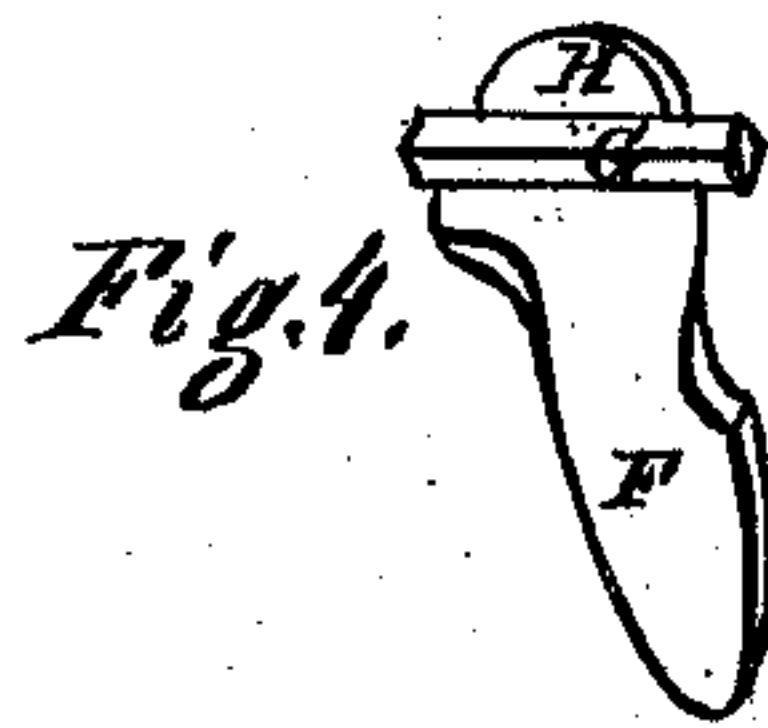
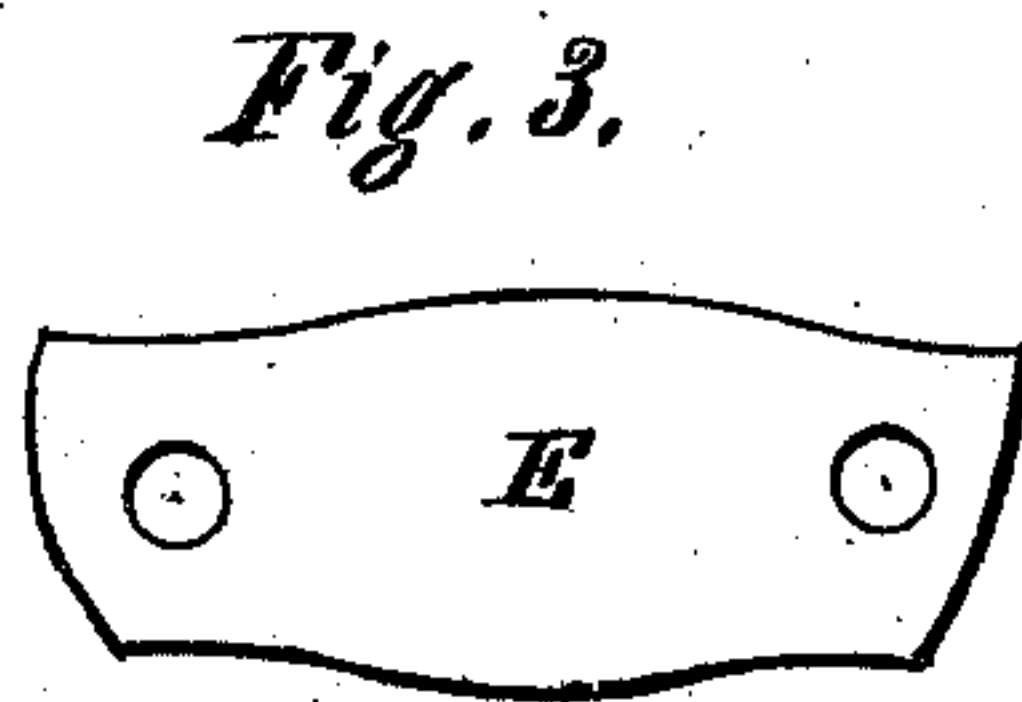
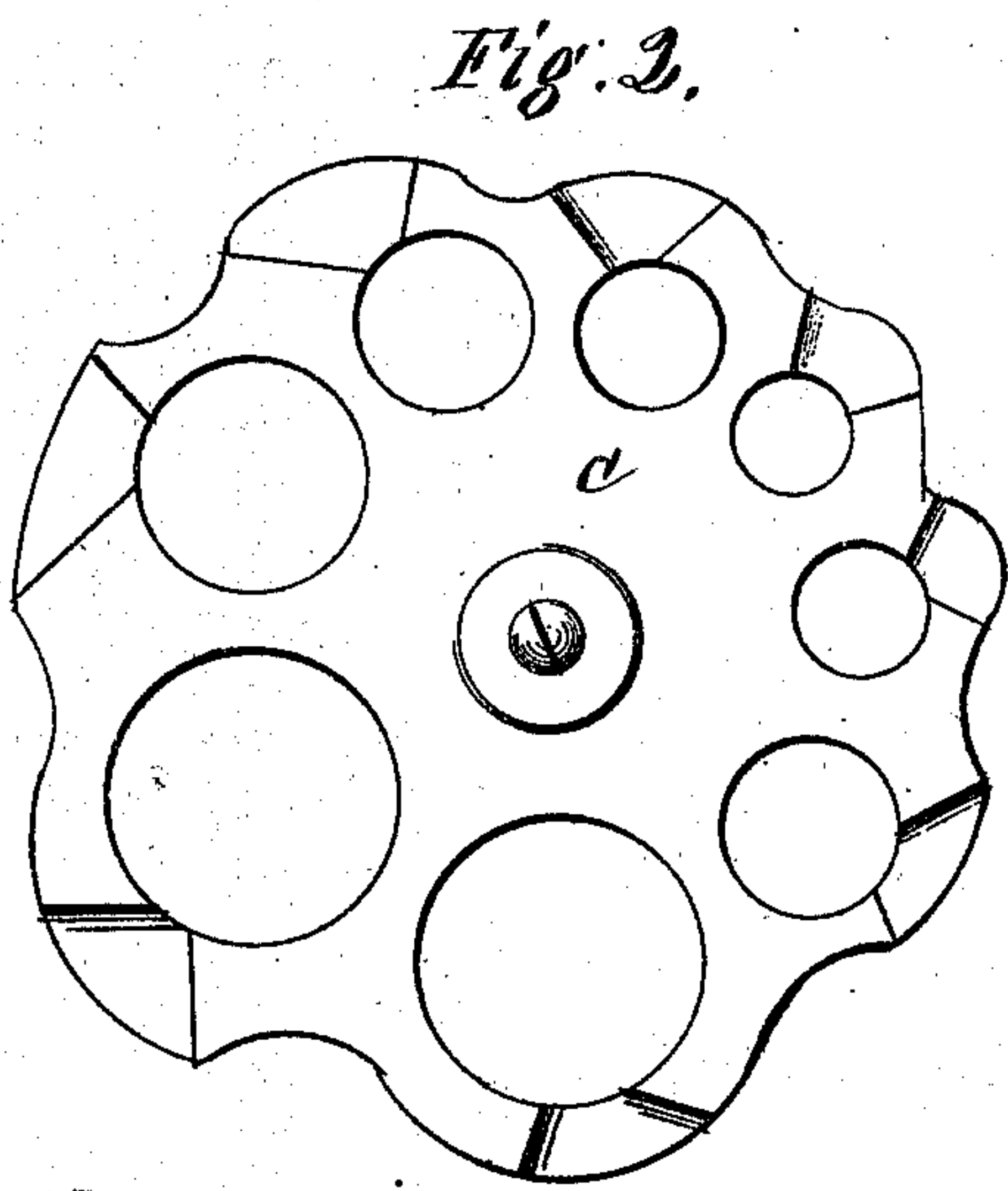
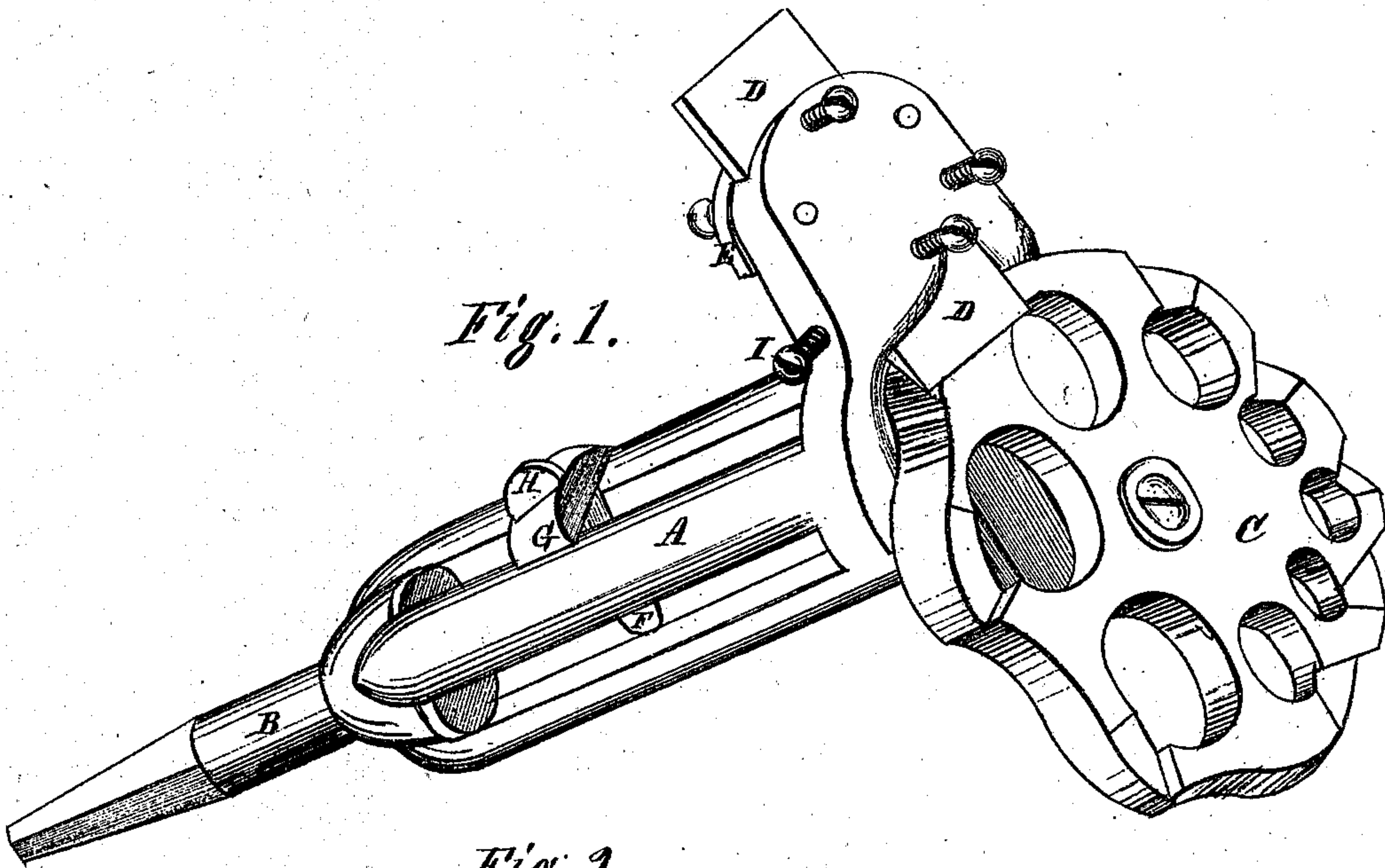


*C. S. Bonney,*

*Hollow Auger.*

*No. 105,896.*

*Patented Aug. 2. 1870.*



*Witnesses.*

*J. A. Morley*  
*Wm S. Burdett*

*Inventor.*

*C. S. Bonney*



# United States Patent Office.

CHARLES S. BONNEY, OF SYRACUSE, NEW YORK.

*Letters Patent No. 105,896, dated August 2, 1870.*

## IMPROVEMENT IN HOLLOW AUGER.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, CHARLES S. BONNEY, of Syracuse, State of New York, have invented a new and useful Improvement in Hollow Augers; and I do hereby declare that the following is full and complete description of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 is a perspective view of the auger complete.

Figure 2 is a view of the revolving disk.

Figure 3, a view of the bar which holds the knife.

Figure 4, view of adjustable piece, by which the tenon may be made of different lengths.

The nature of my invention consists in making a hollow auger, which will be easily adjusted to cut different sizes and lengths of tenons.

To describe my invention more fully—

A is a metal cylinder or barrel, with longitudinal slots or openings, with the metal shank B in the lower end, and the revolving disk C and knife D on the upper end.

B is a shank for connecting the auger to a brace or other device for using the same.

C is a disk, which revolves upon a pin or hub on the barrel A, with different sizes of holes in it, to correspond with the different sizes of tenons that it is desired to make.

D is the knife, which cuts the tenon to fit any sized hole to which it is set, and which can be elevated or depressed by the three screws bearing upon its upper surface, and which is held in position by the bar E, which is pressed against its under surface by screws at each end, and by the screws I against the edge.

F is a piece, which is held inside by the barrel A, by means of the cross-bar G and screw H, and which can be moved up and down, so as to make the tenon of any desired length.

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

The revolving disk C and movable piece F, constructed and arranged substantially as specified, and for the purpose set forth.

CHARLES S. BONNEY.

Witnesses:

A. T. BONNEY,

B. MCGUIN.