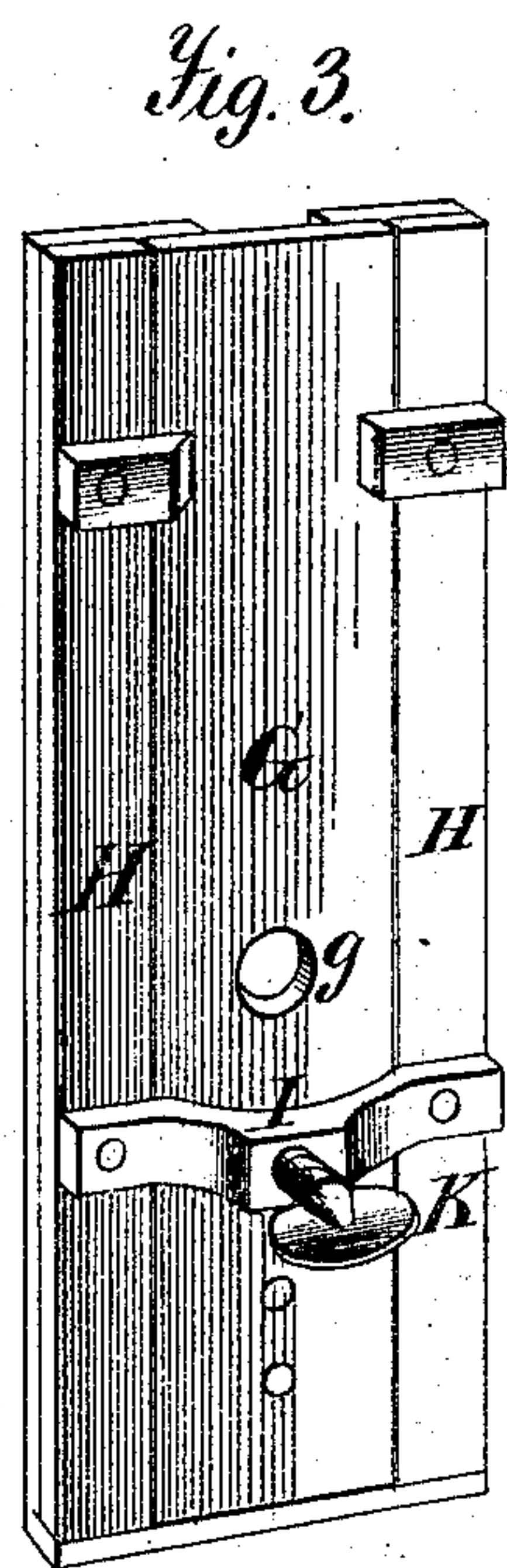
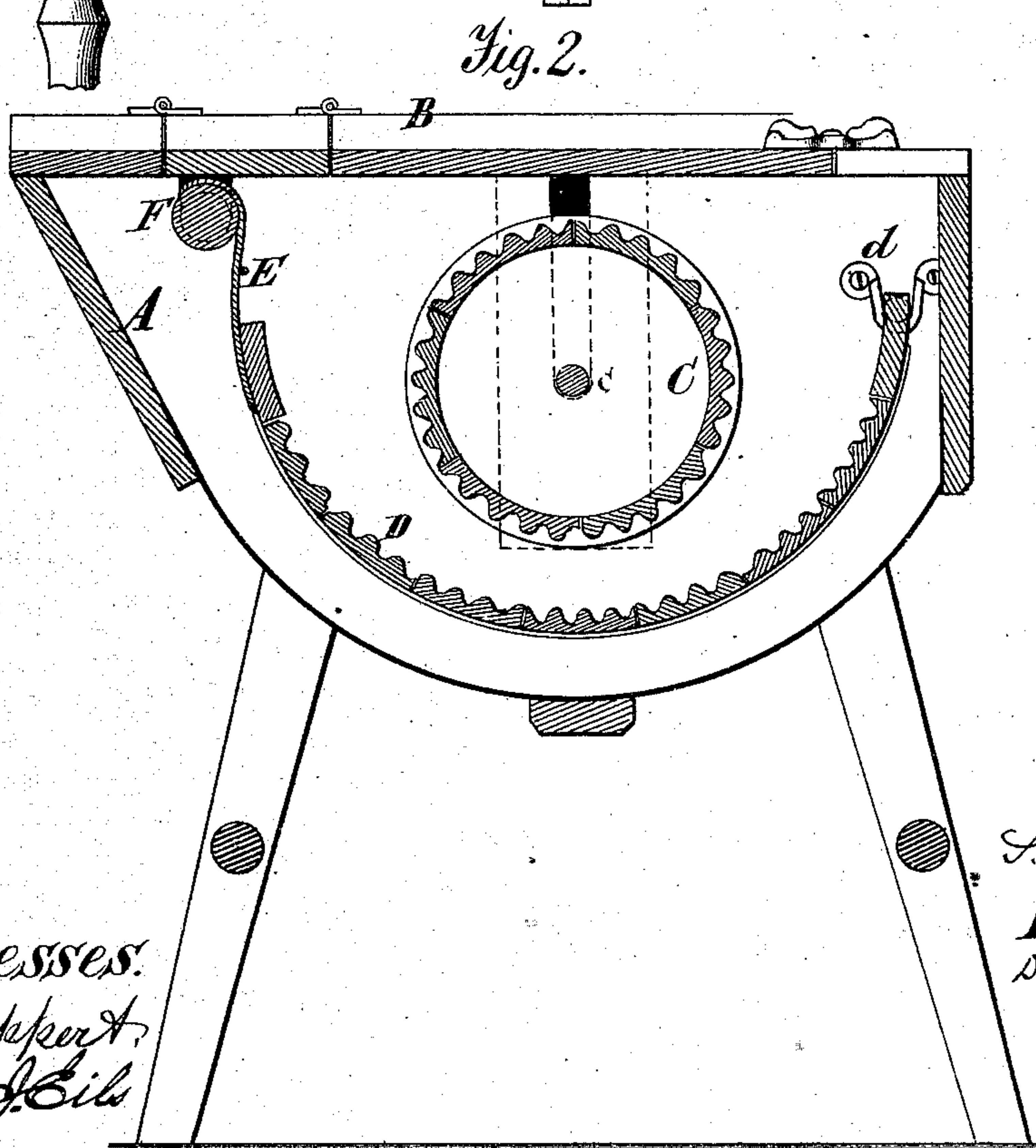
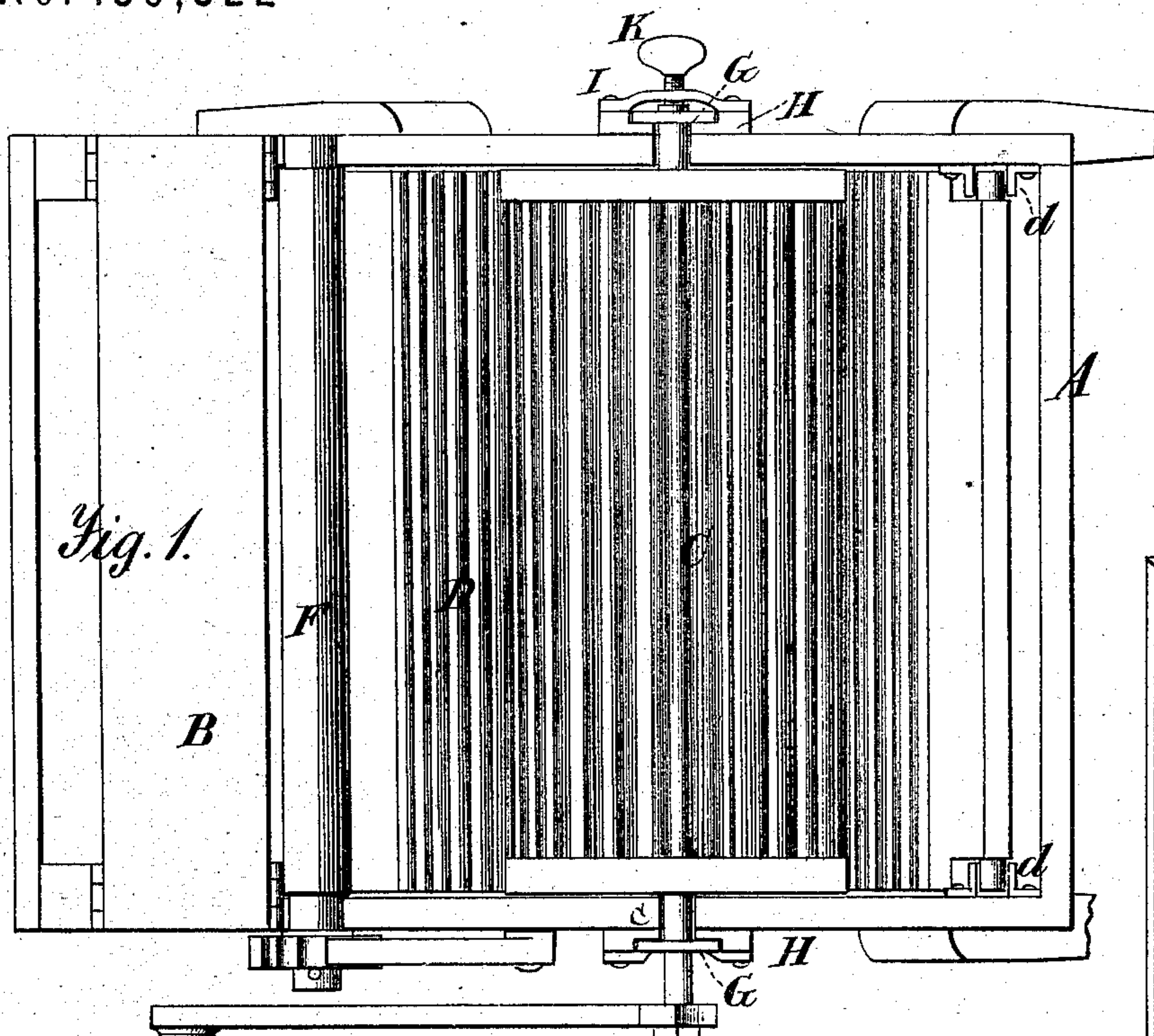


S. HAWKINS.  
Washing-Machine.

No. 159,322

Patented Feb. 2, 1875.



*Witnesses:*  
*A. Ripport*  
*Chas. J. Eile*

*S. Hawkins*  
*Inventor.*  
*D.P. Hollonay & Co*  
*Atty.*



# UNITED STATES PATENT OFFICE.

SAMUEL HAWKINS, OF METAMORA, INDIANA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 159,322, dated February 2, 1875; application filed December 17, 1874.

*To all whom it may concern:*

Be it known that I, SAMUEL HAWKINS, of Metamora, in the county of Franklin and State of Indiana, have invented a certain Improvement in Washing-Machines, of which the following is a specification:

The present invention is intended as an improvement upon the washing-machine for which Letters Patent of the United States were granted to me June 17, 1873; and it consists in combining with the reversible bearing-blocks, such as are there shown for the support of the corrugated rubbing-cylinder, a fixed yoke or bridge, one for each, with a set-screw, by means of which the bearing blocks or slides can be held suspended in their ways or guides at any desired elevation, thus greatly increasing the range of adjustability of the rubbing-cylinder.

In the annexed drawings, Figure 1 is a plan view of my improved washing-machine. Fig. 2 is a vertical section of the same, in a plane at right angles to the axis of the rubbing-cylinder. Fig. 3 is a perspective view of one of the reversible and vertically-adjustable bearing blocks.

The same letters of reference are used in all the figures in the designation of identical parts.

The suds-box A, covered by the articulated lid B, contains the rubbing-cylinder C and the flexible concave D. The latter is composed of a series of corrugated bars flexibly connected together, preferably by copper straps, and is hung at one end in fixed metallic bearings *d d*, while its other end terminates in an apron, E, of cloth or thin sheet-copper, attached to the windlass F, by means of which it may be wound up to draw it closer up to the rubbing-

cylinder. The journals *c c* of the rubbing-cylinder play in vertical slots in the sides of the suds-box, and turn in the bearing-blocks G G, arranged between fixed cleats, forming ways or guides H upon the box A. The journal-eye *g* is nearer to one end of the blocks than to the other, so that by reversing the blocks the elevation of the rubbing-cylinder can be changed, the same as in the machine covered by my said former patent. Further provision for vertical adjustability is made by devices for clamping the blocks G against the sides of the box at varying elevations. These devices consist of a fixed bridge-piece, I, and a set-screw, K, for each block, the bridge-piece spanning the block, while the set-screw, fitting a nut in the bridge-piece, may be forced up against the block. I prefer to make the bearing-blocks of iron, and they may also be provided with a vertical series of counter-sinks, as indicated in Fig. 3, to afford the set-screw a better hold. The iron fixtures may be galvanized to prevent corrosion.

I distinctly disclaim a yielding adjustable rubbing-cylinder, such as shown, for instance, in the patent of D. Arndt, October 5, 1869.

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

The combination of the rubbing-cylinder C, bearing-blocks G *g*, fixed bridge-pieces I, and set-screws K, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL HAWKINS.

Witnesses:

J. H. BLACKLEDGE,  
J. J. RUBOTTOM.