

No. 672,699.

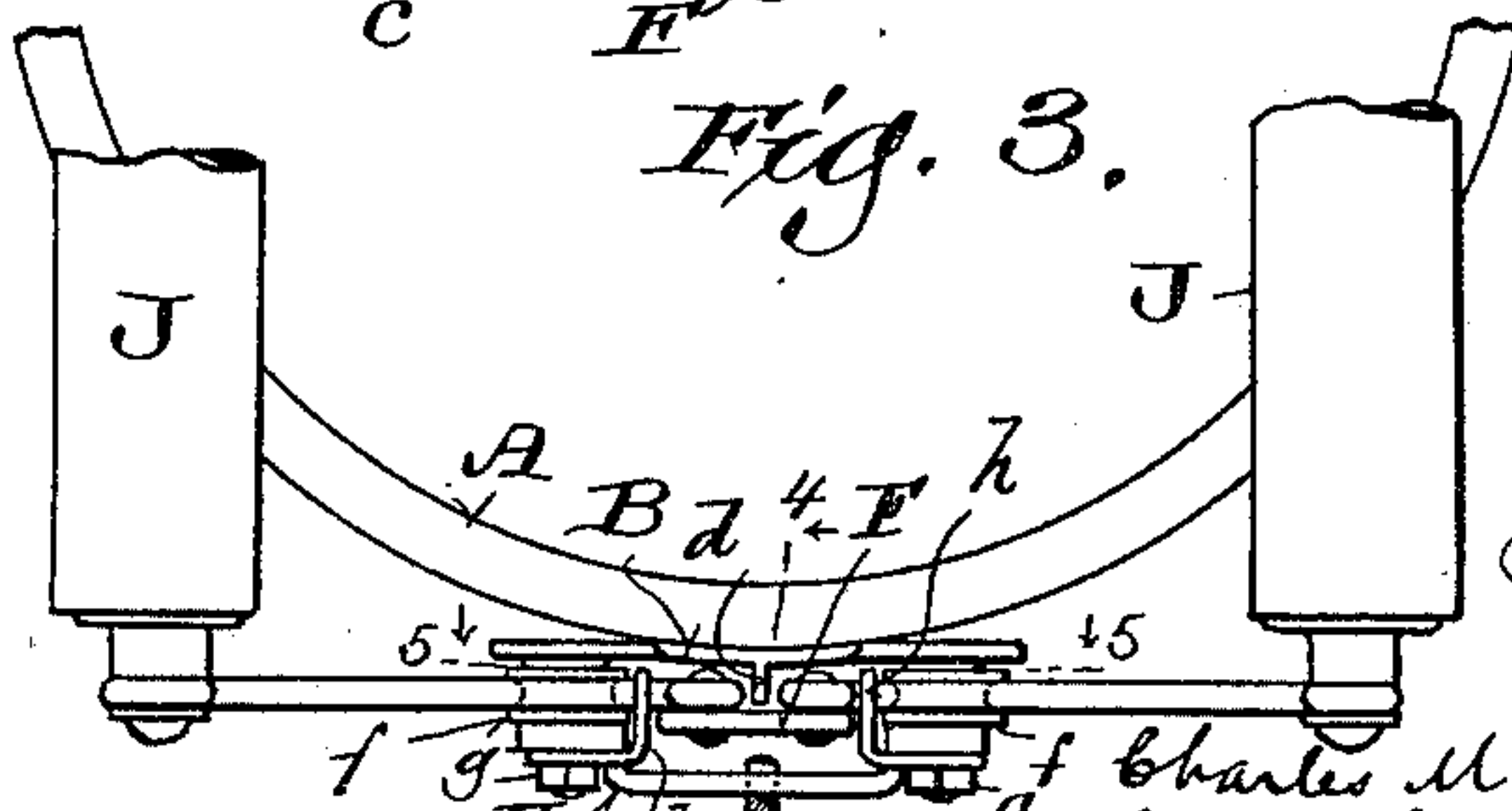
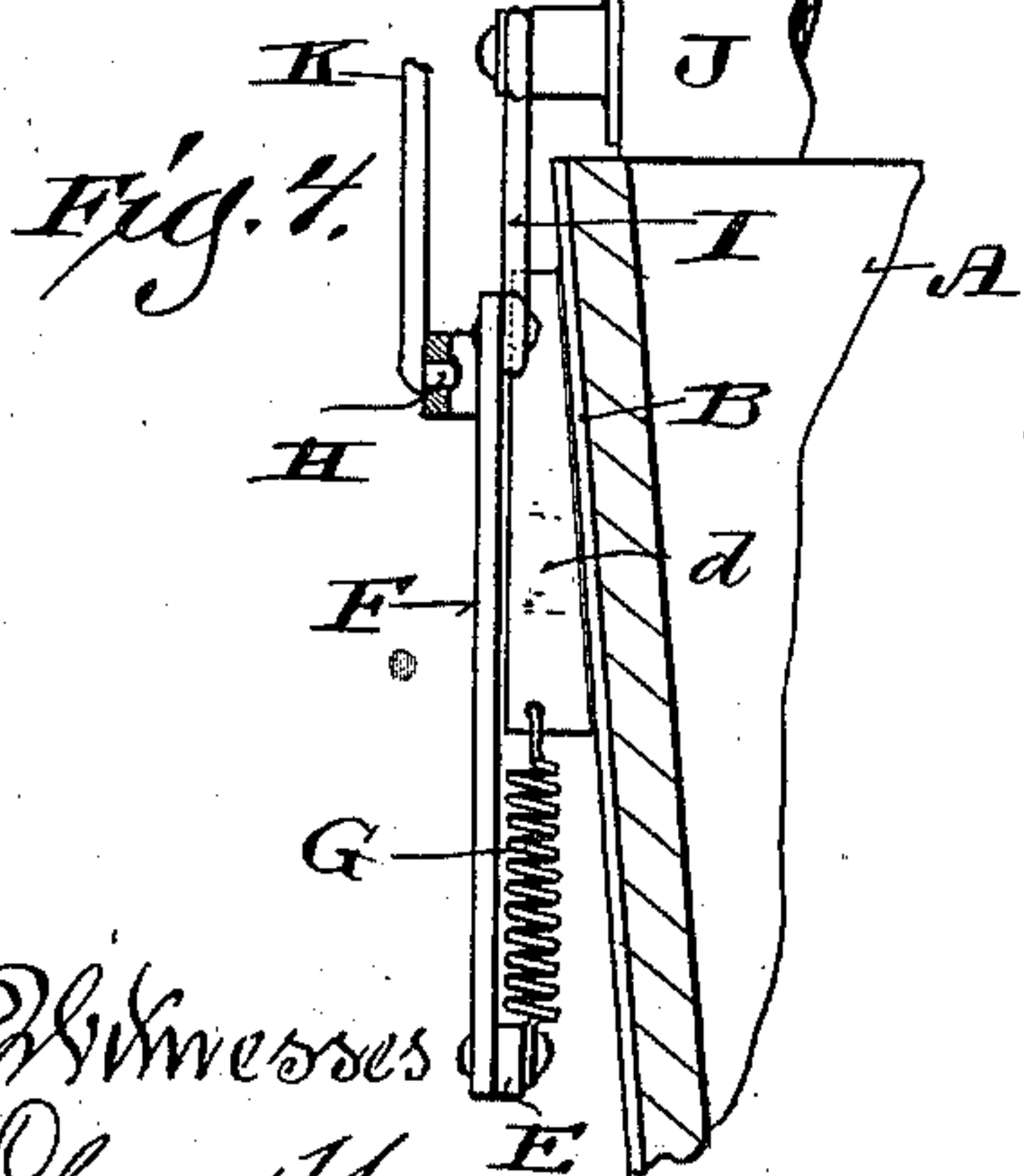
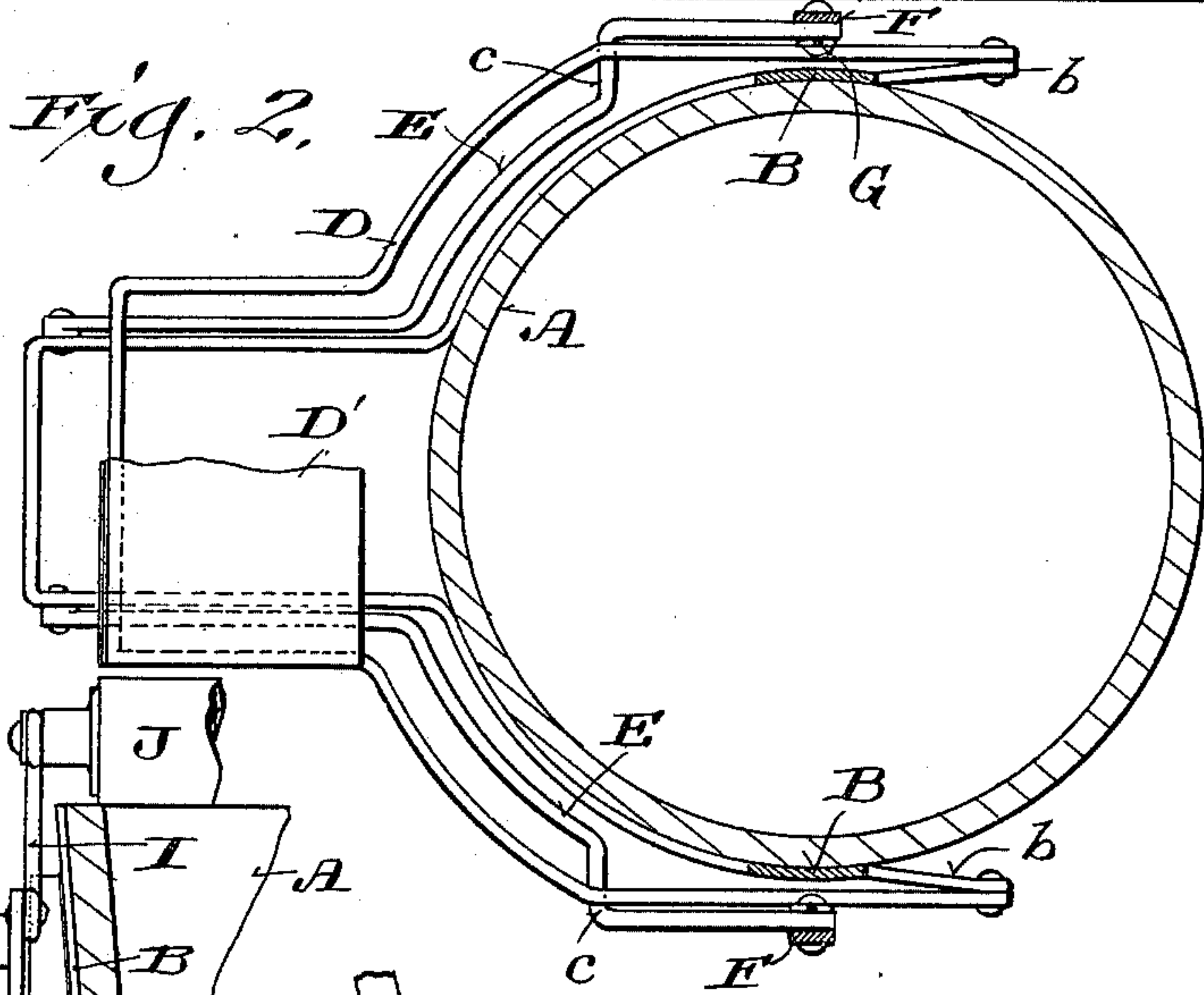
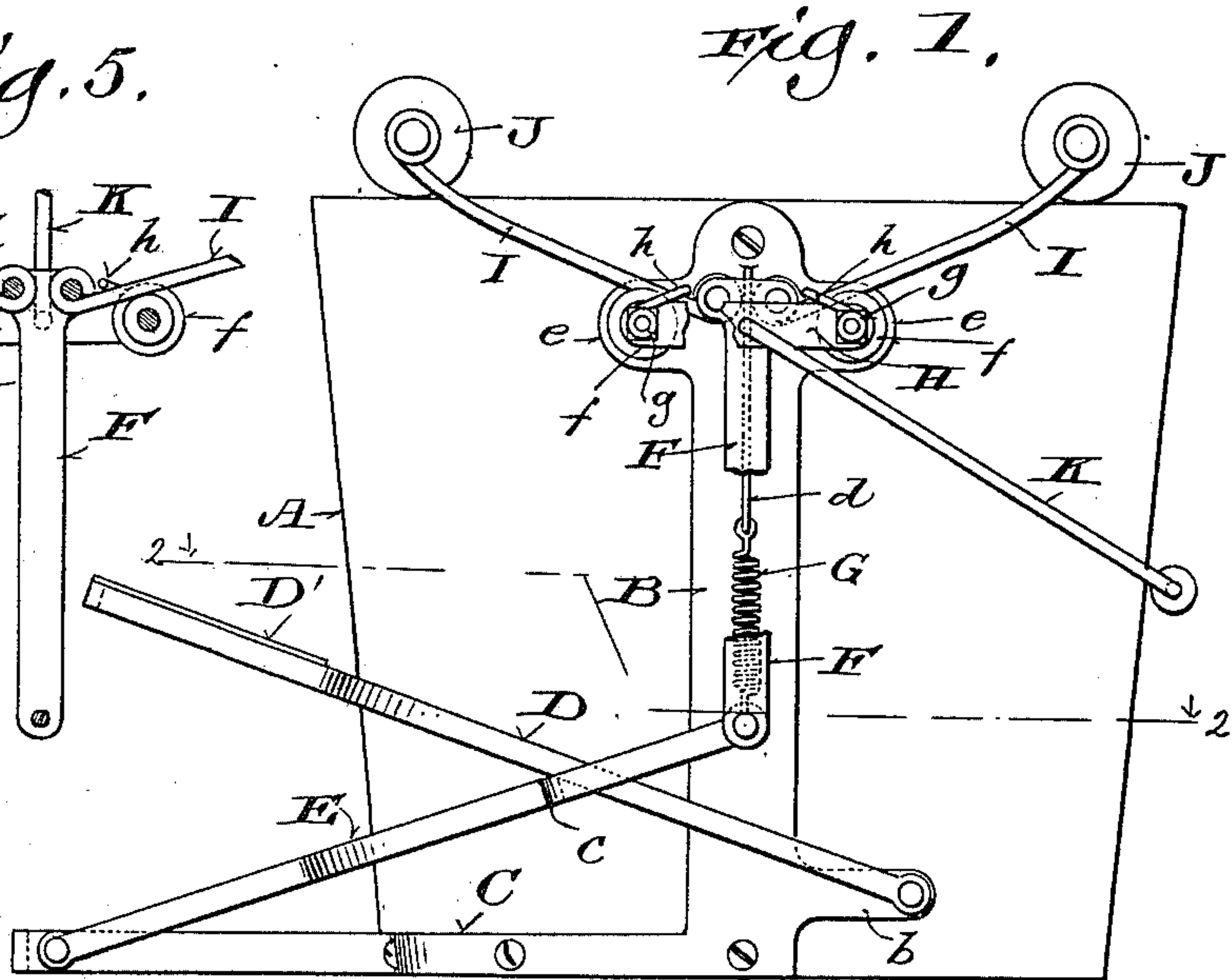
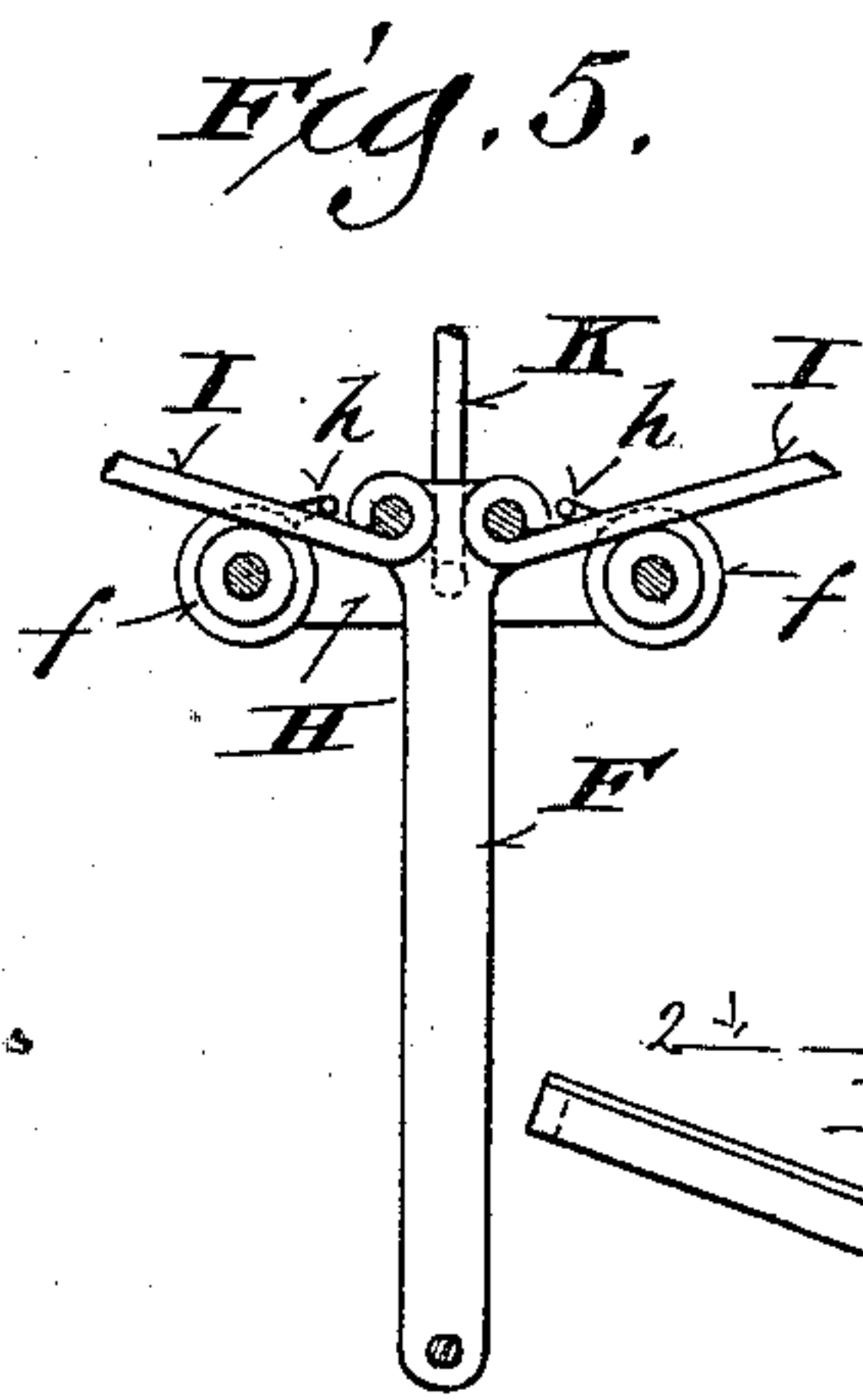
Patented Apr. 23, 1901.

C. M. CODY & A. J. HOUWERS.

MOP WRINGER.

(Application filed Oct. 22, 1900.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLES M. CODY AND AREND J. HOUWERS, OF SHEBOYGAN FALLS,  
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## MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 672,699, dated April 23, 1901.

Application filed October 22, 1900. Serial No. 33,853. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLES M. CODY and AREND J. HOUWERS, citizens of the United States, and residents of Sheboygan Falls, in the county of Sheboygan and State of Wisconsin, have invented certain new and useful Improvements in Mop-Wringers; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention has for its object to provide simple, economical, and efficient mop-wringers in connection with water-pails; and it consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a side elevation of a water-pail provided with a mop-wringer in accordance with our invention; Fig. 2, a plan view of the same, partly broken away and in section, this view being indicated by line 2 2 in the first figure; Fig. 3, a detail top plan view, the bail of the pail shown in this figure being in cross-section; Fig. 4, a detail vertical section view indicated by line 4 4 in the third figure; and Fig. 5 a detail elevation, partly in section, on the plane indicated by line 5 5 in said third figure.

Referring by letters to the drawings, A indicates a water-pail, to the outside of which are fastened diametrically opposite vertical iron or steel plates B, that may be made in one piece with a forked bracket C or otherwise, this bracket being also fastened to said pail at the lower end of same. In pivotal connection with lower ears *b* of plates B are the ends of a strap-iron yoke D, having an angular frame-like outer portion covered by a plate D', this yoke and plate constituting a treadle supported on bends *c* of levers E, having their outer ends in pivotal connection with an angular frame-like portion of the aforesaid bracket. The inner ends of the levers are in pivotal union with the lower ends of link-plates F, and connected to the pivots joining said levers and links are the lower extremities of spiral springs G, the upper ends of which are coupled to fins *d*, that extend at right angles from plates B central of the same.

Mounted on studs extending outward from

opposite ears *e* of each plate B are grooved antifriction-rollers *f*, and held on the studs between terminals of a stay-plate H and nuts *g* we show bent-wire guards *h* in opposition to said rollers.

In pivotal connection with the upper end of each link-plate F are a pair of spring-arms I, that extend in opposite directions, each arm being guided between one of the antifriction-rollers *f* and guards *h* aforesaid. Journaled in the outer ends of the arms I are a pair of wringer-rolls J, and the bail K of the pail is shown as having its ends engaged with apertures in the stay-plates H above specified.

When not in use, the wringer-rolls are at rest upon the upper edge of pail A, the treadle-yoke C and levers E being held up by the springs G, as shown in Fig. 1. By depressing the treadle-yoke C the levers E are swung down against resistance of springs G to pull the link-plates F in connection with said levers. When this operation takes place, the pull of the link-plates on spring-arms I cause the latter to swing upward and move down between the antifriction-rollers *f* and guards *h*, thereby causing the wringer-rolls to approach each other and exert pressure on a mop caught between the same, said mop being wrung out as it is drawn upward between said rolls, the fins *d* of plates A being arranged between the inner ends of said arms to facilitate proper guiding of the same.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A mop-wringer comprising vertical diametrically opposite plates attachable to a pail, a forked bracket also attachable to the pail and having an angular portion extending therefrom, spring-controlled levers having their outer ends in pivotal connection with said angular portion of the bracket, a treadle-yoke in pivotal connection with said vertical plates and supported on bends of the levers, pivotal spring-arms in link connection with said levers, wringer-rolls having journal connection with the spring-arms and means for guiding said arms.

2. A mop-wringer comprising vertical diametrically opposite plates attachable to a pail, a forked bracket also attachable to the pail and



having an angular portion extending there-  
 from, fins extending at right angles from the  
 upper portions of said plates central of same,  
 levers having their outer ends in pivotal con-  
 5 nection with said angular portion of the  
 bracket, a treadle-yoke in pivotal connection  
 with the aforesaid plates and supported on  
 bends of the levers, spring-arms in link con-  
 10 nection with said levers to be guided by said  
 fins, spiral springs suspended from the fins  
 and arranged in connection with said levers,  
 wringer-rolls having journal connection with  
 the spring-arms, and means supplementary to  
 the aforesaid fins for guiding said arms:  
 15 3. A mop-wringer comprising vertical dia-  
 metrically opposite plates attachable to a pail,  
 a forked bracket also attachable to the pail and  
 having an angular portion extending there-  
 from, antifriction-rollers on studs extending  
 20 laterally from the plates, guards in opposition  
 to the rollers, fins extending at right angles  
 from the upper portions of said plates central  
 of the same, levers having their outer ends in  
 pivotal connection with said angular portion  
 25 of the bracket, a treadle-yoke in pivotal con-  
 nection with the vertical plates and supported  
 on bends of the levers, spring-arms having  
 link connection with said levers and sepa-  
 rately arranged between a roller and guard

to be guided by a plate-fin, spiral springs sus- 30  
 pended from the fins and arranged in con-  
 nection with said levers, and wringer-rolls  
 having journal connection with said spring-  
 arms.

4. A mop-wringer comprising vertical dia- 35  
 metrically opposite plates attachable to a pail,  
 a forked bracket also attachable to the pail and  
 having an angular forward portion extending  
 therefrom, spring-controlled levers having  
 their outer ends in pivotal connection with 40  
 said angular portion of the bracket, a treadle-  
 yoke in pivotal connection with said vertical  
 plates and supported on bends of the levers,  
 pivotal spring-arms in link connection with  
 said levers, wringer-rolls having journal con- 45  
 nection with the spring-arms, means for guid-  
 ing said arms, and stay-plates with which the  
 bail of said pail is attachable.

In testimony that we claim the foregoing  
 we have hereunto set our hands, at Sheboygan 50  
 Falls, in the county of Sheboygan and State  
 of Wisconsin, in the presence of two witnesses.

CHARLES M. CODY.  
 AREND J. HOUWERS.

Witnesses:

A. E. SCHLICHTING,  
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