

No. 672,907.

Patented Apr. 30, 1901.

W. H. KLINGENSMITH.
PLATE GLASS POLISHING MACHINE.

(Application filed July 7, 1900.)

(No Model.)

Fig. 1.

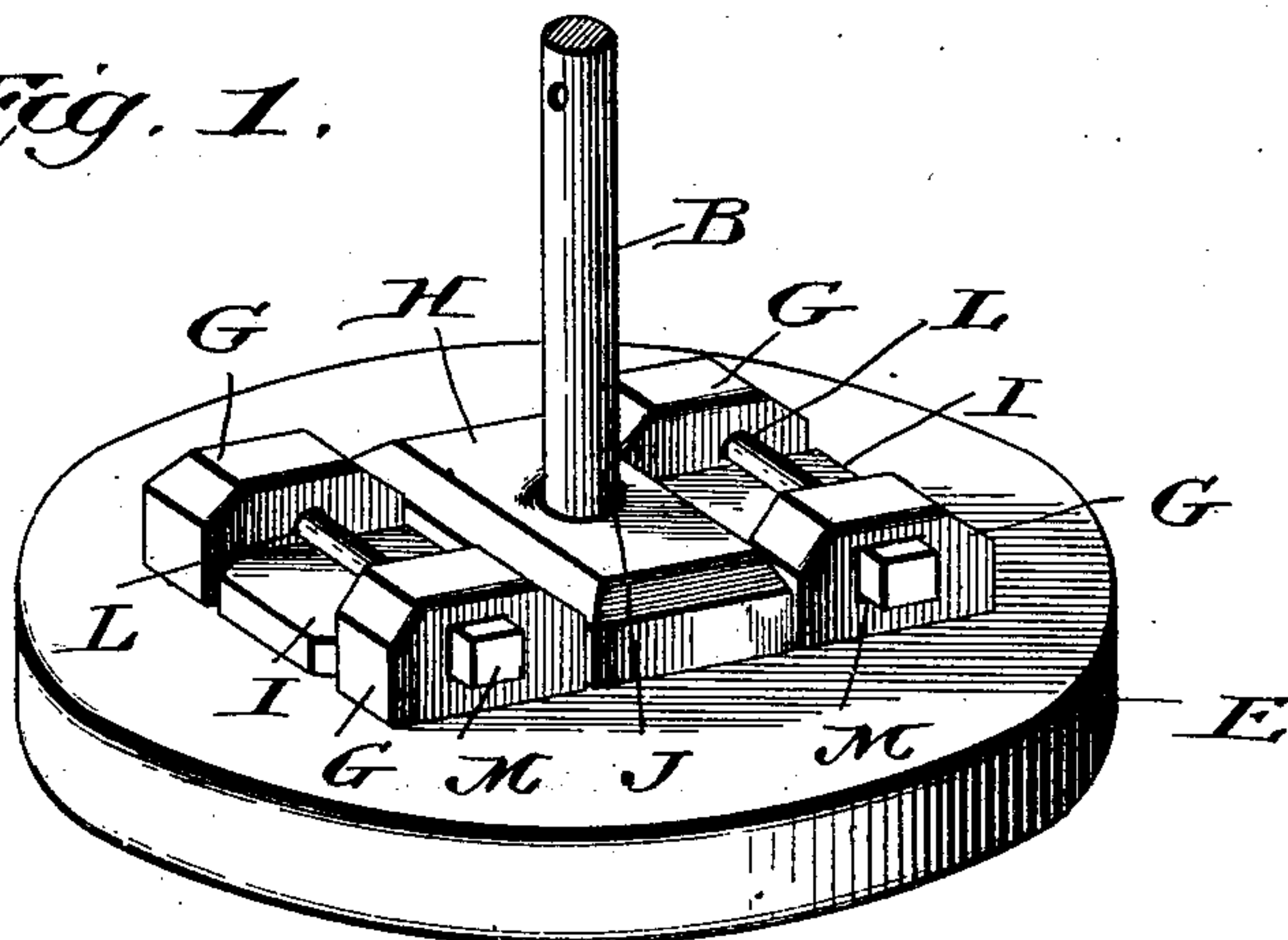


Fig. 2.

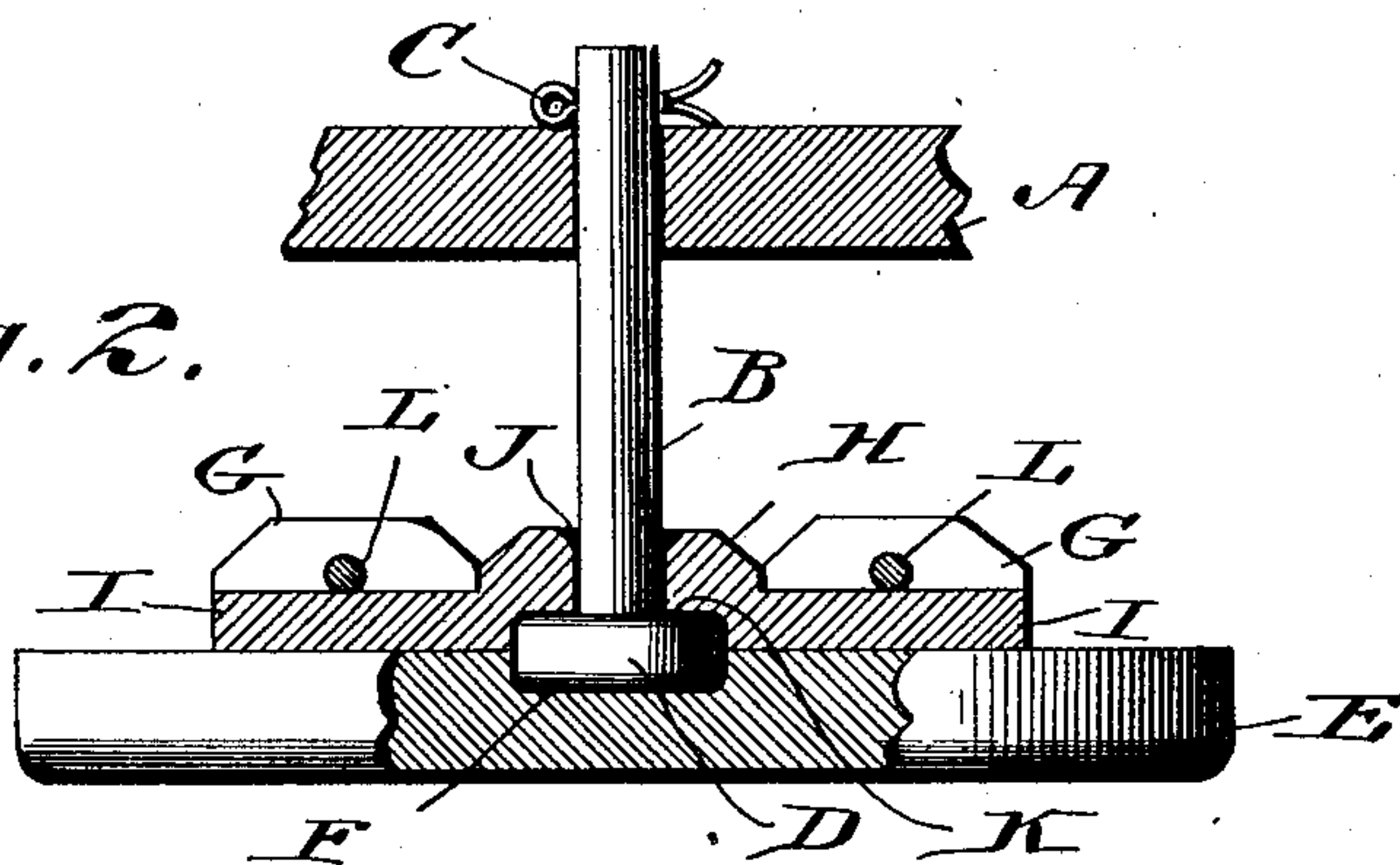
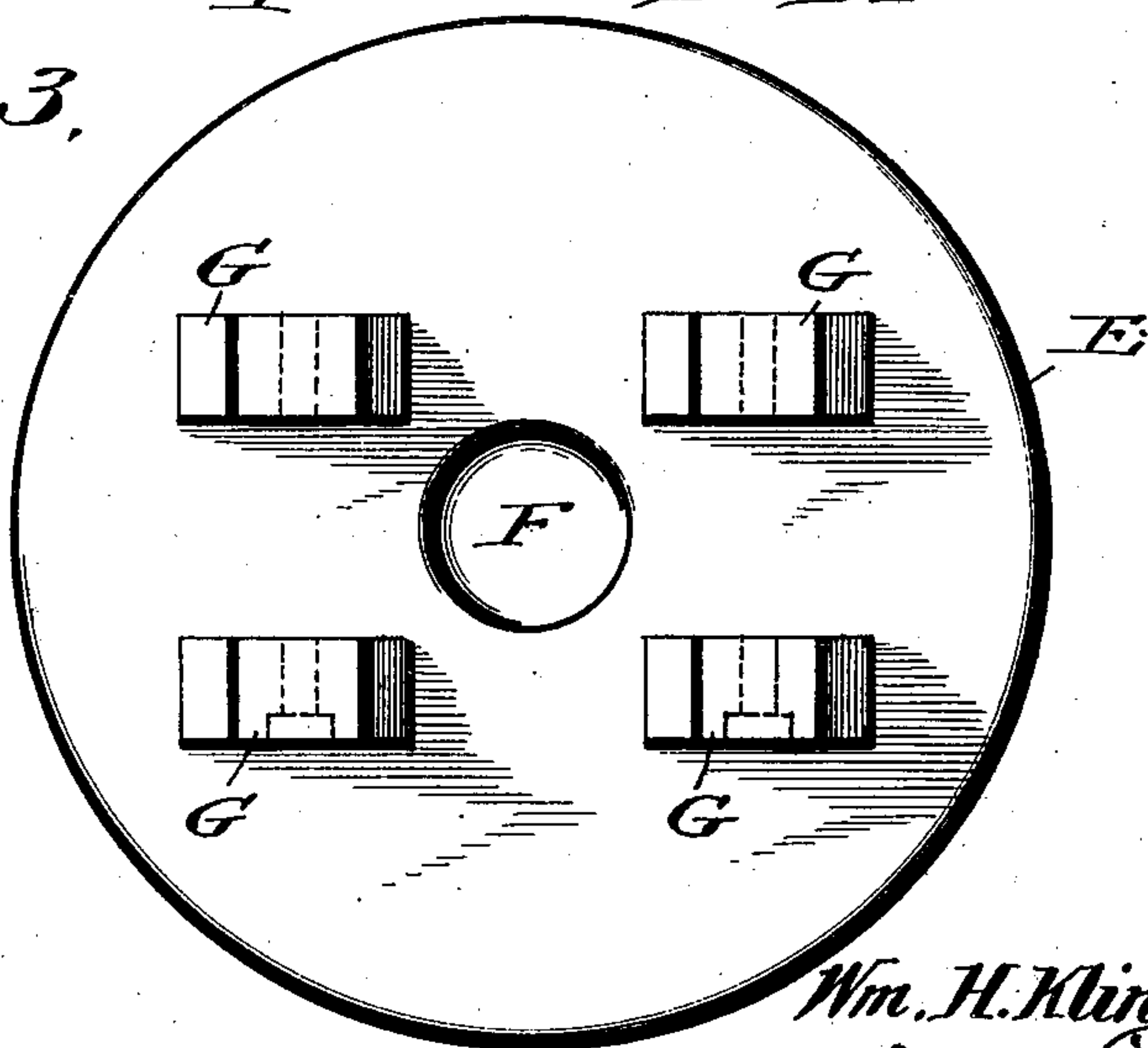


Fig. 3.



Inventor :

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UNITED STATES PATENT OFFICE.

WILLIAM H. KLINGENSMITH, OF VANDERGRIFT, PENNSYLVANIA, ASSIGNOR
OF ONE-THIRD TO HENRY J. GERNER, OF SAME PLACE.

PLATE-GLASS-POLISHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 672,907, dated April 30, 1901.

Application filed July 7, 1900. Serial No. 22,848. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KLINGENSMITH, a citizen of the United States, residing at Vandergrift, in the county of Westmoreland and State of Pennsylvania, have invented a new and useful Plate-Glass-Polishing Machine, of which the following is a specification.

This invention relates generally to plate-glass-polishing machines, and particularly to means for connecting the polishing-disks with their support; and the object is to provide an effective construction for attaching the disks to the pins which connect them to their support, whereby the accidental displacement of said disks while the machinery is in operation will be prevented, but at the same time the disks permitted to be readily detached from the supporting-pins when necessary.

The invention consists in the details of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of a disk and supporting-pin, showing the manner of connecting the same. Fig. 2 is a vertical sectional view of the same, a portion of the support being shown. Fig. 3 is a plan view of the disks with the attaching plate and pin removed.

In polishing-machines of the usual construction the glass is placed upon a revolving table beneath the polishing-disks, to which are attached pins or stems, the latter being connected with a support known as a "runner." I have shown only a polishing-disk, a pin or stem, and a portion of the runner or support to which the pin is connected.

Referring more particularly to the drawings, A designates a portion of the runner or support, perforated to receive the pin B, which extends therethrough and is retained in position therein by a split pin C passing through the upper end of the pin. The lower end of the pin is formed with a head D.

E designates a polishing block or disk formed with a central depression F, consti-

tuting the lower portion of a socket to receive the head of the pin. Pairs of lugs G are formed on said disk on opposite sides of the depression F, said lugs being so arranged as to form a way, having lateral branches extending on opposite sides thereof.

The attaching-plate is formed with a body portion H, fitting in said way and having the wings I extending in the lateral branches of said way. The body portion H of the attaching-plate is formed with a perforation J to receive stem B and on its under side with a depression K, forming the upper portion of the socket for the head of said pin. When the attaching-plate is in position, it will be seen that the disk is loosely connected with said pin. Said plate is secured in position upon the disk by bolts L, which extend through perforations formed in lugs and confine the wings I of said plate therebeneath, said bolts having square heads M, fitting in square openings formed in one of the lugs of each pair.

From the above description it will be seen that the disks are securely attached to said pins in such manner that they may revolve freely thereon, but cannot become accidentally detached therefrom.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a polishing-machine, the combination with a supporting stem or pin having a head, of a polishing-disk formed with a socket portion, an attaching-plate perforated to receive said stem and formed with a socket portion, and means for securing said plate to said disk, retaining the head of the stem in the socket thus formed, substantially as described.

2. In a polishing-machine, the combination with a supporting pin or stem, of a polishing-disk provided with a way having lateral branches, of an attaching-plate connecting said pin with the disk and fitting in said way and formed with wings taking the lateral branches of said way, and means for securing said plate to the said disk, substantially as described.

3. In a polishing-machine, the combination with a supporting stem or pin, of a polishing-disk formed with pairs of lugs, an attaching-plate connecting said pin with said disk and
5 formed with a body portion extending between the pairs of lugs, and with lateral wings extending between the lugs of each pair, and

securing-bolts connecting the lugs of each pair and confining the lateral wings of the plate therebeneath, substantially as described.

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Witnesses:

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