Jan. 2, 1923. 1,440,450

C. E. FOLK.

MANDREL FOR SQUARING PISTONS.

FILED AUG. 26, 1920.

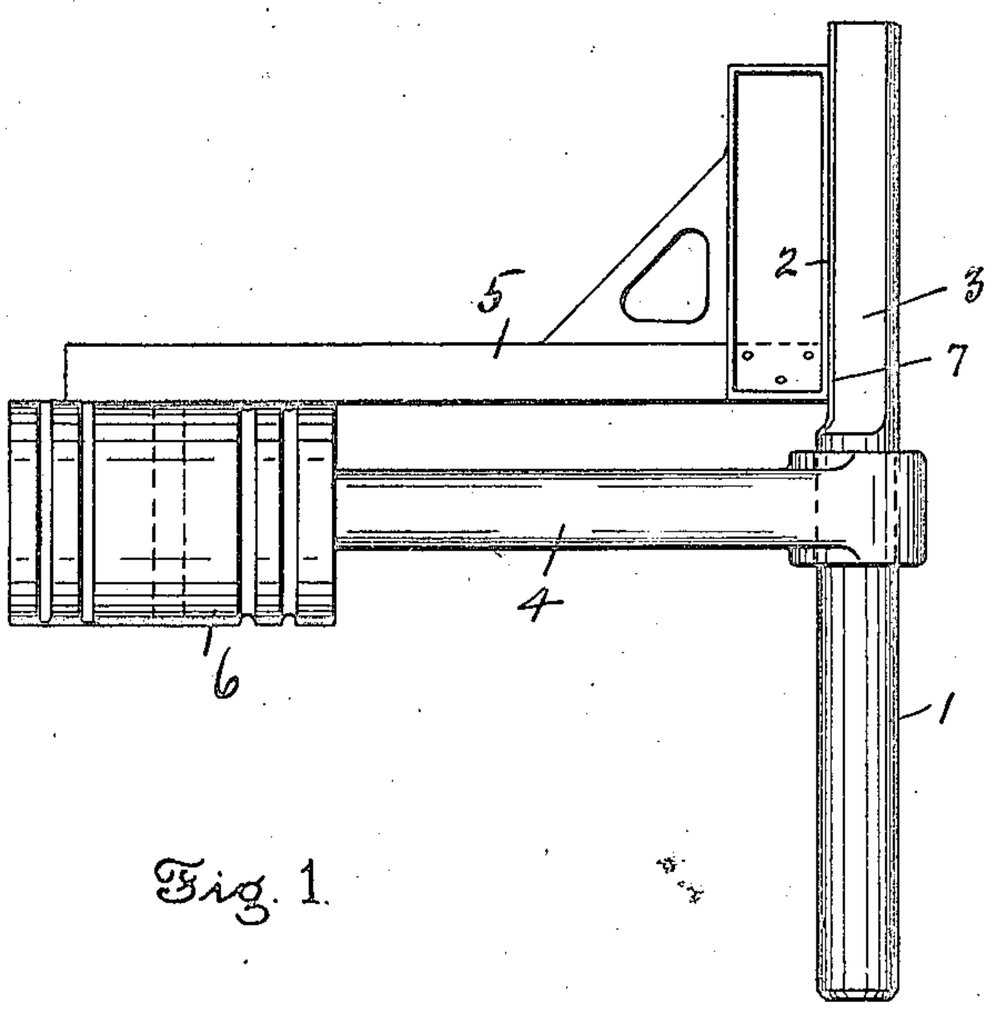

Fig. 1.

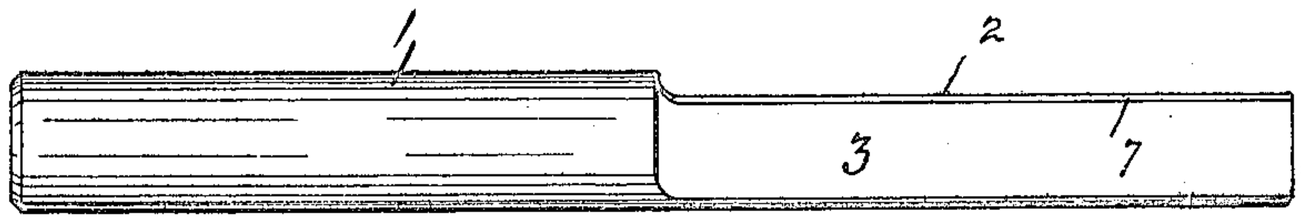

Fig. 2.

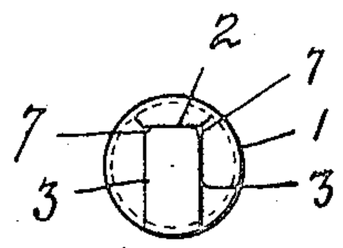

Fig. 3.

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Patented Jan. 2, 1923. 1,440,450

UNITED STATES PATENT OFFICE.

CHARLES E. FOLK, OF BALTIMORE, MARYLAND.

MANDREL FOR SQUARING PISTONS.

Application filed August 26, 1920. Serial No. 406,204.

To all whom it may concern:

Be it known that I, CHARLES E. FOLK, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Mandrels for Squaring Pistons, of which the following is a specification.

The invention relates to improvements in mandrels for squaring pistons, and has for its object to provide a simple, cheap and efficient device for setting pistons through on the crank shaft.

The invention consists of the novel construction and arrangement of the parts and combination of parts hereinafter more fully set forth in the following specification and pointed out in detail in the appended claim.

In the accompanying drawing,

Figure 1 is a side view of my invention projecting through the end of a connecting rod and showing the piston being squared thereon.

Figure 2 is an enlarged side view of the mandrel.

Figure 3 is an end view of Figure 2.

Referring to the accompanying drawing forming part of this specification and in which like reference numerals designate like parts throughout the several views thereof, 1 designates the mandrel which is round at one end and has its opposite end cut away to form the flat top 2 and sides 3, the flat upper side 2 being for the purpose of holding the square when the piston is being squared on the connecting rod. The flat sides 3 are clamped between a vice (not shown) or other suitable tool for holding the mandrel when in use. The end of the mandrel having the flat top and sides is smaller in diameter than the rounded end.

The round end of the mandrel 1 is placed in the end of the connecting rod 4 as shown in Figure 1, and the square 5 is placed on the flat surface 2 of the mandrel with its upper edge projecting against the outer surface of the piston 6 and when the latter is perfectly square on the rod 4 the mandrel 1 is removed from the rod 4 and the piston is then connected up to the crank shaft of the engine. The edges 7 of the upper surface 2 is slightly bevelled to prevent injury to the said surface 2 when the device is clamped in a vice or other holding means.

Having thus described my invention what I claim is:

A mandrel for squaring pistons being rounded at one end and cut away at its opposite end to form two flat side surfaces and a flat upper surface, the edges of said flat upper surface being slightly beveled, and the end having the cut away sides and top being smaller in diameter than the rounded end.

In testimony whereof I affix my signature.

CHARLES E. FOLK.