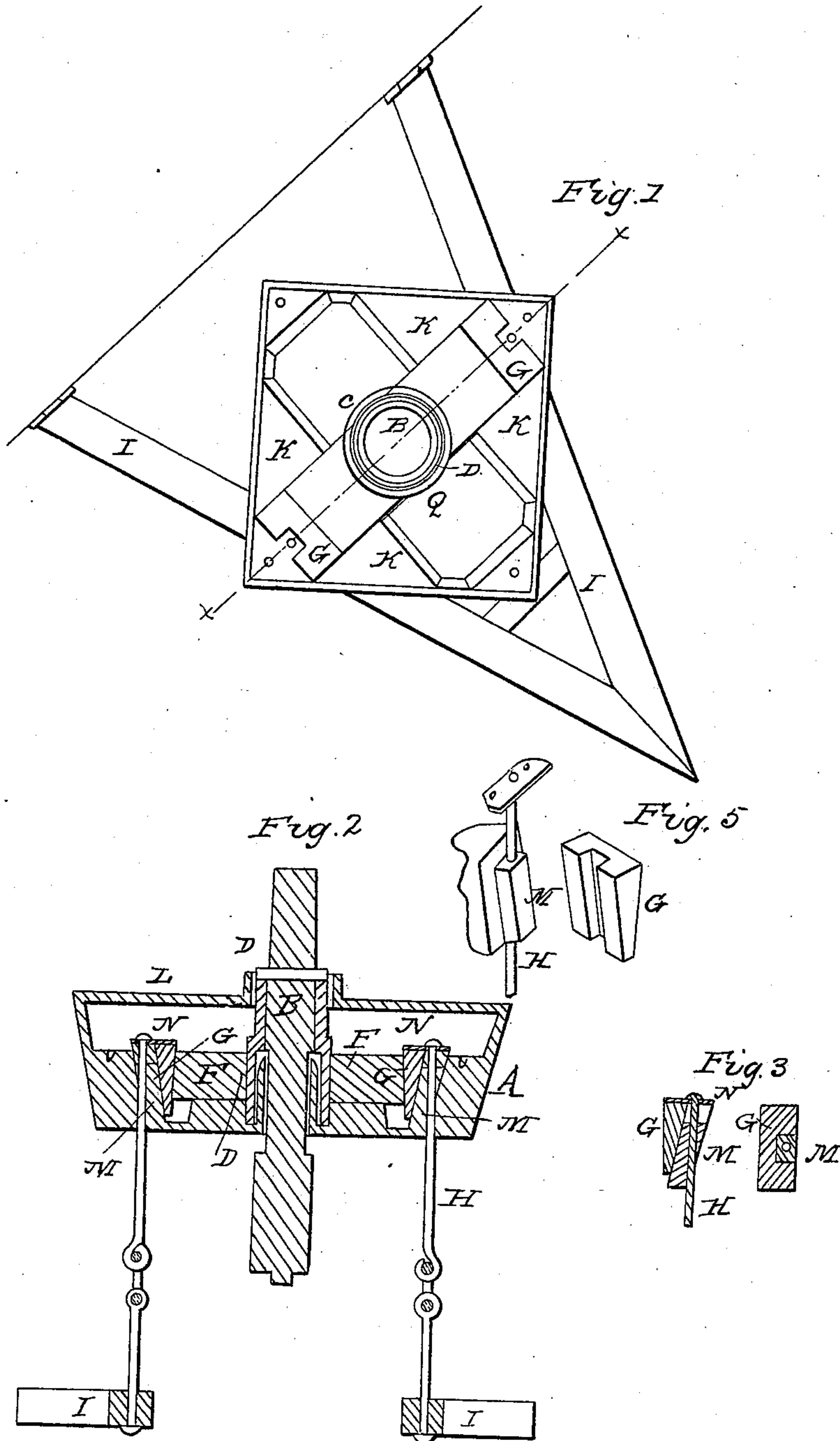


J. AULABAUGH.

Mill Bush.

No. 1,701.

Patented July 18, 1840.



# UNITED STATES PATENT OFFICE.

JACOB AULABAUGH, OF EAST BERLIN, PENNSYLVANIA.

## MILL-BUSH.

Specification of Letters Patent No. 1,701, dated July 18, 1840.

*To all whom it may concern:*

Be it known that I, JACOB AULABAUGH, of East Berlin, Adams county, State of Pennsylvania, have invented a new and useful Improvement in Mill-Bushes, called the  
5 "Self-Tightening and Self-Oiling Bush," which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

10 Figure 1 is a horizontal section. Fig. 2 is a vertical section at the line  $x, x$ , of Fig. 1; Fig. 3, vertical section of the wedge and tube. Fig. 4, horizontal section of ditto. Fig. 5 is a perspective view of the wedge, and hollow stem.

15 Similar letters refer to similar parts in the figures.

This mill bush consists of a cast iron box A to contain the oil with a round aperture through the center of the same for the spindle B to pass through, surrounded by a circular ledge or curb C rising from the bottom of the box and cast with it for preventing the escape of the oil through the opening, which circular ledge or curb enters a  
25 circular aperture D in the spindle B which allows the outside of the spindle to be constantly immersed in the oil without the danger of its escape through the bed stone.

30 The bush is self adjustable and consists of two blocks F, F, concave on the ends bearing against the outside of the spindle and sloped on the opposite ends against which descending wedges G G are placed to which  
35 rods H H are attached passing through the bottom of the oil box from which weights are suspended for increasing the gravity of the wedges and the pressure of the bush against the spindle, by means of an acute angled lever I to which the rods are attached whose feet rest on or are attached to the frame the weight or weights being

suspended to the angle of the lever by any suitable means.

The bush and wedges are caused to move truly by guides K on the bottom of the oil box, and for the purpose of keeping out all dust from the oil the box is covered with a top L screwed thereon.

The spindle is made in two parts keyed together by a horizontal key or bolt passing through them the center part, to which the runner is attached is made similar to the common spindle and the outside part which embraces and turns over the circular curb and against which the bush is pressed by the wedges is a hollow cap, nearly the depth of the oil box and of any convenient diameter.

The escape of the oil through the bottom of the box at the apertures for the rods is prevented by hollow stems M rising from the bottom of the box nearly as high as the curb, through which stems the rods H pass and over which the wedges move by making openings in them corresponding with said stems. The ends of the rods are fastened to plates N secured to the tops of the wedges. The wedges descend no lower than the bottom of the box and do not pass through it as in Welsh's bush.

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

The mode of preventing the escape of the oil at the apertures through which passes the connection between the weight and wedge by the combination of the rod attached to the weight, the hollow stem and the opening in the wedge into which the hollow stem fits as herein set forth.

JACOB AULABAUGH.

Witnesses:

JOHN PICKING,  
GEO. L. FAUSS.