

No. 607,122.

**Patented July 12, 1898.**

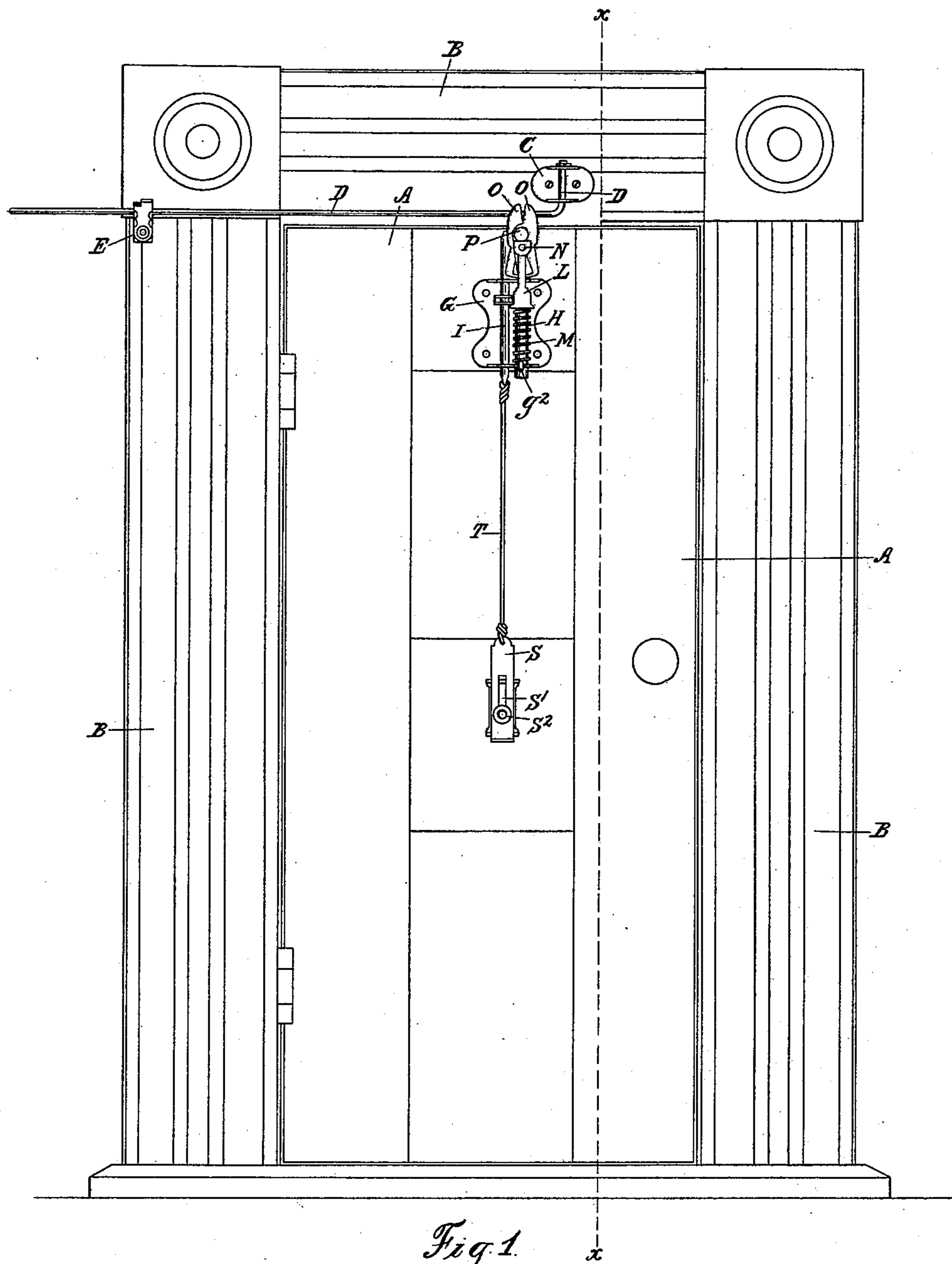
**W. H. MURRAY.**

**COMBINED DOOR HOLDER AND LOCK.**

(Application filed Oct. 11, 1897.)

(No Model.)

3 Sheets—Sheet 1.



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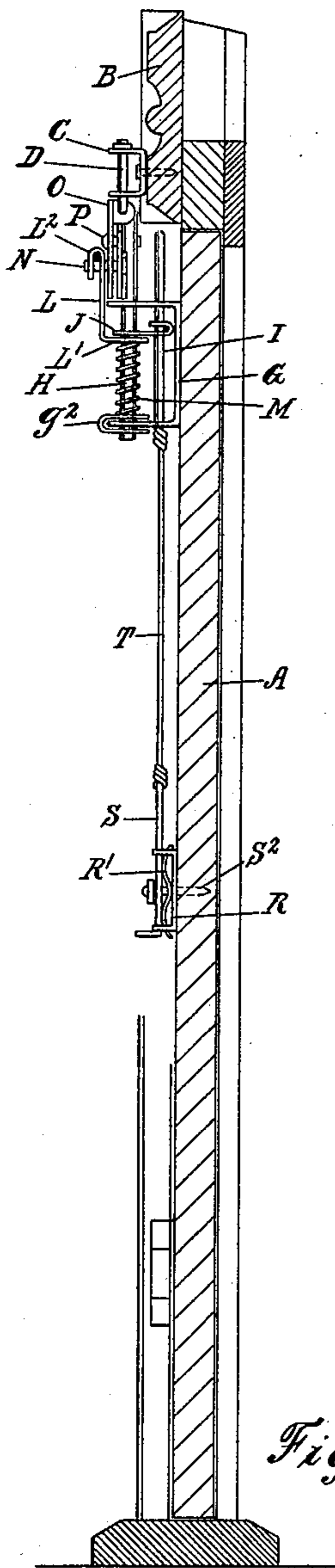


Fig. 2.

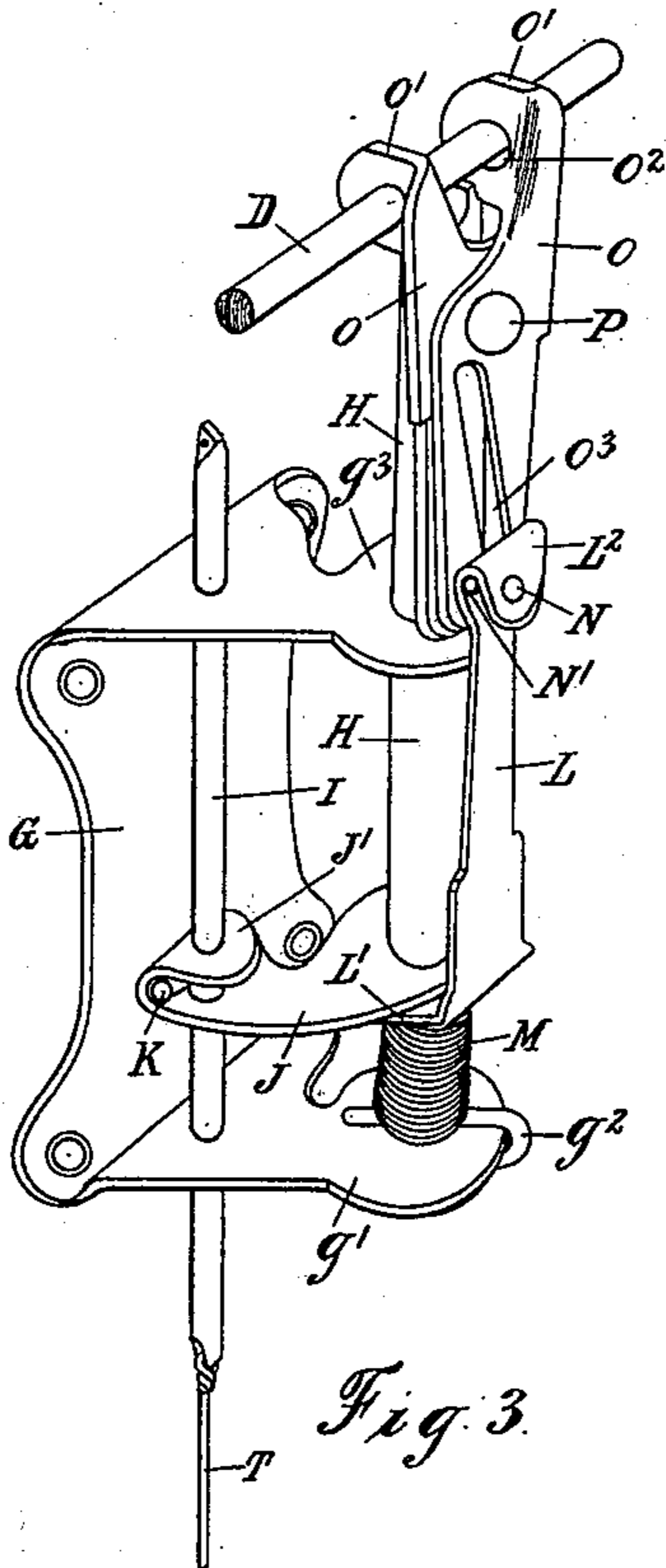


Fig. 3.

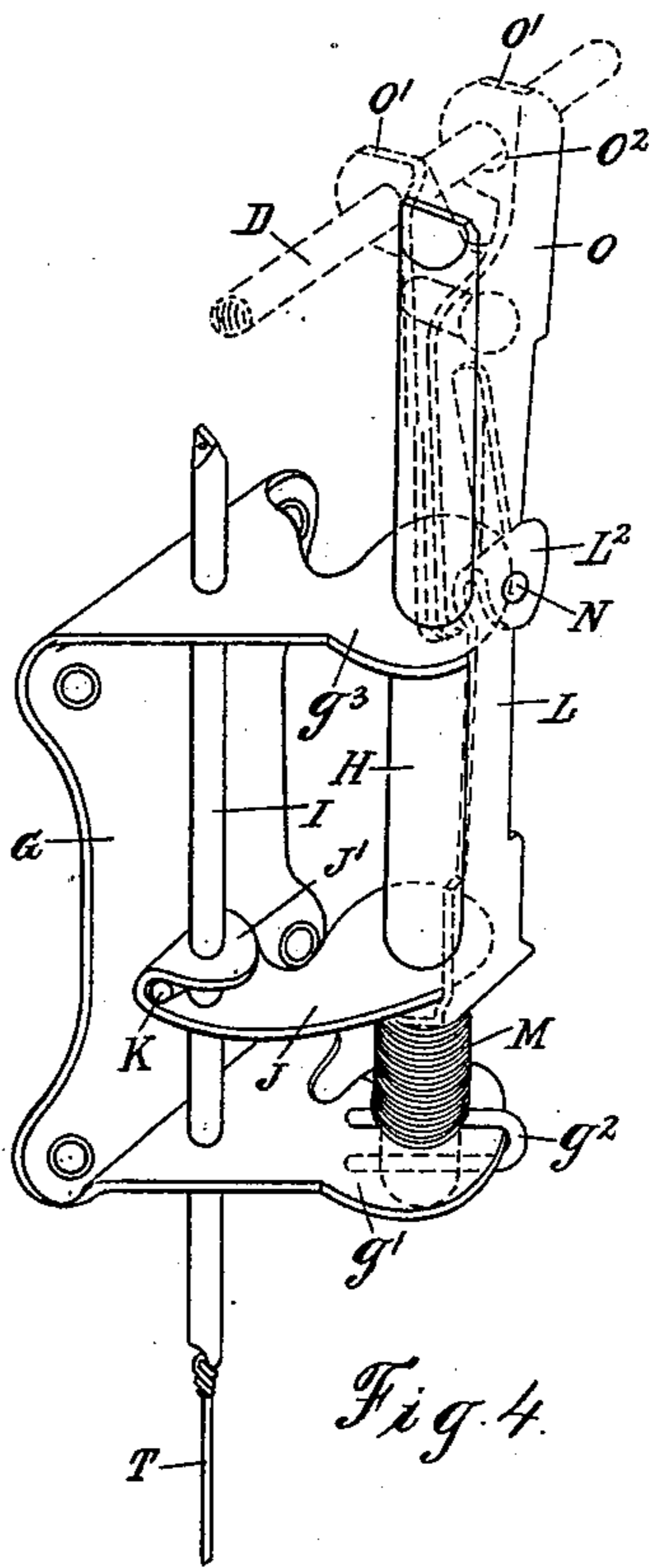


Fig. 4.

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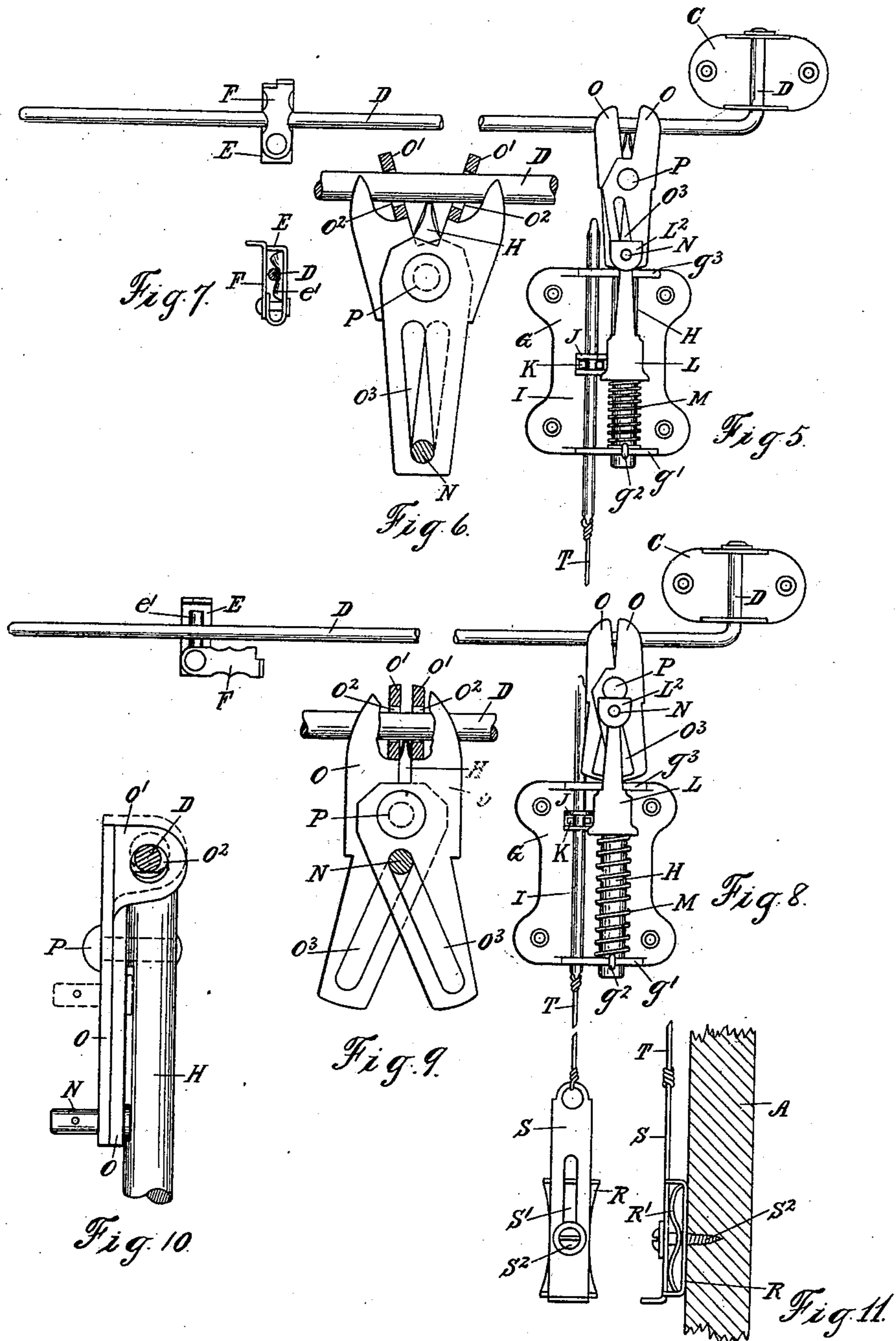
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# UNITED STATES PATENT OFFICE.

WILLIAM H. MURRAY, OF TAVISTOCK, CANADA.

## COMBINED DOOR HOLDER AND LOCK.

SPECIFICATION forming part of Letters Patent No. 607,122, dated July 12, 1898.

Application filed October 11, 1897. Serial No. 654,909. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HENRY MURRAY, a subject of the Queen of Great Britain, and a resident of Tavistock, in the Province of Ontario, Canada, have invented a new and useful Combined Door Holder and Lock, of which the following is a specification.

This invention relates to a device having the twofold function of securely holding a door when open or in any partly-open position and also for fastening and locking a door when closed, and has for its object the provision of a device simple in construction, cheap in manufacture, and efficient in practical use; and the invention consists of the novel construction and combination of parts hereinafter fully described and claimed, reference being had to the accompanying drawings, wherein—

Figure 1 is a front elevation of a door and door-case, illustrating the application of my invention thereto. Fig. 2 is a side elevation of my invention and a sectional view of the door and door-case on the line *xx* of Fig. 1. Fig. 3 is an enlarged detail perspective view of the holding and locking apparatus and its supporting-bracket. Fig. 4 is another view of same, part of which is shown in dotted lines. Fig. 5 is an enlarged detail front view of the holding and locking apparatus adjusted to lock the door when closed. Fig. 6 is an enlarged detail front view of the clamps, partly cut away, the rod and the upper portion of the post adjusted as shown in Fig. 5. Fig. 7 is a detail side view of the buffer and case, showing the rod secured therein. Fig. 8 is another detail front view of the holding and locking apparatus adjusted to permit the free opening and closing of the door. Fig. 9 is an enlarged detail front view of the clamps, partly cut away, the rod and upper portion of the post adjusted as shown in Fig. 8. Fig. 10 is an enlarged detail side view of the clamps, the rod, and the upper portion of the post. Fig. 11 is an enlarged detail side view of the device which holds the locking apparatus in the position to which it may be adjusted.

A designates the door, B the door case or frame, and C a bracket secured to said door-case, as shown in Fig. 1.

D designates a rod pivotally secured at one end in the bracket C, and the other end of this

rod may be provided with a knob to give it a finish, if desired.

E designates a buffer-case which is secured to the door case or frame B, and said buffer-case is provided with a buffer *e'*, formed of rubber or other suitable material, and F is a hasp pivoted on the buffer-case E, which firmly holds the end of the rod D in said buffer-case E when desired.

G designates a bracket, (shown particularly in Figs. 3 and 4,) which bracket is rigidly secured to the door A, and H designates a post, and I a bar which is held in position and supported by said bracket G, said post H extending through and being secured to the outwardly-projecting portion *g'* by a staple *g''*, which is inserted in pin-holes in the post H above and below the portion *g'* of the bracket G for the purpose of firmly securing the lower end of said post to said bracket, and said post H extends upward through the outwardly-projecting portion *g''* of the bracket G to further firmly brace and hold said post in position. The bar I is adjustable and extends through and is guided in the outwardly-projecting portions *g'* and *g''* of the bracket G; but said post H and bar I may be supported in any manner or by any means found most suitable or convenient.

J designates an arm, (shown particularly in Figs. 3 and 4,) which arm is provided with a returned end *J'*, and through openings in the arm J and returned end *J'* the bar I projects, and the latter is rigidly secured to said arm J by a pin K, inserted between said arm J and bar I, as shown in Fig. 3. Through the other end of the arm J the post H projects, and up and down on the latter said arm J moves perfectly free, at the same time being retained in contact therewith.

L designates a plate provided with an angular end *L'*, through an opening in which angular end the post H projects, and said plate is provided with a returned end *L''*.

M designates a coil-spring encircling the post H and interposed between the angular end *L'* of the plate L and the outwardly-projecting portion *g'* of the bracket G.

N designates a bolt, one end of which is rigidly secured in the upper end of the plate L by a pin *N'*, inserted between said plate L and bolt N.

O O designate pivotal clamps placed in juxtaposition, each of which is provided with a flange O', in which an opening O<sup>2</sup> is formed, and through the latter the rod D projects, and in each of these clamps O an elongated slot or opening O<sup>3</sup> is formed, into both of which openings O<sup>3</sup> the bolt N projects and is operated therein to adjust both of the clamps O simultaneously, so that the portion of the flanges O' which surround the openings O<sup>2</sup> will bind on the rod D when desired.

P designates a pivot-bolt rigidly secured in the post H, on which pivot-bolt, between the enlarged head thereof and the post, the clamps O are pivoted.

R' designates a spring, and R a plate interposed between said spring and the door A, and S is a sliding plate provided with an elongated slot or opening S', and S<sup>2</sup> is a screw or other suitable securing device which extends through the elongated slot S' and through screw-holes in the spring R' and plate R for the purpose of securing these devices to the door at a suitable point below the bracket G, and T is a strand of cord, wire, or other suitable material which connects the bar I with the sliding plate S.

The operation is as follows: The elongated slot S' in the plate S permits the movement lengthwise of the latter, and the frictional contact of said plate with the spring R' holds said plate, as well as the parts to which it is connected, at the position to which they may be adjusted. This forms a convenient means of accomplishing these results; but they may be accomplished in any manner or by any means found most suitable or convenient. By adjusting the plate S from the bracket G the bar I, arm J, plate L, and bolt N will be adjusted proportionately in the same direction, and this will compress the spring M and adjust the bolt N toward the outer end of the elongated slots O<sup>3</sup> in the clamps O, and these clamps O being pivoted on the bolt P, said slotted ends of the clamps O will be adjusted together or over on one another, and the other ends of said clamps O, carrying the flanges O', will be adjusted apart, and the adjustment apart of the upper ends of said clamps O will cause the faces of the flanges O' surrounding the openings O<sup>2</sup> to bind on the rod D, and also to bind the rod D on the post H, and the rod D being attached to the door case or frame B and clamps O and post H to the door A the latter will be rigidly held open or in any partly-open position to which it may be adjusted, and if the door should be closed when so adjusted the door would be securely fastened and locked in said closed position, and to further assist in securely fastening the door closed the outer end of the rod D may be secured by the buffer-case E and hasp F, as shown in Fig. 7. By adjusting the plate S toward the bracket G the compression is removed from the spring M, which expands and adjusts the plate L, bolt N, and clamps O to the position shown in Figs. 8 and 9.

When so adjusted, the lower ends of the clamps O will be apart and the upper ends together, which will bring the openings O<sup>2</sup> in the flanges O' in line with the rod D. This releases the clamps O from the rod D and permits the free adjustment of the rod D in the openings O<sup>2</sup>. Then by adjusting the hasp F to the position shown in Fig. 8 the door may be freely opened or closed, as desired, and when adjusted to the desired position it may be held and locked in said position, as hereinbefore described.

In order to adapt this invention to a door opening to the right, the staple below the spring and the upper bolt are removed and the position of the bracket inverted. Then by putting the staple and spring in position again the apparatus will be adapted to a door opening to the right.

I have found by experiment that the construction herein shown and described gives the best results. At the same time, while I prefer this construction, I do not wish to limit myself to the details thereof, as they may be modified in various ways without departing from the spirit of my invention.

Having thus described my invention, I claim—

1. A combined door holder and lock consisting of the pivotal clamps, O, O, attached to the door, and each formed with an elongated slot, O<sup>3</sup>, and a flange, O', in which an opening, O<sup>2</sup>, is formed, in combination with the pivotal rod, D, attached to the door-case, or other suitable support, the bolt, N, and means for supporting and operating the latter, substantially as and for the purpose set forth.

2. A combined door holder and lock consisting of the pivotal clamps, O, O, attached to the door and the pivotal rod, D, in combination with the buffer-case, E, buffer, e', and hasp, F, said rod, D, and case, E, being attached to the door-case or other suitable support substantially as and for the purpose set forth.

3. A combined door holder and lock consisting of the pivotal clamps, O, O, attached to the door and the pivotal rod, D, secured to the door-case or other suitable support in combination with the spring-plate, R, spring, R', plate, S, in which an elongated slot, S', is formed and suitable means for securing these devices to the door substantially as and for the purpose set forth.

4. A combined door holder and lock consisting of the pivotal clamps, O, O, each formed with an elongated slot, O<sup>3</sup>, and a flange, O', in which an opening, O<sup>2</sup>, is formed, the pivotal rod, D, and means for supporting said clamps and said rod in combination with the pin, N, the plate, L, post, H, arm, J, spring, M, bar, I, and bracket, G, substantially as and for the purpose set forth.

5. A combined door holder and lock consisting of the pivotal clamps, O, O, each formed with an elongated slot, O<sup>3</sup>, and a flange,

O', in which an opening, O<sup>2</sup>, is formed the  
pivot-bolt, P, the pivotal rod, D, and the  
bracket, C, in combination with the pin, N,  
the plate, L, provided with the angular end,  
5 L', post, H, arm, J, spring, M, bar, I, and  
bracket, G, substantially as and for the pur-  
pose set forth.

In testimony whereof I have signed in the  
presence of the two undersigned witnesses.

WILLIAM H. MURRAY.

Witnesses:

P. J. EDMUNDS,  
S. MCBAIN.