

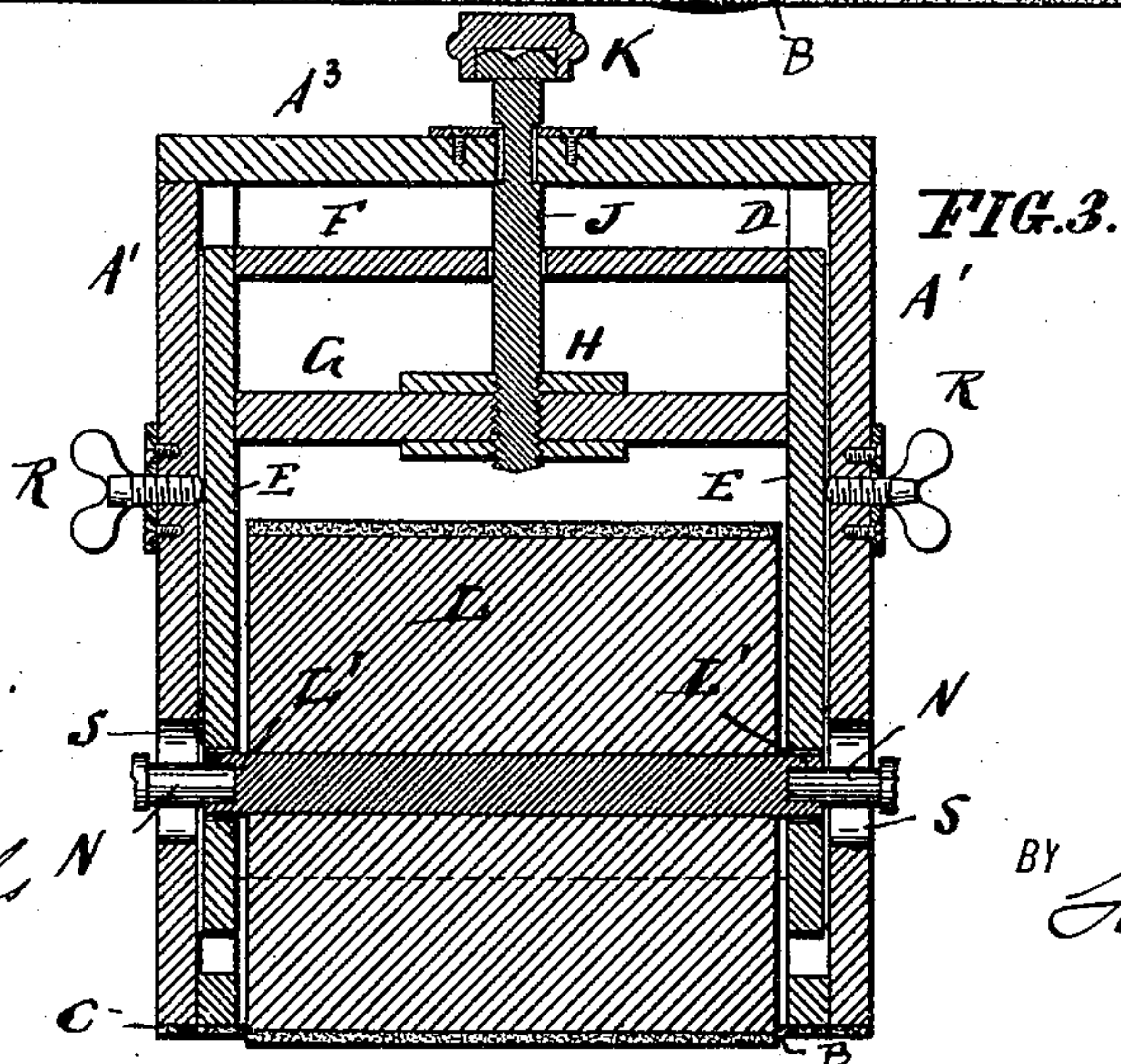
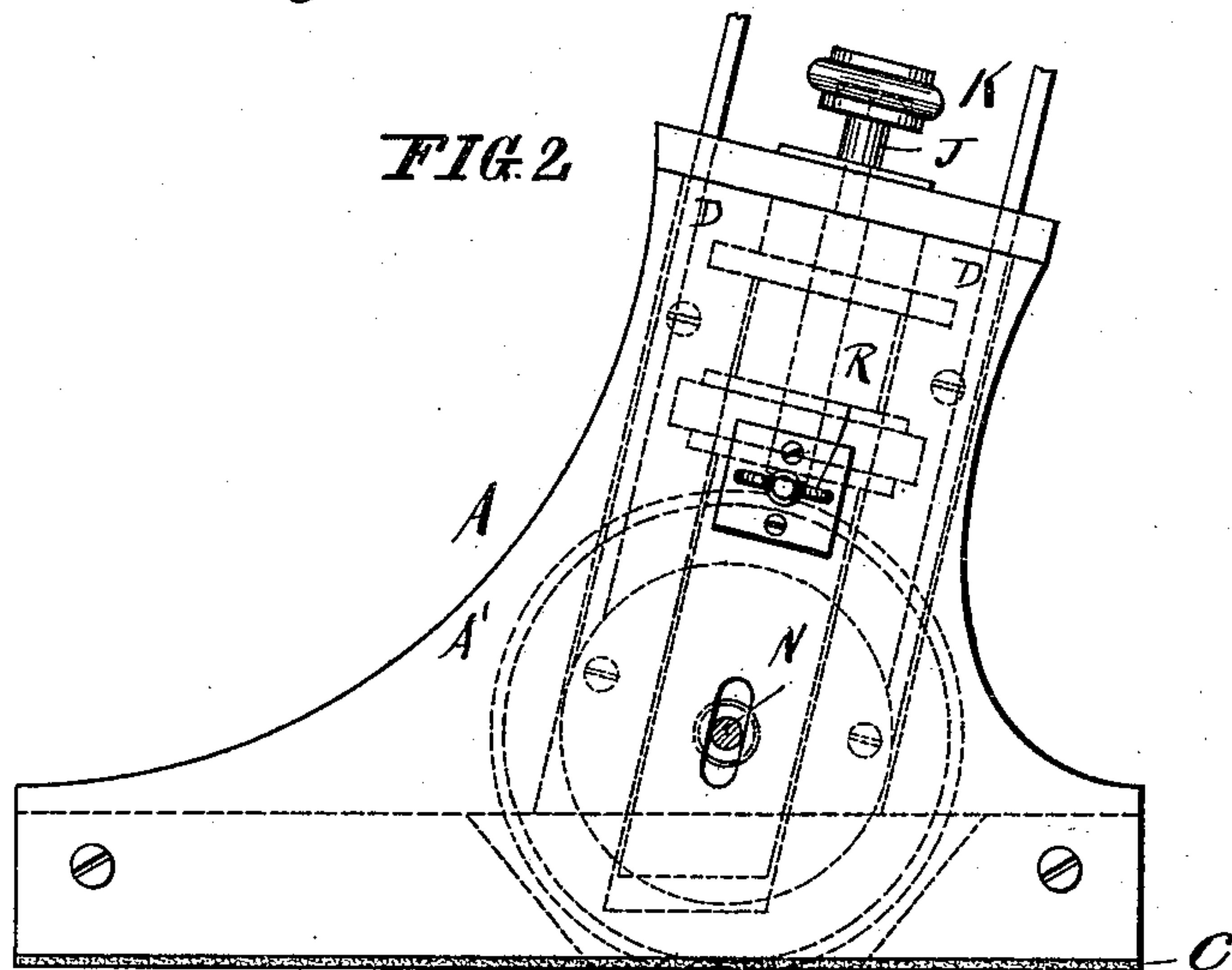
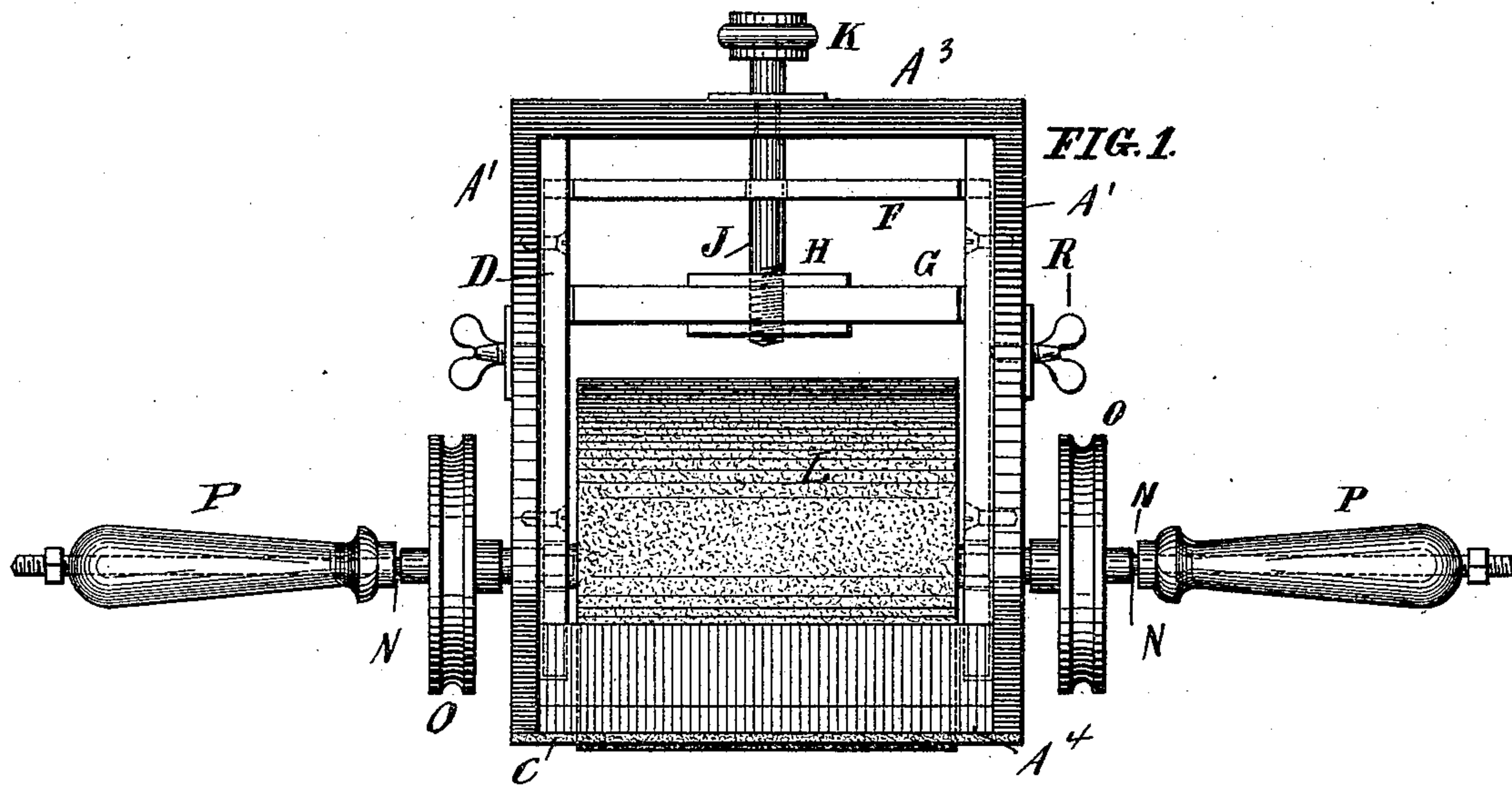
(No Model.)

H. C. STROBEL.

ATTACHMENT FOR RUBBING, POLISHING, AND SANDPAPERING MACHINES.

No. 467,208.

Patented Jan. 19, 1892.



WITNESSES:

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ATTACHMENT FOR RUBBING, POLISHING, AND SANDPAPERING MACHINES.

SPECIFICATION forming part of Letters Patent No. 467,208, dated January 19, 1892.

Application filed June 18, 1891. Serial No. 396,672. (No model.)

To all whom it may concern:

Be it known that I, HERMAN C. STROBEL, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in an Attachment for Rubbing, Polishing, and Sandpapering Machines, of which the following is a specification.

This invention relates to an improved attachment for that class of machines that is used for rubbing and polishing wood, stone, metal, and other plates, and that is provided with a roller adapted to be rotated by machinery and shifted and moved by hand over the plate to be polished.

The object of my invention is to provide a new and improved attachment for such machines, which attachment is so constructed as to properly guide the roller and prevent its cutting into the surface to be polished.

The invention consists in the combination, with a box-shaped frame, of slides in the same, means for adjusting the slides, a rubbing and polishing roller mounted in the slides, belt-pulleys fixed on the spindle of said roller, handles mounted loosely on the ends of said spindle, and a flat slotted bottom plate on said frame, through which bottom plate the roller can be projected a greater or less distance.

The invention also consists in the construction and combination of parts and details, which will be fully described hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a front view of my improved attachment for rubbing and polishing machines. Fig. 2 is a side view of the same, and Fig. 3 is a vertical transverse sectional view of the same.

Similar letters of reference indicate corresponding parts.

The frame A is formed of the two side pieces A', shaped as shown in Fig. 2, the top cross-piece A³, and the bottom plate A⁴. The bottom plate is provided with the slot B, having inclined sides. To the under side of the bottom plate A⁴ a piece C, of felt or cloth, is secured, which also has an opening corresponding to the slot B in the bottom plate. Between suitable guides D, fixed to the inner surfaces of the side pieces A', the slides E are mounted and are united by the cross-pieces F and G,

in the latter of which a screw-nut H is fixed. A screw-spindle J is passed through the top cross-piece A³ in such a manner that it can turn on its longitudinal axis, but cannot move lengthwise, said spindle being provided at its upper end with a suitable handle K. The lower threaded end of the spindle J is screwed into the nut H, so that by turning the spindle in one direction or the other the cross-pieces F and G, and with them the slides E, will be raised or lowered. A roller L has a covering of felt, cloth, or sand-paper, and is provided with tubular end pivots L', which are mounted to turn in the slides E, so that by raising or lowering the slides E said roller will also be raised or lowered and can thus be adjusted to project a greater or less distance through the slot B, and so that the said roller also will project a greater or less distance from the flat bottom of the entire device. The tubular pivots L' are adapted to receive the ends of rods N, forming the roller-spindle on which grooved pulleys O are fixed and handles P are mounted loosely, so that when said pulleys O are rotated by means of belts passed from a suitable driving-shaft over them they will also rotate the roller L. Said handles P are held by the operator and used by him to shift the entire apparatus over the plate to be polished, either in the direction of the length of the apparatus or transversely to the same. Thumb-screws R in the side pieces A' serve for holding the slide E and roller L in the desired position after the same have been adjusted by means of the screw-spindle J. The rods N are passed through longitudinal slots S in the side pieces A', so as to permit of adjusting the roller L higher or lower.

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

1. In a rubbing and polishing attachment, the combination, with a box-shaped frame having a flat under side, of vertically-adjustable slides in the same, a screw-spindle for moving said slides up or down, a roller mounted to turn in said slides, belt-pulleys fixed on the spindle of said roller outside of the box-shaped frame, and loose handles mounted on the ends of the spindle, substantially as set forth.

2. In a rubbing and polishing attachment,

the combination, with a box-shaped frame having a flat under side, of vertically-sliding guides in the same, cross-bars uniting said slides, a screw-spindle mounted to turn in the top of the box-shaped frame and engaging a nut fixed in one of the cross-bars of the slides, a rubbing and polishing roller mounted in said slides, the spindle of said roller passing through longitudinal slots in the sides of the box-shaped frame, belt-pulleys mounted on the spindle of the roller outside of the box-shaped frame, and loose handles mounted on the ends of the spindle, substantially as set forth.

3. In a rubbing and polishing attachment, the combination, with a box-shaped frame, of vertically-sliding guides in the same, cross-bars uniting said slides, a spindle mounted to turn in the top of the frame and engaging

a nut in one of the cross-bars of the slides, a rubbing and polishing roller mounted in said slides, pulleys fixed on the said spindle outside of the frame, loose handles mounted on the ends of the spindle, and thumb-screws connected with the slides and passed through slots in the sides of the frame, and a slotted flat bottom for the frame, through the slot of which bottom the roller can be projected a greater or less distance, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HERMAN C. STROBEL.

Witnesses:

OSCAR F. GUNZ,
A. M. BAKER.