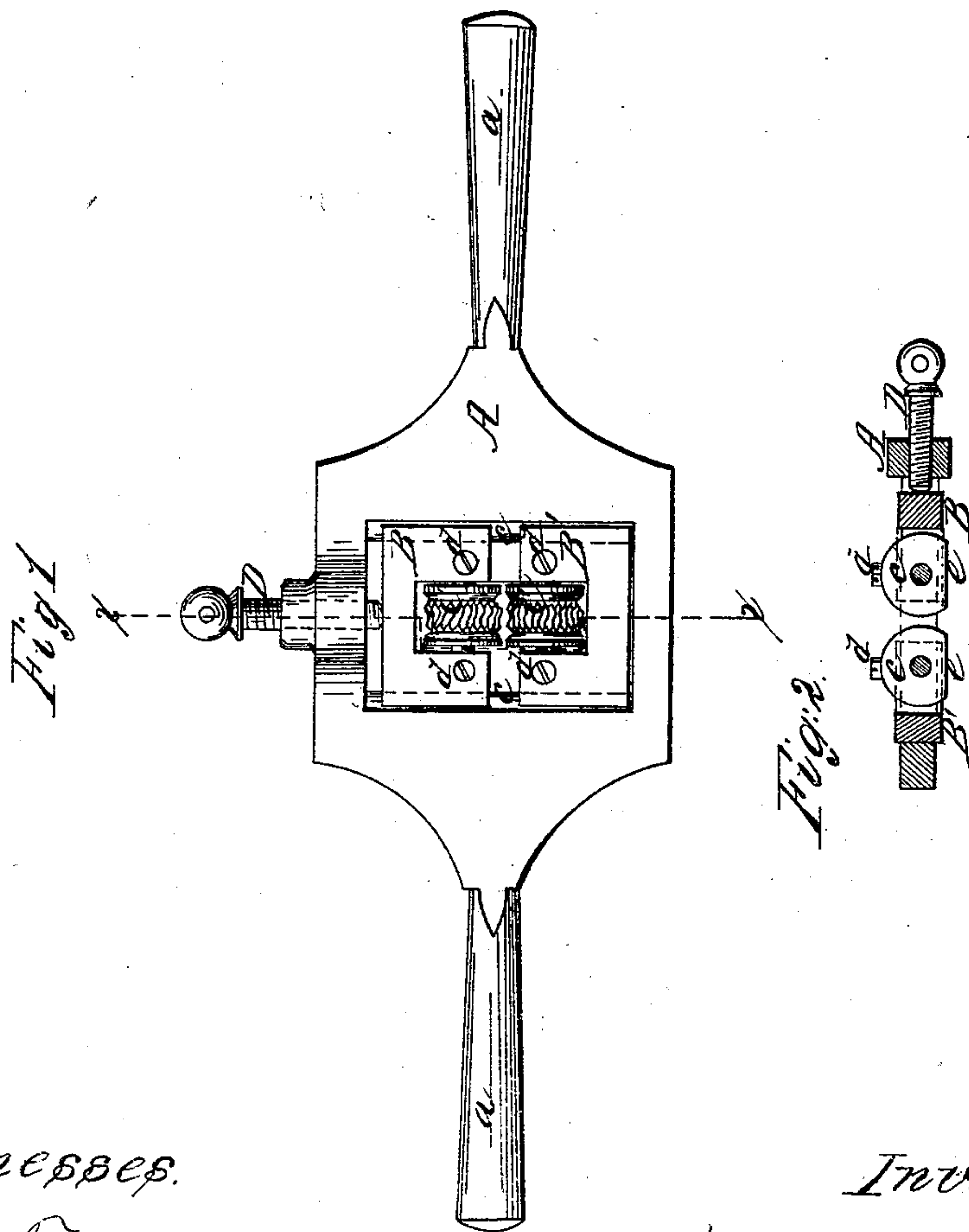


H. Gill,
Screw-Cutting Die,
N^o. 68,498. Patented Sep. 3, 1867.



Witnesses.

*Wm. Freun
 & Blackley*

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United States Patent Office.

HENRY GILL, OF MANSFIELD, OHIO.

Letters Patent No. 68,498, dated September 3, 1867.

IMPROVED SCREW-PLATE FOR CUTTING SCREWS.

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, HENRY GILL, of Mansfield, in the county of Richland, and State of Ohio, have invented a new and improved Screw-Plate for Cutting Screws; and that the following description, taken in connection with the accompanying drawings hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

This invention consists in providing a screw-plate with circular dies fitted in sliding or adjustable plates, which are placed on guide-rods secured in a stock, and all arranged in such a manner that the dies may be turned, so that a fresh or new cutting-surface may always be obtained whenever the dies become worn at one point. These circular dies are flattened or cut off, so as to have plane surfaces to admit of the dies working or cutting up to a shoulder on a bolt or rod. In the accompanying sheet of drawings—

Figure 1 represents a side view of my invention.

Figure 2, a transverse section of the same, taken in the line *x x*; fig. 1.

Similar letters of reference indicate like parts.

A represents the stock of the screw-plate, provided with two handles, *a a*, and having a rectangular opening at its centre, in which two plates, *B B'*, are fitted on guide-rods *e e*. In these plates *B B'* dies *C C* are fitted, the axes of which extend into or have their bearings in the plates, the dies being secured or prevented from turning by means of set-screws *d* which pass into the plates, and bear against the axes of the dies. The dies *C C* are of circular form, or may be described as circles with a portion or segment cut off to form plane surfaces, as shown at *e e* in fig. 2. A screw, *D*, passes through one side of the stock, and bears against the plate *B*, the dies being set to suit the diameter of the rod on which the screw is to be cut by turning the screw *D*.

From the above description it will be seen that when the dies *C C* become worn at any particular point, they may, by loosening the set-screws *d d*, be turned so as to obtain a fresh or new cutting surface; and by having the dies provided with plane surfaces *e e* they may be made to cut up closely to shoulders or heads on a rod or bolt. This screw-plate may be constructed at a very small cost, and the dies will last a long time, owing to the length or extent of their cutting surfaces.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The circular dies *C C*, with plane surfaces *e e*, arranged, adjusted, and held in position in the manner substantially as and for the purpose specified.

HENRY GILL.

Witnesses:

GEO. A. CLUGSTON,
CARLOS N. CLUGSTON.