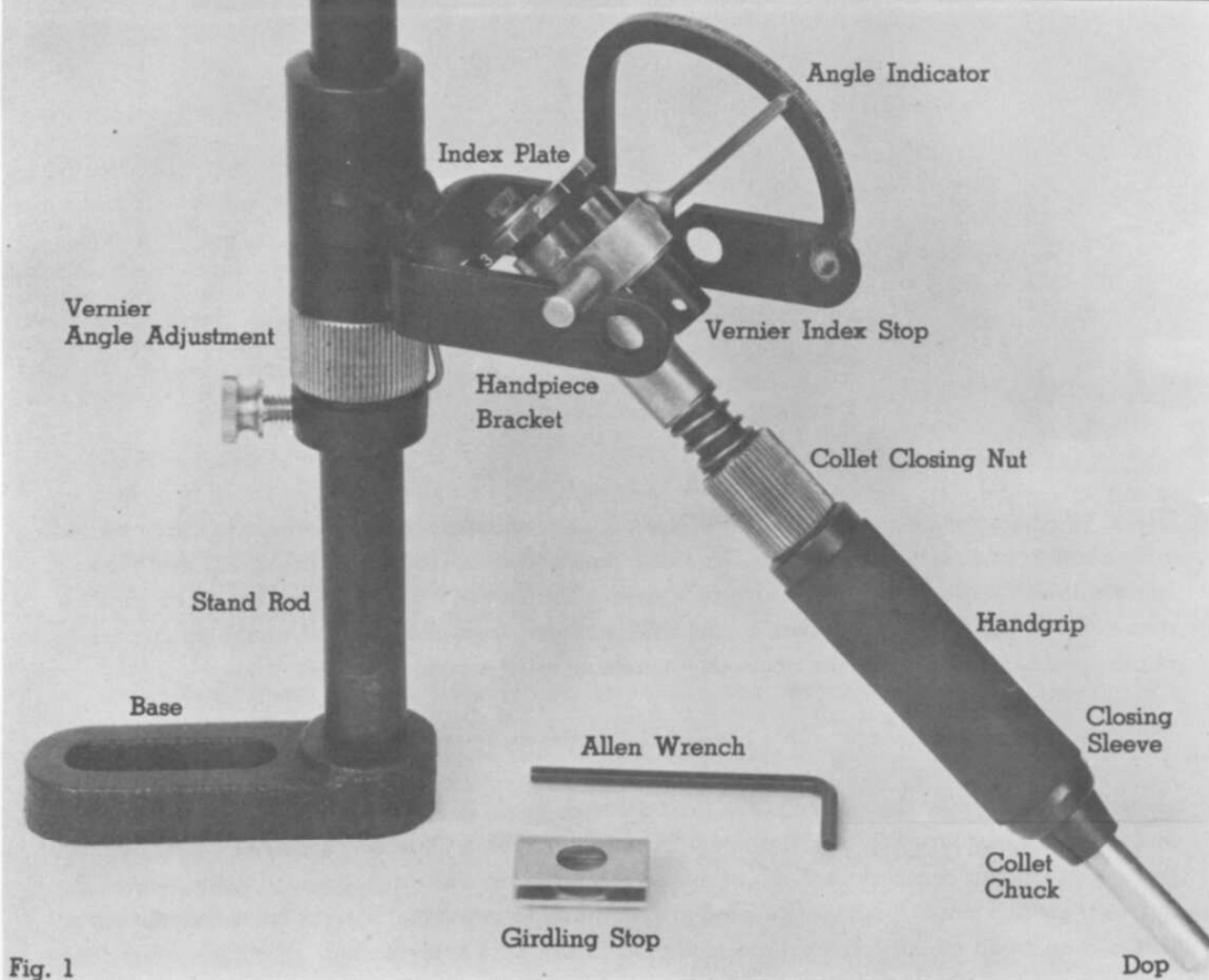
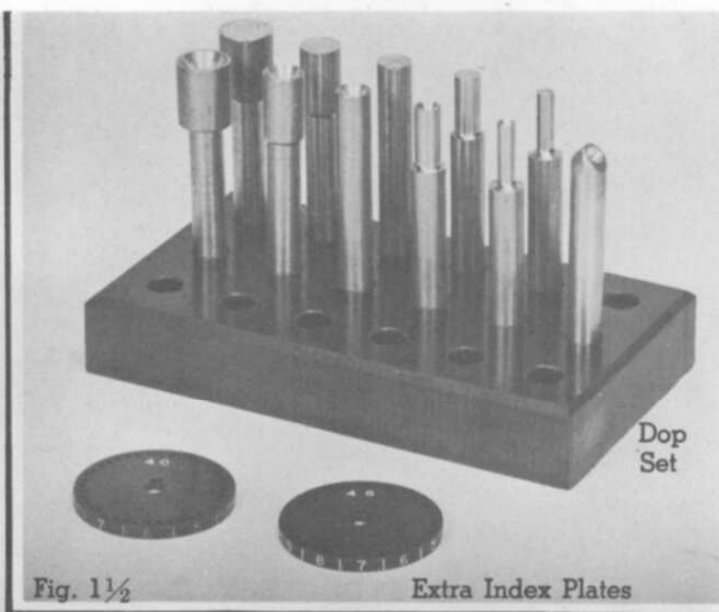


THE LEE FACET HEAD

Patent Applied For



Description and Operation



Fig. 2

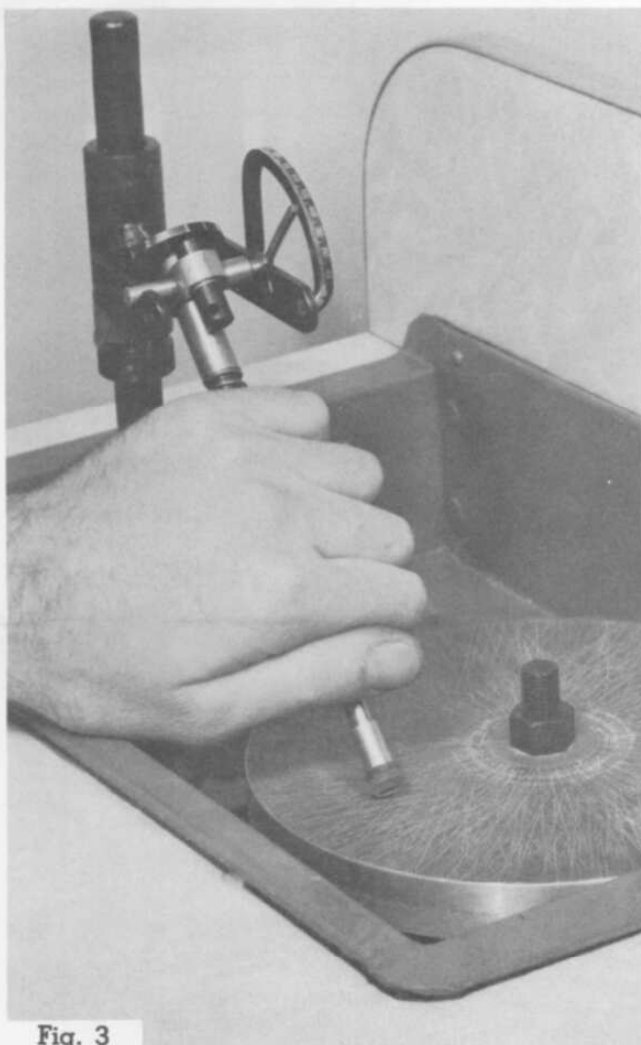
Mount Base on Surface Parallel to, and 2" or more below Lap Height. Place Bolt to Allow Positioning Various Sizes Stones and Angles.

Opening the Chuck

After Backing off Closing Nut One Turn Left, Grasp Handpiece as Shown. Give Handgrip Sharp Twist Left and Towards other Hand. To Close, merely Tighten Nut. Avoid Pressure on Pointer.

Use a $\frac{3}{8}$ " diameter bolt to fasten down base. Slot permits enough adjustment to make up for differences in various makes lap units. Mounting standrod within the pan is preferred, as it permits using a lower angle for cutting edges of straight-sided stones, and is convenient when girdling round stones (see Fig. 4). However, if your unit is a type where the standrod would mount outside of pan, you can cut out or make removable a suitable small section of the pan side.

Lee dops have a $\frac{5}{16}$ " shank with a beveled flat on the inner end. This flat allows removal of the dopped gem at any time, and quick replacement in exactly the same position at any time later, providing you have let the dop end fit in its place each time. To do this, hold loosened chuck open end up, insert and turn dop until it drops in place, then tighten. You may remove a partly finished gem while another one is worked on, or even while someone else uses the head, then replace the first gem for finishing. It is ideal for production cutting as individual rows of facets may be cut or polished on small or large lots before changing to the next angle or lap. If cutting other than round stones on a lot basis, align one of the straight sides of gem, (or a side where a main facet is to be, in the case of a gem with no straight side) to the lap while dop wax is soft, and with dop locked in place. If only one stone is to be cut and not removed before completion, this step is unnecessary as the dop can be turned to an aligned position before tightening chuck, and not dropped into notch.



Grip Lightly with Left Hand, Thumb as Shown, allowing Smooth Movement of Gem Across Lap. Use Downward Pressure as Needed. To Index, Swing up Towards Horizontal, exerting Backward Thrust While Turning to Next Facet. Handpiece Lifts Freely Out of Bracket for Facet Inspection, and Can Be Returned Quickly. Right Hand is Free for Varied Duties Such As Applying Abrasive or Polish, Handling Loupe or Other Instruments, Taking Notes, etc. This System Gives Right-Handed Person Maximum Adeptness on the Whole Since Handpiece Operation is Comparatively Simple and about as Easy to Learn with One Hand as The Other.

Fig. 3

A 32 hole index plate is standard equipment, being the number required for most cutting including the standard 57 facet round brilliant. As an example, the following refers to cutting its crown facets. Use the numbered holes 1 to 8 in cutting the main facets; the 8 holes alternated halfway between these and marked with straight lines are for the table facets, and the 16 unmarked holes, each between a number and a line, for the girdle facets. In making notes of the various holes or positions, the halfway marks are referred to as $1\frac{1}{2}$, $2\frac{1}{2}$, etc., the unmarked holes as $1\frac{1}{4}$, $1\frac{3}{4}$, $2\frac{1}{4}$, etc.

To remove index plate, loosen hollow-headed screw one turn with Allen wrench. Grasp handpiece in one hand with plate up, pressing up on index stop nut with tip of thumb, at the same time pulling up on opposite edge of plate with other hand until plate loosens. Then remove screw and plate. In replacing plate, hold back the spring loaded unit by hooking thumb over crossbar until plate is screwed down tight. Be sure offset hole in plate is over its pin.

To adjust vernier index stop, loosen vernier index nut by using Allen wrench as lever through hole in nut. Use the special nail supplied (not illustrated) to turn index pin to desired position, then re-tighten nut.

Entire facet head can be quickly taken apart for cleaning and re-lubricating when necessary. Use light cup grease on all inner surfaces.

Construction is mainly of steel and brass, but standrod base is cast iron, springs are stainless steel, handgrip is inlaid with Neoprene rubber. Steel parts have rustproof finish, but it is advisable to wipe off any moisture present after use, or wipe with oily cloth before leaving out of use over prolonged periods.



Fig. 4

Grinding Circumference of Round Stone. Left Hand Rotates Dop in opposite direction to Wheel. Right Hand turns Vernier Feed. Note Position of Girdling Stop.

NOTE: This pamphlet contains illustrated instructions designed to assist the user of the Lee Facet Head in its operation, and is given with the purchase of each Facet Head. It is not intended to completely cover the various phases of facet cutting; such detailed information may be obtained from various books and magazines available from dealers, publishers, libraries. We will gladly make recommendations if requested.

This same pamphlet may be sent out as a circular, and is no different from the copy supplied as instructions with facet head.

Prices and Information for Ordering **LEE FACETING Equipment**

Facet Head Complete with 32 Hole Index Plate, 1 Brass Dop, Girdling Stop, Allen Wrench, Index Adjusting Pin, Instructions.....**\$44.50** Complete
Shipping Wt. 4 lbs.

Set of 10 Dops in graduated size pairs, plus 1 Table Dop (5/16" shanks) in water-resistant Masonite Block..... **9.00** Set
Shipping Wt. 2 lbs.

Extra Index Plates, 40 or 48 hole..... **2.50** Each Plate
Shipping Wt. 1 or 2 plates 1 lb.

Ohio residents add 3% state sales tax.

Prices do not include transportation; please enclose remittance with order, including enough to cover Parcel Post shipment. Any overages will be refunded.

C. O. D. orders must be accompanied by a minimum payment of 25% of full amount.

Be sure to clearly state your NAME, ADDRESS, CITY, ZONE, STATE.

Order From:

LEE LAPIDARIES

Manufacturers of LEE Equipment

1916 West 75th Street - - Cleveland 2, Ohio

Note: As this goes to print, there is a plentiful supply on hand for immediate shipment of all equipment listed above. However, government restrictions on materials have practically halted further production, and these items are accordingly offered while the supply lasts.