

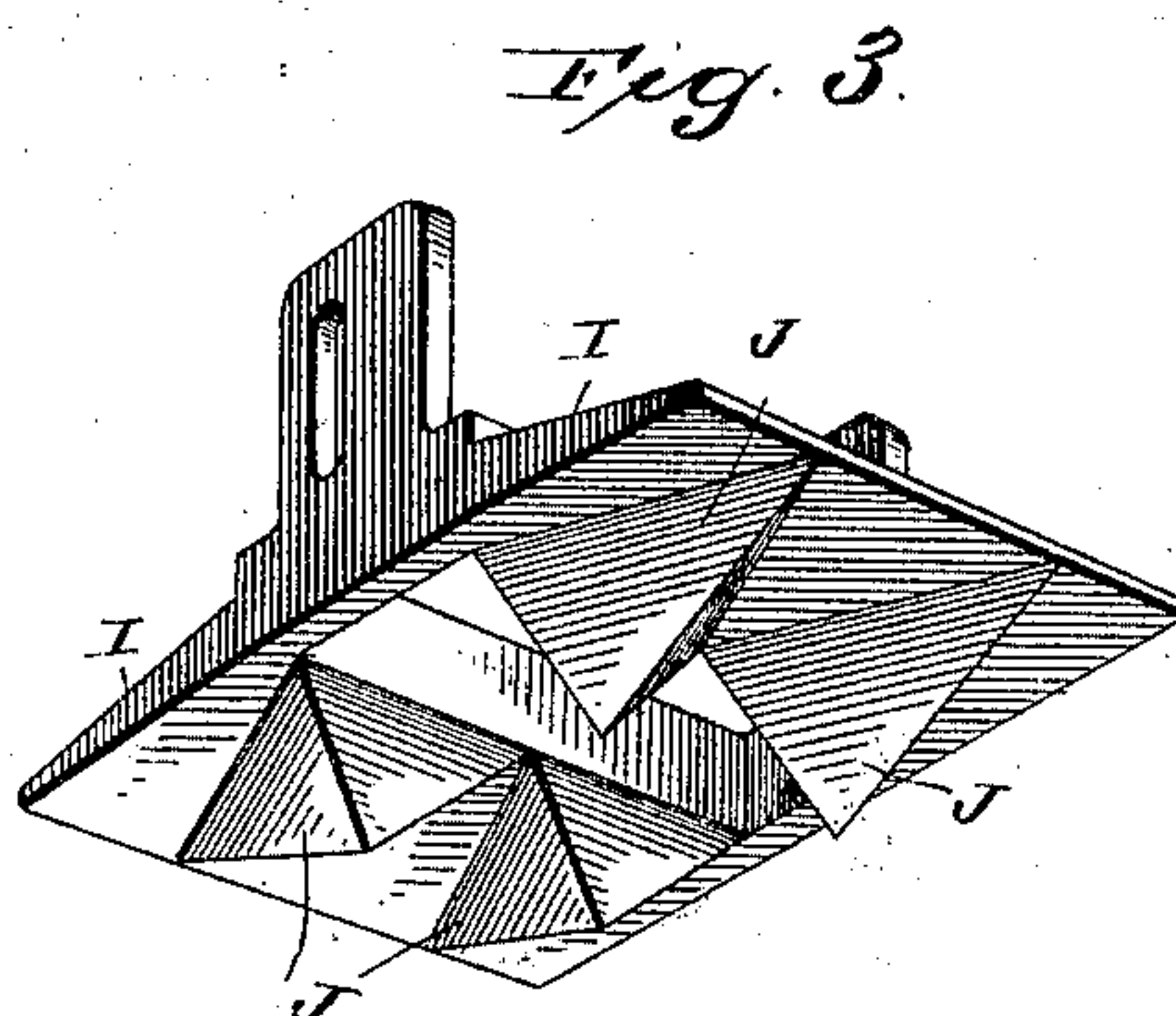
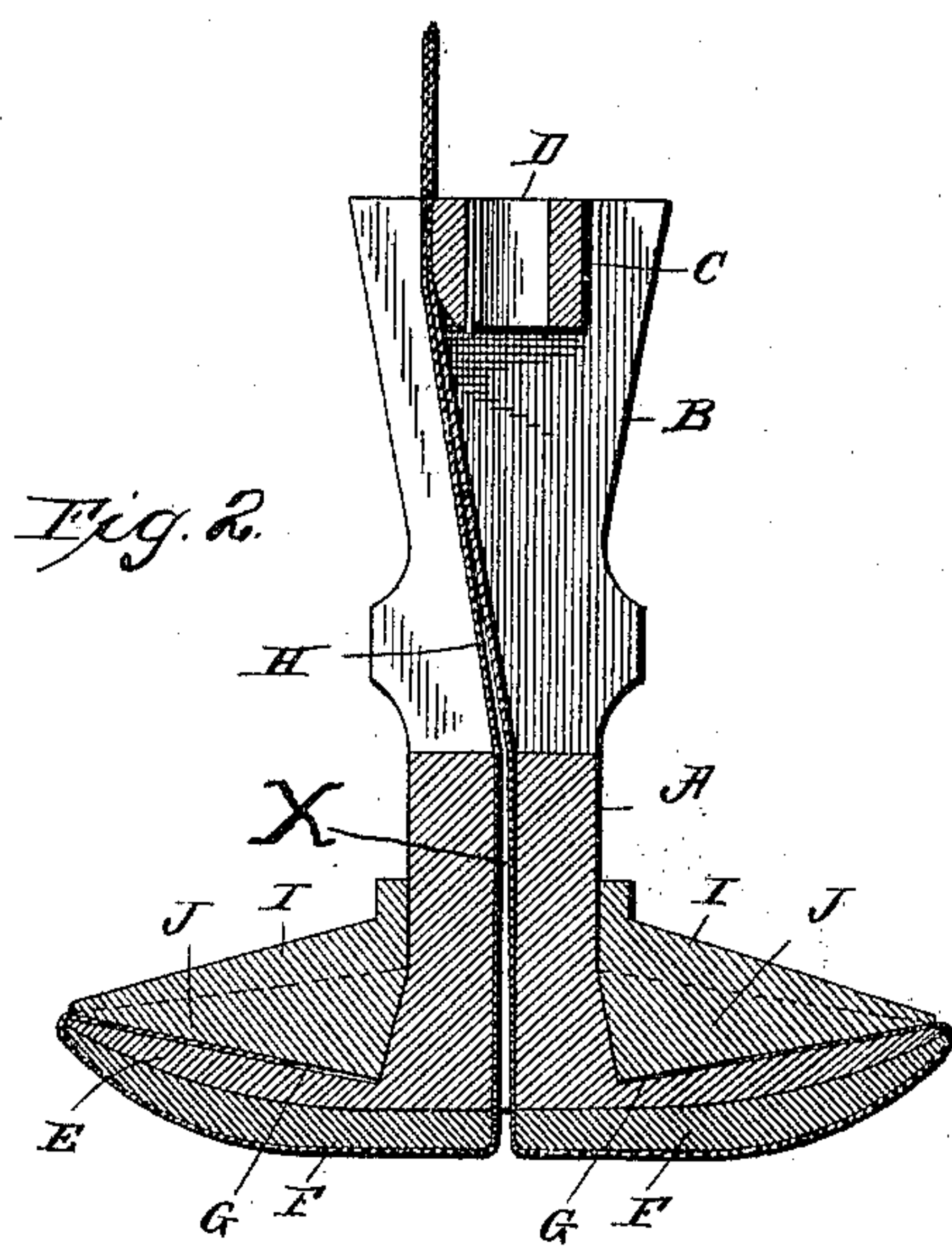
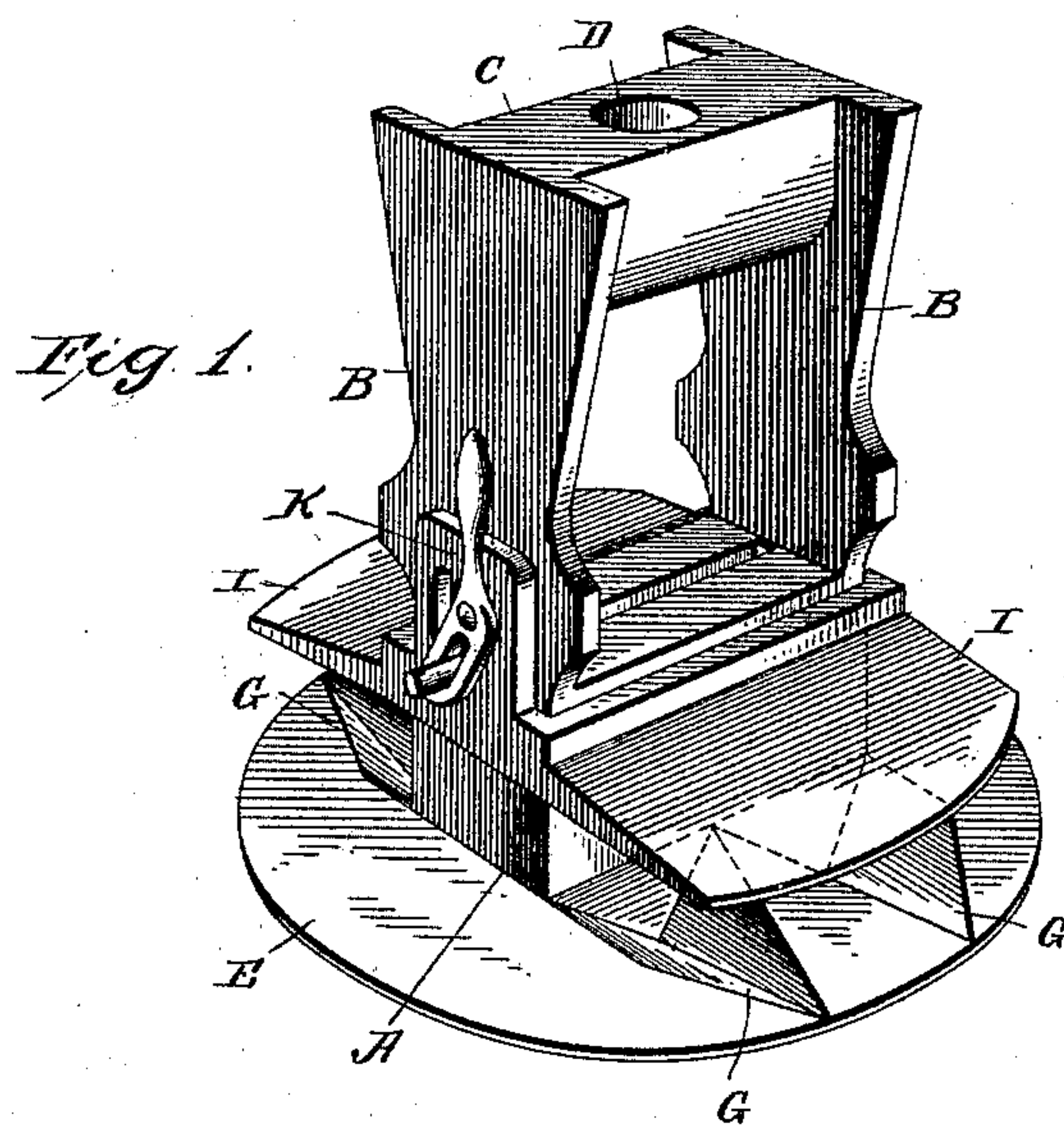
No. 610,758.

Patented Sept. 13, 1898.

T. E. KEAVY.
BUFFER FOR SHOE OR OTHER BUFFING MACHINES.

(Application filed Jan. 5, 1897.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS E. KEAVY, OF PHILADELPHIA, PENNSYLVANIA.

BUFFER FOR SHOE OR OTHER BUFFING MACHINES.

SPECIFICATION forming part of Letters Patent No. 610,758, dated September 13, 1898.

Application filed January 5, 1897. Serial No. 618,036. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. KEAVY, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Buffers for Shoe or other Buffing Machines, of which the following is a specification.

The present invention relates to a new and useful improvement in buffers for shoe and other buffing machines, the present application involving a part of the subject-matter shown and partially described, but not specifically claimed in an earlier patent issued to me March 2, 1897, No. 578,214, together with certain improvements thereon, as hereinafter described.

The present invention consists in the combination, with a chuck having a slot extending from the back to the face thereof, of two strips of abrasive material passing through said slot, with their abrasive faces turned toward each other and their free ends extending in opposite directions across the face of the chuck and conformed to the periphery thereof without slitting.

The present invention also consists of means whereby said strips of abrading material may be caused to conform to the periphery of the body or support without being longitudinally split, as specified in my said earlier application, and of other improvements in the form and arrangement of the several features of the devices, as hereinafter set forth and claimed.

A preferred form of the present invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a buffer or chuck, the strips of abrasive material having been removed therefrom. Fig. 2 is a central vertical section thereof, showing the strips of abrasive material in position; and Fig. 3 is a detail perspective of the clamp which holds the strips of abrading material in position.

Similar letters of reference indicate like parts in the several views.

In the drawings, A represents a chuck or frame which carries the body or support E and which conveniently comprises two up-rights B, forming side bars therefor and tied together at their upper ends by a bridge C, in

which is formed a spindle-hole D for securing the chuck or frame to a suitable spindle to rotate the same.

As shown, the body or support E consists of a disk carried by the lower end of the chuck or frame A, and which carries secured to or held against its lower face the cushioning-pad F, of felt or other suitable material, such as is used to cushion the abrading-surfaces in machines of this class. The body or support E is provided with an elongated aperture or slot X, preferably centrally located therein, extending from the back to the face thereof and registering with or forming a continuation of the slot X in the body of the chuck A, and the pad F is made in two pad-sections, one on each side of the aperture or slot X, the arrangement being such that the two strips of abrading material H may be drawn from the back of the body or support E through the aperture X and between the sections of the pad F and there separated and drawn in opposite directions across the face of the body or support E over the pad F and secured in position, as hereinafter described. It is important to note in this connection that the strips of abrading material in accordance with the present invention are so arranged with reference to each other that in passing through the aperture or slot X the abrading-surfaces are adjacent each other, so that when separated and drawn over the pad F, as above stated, the abrading-surface of each strip H is turned outward and in operative position, and that the ends are conformed to the chuck without slitting. After being led across the pad-sections F the strips H are bent over the peripheral edge of the disk E and the edge caused by said bend or fold made to substantially correspond to the periphery of the disk E, so that no projections thereon will be left to catch on the work and thus displace the strips, and the free ends of the strips are clamped above the disk E to hold the strips in position thereon.

While the above-suggested results may be secured by folding or crimping the strips H by hand and securing their free ends in position by any convenient or suitable form of clamp, I have illustrated in the drawings a form of clamping means which not only secures the free ends of the strips but crimps or folds the

strips so that they will conform along their bent edges to the periphery of the disk E, and which is described as follows:

I represents a clamp which is fitted upon the chuck, and the under surface of which is provided with lugs or projections J, that approximately correspond to the depressions or grooves G formed upon the upper surface of the disk E, the arrangement being such that when the clamp I is forced downward to force the projections J into the grooves G, after the overlapping ends of the strips H have been drawn over said grooves, said ends will be folded or crimped in such manner as to cause the folded edge of the strip formed by the bend to substantially conform to the periphery of the disk E. The clamp I may be locked in its lowered or clamping position by any suitable means—such, for example, as the levers K. The strips H of abrading material may be drawn from a roll or coil (not shown) carried by the spindle or chuck, as desired. I have not illustrated herein any means for clamping the abrading-strips H to hold them from slipping downward through the aperture X, as such means can be readily supplied, if required, by any mechanic of average skill.

Having thus described my invention, I desire to say that I do not consider the same as limited to the details of construction herein shown and described; but

I claim as novel and desire to secure by Letters Patent of the United States—

1. In a sandpapering and buffing machine the combination with a suitable body or support having an aperture extending from the back to the face thereof, of two strips of abrading material extending through said aperture and arranged therein with their abrading-surfaces adjacent to each other, substantially as described.

2. In a sandpapering and buffing machine the combination with a supporting-disk having an aperture in its supporting-face, of two strips of abrading material, passing through said aperture extending across the face of the disk in opposite directions and crimped to

substantially conform to the perimeter of the disk, substantially as described.

3. In a sandpapering and buffing machine, the combination with a supporting-disk, of strips of abrading material extending across the face of said disk and means for crimping the ends of said material so as to conform to the periphery of said disk, substantially as described.

4. In a sandpapering or buffing machine, the combination with a disk or chuck, of a clamp arranged to clamp the ends of the abrading material, said clamp constructed and arranged to cause the folded edge of the abrading material to conform to the periphery of the disk, substantially as described.

5. In a sandpapering or buffing machine, the combination with a disk or chuck, of a clamp having means to force it into contact with the rear face of said disk, and cooperating elevations and depressions on said clamp and disk arranged to conform the abrading material to the periphery of the disk, substantially as described.

6. In a sandpapering or buffing machine, the combination with a disk or chuck, of a clamp arranged to have a sliding movement toward and from said disk, said disk having depressions and the clamp corresponding elevations arranged to engage the abrading material and conform the same to the periphery of the disk or chuck, substantially as described.

7. In a sandpapering or buffing machine the combination with a disk or chuck of a clamp arranged to clamp the abrading material on said disk or chuck said clamp having tapering elevations and depressions to engage the abrading material and crimp the same, substantially as described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

THOMAS E. KEAVY.

Witnesses:

E. C. WURDEMAN,
MARK BUFORD.