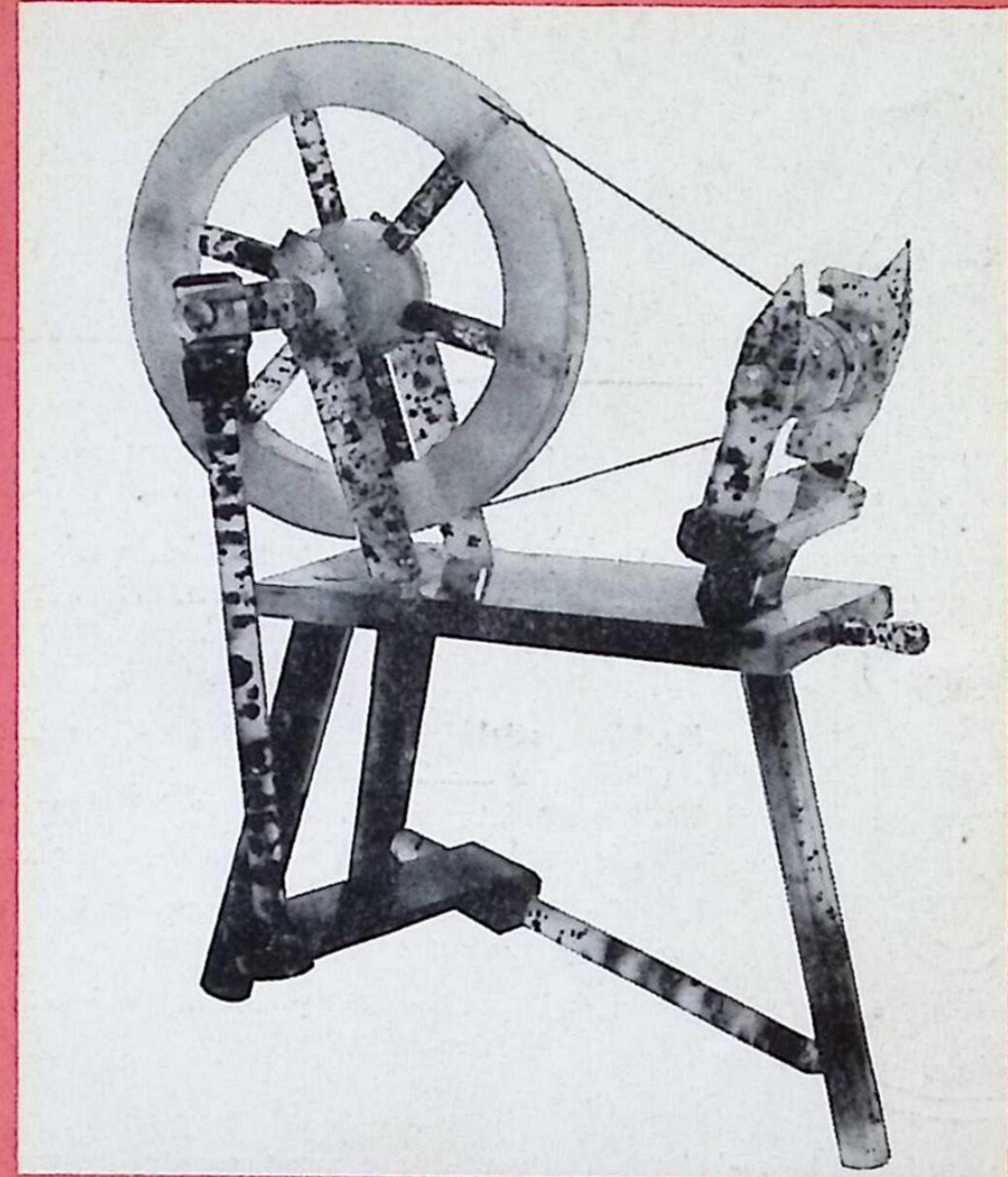


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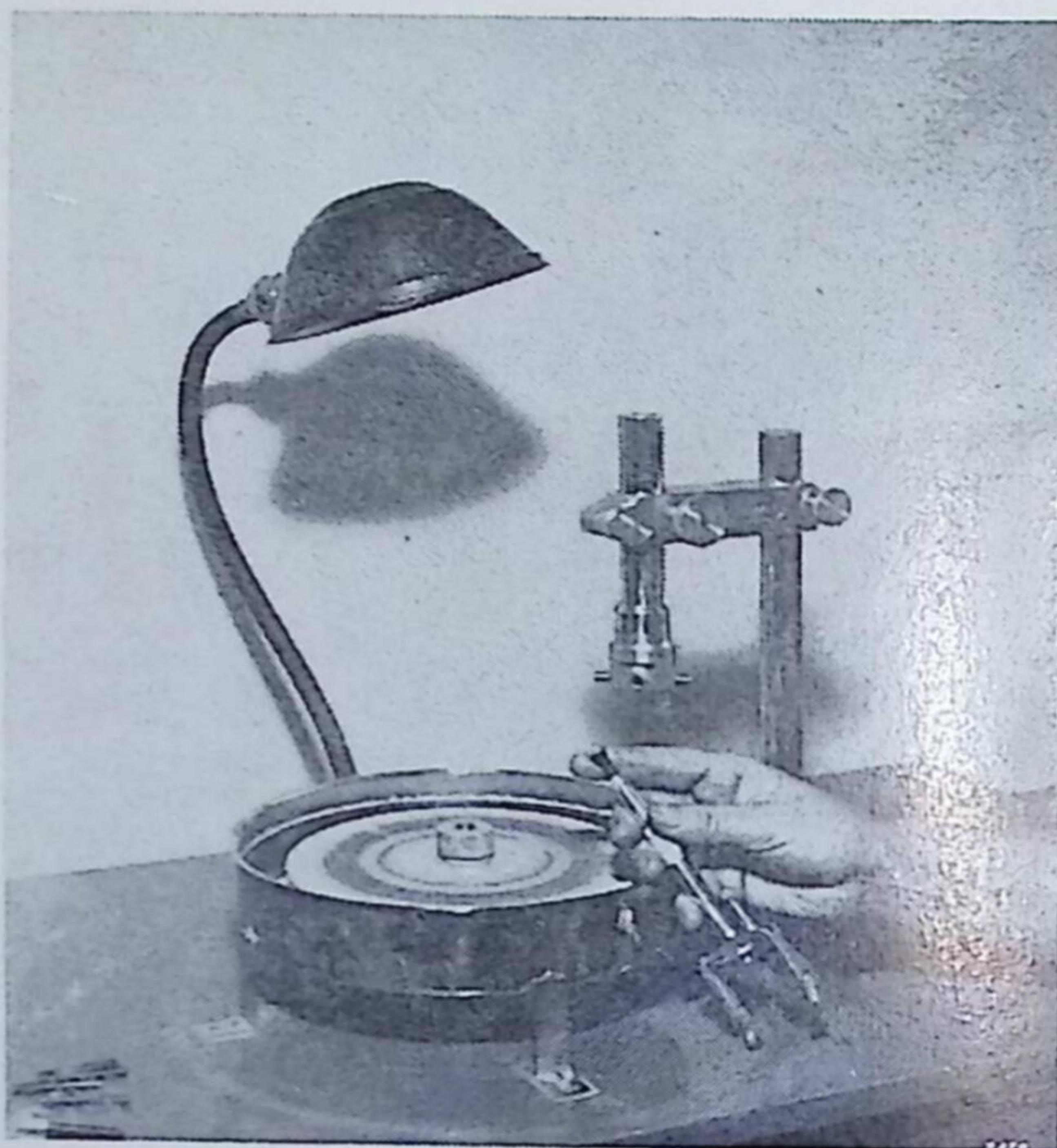
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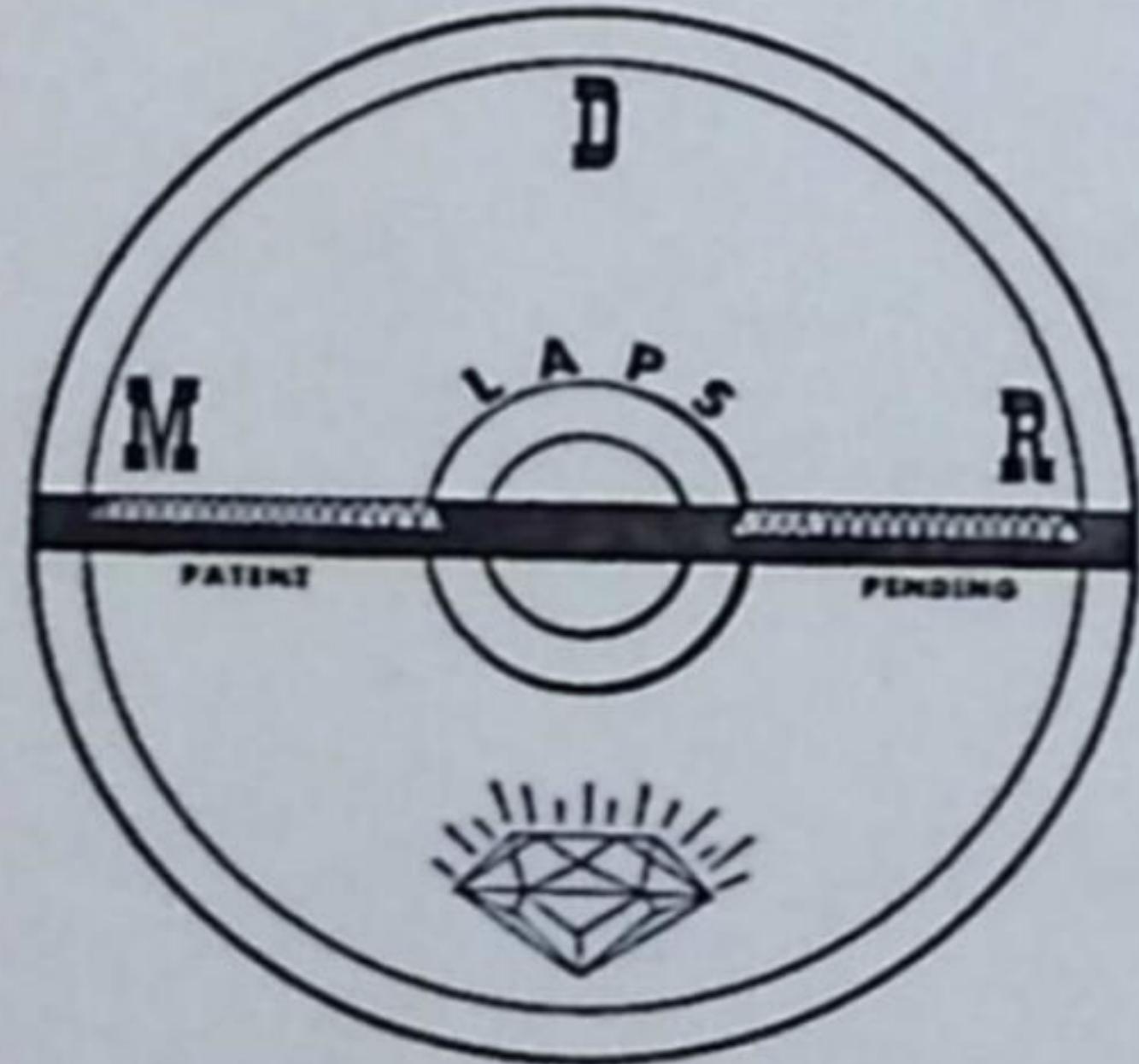
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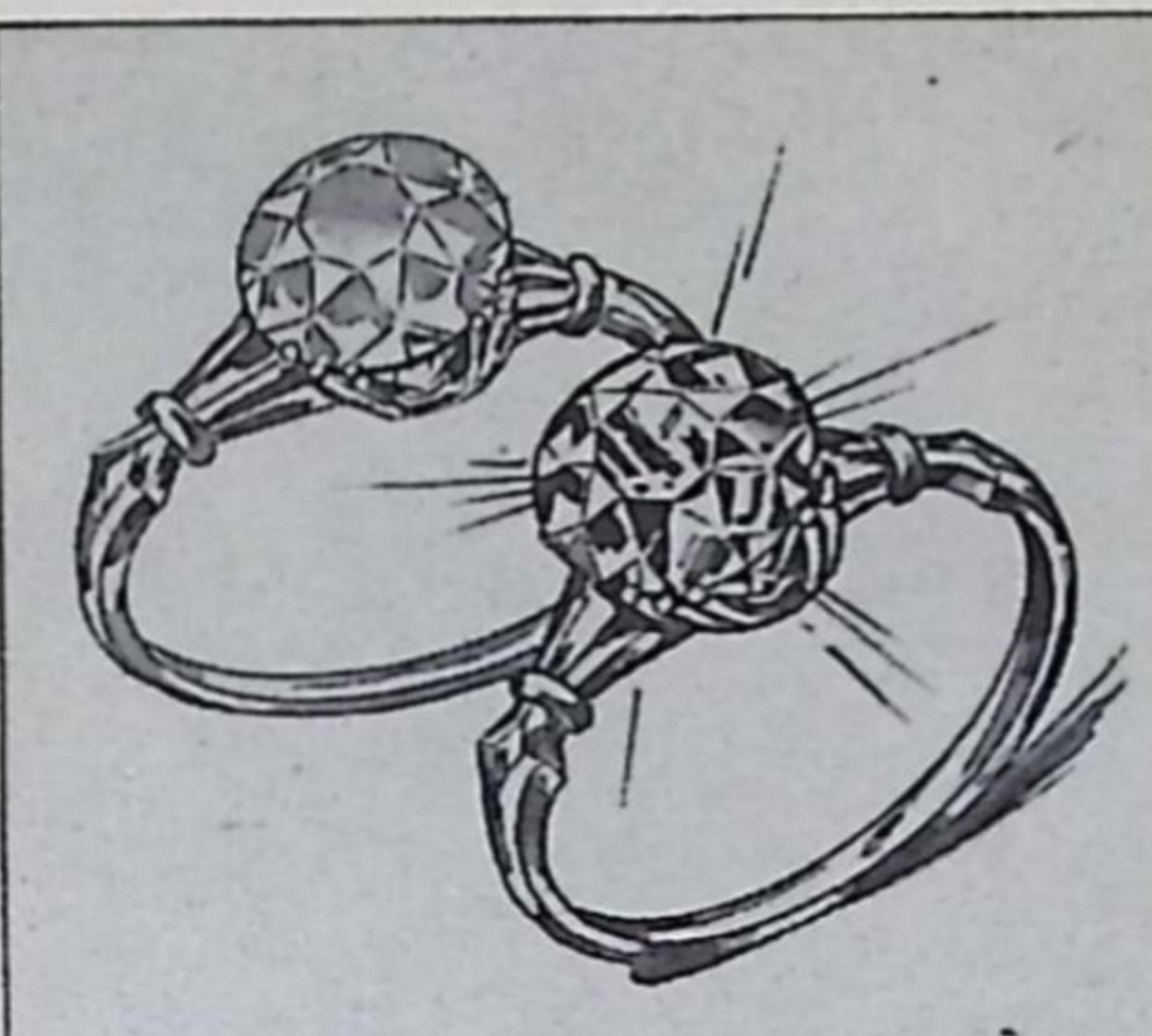
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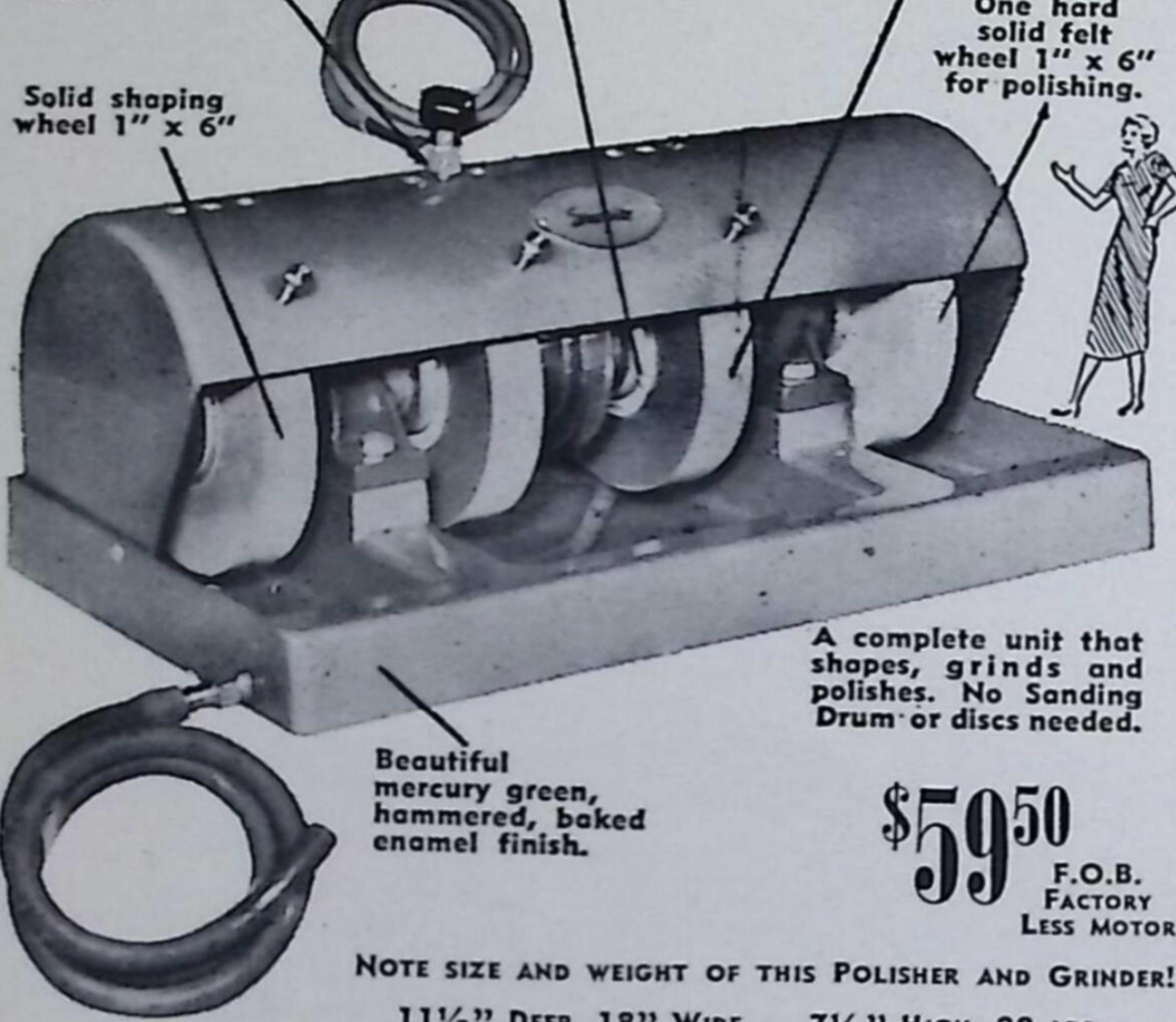


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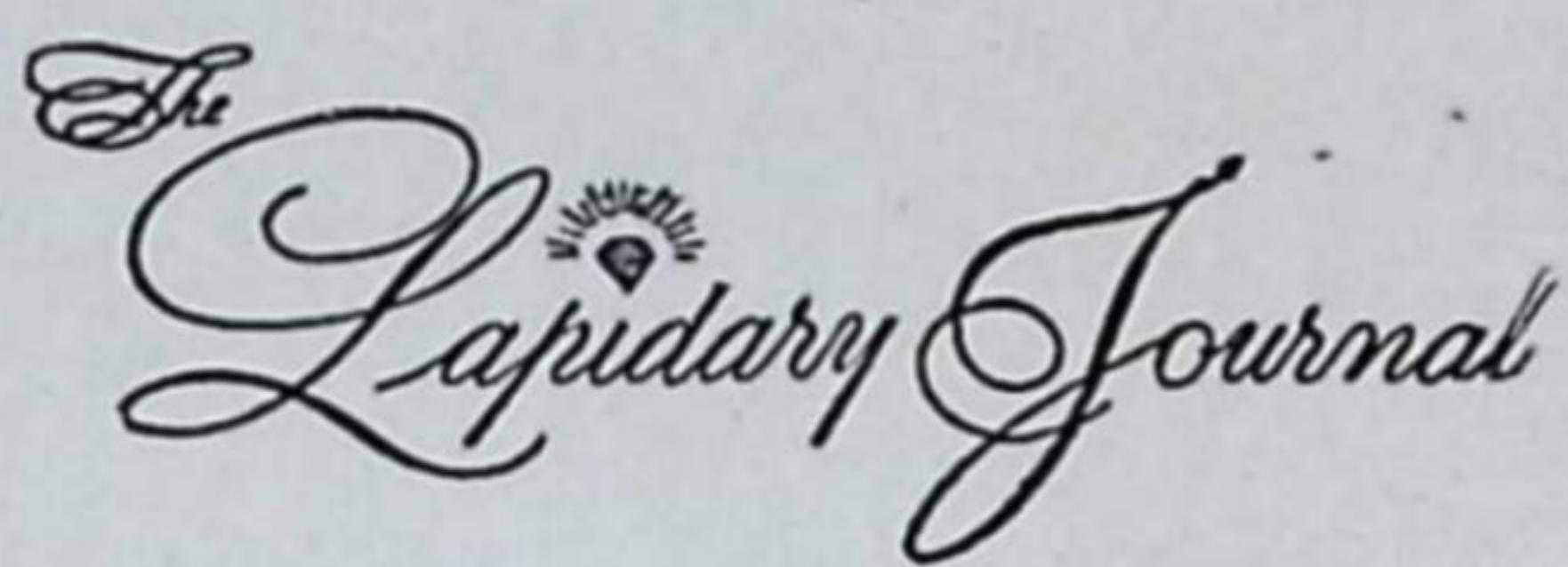
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TWENTY-FOURTH ISSUE

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by Claire A. Kennedy. See story on Page 104

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♦ Jewelry Castings from Leaves and Flowers

By OWEN D. DWIGHT, D.D.S.
6331 Hollywood Blvd., Hollywood 28, California

For one who is interested in jewelry casting there are as many potential subjects for reproduction in gold and silver as there are leaves and flowers in nature. Almost without exception any of these plants can be reproduced in gold or silver by the "lost leaf" method of casting. This process is almost identical to the lost wax method, so universally employed in dentistry today. The lost wax procedure was used as long ago as the time of Benvenuto Cellini, who enclosed wax patterns in sand, melted the wax and, by means of a small passageway (sprue) leading to the mold, cast molten gold and silver into the impressions left in the sand. These two methods differ today only that in one a wax pattern is used and in the other the actual flower or leaf itself is enclosed in the casting investment and eliminated by heat to produce the mold. By the lost leaf method an exact replica of the flower can be made.

Certain variations accompany the process, depending upon the thickness and shape of the leaf to be cast. For instance, ivy or geranium leaves (Figures I and X) are sufficiently thick to be cast by spruing them at the stems and investing them in casting investment without increasing their thickness. With the use of jewelers' or industrial investment, a burn-out period of 30 minutes at 1400 degrees F. is adequate to eliminate the residue of any leaf. Wax sprues up to the size of a lead pencil may be applied with sticky wax at the point least likely to mar the appearance of the leaf.

Round type geranium leaves (Figure X) are much thinner and therefore more difficult to cast. They can be thickened, like many other leaves, by painting the backs with a coat or two of shellac before investing.

Arbor vitae sprays (Figure IV) and branches can be cast with great success to resemble a fine gold filigree. By

fanning out the branches and tacking them together with tiny drops of sticky wax before investing, the appearance of the spray is greatly enhanced, since the super-imposition of the branches would tend to hide one another and complicate polishing. Arbor vitae is especially interesting to cast during the spring of the year when the buds, blossoms and berries appear. They all cast to perfection. Arbor vitae must be sprued from the back of the spray in a half dozen places with rods of wax the size of a match or smaller. All leaves should be painted with a de-bubbleizing agent before investing, which causes the investment to flow more easily and eliminates bubbles on the casting. 14 karat jewelry gold is satisfactory for casting the heavier type leaves, such as ivy and geranium. Fine or lacy leaves require a dental gold of partial denture calibre, containing platinum. This is less brittle and more fluid than 14 K. gold.

One of the most interesting subjects to cast is the blossom of the canary bird bush (Figure V). It is difficult to believe that nature could create a flower with such resemblance to a bird. Since the canary bird is too thin to permit casting, as it comes from the tree, the bodies are split in half with a razor blade from front to back. The delicate wing is held upright by pressing it against a piece of adhesive tape on the back. The addition of wax, shellac, or any other thickening agent to the reverse side of this particular leaf has been found to cause wilting; hence the adhesive tape method. When the flower is properly poised, an impression of the front side is taken in casting investment and allowed to set. The flower is then peeled from the investment model, which is a perfect negative of the flower. 26 gauge sheet-casting wax is then warmed and adapted closely to the model. Instead of removing this wax

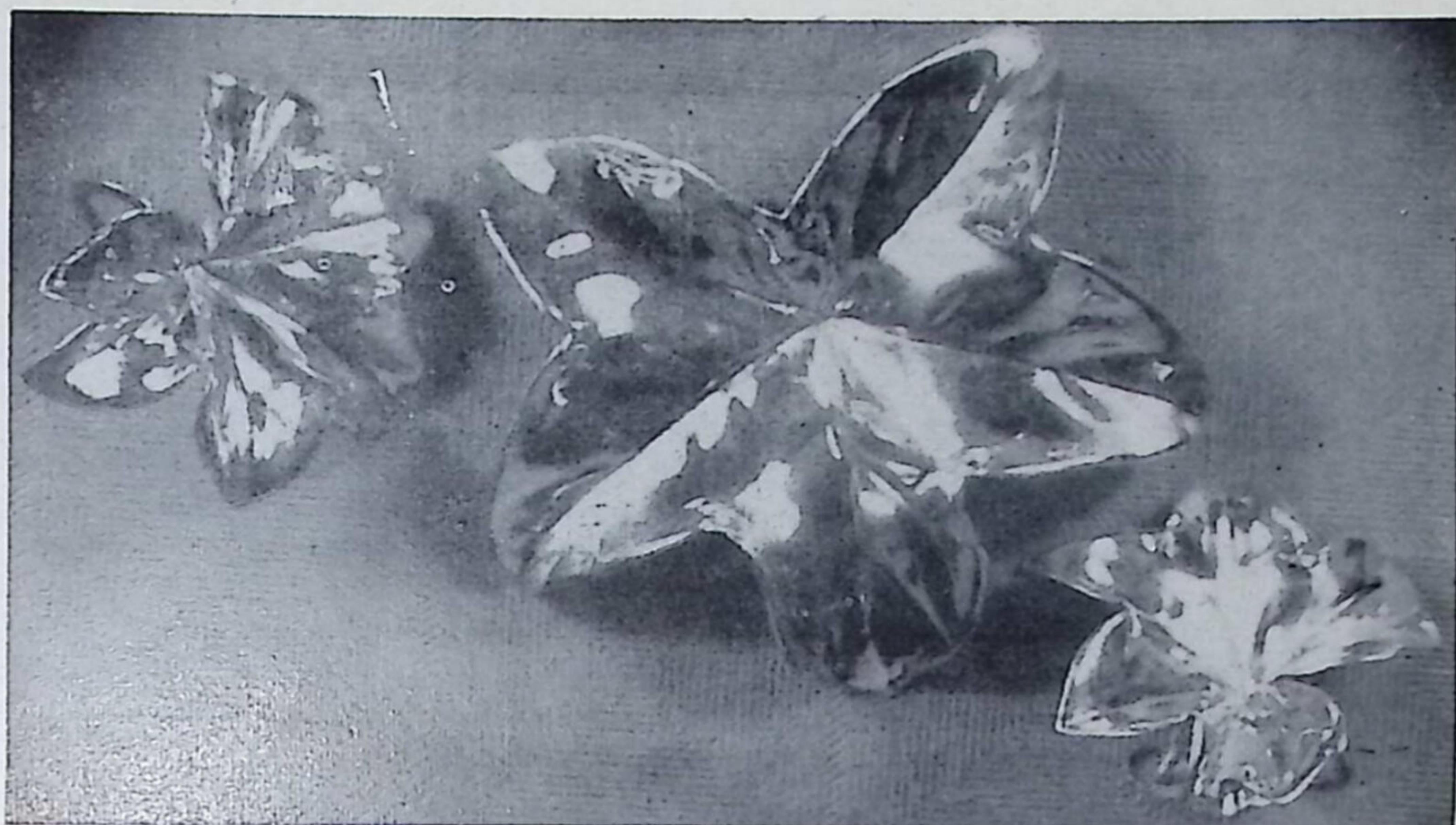


FIGURE I. Ivy geranium leaf set of a pin and matching earrings. In plucking leaves for earrings pick them from opposite sides of the same stem and they will make a close match.

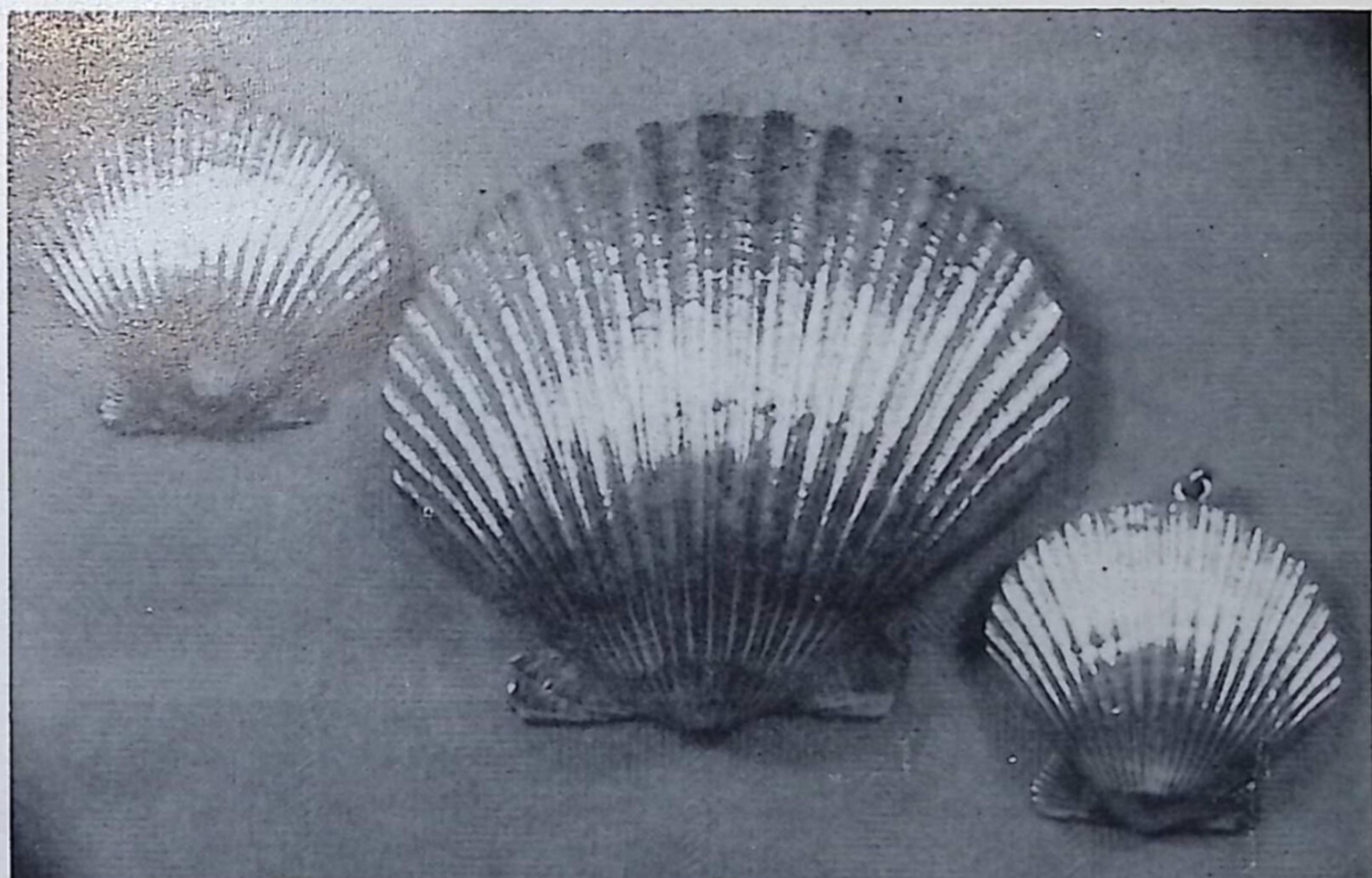


FIGURE II. Shells cast in 14 K. gold.

from the model it is sprued from the back and the entire assembly invested in a casting ring. By casting directly against the negative investment impression, perfect reproduction of the plant is obtained together with uniform thickness gained by the use of sheet-wax. When polished carefully these birds have a very graceful appearance and

contain all the delicate anatomical markings of the blossom. Canary birds can be made into earrings or worn as lapel pins.

An unusual looking leaf was found on the desert near Palm Springs, California (Figure VI), which no one has been able to identify so far, now referred to as the "desert leaf." It had a dusty,



FIGURE III
Morning glory leaf.

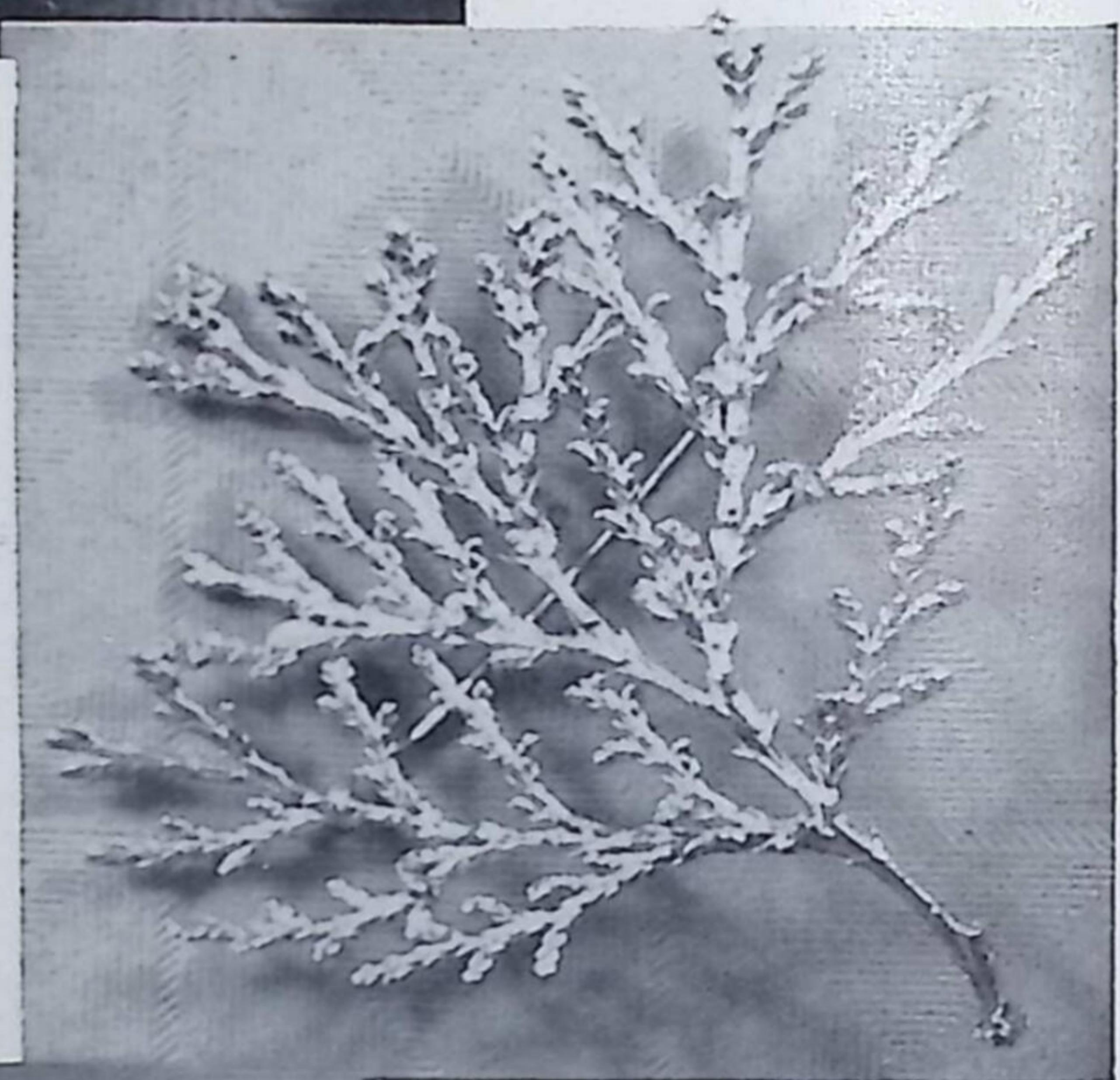


FIGURE IV
Arbor Vitae spray.

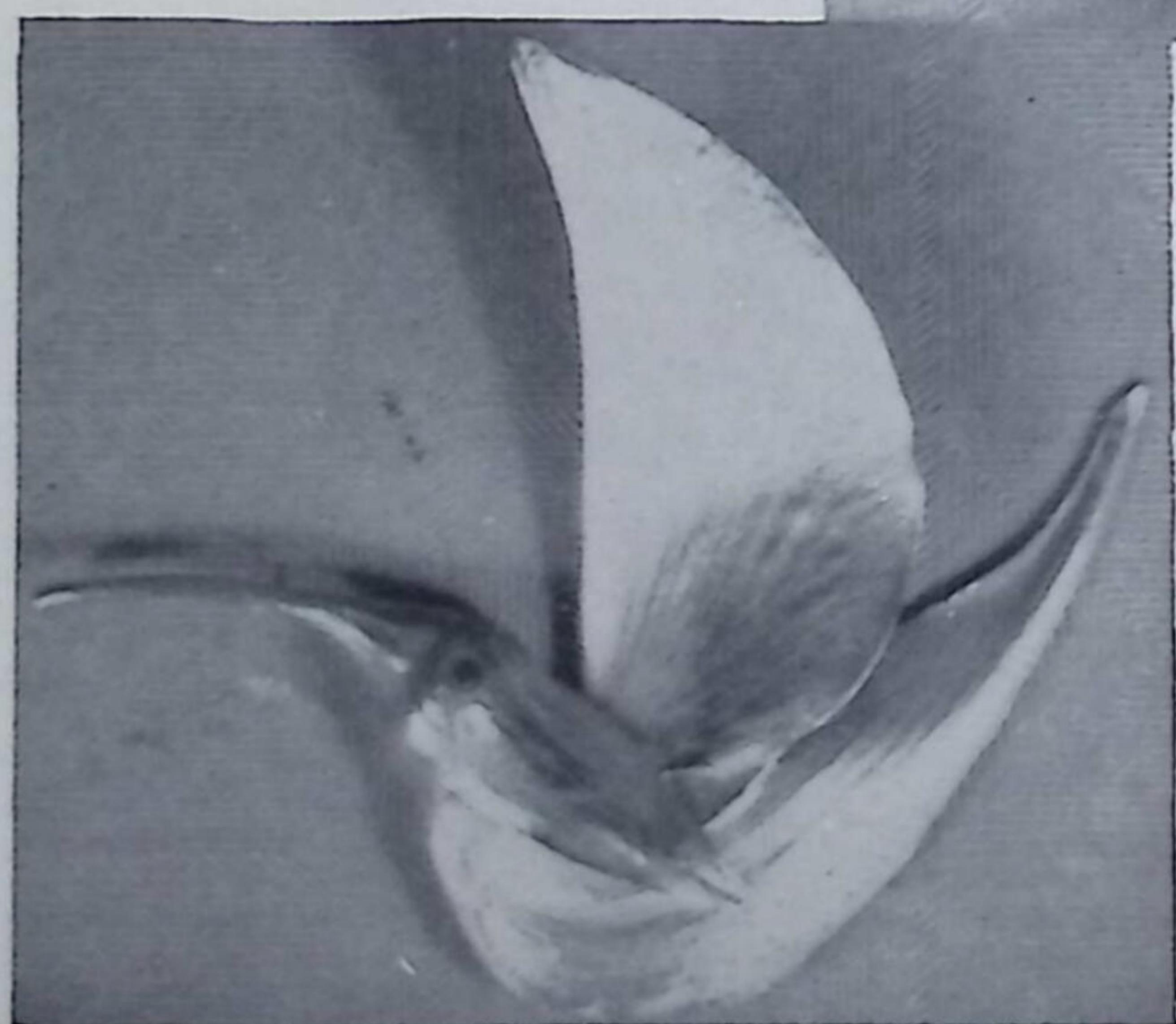


FIGURE V
Canary bird blossom.

insignificant, parched appearance, did not seem to wilt after being picked, and when cast in 20 K. gold had a beautiful nugget-like appearance. After mounting a pearl (see Figure VI) it became a very striking necklace.

Orchids of most all varieties can be cast in gold or silver by the "lost-leaf" method (Figure VII). I favor *Cymbidium* and *Epibendrum* orchids as the most suitable species for wearing as



FIGURE VI
Genus unknown. Referred to in this article as "desert leaf."

jewelry, the latter lending itself especially well to the hanging type earrings. *Epibendrum* orchids are most successfully cast in platinumized gold, since the petals are thin and easily bent or broken if done in silver. The larger type orchids can be handled successfully with silver since they are heavier.

To cast a small *Epibendrum* orchid, wax is first flowed on the reverse side at the junction of the petals and the stem, and shellac is painted on the rear of the comb portion for thickening. Wax at the petals strengthens the union and prevents breakage in the finished casting. The orchid is invested by waxing the stem end to a piece of tile slab and centering it around a casting ring of adequate size. Casting investment is then vibrated down the side of the ring until the orchid leaves begin to float. At that time investment is added from the top side to enclose the entire plant and fill the ring.

Narcissus blossoms, buds and stems have been cast into most attractive pieces of costume jewelry (Figure VIII).

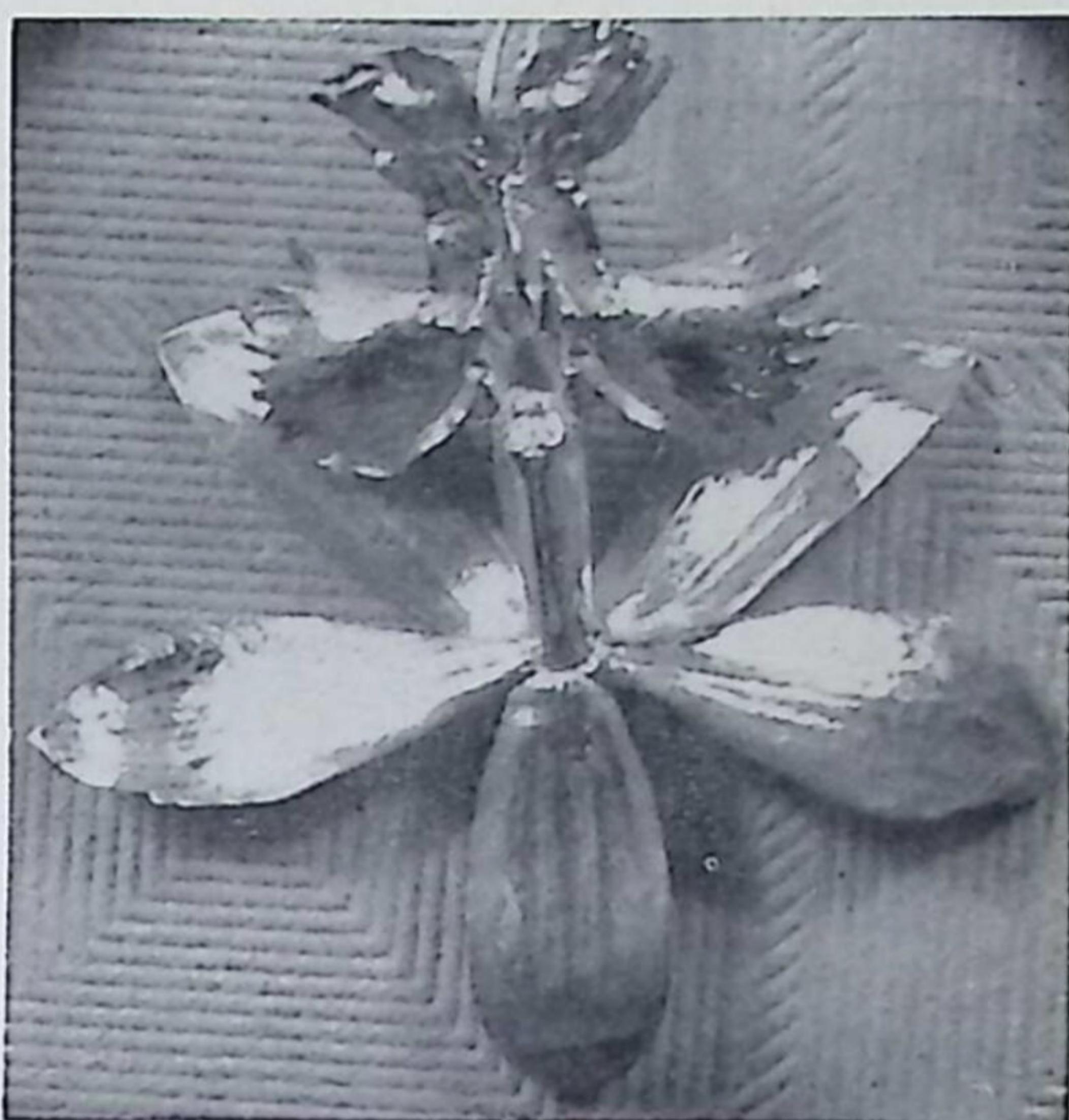


FIGURE VII. *Epibendrum*.

Shellac can be used as a thickening agent on the back side although many blossoms have been done without this aid. The stamens cast accurately and many times bits of pollen can actually be detected in the finished casting.

The grape leaf, (Figure IX), common to all parts of the world, has seldom been glorified in terms of jewelry; however, its reproduction in precious metal presents a unique study of grace and symmetry.



FIGURE VIII. *Narcissus flower*.

Polishing the various leaves and flowers is an exacting procedure. Leaves with delicate markings, like those found



FIGURE IX
Common grape leaf.

in the canary bird or the grape leaf, require nothing but the use of the brush wheel with a fine polishing agent, followed by a buffer with rouge. Geranium leaves and other flat surfaces can be detailed with rubber wheels (burlew discs) before the use of rouge.

The shells in Figure II were the most

difficult casting I have done. The impressions of the outside of the shells were first taken in casting investment and 26 gauge sheet wax was adapted to the investment model. The wax was sprued from the back, invested in a casting ring and cast directly against the investment model. In order to keep the undercut grooves of the shell from breaking the investment when the shell was removed, a thin coating of shellac was applied.

Centrifugal casting has been used in my work in all instances. Almost all equipment used is common to jewelry manufacturing and the dental laboratory and can be purchased from jewelry finding dealers.

I am interested in finding a more suitable spraying agent than shellac for the more delicate flowers, such as petunias. If any reader finds one through experimentation please write to me about it.

The supply of leaves and flowers for the jewelry-casting hobbyist is inexhaustible. One method or another of casting can be applied to each particular subject. It is a fascinating past-time to copy nature's very own in gold or silver, knowing that *each creation is the only one just like it in the whole world and cannot be bought in any store at any price.*



FIGURE X. *Common geranium leaves in a pair of pins.*

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♦ Texas Blue Topaz

By HUGH LEIPER

Chairman of *Faceter's Corner*, of the

Austin Gem and Mineral Society,

1700 Rabb Road, Austin, Texas

More than 400 years ago, the lure of gold and precious stones reputed to be found in the region of what is now known as the Edwards Plateau brought Cabeza de Vaca and a small retinue through a portion of the central-western part of Texas. Four ragged castaways out of a grandiose expedition headed by Narvaez, shipwrecked by a tropical hurricane on Galveston Island, wandered for nearly six years in the coastal region. At first they were slaves of the Indians, but in 1534 they managed to escape after many setbacks and vicissitudes. They took a course up the Colorado River (of Texas), turned West through the mesquite, skirted the southern flank of the Llano Estacado and crossed the Pecos River. They were then joined by three other survivors of the same expedition, Dorantes, Castillo and Estevanico, or Stephen, a Moorish slave of Dorantes.

During a portion of their journey, they were revered as Children of the Sun, and were presented with a copper rattle on which was carved a human face, also beads, pouches filled with what Vaca called pearls, and powdered antimony or lead, with which the natives painted their faces. But they were given no gold—no jewels.

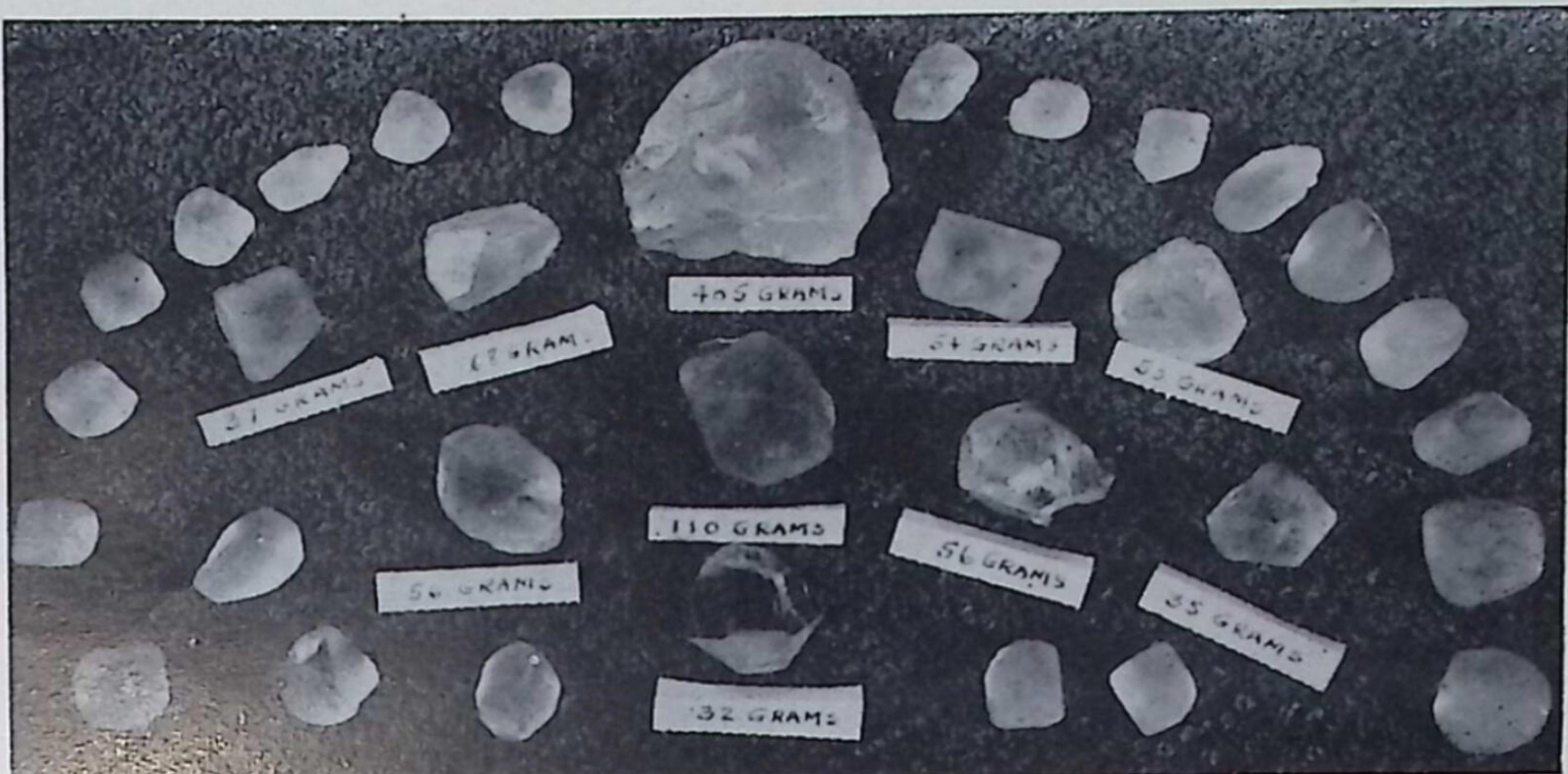
After many weary months of travel, four of the castaways crossed the Rio Grande, and eventually emerged among the settlements of Mexico, finally reaching Mexico City, where Vaca was made a guest of the viceroy. The reports which he made of his journey, embroidered in the telling, soon had the viceroy anxious to repeat in this new country to the north, the fabulous conquests of Cortez in Mexico and Pizarro in Peru. Selected to scout out the country ahead of the expedition was Fray Marcos, to be accompanied by the much-traveled Stephen the Moor as guide. Supervision of the expedition was entrusted to Francisco Vasquez de Coronado, a young nobleman of Spain.

The rush to riches was on! Fray Marcos left Mexico in March, 1539,

seeking the famed *Seven Cities of Cibola* which, according to the stories told in the capital, were encrusted with gold, turquoise, emeralds, etc. Fray Marcos did reach and visit some of the Zuni pueblos in what is now New Mexico but Stephen the Moor lost his life at Hawikuh. This disaster to his guide shortly prompted Fray Marcos to return to Mexico. He arrived in August, with more fear than food. But the stories he told (more from what he had heard than seen), added to by the credulity of gold-hungry young noblemen out to seek their fortunes in the New World, poured oil on the flames. Volunteers were legion—everyone wanted to go to the new land of promise. In the Spring of 1540 they set forth, 336 men with numerous servants, Indians and camp followers, the *soldaderos* of their time.

Eventually they arrived at the pueblos. After much visiting, breaking up into several parties of explorers, they went on to seek still farther ahead the chimera—"land of their dreams," which it seemed they had arrived at but never found. It was always "just over the horizon" somewhere. After battles, sieges of pueblos, wintering as they could, decimated in numbers, short of supplies—came the great news, or so they thought. Alvarado, one of Coronado's lieutenants in command, brought two Indian captives. One, "The Turk" (because he looked like one) and Sopete, told of a country called Quivira, and of a gold bracelet which one of them had possessed which came from there. It created a sensation! This was it—gold! So on—ever eastward, went the lure. Oarlocks of gold! So much gold that they could not only load horses but whole wagons with it, went the stories told by the wily Turk. And it sounded so good to the credulous ears of the young nobleman, Coronado, who wanted to hear just those things for that is what he came so far to acquire.

So, on April 23, 1541, Coronado set forth on what was to be the culmination



TEXAS BLUE TOPAZ—Mason County, Texas. Specimens found by members of the Austin Gem and Mineral Society, Austin, Texas. The large mass (center top) weighs 2019 carats; the large fine blue one in the center, 551 carats. Crystals pictured are from the collections of W. R. Odom of Odom's and Harry Simpson of B & H Gem Shop.

of his dreams. The small army headed Southeastward down the Pecos River to get around the end of the mountains, then eastward across the plains—plains so vast that "in my travels—of over a thousand leagues—I did not reach the end of them," recounts Coronado. He was traveling now on the great plains of the Texas Panhandle, the Llano Estacado. He reached the areas of Tule and Palo Duro canyons and eventually crossed into what is now Kansas.

Nowhere finding the fabled cities of wealth, which one after another informant had led him to believe were there, the little army dejectedly returned to their former winter camp in New Mexico, and eventually made their way back to Mexico, disillusioned, facing inquiries into their failures to find the wealth into which they had sunk so much of their own funds.

So ended the quest—the first by Europeans in that whole region, which produced little of anything in the way of wealth, or jewels or gold.

Yet, within a short few hundred miles of Coronado's route, there lay a region which might have satisfied at least a small part of the Spaniard's desire for jewels and minerals—the Llano uplift. This is an area unlike the plains he saw. It consists of rounded hills of granite, gently rolling in almost level black-jack oak pastures, with an occasional up-thrust of granitic knobs. The soil of the area consists of the eroded and de-

composed feldspars and granite which make up the country rock.

This area, centered around the towns of Llano and Mason, and extending northeast and southwest in general outline, covers several counties in extent. Highly mineralized, the region is cut across at a number of places by dikes of the various pegmatite minerals. Found in various quantities in the region have been small garnets, black tourmaline, corundum crystals (not cuttable), small pigeon-blood rubies, microcline (amazonite), epidote, amethyst, smoky quartz, rock crystal and massive quartz. There are many minerals such as molybdenum, vanadinite, mica, cassiterite, flour of gold, and others of lesser importance. Building stone of very fine quality and color is extensively quarried. The capitol building at Austin was built of pink granite from Granite Mountain, a rounded mass which looms near Marble Falls. The English syndicate which constructed it was paid in land scrip—three million acres of it, at a dollar an acre! With Texas' oil wealth, the present value of this land is hardly calculable. Many of the large ranches for which the state is famous were assembled through the purchase or trade of such land scrip.

Un-named in the above list, but of far greater importance to amateur lapidaries is TOPAZ. As far back as the 1870's topaz was reported from the Llano region. In 1894 a find was made

in an area near Streeter, about 8 miles north of Mason. The topaz occurs over a region about 12 miles long and 4 miles wide. That which has been found *in situ* occurs in pegmatite dikes or vugs. It is generally rotten and often stained but there are some very nice clear crystals which are well-formed with good faces and terminations.

By far the finest crystals have come from potholes in the granite-bottomed streams. The larger creeks are so filled with granite gravel that smaller creeks of the area have been the ones which have paid off for the amount of labor expended. There are simply too many cubic yards of gravel in the larger stream beds and bars, and it is often too far down to the bottom areas to tempt any but the most ambitious.

Topaz, being heavy, tends to seek bottom as it is washed and rolled in the stream. Many a digger will swear that it can seek out the smallest crevice in the deepest part of the creek with fiendish glee as a hiding place. Free-for-nothing topaz is strictly accident, but a few very fine ones have been found in just that manner, especially after rains have turned over the material. Some have been found on the surface of fields or pastures.

One such stream bed is filled with large granite boulders, some weighing many tons. Laborious digging down to the base of these boulders and into the gray-blue clay that sometimes lays at the bottom, has yielded very well in large water-worn crystals.

As in placer mining, pockets are encountered which often repay the digger handsomely—one such yielded a 255 carat crystal and 53 other pieces ranging downward in size. The hole was about the size and shape of a bathtub, with a four inch pegmatite vein running through the middle. Within fifteen feet of this, there have been taken out nine crystals ranging down from one gorgeous blue crystal of 110 grams, seven of 55 grams, and one of 30 grams, found by Dr. Frederick H. Pough, Curator of Physical Geology and Mineralogy of the *American Museum of Natural History*. He visited the area with the author in November, 1950. I missed that 110 gram piece by less than 30 inches—just got tired and quit digging for the day that far short of it.

The important thing about the Texas topaz to the faceter is the quality of the



Dry sifting of the gravel must be done, since water is often not available. The author shoveling, Bill Odom shaking, Dr. Kermit Fox just watching.

water-worn crystals. They are remarkably clean inside, yielding practically flawless gems when cut. The large percentage of light blue crystals recovered, especially in the larger sizes, have been of very fine quality. The color is not as deep as *some* of the blue topaz from Brazil, but the internal quality and freedom from feathers and flaws makes it very highly prized by the gem cutter. They cut to a minimum of waste.

The largest mass found so far weighs over 14 ounces. It is white, not perfect inside and lacks crystalline form, but it is a splendid specimen. The largest cuttable crystal found recently weighed approximately 554 carats but there are museum specimens of Mason County topaz which are considerably larger.

According to Dr. Pough, the topaz appears to have come from vugs in the weathered out granite of the region and to have been concentrated in the stream beds. It cannot have traveled far in most cases nor could it have been worn for many years. It would not survive the way diamonds do through several geological periods of erosion and redeposition. Yet, at the sites where most of the fine topaz has been found, no one, despite diligent search, has been able to trace the topaz to its source dike.

This area was photographed in color recently by a staff photographer of *National Geographic Magazine*, accompanied by members of the *Austin Gem and Mineral Society*, Austin, Texas, acting as his models. This story on amateur prospecting is expected to be published in an early issue of that magazine.



Top—THE EYE OF TEXAS 34.63 carat Texas blue topaz, cut by the author. Actual size.

Bottom—110 gram crystal, of finest color and quality topaz from Mason County, Texas. Found by Wm. M. Branch.



A word to those whose first impulse will be to come down to Texas for topaz might be in order. The known localities have been very heavily worked in the past two years since the discovery of the finer material. Almost every member of the Austin club has one "bragger" or more to show and hundreds of fine crystals have been taken out. The average yield for a hard day's work was formerly about fifteen pieces. This has been steadily declining for every pot-hole from the size of a derby hat up has been dug repeatedly. The best stream is hardly 300 yards long, another less than 500 yards. You really earn every one you find even there.

The topaz localities are in a region which is also fine deer-hunting country. The ranchers have a tightly organized system of deer-leases, which they sell to hunters at so much a head, by the day or season. They have a Rancher's Protective Association, with an attorney

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of their own. It is the same with mineral prospecting—you must have the owner's permission to hunt on his land. In most cases you must pay a daily fee. The laws of the state have teeth in them, with a maximum fine of \$500 for unlawful trespassing. Any land enclosed with a sheep-proof fence cannot be entered without permission. Cattleguards into unfenced land are still recognized as legal boundaries, even if the farm-to-market roads within are not fenced.

Some of the better ranches are under mineral lease by the year to individuals and closed to general prospecting. Danger from carelessly set grass fires, sometimes caused by thoughtless gem hunters, has rendered the hunting even more difficult as to securing permission. Likewise, exaggerated stories about the value of the finds have caused some ranchers to close their places to all topaz hunters.

Some of those who have had the best luck are W. R. Odom of *Odom's* and his wife Ione, of Star Route A, Box 32C, Austin, Texas; W. M. Branch and wife, who is secretary-treasurer of the Austin club (owner of the finest blue crystal the author has seen); Harry and Bee Simpson, Austin, who have nearly five pounds of fine crystals, the result of an entire summer of work. Many others have smaller amounts.

The 34.63 carat blue topaz cut by the writer in marquise shape, measuring almost $1\frac{1}{8}'' \times \frac{5}{8}''$, and named *The Eye of Texas* after the famous song, to which all Texas stands and doffs its collective hat, is a fine example of the Mason County blue gem.

Bibliography: *Coronado — Knight of Pueblos and Plains*, by Herbert E. Bolton. Whittlesey House and the University of New Mexico Press.



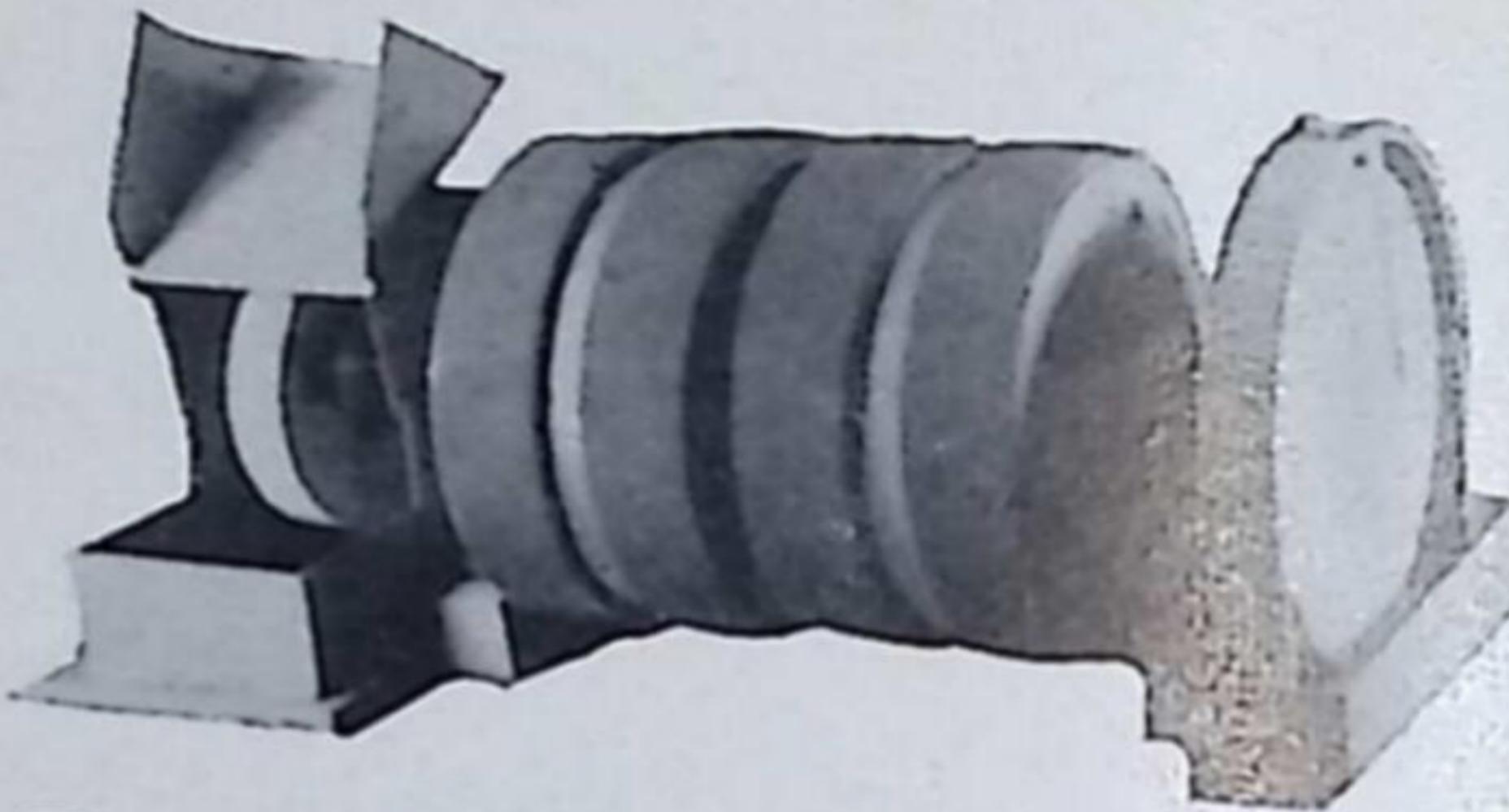
Mrs. Ione Odom screening gravel from under granite boulders, a favorite hiding place of Texas blue topaz.

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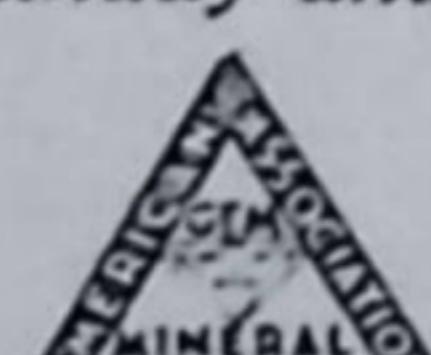
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◆ *Miniatures In Agate*

By CLAIRE A. KENNEDY

2938 S.E. Boyd St., Milwaukee, Oregon

Member of *Oregon Agate and Mineral Society*

It seems that whenever outsiders meet their first rockhound the first question they ask is "how did you ever get started in this thing?" So before I tell about the little miniatures illustrated herein let me tell you how I started on the *upward* path—and not the *downward* path, as folks sometimes facetiously call it.

My first experience dates back about twelve years ago when, in the course of my business, I called upon a Mr. Barnes in the town of Willamette, Oregon. On his porch there was a box of nodules from Eastern Oregon. My curiosity got the better of me and I asked him what they were.

"Oh, they're just some agates" he replied in a matter of fact way. Seeing that I still had a skeptical look he offered the advice that I should see his brother-in-law, Mr. Thornberry, for he had some that were cut in half and *polished*. Glory be . . . after one short look at a polished specimen I was gone; hook, line and sinker.

My trail then led to Mr. J. M. Mason who lived near me. There I saw many more agates in the rough and polished. Jelmer Mason then introduced me as a member in the *Oregon Agate and Mineral Society*. At about that time my wife, who had been my fishing com-

panion, found herself the wife of a Rock Nut. One of the first things that impressed me was the willingness of fellow members of the agate club to open their homes to anyone interested in seeking the beauty that had been discovered by them in Mother Nature's cupboard. My next problem was the assembly of equipment for cutting this thing called agate. I made all of my own equipment and it works, and Mrs. Kennedy still wears my first cabochon.

Early in my collecting career I began to think of a different way to use these colorful pieces of Nature's jewels. After making a number of cabochons, some paper weights and other pieces, the making of jewelry seemed to be the next step. That called for a course in metal-craft and so I enrolled in a jewelry making class in one of the night schools. Rings, brooches and pins were the result. Still, I was far from satisfied. It seemed there should be something else; some other way of using agate material.

Then, in arranging for a club display, I had the good fortune to meet Lee Unruh of Salem, Oregon. He had a display of miniatures in agate and his work has been written up and pictured several times. Enough said . . . I too now have miniatures in agate. To anyone who is thinking of attempting some-



Saw horse, chopping block and axe made of pink Arizona agatized wood.

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thing different in the lapidary line I offer the advice that . . . *the will to do it is the main thing.*



Above—Harp made of green moss agate.

Below—Table and chairs made of pink moss agate.



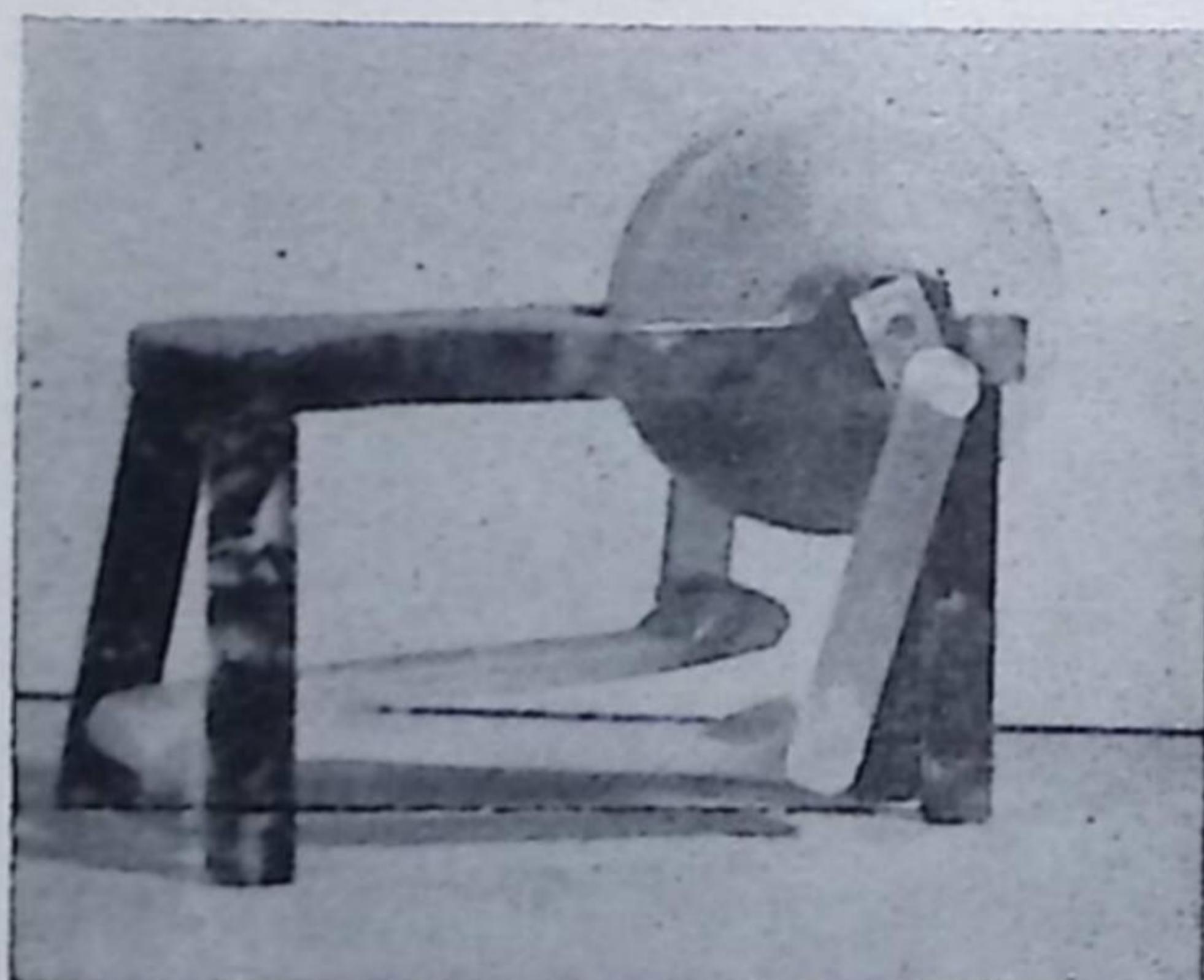
I use the common methods in preparing my pieces for assembly. My equipment includes a 12" saw; two 8" grinders of 100 and 220 grit; a drum sander 3x8"; a 6" trim saw and a small drill press. All of this equipment was built by myself in my home workshop, using a 6" metal lathe.

Everyone has his own preference for a polishing agent. Mine is cerium oxide and I use felt, leather and canvas buffs according to the material being worked. I try to fit my pieces for miniatures so that as little cement as possible is used. I use liquid solder or Duco cement, according to whether or not I am filling a blind hole. Duco cement does not work too well in a sealed hole in agate.

The spinning wheel on the cover was my very first miniature. I used a photo of a wheel more than a hundred years old for my pattern. The miniature is

5½" high and the wheel is 2½" in diameter. It is made from Oregon and Montana agate, although the cover caption says it is entirely Montana agate. The Montana material was found on a caravan after the Bozeman convention of the *Northwest Federation of Mineralogical Societies* in 1949. The wheel, treadle and bobbin are all moving parts and the piece required more than 100 hours of work. The table and chairs (illustrated) are made of pink moss agate found near Hay Creek, Ore. Green moss agate from Antelope and Sun Flower Flats, near Mount Hood, was used for the harp. I also made a Grand Piano of turtle-back agate in a light amethyst shade, also found near Antelope. Pink Arizona agatized wood was used in the saw horse and the grinding wheel was made from Antelope and Oregon beach material.

Nearly all of the material I have used was found by myself or my friends on our memorable field trips. Even the names of these places bring memories of the fine comradeship in the field and around the camp fire. The friends that my wife and I have made through this grand hobby lead me to believe that the best people of all must be the Rockhounds.



Grinding wheel made of agate from Oregon beaches.

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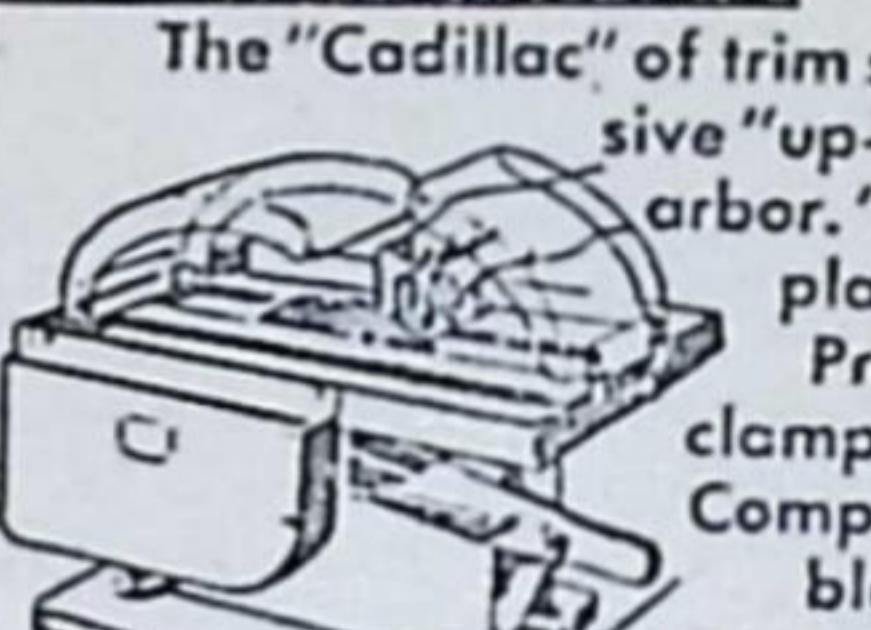
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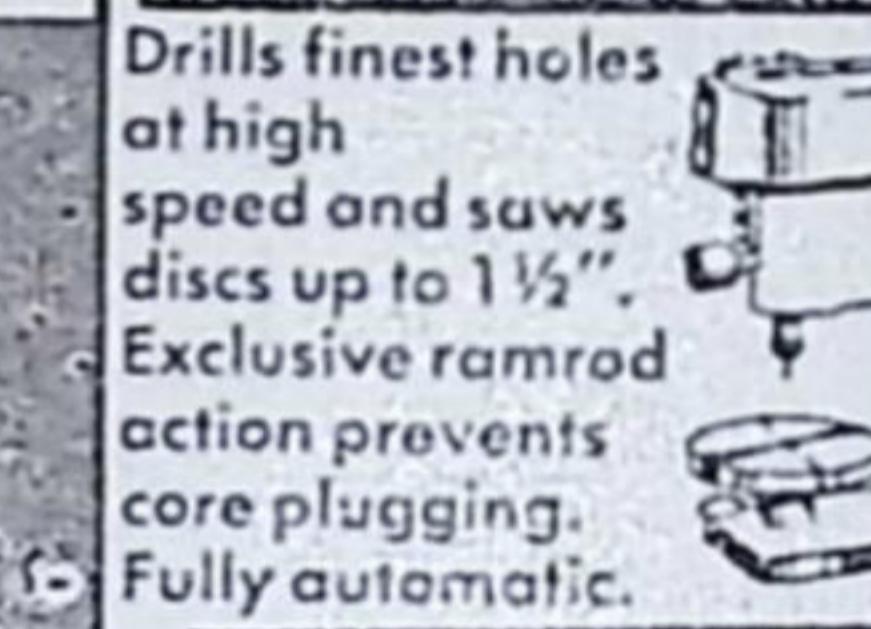
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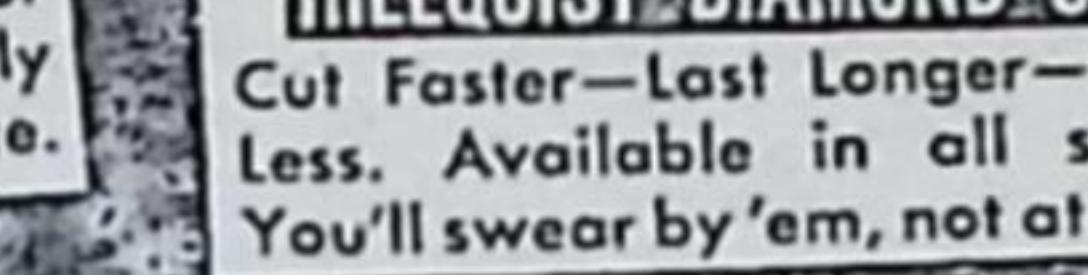
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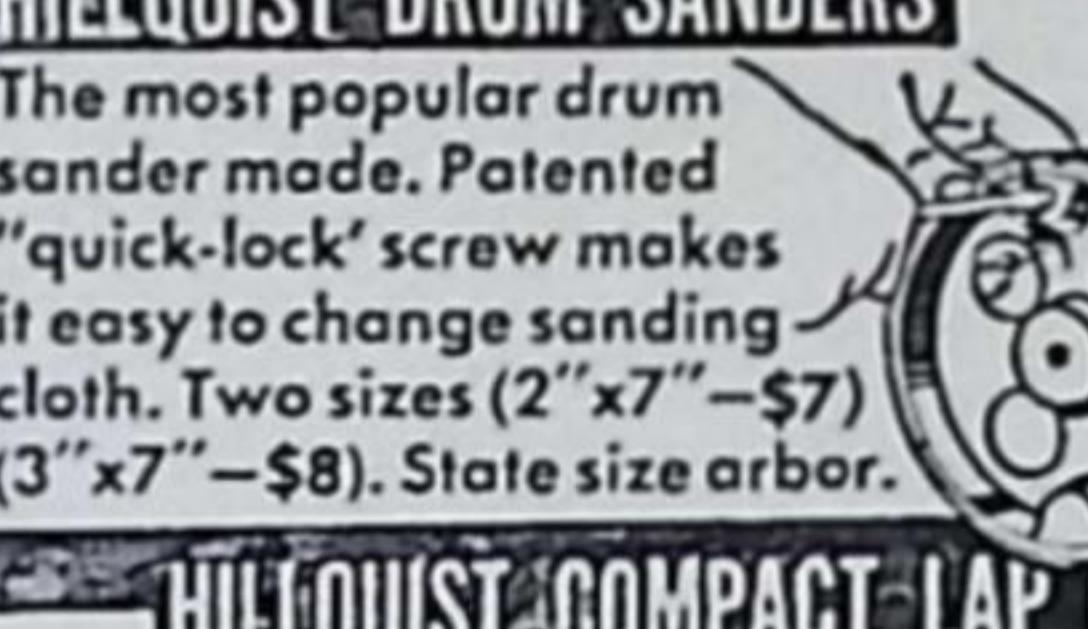
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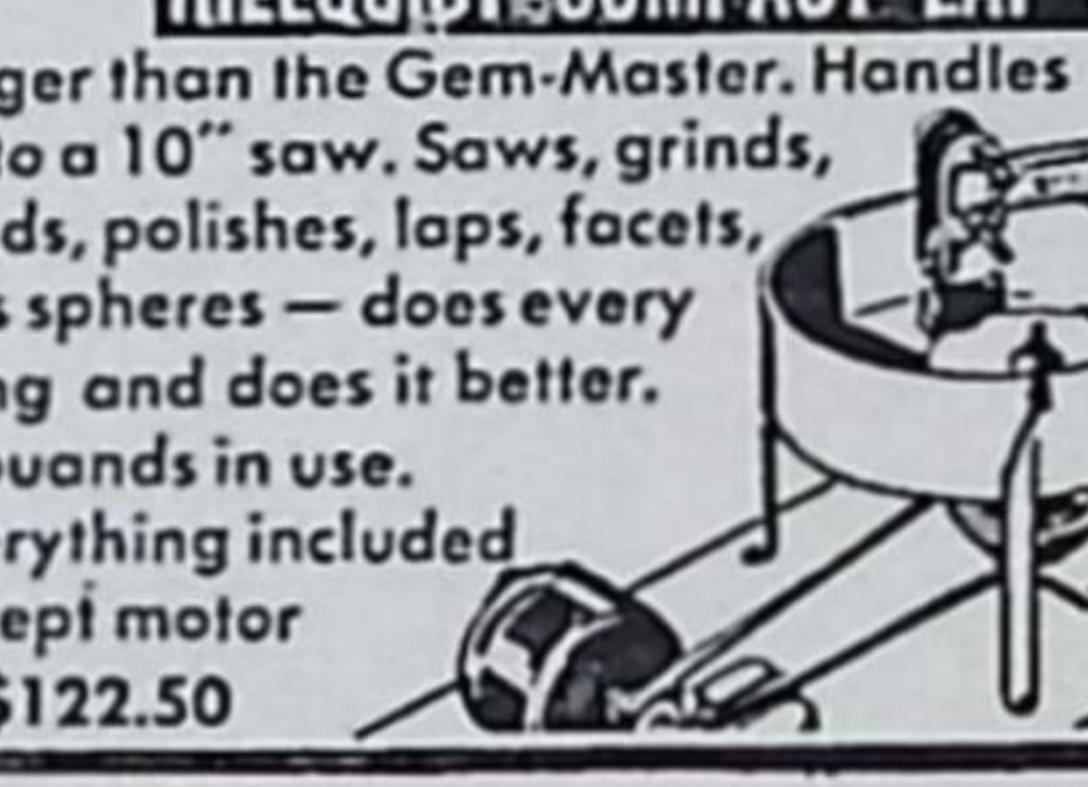
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What You Will See at Oakland

Never before have such elaborate plans been made for a convention and show as are being made for the annual convention of the *California Federation of Mineralogical Societies* to be held at Oakland, Calif., on June 22, 23, 24 in the Oakland Exposition Building. The plans purposely, and wisely, include a predominance in the public displays of gem exhibits. For it was felt by those in charge that the greatest chance of securing adequate local publicity and a large crowd was to have prominent gem displays. The rockhounds will come anyway but it was reasoned that if some magnet could be secured that would draw the non-hobbyists that many new thousands would be exposed to the virus of our stimulating hobby.

There will be minerals of course; probably the greatest collection of minerals ever assembled under one roof outside a museum. And there will be a couple of hundred cases of amateur lapidary and silver work brought by members of the Federation societies. Non-member societies too will bring their finest things such as the *San Jose Lapidary Society*, who will bring 20 cases of their best work on a non-competitive basis.

But it is through the generosity of public spirited citizens that an impressive array of gem exhibits is being gathered. The magnitude of this exhibit is indicated in the fact that the insurance premium alone on the special exhibits runs well over a thousand dollars. Then there is the considerable expense of armed guards, bank vaults and armored trucks to remove these precious things each night.

As this is written it appears possible that the famed Hope Diamond will be but one of the many exhibits. The two largest jade carvings in the world, THUNDER and LADY YANG, by Donal Hord will be on exhibit. Made of Wyoming jade these figures took two men more than three years to carve and they worked at least 40 hours every week. They weigh 104 pounds and 161 pounds and they are spinach green and apple green respectively. Anyone may take them home — for \$49,000 plus

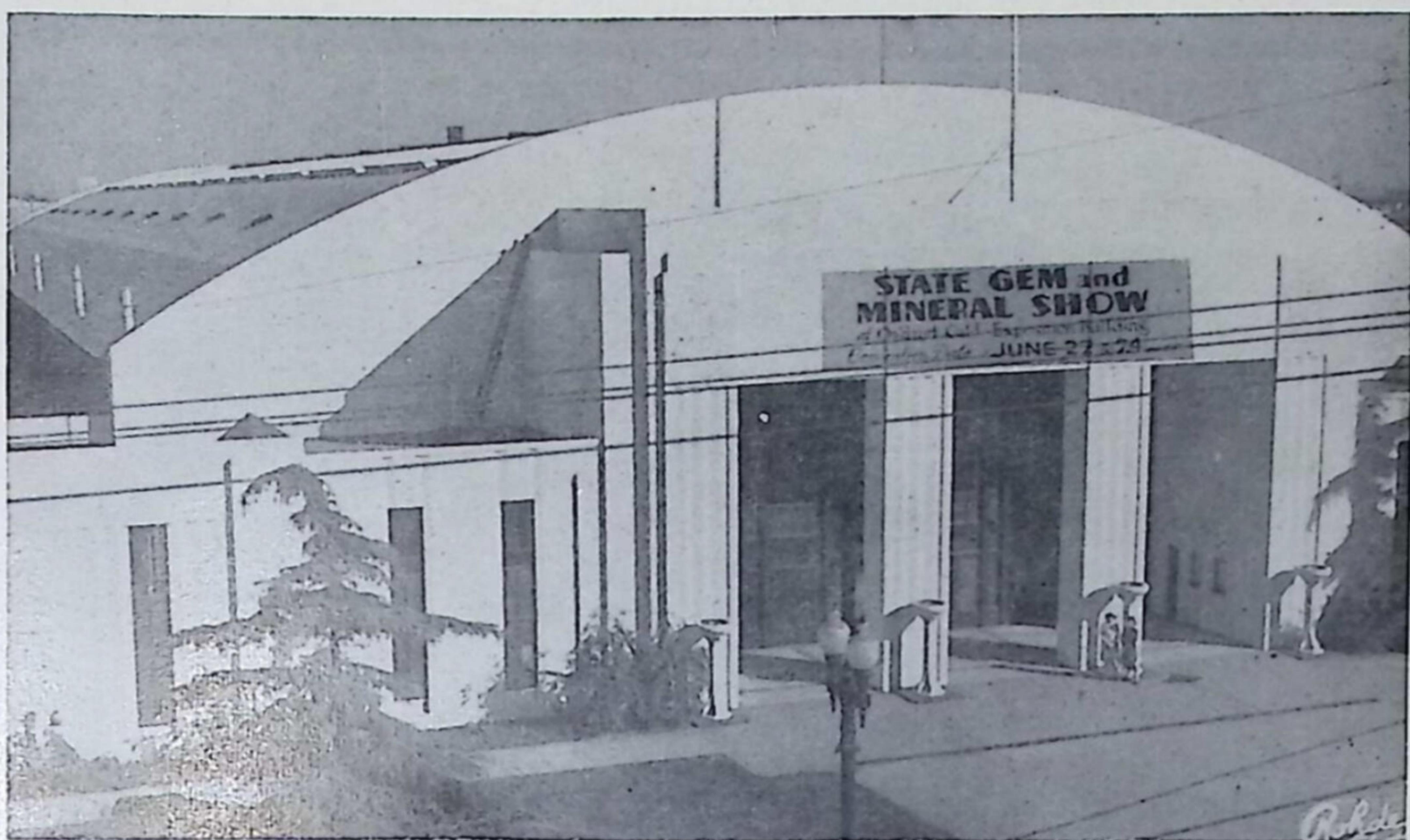
taxes. Full accounts of these masterpieces may be referred to in the January, 1948, and June, 1950, issues of the *Lapidary Journal*.

Then there will be more than a million dollars worth of diamonds in all colors exhibited by Martin L. Ehrmann Co., Los Angeles diamond brokers. Mr. Ehrmann has been doing a lot of experimentation in the coloring of diamonds and has produced some beautiful grass-green diamonds in the cyclotron at the University of California at Berkeley.

The private gem collection of colored faceted stones of William E. Phillips, proprietor of Los Angeles' largest jewelry store, will be displayed. It was about a year ago that we first saw Mr. Phillips' great collection in the company of Dr. Frederick H. Pough of the American Museum of Natural History. He pronounced it one of America's outstanding assortment of gems.

Since then Mr. Phillips has flown around the world, gathering new additions for his collection in Siam, India, Ceylon and Europe. Among items of special interest in the Phillips collection is a 149 carat white topaz in a square cushion antique cut of more than 200 facets. In Ceylon Mr. Phillips acquired a brown peridot weighing 158.55 carats. This was sold to him as a brown tourmaline and later identified as genuine olivine. Other interesting items are a deep purple amethyst (101 carats), a peridot from the Red Sea that is 45.40 carats and reputed to be the largest and finest green peridot outside the British Museum. The largest stone in the collection is a citrine weighing 944 carats. There are 20 colors of sapphires in the Phillips display.

We will exhibit for the first time what is believed to be the largest opal in private hands—eight full ounces of fire loveliness. This opal was 11½ ounces when we first acquired it several months ago from Mr. Seward. At that time he advised us that it was one of the largest opals ever found in Australia. We removed the matrix and most of the potch and polished the opal as a specimen piece. Despite several fancy offers we prefer to keep it as a specimen because



Where it all will happen



. showing the extensive Hirsch mineral display.



THUNDER by Donal Hord. Portraying an American Indian sitting cross-legged on rain clouds. With bony fingers he pulls thunder from a drum held at the shoulder as the fierce wind of the storm blows his long hair over the other shoulder.



LADY YANG by Donal Hord. Back view. Note the fine detail of the hair, ear and the Phoenix-bird hair clip. Both pieces are made of Wyoming jade and weigh 194 and 162 pounds respectively. They are the largest jade carvings in existence.



it is so lovely and just to prove that all amateurs do not cut every magnificent specimen into cabochons.

This will be displayed in the *Lapidary Journal* booth, where our friends are invited to come for a little rest in big soft chairs we shall provide for their comfort while they relax and look over our extensive book array containing every presently available book on gem cutting, gems and silversmithing.

The amateur lapidaries will be represented by the onyx dinnerware set of O. C. Barnes of Los Angeles and several large sphere collections. Raymond Addison, American's outstanding cameo artist, will exhibit his work which, among 26 pieces, includes several new pieces. His work was fully described in the first issue of the *Lapidary Journal*.

Rare sulfates from the Leviathan mine will be shown in plastic. These always disintegrate when brought to the surface so they have been sealed in plastic at the bottom of the mine.

Kazanjian Brothers of Los Angeles will exhibit more than a half million dollars worth of star sapphires, including the famed *Star of Queensland*, the largest star sapphire in the world.



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The exposition building is 350x150' — larger than a football gridiron.
A full account of the exhibits, with illustrations, will be found on Pages 108 through 114. An account of a special three day field trip appears on Page 144.

BANQUET (SMORGASBORD) at 6:30 P.M. ON JUNE 23 IN THE AUDITORIUM OF THE EXPOSITION BUILDING. TICKETS \$2.75

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THE TIME: June 22, 23, 24

THE PLACE: The Exposition Building in Oakland

THE EVENT: The Biggest Show of Them All! !

We're not going to waste time persuading you to attend this year's California Federation show, because if you haven't already decided to get there by hook or crook, you just aren't living right! Which is just one way of telling you that anyone who misses the Big Event is going to be moaning for years to come. So, avoid distress later and **BE THERE**.

We'll be waiting in our booths to the right of the entrance door to welcome all our old friends, and make new ones, at another fine convention. We will have a wide variety of excellent cutting materials for you lapidaries, many superb specimens for the discriminating collector and hundreds of items especially

suited to the taste of the general collector. Be sure to drop by and say hello. We'll be looking for you.

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Top row—(left to right) Anne Morrow Lindbergh—1 1/4 inches high—Intaglio in Agate—9/16 inches across—Ruth Summers—1 1/8 inches high.

Middle row—Helen Gahagan as "Elizabeth the Queen"—1 inch high—Two Nudes—1 5/8 inches high.

Bottom row—Irene Dunne, from an early portrait—1 1/8 inches high—Martha Speck—1 inch high—Pendant of a Nude—1 1/2 inches high.

All of the above, carved by Raymond M. Addison, will be exhibited.

Highlighting the mineral and gem displays among Federation members will be the outstanding California collection of Mrs. Jessie Hirsch of Mariposa, collected over a period of thirty years. Among the many items will be what is believed to be the largest thunder egg in existence. It was found in the vicinity of Eagle Crags, north of Barstow, Calif., and it measures 22 x 22". One half weighs 240 pounds. This is a ball of lava, partially turned to jasper and lined with blue chalcedony with yellow chalcedony needles — the dream of every true rockhound. Mrs. Hirsch possesses the largest piece of adamite on limonite ever taken from the mine

in Durango, Mexico, the only known location of this spectacular mineral. The collection includes a malachite table top 18 x 18", made in Germany a half century ago from the earliest malachite found in Africa. Material such as this is no longer available. The lapidary will also be interested in a huge topaz from Brazil weighing 495 carats. A cluster of calcite crystals from Niaca, Mexico is another spectacular specimen as is an amethyst geode measuring 12 x 13". These are but a few of the many items in Mrs. Hirsch's wonderful collection. Mrs. Hirsch will also bring her noted fluorescent collection which will be shown in conjunction with the ex-

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Oakland, California—June 22-23-24. The world's largest amateur mineral convention will be held in the Municipal Exposition Building. There will be 30,000 square feet of floor space devoted to the display of amateur and commercial exhibits of gems, minerals, materials and equipment. Also several special exhibits of world-wide fame. It will have the greatest display of saws, grinding, faceting and lapidary equipment ever shown under one roof. It may be your last chance to buy items which are becoming increasingly scarce. This Show will be worth a thousand-mile trip and your vacation time.

It is also the Annual Exhibition of the California Federation of Mineralogical Societies and is under the direct auspices of the East Bay Mineral Society of Oakland, California.

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The annual banquet will be a smorgasbord affair which gives the visiting rockhound an opportunity to founder himself at \$2.75 per person. This will be held on Saturday night, across the street from the exhibits.

There will be plenty of room for all this for the exhibition is being held in an area 150 feet wide by 450 feet long—larger than a football gridiron. Half of this space will be taken by the leading mineral, gem and lapidary supply dealers from all over America, offering a greater array of merchandise than has ever been exhibited before. All of these intricate arrangements have been made by the host society, the *East Bay Mineral Society*, working with the *American Gem and Mineral Suppliers Association*, and chairmanned by Harold C. and Nathalie F. Mahoney.

Speakers will include George H. Needham on the subject "Minerals Through the Microscope"; R. O. Deidrick speaking on "Rare Sulfate Minerals from the Leviathan Mine"; J. Lewis

Renton will show his famed kodachrome slides of agates and minerals. A special three day field trip following the convention is described on page 144.

A show of such magnitude cannot be put on for peanuts and an admission will be charged. Payment of a dollar at the registration desk entitles a member of ANY mineral or lapidary society to a badge and a free copy of the official program contained in a special edition of *Mineral Notes and News*, the Federation's own newspaper. The badge will entitle people to go and come at will during the convention. Non-society members will have to pay 90c admission (tax included) each time they enter the building, and purchase a program, if they desire one, for 25c. People should plan to attend during the morning hours as the anticipated crowds will be so terrific in the afternoons and evenings that it will probably be difficult to see all of the exhibits even if you go every day. Saturday morning has been set aside as a special time at which amateur photographers will have free reign in taking pictures of their selections from the many thousands of items.

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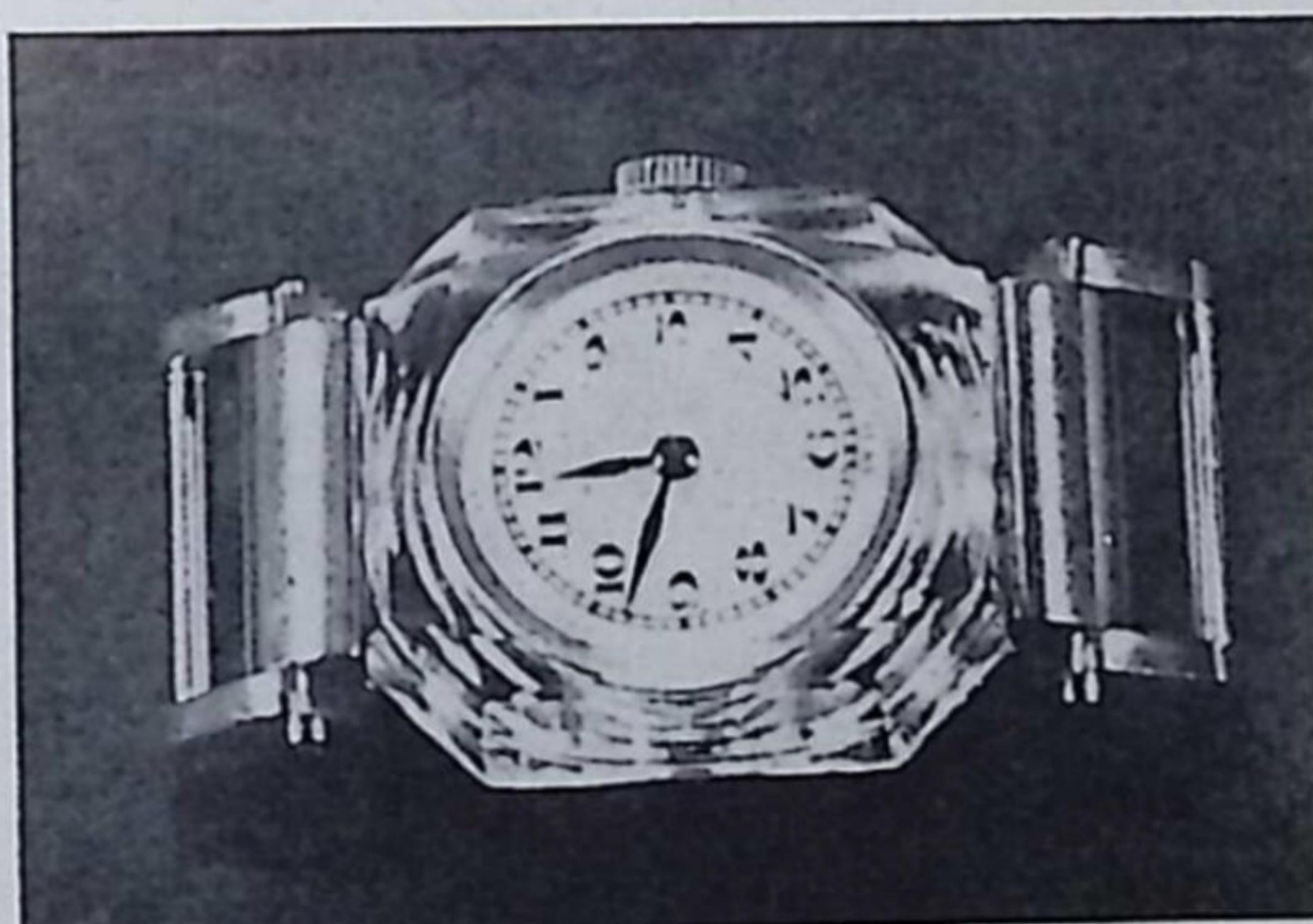
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♦ Jade Sources--Past and Present

By LELANDE QUICK

Since the discovery of jade in Wyoming in 1930, and its consequent commercial availability in 1940, coincidental with the discovery of jade at Monterey, California, the same year, the amateur gem cutter has had a wide interest in the gem. It has been his favorite cabochon material for several years.

Speakers on the subject are always popular with program chairmen and accounts of these talks reach us in the many society bulletins that cross our desk. We are appalled at times at the misinformation, rather than the information, that some of the speakers hand out to their audiences. Perhaps some of this is due to poor reporting.

There is an honest excuse for error, however, for the speakers get their information from the older books on jade. Much of that information has been proved wrong.

Much of the pardonable confusion arises from association of the word jade with China. Contrary to popular belief there is no jade in China. There never has been jade in China. Jade just happens to be the favorite material of the Chinese gem carvers and they have long been expert artisans in jade carving. There is only one jade authority who has ever claimed that jade was found in China and it is his book (Laufer) that most people consult when they want to brush up on the subject for a little talk to the club. All other authorities dispute Laufer in this.

S. Howard Hansford, probably the leading authority on jade in the world today, devotes much space in his new book *Chinese Jade Carving* to disprove Laufer. Hansford states "neither nephrite or jadeite is known to exist in its natural state within China proper, nor in Manchuria, Mongolia or Tibet. Siberia now sends some jade to the Chinese market but, apart from this, Chinese Turkestan is China's only source of supply and may prove to have been her only source from earliest times."

Some persons may do some hair splitting over this statement and say "well, isn't Chinese Turkestan in China?"

Now called Sinkiang, it became part of the Chinese Republic but it was never one of the eighteen provinces. A comparative example would be to call Alaska a part of the United States proper.

Since China is now getting jadeite from Burma, most of the fine early jade art pieces are jadeite and not nephrite. It is a popular belief that the jadeite is more valuable than nephrite. Actually, jadeite and nephrite are of about equal value. It is the amount of the carving on a piece that determines its value. The age of a piece is not important in establishing the value as a gem. Jadeite is the harder of the two but nephrite is the tougher and more difficult to work. The fact is that no jadeite came into China from Burma until less than 200 years ago so that all of the older pieces from China are nephrite. If a piece is jadeite it is proof positive that it is of comparatively recent origin. On the other hand all of the fine jewelry pieces coming out of China today are jadeite. Jadeite has never been found anywhere in Asia except at the present diggings near Mogaung in Burma.

The jade artifacts of the Aztecs and Mayas in America were almost always jadeite. This disproves the popular idea that the Indians received their jade by long treks over the Bering Straits from China. For in those days the Chinese had only nephrite. There is positively no connection between the Mexican artifacts and the present nephrite supplies of Alaska, California or Wyoming.

There are two great books on jade generally used as source material. The most important is one that the public never sees. It is one of the most remarkable books ever written. It is a catalog of the collection of Heber R. Bishop of New York; a work supervised by S. W. Bushell and G. F. Kunz. Only one hundred copies of a two-volume edition were printed in 1906. These were distributed to famous libraries of the world. The book is inaccessible to most people. The two volumes weigh 125 pounds.

Six years later Laufer's work appeared. Prior to the time of his death in 1934 he often said that he was go-

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ing to rewrite the book and correct the errors that he and others had found in the light of newer investigations. Laufer was probably the greatest student of Chinese art. He was a bibliophile but he was not a mineralogist or a gemologist and his opinions on jade were often wrong. They were wrong to the extent that several museums in America today number in their jade collections items that are not jade at all. We remember the story a friend told us of selling a jade collection to a midwest museum. The museum asked Laufer's opinion of it whereupon he said none of it was jade and none of it was old. Our friend was asked to make restitution. A laboratory examination revealed that Laufer was wrong. Tests were then made immediately upon items in other collections and many were found to be serpentine and other materials whereas nearly all of them had been identified as jade by Laufer.

We do not know the source of the jadeite used by the Mayas and Aztecs in carving their ugly figurines. But it is safe to assume that it was local material—both jadeite and nephrite. Some authorities say that jade artifacts have never been found north of Mexico City but we have in our possession a jade axe-head found in Sonora, not far below the California border. It was sent to us by Alberto E. Maas. We consider as ridiculous the hypothesis or a present "authority" that the Mayas must have been world travelers because their figurines contain Negroid and Scandinavian features. Stone Age man and later peoples made their implements and ornaments from native rock and there is no evidence that they made treks of considerable distances for any favored material until they became navigators. The American tribes knew the canoe only and that did not take them far.

The jade carvings of the Maoris in New Zealand are even uglier than the Mexican examples. These people lived in an absolute stone age until recent times; times within the memory of those still living. When Captain James Cook discovered New Zealand in 1769 he said that the Maoris were absolutely without knowledge of any metals. The New Zealand "greenstone" (as it is called locally) is nephrite. Little of it is available commercially because the

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Lapidary Journal
PALM DESERT, CALIFORNIA

New Zealand Government prefers to allow the natives to continue their jade-craft as they have for centuries.

“Greenstone” is thoroughly covered in a new English book by Elsie Ruff entitled *Jade of the Maori*. Several times we have read quoted remarks from club lecturers on jade to the effect that the New Zealand material is not jade but a gem in its own right. Others have been quoted as saying it is jadeite. Both popular ideas are in error as greenstone is definitely nephrite and no jadeite has ever been found in New Zealand. This author claims that no Maori today is working jade. Their own jade is held very lightly by New Zealanders themselves—perhaps because they never call it jade. We have under preparation an article on “greenstone” by the leading lapidary firm in New Zealand for early publication.

The same symbolism attaches to the Maori pieces as to the Chinese pieces—good luck. They do not believe it has any medicinal properties, as do all other races revering jade. It is reported that Field Marshall Sir Bernard Montgomery carried an ancient Maori jade piece from D-Day until victory in the last war. Like many of us he may have felt “if it doesn’t do any good it can’t do any harm.” More and more amateurs are adopting the custom of carrying a jade fingering piece, not as a good luck charm particularly, but because all true rock-hounds like to have “a piece of the earth in a pocket.” Such people usually prefer jade for the purpose because of its indescribable feel. We always carry jade in our loose change.

The amateur wants to know where jade exists now. Both jadeite and nephrite occur in Turkestan but so little jadeite has ever been found there that one can say with near-truth that only nephrite exists there at this time. Jadeite and only jadeite occurs in Burma. No jade has been found in India or China but jadeite has recently been reported found at Katoki, Japan. We have the matter under correspondence with Japan’s leading gemologist, Takeo Kume. Turkestan is now called Sinkiang and is under Red China.

Jade occurs in Europe in the Harz mountains in Germany; in southern Liguria, Italy; in Reichenstein, Silesia. At none of these locations does it occur in commercial quantities although blocks

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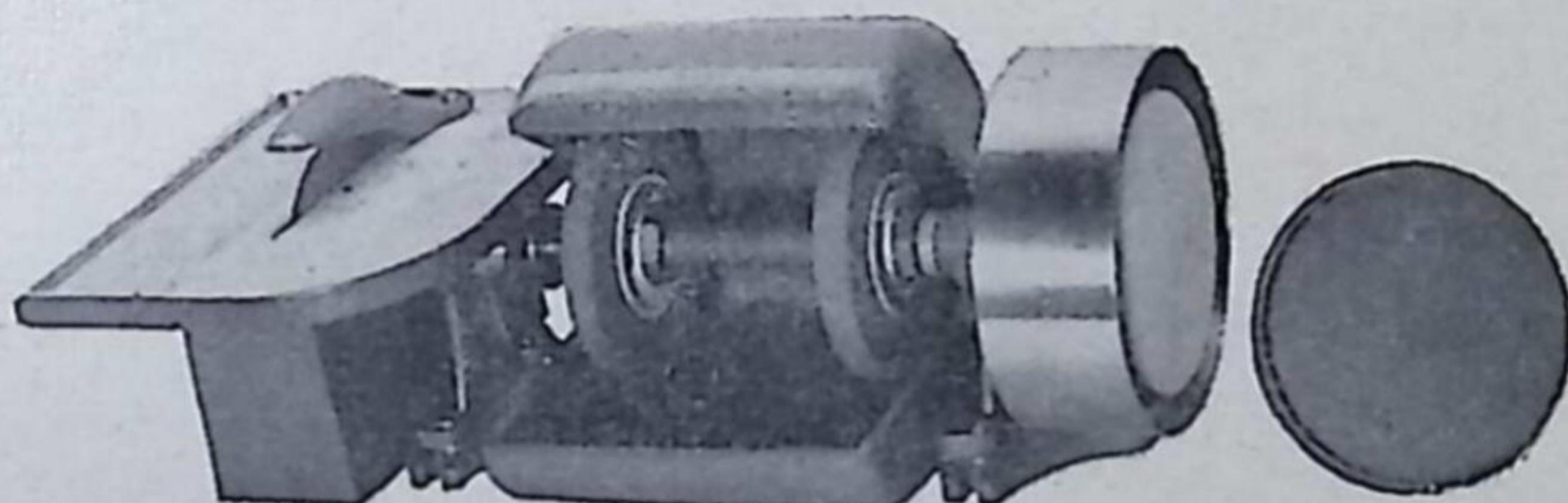
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weighing more than two tons have been taken from the Silesian location in the past. The ancient Swiss lake-dwellers made many artifacts of jade believed to have come from the Silesian location.

Jade occurs at several widely scattered locations in New Zealand and exists on the island of New Caledonia. No jade is known to exist on the continents of Australia, Africa or South America. There is an unconfirmed report that a few pieces have been found at Humboldt Bay in Dutch New Guinea.

In North America jade occurs in Alaska, British Columbia, Mexico, California and Wyoming. All of this is nephrite with the exception of the jadeite found at Clear Creek, San Benito County, California, in 1950. (See August, 1950, *Lapidary Journal*.) The Monterey, California, jade was found in 1940 and jade of poor gem quality, because of a high iron content, was found near Porterville, California, in 1949. The exciting news just now is the reported find of dark green nephrite and jadeite together; found as boulders in the North Fork of the Eel River in Trinity County, California. Isolated instances, apparently authentic, have been reported of small jade pebbles being picked up at many other California spots but all of them in northern California. It should be emphasized here that the "jade" from Happy Camp, often referred to as "California jade" is not jade at all but idocrase (vesuvianite), named Californite by George Kunz a half century ago.

The Alaska jade occurs as boulders about 150 miles north of the mouth of the Kowak River in what has been called Jade Mountain since 1890. Labeling it as a recent discovery is an error. Nephrite boulders have been found in the Lower Fraser and Upper Lewes rivers in British Columbia. In southern California the report of jade discoveries is about as frequent as a new discovery of a cancer cure—and just as authentic. Jade pebbles have been picked up at widely scattered points on the Oregon beaches and at many spots in Mexico. The boulders of southern Wyoming, now nearly exhausted, are well known.

Jade artifacts have been found at many places where rough jade has never been found. They have been found in Ireland, Holland, Britanny, France,

Spain, Italy, Asia Minor, Russia and Malta. More than 2000 jade specimens, estimated to be 6000 years old, have been fished from a single small Swiss lake.

The Chinese really started working jade about the time other people quit. The earliest Chinese objects go back about 8000 years and carving did not begin until about 5000 years later. Most speakers will relate how the Chinese word YU stands for jade. It does, but it stands for other hard materials too, especially gem materials suitable for carving that are not jade at all. Lots of fine carvings in serpentine were made in China before the Christian era and were described in records of the time as YU and that is why some museums contain fine art work in aventurine quartz and serpentine innocently masquerading as jade.

In presenting this information about jade we have consulted thoroughly all of the books presently available on the subject and many that are no longer available. All of these books are in our personal library. Persons interested in the subject can obtain the following jade books from us:

The Story of Jade by Whitlock and Ehrmann, \$12.50; *Jade* by Laufer (a reprint), \$12.50. Other books currently available are published in England and addresses of the publishers will be supplied if a postage paid envelope is received from the inquirer.

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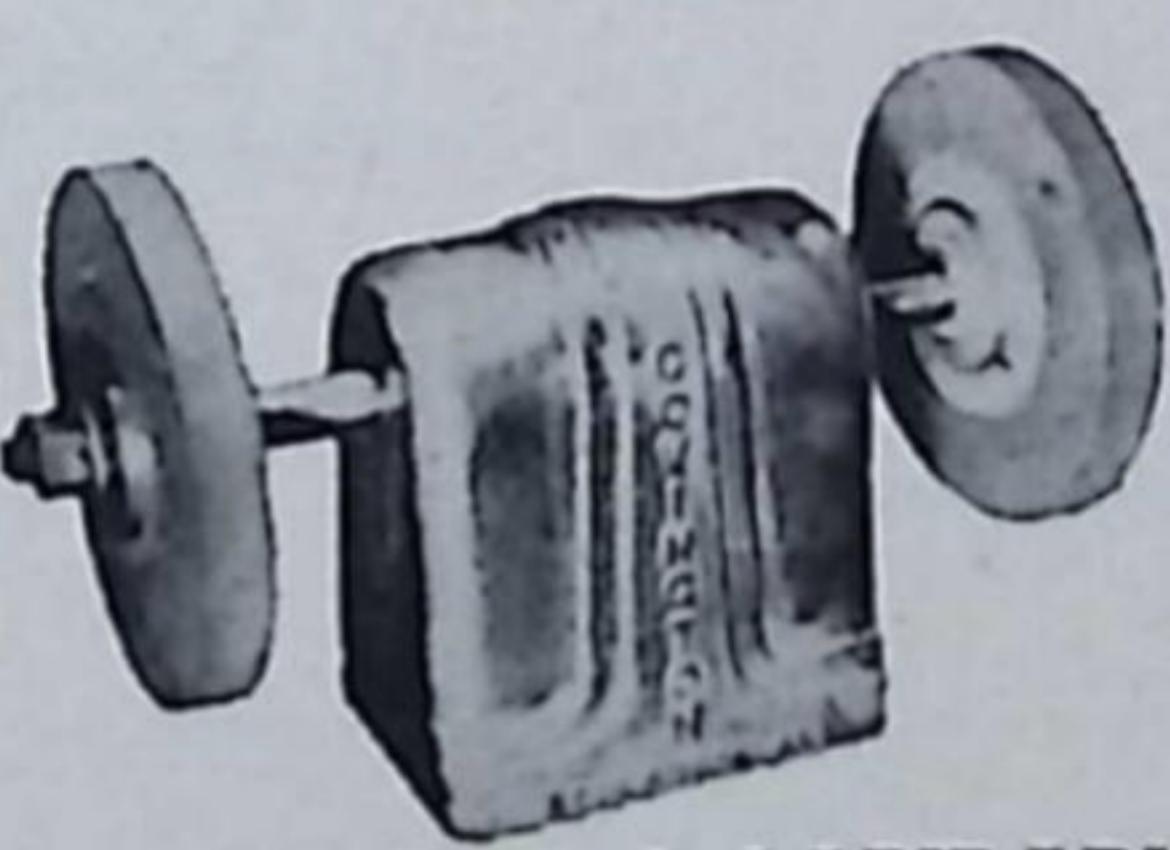


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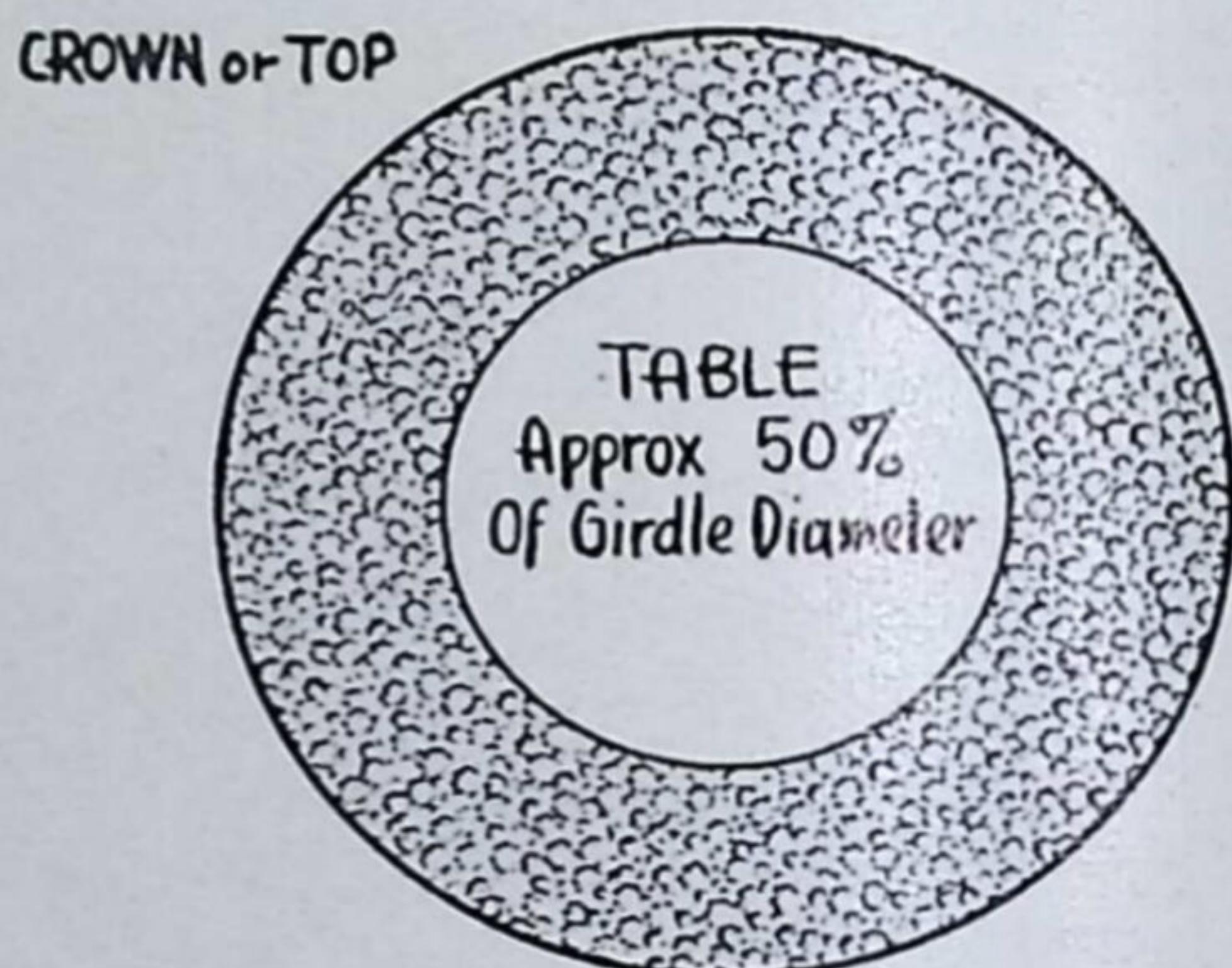
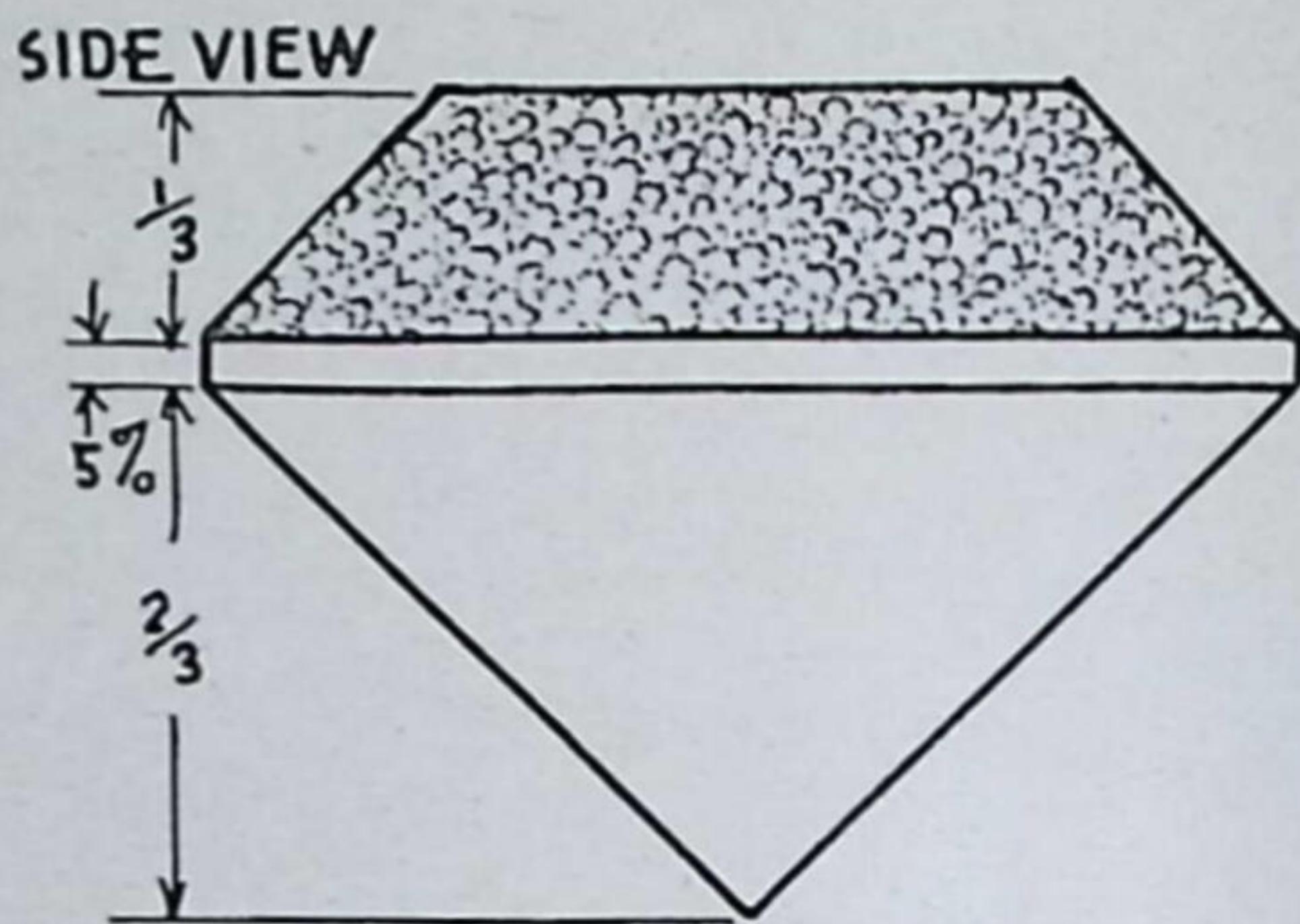
Redlands, California

◆ The Zircon Cut

FACETERS ATTENTION

We continue to take pride in presenting herewith the twelfth in a series of sixteen facet cuts in which we give the angles for cutting. These are the recommended angles for quartz. The latest angles for other materials are given below. This is a revision of earlier published lists and includes Titania. These charts have been prepared for us by M. D. R. Mfg. Co., Inc. (see ad on inside front cover) and it is through their courtesy that they are being published. Those desiring to get all of the cuts NOW can purchase the series in a book called THE BOOK OF GEM CUTS which can be secured for \$2.50 postpaid from either the authors (M. D. R. Mfg. Co., Inc.) or the *Lapidary Journal*.

STANDARD BRILLIANT PREFORM

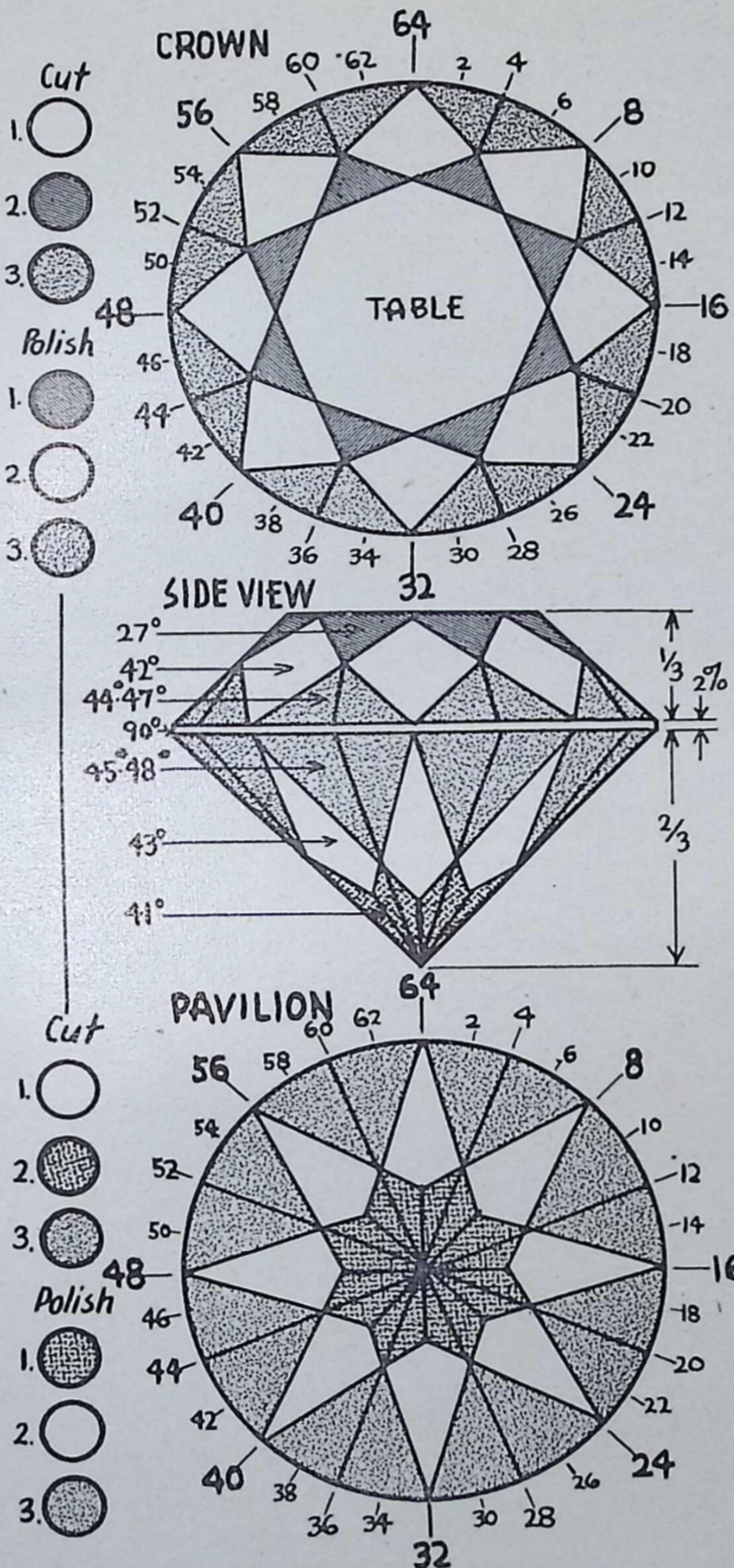


GEM	Hard- ness	Index of Refrac- tion	Angles		Tin Lap	Tin Type	Lead	Type	Pitch	Lucite
			Crown	Pavil- lion						
ANDALUSITE	7-7½	1.64	45°	41°	Tin Oxide					
APATITE	5	1.64	43°	39°	Tin Oxide		Linde A	Linde A	Tin Ox. Linde A	
BENITOITE	6½	1.76	37°	42°	Tin Oxide					
BERYL	7½-8	1.58	42°	43°	Tin Oxide Cerium	Tin Oxide		Tin Ox. Linde A		Cerium Oxide
CORUNDUM	9	1.76	37°	42°	6400 Diamond with Kerosene		German Tripoli	Chrome Oxide		6400 Diamond with Kerosene
EPIDOTE	6-7	1.75	37°	42°	Tin Oxide					
GARNET	6½ to 7½	1.73 to 1.89	37° 43°	42° 40°	Ruby Dix Tin Oxide			Linde A		
OLIVINE	6½-7	1.68	43°	39°	Ruby Dix					
PHENACITE	6-7	1.66	43°	39°	Tin Oxide					
QUARTZ	7	1.55	42°	43°	Tin Oxide			Tin Oxide		Cerium Oxide *
SPINEL	8	1.72	37°	42°	Ruby Dix	Tin Oxide		E-111 "Linde A Chr. Ox.		
SPODUMENE	6-7	1.66	43°	39°	Tin Oxide			Linde A		
TITANIA	6½-7	2.62 2.92	34°	41°	Linde A 6400 Diamond	Linde A		Linde A		
TOPAZ	8	1.62	43°	39°	Linde A Damas. Ruby Ruby Dix			Linde A		Cerium Oxide
TOURMALINE	7-7½	1.63	43°	39°	Ruby Dix Tin Oxide	Tin Oxide		Tin Ox. "Linde A		
ZIRCON	7½	1.92 1.95	43°	40°	Damas. Ruby Ruby Dix			Linde A		

*Preferred

ZIRCON CUT

(Angles for Quartz)



CROWN FACETS

Cut and polish table in 45° angle dop. Table should be approximately 40% of the width of stone at the girdle. Crown of the stone should be $1/3$ of the total depth of stone.

Grind 1st—Eight facets at 42° indexing 64-8-16-24-32-40-48-56.

Grind 2nd—Eight facets at 27° indexing 4-12-20-28-36-44-52-60.

Grind 3rd—Sixteen facets at 44° to 47° indexing 2-6-10-14- etc. Degrees will vary with size of table.

ORDER OF POLISHING

See polishing order on left, using same angles and indexing as was used in cutting.

Girdle—at 90° . Width approximately 2% of the depth of stone and may be cut first or last.

PAVILION FACETS

Grind 1st—Eight facets at 43° indexing 64-8-16-24-32-40-48-56.

Grind 2nd—Sixteen facets at 41° indexing 63-1, 7-9, 15-17, etc. (If preferred, culet facets may be cut at same indexing as girdle facets.)

Grind 3rd—Sixteen facets at 45° to 48° indexing 2-6-10-14- etc. Angle will vary so cut and try until indexing 62 & 2 meet at girdle and bottom points just meet the top of the culet facets.

ORDER OF POLISHING

See polishing order on left, using same angles and indexing as was used in cutting.

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♦ *Shop Helps*

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

In a recent lecture before the *Los Angeles Lapidary Society*, Armand De Angelis, professional lapidary, gave the following helpful hints:

Never force a cabochon into a grinding wheel. Go with the direction in which the wheel is turning. Keep the stone moving and don't stay in one spot on the wheel.

Use a double "F" buffer for smoothing your cabochons. Make your cabs symmetrical and round and avoid flat spots on the surface. Half a sphere brings out the effect of a star stone to its best advantage and even higher than one-half is good for star sapphire.

If you polish jade with green jade powder, one of the best polishing agents for that material, keep your leather buff roughened a little by rubbing it with sand-stone occasionally.

In polishing faceted stones you will find that a lap of copper, tin and type, or rolled zinc, charged with polishing diamond dust will not polish as well when it is new as after it has been used for quite a long time. When it becomes well broken in take good care of this lap.

In polishing rutile he sometimes makes a preliminary polish on a diamond lap before going to the final polish.

* * *

The following tip was taken from the bulletin of the *Glendale Lapidary and Gem Society*, as reported by Claire Gooch.

I had the pleasure of spending an afternoon with a man who faceted stones for Tiffany for many years and he polishes opal with greater ease and a smaller percentage of loss than most cutters. This is what he told me—Don't allow the stone to get hot—the most important step is the roughing out. It is at this point that you must orient the stone so that the most desirable colors will come to or near to the surface. The polishing is done with tin oxide on a felt buff and then finished on a small cotton buff *not quite dry* with tin oxide.

* * *

The following Helps were lifted from *The Voice*, the bulletin of the *El Paso Mineral and Gem Society*:

If you are having trouble and expense in getting curved laps upon which to place leather, lead or other discs with which to dress and polish flat surfaces, an old hub cap from an automobile makes an ideal one. Bore a hole in the center the size of your shaft, place washers below and above and screw the nut down securely.

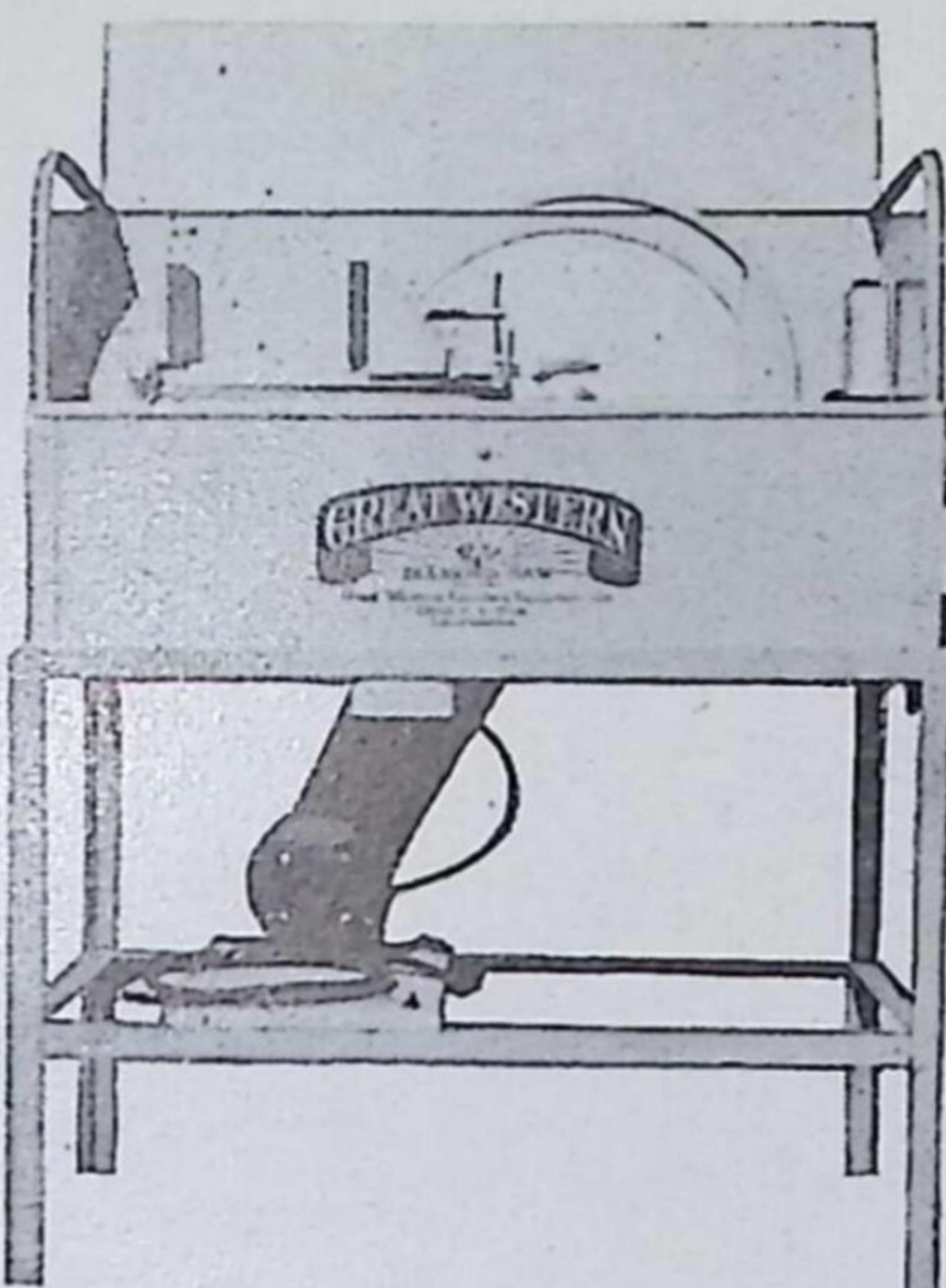
In the final finishing of onyx, ricolite or other soft sphere material, make caps of lead for the pipes and wire them on, as the harder iron of the forming pipes will scratch the soft materials. Remove the caps, mark them with the abrasive size that was used, place them in an envelope for use later.

It takes a little time, but to drill holes through a gem set from one side only, place the gem in a little plaster-of-Paris. After it hardens the diamond drill will go through neatly without any break-out around the rim of the hole. Some say to drill from both sides, but the slightest error in locating the drill for the second boring will break the delicate diamond drill and you are out about \$6.50.

A teaspoonful of Permatex Aviation type gasket material No. 3 added to about half a pint of dopping cement and mixed well with the melted cement, will make the stones stay on the dops much better. Never get dopping cement too hot, it ruins its efficiency.

It pays, when working up some of your nice agate into gems, or making spheres, to endeavor to finish up quite a number at one time. When all of your equipment is set up for a certain job, a lot of time is saved by not jumping from one sort of job to another. And besides, the experience which you are getting is fresh in your mind and the work is turned out much faster.

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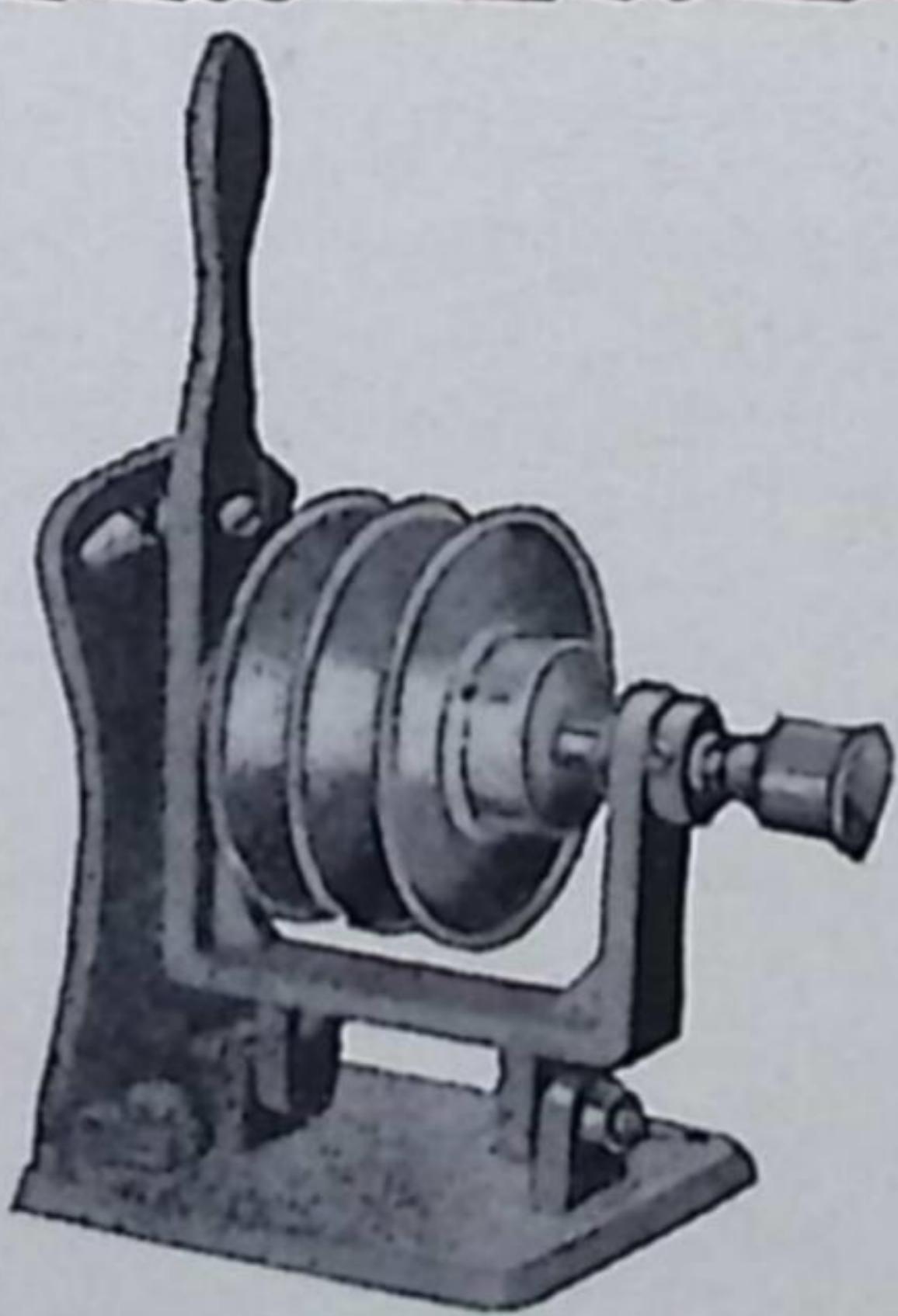
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ORIGINAL PIN DESIGNS FOR THE AMATEUR

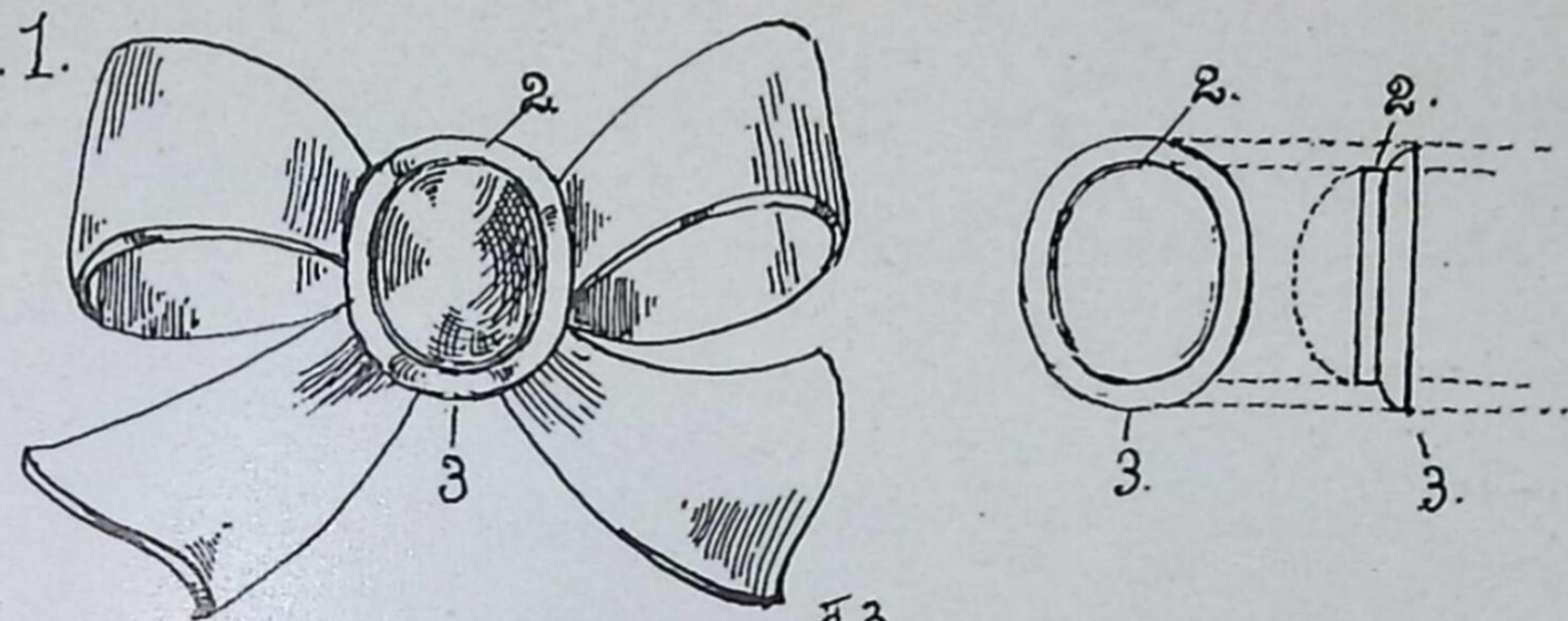
By WILLY PETERSEN-FAGERSTAM

The original pin designs pictured on the opposite page were created with the amateur in mind by Willy Petersen-Fagerstam of 6634 Lemp Ave., North Hollywood, Calif. Mr. Fagerstam is a designer of costume jewelry for many of the big Hollywood pictures. A description of the materials needed is offered by Mr. Fagerstam in the following paragraphs.

STERLING SILVER BOW PIN (Figure 1 opposite)—The pattern for the bow is made of 20 gauge sterling silver plate. Referring to the diagram opposite you will see that the points at 2a are bent forward to 3a and 3 is then bent and joined at 3a. All contact points are then soldered. Number 2 (the bezel) is made of 22 gauge fine silver and soldered to the back of the 24 gauge plate. A margin of $1/16$ " is left outside the bezel. This margin is cupped half round and is soldered to the center of the bow. The joint and catch is now soldered to the back side. This becomes a beautiful pin when a fine cabochon is set, after a mirror-finish is obtained in polishing the completed piece.

STERLING SILVER SPRAY PIN (Figure 2 opposite)—The bezels are made of 22 gauge fine silver on a backing of 24 gauge silver plate, 2, 3 and 4 are made of 18 gauge sterling silver plate, sawed and filed half round (see 2a). The stems (number 5) are made of 18 gauge silver wire, soldered to the bezels. The bow (numbers 6 and 7) are sawed from 18 gauge sterling silver plate. Before bending they are filed half round (as in 6a). The ends of the bow (number 8) are also sawed from 18 gauge plate. Numbers 6 and 7 are bent as shown in the diagram and soldered together at the points and then soldered at number 9, after being bent around the center. The sprays (numbers 1 and 5) are now soldered to the bow. Numbers 2, 3 and 4 are now collected and soldered to the bows and bezels with small silver beads being soldered between the bezels for strength and further ornament. The catch is now soldered to the assembled piece and the pin is pickled, scratch-brushed and polished. The stones are now set and the pin stem riveted to the joint. This pin is very effective in gold and is no more difficult to make than in silver.

Fig. 1.



3.

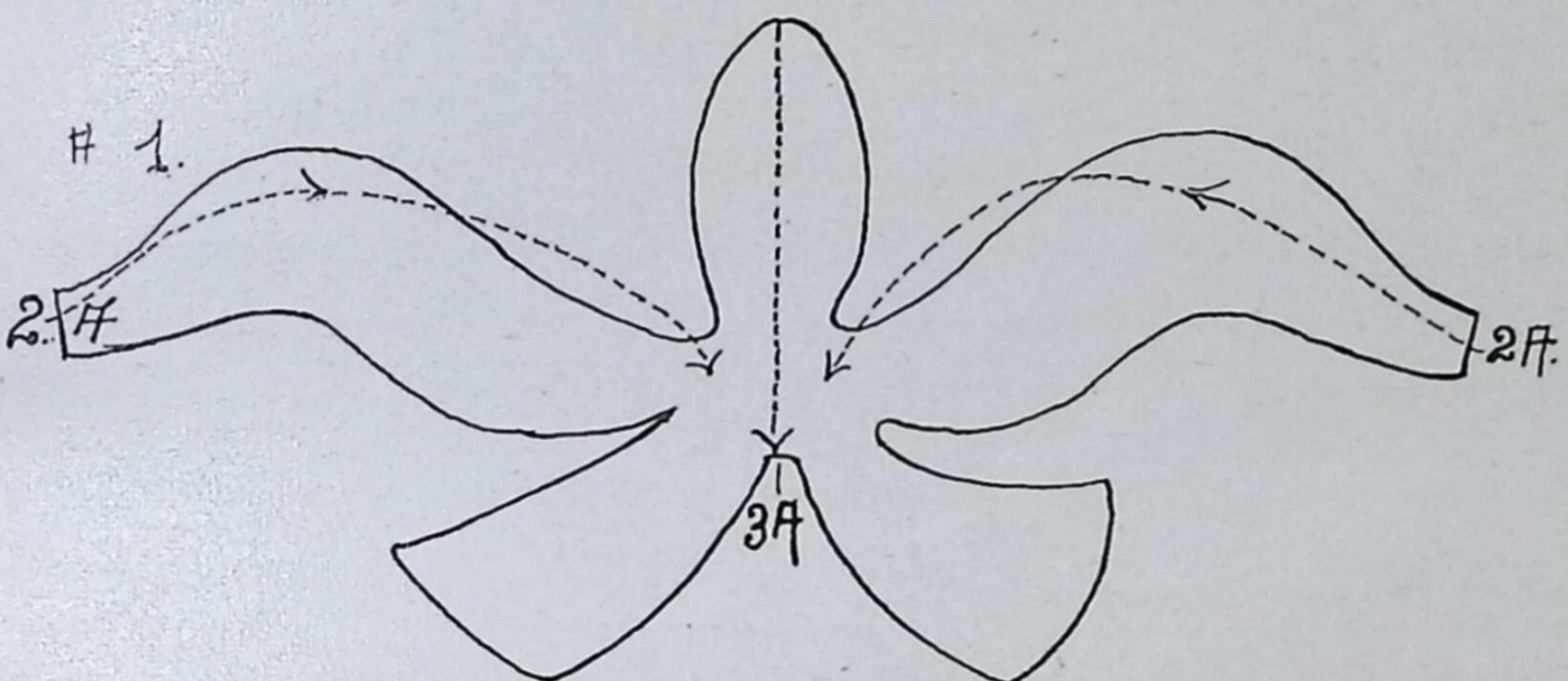
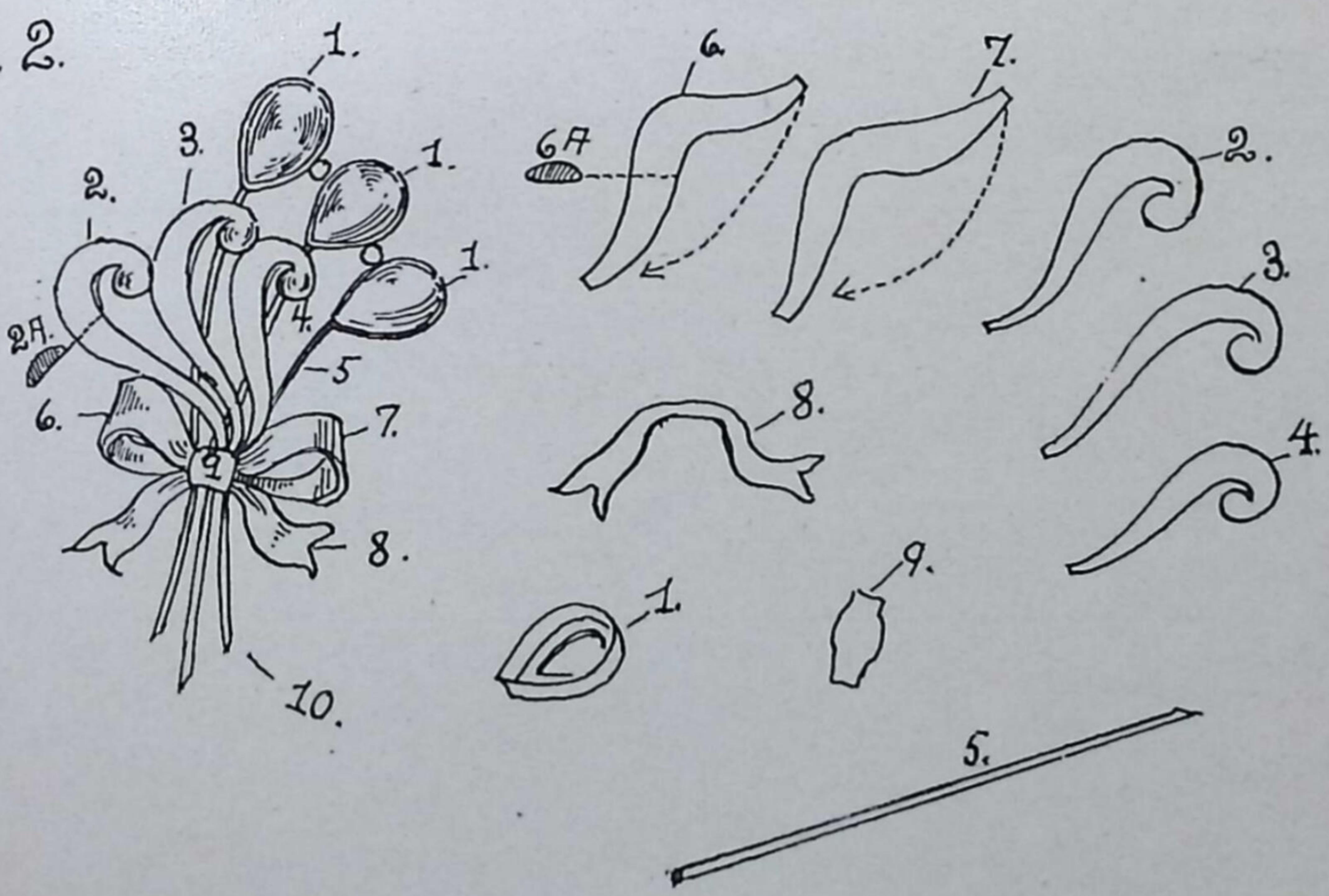


Fig. 2.



Calendar of Events

June 4th through the 30th—Display of the prize winning lapidary exhibits of the *Chicago Lapidary Club's* big May showing. At the Chicago Natural History Museum (Field Museum).

June 8-9-10—Annual convention and show of the *Rocky Mountain Federation of Mineralogical Societies* at Phoenix College in Phoenix, Arizona. Commercial dealer space through Peggy Kelley, Route 5, Box 554, Phoenix.

June 15-16-17—Wyoming Geological convention at the High School Auditorium, Riverton, Wyoming. The *Riverton Geological Society*, host. All are welcome. Free admission.

June 22-23-24—Largest mineral and gem show ever held anywhere. Annual convention and show of the *California Federation of Mineralogical Societies*. Under the sponsorship of *East Bay Mineral Soc., Inc.* of Oakland, Calif., the big show will be held in the Oakland Exposition Bldg., at Oakland with 30,000 feet of exhibit space available. See special article on Page 108 of this issue.

July 4th through the 7th—Rockhounds Annual Pow Wow at Vantage, Wash. Many interesting field trips and educational program. Lapidary demonstrations. All are welcome. Fine camping area.

July 7-8 (?)—*Midwest Federation of Mineralogical Societies* will meet at Houghton, Mich. Probably July 7-8 at the School Mines.

July 9th through the 21st—Same display as item number one. To be shown in the windows and sales rooms of C. D. Peacock, Chicago's leading jeweler.

July 21-22—Ninth Annual Agate Show of the *North Lincoln Agate Society* in the Ritner Bldg., Oceanlake, Ore.

September 1-2-3—Annual convention and show of the *American Federation of Mineralogical Societies* in conjunction with the *Northwest Federation of Mineralogical Societies*, with the *Tacoma Agate Club* as host. At Fellowship Hall in the Masonic Temple, South Second and St. Helens Ave., Tacoma, Wash. 10,000 square feet divided between member and dealer displays. For commercial space apply to A. A. Porter, 6515 Tacoma Ave. S., Tacoma 4. Other arrangements through Charles Wible, 909 S. Tacoma Ave., Tacoma 8.

September 22-23—Annual gem and mineral show of the *Mother Lode Mineral Society* at the Boy Scout Club House in Enslen Park, Modesto, Calif.

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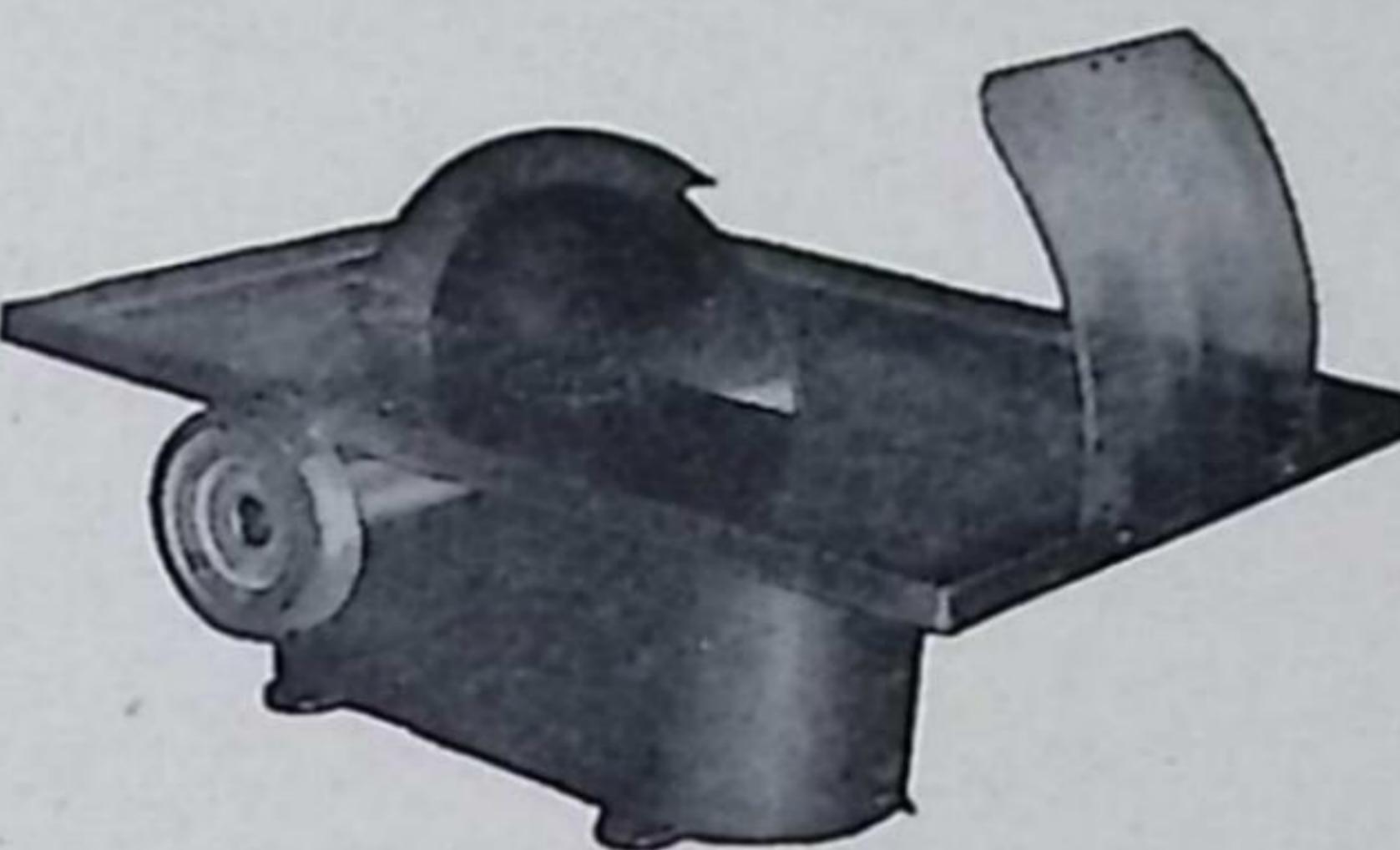
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LAPIDARY JOURNAL



PALM DESERT, CALIFORNIA

◆ Personal Facets

By LELANDE QUICK

When we went back to New York a year or so ago we got into a long conversation with Jimmy Conselman that lasted most of the night on the Twentieth Century Limited journey between Chicago and the bigger town. Jim was one of the greatest football coaches in history and he was almost sobbing over the defeat of his former Chicago Bears that day. "They lost their perfectionism, the thing that kept them unbeatable when I coached the team", said Jim. And then this nationally known speaker pointed his remarks with a story, which we have repeated in nearly every talk we have given since then. It offers a moral that an audience relishes and no story that we have ever told is received better. "Perfectionism can be carried *too far*," he said. Then he told the story of Frank McGlynn, the actor who played the part of Abraham Lincoln on the stage for so many years. "He played Lincoln so much" said Jim, "that he became a perfectionist. He *WAS* Mr. Lincoln. He dressed like Lincoln, talked like Lincoln and practiced all of Lincoln's mannerisms when he was off the stage. One day a couple of his friends were entering his apartment house as Mr. McGlynn was coming out. He bowed very courtly to them and one of the friends said to the other, 'you sure have to hand it to that fellow, he's a perfectionist.' 'Yes', replied the other, 'he'll never be satisfied until he's assassinated.' "

The story comes to us now and then in something we see or do. We see judges at mineral or gem shows looking for perfectionism among the amateur's work and passing by some real imagination that perhaps does not display perfect lapidary work. In our early days of learning gem cutting we had a friend who said "if I show a stone to anyone and they hand it back and say it's 'pretty good' I never show it again. If it's only 'pretty good' I know it isn't finished and the person is tactfully telling me so."

An old Chinese proverb says — *It is my imperfections that endear me to my friends. It is my virtues that annoy them.* Every Chinese artist always leaves some little imperfection in his work so that the connoisseur may find it and be pleased. The Navajos do the same in their rug weaving; always leaving a little hole in each rug for spiders to get through.

Carl Glick, author of *Shake Hands With The Dragon*, refers to this in reporting a conversation with his friend Kung. He said to Glick "when I write a letter to a friend, if I have but one misspelled word, the recipient of my letter will be made happier. He will feel superior. He will say to himself, 'Kung has been to several colleges. I have not attended one. In comparison I am supposed to be totally ignorant and uneducated — but look, I know when he misspells a word.' So he finds pleasure in discovering my mistake. It makes him feel important. I've had fun, too, for I knew all the time what I was doing, and I feel superior to him for feeling superior to me. I am happy. He is happy. My mistake has really pleased us both."

At times we wear a silver ring in which we have mounted a large carnelian cabochon that is noticeably lopsided. It was one of our early attempts and we are very fond of it. It makes a striking ring that always gets attention. Many admire it but occasionally we meet a "perfectionist" type lapidary who looks at it and says nothing. We know what he thinks and it doesn't bother us at all. He probably thinks "here's this fellow Quick, trying to teach the whole world to be lapidaries, wearing a cabochon that my child could turn out. Man, *I* can do better than *he* can." And then he feels good, like Kung's friend. We continue to like the ring despite its imperfection and we prize it above any of the few really perfect cabs we've turned out. After all, we've met a lot of "perfectionist" lapidaries and few of them are happy any more because they no longer have any fun at the hobby for they are *too good*. Do you think the golf champion enjoys a game of golf as much as a duffer? We hope we never overdue perfectionism and we feel sorry for those who do so.

It should be just about at this point where several readers will pause and resolve to write us about how wrong it is for a person in our position to advise

amateur gem cutters not to strive for perfection. We are offering no such advice. As our friend Conselman said, back in the first paragraph, "perfectionism can be carried *too far*". It is recognized, even among professionals, that the amateur gem cutter turns out better gems on the average than the professional because he spends more time on a gem. He's only doing it for recreation and to kill time anyway and he doesn't have to worry about the economic importance of an extra hour. The thing that we are trying to point out is that if you *never* attain perfection in gem cutting don't let it spoil your fun. If you *do* attain perfection don't be snobbish with those who cannot bring every cabochon to elliptical and polished perfection and every facet to geometrical Utopia. Take a lesson from Mother Nature herself for it is an axiom that nothing—*absolutely nothing in nature is perfect*.

The same advice applies to those who do silversmithing. James W. Anderson of Baltimore, who originated the idea of combined agate and silver table ware, says that the greatest compliment a friend can pay his efforts is to say that it looks hand made. If a piece looks too professional Mr. Anderson says he whacks it in a few places with a hammer just to be sure it will not be mistaken for a machined piece. Silversmiths can be fussier than gem cutters at times for they have design to consider. In conclusion we offer another story for them.

Our famous naval commander John Paul Jones was the son of the head gardener to the Earl of Selkirk in Scotland. In the gardens, which he attended with fanatical fussiness, there stood two summer houses. One day he caught a visitor stealing fruit and locked him in one of the houses. When the Earl came out to see about the matter he found John Paul Jones locked in the other summer house. "Was he stealing fruit also" asked his lordship?" "No sir", replied the gardener, "I just put him in for symmetry."



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◆ *Beginners Page*

Lawrence O. Chapman of Franklin, N. J., writes that he notices references now and then in the lapidary literature to "stone burns." He wants to know what they look like because he doesn't understand the term.

If Mr. Chapman is an amateur gem cutter and he has never seen a stone burn he is a very lucky man. In fact he isn't even initiated into our fraternity if he has not had the experience of laboring faithfully over a treasured piece, and then with the high satisfaction that comes with a perfect grinding to an ellipse and an excellent sanding job he goes to his felt polisher. Fairly drooling in anticipation of the beautiful polish he is about to acquire on his masterpiece he presses it hard to the felt buff, thickly daubed with his favorite polishing powder and almost dry. Then he holds it under the light to see how it is coming along and he sees the beautiful blue of his turquoise cab has turned to black, or the more beautiful blue of his chrysocolla gem has white freckles. A sinking feeling comes over him that's worse than receiving a letter from his draft board that begins with "Greetings, etc., etc." Brother, that's a stone burn! Don't look now—but your grip's showing. Too much pressure means too much heat and too much heat means cracks and "burns."

We don't believe as many amateurs experience this nightmare today as they did ten years ago because they approach the grinding bench with greater knowledge, gleaned from a book they purchased or advice they received from an experienced cutter. Many a chrysocolla gem was ruined for us until we learned the hard way that we should use a leather buff and keep it very wet rather than attempt to do every stone on our felt buff. When we learned to touch the cab to our cheek frequently to feel how hot it was we finally got away from burns for it didn't take long to realize that when the stone burned our sensitive cheek it was time to allow it to cool and time to apply plenty of water to the buff and to thin the powder by pouring in more water.

There probably has never been a be-

ginner who used too much water when polishing and there probably never was a beginner who didn't use more powder to polish his first dozen stones than a professional uses to polish a thousand. The beginner must learn that it isn't true that if a little powder gives a good polish a lot of it should do a super job.

We use a cracked saucer in an old cigar box and a small cheap paint brush for our equipment. We keep the tin oxide in a big salt shaker and once in a great while we sift about two teaspoonsfuls into the saucer and fill it with clean water. We stir this well with a dop stick and allow it to settle. When we are ready to polish on a felt buff we soak a rag in water and "wash" the felt wheel (moving) until it is thoroughly soaked with clean water. Then we agitate the polishing mixture just a little with the paint brush and apply the watery powder to the center of the wheel, letting centrifugal force spread it to the outer edge. We then start the cab at the outer edge and work toward the center, using only enough pressure to keep the cab on the buff. It must be at least eight years since we "burned" a stone and we're still working on a pound of cerium oxide we bought that long ago.

It is because of bad experience in burning stones that many lapidaries throw the felt wheel into the trash can and use a leather wheel from there on. We believe this is wrong for much time is saved using a felt buff on hard materials like agate, while softer materials polish better on leather. If it is true in faceting that "the harder the material the harder the lap" then it should be equally true with cabochons that the softer the material the softer the buff.

Of course many a stone is "burned" before it ever reaches the polishing buff. That is to say it becomes cracked because of too much heat in the grinding or sanding operations—too much heat from too much pressure. The whole solution is patience. The impatient lapidary wants to hurry the work and the best way to hurry it is to press hard and grind and sand faster. But the resulting heat cracks the gem and breaks the heart.

(Continued on Page 136)

AUSTRALIAN OPALS



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Cutting Opal, assorted colors (about size illustrated) from \$2.00 to \$50.00 oz. Good trial parcel (about 20 stones) \$15.00.

Boulder Opal Cabinet Specimens. From 2" to 6" in size, in brown rock, with Green, Blue and Fiery colors. Many beautiful pieces, from \$1.00 to \$5.00 to \$10.00 each and upwards.

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This combination of stone and box is such that each may readily be made into a ring or lavalliere by the amateur silversmith.

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(Continued from Page 134)

Anent this impatience see the article entitled *Take It Easy* by Brooks Shepard of Saxtons River, Vt., which appeared on Page 290 of the October, 1950, *Journal*. He wrote—"I've thought a lot about this problem of impatience because it has wasted more of my possible ability than any other weakness I can recall. In my early gem grinding experience my worst mistake was that of pressing too hard against the wheel. I've talked with a few other amateurs and a couple of professional men about this natural impatience and it seems to be almost universal among beginners and not unknown among professional lapidaries. It's the leisurely attitude that counts. I use enough pressure to make a common house fly uncomfortable but not quite enough to squash it—a delicate distinction but you'll get it if you haven't forgotten your barbarous childhood. When I'm tempted to hurry I slow myself with this thought 'About 80,000,000 years ago the dark Creator of an untamed universe dashed off this little hunk of rock. He spent a couple of hundred thousand years on it. You think it has artistic possibilities and you're right. And now, you hasty old fool, you can afford to spend half an hour shaping that rough sketch into something the original Artist wouldn't gag at when He saw what you'd done.'"

"I have found that even the meanest mind is bothered by the problem of how fast to sideswipe while you shape your stone. Assuming that you have a really good light on your wheel (which you probably haven't but eventually will) your rectangular cabochon offers no problem. You wobble it slowly back and forth in a straight line across the wheel, while the unheeded spray saturates your shirt and seeps under your belt into your undermuslins. But a different and very complicated problem arises when you take a round or oval hunk of potential glory. The mental problem is that you have to keep your angle of attack fairly constant, not fus-sily accurate, for the final slope-angle correction is very easy. You have to keep your wheel smooth by side-swiping your gem across the face of it."

"Long ever ago, a red-headed, un-educated, hot-tempered young Irish-American was trying to convince the Boston Metropolitan Police that he had

the makings of a perfect policeman. The sergeant assigned to train him thought different.

"'Be aisy,' said the Sgt.; 'when ye want to persuade a decent Bostonian, ye don't flatten the back end of his fool skull with yer billy-bat.' And so the candidate, who had really good brains beneath a thickish skull with a hardness of approximately 8.7, trained himself into restraint with a terrifying ritual aimed at himself.

"'Be aisy,' he would say to himself; 'be aisy, ye murderin' damn fool; be aisy, Padraig Aloysius O'Brian in yer pride. God gives ye no right to kill law-breaking heretics with yer club and yer good name and all, at all. Be aisy—and if ye can't be aisy, be as aisy as ye can.'

"Be aisy, my fellow-blunderers. I'm sure it's the most important lesson we have to learn before we begin to display our cabochons in a conspicuous place where our guests will be sure to notice them and say: 'Oh, how lovely, and how in the world did you ever do it?'"

And if you *really* want to see a "stone burn" just try the advice offered recently elsewhere to mix the tin oxide to the consistency of thick cream. Then let the felt buff get dry and brother will you get a burn.

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(Gem Village)

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IMPORTANT NOTICE

George Burnham of Burminco left home on June 19th last year on an extended mineral and gem collecting trip. His journey started in Norway and went all through Europe and the entire continent of Africa. From there he went to Madagascar and is now on the way to South America.

OVER 6 TONS OF CUTTING MATERIAL AND FINE MINERAL SPECIMENS ARE NOW ON THE WAY FROM AFRICA.

George is not expected home until Summer and because of the lengthened trip we shall not be able to attend the Oakland convention.

But drop in to see us if you are down our way. We are near Los Angeles. Shipments should be arriving weekly from here on. And don't fail to

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Gems From The Mail Bag

I thought the latest issue of the *Lapidary Journal* (April '51) was the best ever issued. Every article was meaty and newsy and the illustrations and makeup were excellent. This is a professional opinion from one with 26 years experience in book, newspaper and magazine publishing. Russell P. MacFall of the *Chicago Tribune*, author of *Gem Hunters Guide*.

* * * * *

The *Journal* is practically our bible for lapidary work. One of our ambitions is to come down to the states and visit some of you folks and see how things are really done. Mary L. Sutherland, Vancouver, British Columbia.

* * * * *

You might as well take my tobacco away from me as to deprive me of my *Journal*. W. L. Davis, Salem, Oregon.

* * * * *

Your *Journal* is excellent. It fulfills my lapidary needs with rocking chair comfort. Colonel Ralph B. Fairchild, San Antonio, Texas.

* * * * *

Just received my first edition of the *Lapidary Journal* and realized what I have been missing. It's a wonderful magazine for anyone interested in gems and working with gems and metal. Dr. Sidney L. Dunbar, Campbellsville, Kentucky.

* * * * *

May we take a little of your time to congratulate you on a very excellent *Journal*. There is at least something interesting in it to read. It is too bad that it cannot at this time be published every month. But better to have it every other month and have it good than every month and mediocre. William A. Baley, Morris, Minnesota.

* * * * *

You are doing a fine piece of work with the *Lapidary Journal* and all five members of our staff read it from cover to cover—so keep up the good work. Until you started the *Lapidary Journal* the amateur as well as the commercial cutters had no way of reaching the public in the nice friendly way that you do it. Thora Rollins, *Gems Limited*, Phoenix, Arizona.

Willy Petersen-Fagerstam
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I consider the *Journal* the finest magazine on the market. I was hoping to be notified that the price would be higher this year and that it would be published monthly. I am looking forward to that day. June Riley, Cayucos, California.

* * * * *

I am enjoying very much your *Journal* which I am receiving now in the second year. Should ever you or one of your friends come to these parts please see me up. I shall be gladly at your disposition. Rudolf Th. Opavsky, Convencion 1403, Montevideo, Uruguay.

* * * * *

I have read most all of the issues and hope some day to own all of them. No finer library of the lapidary arts would be possible. The *Lapidary Journal* is absolutely in a class by itself. If it is ever possible to maintain the same high standard of excellence in 12 copies per year instead of 6 I would be for it 100 per cent. R. Y. Quinn, Wichita, Kansas.

* * * * *

The *Lapidary Journal* has always meant a great deal of relaxation for me because of its beauty in presentation and up-to-the-minute information. May you continue to lead the field, George Haboush, Brooklyn, N. Y.

* * * * *

Your last issue (Feb. '51) is particularly inspiring and I have read it from cover to cover as usual. I am pleased to see you have articles of interest for silver craftsmen and I am fascinated by the dragon pin on the cover. Bouquets for making each issue so exciting! Dorothy H. Gleason, *The Puppetown Players*, Cincinnati, Ohio.

* * * * *

The enclosed \$2.00 for my subscription to the *Lapidary Journal* is the best two dollars worth I ever got. William E. Clark, *Clark's Gem Shop*, La Porte, Ind.

* * * * *

Your magazine is fascinating even to someone like myself who has only cut three or four cabochons and spoiled half of them. The personal note that crops out occasionally here and there is very enjoyable and makes this subscriber feel that the Editor must be a pretty nice sort of fellow personally. P. H. Woods, Hyattsville, Maryland.

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ROCK HOUNDS TO GATHER

The "All Rock Hound Pow Wower's" will hold their annual convention July 4-5-6-7 at Vantage, Washington, on the Columbia River. The members are made up of people from all over the country. The Pow Wowers were organized in 1949 with 108 people in attendance. In 1950 the gathering drew 404 people. Nine states and Washington, D. C., were represented. Forty-six towns in the state of Washington also had representation. There were guest speakers from the State Parks Department, University of Washington Anthropology Department, and many others.

This year they will have scientific talks, field trips, demonstrations of lapidary equipment and talks on silver work, boat rides on the Columbia River to view the Indian writings and glyphs. These writings will be covered by water forever when the Priest Rapids Dam is built.

Everyone is welcome. Bring your own camping equipment. The nearest available cabins are at Ellensburg, Washington, 28 miles from Vantage. Good drinking water, plenty of room, cafes, store and gas station for your convenience. Pictures in color and camp fire chin-fest every night. Bring your swapping rocks.

Visit the famed Gingko State Park and museum while there. You will enjoy every second and will have an outing that you will never regret or forget.

For further information write P. N. Brannan, West 1414 York Avenue, Spokane 12, Washington. Chairman of the Board of Directors.

ZIONISTS TO SEEK STOLEN TREASURE

A group of prominent Zionist leaders believe it still is possible to recover the Jewish treasure stolen from the Temple of Jerusalem by Roman Emperor Titus in 70 A.D.

Negotiations are reported to be going on between the Zionist group and the Italian government for permission to dredge the river Tiber in Rome around the little island of St. Bartholomew where, according to tradition, the treasure was sunk in 410 A.D., when Gothic barbarians led by Alaric sacked the city.

The lost treasure was of immeasurable value and included the famous candelabrum of Moses with seven arms, made

of solid gold encrusted with precious stones, and the historic trumpets of King David, also made of solid gold.

The Zionist group was said to be particularly anxious to recover the candelabrum which the group plans to present to the reconstituted Jewish state of Palestine. Moses' candelabrum and the Torah, that celebrated the return of Mosaic laws, are the most sacred relics of the Jewish religion.

The Jewish treasure was in the temple at Jerusalem until the city was destroyed by Titus' Roman soldiers. At the end of the campaign in Galilee, when the emperor returned to Rome, the treasure was taken there and had a prominent part in the triumphal cortege that celebrated the return of the conqueror of Jerusalem.

Various scenes from the cortege were reproduced in the bas reliefs which adorn the Arch of Titus in the Roman Forum. One shows a heavy cart with the candelabrum and other pieces of the treasure being dragged along in the triumphal procession, followed by enslaved Jews, prisoners of war.

The treasure was kept in the Imperial Palace on Palestine Hill until the fall of the Roman western empire. In the year 410, when Alaric's barbarian Goths put Rome to sack, Jewish descendants of Titus' prisoners stormed the Imperial Palace and grabbed the treasure.

Fearing that they might lose it again to the Goths, they sank it in the river near St. Bartholomew's Island, which stood just opposite the Jewish quarter, planning to recover it later. However, for unknown reasons, this never was done.

An attempt to recover the treasure was made in 1938 by a Jewish syndicate headed by an American engineer, Thomas Stewart.

A detailed plan was submitted then to Mussolini. The syndicate offered the Italian government half the value of all objects recovered. All costs of the operation were to be borne by the Zionist syndicate. The Fascist dictator never answered the offer.

* * *

For all your days prepare,
And meet them ever alike;
When you are the anvil, bear—
When you are the hammer, strike.

—Edwin Markham.

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RARE SULFATES FEATURE OF

OAKLAND SHOW

(As reported by R. O. DEIDRICK)

An exhibit of interest to mineralogists will be shown by Glenn E. Daniels and Wesley Mayder of the *East Bay Mineral Society* at the Oakland show in June. These young men have sealed fragile specimens in plastic bubbles. They also took Kodachrome pictures of the minerals in place, which will be used in a talk on this mine given by R. O. Deidrick, President of the *California Federation of Mineralogical Societies*, Friday evening, June 22.

The Leviathan sulfur mine is one of the most unusual mines in California because of the large amounts of practically pure sulfur found there, some of which contains small amounts of selenium. This mine was discovered in the latter part of the nineteenth century and was developed for copper.

However, after working through the oxide zone, large deposits of sulfur were encountered and upon further development, two large lenses of sulfur and sulfur-containing melnikovite (cryptocrystalline iron pyrites), sometimes called black sulfur, were found.

It was in these underground workings that the host of unusual minerals were found. They were formed as secondary minerals due to the alteration of the copper and iron minerals. The surface water percolates through the ore deposit, forming sulfuric acid. This combines with the minerals to form sulfates and, with the underground development work providing drainage ways for the mineral solutions and the extreme underground heat evaporating the water, these rare minerals are formed.

As the underground workings were to be sealed, the photographers and collectors expended much effort to obtain photographs and a suite of minerals. Should the owner ever operate the mine, the sulfur will be mined by open pit methods because of the lower cost of operation. Never again will anyone have access to these deposits.

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HUGE DIAMONDS FOUND

The Transvaal's Premier Mine, which produced the Cullinan diamond, the world's biggest, and the famous Jonker, has now given up a third magnificent stone, it was recently reported by the Associated Press.

The new find is of perfect color, half the size of a matchbox and weighs 195 carats. It is worth about \$168,000. It is described as blue-white and is being sold in normal trade channels. Its value is in its perfect quality rather than its size.

The Cullinan diamond, found in 1905, was more than three times the size of any known stone. The Excelsior, 969½ carats, until then was the largest. The Cullinan was purchased by the Transvaal Government and presented to King Edward VII of England. It was then cut into nine large stones.

The Jonker diamond, weighing 726 carats, was found in 1934. It was sold to an American for \$750,000 and divided into twelve stones, including Jonker No. 1, the largest emerald-cut diamond in existence.

Shortly after the foregoing diamond was found another blue-white diamond about the size of a golf ball was found. It is calculated to be worth \$225,000 and is said to be probably the largest and certainly the finest gem ever found in the mine, that of Consolidated Diamond Mines at the mouth of the Orange River.

It is a pure blue-white, the most valuable kind of diamond.

Sir Ernest Oppenheimer, chairman of the Anglo-American Corp. of South Africa Ltd., said "It is the finest diamond in color I have ever seen."

It is 160 carats, 1½ inches long, three-quarters of an inch thick and 1 inch wide.

Experts say the roughly-wedged shape of the stone indicates it may be only a chip of an even larger stone.

GOLD ORE USED AS "BAIT" IN FUND CAMPAIGN

(As reported in the LOS ANGELES TIMES)

School kids in the fabled mining camps of Cripple Creek and Victor, Colorado, are trying to build a new school with gold ore.

The glittering yellow metal lured thousands and thousands of prospectors to that area 75 years ago. The youngsters hope souvenirs of the same stuff

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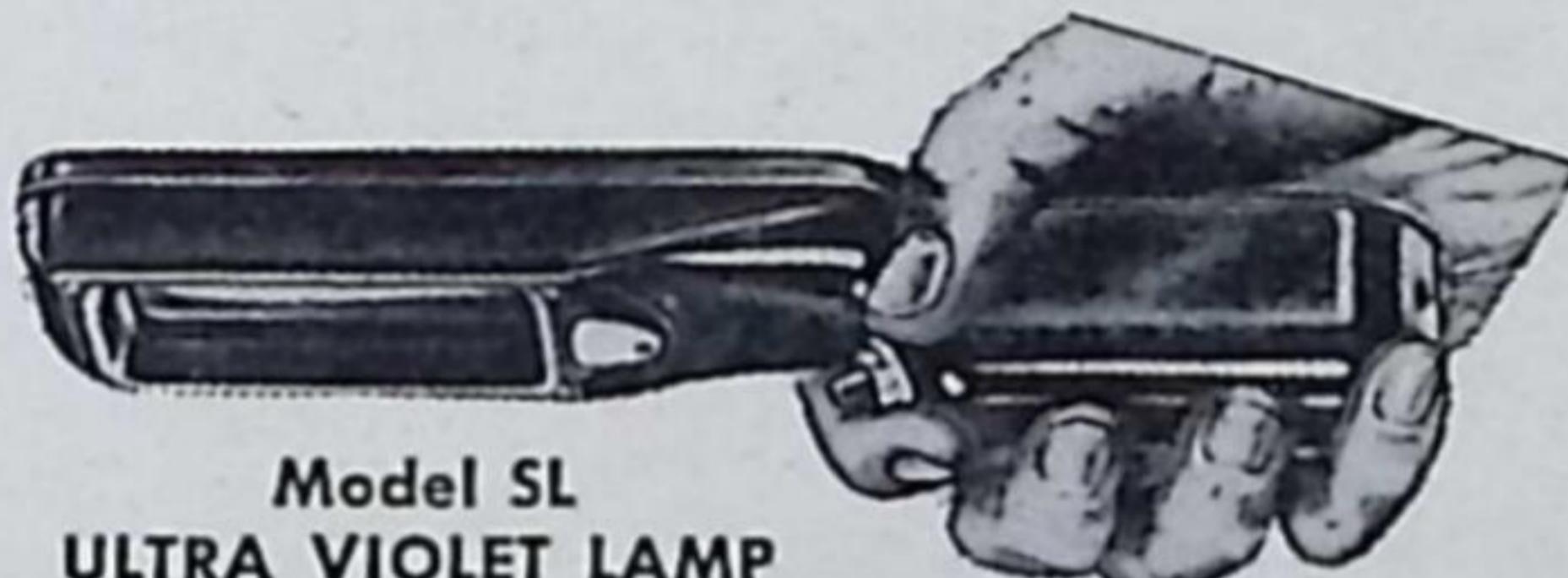
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These marbles make nice cabinet specimens. If you are interested in making jewelry, cut one marble in half, set into earrings, or drill a hole and hang the marble on a chain for a necklace. These marbles make unusual and beautiful jewelry at little cost to you.

12 mm. through 14 mm. \$0.60 each
15 mm. through 17 mm. \$0.90 each
18 mm. through 21 mm. \$1.25 each

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Write for Prices and Descriptions

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GRAY, GREEN, BLACK JADE, \$1.00
per square inch

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Sierra Madre, Calif.

will lure thousands and thousands of dollars for the new building.

They're trading samples of gold ore for dollar bills.

Postmaster Leslie Wilkinson evolved the scheme and everybody in the two adjoining towns of Cripple Creek and Victor has pitched in.

The few miners still here spend their spare time mining gold ore that is unprofitable for milling. Other townspeople and the kids bust up the ore into small specimens and prepare the souvenirs for mailing.

They send out the ore samples and a printed sketch about the fabulous mining camp to anyone who mails in a dollar.

When the towns of Victor and Cripple Creek had a population of 60,000 there were several schools. Then the gold veins petered out and the population drifted away. Now there are 1200 people in the two towns and the two remaining schools accommodate 375 students.

The Cripple Creek school was built in 1896 and the Victor school in 1898. As one townsman explained: "both are about to collapse from sheer age and fatigue."

The school pupils mailed 32,500 postcards advertising their scheme to every State, Canada, Alaska, Peru, England and Hawaii.

ANNUAL CALIFORNIA FIELD TRIP PLANNED

(As reported by Robert Deidrick)

The annual field trip of the *California Federation of Mineralogical Societies* will be held June 25, 26 and 27, beginning Monday morning after the close of the California Federation convention at Oakland on Sunday night, June 24. This trip will comprise several outstanding geological and mineralogical localities in Northern California.

The trip has been arranged to provide an opportunity for the study of geology and how the various minerals were formed. The *East Bay Mineral Society* is sponsoring the three day field trip and Robert Deidrick, assisted by experts in lapidary, mineralogy and geology, will act as leader. There will be a field testing laboratory where unusual materials found can be tested.

At the convention headquarters there will be a display showing the rough and polished materials as well as specimens

of the minerals to be found on this trip. To further acquaint you with the geology of the country and the material to be collected, there will be a brief lecture on the field trip in general on Sunday, June 24.

The trip has been arranged so that those wishing to camp can do so. There will be hotel or motel accommodations for persons desiring them. It will be necessary to make arrangements *in advance for the hotel or motel reservations.*

On Sunday, June 24, there will be a short field trip to the Leona Heights pyrite mine to collect melanterite, halotrichite, boothite, and pyrite crystals. The three day field trip will start at 9:00 a.m. Monday, June 25, in front of the exposition building in Oakland.

From there we will journey north to the Fairfield onyx deposits. It will be necessary to walk about a half mile to the deposit. You will need a heavy hammer, prospector's pick and knapsack. You will collect fine calcite onyx in sufficiently large pieces for beautiful book-ends or spheres. There is also crystallized aragonite there.

From the Fairfield onyx deposit we will go to the Kohler Chase asbestos mine. The next stop will be the famous Knoxville mine and Reddington mine. There we will collect the only true quartz-onyx in California, also opal, chrysoprase, barite, metacinnabar, cinnabar, pyrite, marcasite, calcite, halotrichite, and myrickite. This may also be the first night's camp. Those having motel reservations will journey to Clear Lake.

The next morning (Tuesday, June 26) we will visit the Sulfur Bank mine to collect fine sulfur crystals, cinnabar, opal, and stibnite. From there we will take a short side trip to Borax Lake where borax was first mined in California.

Journeying south, we will go over Cobb Mountain and collect Lake County "diamonds" for those who do faceting. We shall also stop at a pectolite locality. This material will cut and polish as well as fluoresce and phosphoresce. We will stop at Mount Saint Helena, visiting the old silver mines.

From Mount Saint Helena, we will visit a petrified forest and proceed to the Sonoma County geyser basin. There will be camping as well as hotel accommodations at the geyser basin.

Geyser Basin is one of the most interesting areas of its kind. Here the so-called geysers eject steam into the air for a distance of a hundred feet or more. These are true fumaroles and here minerals are still forming. The following minerals may be collected: sulfur crystals, alunogen, diallage, epsonite, gypsum, halotrichite, pyrite, marcasite, mascagnite, mendozite, pickeringite, stellerite, williamsite, cinnabar, native mercury in sandstone, and chrysolite. You can also enjoy good trout fishing in Big Geyser Creek, take radioactive steam baths and bathe in an outdoor swimming pool. From there we will return to Oakland by way of Skagg's Springs where we will collect some of the highly fluorescent curtisite. It will be necessary to have heavy hammers, prospector's picks, cardboard boxes and bottles to collect these specimens.

For reservations please notify Robert Deidrick, 7051 Broadway Terrace, Oakland 11, California.

* * *

The reason a dollar won't do as much for people as it once did is that people won't do as much for a dollar as they once did.

—Eddie Rickenbacker

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All of above (total \$6.00) for \$5	
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News Briefs

Navy officials have announced that the Mojave desert area containing Lead Pipe Springs and Blue Chalcedony Springs, favorite haunts of California rockhounds, have been closed indefinitely to visitors. The closing is necessitated, according to officials of the nearby U. S. Naval Ordnance Test Station, because of hazards of unexploded ammunition within the area and the presence of classified equipment.

All roads leading into this restricted military reservation from the north, west, and south have been barricaded, and warning signs have been erected. Announcement will be made when the area can be reopened.

* * *

More than \$2,000,000 worth of Russian crown jewels went on display recently to help Americans in their fight against cancer.

The collection of gems, once the prized possession of the Czars, found its way to a 57th St. gallery in New York where thousands gazed upon it at 60 cents a head.

The royal art objects are included among the 300-odd assembled works of Peter Carl Faberge, Russian imperial court jeweler, who designed \$150,000 jeweled Easter eggs to keep the Dowager Empress happy.

* * *

Cameras will begin to roll soon at the *Cleveland Museum of Natural History* as the *Gem Cutters Guild* starts the new story of gems and their relation to Man. The 16 mm. film will be a sequel to the Guild's first production *A Story of Jade*. The jade story was written, produced, and photographed by Robert Tesmer, the museum's Research Associate in lapidary arts and frequent contributor to the *Lapidary Journal*. This 750 foot film was photographed in black and white and color. It has been program material for several Ohio educational groups.

Mr. Tesmer's new picture *Story in Stone* will display the cutting of a star sapphire, the skill of the diamond bench and the type of mining that is done in man's search for the colored pebbles. It is hoped that inexpensive rentals will

be available in the near future for the many clubs and organizations for that "hard to find" lapidary program.

Club secretaries who are interested should address correspondence to the *Gem Cutters Guild*, Cleveland Museum of Natural History, 2717 Euclid Ave., Cleveland 15, Ohio.

* * *

The following item was clipped from the *Los Angeles Times* for April 8th.

The lapidary shop in the Farmers Market, a hangout for rockhounds and a place of exchange and barter in semi-precious gems, is run by Violet Crowther, who currently displays the world's largest privately-owned opal.

There are some larger ones in museums.

This vulgar hunk of jewel weighs a half pound and is owned by Lelande Quick, editor of the *Lapidary Journal*.

If you're interested in king-sized dazzlers you should see this monstrous thing.

It's not for sale—and Violet says Mr. Quick would as lief put his head up for sale.

My hunch is that you could buy the gentleman's head for say, \$10,000.

(This opal will be exhibited at the big Oakland show in June. People can look at my head too. More than one person is reported to have said "Quick should have his head examined." Here's your chance.—Ed.)

* * *

Postal notices were mailed under date of April 15th advising that publication of the *Earth Science Digest* has been suspended because its editor and publisher, Jerome M. Eisenberg had been drafted and was to be inducted into the Army.

* * *

We have received a communication from Mrs. Ruth E. Fulton of Gateway, Oregon, owner of the famed Priddy Agate Beds. She writes—

"We would like to see a correction made of a statement made by Melvin L. Kathan in his article *Agate Areas in Oregon* which appeared in the April *Lapidary Journal*. In a paragraph on Priddy Ranch he states—'The property has changed hands several times in recent years and is again for sale.' Nothing could be farther from the truth as we have no intention of selling. He has been at the ranch several times wanting

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SEMI-PRECIOUS STONES CUT - - ROUGH

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Notice—We wish to extend a very cordial invitation to anyone traveling in this area to stop in and visit us at our ranch shop and home two miles east of Terrebonne, Oregon. Turn east from Highway 97 at Terrebonne and follow our signs. Any information that we may have as to collecting in this area is yours for the asking. Drop in and we will attempt to make your visit to Central Oregon pleasant and worthwhile.

However . . . this year, for the first time . . . and in fairness to our family who enjoys field trips also . . . we wish to take the privilege of closing for business on Sundays and Mondays during June and the first half of July, and on Sundays only during the latter half of July and August. And of course we will be closed during the Labor Day Holidays in order to attend the big Northwest and National Federation Convention at Tacoma, Washington. On all other days, and at any hour, we will be here to greet you.

But . . . for those who cannot visit us, our mail order business will go on as usual with no order too small or too large for our consideration and appreciation.

- Excellent rough materials of several types priced at 75c per pound postpaid. Satisfaction guaranteed.
- Choice Plume Slabs of several types priced at from 25c to \$5.00 each. Gladly sent on full approval. No deposit necessary.
- American Diamond Saw Blades. The finest lapidary blade made. All sizes in stock for immediate delivery at prevailing prices.
- Thundereggs from the Pony Butte Bed in the Priday Ranch Area. Really good and an excellent buy at 10 pounds for \$3.50 postpaid.

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Professional diamond drills
1/16" bonded. Shank size
3/32 \$6.50

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Fountain pens with funnel
and swivel for desk sets,
3 (complete) for 5.80

Bead making mill — drill
press drive 48.50

Note: Bead making instructions—\$1.00

We have a few strands of graduated Wyoming Snowflake Jade beads for sale. Length of strand approximately 17". Price \$75.00 plus tax

A recent ad stated we had only fair Jade and that we were looking for some good stuff. We can now report that we have a little good jade; a lot of fair jade but no excellent jade. Still looking.

MCGILL'S
Stevens Point, Wisconsin

to dig agates but nothing was ever said about selling the ranch. We have been pestered enough by prospective buyers and real estate dealers and would like such false rumors stopped. A correction in your next issue would be appreciated."

We hear that Lottie Shipley, proprietor of *Shipley's Mineral House* at Bayfield (Gem Village), Colorado, is busy building a big new establishment in the Village.

Handy & Harman, world's largest dealer and fabricator of precious metals in semifinished form, made public recently for the first time a statement of earnings showing net for the first quarter of 1951 of \$543,057, or 46 cents a share, against \$271,065, or 23 cents a share in the same 1950 period.

For 1950 the net was \$1,079,475, or 89 cents a share vs. \$551,435, or 43 cents a share in 1949.

Minerals Unlimited, one of our steadiest advertisers, with a fine and large mineral and gem establishment in Berkeley, Calif., recently had the unique experience of turning customers away. They purchased a German collection of more than 4000 specimens gathered over the years from 1850. Announcing their arrival and sale they were greeted with long lines of people when they arrived to open their store the first day of the sale. The bulk of the fine specimens were in Tsumeb azurite and malachite and almost every customer bought at least one piece. The only item of lapidary interest was a number of pieces of galmei, a banded smithsonite and wurtzite in colors of tan to brown.

This establishment has recently issued a fine catalog for the lapidary, written for them by their **Gremlin**, whose ramblings regularly appear in their *Journal* ads.

FLASH! ! ! As we go on the press it is reported that *LIFE* was shown our editorial chiding them for being the last important national magazine not to recognize the rockhound. The result is that they then sent a couple of "observers" to the big Glendale show to see if they should feature the coming Oakland show. We hope they see the light.

Cut Gems of Many Varieties

Green garnets and other types. Precious topaz in white, blue, golden. Ceylon zircons in many colors. Tourmaline, spinel and garnet in several colors.

India fern agates and the noble Uruguay sard. These must be seen to be appreciated by the real lover of gems.

Rich golden citrine and fine amethyst. Onyx pendants for earrings.

Cameos (16x12 mm.) in jade, lapis lazuli, mother-of-pearl and other materials.

Rough tourmaline in many colors for cabochon and facet cutting.

Rare green spodumene for cutting.

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PRECIOUS BLUE TOPAZ—(good blue, exceptional)

PRECIOUS WHITE TOPAZ—(transparent)

SMOKY QUARTZ—(all sizes)

CLEAR QUARTZ—(all sizes)

TOURMALINES—(green and blue pencils)

CHRYSOBERYLS—(fine chartreuse and brown shades)

ANDALUSITE—(fine large crystals)

TOURMALINES—Cat's Eyes—(all shades)

CITRINE—(golden topaz quartz)

SPODUMENE — (delicate green, lemon yellow and kunzite)

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3 1/2 mm.	\$6.75	"

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2 mm. to 2 1/2 mm.	\$4.50	each
2 1/2 mm. to 3 mm.	\$5.00	"
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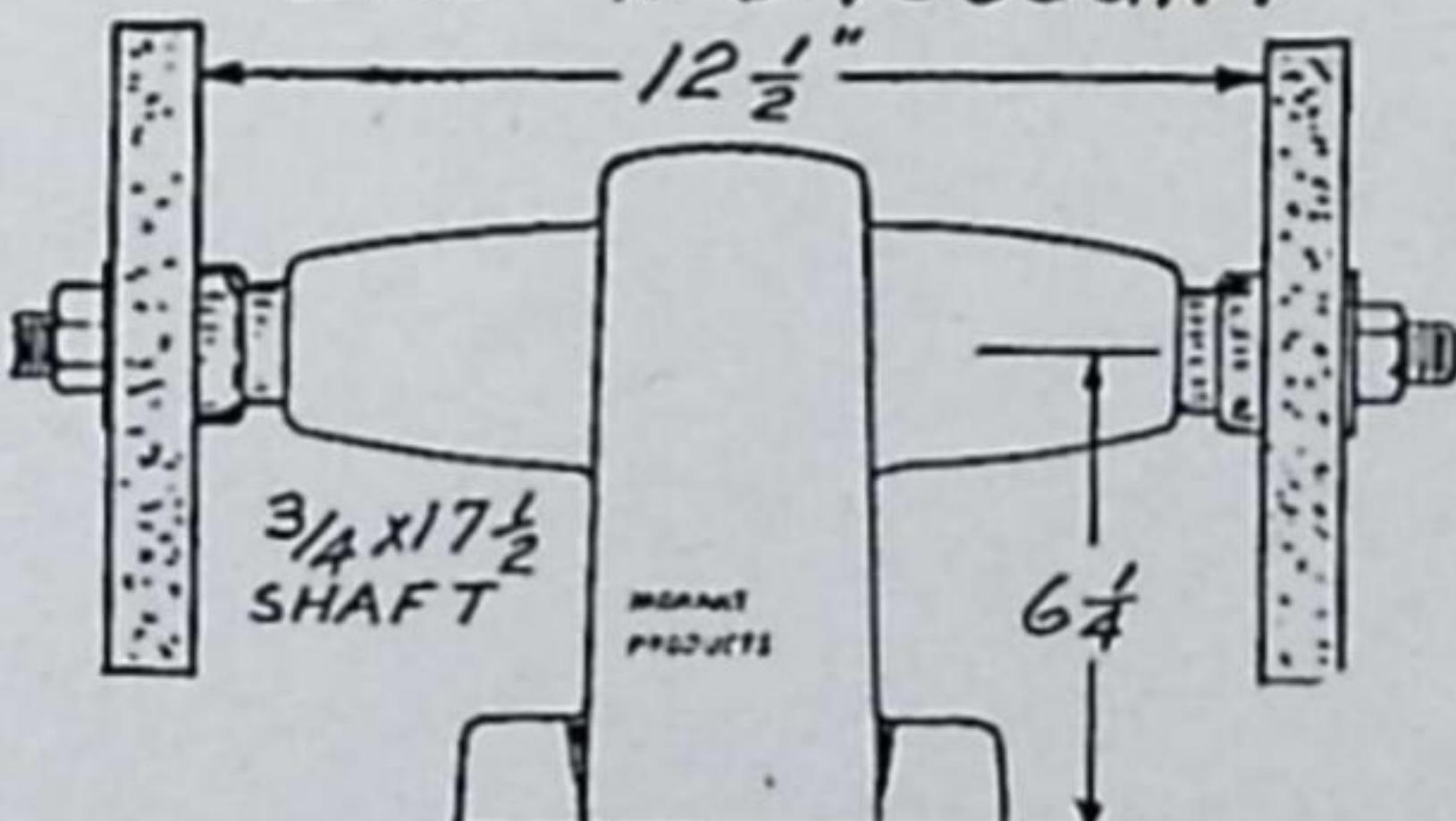
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♦ Complete Gem Bibliography

Several months ago we received a communication from Dr. J. Daniel Willems of Chicago, author of *Gem Cutting* and originator of the Willems Faceting Device, which interested us tremendously. We receive many interesting communications through the year from the doctor but this was particularly exciting. For Doctor Willems proposed an attempt at assembling a complete bibliography of all the gem and lapidary books that have been published in the history of the world. This is a monumental task and as a starter he had accumulated a list of about 230 books.

We have seen the doctor's gem library at his home in Evanston, Ill., and we believe he probably has the largest gem book library in the country. On the other hand we have also seen the library of Dr. Frederick H. Pough at the American Museum of Natural History in New York; that of Dr. Henry C. Dake, Editor of the *Mineralogist*, at Portland, Oregon; that of Harry R. Ringwald, our former associate in establishing the *Journal*; that of Robert Shipley, Director of the Gemological Institute in Los Angeles, and several others. Each of these men is rather certain that his collection is the largest and most complete for each of them is constantly seeking the gem books in the book marts of the world.

After much thought we proceeded to set the original Willems list, after supplementing it with titles from our own extensive library. After correction we drew galley proofs and sent them to each of the gentlemen mentioned above in addition to several others we knew had large libraries such as Dr. Ronald W. MacCorkell and Thomas Daniel in Los Angeles, Dr. William F. Foshag at the U. S. National Museum, R. W. Thompson, Jr., of Gulfport, Miss., and Robert Y. Pratt of Seattle. We expected to have the list supplemented by a few more titles and be prepared to print in this issue a listing of all the known gem books published prior to 1900 and have the later books appear in subsequent installments.

The immediate response was far beyond our expectations and the result was that it was impossible at press time

to make all the many changes, particularly with more expected. Therefore we are printing in this issue a listing of the books published up to 1883. Additions to this list will appear in the next issue and it will be continued from 1884. Please consult it carefully and if you know of any book not appearing in the initial listing inform us by July 1st. We would like to have the title, author, date of publication and a brief description of the book.

We wish to emphasize that this is not a list of mineral books except where they include a discussion of gem minerals. It is not a list of jewelry books or jewelcraft books except where they include a discussion of gem settings for jewelry. When the list is complete it will be published in book form for the use of scholars, libraries, booksellers, etc. If any reader possesses any book published prior to 1900 and desires to sell it please communicate with the *Journal*.

• • •

1— 1502, *Speculum Lapidum*, by Camillus Leonardus. Probably the earliest book still available in its original form. Translated into English in 1750 (see No. 20). Venice.

2— 1531, *Marbodei Galli Poetae Vetustissimi de Lapidibus Pretiosis Enchiridion, cum Scholiis Pictorii Villingensis*, by Marbodus. Friburgi (Freiburg).

3— 1547, *De Gemmis Aliquot Libri Duo*, Franciscus Rueus. Parisiis (Paris).

4— 1594 (?), *Gemmae et Sculpturae Antique*, Leonardus Augustinus and Jacobus Grenvius. Give fine engraved reproductions with descriptions of antique carved gems. In Latin by L. Strik.

5— 1601, *The History of the World*, by Caius Plinius Secundus (commonly called Pliny the Elder). A translation into English of the 37th volume of the History, by Philemon Holland. Devoted to precious stones and written in 77 A.D. A monumental work. (For a modern version see No. 280). Adam Islip, London.

6— 1603, *De Gemmis et Lapidibus Pretiosis Eorumq.* by Andrea Bacci. Francofurti (Frankfort).

7— 1609, *Gemmarum et Lapidum Historia*, by Anselme Boege de Boot. Hanoviae (Hanau).

8— 1617, *Trattato delle Gemme che Produce la Natura*, by Lodovico Dolce. Venetia (Venice).

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9— 1644, *Le Parfait Ioaillier ov Histoire des Piergeries*, by Anselme Boece de Boot, physician to Emperor Rudolph II, and Andre Toll, physician of Leyden. Describes, catalogs and classifies jewelry, gem stones, and ancient lapidary techniques and machines. Contains crude but revealing illustrations. Jean-Antoine, Leyden.

10— 1652, *A Lapidary or History of Precious Stones*, by Thomas Nicols, a lapidary. Deals with definitions, divisions, classification, generation, properties and colors of gem stones, with "cautions for the undeeceiving of those that deal with precious stones." Thomas Buck, Cambridge. (The oldest original work in English.)

11— 1672, *An Essay about the Origin and Virtues of Gems*, by Robert Boyle. London.

12— 1686, *Le Gemme Antiche Figurate*, by Leonardo Augustini. Many fine steel engravings and descriptions of antique carved gems. Gio Battista Brusotti, Rome.

13— 1719, *Neuer Vollkommener Natur—und Kunstmaessiger Unterricht von Edelsteinen*, by Arelius Gemmam. An old volume with surprising information on the cutting and polishing of gems, how to cut glass and make doublets, how to detect "false" stones and how they are made, and descriptions of the equipment used. In German. Nicolaus Foerstern, Hanover.

14— 1720, *Gemmarum Affabre Sculptarum Thesaurus*, by Martinus Ebermeyer and Jacobus Baier, M.D. A lexicon in Latin describing many ancient sculptured gems, with hundreds of illustrations of portraits, groups, and scenes, from the Egyptian, Greek, Roman, and other ancient lore. Prostant Exemplaria, Nuremberg.

15— 1721, *Capita Deorum et Illustrum Hominum*, by Martinus ab Ebermeyer. Descriptions in Latin of 450 gem portraits of the Gods and many illustrious persons. Prostant Exemplaria, Francofurti.

16— 1727, *Raccolta di Camei e Gemme Antiche*, by Pietro Santi Bartoli. Many reproductions of ancient cameos cut in various gem materials. Francesco Giannini, Rome.

17— 1741, *Gemmae Antiquae Caelatae* or A Collection of Gems, second edition, by George Ogle, Beautifully executed drawings of ancient gem sculptures. Claude Du Bosc and Wm. Darres, London.

18— 1746, *History of Stones*, by Theophrastus, an English version, and notes including the modern history of gems, translated by J. Hill. London.

19— 1750, *A Treatise on Diamonds and Pearls*, 4th edition, by David Jeffries. A reprinting issued in 1871, apparently without changes in content. Considers the importance and gives plain rules for ascertaining the value of diamonds and pearls, and discusses the true method of manufacturing diamonds (the first reference to synthesis). W. L. Molyneux, London.

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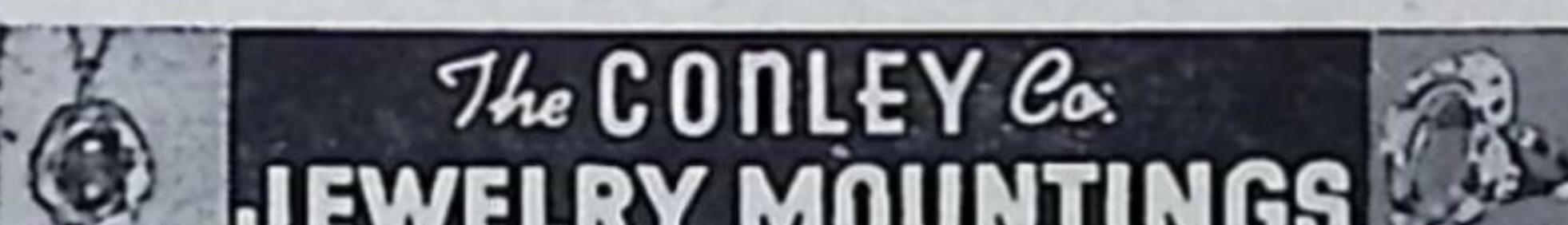
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20— 1752, *The Mirror of Stones*, by Camillus Leonardus, physician to Prince Caesar Borgia, Duke of Romandiola of France. The English translation of the original Latin written in 1502 (see No 1). Describes the nature, generation, properties, and varieties of 200 precious stones. J. Freeman, London.

21— 1768, *A Select Collection of Drawings from Curious Antique Gems*, by T. Worlidge. Fine etchings by a famous artist. Dryden Leach, London.

22— 1774, *Naturgeschichte Aller Edelsteine*, by Johann Baumers. Wien (Vienna).

23— 1778, *Beitrage zu einer Abhandlung von Edelsteinen*, by U. F. B. Bruckmann. Braunschweig.

24— 1779, *Abhandlung von den Edelsteinen*, by L. Dutens. Nuremberg.

25— 1779, *Bestimmung der Bestandteile einiger Edelsteine*, by Franz Carl Achard. Berlin.

26— 1785, *A Collection of Fifty Prints from Antique Gems*, by John Spilsbury. Excellent reproductions of fine sculptured gems. John Boydell, London.

27— 1787, *The Art of Making Colored Crystals to Imitate Precious Stones*, by P. E. Fontaine, translated by W. Drew. London.

28— 1804, *Gems, Selected from the Antique*, by Dagley. A study of engraved gems with many excellent illustrations. John Murray, London.

29— 1804, *Nachtrag über den Sarder, Onyx und Sardonyx*, by U. F. B. Bruckmann. Braunschweig.

30— 1813, *A Treatise on Diamonds and Precious Stones*, by John Mawe. London.

31— 1815, *Descriptive Catalog of Diamonds in the Cabinet of Sir Abraham Hume*, by the Count de Bournan. In French with English translation. John Murray, London.

32— 1816, *Anleitung zur Kenntniss der Edelsteine und Perlen als Handbuch für Juweliere und Steinschneider*, by J. C. Hendel. Halle.

33— 1819, *Versuch über die Kennzeichen der Edelsteine und deren Vorteilhaftesten Schnitt*, by J. A. F. Fladung. Pesth.

34— 1827, *Description of the Lapidary's Portable Apparatus for Cutting, Slitting, and Polishing Crystals, Jasper, Agate, Chalcedony, and Precious Stones*, by John Mawe. Written expressly for amateur lapidaries. London.

35— 1828, *Die Schmucksteine und deren Bearbeitung*, by J. R. Blum. Heidelberg.

36— 1838, *A Treatise on Gems*, by Lewis Feuchtwanger. The first edition of a useful guide for the jeweler, lapidary, artist, amateur, mineralogist, and chemist. The first book by an American author. New York.

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37— 1843, *Turning and Mechanical Manipulation*, by Charles Holtzapffel. Vol. I, Materials; Vol. II, Principles of Cutting Tools; Vol. III, Abrasives; Vol. IV, Principles and Practice of Hand Turning; Vol. V, Principles and Practice of Ornamental or Complex Turning. Each volume contains important information pertaining to lapidary procedures, but volume three is especially valuable. A most valuable addition to any library. London.

38— 1845, *Delle Pietre Antighe*, by A. Faustino Corsi. Rome.

39— 1846, *The Cabinet of Gems*, by S. H. Batchelor. A vocabulary of precious stones, diamonds, and colored gems, their history, and pearls and pearl fisheries. London.

40— 1847, *The Language of Gems*, by Miss H. J. Woodman. Poetic sentiments and sentimental poems. A. Tompkins and B. B. Mussey, Boston.

41— 1851, *Precious Stones Mentioned in the Scriptures*, by Robert Hindmarsh. Striking facts collected from the Bible, especially as regards altars, pillars, the tablets and the breast plate. James S. Hodson, London.

42— 1855, *The History and Poetry of Finger Rings*, by Charles Edwards. Complete account of rings in general, followed by descriptions of rings of historical characters. Redfield, New York.

43— 1856, *Ueber die Russischen Topaze*, by N. v. Korscharow. Accurate descriptions (in German) and scale drawings of many fine topaz crystals found in Russia. Royal Academy of Sciences, St. Petersburg.

44— 1859, *Photographic Facsimiles of the Antique Gems of Prince Poniatowski*, 2nd edition, by James Prendeville. Actual photographs mounted on fine heavy paper, with descriptions. Longman, Brown, Green, Longman and Roberts, London.

45— 1867, *A Popular Treatise on Gems*, 3rd edition, by Lewis Feuchtwanger. A guide for the teacher of natural sciences, the lapidary, the jeweler, and the amateur. New York.

46— 1867, *Diamonds and Precious Stones*, by Harry Emmanuel. An early work on their history, value, and distinguishing characteristics, with many illustrations. John Camden Hotten, London.

47— 1870, *The Natural History of Gems and Semi-Precious Stones*, 2nd edition, by C. W. King. A companion volume to No. 48, but treats of the broader field of stones for ornamental and decorative purposes, which it does thoroughly and completely. Bell & Daldy, London.

48— 1870, *The Natural History of Precious Stones and Precious Metals*, 2nd edition, by C. W. King. Archeology, history, weights, and values of the jewels of the ancients, and down to date. Bell & Daldy, London.

49— 1871, *Gems*, by Augusto Castellani. A detailed consideration of all the different gems known. Bell & Daldy, London.

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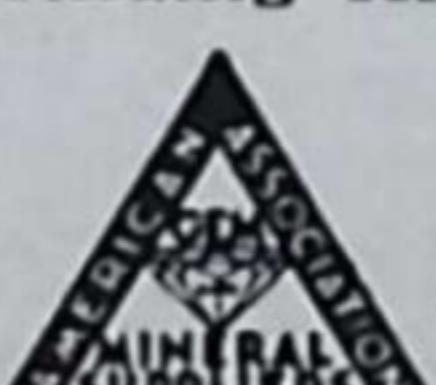
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50— 1873, *The Tourmaline*, by A. C. Hamlin.
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beautiful gem, by an American doctor who
was an expert on tourmaline. Four color
plates. James R. Osgood & Co., Boston.

51— 1874, *A Manual of Precious Stones and
Antique Gems*, by Hodder M. Westropp. A
small but highly informative book on preci-
ous stones as they are used for glyptic pur-
poses and jewelry. Sampson Law, Marsten
Law & Searle, Boston.

52— 1874, *Diamonds and Precious Stones*, by
Louis Dieulafait. A popular account of their
history, distinctive properties, methods of
cutting and engraving, and the artificial pro-
duction of real and counterfeit gems. Scribner,
Armstrong & Co., New York.

53— 1875, *The Science of Gems, Jewels, Coins,
and Medals*, 2nd edition, by A. Billing. A
history and description of the art of carving
gems, cameos, and ornamental objects, with
an engaging biography of a famous carver
of the 18th century. Daldy, Isbister & Co.,
London.

54— 1876, *Die Feldspate*, by Joseph Szabo. Or-
iginal investigations on the analysis and de-
terminations of the feldspars, in German.
Franklin Verein, Budapest.

55— 1877, *Finger-Ring Lore*, by Wm. Jones.
The superstitions, secular and ecclesiastical
uses, memorial and mortuary rings, token
rings, betrothal and wedding rings are de-
scribed. Chatto & Windus, London.

56— 1877, *Engraved Gems*, by Maxwell Som-
merville. A discussion of the beauties of the
glyptic art, followed by a catalog of the
famed Sommerville collection. Many illus-
trations. Porter & Coates, Philadelphia.

57— 1879, *Mani-Mali, A Treatise on Gems*, by
Sourindro Mohun Tagore. In two volumes.
A work printed in an Indian script with par-
allel translations into English. A curious
book expressing curious ideas. Calcutta.

58— 1881, *Diamant et Pierres Precieuses*, by
Jannaettaz, Fontenay, Coutance & Vander-
heyn. The description, crystallography, and
valuation of precious stones. Paris.

59— 1881, *Die Perle*, by Martin Gerlach. A
large volume with 916 illustrations, without
text, of fine and valuable old jewelry pieces
carrying pearls as well as other gems. Ger-
lach & Schenk, Wien.

60— 1882, *The Great Diamonds of the World*,
by Edwin W. Streeter. The authentic history
and romance of 70 great diamonds. Geo.
Bell & Sons, London.

61— 1882, *Precious Stones and Gems*, 3rd edi-
tion, by Edwin W. Streeter. The history and
distinguishing characteristics of gem stones
with special descriptions of many celebrated
diamonds. Geo. Bell & Sons, London.

62— 1883, *Diamonds and Other Precious Stones*,
by Rev. Alfred Taylor. A small pamphlet
discussing the diamond in general and par-
ticularly as it relates to the author's concept
of religion. Phillips & Hunt, New York.

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♦ News of the Societies



LOS ANGELES LAPIDARY SOC. heard Mr. Armand De Angelis at its April meeting in a talk on gem cutting. A professional for 25 years, he gave many helpful tips. He has cut earrings for Hedy La Marr and a 375 carat topaz for Joan Crawford. Mr. De Angelis claims that the jam peg is best for repairing faceted stones and that there is less loss of rough when using the peg method. Other remarks will be found under our SHOP HELPS section on Page 128. The society carried off honors with its fine demonstration and display at the California Hobby Show. Kenneth F. MacKenzie addressed the May meeting on the subject of pearls.

* * *



CHICAGO ROCKS & MINERALS SOC. recently heard Professor Richard Cole of Northwestern University give a lecture on "Watch Cases of the Early 1800's." The talk was accompanied with colored slides and a display of elaborately enameled and jewel encrusted cases from the collection of Leopold Metzenberg.

* * *

TUCSON GEM & MINERAL SOC. (Ariz.) recently heard Gladys Babson Hannaford's lecture on "Diamonds from the Ground Up." Another interesting recent program was that given by Mrs. A. H. Murchison on "The Whys and Wherefores of Mineral Names."

* * *



SAN FERNANDO VALLEY MINERAL & GEM SOC. (Los Angeles) is the first society to establish a budget. It indicates that the most income the society can hope to receive from dues and activities during the next year is \$564.60 and they have planned to spend about half of this (\$267) on a bulletin and refreshment. Only when societies get down to brass tacks and analyze their income and expenditures, as any business man HAS to do, do they realize just how much is spent for these items. On the other hand they have budgeted \$10.00 for their library—and \$1.00 for their President (?). But—they print a GOOD bulletin.

* * *

NEWARK LAPIDARY SOC. (N. J.) recently heard Dr. T. W. Landers of Montclair High School give an interesting talk on some silversmithing techniques related to jewelry making. The society held its first annual exhibition in the East Orange Public Library from April 23rd through May 12th.

* * *

DONA ANA COUNTY ROCKHOUND CLUB (Las Cruces, N. M.) recently conducted a "silent" auction described in the *Lapidary Journal*. Has YOUR society tried one of those interesting fund raising and fun promoting programs? See page 482 of the Feb., 1951, *Journal*.

LAPIDARY & GEM COLLECTORS CLUB OF WASHINGTON, D. C., recently heard James Benn of the National Museum in a talk on the gems in the museum's extensive collection. They report that 10 member societies have joined the new Eastern Federation so far.

* * *

KERN COUNTY MINERAL SOC., INC. (Bakersfield, Calif.) now has as its permanent address—Box 4, Station A, Bakersfield.

* * *

GEM CUTTERS GUILD (Cleveland) recently heard William E. Scheele, Director of the Cleveland Museum, in a talk on the museum's splendid gem collection, now housed in a new gem room.

* * *

MONTEREY BAY MINERAL SOC. (Salinas, Calif.) recently held a field trip to the backyard of member V. L. Fraser and discovered a bonanza as Mr. Fraser was unable to move all his rocks to his new home.

* * *

PASADENA LAPIDARY SOC. (Calif.) has a new meeting time and place. It now meets the 3rd Tues. (instead of Thurs.) at Odd Fellows Hall, 175 N. Los Robles Ave., Dr. Frederic W. Burcky talked on faceting at the April meeting.

* * *

COLUMBIA GORGE ROCKHOUNDS (Bonneville, Ore.) recently laid a new concrete floor in the cellar of the home of member Francis V. Klemann so that the club could have a permanent meeting place. They report that a good mixture for such a project is a quart of coffee and two slabs of pie to each slab of concrete to make it come out just right.

* * *

COLORADO MINERAL SOC. (Denver) has organized a lapidary group with President Ress Philips acting as chairman. A member must have some lapidary equipment to qualify.

* * *

HUMBOLDT GEM & MINERAL SOC. (Eureka, Calif.) is planning a society exhibit at their county fair.

* * *

TOURMALINE MINERAL & GEM SOC. OF SAN DIEGO CO. (Calif.) has established a permanent address at Box 143, La Mesa.

* * *

WASHOE GEM & MINERAL SOC. (Reno, Nev.) recently elected Henry Obermanns as President.

* * *

NAPA VALLEY ROCK & GEM CLUB (Calif.) had a very successful show on March 31st and April 1st at the Women's Club House in Napa.

* * *

SANTA FE GEM & MINERAL CLUB (N. M.) recently held a field trip to the Tonque Wash for big geodes. Walter H. Wright is the new President.

SEARLES LAKE GEM & MINERAL SOC. (Trona, Calif.) recently opened its well-equipped Lapidary Hut. This has marked the fulfillment of one of their foremost ambitions. The society secured the use of two cabins from the American Potash & Chemical Corporation. Oscar Walstrom headed a series of work parties during which the two cabins were joined, benches installed and the building readied for equipment. Walstrom had as committee members Eddie Redenbach and Newell Merritt. Equipment installed includes a 16" slabbing saw, a trimming or shaping saw, four 10" grinding wheels, two 8" drum sanders, two 8" disc sanders, one 10" cloth buffer and one 10" felt buffer. The hut, which is used only by members, is open three nights a week from 7-9 p.m. under supervision of a committee member, with George Grau as alternate. Techniques of cabochon and flat specimen cutting as well as facet cutting is being taught. Special instructions in jewelry mounting, and a class in mineral identification, under the tutelage of Modesto Leonardi is planned for the future. Opening of the hut has attracted a number of new members.

* * *

HOLLYWOOD LAPIDARY SOC. (Calif.) is now running an interesting series in their fine bulletin, the *Sphere*, called "How It Happened." Each installment tells how a member came to take up the gem cutting hobby. Somehow rockhounds are always interested in other people's accounts of how they went crazy too for the general public seems to think we're all a little daft. But it's such a nice way to lose your senses.

* * *

GLENDALE LAPIDARY & GEM SOC. (Calif.) recently heard Elmer Soper in a talk on polishing flats. At another meeting they heard Armand De Angelis in the same talk described in the first item in this section.

* * *

ST. LOUIS MINERAL & GEM SOC. (Mo.), a new society, is now holding regular meetings on the 1st Fri. at Chouteau House of St. Louis University, Room 106, 3673 W. Pine St. Rockhounds in that area are welcome and they can get more information from the Secretary, Mrs. Theodore Boente, 4980 Neosho St., Flanders 8905.

* * *

MARQUETTE GEOLOGISTS ASSOCIATION (Chicago) recently heard Russell P. MacFall (author of the new and popular book *Gem Hunters Guide*) in a lecture on collecting in the field. At their May meeting they invited the other Chicago clubs to an auction at which time they heard a short address by Peter Zodac, founder and Editor of *Rocks and Minerals*, America's pioneer rockhound magazine, now going strong at the end of its 25th year of publication.

* * *

CLEVELAND LAPIDARY SOC. recently heard L. A. La Fevre in a repeat performance of his excellent lecture on *Diamonds and Diamond Cutting*.



SAN DIEGO MINERAL & GEM SOC. recently held a jade night at which scraps from Donal Hord's THUNDER were sold. It is reported that the San Diego Fine Arts Museum is now accepting donations for a fund to purchase THUNDER for the Museum. We hope they are successful for THUNDER should never leave home.

* * *

OREGON AGATE AND MINERAL SOC. (Portland) is planning a rock show. It will probably be held on the last three days in July in the Hostess Room of the *Portland Oregonian*.

* * *



SAN DIEGO LAPIDARY SOC. recently heard Charles L. Parsons in a highly informative lecture on the subject of diamonds entitled "From Mine to Market." The society continues to publish a "meaty" and useful bulletin with lots of good miscellaneous information in it.

* * *

OKLAHOMA MINERAL & GEM SOC. (Oklahoma City) recently had an editorial in the *Sooner Rockologist*, their excellent club bulletin, which we are pleased to quote: "For the purpose of promoting some constructive thinking and starting a discussion we recently wrote a short editorial on the subjects 'To Build or Not to Build', 'To Publish a Club Bulletin or Not to Break Out in Print'. Leland Quick, Editor of *Lapidary Journal*, kindly gave the subject matter a friendly nudge and offered a few timely tips for the improvement of club bulletins in general. Since the appearance of Mr. Quick's frank but basically sound comments we have noted with chagrin that some of the editors of other club bulletins have taken offense at his remarks and have even construed his observations as applying to them personally and to their individual bulletins. We are tempted to say 'If the shoe fits, put it on', but we know that Mr. Quick was not indulging in any personalities. We say without fear of contradiction that the Rockhounds of America have no truer friend than Leland Quick.

"Mr. Quick did not condemn all club bulletins per se. He did not say, 'Why a club bulletin?' but, rather, 'If a club bulletin, make it a good one'. Slovenly work in any field of endeavor is indefensible. There is no more excuse or justification for turning out a bulletin replete with mis-spelled words, split infinitives, grammatical errors, poor arrangement, trite copy and faulty reproduction than there is for turning out a non-symmetrical and imperfectly polished cabochon. It is not too much to aspire to polish out that last little 'scratch', or, to mix metaphors, to repair the 'little rift within the lute'.

"The best truck driver that we have ever known makes a point of taking a Driver's Test once every three months. He says that it helps to keep him on his toes. This editorial, for instance, could certainly be improved by rewriting it a few times. But, lest

we get too serious, we would like to conclude this with one of our favorite jokes:

"An English political candidate was making a campaign speech and was saying; 'I was born an Englishman, I have lived an Englishman, I hope I shall die an Englishman' when, from the back of the hall, in an unmistakable Scottish accent, came the heckling question: 'Mon, hae ye no ambeetion?'."

* * *



SAN ANTONIO ROCK AND LAPIDARY SOC. (Texas) reports as we go to press that the big show of the *Texas State Mineral Society* (statewide), held in their city, was the biggest and best show ever held in Texas. The Society had 20 cases of lapidary work displayed with that of the other societies.

* * *

New Societies

MINERALOGICAL SOCIETY OF PENNSYLVANIA, a statewide organization, was founded at Lancaster, Pa., in April. 74 persons from all parts of Pennsylvania were present for the organizational meeting. Leonard J. Duersmith, Curator of Mineralogy at Franklin and Marshall College, was made the first President. Corresponding Secretary is Mrs. Helen Bauhof, 352 Church Lane, Philadelphia.

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FRESNO MINERAL & GEM SOC. (Calif.) was organized on Jan. 18th and a charter was adopted on Feb. 22. 68 members joined before the charter closed. Meetings are held on the 4th Thurs., at the auditorium room of the John Burroughs Elementary School, Sierra Avenue, between Illinois and Tulare Sts. The first President is Dr. Andrew Still Wallace. Most of the board and the officers are also members of the *Sequoia Mineral Society*.

* * *

THE PEG BOARDERS is a new group recently organized in Sacramento for the serious study of the lapidary art. Each member is supposed to work toward a "degree" of "Master" by submitting original papers and indulging in original research on various phases of the lapidary arts. Information regarding the group can be secured from George MacClanahan, 3461 Second Ave., Sacramento, Calif. More about this group later—a LOT more.

* * *

COLUMBIA GORGE ROCKHOUNDS is the name of a new organization in Warrendale, Oregon.

* * *

SHOSHONE ROCK CLUB is the name of a new organization at Powell, Wyo.

* * *

MAGIC VALLEY GEM & MINERAL SOC. is the name of a new club at Harrington, Texas.

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NATIVE COPPER—From high atop the Trinity Alps of California comes this rich new find of Native Copper in quartz. We call it TRINITITE. Excellent for cutting or for the mineral collector. \$1.60 lb., postpaid. Choice selected specimens \$2.00 each and up, according to size. Satisfaction guaranteed or your money refunded. W. H. WALKER, c/o Rockhounds of America, Fall River Mills, California.

INDIAN EXPORTER offers *rough and uncut* and cut and polished semi-precious stones such as GREEN AVENTURINE, BLOODSTONE, GARNET, JASPER, etc. Interested parties contact M. VISHWESWAR, Box 714, 203 Hornby Road, Bhatia Building, Second Floor, Bombay 1, India.

JADEITE: Imported jadeite jade. Excellent quality, Slabs, blanks, preforms, finished cabs. Singles or sets. Colors vary from dazzling white, white and green, light green and dark green. Priced very reasonably for quality material. Here is your chance to own and work jadeite that takes a gorgeous lustrous polish — stones you will be proud to show. Write for details and price list. TREASURE JADE, 8185 California Ave., South Gate, California.

NEVADA GEMSTONE: Fancy moss agate, beautifully patterned and colored—\$1.00 pound. Larger fancy moss agates weighing 5 to 20 pounds each—\$1.50 pound. Sagenitic type jasp-agate, full of lines and translucent moss; large chunks if desired—75c pound. 10 pounds polishing and slabbing material, including fancy moss and sagenitic jasp-agate—\$5.00. Generous slab assortment of the foregoing materials—\$2.00. Postage paid on \$5.00 orders. G. E. JOHNSTON, Box 53, Caliente, Nev.

ALASKA JADE—14x16 mm. blank—\$1.00. Four square inches—\$3.00. Twenty square inches (at least four different Alaska jades) —\$12.00. Half pound—\$4.95. Mammoth ivory—\$4.00 lb. Alaska gold nuggets—\$1.95 & \$2.95 each. Quartz xls, massive biotite, native copper nuggets, Eskimo carved ivory figurines. ALASKA HANDCRAFTERS, Box 1891, Fairbanks, Alaska.

EQUIPMENT AND SUPPLIES

ROCK-HARD FELT POLISHING WHEELS
5x1—\$1.50; 10x1½—\$5.95; 12x3—\$2.00
lb. Medium Hard Wheels—6x½—\$1.25;
6x¾—\$1.50; 10x2—\$5.95. YALE ADLER,
2205 Euclid, Detroit 6, Mich.

FOR SALE—Professional precision built faceting machine. Never used. 2 indexing heads with plates, 32 and 49 index (facet septagon cut—"Star of Bethlehem"). Large lap wheel, diamond charged, mounted on concrete pedestal. Can be mounted on steel or wood. Less motor. Patent pending. Photo to those interested. EVA PHILLIPS, Logan, Ala.

ATTENTION DEALERS: I can supply about 25 more dealers with a line of imported items that are top sellers and the best items on today's market. Rock Quartz Beads at about 10% of what they would cost if cut and drilled in this country. Also faceted Rock Quartz Crystal five-pointed stars in 6 different sizes, drilled for bails, either mounted or unmounted for ear-screws and pendants. B/c quartz stones of many sizes from \$4.00 dozen. Synthetic stones of finest quality in many materials at 80c per carat. Many other items at good prices. Write for price list promptly as I can only supply about 25 more dealers. J. L. DAVIS, Box 161, A.P. Station, Hot Springs, Arkansas.

MISCELLANEOUS

PECOS RIVER "DIAMONDS"—No collection complete without these fine small doubly-terminated opaque quartz crystals from New Mexico's fabulous "River of Sin." White to deep red; some twins, burrs and rosettes. Ten assorted crystals, plus kindred quartz lump for that cabochon that's different — \$1.00. ROBERT NYMEYER, 811 Greene, Carlsbad, N. M.

BEAUTIFULLY FACETED STONES—All cuts and sizes. Amethysts 50c (light) to \$2.00 (deep purple) per carat. Light Beryl 75c per carat. Imported Swiss choice synthetic Alexandrite-like corundum and the new water-white Titania. Swiss boules in ruby, sapphire, alexandrite and kunzite colors. Mexican harlequin fire opals of rare quality and a limited number of good pieces for cutting and specimens. *We have the best at lowest prices.* HY HAYDIS, 2720 Derby St., Berkeley 5, Calif. THornwall 3-7241.

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SNOWFLAKE OBSIDIAN		Per Pound
Star agates, fluorescent		\$.75
Grape agate		.50
Petrified Wood, Strong in Carnotite		1.00
Petrified Wood, Fine cutting material	1.00 to 4.00	
Blue banded, carnelian, pigeon blood agates, finest cutting material	1.00	
Finest dinosaur bone	1.00 to 4.00	
Lime onyx, all colors, for book ends	.50	
Selenite crystals, all sizes	.40	
Septarian nodules, all sizes	.25	
Utah picture rock	7c per inch	
All slabbed stuff	30c to 60c per inch	
Cash with order and add approximate postage please.		

HUBERT'S ROCK SHOP

LOCAL ROCKS AND MINERALS
SPRINGDALE, UTAH

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FOR SALE—The famous Walter H. Sutter fluorescent rock collection (Tacoma, Wash.). Had wide publicity in the Northwest. Includes sections of his noted fire place and assortment of ultra violet lamps. Shown by appointment only. MABEL SUTTER, 31622 South Coast Blvd., Box 435, South Laguna, California.

LAPIDARY WANTED: We are looking for a man with several years experience in lapidary work who is interested in buying into our corporation and building up the lapidary part of our well established business. For someone who is interested in working it and who is not easily discouraged, it is a great opportunity. We have a complete set-up of lapidary machinery, including heavy duty machines formerly used on war contracts. We also do jewelry manufacturing and have a fine retail store with a complete centrifugal ring casting division. Our location is about 90 miles southeast of Chicago in a town of 35,000 with fine living conditions. Further infor-

mation will be furnished upon request to Mack M. Jordan, CONTINENTAL LAPIDARIES, Inc., 811 S. Main St., Elkhart, Indiana.

SPHERES CUT and polished. Pen bases \$1.25 up. Swivel base fountain pens ready to mount \$1.25. Custom slabbing on 24" saw. We sell *Mathieu Sphere Machines* and saws. Visit our museum on Highway 66, 10 miles south of Victorville. VICTOR VALLEY GEM SHOP, Box 158, Phelan, California.

HERKIMER "DIAMONDS" in matrix 50c to \$5.00 postpaid. State size of matrix, crystal and price class. Approvals sent. Attractive booklet *Let's Hunt for Herkimer Diamonds* tells how they are found. While they last—beautiful free "diamond" embedded in pocket in book—\$1.00 postpaid. CLAUDE C. SMITH, Box 291, Geneva, N. Y.

IF YOU HAVE large stones you wish cut and polished, our 36" diamond saw and 30" lap will handle most of the big ones. Prices sent on request. Need Montana agate? Utah barite? Nevada jasper? Oolitic limestone? Vein variscite? We have plenty. THE RANKINS, Hathaway Pines, California.

FOR SALE—*The Oregonite Mine*. Located on the Illinois River in Southern Oregon and the only known deposit of this gemstone. Write BARNES JEWELRY STORE, 115 S.W. "H" St., Grants Pass, Oregon.

JADE—Articles of all types wanted. Interested in finished pieces domestic or imported stone. If no pieces on hand please advise ability to cut and polish objects of your stone and design or special orders. Amateur or professional lapidary replies solicited. A. GORSON, 333 W. 56th St., New York, N. Y.

MADE TO ORDER rubber stamps; cushioned and knob handle. One line 75c, two lines \$1.10, three \$1.25, four \$1.40. Stamp pads 45c. Date stamps 65c. Typewriter ribbons \$1.00. State color and make. Erasing shields 25c. LLOYD HARAZIM, 2364 N. 58th St., Seattle 3, Washington.

Rock or Jewel?

Our IDENTIFICATION service is positive
WASHINGTON GEM-CUTTING SCHOOL
1018 Vermont N.W., Washington, D.C.
Please inclose \$1 with each specimen for instrument identification and return postage.

SOUTH TEXAS JASPER AND AGATE

Colorful and Variegated—Sure to please. Full of mosses, growths, plumes, etc., in many colors.

ROUGH 10 lbs. prepaid only \$8.00 or 100 lb. for \$50.00

Dealer's Write for Special Prices on Large Lots

SLABS at .10—.20—.30 and up per inch. 100 sq. in. or more will be mailed tax paid and prepaid.

Satisfaction Guaranteed

Wyoming Jade (black or green)—\$1.00 per square inch.

J. W. SMITH
4222 Estate Drive, Corpus Christi, Texas

We'll Get Any Book You Want On Gems, Minerals or Silver Craft

We have a complete book department with most currently published works on gem cutting, silversmithing, gemology and mineralogy immediately available. All books postpaid. Add sales tax in California.

NORTHWEST GEM TRAILS by Dr. Henry C. Dake—\$2.00

The companion book (paper backed) to *California Gem Trails* (\$1.50) which has had such wide distribution. With these two books the tourist interested in gem collecting can go to all the known gem locations of consequence in the Pacific Coast States. Plenty of maps in each book. Don't start your western trip without both of these books in the map compartment of your car. Makes swell reading for those nights in the auto courts and trailers too when the home-town papers are not around. *Special Offer—BOTH books for \$3.25.*

CALIFORNIA GEM TRAILS by Darold J. Henry—\$1.50

A fascinating book of all the principal California gem locations. Well illustrated with maps and photos. No rock hunter should be without this inexpensive and informative book. If you plan to visit California get this helpful guide first. (See special offer in preceding item.)

GEM CUTTING by J. Daniel Willems, M.D.—\$3.95

The first book the beginner should buy. Well illustrated and easily understood. A very readable book even if you never intend to cut gems but wish to be informed. Tells how to construct equipment and organize a shop. Equally divided between all phases of cabochon cutting and faceting. Gives list of minimum requirements for a lapidary shop.

HANDBOOK FOR THE AMATEUR LAPIDARY by J. Harry Howard—\$3.00

The first book on the subject and still as good as the best. Step by step instructions on all phases of gem cutting. 225 well illustrated pages. Fine cloth binding. Good index. New techniques and tools discussed.

THE ART OF GEM CUTTING by Dake and Pearl—\$2.00

Contains much useful information, not contained in the previously mentioned books, taken from the author's magazine *THE MINERALOGIST*, which has published lapidary articles for many years. Also contains all the fundamental information needed for the beginner.

POPULAR GEMOLOGY by Richard M. Pearl—\$4.00

The newest book on gemology written by the former president of the American Federation of Mineralogical Societies. Not a book about gem cutting but indispensable to the gem cutter. It "explains" gems in a readable and easily understood manner. Tells the best form in which each gem material should be cut.

THE ART OF THE LAPIDARY by Francis J. Sperisen—\$6.50

The most complete book on the lapidary art that has ever been published. Written by an experienced lapidary who can cover every phase of the lapidary art, even to diamond cutting, because of a long experience in every branch of gem cutting. Chapters on sawing, specimen grinding and polishing, cabochon and facet grinding and polishing, drilling, engraving, carving, sculpturing, mosaic, inlay, parquetry, etc. If there is any book that will enlarge the horizons of the gem cutting hobby for the "cabochon artist" this is it. Full information on all gems, tools and equipment, physical characteristics and classification of gems. The COMPLETE book on the subject. OVER 400 DRAWINGS & ILLUSTRATIONS. 328 pages 9 1/4" by 6"—Beautiful binding.



The Lapidary Journal

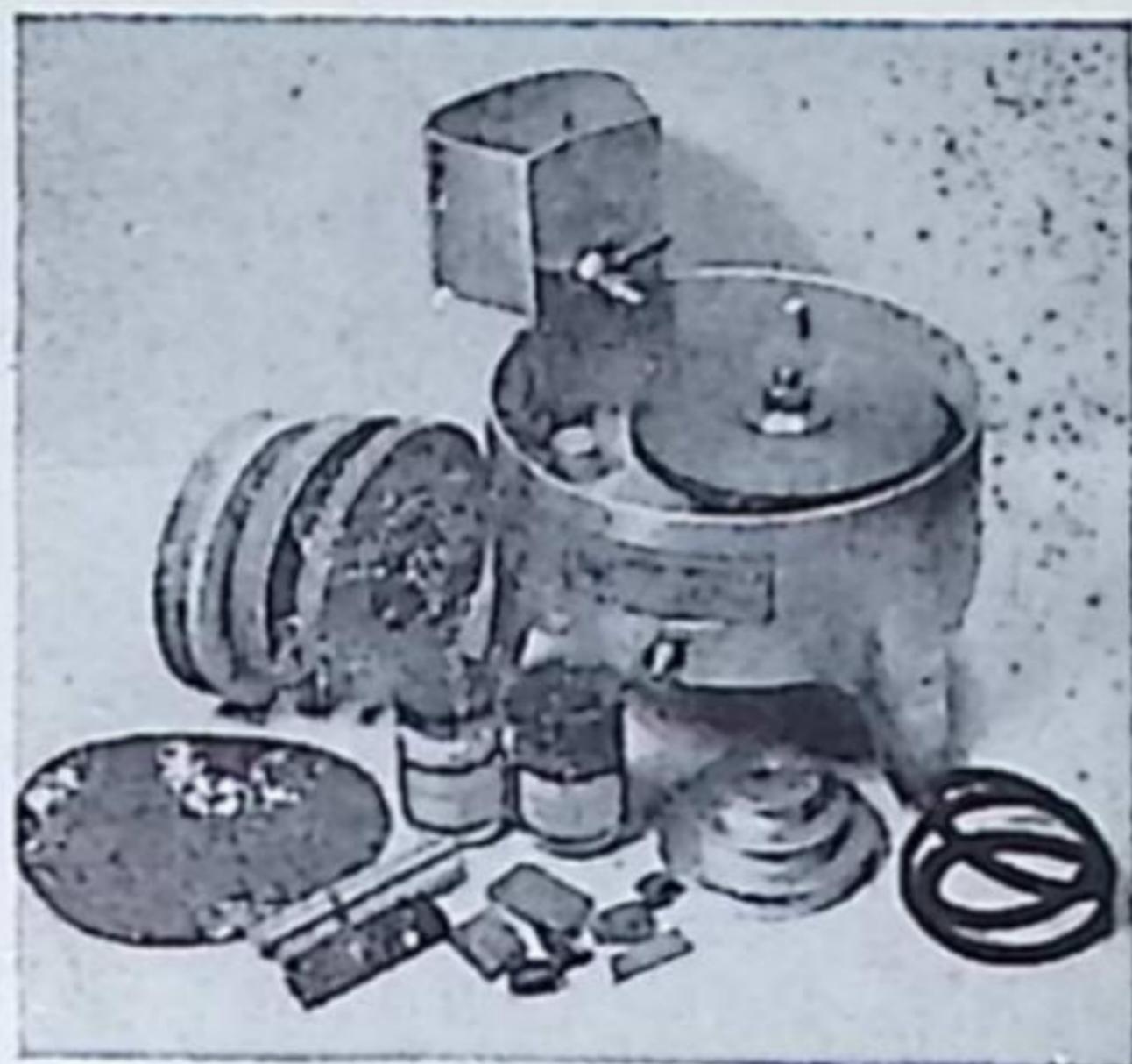
PALM DESERT, CALIFORNIA

LAPIDARY
1265 W. 76TH ST.



HOBBYCRAFTS, INC.
CLEVELAND 2, OHIO

PRECISION EQUIPMENT INSURES FINE GEMS



WHY BUY LARGE BULKY EQUIPMENT?

The "GEMLAP" Model 1-A Cabochon Unit offers you a small, compact Grinding, Sanding, Polishing and Lapping machine, complete with all accessories except Motor, as illustrated.

\$37.50 F.O.B.

Features such as ALUMINUM body and water dispenser, ground MONEL shaft, machined MONEL flange, OIL-LESS BRONZE bearings, BRASS nut, washer and drain cocks, insure its being entirely RUST PROOF.

'GEMLAP' MODEL

2-A TRIM SAW

Built of the same high quality materials as the Model 1-A "GEMLAP" Cabochon Unit. OIL-LESS BRONZE bearings and MONEL shaft insure long life, from the silt condition incurred by the cutting of materials.

A cast trough around the top of the body allows coolant to return to the reservoir through apertures under raised REMOVABLE table. Size 14 $\frac{1}{4}$ " long, 8 $\frac{1}{4}$ " wide, 8" high. Less Blade.....

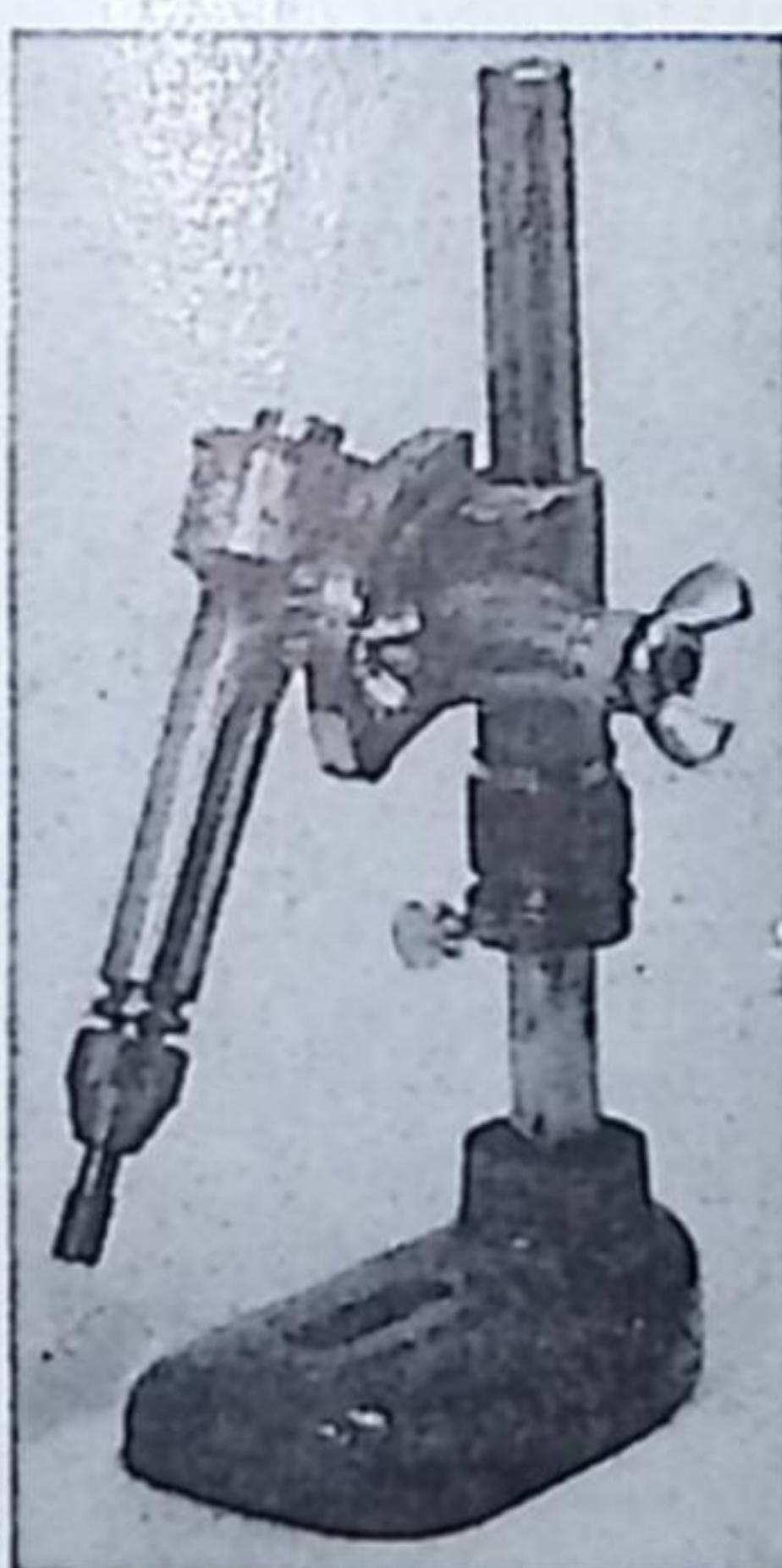
\$32.50 F.O.B.



"GEMLAP" MODEL FH-3 FACET HEAD

For use on GEMLAP Model 1-A or any other type horizontal machine. Constructed entirely of Bronze and Brass with exception of stand-rod, which is of MONEL, $\frac{5}{8}$ " diameter. Adjustable knurled raising and lowering micromatic adjustment. Cast iron machined base. The head has two inclosed bevel gears, which mesh together on all of the 32-calibrations, plus a calibrated vernier (cheater) for split facets and cutting odd shapes. An angle stop is provided on the refractive index quadrant, so that the head may be tilted for inspection without removal from the stand-rod. Brass dops are held by a split collet chuck. Complete with one brass dop and wood case.....

\$32.50

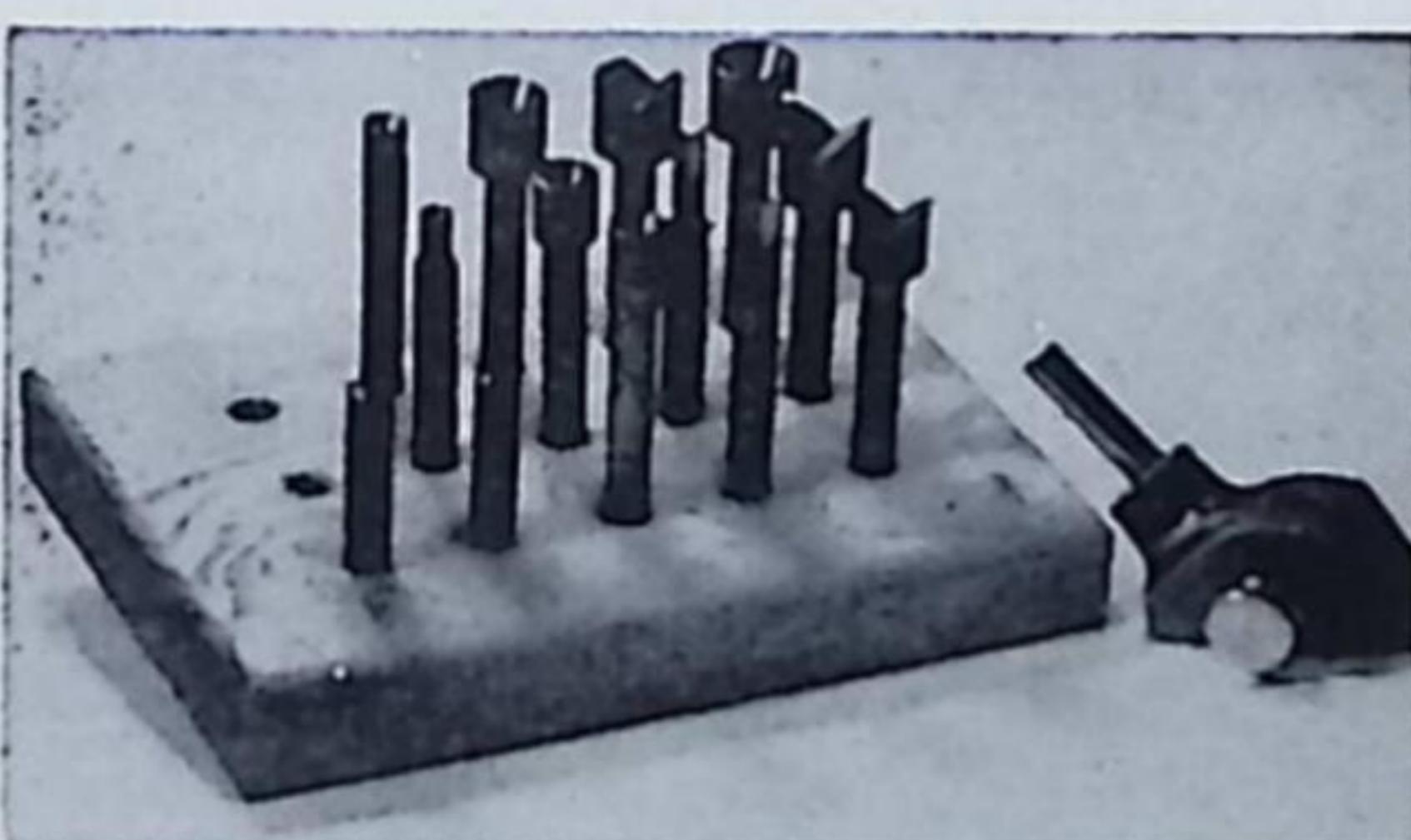
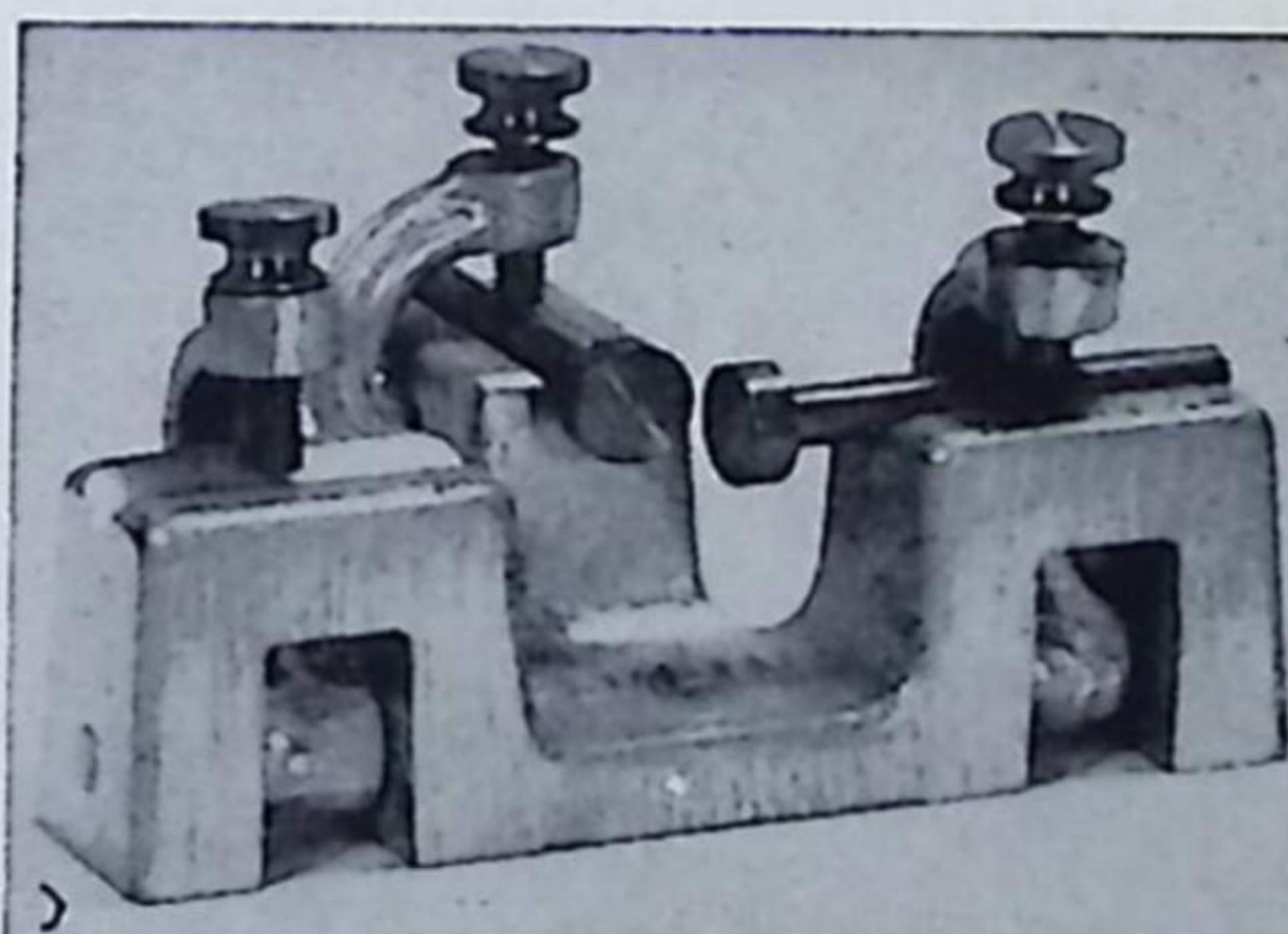


'GEMLAP' MODEL

SR-1 SPEED REDUCER

For use on our Model 1-A machine. Allowing necessary reduction in speeds for faceting.....

\$15.50



"GEMLAP" BRASS DOP STICKS

A complete set of 13 machined brass dops 2 $\frac{3}{8}$ " in length, $\frac{1}{4}$ " diameter shank, head sizes from 1/16" to 1/2" and in a variety of shapes. Mounted on a wood base....

\$7.50

45° Facet Table Grinder.....

\$3.50

"GEMLAP" TRIPLE "V" BLOCK

Manufactured of cast aluminum with two machined brass FACE PLATES. Lines up stones three ways to assure accurate mounting of gem stones in the dop stick. Accurate milled slots. Clamps require only one-fourth turn for tightening or releasing. Clamps automatically drop out of way when loosened so dop can be removed

\$5.50

STERLING SILVER

LAPIDARY EQUIPMENT and Supplies

JEWELERS SUPPLIES

Tools & Findings



A NEW TREND IN GEMSTONES!!

BAROQUE CABOCHONS which preserve the natural shapes of the water worn gems and original crystals, yet are highly polished to bring forth the beauty of the stone.

IN WIDE RANGE OF SIZES AND COLOR — In AMETHYST, ROCK CRYSTAL with unusual inclusions, TOURMALINE, ROSE QUARTZ, CITRINE, AQUAMARINE, SMOKY QUARTZ and many others . . .

LIMITLESS POSSIBILITIES FOR JEWELRY — In pins, bracelets, charms, cuff links, pendants, earrings, belts, necklaces, buttons, etc.

May be mounted in Prongs, Bezels, or baskets for undrilled stones or may be used with chain, wire or screweyes for the drilled stones.

Size	Price per stone Baroque Cabochons	Price per stone Baroque Beads
Up to $\frac{1}{2}$ ".....	\$.90	\$1.90
Up to $\frac{3}{4}$ ".....	1.50	2.80
Up to $1\frac{1}{4}$ ".....	2.50	3.80
Over $1\frac{1}{4}$ ".....	Priced per stone	Beads not available larger sizes

Please add 20% Federal tax to all prices.

All stones sold on a money back guarantee. If you are not entirely satisfied return the stones within 10 days and your money will be promptly refunded.



WHILE STOCKS LAST

Yellow Tiger Eye — \$1.00 lb.

Blue Tiger Eye — \$2.00 lb.

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Please add 20% Federal tax to above prices on cutting material

10" Durite Sanding cloth discs, 120, 220, 320 grit 29c ea., 4 for \$1.00
10" Durite Speedwet cloth discs 120, 220, 400, 600 grit 45c ea., 3 for \$1.25
2½x27" sanding cloth belts 120, 220, 320 grit 3 for \$1.00
2½x27" speedwet sanding cloth belts 400, 600 grit 3 for \$1.40
3x8" drum sanders ½", ⅝", ¾", 1" arbor \$7.50 each

Balance scales with troy and carat weights—\$18.50
For weighing gems, silver and gold

All Prices F.O.B., Los Angeles

R and B ART-CRAFT CO.

11019 South Vermont Avenue, Los Angeles 44

PLeast 1-1326