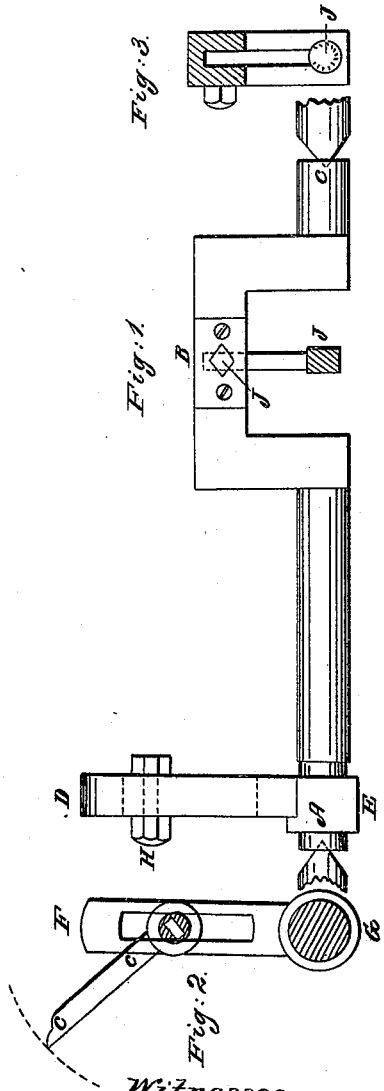
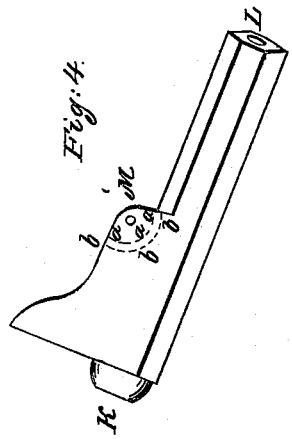
A. REBETEY.

Manufacture of Fire Arms.

No. 23,944. Patented May 10, 1859.




Witnesses:

Albert Beach

Joseph Bauler

Inventor:

Augustus Rebetey.

# UNITED STATES PATENT OFFICE.

AUGUSTUS REBETEY, OF NORWICH, CONNECTICUT.

## TOOL FOR MANUFACTURE OF FIREARMS.

Specification of Letters Patent No. 23,944, dated May 10, 1859.

*To all whom it may concern:*

Be it known that I, AUGUSTUS REBETEY, of the city of Norwich, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Tools for the Manufacture of Firearms; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference thereon.

A B C, Figure 1, represents a crank shaft suspended in an engine lathe at centers A, C.

D E, Fig. 1, represents an arm attached to the crank shaft, and F G, Fig. 2, a similar arm, to be attached to the counter shaft of lathe. The arm F G, is shorter than that of D E, so that a revolution of F G, will produce only a partial revolution or a vibration of D E. The arm D E, receives motion from that of F, G, by means of a rod, *c*, *c*, attached to the bolt H, on arm D E and a similar bolt on arm F, G. Each arm has a slot, within which the bolt is secured by a nut so that the length of throw of the crank shaft may be varied.

I, Figs. 1 and 3, represents a cutter, secured to crank shaft by screw J.

K L, Fig. 4, represents a barrel of a cylinder pistol. The barrel Fig. 4 has a slot cut in it by a circular cutter, as shown by the dotted lines, *a*, *a*, *a*. The shape of this slot is a part of a circle, having its center at M. But it is essential that the circular or bottom surface of such slot, Fig. 4, be deepened, so that it will become eccentric to the point M, and this cannot be effected by an ordinary revolving, circular cutter. To accomplish this the barrel Fig. 4 is secured to the tool rest of a lathe, in a position similar to that shown in Fig. 4, and the counter shaft of lathe, being caused to revolve, will cause the crank shaft, A B C, carrying the cutter I, to vibrate. If the barrel Fig. 4 be moved by the screw attached to the tool rest of lathe, toward the cutter I, the slot *a a a* in barrel will thereby be deepened to an eccentric shape, similar to the dotted line *b b b*, as shown in Fig. 4 in a quick and complete manner. The shape and position of the slot may be varied by raising or lowering the tool rest, by means of the ordinary screw for that purpose, at the outer end of tool rest.

What I claim as my invention, and desire to secure by Letters Patent is—

The use of a crank shaft A, B, C, to carry a cutter I, such crank shaft, suspended at the centers of an engine lathe, or any similar machine, and receiving its motion from the counter shaft, of such lathe or similar machine. For the purpose of cutting an eccentric shaped slot in the barrel of a pistol, or any thing else.

AUGUSTUS REBETEY.

Witnesses:

ALBERT BEACH,

L. H. GODDARD.