

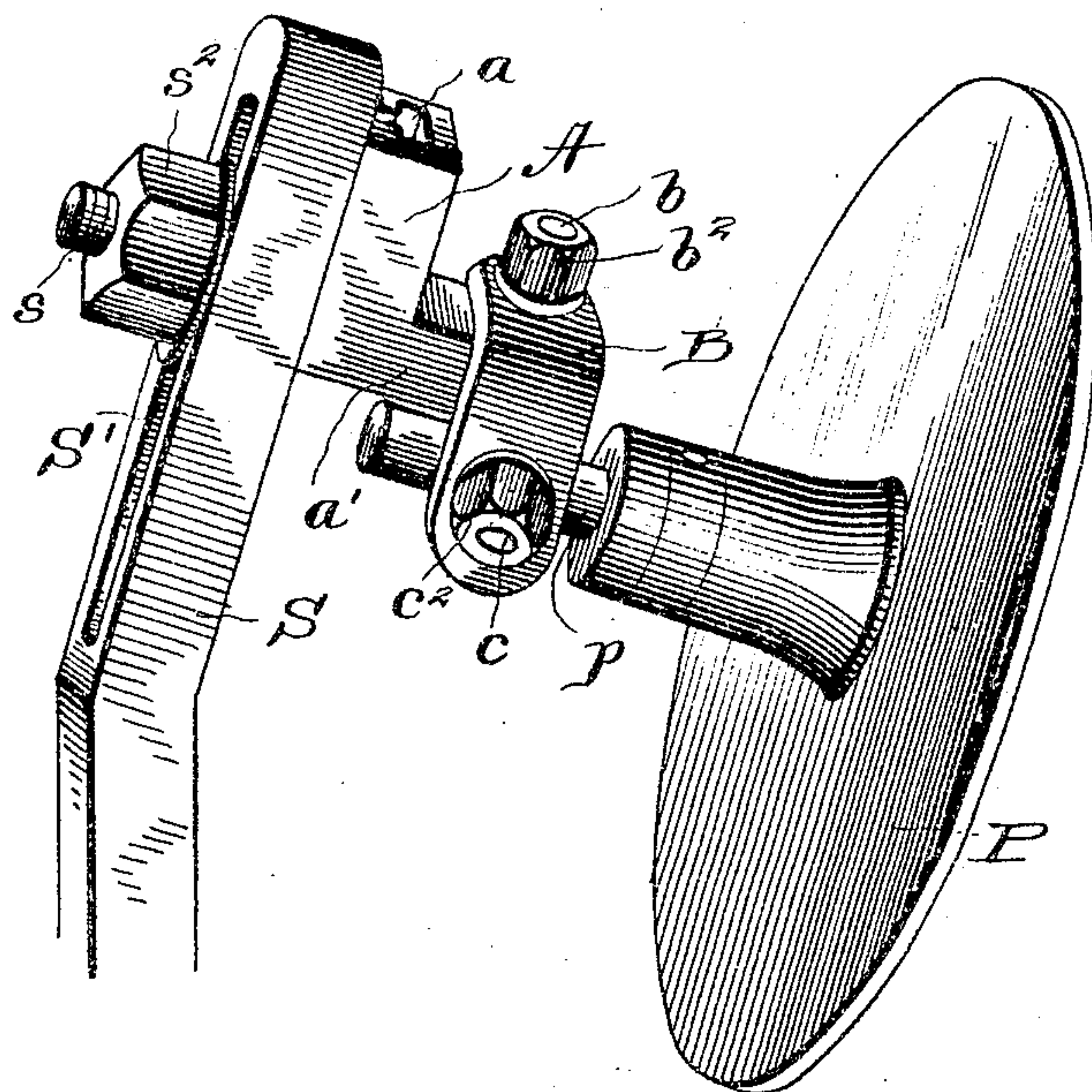
No. 774,406.

PATENTED NOV. 8, 1904.

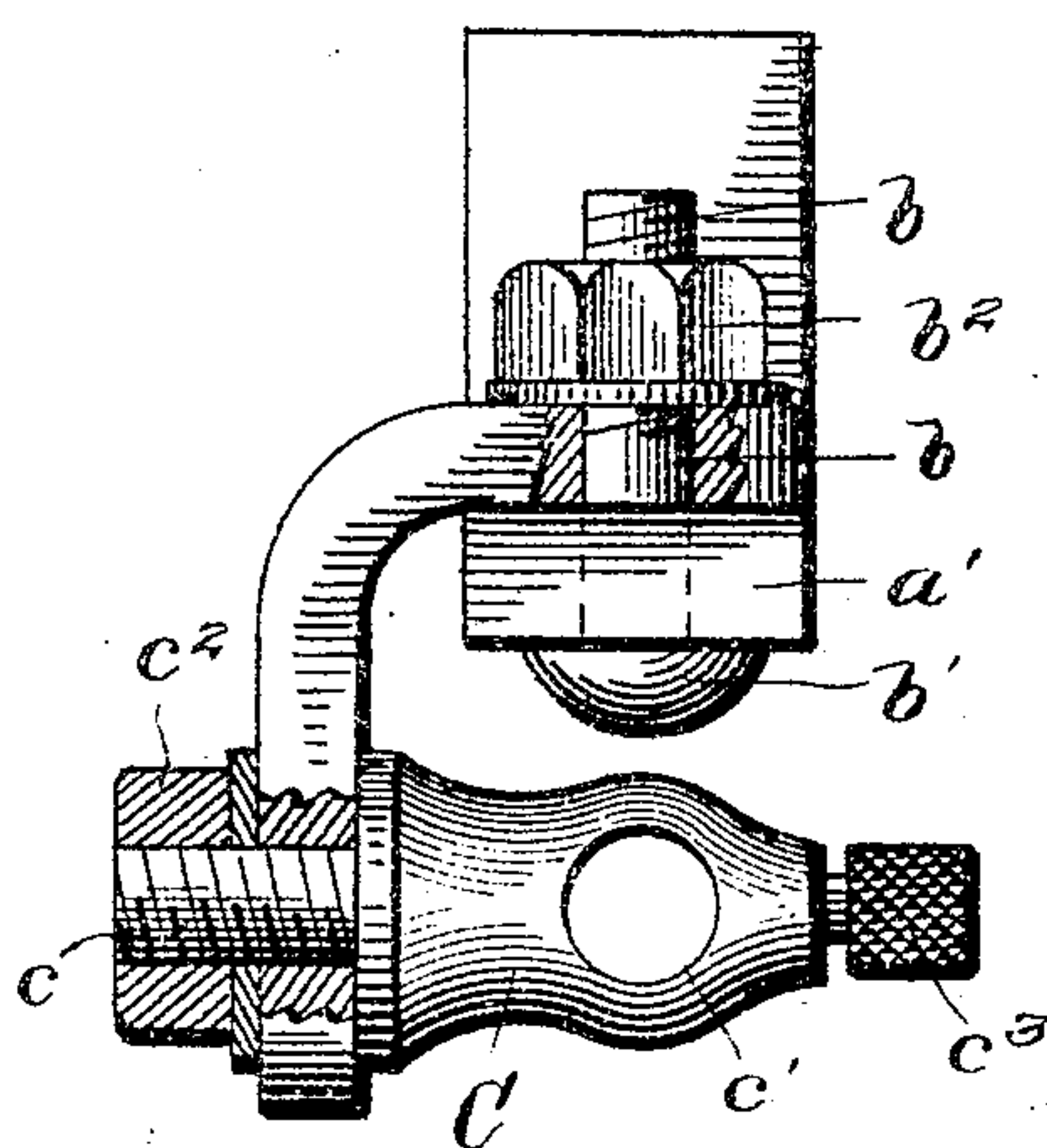
E. TOMPKINS.  
PUSH DOWN HOLDER.  
APPLICATION FILED APR. 22, 1904.

NO MODEL.

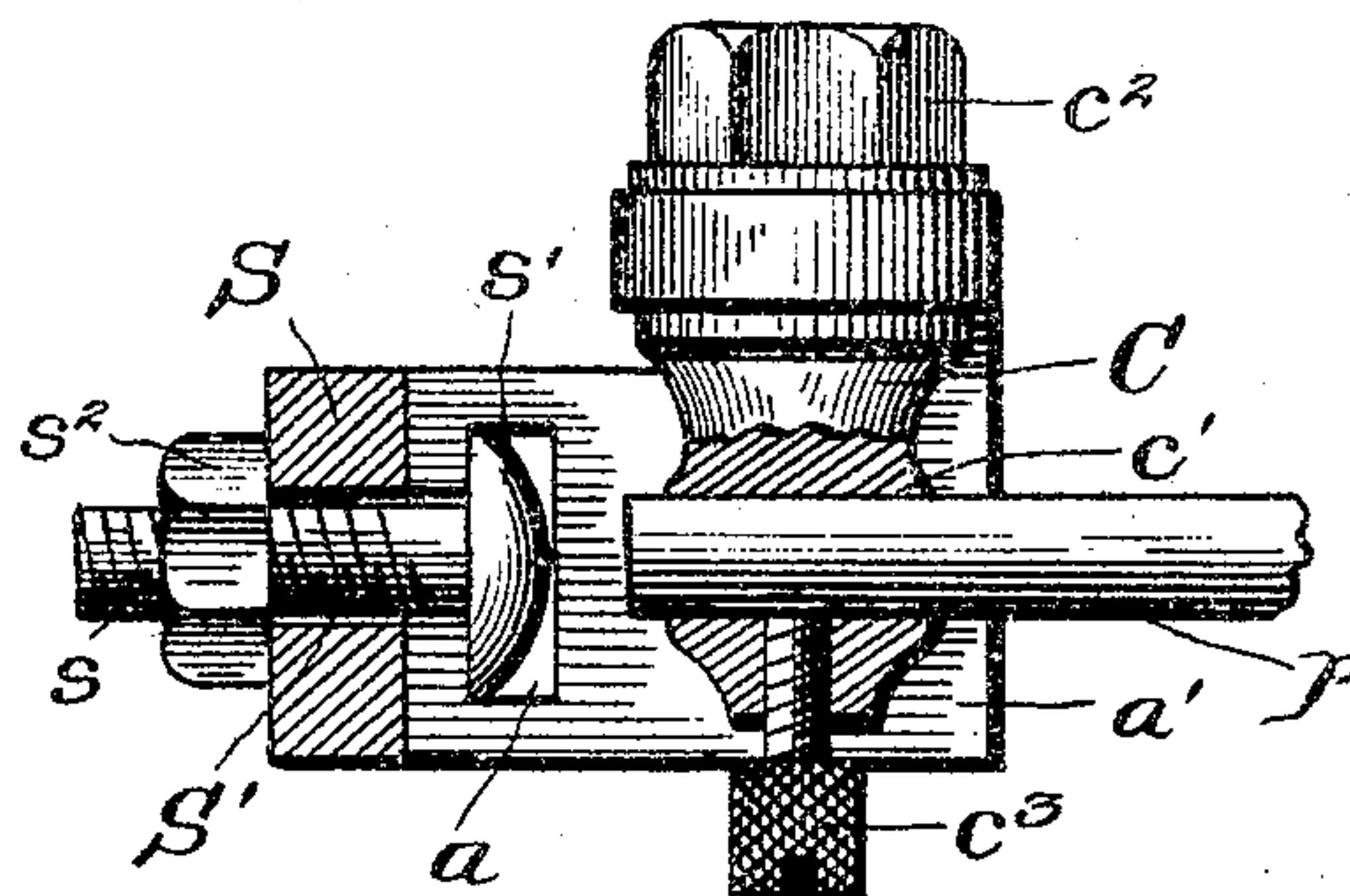
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

*R. A. Boswell.*  
*James J. Mansfield.*

Inventor  
*Ernest Tompkins.*

By *Alexander & Lowell*  
Attorney S.



# UNITED STATES PATENT OFFICE.

ERNEST TOMPKINS, OF TROY, NEW YORK, ASSIGNOR TO TOMPKINS BROTHERS COMPANY, OF TROY, NEW YORK.

## PUSH-DOWN HOLDER.

SPECIFICATION forming part of Letters Patent No. 774,406, dated November 8, 1904.

Application filed April 22, 1904. Serial No. 204,356. (No model.)

*To all whom it may concern:*

Be it known that I, ERNEST TOMPKINS, of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Push-Down Holders; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

This invention relates to knitting machinery, and is an improved holder or support for the push-downs, cloth-wheels, or other detachable operative parts of the mechanism which require a large range of adjustment.

By means of this invention a greater range of adjustment is permitted the push-downs than is possible with the old-style holders and the push-down may be swung in any direction.

The invention comprises a base-piece or bracket adjustably attached to the standard, a strap or hanger pivoted to said bracket substantially at right angles to the axis thereof, an axially rotatable or adjustable support attached to the strap at right angles to the plane of its pivot, and means for attaching the push-down to said support, the whole being so constructed that the push-down or other device may be moved in either or both of two intersecting planes, whereby the utmost range of adjustment is afforded.

I will now describe the particular embodiment of the invention illustrated in the drawings, which will impart a clear understanding thereof, although I do not consider the invention restricted to the specific forms shown.

Figure 1 is a side elevation of the complete push-down support. Fig. 2 is a front view thereof with the push-down removed. Fig. 3 is a bottom plan view.

The holder proper comprises bracket A, hanger B, and support C, the hanger being pivoted on the bracket and the support pivoted to the hanger at right angles to its pivot. The bracket A has a T-slot  $a$  in its base, which is engaged by the head  $s'$  of a bolt  $s$ , transfixing a vertical slot  $S'$  in a standard  $S$  and clamped thereto by a nut  $s^2$ , as shown. This connection affords one adjustment vertically

and rotatively for the holder on the standard. The bracket has a projecting lug  $a'$ , to which is pivotally secured the upper end of the hanger B by means of a bolt  $b$ , having an enlarged head  $b'$  below lug  $a'$  and secured by the nut  $b^2$ . This bolt  $b$  is approximately in line with and at right angles to bolt  $s$  and affords a rotative adjustment for the hanger on the bracket. The hanger is bent so that its lower end is approximately at right angles to its upper end, and to this lower end is attached the support C, which is in the form of a special bolt having a threaded portion  $c$  passing through a hole in the hanger and retained by a nut  $c^2$ , which affords a rotative adjustment of the support on its own axis relatively to the hanger. Support C extends in a plane at right angles to the bolt  $b$  and also at right angles to the axis of bolt  $s$ , and it has a diametrical opening  $c'$  at right angles to portion  $c$ , in which the stud or pintle  $p$ , carrying the push-down, is secured by means of the set-screw  $c^3$ .

A wheel push-down P is shown in the drawings; but any other form may be employed. The stud or pintle  $p$  may be rotatively adjusted in the opening  $c'$ . As shown, there are four adjustable connections between the push-down proper and the standard—to wit, at  $c'$ ,  $c$ ,  $b$ ,  $s$ —and this permits the amplest range of adjustment of the push-down.

The principal feature of the invention is the peculiar relative arrangement of the pivotal connections of the hanger B to the bracket A and support C, respectively, whereby the push-down can be freely moved in two planes at approximately right angles to each other, thus obtaining a universal-joint adjustment, and having the additional adjustments provided at points  $c^3$  and  $s$ , as above described.

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

1. A push-down holder, comprising a bracket, a bent hanger pivoted to said bracket and capable of lateral adjustment relatively thereto, and a support pivoted to said hanger and extending at right angles to the hanger-pivot.

2. A push-down holder, comprising a



5 bracket, a hanger, and a support, said support extending at right angles to the pivotal connection of the hanger to the bracket, and being rotatable on its own axis, substantially as described.

10 3. A push-down holder, comprising a bracket, a bent hanger pivoted to said bracket, a support pivoted to said hanger and extending at right angles to the hanger-pivot, and rotatable on its own axis, and means for connecting a push-down to said support at right angles thereto, substantially as described.

15 4. A push-down holder, comprising a slotted bracket, a securing-bolt engaging said slot, a bent hanger having one end pivoted to said bracket by a bolt lying at right angles to the securing-bolt; a support attached to the other end of said hanger and extending at right angles to the hanger-pivot bolt; and a push-down  
20 attached to said support, substantially as described.

5. A push-down holder, comprising a slotted bracket, a securing-bolt engaging said slot, a hanger having one end pivoted to said bracket

by a bolt lying at right angles to the securing-bolt; a support attached to the other end of said hanger, rotatable on its own axis, and extending at right angles to the hanger-pivot bolt; and a push-down attached to said support and extending at right angles thereto, substantially as described. 25 30

6. The combination of a slotted standard, a bracket having a T-slot, a bolt engaging the slots of the standard and bracket; a bent hanger, a bolt pivoting one end of the hanger to the bracket, said bolt lying at right angles to the first bolt; a support, rotatable on its own axis, attached to said hanger, and extending at right angles to the hanger-pivot bolt, and a means for securing a push-down to said support, substantially as described. 35 40

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ERNEST TOMPKINS.

In presence of—

A. M. KNOWLSON,  
WALTER HORTON.