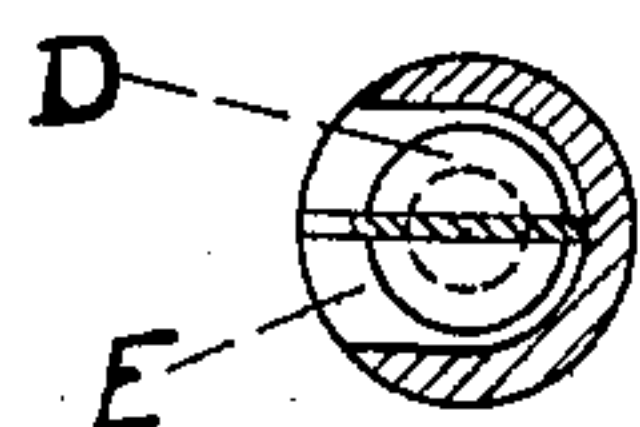
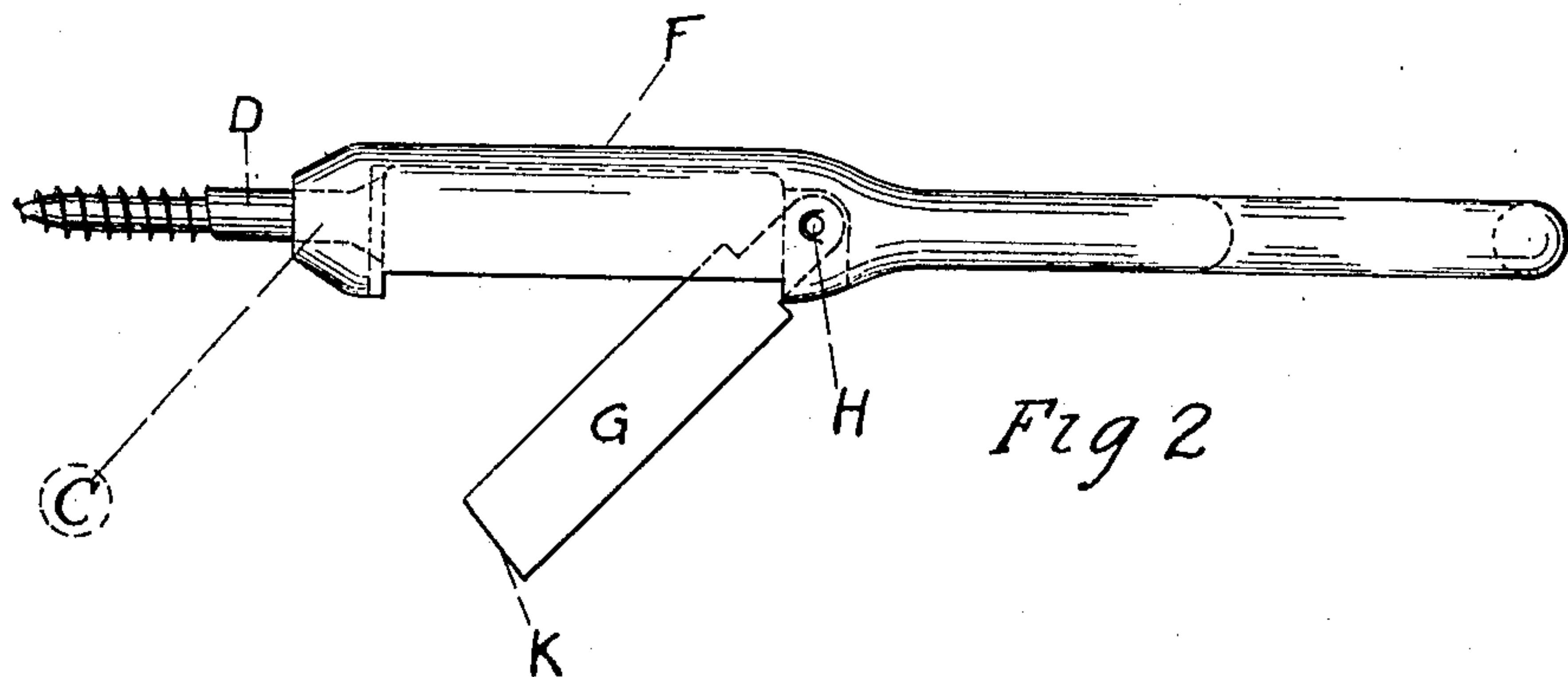
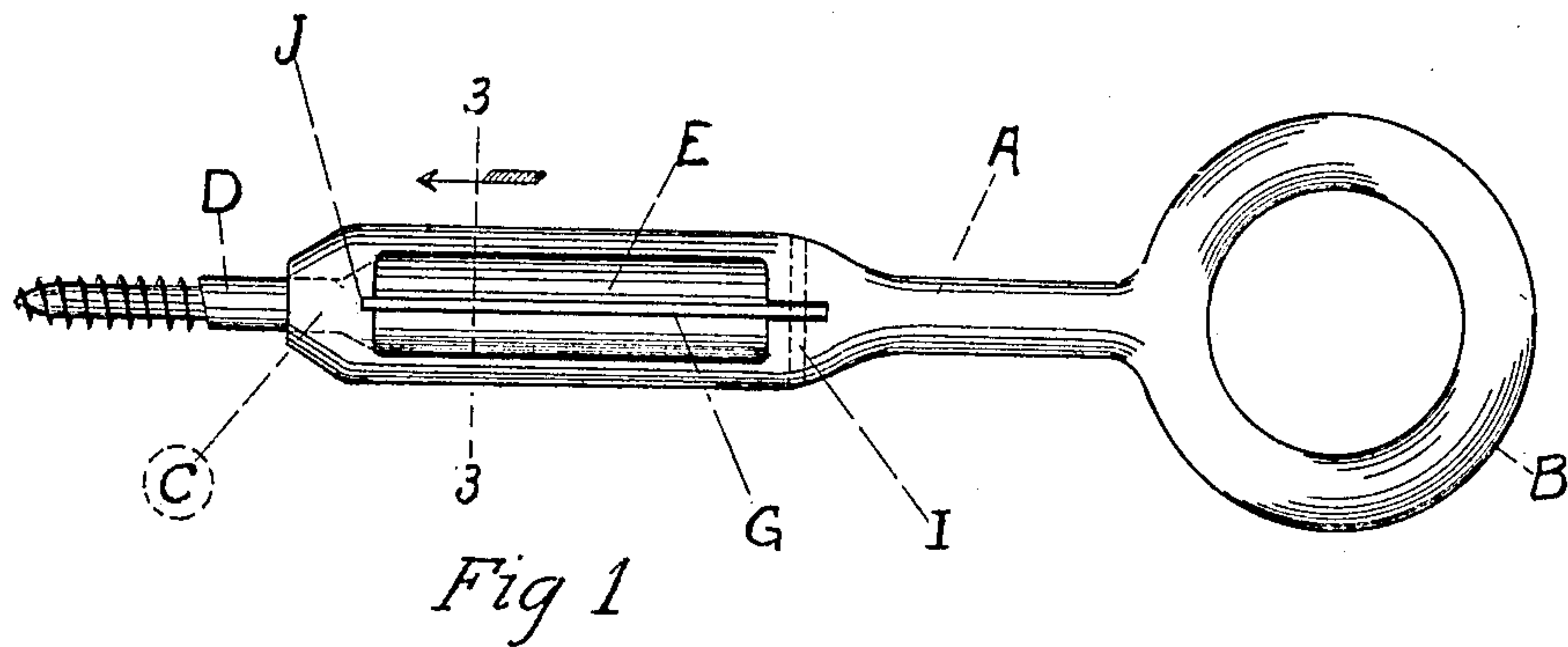


E. GRANT.
 FOUNDRY MOLDER'S DRAW SCREW.
 APPLICATION FILED APR. 29, 1908.

906,526.

Patented Dec. 15, 1908.



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UNITED STATES PATENT OFFICE.

EDWARD GRANT, OF CHICAGO, ILLINOIS.

FOUNDRY-MOLDER'S DRAW-SCREW.

No. 906,526.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed April 29, 1908. Serial No. 429,955.

To all whom it may concern:

Be it known that I, EDWARD GRANT, a citizen of the United States, residing at 498 Leland avenue, Chicago, Illinois, have invented a new and useful Improvement in Foundry-Molders' Draw-Screws, of which the following is a specification.

The object of my invention is to produce a handy, serviceable draw screw for molders' use in drawing patterns from the sand, and its principal feature is its peculiar construction whereby the screw part may be renewed or changed for different size of screws, thus making unnecessary several complete devices of this kind, which a molder was before required to have on hand and it saves cost of renewals of the screw points as a new screw can be put in, in a moment's time instead of cutting a new thread on the old handle or stock or getting a new stock which was the old practice.

Reference will be had to the accompanying drawings wherein: Figure 1 is a plan view of the device with the latch closed. Fig. 2 is a side view with the latch open. Fig. 3 is a cross-section on line 3--3 of Fig. 1.

In the drawing A indicates an ordinary handle or stock made of any suitable metal and provided with a hand ring B for use in pulling the pattern.

At the lower end of the stock there is an aperture C in which there is seated a screw D here shown of a style like an ordinary flat head wood screw. The aperture C opens into a side cavity E of the handle which cavity E is closed at the back side F. Which side F is used as a hammer or jarrer by the molder in his work. In the cavity E there is located a latch or blade G, hinged on a pin H in a slot I at end of cavity E and the lower end K of blade or latch G is slightly beveled to permit its revolving into the slot J of the screw head of screw D which it locks in place when the blade or latch G is shut into the cavity E as is shown by Fig. 1. Thus the screw D is secured firmly with the stock and may readily be removed by jarring the latch into position of Fig. 2, when the screw may be removed through the cavity.

What I claim is:

1. A draw screw of the class described composed of a handle with a cavity in the side of the body thereof and an aperture in

the end of the cavity adapted to receive and furnish a seat for a screw and a latch locking the screw both for end thrust and against revolving said latch pivoted in the body of the handle adapted to be revolved into and out of engagement with the screw; said cavity in the handle open at one side only of the handle whereby the opposite side may be used for a hammer or jarrer as described, and the action of hammering will tighten instead of loosen the latch.

2. In a device of the class described, a handle provided with a ring in one end, an aperture in the other end extending lengthwise of the handle, a cavity in the side of the handle connecting to the aperture said cavity larger than the aperture whereby a screw may be inserted head and all into the cavity and thereby enter the thread of the screw into the aperture, a latch hinged within the cavity and adapted to revolve to lock and unlock the screw into the aperture.

3. A device of the class described composed of a handle provided with a ring or an enlargement of the upper end giving a good hand hold, a seat or aperture at the other end of the handle adapted to hold a screw in line with the handle and means for locking the screw into the aperture or seat with a bulbous enlargement or other part of the handle at or near the screw end adapted to be used as a hammer or jarrer in use as described.

4. In a device of the class described, the combination with a handle provided with a lateral recess between its ends and with a passage extending from said recess to one of said ends and adapted to permit a screw inserted in the recess to be advanced longitudinally in said passage until its threaded portion projects therefrom and its head engages parts surrounding the passage, of a latch arranged to move laterally into and out of the slot in the head of a screw so placed, substantially as set forth.

In witness whereof I hereunto sign my name on this 23rd day of April, 1908 at Chicago, Illinois, in the presence of two subscribing witnesses.

EDWARD GRANT.

Witnesses:

JOHN C. HAMILTON,
JOHN GRANT.