Pacific Coast Highway

Long Beach 6, California

Phone 7-3856



Visit Our  
Booth at  
**LONG  
BEACH**  
in  
**JULY**

## REAL GET ACQUAINTED SPECIALS

2 Black Onyx Preform Cabochons ..... \$1.00  
20mm by 15mm — Diamond ground — Ideal for cabochons or doublets  
1 stone marking pencil  
*Federal Luxury Tax and Postage Included*

10 (TEN) Brazilian Agate Preforms ..... \$1.00  
*Federal Luxury Tax and Postage Included*

### AUSTRALIAN BLACK OPALS

Stones priced at \$2, \$3, \$4, \$5 each. Polished on top to disclose cracks or imperfections. These make beautiful doublets by using black onyx (See above offer) or obsidian backing.

**MONEY BACK IF NOT SATISFIED**  
*Add 20% Tax on This Item*

### BRAZILIAN AMETHYST — CABOCHON GRADE

*100 carats for only \$2.50 with tax and postage included*

### MACHINES — SUPPLIES — CUTTING MATERIALS

*Complete Supplies for the Lapidary*  
*Send for Our Large Free Catalog*

**Michigan Lapidary Supply and Research Co.**

332 Hamilton St.

Birmingham, Mich.

### For Commercial Cutters and Manufacturers and the Hobbyist

QUALITY FELKER SAWS (all sizes)

ABRASIVES

POLISHING POWDERS

FELT WHEELS (Rhodes)

FINE GEMS (finished and unfinished)

SILVER SUPPLIES

GML QUALITY FINDINGS

LAPIDARY EQUIPMENT

If you haven't ordered from us you don't know what quality and low prices are. Be on our mailing list—drop a card today. You'll save money and get fast service.

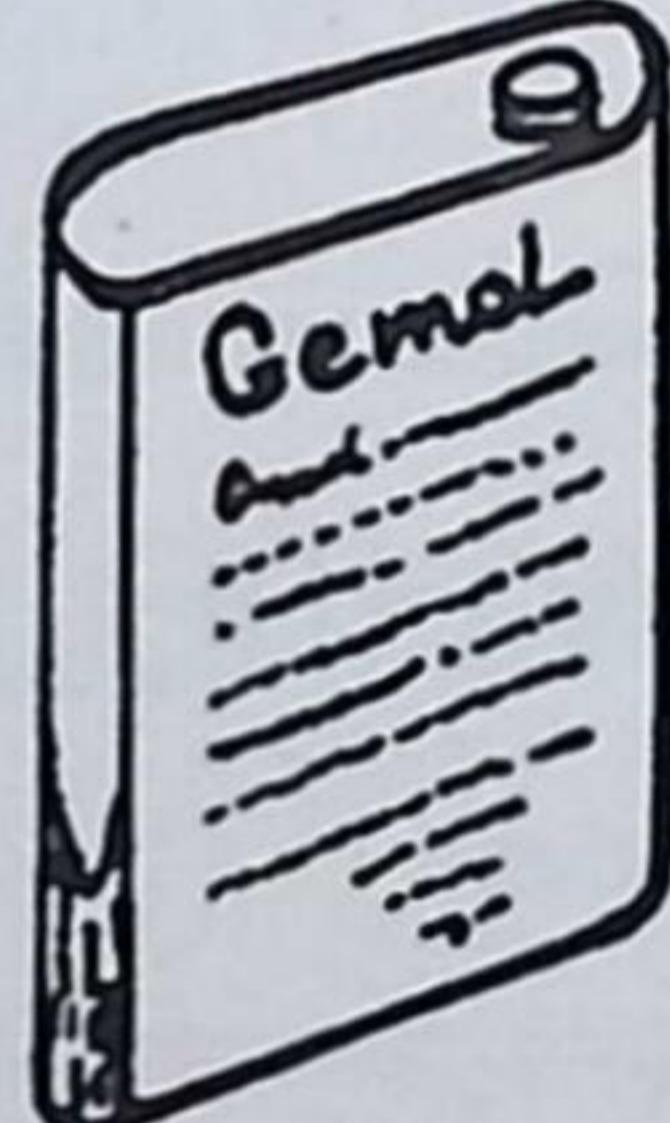
GEMOL

The Wonderful New Soluble Oil Makes Gem Sawing a Pleasure. The "non-mudding" feature of this product promotes ease in cleaning such as never before equalled. Grease stays in the bearings. Slabs wash easily in water. This rust inhibiting lubricant is ideal for sawing.

Full instructions on container.

One Pint (for 60 pints of sawing solution)

\$1.00 plus 20c postage. One gallon \$5.95 postpaid.



*Send 10c today for our illustrated catalog No. 1-48  
with its many excellent features*

### The GEMINLAP MART

FINDINGS

*Everything for the Jeweler and Gem Cutter*

SUPPLIES

4604 S. 49th St.

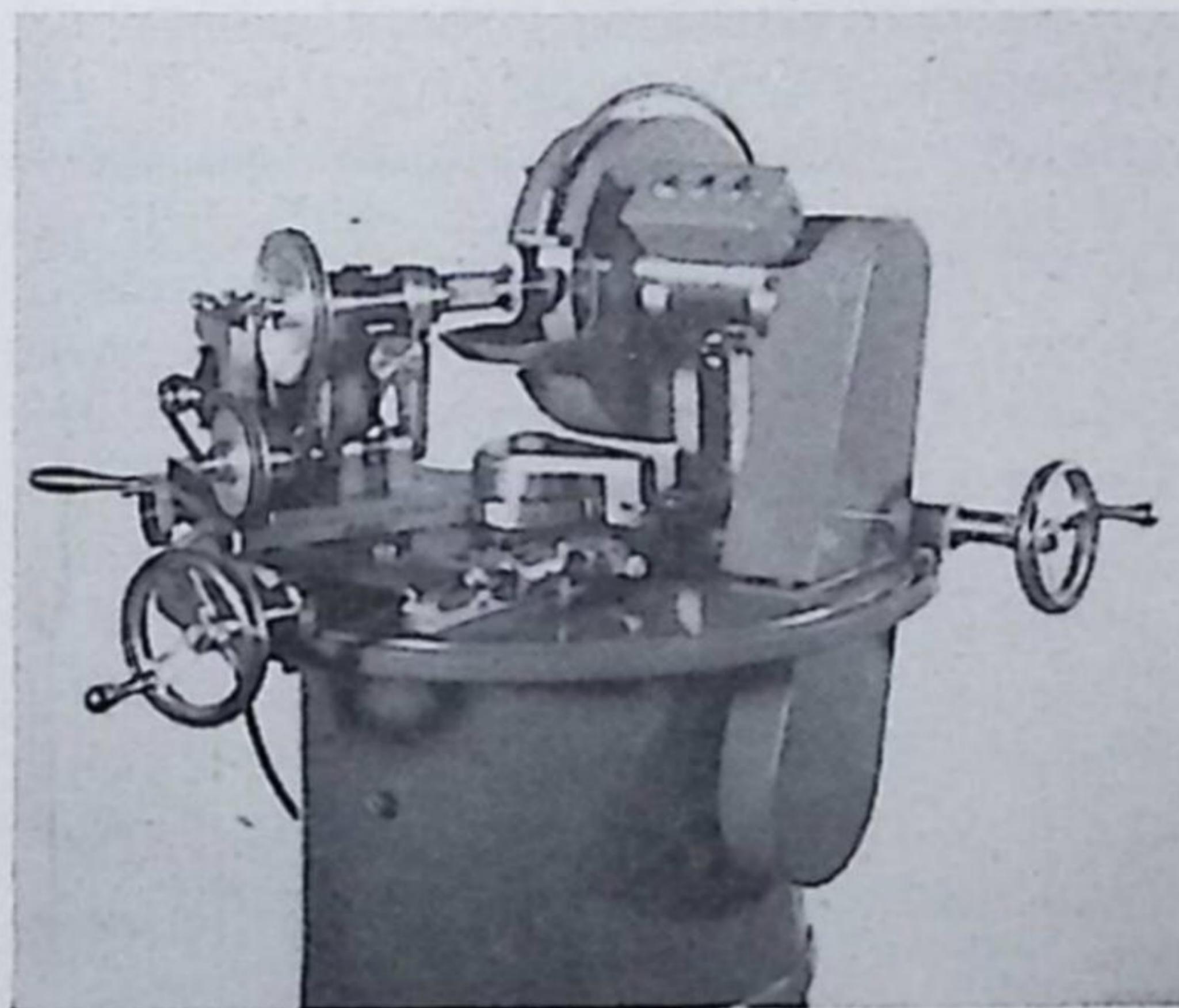
Dept. B

Milwaukee 14, Wisconsin

facts we have no wish to rub fur the wrong way.

It happens that all of these problems were solved for Mr. Kelley by California lapidaries (not from Los Angeles County, alas!) and by AMATEUR lapidaries at that. The cabochon machine itself is the brain child of E. P. Van Leuven of Bakersfield, Kern County. Mr. Van Leuven conducts the excellent lapidary section of MINERAL NOTES AND NEWS, the official publication of the California Federation of Mineralogical Societies. The big saws were designed by Harry Smith of Summerland in Santa Barbara County and the line production methods of dopping, sanding and polishing are being worked out by Gordon Bowser of San Luis Obispo in the county of the same name.

We spent three days examining these operations but at this writing we have no more information to offer. As it is ready for release we have been assured that our readers will know about it first.



*The Van Leuven Cabochon machine described on page 94.*

*Just back from*

## SOUTHERN CALIFORNIA ROCK TRIP

Have some very nice material including:  
Horse Canyon Agate \$2.00 lb.—Lavic Gem  
Jasper 75c lb.—Petrified Palmwood \$1.50 lb.  
—Moss Opal 50c lb.—Large chunks (25 lbs.  
or more for bookends, etc.), 35c per lb.

Local Oregon dendrite agate \$2.00 lb.  
Variety of sliced materials, 10c to 50c  
per square inch

### STONE GAUGES

Set of 3, \$7.50, or 4 for \$9.25, postpaid.

Some jewelry findings now in stock—Books  
on minerals—Lapidary Equipment & Supplies  
—Ultra-Violet Mineralights.

Prospector's picks, \$3.00

### THE HODGE PODGE SHOP

Route 4, Box 284  
On the Rogue River & 99 Hwy., 4 1/2 Miles South of  
GRANTS PASS, OREGON

### GOLD - RUBIES - SAPPHIRES

STAR RUBIES "GENUINE": Fair Quality  
with nice color and star. Common imperfections  
show in these stones of foreign cut  
which are found in "star" Corundum. A  
Collector's item. The color, star and quality  
determine the size of the stone, which may  
be from approx. 65/100 carat to 86/100  
carat. Priced at \$28.89 each stone.

STAR SAPPHIRES "GENUINE": Beautiful  
Star Sapphires of good quality with good  
stars and can be mounted. Sizes are approx.  
55/100 carat \$3.88; 70/100 carat \$4.70;  
85/100 carat \$5.91; 1 1/2 carat \$10.00, and  
2 carats \$12.75 each.

GOLD IN QUARTZ: Rich Fine Gold in  
Quartz that may run 80% Gold by weight.  
Very choice specimens priced according to  
Gold content and size. \$4.50; \$5.50; \$6.50;  
\$7.50; \$8.50 and \$15.25 and also up to  
\$100.00 each. A VALUABLE SPECIMEN TO  
OWN.

Prices include Tax and Postage in the  
U.S.A. Stamps not accepted.

Price List sent upon request

**MRS. B. F. NONNEMAN**  
P.O. Box 324, Dept. 8 Salinas, Calif.

## Custom Cutting

PRECISION sawing, grinding, drilling and polishing. Let us offer estimate for special  
cutting of your best materials.

MASTER  
WORKMANSHIP  
AND PERFECT  
DESIGN

**MINTON'S**  
"The best is never too good."  
—AGATES—  
6405 N. PORTSMOUTH  
PORTLAND 3, OREG.

UN  
2841

CREATORS OF  
THE ULTIMATE  
IN BEAUTIFUL  
GEMS

# ◆ *Alaska Pioneer Lapidary*

By FRED BAHOVEC

Baranof, Alaska

Alaska has its gold and jade, known to all natives inhabiting the AL-YAS-KA or "Great Country" before the advent of the first white man. A great deal has been written about them, but no one has made any attempt to write of other Alaskan gemstones. My gem interest began with my hobby of looking for odd shaped and different colored rocks. Prospectors looked for gold and pounded all the rocks for precious metal, disregarding everything else except "how much gold is in it."

Over a period of years of collecting I used rocks for ballast for my boat until the time came when I had to expand. Baranof is one of the beauty spots for tourist attraction and good for my lapidary business, and I had some very interesting polished stones which were shown to a lot of people. In January, 1945, the Business and Professional Women's Club of Juneau invited me to exhibit my collection of jade, agates, jasper, petrified wood, primnoa, gorgone, jasp-agate, bloodstone and plasma. What a reaction for Alaskans! It was a revelation to them as they had no idea of any gem-stones in Alaska, or that anyone was finding and polishing them. Some people accused me of bringing agates from the states, and thought that I was painting the picture agates.

I was interested in semi-precious stones from the time I landed in Wrangell on the steamer, "Humbold" in March 1912. The first thing I had to see was the well known deposit at Garnet Ledge at the mouth of Stikine river. To my disappointment I found that they were too shattered for lapidary work. In the following years my travels in Southeast Alaska were over thousands of miles of rocky beaches and mountains. I added pretty stones here and there and explored the hidden beauty within. Nearly all phases of cryptocrystalline forms and chalcedony were found. Among them were black flint, golden jasper, blue jasp-agate, scenic agate, frost agate, cloud agate, fortification agate, ame-

thystine agate, banded agate, petrified wood in black, or gray and black, with cells filled with white dots of crystals and agate, and plasma.

My lapidary equipment was built through my own ingenuity and the necessity for motive power, which was water. I first built a water wheel to generate electricity and then all the rest of the lapidary equipment, including a 20-inch diamond saw with a carriage to handle 200 pound slabs.

A new addition to the list of gemstones was discovered for gem collectors by myself—in 1938 through very peculiar circumstances. While reading a book, I was struck with a picture showing a portrait of the Duchess of Portsmouth, favorite of Charles II of England, with a favored midget who held in one hand a conch shell full of pearls and in the other hand a branch of coral. I had a similar shaped branch of coral. After much coaxing by my wife to see what it would make, I cut and polished a piece of it, and it made a beautiful gem.

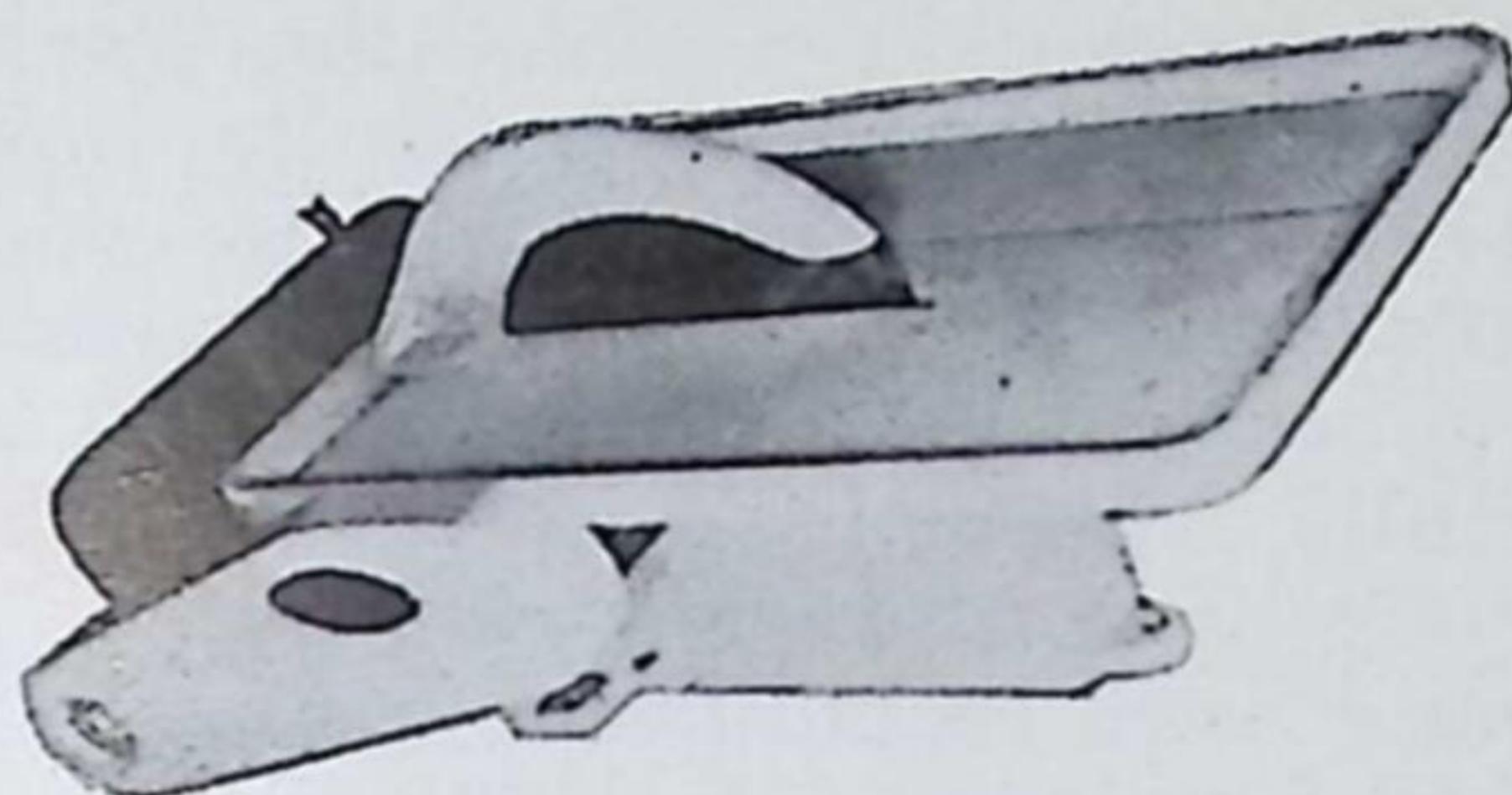
This coral was identified by Dr. Waldo L. Schmitt, Head Curator of Biology in U. S. National Museum; Washington, D. C., who, on his return trip from the Aleutian Islands, paid me a brief visit. It is Alcyonarian, Primnoa Resedaformis (Gunnerus). The skeleton is covered by brick-red fleshy parts which constitute the living part of the lowly creature. It is found in the deep waters of Chatham Straits and elsewhere in depths from 1800 to 2400 feet where Stygian darkness prevails.

Fishing for black cod at these depths the fish hooks accidentally snag on the bottom around these commonly called "red trees." To the great disgust of the fishermen, hundreds of dollars is lost in fish gear trying to get it loose, and thus sometimes pieces of coral branches are brought to the surface.

The technique of working this coral had to be worked out and I found that

# COVINGTON HIGH SPEED TRIM SAW

Looking for a high class, high speed, eight inch Trim Saw? Quit looking. Here it is. Engineered for the amateur or professional operator.



Sturdily built of well machined aluminum castings and equipped with self-lubricated, splash-proof, neoprene sealed, precision ball bearings.

No need to cover this saw with a horse blanket to eliminate the splash. New coolant control feature prevents splashing. With a cast aluminum safety guard for

belt, and a motor mounting on the rear end of the base, this saw unit is the most compact model on the market.

The unit can be easily attached to the chassis of a **COVINGTON POWER FEED SAW UNIT** and operated by the master saw motor simultaneously.

Complete eight-inch unit including belts, pulleys, squaring device (less motor and blade), \$52.50. Six-inch blade model also available for \$48.50. Prices F.O.B. Redlands, Calif. Plus California sales tax when applicable.

*Send 25c in coin or stamps for new catalog*



## A MOST UNUSUAL GEM STONE

Magnificent Star Sapphire of 70 carats in weight, gray blue color, even texture, and a definite sharp fine 6 rayed star. This splendid gemstone would ideally suit a museum or investor as stones of this caliber are always in demand. Arrangements can be made to view the stone by appointment at our office or it will be forwarded to responsible parties. List price: \$2500.

**Rough Citrine Topaz for faceting:** Excellent for cutting sizes to 100 ct. in several shades. A trial box of 125 gram (625 cts.)—\$10.00.

**Rough Moonstone—Ceylon**—A good blue chatoyant grade, \$.20 per gram. In half- or pound-lot quantities—\$30.00-\$60.00 per pound.

**Onyx Blanks**—red and black—Custom sized to order in all major mm. sizes. 100 pcs. for \$20.00-\$30.00, depending on size. Dealers and Cutters write for quotations in larger quantities.

**Exchange:** Beautiful, flawless round Moonstones for \$.25 per carat in all sizes up to 6 mm. exchanged against cabochon stones. We exchange also faceted Amethyst stones against other faceted pieces and rough Tigereye against all kinds of minerals which are low-priced and attractive in color.

**Diamonds to Dealers:** Our memorandum service on Diamonds allows you to have access to all qualities and sizes for those occasional calls. Write for our price list No. 373.

## H. SUSSBACH & CO.

(Formerly Stephen Varni Co.)

17 MAIDEN LANE

NEW YORK, N.Y.

the tree-like branches cut cross-section exposed growth rings close together with minute cells separating the growth lines. The heart is yellow, with alternating black and yellow rings. When the Primnoa stems are imbedded in a yellowish ivory like matrix, which is much harder, a pleasant effect is obtained, appearing as eyes with sunburst rays. On the other hand when they are cut diagonally, or with the grain, a pleasant surprise comes to view, with chatoyancy of colors—blue-green, brown-gold and the center of the stems yellow. Under ultraviolet light these fluoresce a beautiful green. There are two kinds of coral Gorgone with no ivory-like matrix, or Primnoa, with a superimposed ivory matrix.

A word of caution. In sanding and polishing operations this beautiful gem gives off a burning smell of bone, which

## Lifetime Jewelry Mountings

NOW AVAILABLE TO  
HOBBYISTS AND ASSEMBLERS

over  
Conley's Gold laid (10k 1/20GF)  
Quality mountings designed for Western Gems. 3-color Gold Appliques—  
Heavy engraved outer frames.—Inner Bezel.

Beauty and Wearing Qualities of  
karat gold. Prices within the reach of  
everyone.

Many appealing designs to enhance  
your choicest Gems. PENDANTS—  
BRACELETS — EARRINGS —  
BROOCHES — LOCKETS — TIE  
CHAINS. RINGS 10k and SS Attractive  
satin lined boxes, if desired.

AT YOUR LOCAL DEALER--OR WRITE

**THE CONLEY CO.**

*Manufacturers & Distributors*

Dept. LJ6, 715 W. Riverside, Spokane, Wash.  
DEALERSHIPS AVAILABLE to established  
dealers and manufacturers  
Also finished Montana Gem Agate Jewelry

### 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

is a poison in the form of Chloride Albuminoid. This causes severe pathological symptoms such as dizziness, breathing hard (dyspnea), headache, and nose bleed.

The waste in working this coral is 60 to 75%, but when finally finished it is perfectly harmless and can be adapted to earrings, brooches, pendants, buttons and lapel ornaments. It is beautifully odd and presents a wonderful study of lowly sea creatures who can build such magnificent homes in perpetual darkness.

“To gather Jewels have I come to this World. If one speck of a Jewel lie hid in a Stone, and that Stone be beyond the Seven Seas, until I have found and secured that Jewel, my hand shall not stay from its search.”

Baha'u'llah.

## BRANHAM'S

Tin Cup Tremolite Jade — As Described  
by Richard Pearl in Lapidary Journal  
Jade Number—Pound \$3.50

Beautiful Wyoming Carved Earrings  
of Top Jade-Peony Flower with  
leaves ..... \$10.00 Pair

Beautiful Wyoming Carved Tiny  
Elephant Charms For Charm  
Bracelets—Top Jade ..... \$ 4.00 Each

Beautiful Wyoming Cut & polished  
Jade Cabochons—Top Jade. \$ 3.50 "

Beautiful Wyoming Jade Step-cut  
Cabochons — Embossed in gold  
Chinese Script ..... \$ 4.00 "

Beautiful Burma Jadeite Cabo-  
chons — Almost transparent—  
Green inclusions ..... \$ 3.50 "

Beautiful Burma Jadeite Ring sets  
—Flat Ovals—filligreed .... \$ 2.50 "

Beautiful Tiger Eye Cameos —  
Carved in China — Fine work-  
manship ..... \$ 3.50 "

No order less than \$5.00 please—include  
postage for Tremolite jade. Other items post-  
paid.

We can furnish all kinds of carved jade fig-  
ures—Old Archers' Thumb Rings—Old Chi-  
nese belt buckles of white jade and many  
other jade treasures.

## Allan Branham

Box 562—Lander, Wyoming

Prices Include Tax

We cannot answer post cards. For informa-  
tion write a letter and enclose stamp for  
reply.

# SILICON CARBIDE GRINDING WHEELS

Prices on coarser grits are revised upwards, the fine grits remaining unchanged. Note addition of 600 wheel to our line. 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	\$2.65	\$2.90	\$3.50	
	B	2.80	3.14	3.80	Illinois purchasers add 2% sales tax
	C	2.95	3.39	4.11	
	D	3.10	3.52	4.25	
3/4	A	2.82	3.46	4.15	
	B	3.07	3.76	4.51	Prices F.O.B. Franklin Park, Ill.
	C	3.32	4.07	4.87	
	D	3.45	4.21	5.05	
1	A	3.22	3.95	4.83	8.68
	B	3.50	4.10	5.25	9.44
	C	3.78	4.45	5.67	10.20
	D	3.92	4.80	5.88	10.57
1 1/2	A	4.27	5.28	6.44	12.42
	B	4.64	5.74	7.00	13.50
	C	5.00	6.20	7.56	14.58
	D	5.19	6.42	7.84	15.12

ARBOR HOLE furnished in size desired. PLEASE SPECIFY.

2753 HAWTHORNE STREET

"*Guild*"

FRANKLIN PARK, ILLINOIS

## Oregon Plume Agate

Quality is the far cry in the lapidary field; this agate from the noted vein deposit in Central Oregon is unsurpassed in beauty and variety of design and color; does not undercut and takes a superb polish.

Smoke and Flame Plume Slabs,  
now ..... \$1.50 sq. in.  
Carnelian Plume Slabs ..... \$1.00 sq. in.  
Black and Red Plume Variegated Slabs,  
\$ .75 sq. in.  
Moss Agate, rough, (same vein) in reds  
and dark, ..... \$1.50 lb.  
Moss Agate, excellent rough vug ma-  
terial in red and yellow .... \$3.00 lb.  
Variegated Vein Agate, highly colored,  
\$1.00 lb.  
Wood Casts, Banded, some dendritic,  
\$1.50 lb.  
Cristobalites in Obsidian ..... 25c per ball  
one to three balls in each specimen. Rare!  
Plume, best quality in small chunks,  
\$5.00 lb.  
Add postage for rough material; mini-  
mum on all orders, \$2.00, please.  
Plume Slabs on Approval with \$5.00 de-  
posit and reference.

No Materials Exchanged.

**C. G. SPRINGER**

862 Roosevelt Ave., Bend, Oregon

JEWELERS

STONE DEALERS

COLLECTORS

CRAFTSMEN

You can once more buy Beautiful  
Australian Opal in any quality you  
desire.

Prices are at pre-war level. Commer-  
cial grades from \$1.00 per carat. Gem  
stones from \$2.50 per carat.

Average weight for Cushion, Octagon  
or Oval shapes of 10 x 8mm is 2 carat,  
12 x 10mm, 3 carat.

Black Opal is still scarce, prices too  
high for commercial cutting.

Doublts available in limited quantity.

All stones are cut in our Long Island  
shop.

Sales not for resale are subject to  
20% Federal tax.

**ACE LAPIDARY CO.**

92-32 Union Hall St. Jamaica 5, N.Y.

## \$2000 In Cash Prizes for Gems

The San Diego County Fair will open on June 24th and run for ten days at Del Mar, Calif. As usual, San Diego County gems from the "nation's gem box" will be featured and the management has provided a total of \$1950 for cash prizes for mineral and gem displays shown by San Diego County collectors. While persons outside of the county may exhibit their collections the prizes this year are limited to San Diego County residents. All judging however will be done by non-county residents. The Editor of the Lapidary Journal will be one of the judges of the lapidary displays but the other judges have not been announced as this item goes to press.

There will be a class for San Diego County minerals exclusively; another for California minerals outside of the county; a class for California gold ores; one for minerals outside of California, and another for minerals from one general mining district located anywhere but California. There will be ten lapidary divisions. Scoring will be on a percentage basis on four points — workmanship, quality of material, arrangement and correct labeling. No display scoring less than 85% is eligible for any first prize and second place must score above 69% while third place must score above 49%. Many dealers of lapidary equipment and supplies are engaging space at the fair.

All entries must be in by June 18th. There is no entry fee and inquiries should be addressed to Roy M. Kepner, Superintendent, at P. O. Box 578, Del Mar, California.



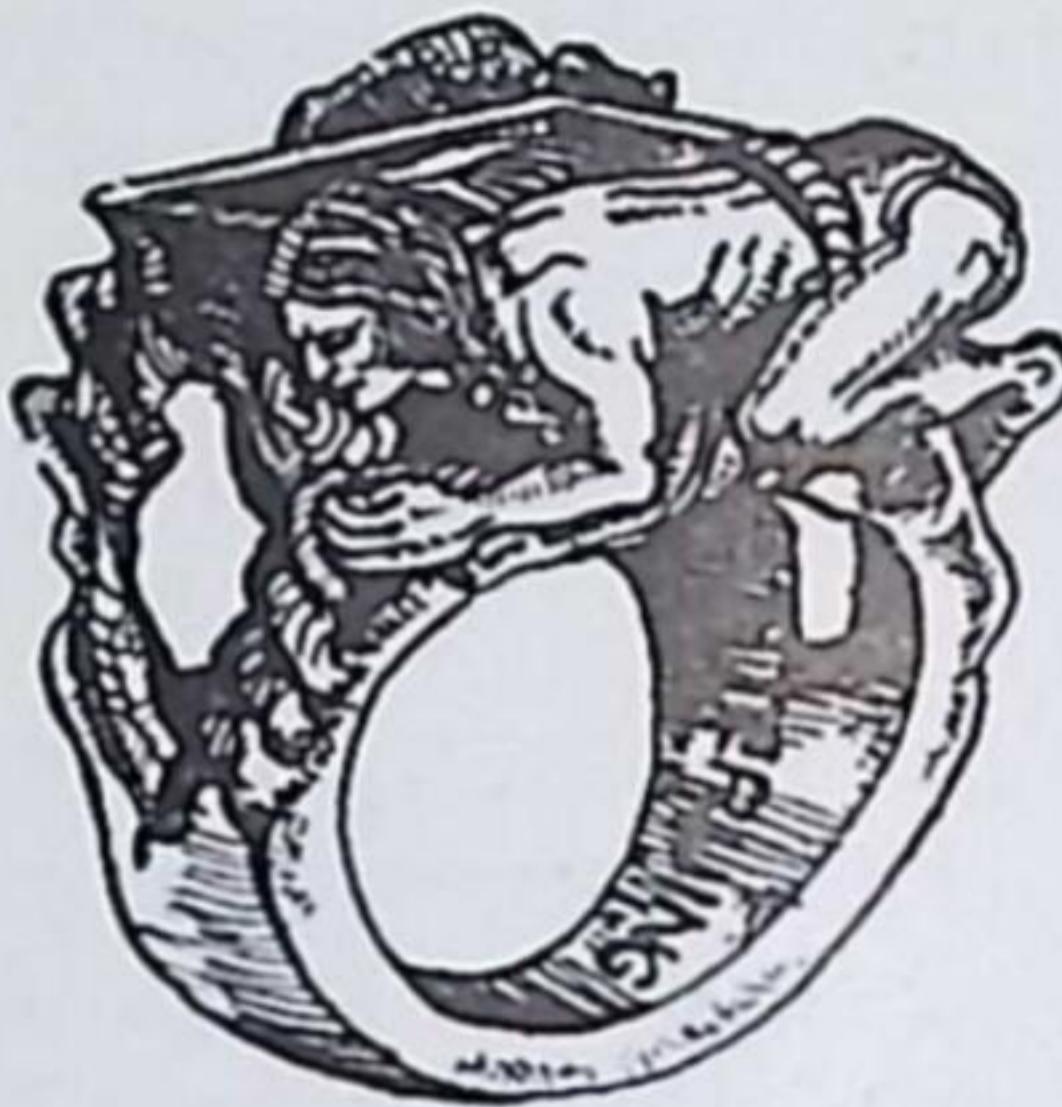
"There's nothing like this at Horse Canyon."

## *Introducing*

### WESTERN MOTIFS IN CAST STERLING MOUNTINGS FOR MEN

INDIAN  
AND  
FAWN  
In Sterling  
Silver  
No. 106

Actual Size  
Price \$6.00



Fine Cast Reproductions  
of Original Hand Carved  
Designs by CYVRA of California

### VISIT OUR BOOTH AT LONG BEACH CONVENTION

SEE THESE AND OTHER  
MOUNTINGS

*All Prices Include All Taxes  
Dealerships Available*

DOUBLE  
HORSE HEAD  
In Sterling  
Silver  
No. 105

Actual Size  
Price \$5.00



*Myco Precision  
CASTING CO.*

424 S. Broadway  
Los Angeles 13, Calif.

MUTual 4568

# ◆ *The Big Conventions*

## DENVER

Before the next issue of the JOURNAL appears the biggest mineral and gem conventions in the history of the world will have been held. The first of them is the First National Convention of the new American Federation of Mineralogical Societies or the "Federation of the Federations." Gems and lapidary work are going to prevail and most of the prominent lapidary equipment dealers and manufacturers have already engaged space.

Over 14,000 square feet of exhibition space has been engaged at the Shirley-Savoy Hotel at Denver, Colorado, which is convention headquarters. The Federation has been set up with five divisions—Geology, Mineralogy, Paleontology, Lapidary, Dealers and Publications. Each Division will have its own program and an attempt will be made during the convention to organize a dealers' association. Dr. Henry Dake, Editor of the MINERALOGIST, will address the Dealers' Division on the subject of "The Value of Mineral Journals" on June 16th. The editor of the LAPIDARY JOURNAL will address the general meeting in the ballroom on the evening of June 16th on the subject "The Second Stone Age." Dr. Ben H. Parker, President of the Colorado School of Mines, will also address that meeting as will the Governor of Colorado.

Elaborate programs have been arranged for the four days. These include trips to the U.S. Mint, Colorado Museum of Natural History, Colorado Bureau of Mines, the State Capitol and many nearby mining communities. Numerous field trips have been planned.

Rich donations for prizes have been coming in from all over the country and the convention will no doubt have more dealer booths than any convention ever held by any of the member Federations alone. Old established firms like Ward's from Rochester and Schortmann's from Easthampton, Mass., will be there as will many of the western and mid-western dealers. Many illustrated programs are scheduled for the various divisions.

The LAPIDARY JOURNAL will have a booth and will offer for sale for the first time the new book entitled "Popular Gemology," now at press and written by Prof. Richard M. Pearl, the Convention Chairman.

Dealers desiring space should communicate with M. F. Wasson, U.S. National Bank Bldg., Denver 2. Collections will be housed in lighted glass cases and applications should clear through Ress Phillips, 1001 Pearl, Denver. Anyone planning to attend should make hotel reservations immediately through Mrs. James B. Greenfield, Housing Chairwoman, 519 17th St., Denver 2.

There will be western barbecues, demonstrations of gem cutting and a selection of varied activities to round out four full days.

## LONG BEACH

The California Federation of Mineralogical Societies, largest of the Federations will hold its Ninth Annual convention on Friday, Saturday and Sunday, July 16, 17, 18 in the Long Beach Municipal Auditorium at Long Beach, California. Long Beach is located about 25 miles from downtown Los Angeles although it is right next door to Los Angeles Harbor. It is on the Pacific Ocean and is a thriving city located in Los Angeles County, the hottest hotbed of amateur gem cutting in the world. Reliable estimates of gem dealers and equipment manufacturers indicate that 30,000 persons in the County have some kind of gem cutting equipment. That's ten times the number of lapidaries there were in Amsterdam before the war!

Visitors to Long Beach (population by a special 1946 census was 241,109 as against the Denver 1940 population of 322,412) will have the opportunity of visiting nearby Hollywood, a section of the City of Los Angeles. Before and after the convention we hope to greet many drop-ins at the new JOURNAL office at 7231½ Santa Monica Boulevard, directly across the street from two motion picture studios.

This will be a convention of ALL rockhounds. "You don't have to be a member

*Announcing . . .*

FIRST ANNUAL GEM EXHIBITION

## GLENDALE

*Lapidary & Gem Society*

JUNE 26 & 27, 1948

SEASTROM BLDG.

GLENDALE, CAL.

Sonora & Flower — North West Corner  
of  
Grand Central Airport

Gems from All Over the World

Demonstrations of  
Gem Cutting In All Its Phases  
*See them cut!!*

*Public Invited*

*No Admission Charge*

The Los Angeles Lapidary Society, Inc.

*cordially invites everyone to its*

## SIXTH GEM SHOW

Long Beach Municipal Auditorium

LONG BEACH, CALIFORNIA

July 16-17-18

10:00 A.M. to 10 P.M.

*(Close at 6 P.M. on July 18)*

This greatest exhibition of the lapidary art ever gathered under one roof is being held with the Ninth Annual Convention of the California Federation of Mineralogical Societies at their invitation.

The Los Angeles Lapidary Society takes this opportunity to thank the Federation for their generosity and commend them for their vision in promoting the lapidary art. We hope that all gem dealers, merchants of supplies and manufacturers of lapidary equipment will be present with their wares for this will undoubtedly be the greatest opportunity they have ever had to reach so many gem cutters at one place and time.

The Los Angeles Lapidary Society has been accumulating newly cut gems for two years for this exhibition. Many new ideas will be shown, much faceted material, a great deal of beautiful jewelry. It is hoped that it will exhibit Donal Hord's famed statue in jade of THUNDER, pictured on the January Jade Issue of the *Lapidary Journal* and which is the largest piece of jade statuary in the world.

A D M I S S I O N   F R E E

# World's Largest Mineral and Gem Show

at the

## NINTH ANNUAL CONVENTION

■ CALIFORNIA FEDERATION  
of  
MINERALOGICAL SOCIETIES

at the

LONG BEACH MUNICIPAL  
AUDITORIUM

Long Beach, California

July 16-17-18

*Friday and Saturday — 10:00 A.M. until 10:00 P.M.*

*Sunday 10:00 A.M. until 6:00 P.M.*

THOUSANDS OF GEMS

THOUSANDS OF MINERAL SPECIMENS

GEM CUTTING MACHINERY IN ACTION

TONS OF GEM AND MINERAL MATERIALS FOR SALE

*A full program every day of speakers—movies—demonstrations*

ADMISSION FREE

### SPECIAL NOTICE TO DEALERS AND EXHIBITORS

Space is going very fast. Get your reservation in now to avoid later disappointment. Address all communications to convention chairman, 1850 E. Pacific Coast Highway, Long Beach 8, Calif.

of a mineral society at all to attend and exhibit. If anyone has any material to show we will find a place for it if we have to build an addition to the Auditorium," writes Chairman Roy Wagoner.

In addition to the many thousands of mineral and fluorescent specimens that will be displayed there will be the largest collection of cut and polished gems ever gathered together under one roof. For in addition to the thousands of gems that will be displayed by Federation societies and individual members there will be the Sixth Exhibition of the work of the Los Angeles Lapidary Society, first and largest lapidary society in the country. This display is by special invitation of the Federation. The Los Angeles Society, under the chairmanship of Clarence Chittenden, is engaged in building 80 special glass showcases to display the members' late work, done over the last two years since they displayed at the Los Angeles County Museum of History, Science and Art.

This display of gems and jewelry is worth traveling to the ends of the earth to witness but add to it the gems of all the other societies in the County and then those of the more than a hundred societies in the State, and you can understand the statement that this is widely advertised as "the world's largest mineral and gem show." The situation permits no argument.

We may be disappointed but we have reasonable assurance that THUNDER, the largest jade statue in the world, pictured on our January Jade Issue, will be on exhibit and we are endeavoring to secure a faceted brilliant of the newest and most dazzling gem in the world—synthetic rutile—described in Grant Waite's article in this issue.

The Editor will conduct a round table discussion of lapidary procedure, acting as moderator for a panel of experts who will answer any question on the lapidary art. The JOURNAL will also have its special booth at which copies of every issue will be for sale and subscriptions will be taken. We will be next to the booth of the MINERAL NOTES AND NEWS and there will be a combination offer of the two publications made for convention visitors only.

Almost every important dealer will have a booth there and there will be constant demonstrations of all the leading lapidary machines. With a population in the county now pushing the four million mark an attendance of 30,000 is expected during the three days so that dealers who pass up the convention are guilty of bad judgment. Lapidaries who do so are just plain nuts, unless they live more than a day's journey away. In spite of the anticipated crowds there is ample room for the convention is being held in a mighty big place. BUT—be smart! Go in the morning hours when you can see more. On Friday and Saturday the hours are from 10:00 a.m. until 10:00 p.m., but on Sunday they are from 10:00 a.m. until 6:00 p.m. and that means 6 p.m., for all exhibits must be out of the building by midnight. Ample ambulances are being provided to haul the dealers to the nearest sanitariums after the convention closes. They are expected to drop from exhaustion for business will be *that* good.

## ARIZONA

Agates, Jaspers, Petrified Woods, Chrysocolla, Blue Agate, Malachite, Azurite and others.

Rough, Sliced, Chips, Preform Cabs., or Polished Specimens.

Polished samples \$2.00  
Unpolished samples \$1.00

*Write for List*

**ARIZONA AGATE MINES**

CAVE CREEK

ARIZONA

## Sagenite Agate

From the NIPOMO fields and ledge

Slabs 25c to 75c per sq. in.

Heels according to area and quality

Small rough specimens, 2" & 3", \$1.00  
Each

All types of cutting, mounting and repairing at reasonable prices. Mountings, silver, findings, gems, minerals and cutting material.

WRITE FOR OUR PRICE LIST

**Gordon Bowser, Lapidary**

119 Beebe Street, San Luis Obispo, Calif.

# TIN OXIDE AGAIN

We expect the arrival of a limited shipment of tin oxide very soon. Orders are now being taken for delivery in approximately 30 days. Reserve your needs now. Price \$1.75 per pound plus postage (and sales tax on California orders).

## LAPIDARY GRINDING WHEELS

Size	100	220	320
6 x 1	2.90	3.20	3.60
8 x 1	4.30	4.80	5.40
8 x 1 1/2	5.75	6.45	7.20
10 x 1	6.10	6.80	
10 x 1 1/2	8.40	9.40	

## FELKER DI-MET DIAMOND

### BLADES

#### Standard Thickness

4"	—	\$5.52	10"	—	\$10.44
6"	—	5.52	12"	—	15.30
8"	—	7.98	16"	—	22.68

PLEASE SPECIFY ARBOR HOLE SIZE ON ABOVE PRODUCTS

★ ★ ★

Our catalog is obsolete. We are now revising it and a copy will be mailed to all who place their name on file and those whose names we now have. Drop us a card now.

*Hickerson Supply Company*

1557 Arlington Ave.

Los Angeles 6, Calif.

## SEMI-PRECIOUS STONES

FROM

BRAZIL

*Large stock of*

**Black Onyx and Sardonyx  
Amethysts, Aquamarines  
and Topazes in our New  
York office; standard  
sizes; Minimum order of  
onyx is one gross.**

★

**SIMAB CORPORATION**

160 Broadway  
New York 7, New York

*Golden Primnoa*

*or  
Gorgone*

## NEW GEM FROM ALASKA

Suitable for lapel pin or for pendants.  
Unusual item for collectors.  
Polished pieces are approximately 1x1".  
No two shapes alike.  
With each order I will give a liberal  
supply of petrified wood. This wood  
is black with white dots and mineral  
inclusions. Enough for several caboch-  
ons. Makes beautiful crosses.

Price \$5.00 for the lot postpaid

**Alaska Lapidary Service**

Baranof, Alaska

# ◆ *An 8000 Mile Gem Collecting Trip*

PART THREE (Conclusion)

By HAL E. PEARSALL

224 So. 19th St., San Jose, Calif.

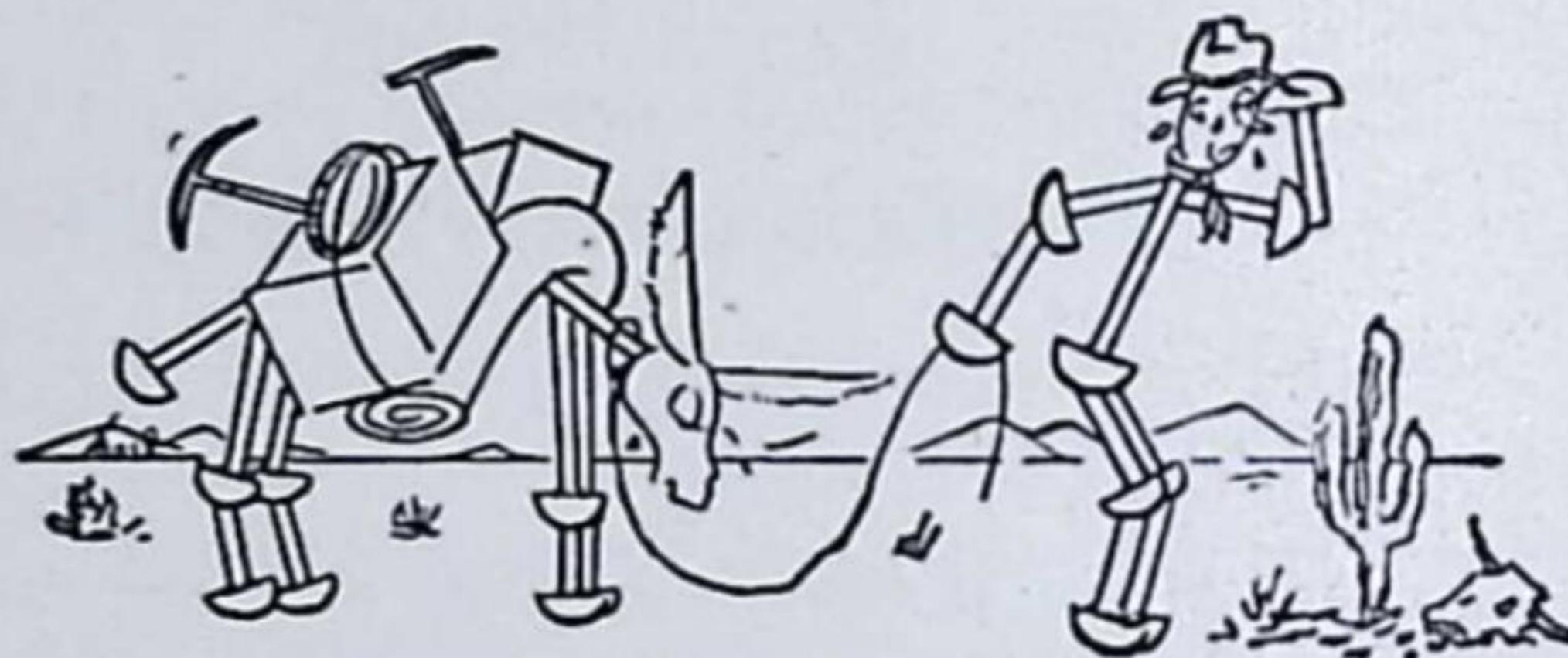
Member of San Jose Lapidary Society

We drove from Three Forks on through Logan, Manhattan, Belgrade, and into Bozeman in hard rain. This stopped some of our side trips in this area. If one drives off the main roads into some of the canyons in bad weather he is apt to come to grief unless he has chains. As we had none we stayed on the paved or gravel roads. Anyone wishing white petrified wood will find a nice variety, with a possibility of "pictures," 6 to 8 miles south of Logan. At Manhattan there is a cabin court on the highway with a large rock garden in front. The owner will direct you north across the Gallatin River to a canyon for calcite onyx and slabs of shale with dendritic manganese fern pictures. They are pretty and we found some nice ones.

Our next camp was at the Yellowstone Camp Grounds in Livingstone. Despite rain we drove out of town about 5 miles and hunted along the river banks and side hills, finding petrified wood, agates and jaspers. When we returned to the campgrounds Russell Fahlgren, who is in charge of it, gave me two large pieces of iceland spar that was mined east of Livingstone near Springdale.

We were getting ready to leave town when we met Charlie Miller, a friend we'll remember for a long time. He works as a stone cutter and polisher at the granite monumental works on the highway in town. He said we could not leave town without coming to his home, 1½ miles east of town, to see his polished collection. We were easily persuaded as he said there was plenty of room on his 10 acre ranch for us to camp. He and his wife are most hospitable people. We were very thankful for an excuse to prolong our stay.

The next two days Charlie took off



from work in order to go rock hunting with us. Our wives put up a lunch and filled our canteens and we drove south toward Gardner, swinging to the right across the Yellowstone river to the Tom Miner Basin. We came to the end of the road at the timber line and parked the car. Charlie said "Do you see the top of the mountain across there? That's where we are going if you want to find some of the petrified wood I showed you back home." We said, "Come on, what's holding us back!" Away we started with high hopes and full of pep. This settled down to real work for the next 4½ hours and I mean work. We crawled, stumbled and fell over fallen lodge pine in pretty thick timber, up and ever up, frequently passing fresh elk and moose tracks. We saw a huge bear pawing a stump for grubs on a hillside. Rockyflo said, when we reached the top at an altitude of 9000 or more feet, "Mother will never believe us, when we tell her we climbed this high!" As we neared the top of the ridge we started counting the petrified logs. There were more than a hundred before we quit counting. Gosh, what a rockhound's paradise and such scenery! We ate lunch and then started filling sacks and pack-sacks. We already had full pockets. We noticed one petrified tree stump of red-

## Brazilian Adventure!!

1/2 pound clear quartz  
1 "Four Stone" Carnelian Slab  
1/2 ounce Amethyst for cabochons  
1/2 pound rough agate

All for \$3.00 postpaid



50c ea. - GEM BLANKS - 50c ea.

Alaska Jade - Wyoming Jade  
Siberian Jade - Carnelian



\$1.00 ea. - PREFORMS - \$1.00 ea.

Burma Jade - California Jade  
Labradorite - Orbicular Jasper



### WANTED

Rare and odd colored Jades in any size. Will trade cut stones of all kinds for above.

**ROBERT TESMER**

4400 Pearl Rd.  
Cleveland 9, Ohio

## MAGNI-FOCUSER BINOCULAR EYE LOUPE



Model No.	Focal Length	Actual Power	Price
#5*	10"	5D	\$ 8.50
#7	8"	7D	8.50
#10	4"	10D	10.50

\*Popular model

California residents add 2 1/2% sales tax

MINERAL SPECIMENS  
CUTTING MATERIAL  
NOVELTIES & GIFTS

*The Sterling Shop*

8679 Castro Valley Blvd.  
(Calif.-U.S. Highway 50)  
P.O. Hayward, Calif.

## Gem Collectors

### ATTENTION

#### Why not specialize in a Moss Agate cabochon collection?

We have a "starter set" of 6 beautiful California cabochons (all different) containing moss and sagenite—\$4.00 postpaid. We have moss agates from everywhere. Name your wants and we will quote prices.

## Valley Crafts Shop

DON C. METZGUS, Prop.

14135 Oxnard Street Van Nuys, Calif.

## *Spider Web Turquoise*

A new Nevada claim is yielding some good nodules which are easily cut into attractive ring sized cabochons. This is the first time since 1940 we have been able to offer this very desirable variety of turquoise. A sample sack 25c. Preforms 75c and \$1.00 each. Pound prices to cutters on application.

### SEE OUR EXHIBIT

Denver, Colo., June 13th-16th

Gem Village, Colo., June 19th-20th

Durango, Colo., August 7th-8th

Our 1948 catalog offers rough, preforms and slabs of nearly 200 varieties of gem material. Also books, magazines and supplies of all kinds for the amateur.

Catalog Free if You Mention the  
Lapidary Journal

## THE GEM EXCHANGE

(Gem Village)

BAYFIELD, COLO.

wood. This was a very dull gray color and measured ten feet across. I took a small slab of the outer edge of it in order to show the curvature of this huge tree. We now started the real job of climbing downhill with a load. We all had as much as we could handle. I won't tell you how many times we fell down and stopped to rest but we were a sorry sight when we reached the car more than 5 hours later. Our backs and legs were sure sore the next day.

Charlie and I left our wives home and dropped back again the next day, picking up another rockhound about 65 years old. The three of us hunted and found, on another ridge north of the basin, a deposit of staurolite crystals or crosses in mica schist.

Charlie gave us some of his other rocks which made up quite a box of fine material to send home. This and two others I packed made 315 pounds shipped from here. We gave our best thanks to the Miller family before leaving for Billings, our next overnight stop.

The next day we found moss agates on a hill a mile south of Huntly and then drove on to Custer and camped. We searched the nearby hill for a couple of hours and found more moss agates and wood. Here we got acquainted with Steve and Barlow Dunbar. They gather moss agates for sale. I exchanged a few with them.

Two miles east of Forsyth, at the mouth of Slaughter House Creek, we made camp at Mom and Pop's camp grounds. Here we endured more drizzly rain. Although we got our feet and shoulders wet it did not stop us from searching and finding moss and other agates. These are generally found on the hillsides and dry washes, among the numerous low hills of this area. We had been told to go up this creek 8 or 9 miles for the best hunting but due to the rain and the road being graveled only for four miles we were unable to reach the right place.

We shipped four boxes of agates from Forsyth, Montana and retraced our tracks back to Custer, turned south on a graveled road to Hardin. Here we had a paved road on route 87 to Ranchester, Wyoming. We camped at the beautiful Connor Battlefield Park.

As a crossing of the Big Horn Mountains is quite a climb we were up early

the next morning. When we crossed the Big Horns in 1933 they were working on the roads and the summit was 10,070 feet. Now it is only 9,050 to the summit of the pass. It had snowed six inches the day before and it was very cold and a heavy wind was blowing on the top of the mountain. What a wonderful sight as we rolled on down to Shell, Wyoming, in the valley below.

Stopping about five miles out of Shell, I searched a couple of the rocky hillsides and picked up five fair sized dinosaur gizzard stones. A collector had told us to hunt up Mr. H. Timmel, a collector of marine fossils, at Greybull. We met him in a restaurant next to the hotel where he resides. After introductions we were invited to his rooms to see his collections. He has over 1000 of the gizzard stones and many varieties. Among them was beautiful petrified wood with a waxy luster. I showed him the ones I had found that morning. He singled out one with fossil sea shells showing on the surface about the size of rice kernels. He showed us pictures of this species of fossil shell and told us their name was *Triticites Ventricosus*, of the Pennsylvania age. He said it was worth quite a bit.

From Greybull we followed route 20 south. Between Worland and Thermopolis we found some moss agates on both sides of the road. We took a picture of the largest hot spring in the world at Thermopolis. I would like to have a stalactite from this marvelous spring.

We camped in a canyon, half way between Thermopolis and Shoshone, beside the Big Horn river. Mr. Simondson is building a new service station here. He told us to hunt for petrified squid six miles south in the red dykes on the right side of the road. Two miles further on we found fossil leaves on the left side of the highway.

From Shoshone we followed Route 320 to Lander. On Saturday we started for Rawlins about 10 o'clock, driving through 120 miles of desert with no towns between. A bearing burned out on our left trailer wheel about ten miles out of Lander. We couldn't get off the highway very far as a steep bank arose on our right. We jacked up the trailer, dismantled the wheel and spindle, left the trailer, and drove back to Lander. We hunted through the wrecking yard with

## UNUSUAL FACETED GEMS

*including:*

PINK ANDALUSITE  
HESSONITE  
GREEN APATITE  
IOLITE  
BRAZILIANITE  
SPHALERITE  
GREEN ANDALUSITE  
CHRYSOBERYL  
SCHEELITE  
RED SPHENE  
PHENACITE  
SCAPOLITE  
BENITOITE  
GREEN SPHENE  
WINE TOPAZ  
YELLOW SPODUMENE

*Descriptions sent on request*

**EDWARD R. SWOBODA**  
220 West 5th St., Rm. 804-A  
Los Angeles 13, California

### GEM TRANSFER BLOCK



The features of this block insure the precision dopping and transfer of facet gems. Will handle any shape. Dop sticks with formed ends are unnecessary when using this block.

Price postpaid in U.S. \$5.50  
Precision Tool Steel Dop Sticks  
3/16 or 1/4 inch, six for \$1.50

**SPECIAL EQUIPMENT CO.**  
2900 El Roble Dr.  
Los Angeles 41, Calif.

### *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  
12 YEARS' EXPERIENCE

**GRAHAME HORTON**

Box 105

Wecoma, Ore.

MONT. MOSS AGATE.....90c lb.  
RED & BLACK  
(some shows 3 flow) ..... 75c lb.

VARISCITE—(extra fine)  
\$2.00 to \$6.00 lb.

FLUORESCENT MINERALS  
(only the best) ..... up to \$1.50

*Headquarters for Mineralights*

MODEL "H" CARRIED IN STOCK  
Minimum order \$2.00 and please send  
postage. Surplus will be returned. Satis-  
faction guaranteed.

### LAKELAND MINERALS

HAYFIELD, MINN.

### OREGON GEM STONES

Agates \$1.00 to \$2.00 per lb.

Jasper, asstd. colors, 50c lb. up

Jadeite \$2.00 lb.

Medfordite \$1.00 lb.

Montana Agate \$1.00 to \$5.00 lb.

Rough Minerals 25c each and up

RX Lapidary Unit complete

Cutters' supplies

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

### SOUTHERN OREGON MINERAL EXCHANGE

Santos Agate Shop  
411 East Main St. Medford, Oregon

### HAND MADE STERLING SILVER MOUNTINGS

Your design or ours  
No need to send your stone, a template or  
drawing will do.

**THE SILVER SMITHS**  
Box 76, Fernley, Nevada

### SWEETWATER AGATES FROM WYOMING

Fluoresces Green  
15 for \$1.00 100 for \$5.00

PLASTIC RING HOLDERS

6 on a bar \$1.50, two bars \$2.75

THE BLACK HILLS

AGATE & GEM SHOP

Rapid City, South Dakota

Fine Brazilian Carnelian and Star Rose

Quartz. See the middle spread of

**GORDON'S**

no luck; tried several garages but no Model "A" wheel bearings could we find. Boy, we were up against it! One man told us not to leave our trailer on the edge of the highway after dark or we would have everything stolen from it. Now we were really worried! On top of that a storm was brewing and the wind was blowing hard.

About 5 o'clock we were told there was another auto wrecker who had been in business a short time. Our spirits perked up a mite as we drove to his place. Mr. Speyer, the owner, was unable to find any bearings among his wrecks so he telephoned a rancher who might have one. He told him he would look and call him back. We waited and waited with our hearts in our mouths.

Just then there was a terrible crash outside. The wind seemed to yank at their new, partly finished office and living quarters. We nearly had the door jerked out of our hands. As we went outside, we could see several huge trees about seventy-five feet high lying across the road. The town lights were out. We returned to the office and tried the 'phone again but it was out of order. Mr. Speyer said, "Come on, we'll drive out to the rancher's home." It was 4 miles north over a rough road. We found the place and God bless him, he loaned us the wheel and bearings from his wood-sawing machine. We promised to return them and for this we were very grateful.

We stopped at the office again and told our wives the good news. It was after ten o'clock and the wind was still blowing hard. I wondered if the trailer had been blown off the highway or the other wheel stolen. Speyer said, "I'm going to see you through. Let's go after your trailer and bring it back here tonight." I told him he was a real friend in need. As we rounded a bend in the road and saw the trailer was O.K., I breathed a sigh of relief. We put on our borrowed wheel and returned to Lander and the wrecking yard. Because of the bad wind we didn't dare raise the canvas sides of our trailer more than 18" at one end for fear of their being torn off. We took our shoes off and crawled into bed. During the night the wind stopped and it rained a bit. At last I fell asleep thinking the storm was over. When I raised the canvas the next morning, I saw 2" of snow on the ground. Brrrrr!! I

crawled out in the cold and raised the top and started the lantern and stove going before the sun was up. A little later that morning Speyer phoned some more and found a lady who owned a partly dismantled model "A" coupe and she sold us a bearing. At last we were prepared to continue our trip, after returning the borrowed wheel with many thanks.

Rockyflo said, "Wasn't that a nightmare?" I said, "the next time we make a trip we'll carry spare wheel bearings or stay home." All this trouble was caused by the shearing off of a cotter pin.

It was almost noon when we left Lander again. We crossed the Sweetwater river and stopped to talk to Mr. Peterson at the "Home on the Range" service station. He exchanged a few rocks with us and gave us directions to the Sweetwater moss agate beds. He told us to drive 6 2/10 miles towards Rawlins and take the washboard road directly north for 9 miles to Murphree's ranch. The agate beds are through two corral gates and two miles beyond. We camped next to the corrals at Murphree's with his permission. I asked him about jade. He told me he had sold a 90 pound chunk of jade for \$2700 to a Chinese in San Francisco a short while before. He would not say where he had found it but he had some other jade he wanted to sell. I thought of our cash balance, which at this time was about \$30, and said, "not right now." You have to be a millionaire to buy that stuff. We went to sleep dreaming about jade, the green stuff that looks like money but can't be folded.

We were up early the next morning and drove out by the windmill. Scouting around in the sage dotted flats, we found about two quarts of those sweetwater moss beauties before heading for Rawlins.

We went as far as Rock Springs to camp that day. At Wamsutter we asked a station attendant where the turritella fossil beds were. He told us they were about 33 miles south. But my sparring partner said, "Haven't you had about enough collecting for one trip? Let's go home." So we didn't hunt for turritella.

We left Rock Springs for Little America. Just 37 miles, on the left side of the road, we picked up about 30 pounds of

fine moss agate. We passed quite a few places that looked as good before we stopped to investigate.

At Little America we took route 30N to Kemmerer to look up Mr. Haddenham. He was building a garage on the highway for someone else. When we told him of our hobby, he threw down his tools and quit work to take us to see his fossil fish. He said that for the past 45 years, he had been mining these fish near Fossil, Wyoming. He showed us pictures of his claim and specimens of fish hanging from the rafters in his house. There is a lot of work cleaning the stone away from the bones with tiny sharp instruments. And it is back-breaking work to get through 40 feet of solid rock to a layer a foot thick which has these fossils in it. I bought a half dozen specimens from him to work on when I got home. I think every rockhound should have one of these remarkable curios in his collection.

We covered a long desert stretch on route 189 past Evanston, Wyo. and on to Castle Rock, Utah., where we stopped overnight. From here on we followed the shortest road to Salt Lake City and shipped our last two boxes of rocks home. They weighed 220 pounds. After this we took route 40 west, across the great salt lake desert to Wendover, Nevada. Here we camped in town near a railroad switchyard and the next day we drove through Elko to Winnemucca. We decided not to hunt for any more rocks on this trip.

But you know how it is with collecting. This decision only lasted about three miles out of Winnemucca. A sign on the left side of the road, near a bridge, read "Rocks for Sale." Of course we stopped. Bill Squires and Mrs. Pearly Henderson own two mines and have some fine "Wonder Stone" onyx and pigeon-blood agate as well as other ore.

That was really the last rock we collected on this wonderful trip. There were lots of detours and bad roads going to Lovelock and beyond toward Fernley. We then had fine paved roads through Reno into Roseville, California. This was our last camp before reaching home in San Jose the next day, September 28th, just 13 weeks and a day after our start. We covered 8200 miles of rock adventuring, giving us memories for years to

come and a hankering to go on future collecting trips.

I sincerely hope this story will give much needed information to persons planning rock trips in the future or to those wishing to get in touch with other collectors to trade specimens. Nearly all of the persons mentioned in the foregoing story will gladly trade with you.

#### ADIOS, AND GOOD HUNTING

##### AMETHYST CRYSTALS

Mexico

Gem terminated crystals, deep purple at the base tapering to almost clear at the point. Crystals average 1 1/2" long and 1/4"-3/8" at the base. Nice for facet work. 50c each. A few twin crystals 75c, postpaid.

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

##### IF YOUR HOBBY IS—

Silver Craft • Lapidary • Rockhound  
send 6c in stamps for price list  
Silver—Tools—Books—Mineralights  
RX Machines—Allen Lapidary Equipment  
Prest-O-Lite and Lapidary Supplies

THE SILVER MINE  
908 N. Ave. 54 Los Angeles 42  
Dept. C California

##### THE UNUSUAL IN:

Agates, etc. Custom Jewelry Work.

##### TREASURE TROVE

Crater Lake Hiway  
22 miles from Medford

Shady Cove Oregon

Western Agates, Woods, and Minerals  
Lapidary equipment and supplies at regular  
advertised rates

Agate jewelry, wholesale and retail  
Custom cutting and mounting of your stones  
Prices and literature sent on request

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

##### 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.

Check on that new red fluorescent  
material in the middle spread of

GORDON'S

## ◆ *Beginners Page*

Just as we sat down to the typewriter to write this page the mail man brought J. Daniel Willems' new book, just off the press, which is simply called "Gem Cutting." It is just that—a book on how to cut and polish gems; divided into almost exact halves on cabochons and faceting. It is a *good* book on the subject and while no book is ever going to give ALL the information or be all things to all people this book covers the subject for beginners better than any we have seen.

Before the book came we had been lost in thought about the BEGINNERS PAGE. "This has to be good," we thought, "because someday it is going to be a chapter in a book we'll publish on gem cutting. And we hope that it will be useful to the raw beginner and written so clearly that he will have no trouble at all in understanding it." The book arrived during this process of thinking and we got right into it. It wasn't long before it dawned upon us that this was exactly the kind of a book we hoped to write, exactly the book for the beginner. This page has appeared in the last four issues of the JOURNAL and if you read the first few chapters of Willems' book it must dawn on you that they say the same thing. After all we are talking about the same thing.

No sooner did we tear ourself away from the book than delivery was made on our new faceting outfit. And so there we sat, as raw as the rawest "beginner" in the land. We have never faceted a gem. We have never faceted principally because we have never been particularly interested in faceted stones. Individually we are entranced with them but collectively what have you but a lot of dazzling color? A collection of faceted gems does not have the character (for us) that a collection of cabochons has—but they sure do look "perty." However we have long felt a moral obligation as a publisher of a gem cutting magazine to meet the challenge that faceting offers so that we could discuss it intelligently. And so we are determined to turn out as fine a collection of faceted material as possible for our whole line of thinking has changed.

These thoughts are mentioned only because we suddenly needed more information on faceting than is contained in any of the books in our quite extensive gem library. Willems' book has it. It isn't going to tell us all we'll ever need to know about faceting but we can make a fine beginning with Willems' information. Willems has long been known for his Willems' Faceting Device, an improvement on the old jam peg method of faceting. His information is built around his own device of course but still it is adequate for any type of faceting device for the information is fundamental.

There is no information in this book about novelties, geodes, flats, hearts, crosses and all the other ramifications and sidelights of gem cutting and polishing. But it does cover cabochon cutting and faceting in 224 well illustrated pages, just about equally divided between the two subjects. Willems covers cabochon cutting in seven chapters. He covers sawing, rough grinding, dopping, finish grinding, sanding, polishing and undropping in that order. After telling quite thoroughly all the things you should do he winds up every chapter with a list of things you *shouldn't* do. The lists of things one shouldn't do is worth more than the price of the book (\$3.50) and the book should be in the library of every *experienced* gem cutter for that reason.

This book does not outmode the earlier books on the subject by Howard, Baxter, Dake et al. A serious gem cutter should have them all for each contains a lot of knowledge that is not in Willems' book and "knowledge is power." We merely emphasize that Willems' book is *another* good book for the gem cutter but particularly for the beginner. There is one chapter at the end of the book that is a blessing

indeed to us for it will save us miles of letter writing by merely passing the buck. When correspondents write hereafter and ask "how do I start and what do I need" they'll just get a postal reply stating "read the last chapter in Willems' book 'Gem Cutting' which gives in detail the *absolute minimum requirements for a beginner's shop.*"

Another new book about to make its appearance is Professor Richard Pearl's "Popular Gemology." We haven't seen a copy as this is written but we do know that all gem materials are classified under the new Seventh Edition of Dana's *System of Mineralogy* and that every gem material is classified according to the most appropriate style of cutting—facet or cabochon. We emphasize again that gemology is not gem cutting. Gemology is a word loosely bandied about by the hobbyist. Gemology is the study of the *science* of gems. Obviously a gem cutter should know something about his materials for one important gem that is saved through proper knowledge of its characteristics may be worth more than the price of the book that gives the knowledge (in this case \$4.00). But more about Mr. Pearl's new book later.

The appearance of these two books almost simultaneously is indeed fortunate for they go together like frankfurters and mustard. Both books will be for sale at the JOURNAL'S booth at the Denver and Long Beach conventions or they can be ordered immediately through the JOURNAL office now.

## Glendale Gem Show

An outstanding array of fine examples of the lapidary art will be placed on public display by the Glendale Lapidary and Gem Society, Saturday and Sunday, June 26th and 27th. The exhibit will be held in the new Seastrom Building, now nearing completion on the corner of Sonora and Flower Streets in Glendale.

This is the first exhibit presented by the Young Glendale society and every effort is being expended by President Dan White to offer a truly representative display of finished gem stones, specimens of material and craftsmanship.

Commercial dealers will have a section of the building in which they will display and demonstrate the latest equipment used in this art and offer for sale many new and beautiful materials.

The exhibit will be open from 10:00 AM until 9:00 PM on Saturday, June 26th and from 9:00 AM until 7:00 PM Sunday, June 27th.

No admission is to be charged and every effort will be made to provide for the comfort and pleasure of all visitors.

One of the features of the exhibit will be a flawless, silver rutile quartz sphere six and a quarter inches in diameter. This is believed to be the largest of its kind ever shown on the Pacific Coast. Elmer Horner, member of the society, owner and maker of the sphere, places its value at \$5000. The sphere will be multi-color illuminated for the exhibit.

Doug Macdonald is the Chairman, assisted by the following sub-chairmen: H. G. Kirkpatrick, Displays; L. W. McClure, Grab Bag; Polly Holland, Hostess; Loren Foote, Lighting; Lee Lingard, Publicity; Henry Hodge, Professional Displays.

### ANNOUNCEMENT

The Lapidary Journal Is Now Prepared to Supply Your Needs on All Books on Gem Cutting, Silversmithing and Gemology

THESE NEW BOOKS FOR SALE AT OUR BOOTH AT  
THE DENVER AND LONG BEACH CONVENTIONS

**GEM CUTTING by Daniel Willems.....\$3.50**

**POPULAR GEMOLOGY by Richard M. Pearl \$4.00**

MAIL ORDERS NOW BEING FILLED  
California purchasers please add tax

*Note—Mr. Pearl's book will be published on or about June 1st.*

**LAPIDARY JOURNAL, INC.**

P. O. Box 1228

Publishers

Hollywood 28, California

## ◆ General Gem News

The really big gem news this time is not found in this column but in an article by the editor on page 92—entitled "New Lapidary Marvels." If you missed it you will find it really contains great news.

\* \* \*

John P. Scott has opened a new gem store in San Diego at 5029 Newport Av. He specializes in foreign and San Diego County materials, both finished and rough.

\* \* \*

Mrs. Saint E. Swain is gathering a list of interested persons for the formation of a lapidary society in Houston, Texas. If interested, address her at 2112 Wheeler, Houston 4.

\* \* \*

The oldest amateur gem cutting machine in the United States will be on exhibit at the Denver convention as part of the historical exhibit of the Colorado Mineral Society, the host Society. It was constructed before 1895 by Burton O. Longyear, retired Professor of Forestry at Colorado Agricultural College. He made it of wood so that it could be held on the knees while traveling and turned by hand.

\* \* \*

C. B. Branson recently opened a museum and lapidary shop in Chandler, Ariz. Among other things he displays the original of the coat of arms of the last King of Hawaii.

\* \* \*

Nearly a million dollars worth of diamonds have been stolen from lapidaries during the uprisings in Palestine. 2500 lapidaries are out of work and the insurance rate on diamonds has risen from 1 to 12 per cent.

\* \* \*

It is interesting to note that the jewelled jade chess set pictured on page 200 in our January Jade Issue was made by Lathrop G. Hoffman, one of the sons of Paul G. Hoffman, the newly appointed director of the European Recovery Plan.

\* \* \*

More than 2000 visitors attended the Tri-City Gem and Mineral show presented at the Riverside County Fair Grounds under the auspices of mineral and gem societies from Banning, Blythe, and Coachella, Calif.

Turquoise is becoming increasingly scarce. A Tonopah lapidary has orders on hand for 30,000 cabochons and is unable to locate satisfactory material.

\* \* \*

The cut diamond exports from Holland for 1948 are more than 50 per cent behind 1947 for the same period.

\* \* \*

"IS THERE JADE IN IDAHO"? is the title of a very interesting and provocative article that recently appeared in *The Sundial*, a very fine publication edited by Julian Field of Payette, Idaho. It regularly carries much gem and mineral society news.

\* \* \*

GEM VILLAGE, near Bayfield, Colorado, will hold its 4th Annual Rock Show, Saturday and Sunday, June 19th and 20th. Admission, exhibit and dealer space is free as usual. The Village will entertain the Southwest Caravan of collectors, leaving after the National Convention in Denver June 17th (as it passes on its way to Mesa Verde National Park near there.) Being on a direct all paved route between Southern California and Denver it welcomes all who expect to attend the National Convention. Use Route 160 in either direction.

\* \* \*

The House of Jade (Santa Barbara, Calif.) recently unloaded 22000 pounds of fine jade from the Arctic Circle. W. R. Kelley writes, "we had a line of men from the trucks to the storage place and we passed the boulders to each other like a bucket brigade. It was a little hard on the hands as the boulders ranged from 200 pounds up to 3000. Two that really strained the weaker boys weighed 5600 and 8000 pounds. But we were really just warming up for the next load which includes a 12000 pound pebble."

\* \* \*

Bert Rhoads, pioneer jade dealer of Lander, Wyoming, is constructing a new establishment on the town's main street. He expects to be in it by June 1st.

\* \* \*

Gates Burrell and Roy Gravatt have registered 158 in evening lapidary classes at Selma and Parlier High Schools (Calif.) with an average attendance of 43. There is also a day class of 25 at Selma.

# NOTICE!!

## SAN FRANCISCO BAY AREA RESIDENTS

Call and see my new stock of choice cutting materials including Texas plume agate, Brazilian carnelian, Tigereye and many others. Also see two outstanding bargains, Perry Trim saw units at \$24.50 and Poly 3/4" Grinder arbors at \$17.50.

### You can always rely on Carborundum Company products

Now in stock—diamond saw blades, grinding wheels, sanding cloth and abrasive grain—all Carborundum brand products.

6" Diamond saw blades \$5.52	12" Standard blades \$15.00
8" Diamond saw blades 8.00	14" Standard blades 17.00
	16" Heavy duty blades \$22.68

### FACETING EQUIPMENT AND SUPPLIES

"The Facetteer"—Complete outfit \$115.00

"The Facetteer"—Head and stand \$50.00

Diamond charged 8" laps \$12.00

*Please Note—A misprint was made on this item in the April Issue quoting it at \$50*

### CABOCHONS

Choice cabochons for collectors or for jewelry making. New stock of

Wyoming Jade 14mm rounds \$1.75—18/13mm ovals \$1.85

Russian Lapis 14mm rounds \$2.00 — 18/13mm ovals \$2.25

## Kane's Lapidary & Supply

W. J. KANE

1651 Waller St., SKyline 2-0500

San Francisco 17, California

### Chrysoprasus

Equivalent to that found in the Ancients' tombs and referred to in the Book of Revelations.

In every color of the spectrum. Very hard and polishes beautifully.

We are offering opaque slabs for \$1.00 each (6" minimum). Slabs containing small translucent areas—\$3.00 each. Some 2" slabs for bookends — \$15.00

Offerings by the carat of faceting material in various shades of green, greenish-blue and blue will be made as soon as authoritative identification is made by authorities as to whether this material is Nephrite, Jadeite, Bowenite, or Sapphirine.

**ALL TAXES AND  
POSTAGE PREPAID  
ON A MONEY BACK  
GUARANTEE**

*None Sold to Dealers*

**THE MINER**

BOX 2251, MAIN P.O.  
SAN DIEGO, CALIFORNIA ..

### IMPORTED ROUGH GEM MATERIAL

**Zircon**

**Amethyst**

**Moonstone**

**Garnet**

**Peridot**

**Fire Opal**

ALL AT MODERATE PRICES

We specialize in Australian Fire Opal. Try our \$8.00 parcel. Refund if not pleased.

ONLY GEM STORE IN SAN DIEGO OPEN ALL DAY

*Write for free list*

**SCOTT'S**

5029 Newport San Diego 7. Calif.  
Open daily except Sunday

## ♦ *Shop Helps*

If you have found a useful short-cut in your shop send it in. We will give you credit. The most skillful craftsmen, as well as beginners, find this department useful.

Melvin Kathan of Portland, Oregon, mounts cabochons on slabs of white cardboard by making a small loop of scotch tape (glue out) and then he presses the gems to the card. He prefers plastic coated white paper when he can get it. This type of mounting permits easy removal and replacement.

Kathan also advises that he finds stick shellac much faster and better than wax and some types of cement for dopping. It is cheap and easily obtained at paint stores. In grinding and sanding a gem, handle it gently until it is warm. This assures better sticking qualities as heat makes the shellac tacky. Stones dopped with shellac are easily removed with a knife blade. (Shellac is used in the dopping process mentioned on page 94 of this issue.—Ed.)

Eldon Moore of South English, Iowa, writes that he uses a length of 1/8" bronze welded rod for template marking on slabs in preference to an aluminum pencil. A bronze pencil can be obtained at garages and machine shops. The advantage of the bronze is that it is harder than aluminum; marks can be seen as well but stay on longer and they can be made closer to the template edge.

Margery Serafine of Miami, Fla., has made her own faceting laps out of pieces of ordinary inlaid linoleum and phonograph records. She has one for each polishing material and keeps each lap filed in large manila business envelopes.

The SEQUOIA BULLETIN suggests that the lazy man with no conscience at all can make his own fluorescent rocks by merely spraying them with fluorescent paint.

In my visits to many lapidaries I have found that the greatest helps and time-savers I have picked up are the ones that seemed so obvious to the man using them that he thought they were universal knowledge. Therefore I know that the commonest details are indeed brand new to many. For instance many people reading this page do not know that a grinding wheel must be wet to keep a stone from cracking and while anyone acquiring machinery finds that out before he touches stone to wheel yet I feel that many amateur lapidaries do not know the following simple but helpful items.

"Rough up" a worn sanding disk by dipping a rag in water and "washing" the cloth with a circular motion. This spreads the grits from the center to the outside and doubles the life of the cloth.

Put your tin oxide in a large sifter can or a restaurant size salt shaker.

Use pieces of old inner-tubes to steer the water on the wheel and control the drip.

Cut your own templates out of celluloid blotter tops or pocket calendars; use an aluminum pencil for drawing them on cabochon blanks. Use acetone to erase unwanted designs on the blanks.

Save the grit from the grinders in your splash pans for rough lapping on your lap wheel.

Make home-made cabinets for sawed materials out of cheese or cigar boxes, using spools for handles.

# Oregon Agate

DIRECT FROM THE

## FAMOUS PRIDAY AGATE BEDS

*The Beds Are Closed to Visitors*

Last year we opened up a new bed of Nodules which have beautiful markings. Some have waterfalls, lakes and all sorts of scenes. These are suitable for making Paperweights, Novelties or any kind of jewelry. The material is very hard and takes a high polish.

10 Lbs. \$3.50, 50 Lbs. \$15.00, 1 Ton \$400.00.

We have been selling societies ton lots. Why not promote a deal for your society?

Large size Nodules cut and polished \$1.00 per half.

Large size Nodule, cut, polished and mounted on a beautiful Myrtlewood block \$1.75 each, or we can furnish you with blocks at 80c each and you can do your own mounting.

## PLUME or FLOWER AGATE SLABS

\$10.00—\$15.00—\$20.00—\$25.00 per slab.

Small slabs for ring sets, \$3.00 and \$5.00.

Large Dinner Ring Plume sets ready made \$5.00.

Ladies' solid gold Dinner Rings, Plume sets \$15.00 plus \$3.00 tax.

PLUME HEARTS, \$12.00—\$15.00 and \$20.00 plus 20% tax.

Brooches. with plain or rope bezel, gold, \$20.00 and \$25.00 plus 20% tax.

## SURPRISE PACKAGE

Send us \$5.00 and we will send you a package. If upon arrival you do not think it is worth \$10.00, return it at our expense and with every 100th order on this, we will send you free one of our best rings.

*All orders F.O.B. Madras, Oregon*

## PRIDAY AGATE BEDS

R. H. Blanchard, Operator

Madras, Oregon

## ◆ *Answers to Inquiries*

NOTE—This department should become one of the most important sections of the LAPIDARY JOURNAL in future issues. 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 Victor C. Graham, Omaha, Nebraska.

A friend has promised me a bench with a top "inlaid" with small polished rock specimens. It would seem simple to place the specimens polished side down and within a frame of appropriate size and depth and upon a large flat surface. Pour in some binding material into the intervening spaces, "screed" down to frame depth to give a perfectly flat surface. Let it set completely, invert the slab to prepared flat base on bench and screen all the edges with hard wood strips. *But*—what kind of plaster is dark enough to withstand discoloration and hard enough to withstand wear and feather chipping at the edges?

Reply by William T. Baxter, Bethesda, Md.

Experiment first with "stone", as it is commonly called in the dental field. This is a cement used in making models of teeth from an impression taken by the dentist. Partial plates, dentures etc., are then modeled upon the positive, using wax, etc. and then cast. This "stone" comes in 5 pound tins at a low price. It can be tinted by using dry water coloring powder. The "stone" is made under several trade names by dental supply manufacturers and it can be obtained from a dental supply house, of which there is one in every fair sized city. Your own dentist can help you; perhaps supply a little for experimentation. Mix with room-temperature water using about 35 or 40 parts to 100 parts of powder and it will set in less than 15 minutes. It has a slight expansion in setting and a compression strength of about 5000 pounds per square inch after several days. Keene's cement, available from builders' supply yards, can be colored and should be satisfactory. I use the "stone" for cementing agate handles in silverware and letter openers and it really holds. The table would be better with metal strips and metal braces running crosswise.

\* \* \*

Inquiry of Sam Payson, Calexico, California.

My saw carriage enters from right to left when slabbing. That generally means the right side of my diamond saw does more work than the left side does. Most saws are marked with an arrow showing the correct way of rotation. Now, if I find the right side of my saw wearing faster than the left, why not reverse my saw? In the past I have generally waited and there apparently was no diamond left on the right side, thereby causing the blade to become dished.

Reply by Lapidary Journal.

We know Sam well. He could be guilty of pulling our leg. In such event we would tell him that his saw wears out on the right side because north of the equator a whirlpool runs one way (we forget which) while south of the equator it runs in the opposite direction. Therefore, if he takes his saw blade south of the equator it will be O.K. On the other hand, Sam may be serious; so we call his attention to the fact that the diamond bort is embedded in the rim of the blade at angles. If he reversed the blade it would only embed the bort deeper into the rim, instead of exposing it, and soon the blade would not saw at all.

\* \* \*

Inquiry of C. J. Parsons, El Cajon, California.

Can you tell me if there are schools available for diamond cutting, lapidary work and jewelry repair, including setting.

Reply by Lapidary Journal.

In this issue there are advertisements appearing for three different schools; one on the West Coast, one on the East Coast, and one in the Mid-Continent. In addition

to this, there are schools in gem grinding and silvercraft at evening high schools in almost every community north of the "deep south." Many small communities also are well equipped for teaching the art.

\* \* \*

Inquiry of Mabel A. Richardson, Scottsdale, Arizona.

I would appreciate your advising me as to equipment which will best suit the circumstances I describe. Although I have read most of the books, and subscribe to various lapidary and mineral magazines, I have actually had very little experience in cutting stones. I want to cut cabochons and facet and set some of these stones. If possible, I would like to make my basic income from faceting and cabochons—sort of a bread and butter basis of eventual individualized jewelry. What faceting equipment would you advise? Also, whose horizontal or vertical cabochon machinery, and are sintered diamond or carborundum wheels best? Etc., etc.

Reply by Lapidary Journal.

It seems to us that too many people miss the great point of amateur gem cutting. We promote it as a recreation and self-expressive art and hobby and not as a means of livelihood. If some one becomes so proficient that they turn an avocation into a vocation it is a testimonial to his initiative. However, there are too many people approaching gem cutting and silvercraft with the idea of making a little bread and butter money. They make a few gems and jewelry pieces for friends and collect no federal luxury tax or state sales tax and pay no business license fees. They are the thorn in the side of people who are making a career and livelihood from the craft. A person in business has to pay rent, taxes and all the other overhead, and they should get at least \$15.00 for a good silver ring set with almost any kind of a stone. On top of this, they must collect sales tax and 20% Federal tax. What chance have they when they must compete with a neighbor who makes and sells a ring for \$5.00 or \$6.00 and collects no taxes at all?

Of course, the Journal can offer no comment or advice about the equipment advertised in these pages. We do not follow a practice of *caveat emptor*, but we exercise every reasonable precaution to exclude advertising of questionable character, doubtful materials and bad equipment. Similar inquiries come to us almost daily but we never offer any definite advice in these matters.

**SUBSCRIPTION RATE** ..... \$2.00 per year (6 issues)

**LAPIDARY JOURNAL**

P. O. Box 1228

Hollywood 28, California

## Montana Agates

We have another supply of good cutting agates and can sell you agate from the best Montana fields at just about any price you want to pay. Small, but good color, some spots, \$1.25 lb. Good color and spots, larger and sounder, \$2.00 lb. Fine ribbons and spots, \$3.00 lb. Choice ribbon and scenics, \$5.00 lb. Preform cabs of good Montana agate—up to 1," 50c; up to 2," 75c. Drilled hearts, \$1.50. State sizes. Select sawed slices in five and ten dollar packages. Money back guarantee. All prices F.O.B. Rollins. No orders under \$5.00 please. No C.O.D.

## FLATHEAD HOBBY MUSEUM

Home of  
"The Fairy Palace of Gems"  
See it on your trip to the Denver convention  
Highway 93 Rollins, Montana

BEFORE YOU BUY ANY LAPIDARY EQUIPMENT—Send for our **BIG, FREE 1948 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"

# News of the Societies

SAN FERNANDO VALLEY MINERAL & GEM SOC. (Van Nuys, Calif.) recently conducted a field trip to the Mint Canyon area for sagenite, rutilated quartz and agate. They also had a field trip to Tick Canyon in March for bloodstone.

\* \* \*

SAN GORGONIO GEM & MINERAL SOC. (Banning, Calif.) recently traveled to Sunrise Canyon for petrified palm wood and jasper. "Barney" Barnes of the Gift Corral at Palm Springs addressed the society on "Agate" at a recent meeting.

\* \* \*

GEM CLUB, INC. (Boise, Idaho) SNAKE RIVER GEM CLUB (Payette and Weiser), OPALENE MINERAL SOC. (Marsing) and the OWYHEE GEM & MINERAL SOC. (Caldwell) held a joint banquet at Caldwell.

\* \* \*

LONG BEACH MINERALOGICAL SOC. (Calif.) recently viewed colored slides of its own geode beds, named the "Wagoner Beds" for its President, Roy Wagoner, who led in locating them. Located in the Black Hills, the deposit was staked as a claim by the society so that there would be an area which all societies could visit.

\* \* \*

GEM STONE COLLECTORS OF UTAH (Salt Lake) recently witnessed an illustrated talk on gem cutting and gemstones given by Alfred M. Buranek, State geological official. Mr. Buranek showed 125 slides on all phases of gem cutting.

\* \* \*

AMERICAN GEM SOCIETY (Northern Ohio Guild) heard Dr. Glenn C. Tague of Western Reserve University offer a lecture on "Origins, Properties and Varieties of Beryl" at its March meeting. Members brought their rough and polished specimens of some of the rarer beryl varieties, such as morganite, golden beryl, heliodor etc. The large collection of books on gems and jewelry belonging to the late Roy Hoover was auctioned at a recent meeting. Dr. Tague's lecture in May was "Organic Gem Materials: Pearl, Coral, Amber and Jet."

\* \* \*

CHEROKEE GEM AND MINERAL CLUB (Cherokee, Calif.) organized last November with 12 members, now has 36. Rose Churchman is Secretary and meetings are held in the school house on the 2nd Friday.

\* \* \*

TUCSON GEM & MINERAL SOC. recently sponsored an exhibition of the Oracle School Rock Club collection held in the auditorium of the school. More than 700 children viewed the exhibit. The collection won first prize at the Arizona State Fair, competing with 31 similar school collections, and it was awarded a plaque by the Phelps-Dodge Corp. A. L. Flagg, father of the "school rock club" idea in Arizona, came from Phoenix to deliver a talk. Junior

mineral and gem activities are a part of the life of nearly every community in Arizona.

\* \* \*

ORANGE COAST MINERAL & LAPIDARY SOCIETY (Corona Del Mar, Calif.) recently heard Herbert Monlux in a talk on the proper shaping of cabochons for use in jewelry. Monlux, a member of the Los Angeles Lapidary Soc., has won many ribbons with his own large collection of perfectly shaped gemstones. He was assisted by Jack Gaston, President of the Los Angeles group.

\* \* \*

JUNIOR ROCKHOUNDS (Prescott, Arizona) recently conducted a study of the State's many varieties of petrified wood under the guidance of Eddie Pope, vice president.

\* \* \*

DONA ANA COUNTY ROCKHOUND CLUB (New Mexico) has been conducting study sessions on quartz and the "glassy" minerals or obsidian types.

\* \* \*

HOLLYWOOD LAPIDARY SOC. (Calif.) has appointed Walter Shirey as chairman of its first gem show. Lapidary equipment has been demonstrated at recent meetings by Wm. Hickerson of Hickerson Supply Company and Mr. and Mrs. Rogers of R & B Art Craft Company. Past President Ronald MacCorkell has been experimenting with the coloring of gemstones by X-Ray irradiation and radium. He showed the interesting results at a recent meeting.

\* \* \*

SEARLES LAKE GEM & MINERAL SOC. (Trona, Calif.) had a two day field trip to Death Valley. The Society recently presented a check for nearly \$700 to the local community Chest.

\* \* \*

GEM COLLECTORS CLUB (Seattle) has limited the number of people in their lapidary classes to ten couples for better efficiency. The May meeting of the group was held at the home of Lloyd and Lulu Roberson who have a wide reputation in the Northwest for their very fine lapidary and jewelry work.

\* \* \*

ORANGE BELT MINERALOGICAL SOC. (San Bernardino, Calif.) reports that they now have a paid-up membership of 231. "So far as I know," writes Pres. Erna Clark, "This is the largest society in California and it is one of the oldest." (The San Diego Soc. is right on their heels with a paid-up membership of 214 on May 1st). They are planning another fine gem and mineral show in the Fall. Dr. Warren Fox of Riverside was elected President at the May meeting.

\* \* \*

WISCONSIN GEOLOGICAL SOC. (Milwaukee) heard Prof. Wm. W. Schideler of Carroll College, Waukesha, speak on "Trials and Tribulations of a Geology Professor" at its April meeting. He was assisted by his students in skits dramatizing classroom experiences. The meeting is reported to have been highly instructive and enjoyable. The Society's annual spring banquet was held on April 10th and they made a field trip to the Museum in Chicago on May 1st. Phil Wiegand delivered

the annual lapidary lecture on May 3rd. His subject was "Jade Carving and Polishing" and he gave actual demonstrations as well as showing his extensive collection.

\* \* \*

SAN DIEGO LAPIDARY SOC. enjoyed Gladys Hannaford's diamond lecture at its April meeting. Several societies enjoyed this lecture this year but many more were disappointed. (If you want the lecture next year write the JOURNAL now and we will place your name in our file and see if we can work out a schedule for Mrs. Hannaford's 1949 West Coast trip.—Ed.)

\* \* \*

MARQUETTE GEOLOGICAL SOC. (Chicago) had three other societies present as guests at their May meeting. They were the WISCONSIN GEOLOGICAL SOC., the JOLIET MINERALOGISTS and the CHICAGO ROCKS & MINERALS SOC.

\* \* \*

SEQUOIA MINERAL SOC. (Fresno, Calif.) is going to have two cases of their best mineral and gem specimens at the Long Beach convention in July. Societies not receiving their "Sequoia Bulletin" should arrange an exchange as the Bulletin is always enjoyable and informative.

\* \* \*

CHICAGO ROCKS & MINERALS SOCIETY'S always interesting bulletin "The Pick and Dop Stick" had very good articles on malachite and the diamond in the April issue and on the emerald in May. They were addressed on May 8th by Dr. David Monach on silversmithing methods.

\* \* \*

SAN JOSE LAPIDARY SOC. (San Jose, Calif.) clocked 4968 visitors at its 3rd annual gem exhibition in April. 74 lighted glass cases, built and owned by the Society, were arranged in four "islands" distributed over 9000 square feet of exhibition space. Each visitor was given a beautiful brochure, about the size of a copy of the JOURNAL, which told how gems are cut and listed the name of every gem displayed. The main feature of the show was the special case built for transparencies. The Society paid all expenses and came out about \$200 ahead by selling advertising in their 44 page program. Charles Murphy was elected President at the May meeting.

\* \* \*

NORTH LINCOLN AGATE SOC. (Nelscott, Ore.) will hold its 6th Annual Agate Show on July 16-17. There will be an admission charge of a dime to defray expenses. (Good!! Ed.)

\* \* \*

NEBRASKA MINERAL & GEM CLUB has a unique title for its publication — "The Rear Trunk."

\* \* \*

N.O.T.S. ROCKHOUNDS (Inyokern, Calif.) held an extensive exhibit of minerals and polished gems on April 17-18 in connection with the Annual Desert Wild Flower Show. There was much jewelry by members and nearly 2000 gem items displayed. The most spectacular piece was a lamp and shade made of agate, quartz and calcite slabs by C. V. Sanford.

\* \* \*

OKLAHOMA MINERAL & GEM SOC. (Oklahoma City) has a fine publication called the "Sooner Rockologist." At their May meeting each member was required to bring his favorite

stone and tell why it was his favorite. That is a fine program idea for other societies to follow. The Society will celebrate its second anniversary on June 6th.

\* \* \*

GRAND JUNCTION - MINERAL SOC. (Grand Junction, Colo.) will entertain Denver convention visitors with a well planned two-day field trip program for people on their way west after the convention. Trips will be made to interesting mine, fossil and gem locations on July 17-18. Interested persons can get the itinerary by writing Mrs. Richard Fischer, Box 555. The Society had a three day exhibition of gems and minerals early in May.

\* \* \*

THE STATE MINERAL SOCIETY OF TEXAS held a very successful show at Austin on April 17-18 at which Dr. Vernon Bryant of McKinney received most of the first prizes in the lapidary divisions, including the Grand Prize, for his reportedly fine lapidary work. J. J. Brown was re-elected President. Peter Zodac, Editor of ROCKS AND MINERALS was the featured speaker at the Society's luncheon.

\* \* \*

LOS ANGELES LAPIDARY SOCIETY will hold its Sixth Gem Show at the convention of the California Federation of Mineralogical Societies at Long Beach, Calif. in July. (See announcement on page 106 and article on page 105). Sam Waagenaar gave an illustrated lecture on diamond cutting at the April meeting which followed Gladys Hannaford's famed lecture on the diamond itself at the March meeting. Jessie Chittenden displayed various types of gem display set-ups at the April meeting. The new gem cutting slides on all phases of gem cutting (by Willems), which the Society recently acquired, were shown to a record attendance at the May meeting at which Ted Schroeder was elected President. These slides are available to other societies.

\* \* \*

THE SOUTHWEST MINERALOGISTS (Los Angeles) held a very successful show on May 1st and 2nd with more than 3000 visitors in attendance. The public evidenced keen interest in the gems and minerals displayed under the chairmanship of Walt Shirey, who is now engaged in planning the first show of the HOLLYWOOD LAPIDARY SOCIETY.

\* \* \*

FEATHER RIVER GEM & MINERAL SOC. (Oroville, Calif.) held an open forum on the characteristics of gem stones at its first March meeting. The second meeting consisted of discussions of lapidary equipment and gem cutting methods. At the first April meeting President Bush spoke on fluorescent and phosphorescent rocks. The April 23rd meeting heard a complete discussion of the article "Howlite for Novelties" which appeared in the last JOURNAL. The Society has appointed Alma Hogge, 685 Pomona Ave., Oroville, phone 949-J as Secretary of Public Relations and tourists going through Oroville should contact her for information about the surrounding country etc. Adeline Rankin is Secretary of the Society but it is not secretary of the CHEROKEE GEM & MINERAL CLUB as previously reported.



SAN DIEGO MINERAL & GEM SOCIETY heard a lecture on the Romance and Historical Background of Gems by Arthur Jessop, local jeweler, at its April meeting. Society President Ralph Salsbury is instructing the lapidary classes at Horace Mann Junior High School. For an extended report of the Society's lapidary activities see article in this issue entitled "Kipp's Shop" on page 68.

#### NEW SOCIETIES

JADE & JASPER CLUB (Ketchum, Idaho) was formed in April. Interested persons should address the club at Box 758.

\* \* \*

MARICOPA LAPIDARY SOC. (Phoenix, Arizona) was formed in April with Ray Feist (Stardust Gem House) as Pres. This was reported in the last issue as the proposed Phoenix Lapidary Soc.

\* \* \*

ROGUE MINERAL & GEOLOGY CLUB (Grants Pass, Ore.) is the name of a new society organized on January 30th with an initial attendance of 26. Dr. E. C. Macy was elected President and Arline Sims, proprietor of The Hodge Podge Shop, was made Secretary-Treasurer. Membership is open to anyone in the area. Interested persons should consult the Secretary at Route 4, Box 284. "The Society will probably include the word 'Gems' in its title," writes Mrs. Sims.

\* \* \*

GEMOLOGICAL & TRADING SOC. (Passaic, N.J.) was recently organized. Correspond with John J. Stewart, 565 Main Ave.

\* \* \*

LAKE SUPERIOR MINERAL SOC. (Bayfield, Wis.) was organized in the Spring.

\* \* \*

COLUMBINE GEM & MINERAL SOC. (Salida, Colo.) was organized on March 16th with 20 members from Salida and Poncha Springs. Regular meetings are on the 1st and 3rd Tuesdays in the schoolhouse in Salida (7:30 p.m.) and Peggy Perry of Poncha Springs was elected president.

\* \* \*

Other new societies organized this year are: CURRY COUNTY MINERALOGICAL SOC. (Gold Beach, Ore.); ROCKOLOGISTS' CLUB (Livingston, Mont.); HOT SPRINGS COUNTY MINERAL SOC. (Thermopolis, Wyo.); MILE HIGH ROCKS & MINERAL CLUB (McCall, Idaho); and the THREE RIVERS MINERALOGY CLUB of Richland, Wash.

Read about that Covington saw in  
the middle spread of  
**GORDON'S**

- New beauty in collections
- Instant identification
- Faster analysis
- Uncover new wealth

SEND FOR  
BULLETIN  
LJ 200



MINERALIGHT does all this with such ores as Scheelite, Uranium, Mercury, Zircon, Hydrozincite, Willemite, and many other minerals and materials. See these completely portable lamps at your MINERALIGHT DEALER. 12 models from \$12.50 up.

*UltraViolet* PRODUCTS, Inc.  
5205 Santa Monica Blvd., Los Angeles 27, Calif.

Visit the booth of the  
**Lapidary Journal**  
at both  
**DENVER**  
and  
**LONG BEACH**  
**CONVENTIONS**

Subscriptions will be taken  
and all back issues will be  
available for 50 cents each.

Volume One complete \$1.85  
(FOUR ISSUES)

I WANT TO MEET AS MANY  
OF MY FRIENDS AND SUB-  
SCRIBERS AS POSSIBLE.

Lelande Quick,  
*Editor and Manager*

RATE — 5c PER WORD PER INSERTION

MINIMUM SPACE \$1.50. 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.

JEWELRY BUILT BY DE HART—Send stones and information for free sketch and estimate. DE HART JEWELRY, 215 North Rodey, Albuquerque, New Mexico.

ARIZONA ANDRADITE GARNETS — Olive green Crystals in groups,  $1\frac{1}{2}$ "—\$1.00; 1"—50c. Vanadinite Crystals on matrix, 2"—75c; 1"—35c. THE AGATE SHOP, 1006 Ash Street, Globe, Arizona. (On Hi-way 60-70).

THUNDER EGGS—Filled with blue agate. Size of oranges. 25 lbs., \$8. 100 lbs., \$27. CUTTING MATERIAL in the rough. Assorted mosses, jaspers, woods. Gem quality, 10 lbs., \$5. MELVIN L. KATHAN, 11 S. E. 78th Ave., Portland 16, Oregon.

AUSTRALIAN OPAL rough, rejected for gem cutting. Can you use it? Should make good practice cutting or possibly a few good cabs. Small pieces \$0.60 & \$1.20. ACE LAPIDARY CO., 92-32 Union Hall St., Jamaica 5, New York.

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

SHELLCRAFT—Sea Shell earring set boxed, worth \$1.00. Material to make 12 more sets, shells, scales, discs, earscrews, tweezers, cement and instruction book \$2.50. MRS. SEDWICH, Box 881, Bradenton Beach, Florida.

CUSTOM BUILT SPECIMEN CABINETS built to YOUR specifications. Send us a sketch or drawing for FREE ESTIMATE, with no obligation. DEAN ARTS, 20700 Lake Chabot Rd., Castro Valley, Hayward, Calif.

WANTED—A \$5000 a year party for partner in VETERAN'S GEM SHOP. Too much business for me to handle alone! Box 516, Salt Lake, Utah.

AGATE—When in Central Oregon this season see my collection of PLUME and MOSS AGATE. Reasonable prices. Also sold by mail order. Phone 13F22. H. E. CAREY, Prineville, Oregon.

GEM COLLECTOR wants UNUSUAL examples of POLISHED GEMS to add to extensive collection. Submit full description and price wanted for ANY TYPE of CABOCHON or FACETED gem to COLLECTOR, c/o LAPIDARY JOURNAL, Box 1228, Hollywood 28, Calif.

DIAMOND BLADES. First quality, selected from surplus stock of our largest manufacturer. We have 500, 10 x 5/8 arbor, heavy duty. Your choice STEEL or BRONZE. New blades 5 for \$12.50. Recharged, like new, 5 for \$10.00. Full 2 ct. prewar bort in each blade. Mailed postpaid. GUILD, 2753 Hawthorne St., Franklin Park, Ill.

WANTED: A GOOD transparent gem of EUCLASE, AXINITE, EPIDOTE, HIDDENITE and WILLEMITE. Will buy outright or trade for unusual gems from my collection. Correspondence with advanced collectors invited. E. A. JOACHIM, 1710 Inverness Ave., N.E., Atlanta 6, Ga.

PETRIFIED WOOD from SADDLE MOUNTAIN. 25c pound—postage extra. Polished petrified wood paper weights \$1.00 each postpaid. GILBERT C. MORGAN, Smyrna, Wash.

500 WONDERFUL worldwide rocks and minerals. A RARE BARGAIN LOT of specimens for SCHOOLS, STUDENTS, PROSPECTORS and COLLECTORS. Details from E. R. HICKEY, Sr. 2323 S. Hope St., Los Angeles 7, Calif.

DIAMOND POWDER—Buy direct from diamond cutter. Diamond powder for cutting and drilling, \$1.50 per carat. Diamond chips for carving, drilling, etc., \$2.50 per carat. Small chipped diamonds—very useful for mounting as sidestones, \$1.00 up. I am discontinuing supply of gold mountings and wedding rings. SAM WAAGENAAR, 7268 Sunset Blvd., Hollywood 46, Calif. GRanite 7758 and GRanite 1230.

ZIRCON, loose, 1st quality. Pure white. Special: 3 Zircons approximate total weight 3-cts. \$6.40. We can supply Zircons in all sizes and mountings of all types. Send order or write for details today. B. LOWE, Dept. LJ, Holland Bldg., St. Louis, Mo.

JEWELRY STONES removed from rings, etc. 100 assorted, \$2.40. 50 large stones, \$2.40. B. LOWE, Holland Bldg., St. Louis, Mo.

GENUINE ZIRCON—Diamond Brilliant Siamese gems. Stand diamond acid test. Diamond-facet cut. Three brilliant, unmounted stones, approx. 3-carats, special \$6.00 postpaid. Order today. Will mount in gorgeous rings at popular prices. ZIRCON SALES, 1003-A Locust, St. Louis, Mo.

# Gems From The Mail Bag

The JOURNAL is a particularly fine publication. *Aubrey E. Horn, Bukuru, Nigeria.*

\* \* \*

I wouldn't want to miss one issue of the JOURNAL. It is the most instructive and entertaining publication in the field of lapidary that is published anywhere in the country. The issue on jade is a treatise on that subject and I value it highly. *Walter N. Lamore, San Francisco.*

\* \* \*

I might say sir that I believe the JOURNAL has done more for the lapidary hobby in one year than other publications have done in ten. *Robert Tesmer, President, Cleveland Lapidary Soc.*

\* \* \*

Although the infant JOURNAL has not yet reached maturity, we can tell by bone structure, vitality and healthful skin texture that this is one baby that will survive the rigors of our modern age. *J. L. Jones, Seattle.*

\* \* \*

You have created an outstanding publication on the lapidary art—JUST what we lapidaries needed. *Wm. J. Mills, Riverside, Calif.*

\* \* \*

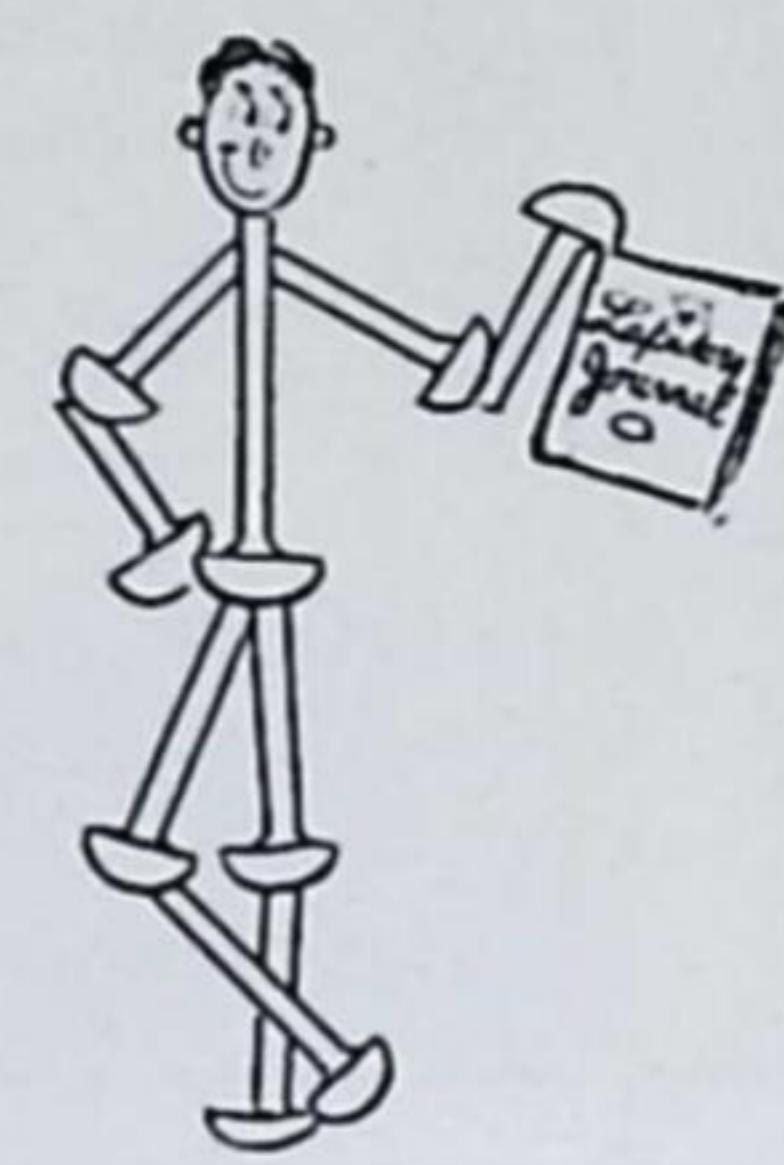
I want to compliment you on your artistic dotted "i" in the word "lapidary" on the cover. That faceted gem hits my sense of something lovely — it's just right! *Erna Clark, Pres., Orange Belt Mineralogical Soc.*

\* \* \*

I used to be just another housewife and was so bored I could scream—and then I became interested in gem cutting. No one here in Miami can offer any answers to my problems. Your JOURNAL is the answer to a nation's prayer. Keep up your wonderful, helpful work! I've already written to 22 of your advertisers. *Margery Serafine, Miami, Fla.*

\* \* \*

The JOURNAL has far exceeded my wildest expectations and I always look forward to each issue. I want to thank you for all the enjoyment I've received to date. *Richard C. De Witt, Albuquerque, N.M.*



Your magazine is highly esteemed by our members. *Vernon E. Lontz, Pres., Evergreen Rock Club, Seattle.*

\* \* \*

With no intention of "soft soaping" you I want to say that for the lapidary the JOURNAL is a mighty fine publication. My primary interest is jewelry making. There was only one article in the July issue. I thought I would not renew my subscription until articles on jewelry making appear more often. *Elbert J. Amarantes, San Jose, Calif.* (Is he serious? The JOURNAL has never been published without a TOP silver article by a TOP writer. Did he miss that October article on agate and silver tableware that made that issue the most popular we ever published? It has sold more copies than the Jade Issue. One of the finest silvercraft articles ever to see printer's ink was the snowflake article in the Jade Issue. And people all over are trying their skill with Jean Bennett's idea in the last issue. The JOURNAL is more interested in fresh ideas than in republishing elementary information available in many good books. The article on casting in this issue is indeed a top jewelry article.—Ed.)

## MISSISSIPPI RIVER AGATE Superior

Small sizes of field run that have passed through 1" mesh screen

65c a pound — 5 pounds \$3

Try our sawed cabochon blanks  
\$1.25 a dozen

Labelled assortment (including jade)  
and all good.

Please add postage

MOORE LAPIDARY SHOP  
South English, Iowa

## Keweenaw Thomsonite

### Really Different

Every nodule will cut flawless ring size cabochon. Pink and Green Colors predominate. Some show bright copper flecks after cutting. Price 75c an ounce—Postpaid.

### KEWEENAW AGATE

Where else can you find as many colors and varieties of pattern and type as in these 1 and 2-gem size beach pebbles? Carefully selected to give as wide a variety as possible in each pound. Price \$2.50 a pound—Postpaid.



ONLY  
THE  
BEST

AHMEEK, MICH.

VIOLET L. LUOMA  
Manager

SATISFACTION GUARANTEED  
OR YOUR MONEY REFUNDED

### PROOF OF

# Streamliner

### QUALITY



Dr. Henry Andrews of Washington University, St. Louis, Mo., says, "Our two Streamliners have given excellent service and we find them very satisfactory." Geo. Neff of Neff's Agate Shop, Spokane, Wash., says, "We recommend the Streamliner. Ours run 8 hours a day, year in, year out." And, Earl Shaw of Yermo, Calif., says, "I have used Streamliners for 12 years. They are built to last." Get a Streamliner and you'll have the best in diamond saws. For ease, simplicity and dependability of operation the Streamliner is the leader. Send for folder.

**HYATT**  
**LAPIDARY EQUIPMENT CO.**  
Box 366      East San Diego 5, California

## AUSTRALIAN OPALS

DIRECT FROM AUSTRALIA



Beautiful Boulder Opal Specimens  
Thousands Now Available

### BLUE — GREEN — RED

In Brown Rock

1" Specimens 25c and 50c each  
Large Sizes 2" to 4" or better  
Qualities,  
\$1.00, \$2.00 to \$10.00

Send \$15.00 (minimum order)  
For Nice Selection, Postage Paid



### CUTTING OPAL

Green and Fire Opal  
From \$2.00 per ounce

### BLACK OPAL

Rough Faced Black Opals  
From \$1.00 per Carat  
Minimum Orders \$10.00



### Other Australian Stones

Rough Zircons—Red-White-Amber  
Rough Sapphires-Light Blue  
Garnets-Ruby Red Coloring  
Ribbonstone-Jasper-Malachite

Write for Free Lists

### NORMAN SEWARD

"Highlands"—2 Studley Ave., Kew  
MELBOURNE, AUSTRALIA

### VOLUME ONE COMPLETE

Still Available for \$1.85

LAPIDARY JOURNAL  
P. O. Box 1228      Hollywood 28

### NEW MEXICO AGATE

JAMES T. LAWYER

Industrial Minerals

923 W. Birch, Deming, N.M.

## FOR YOUR DESK

**HAND WROUGHT COPPER  
LETTER OPENER—7" LONG  
SET WITH CALIFORNIA  
GEMSTONE IN HANDLE**

Something attractive and useful  
that you will always cherish

Fine and impressive for  
remembrance giving

**\$2.00 each—6 for \$10.00  
postpaid**

### Valley Crafts Shop

DON G. METZGUS, Prop.

14135 Oxnard Street Van Nuys, Calif.

### *Beautiful Agate*

*From Arizona and New Mexico*

Arizona petrified woods, Wyoming banded agate, Golden Moss, Red Moss, Golden Fern Moss, Red and Golden Fern Moss, Red banded patterns. Painted Desert agate, combination of colors, Red, Golden Pink, Black and Red, Black and White, new find, you will like it.

Above material 10c per sq. inch. Assortment if desired. Minimum 10 sq. inches.

CARNELIAN AGATE—Nice material, 15c per sq. inch.

ARIZONA WOOD—Very colorful, 15c per sq. inch, \$1.00 per pound.

PICTURE WOOD—20c per sq. inch, \$1.50 per pound.

*Add approximate postage please*

### COME AND HUNT ROCKS

Make your next hunting trip in my yard where you can have rocks for 50c per pound. Tons of nice agate to select from, come any time, you are welcome.

### GEORGE C. CURTIS

*"The Agate Man"*

645 First Street

HERMOSA BEACH.

CALIFORNIA

## Gem Events

### AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES

First National Convention  
Shirley-Savoy Hotel  
June 13 to 16 Inclusive  
Denver, Colo.

### GEM VILLAGE

Bayfield, Colo.  
Fourth Annual Rock Show  
June 19th & 20th

### GLENDALE GEM & LAPIDARY SOCIETY

First Gem Exhibition  
June 26th & 27th  
Seastrom Building  
Sonora and Flower Sts.  
Glendale, Calif.

### SAN DIEGO COUNTY FAIR

Del Mar, Calif.  
10 Days Beginning June 24th  
\$1950 in Cash Prizes  
for Gem & Mineral Displays  
of San Diego County Residents

### CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES AND LOS ANGELES LAPIDARY SOCIETY

World's Largest Mineral & Gem Show  
July 16-17-18  
Municipal Auditorium  
Long Beach, Calif.

### NORTH LINCOLN AGATE SOCIETY

Nelscott, Oregon  
6th Annual Agate Show  
July 16-17  
Admission—10c

### NORTHWEST FEDERATION OF MINERALOGICAL SOCIETIES

Gem and Mineral Exhibition  
September 4 and 5  
National Guard Armory  
Bozeman, Mont.  
Shows at San Bernardino  
and San Diego, Calif., in October  
To Be Announced Later

# List of Catalogs and Price Lists Offered in This Issue

## FREE

COMPANY	PAGE
Arizona Agate Mines .....	108
Gordon Bowser .....	108
Burminco .....	89
Hickerson Supply Co. ....	109
Highland Pk. Lapidary Sup. Co.	83
Hyatt Lapidary Equipment Co.	129
Lapidary Equipment Co., Inc. .	123
Michigan Lapidary Supply & Research Co. ....	98
Mrs. B. F. Nonneman .....	99
Roy Plummer .....	79
Scott's .....	119
Stetsons .....	78
Norman Seward .....	129
Tacoma Lapidary Supply Co. .	115
The Gem Exchange .....	111
Theodore's .....	88
Ward's Natural Science Estab.	67
Wildberg Bros. Smelting & Refining Co. .	83
Ultra Violet Products Co. ....	126

## CHARGE

Covington Lapidary Engineers .....	25c	101
Grieger's .....	35c	91
J. J. Jewelcraft ..	20c (Free with order from current ad)	85
George Sassen ..	10c	79
The Geminlap Mart .....	10c	98
The Silver Mine	6c (stamps)	115

See us at Denver and Long Beach—  
Check the middle spread of  
**GORDON'S**

*Please Note the  
New Feature  
in the  
Opposite Column*

For your convenience we have listed the names of advertisers offering catalogs or price lists, either free or for a small sum. Send for them. Many contain valuable and useful information.

*Attend the Conventions*

**LAPIDARY JOURNAL**

P. O. Box 1228  
Hollywood 28 California

*New!!*

**A COMPACT  
COOLANT PUMP**

**ENGINEERED SPECIFICALLY  
FOR GEM CUTTERS**

3 3/4" Diameter by 6" high

SINGLE UNIT INCLUDES

110 Volt AC MOTOR  
1/4" outlet with 3 feet of hose

PLUG IN TO ELECTRIC OUTLET  
DIRECT COOLANT WHERE REQUIRED

USE **ONE** UNIT FOR BOTH  
**SAW AND GRINDERS**

**Price \$12.50 F.O.B. Los Angeles**  
Shipping Weight 5 pounds

*Satisfaction Guaranteed*

**VASSCO PRODUCTS**

5206 Monte Vista Street  
Los Angeles 42 California

— *Denver* —

the first meeting place of the  
**AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES**

June 13 - 16

— *Colorado* —

Rich in mineral and gem materials; an ideal location for this unique Lapidary and Silversmith School. First approved school of its kind.

**UNUSUAL ★ FASCINATING ★ SUCCESSFUL**

Visit the School, 50 miles north of Denver on Highway 87. Hand-made jewelry, lapidary supplies, custom work. If you desire to employ graduate students please register with us.

Eight-month, full-time institutional training course in Lapidary and Silversmithing, September through April. Approved for Veteran training.

**PIONEER LAPIDARY SCHOOL**

M. J. Stickles, Owner, Director  
LOVELAND, COLORADO

*Texas Agate*

**CABOCHON SPECIAL**—Six pounds of everything; red and black plume, riotous colored picture mosses, amygdules, fortification and banded in bright colors, scenic. Pieces one to three inches, \$5.00, postpaid.

**SHOOT A TEN SPOT** and get a generous and wide assortment of the finest agates from every location in Texas. We guarantee this the best deal offered in the country or money instantly refunded IN FULL.

**RAPIDESIGN GUIDES**—Set of four; costume and oval ring, square and antique, heart and cross, \$9.25, postpaid.

**IN STOCK**—RX complete lapidary shop. Highland Park saw units and arbors, Gem Makers, Felker Di-Met blades and DH-1 cut-off saws. All supplies. See the finest collection of Texas agates.

**EL PASO ROCK & LAPIDARY SUPPLY**

2401 Pittsburg Street

Phone Main 4840

El Paso, Texas



## COSMOS JADE

Now available in the form of *Precision Cut Cabochons*. Ready for mounting by jeweler or amateur. Any standard size or shape—singly or in sets. All cabochons carefully selected for *quality* and satisfaction assured.

Price 40 Cents Per Carat

J A D E

## ARISTOLITE

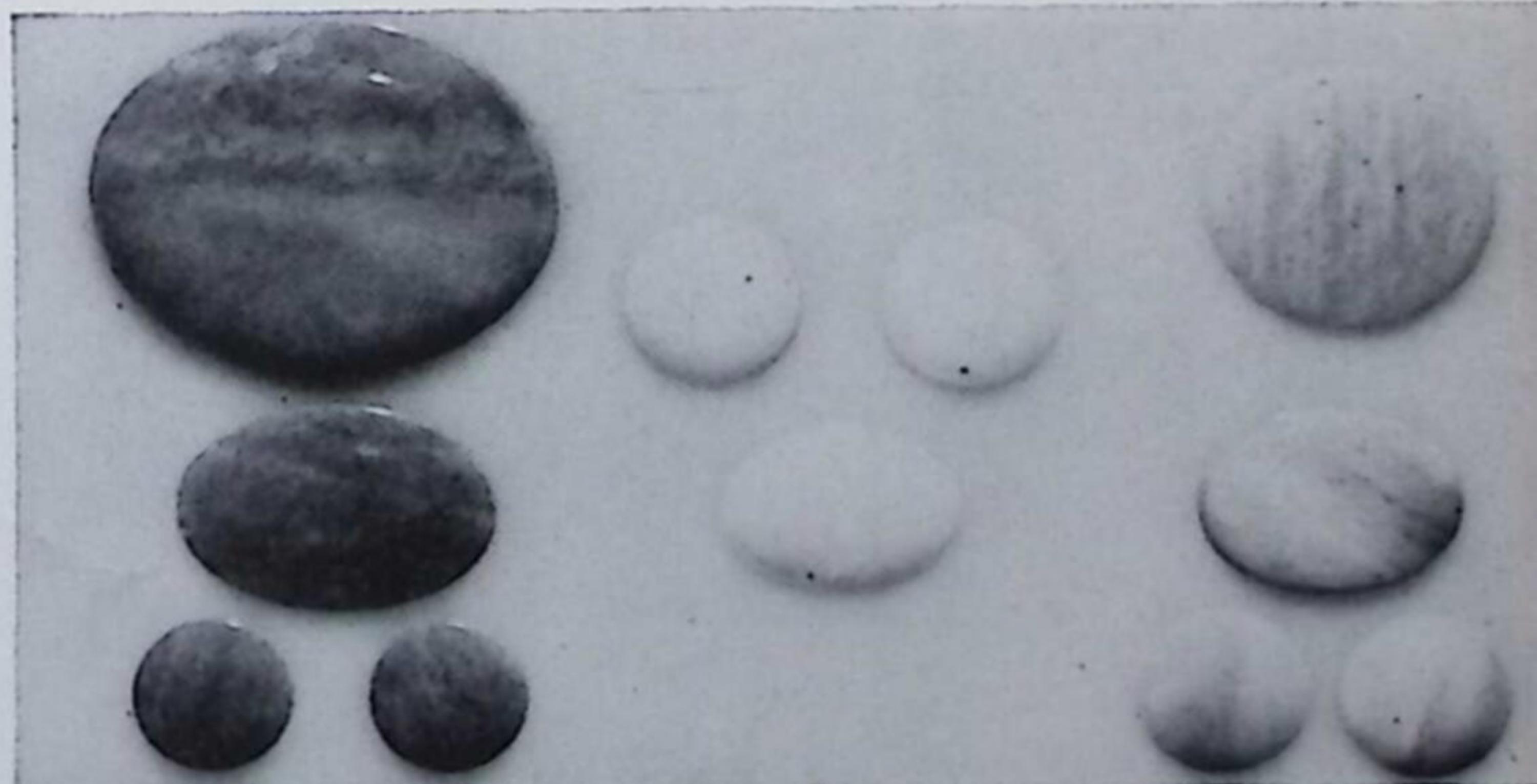
PRECISION CABOCHONS

ALL STANDARD  
SIZES AND SHAPES

in

GREENS—IVORY—GRAY

Price 15 Cents Per Carat



## HOUSE OF JADE

Gems International, Inc.

301 Granada Building  
SANTA BARBARA, CALIFORNIA

JADE

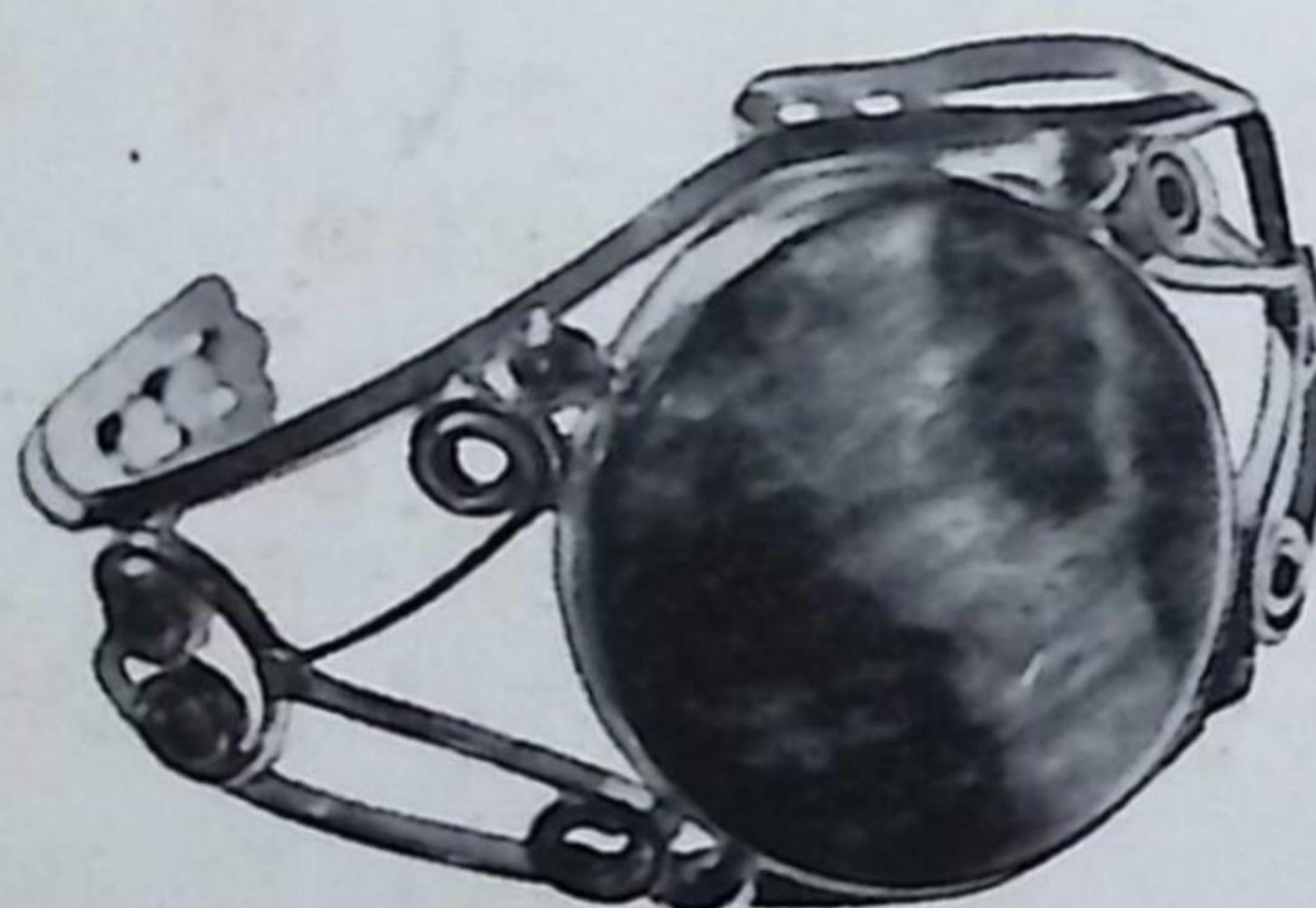
*Exclusively New!*



PINS



RINGS



BRACELETS



EARRINGS

*The Designs Are  
Exclusively New  
and Created  
Especially for Us*



PENDANTS



JADE

FIGURINES AND ANIMALS  
CARVED IN THE ORIENT

**Gems International Inc.**

301 GRANADA BLDG.  
SANTA BARBARA, CALIFORNIA

PHONE 29815