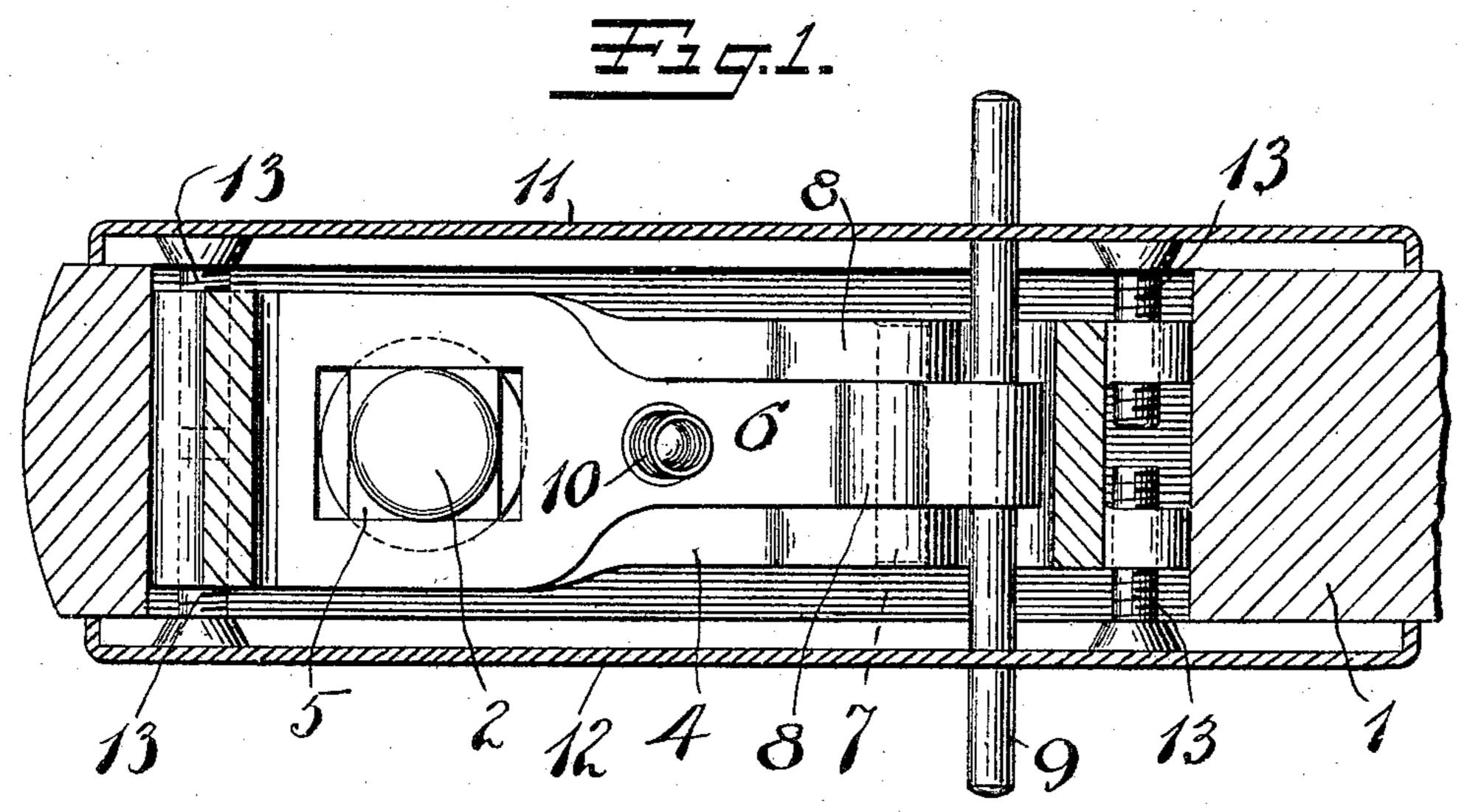
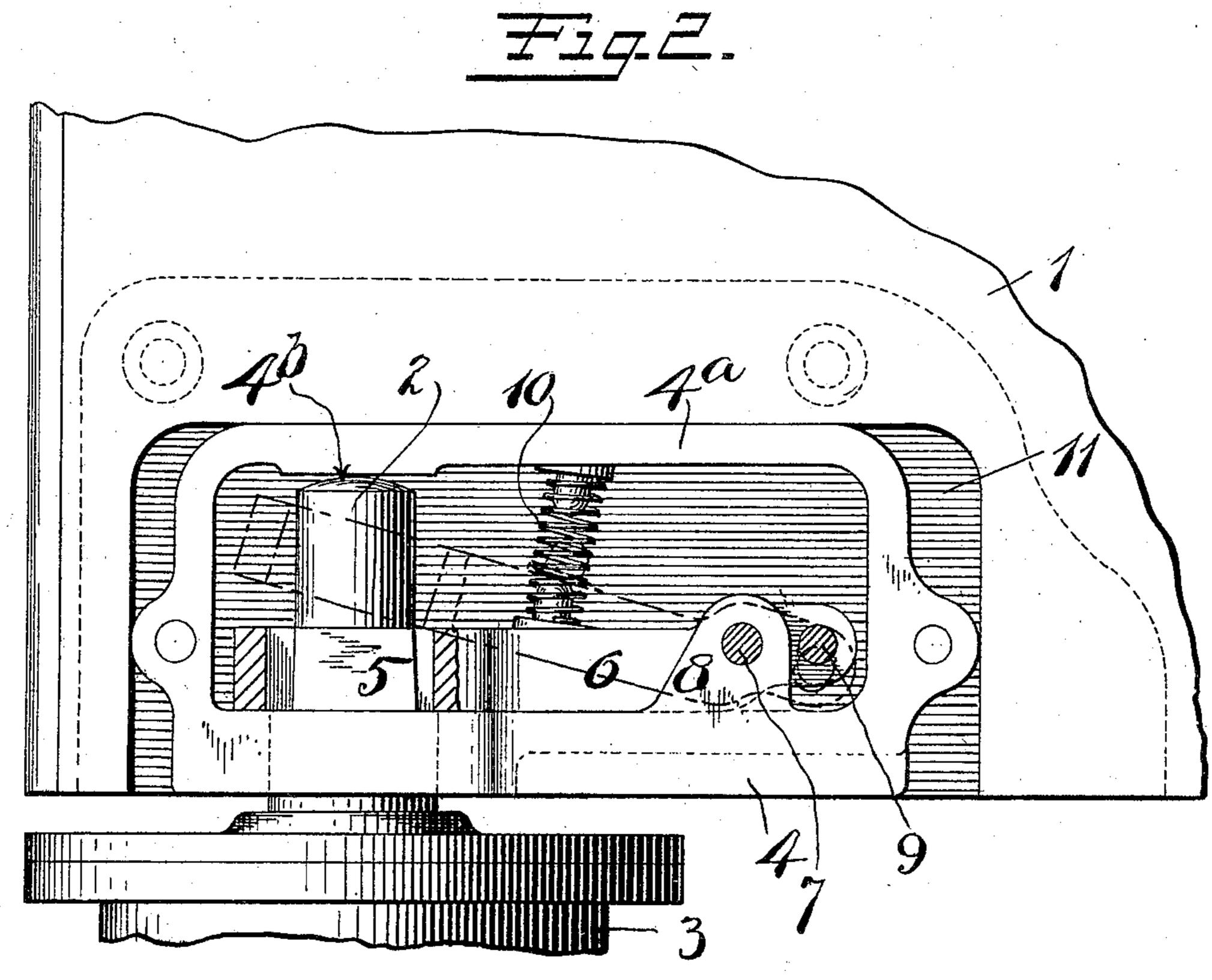
H. G. VOIGHT. DOUBLE ACTING SPRING HINGE. APPLICATION FILED MAR. 21, 1910.

965,967.

Patented Aug. 2, 1910.

2 SHEETS-SHEET 1.





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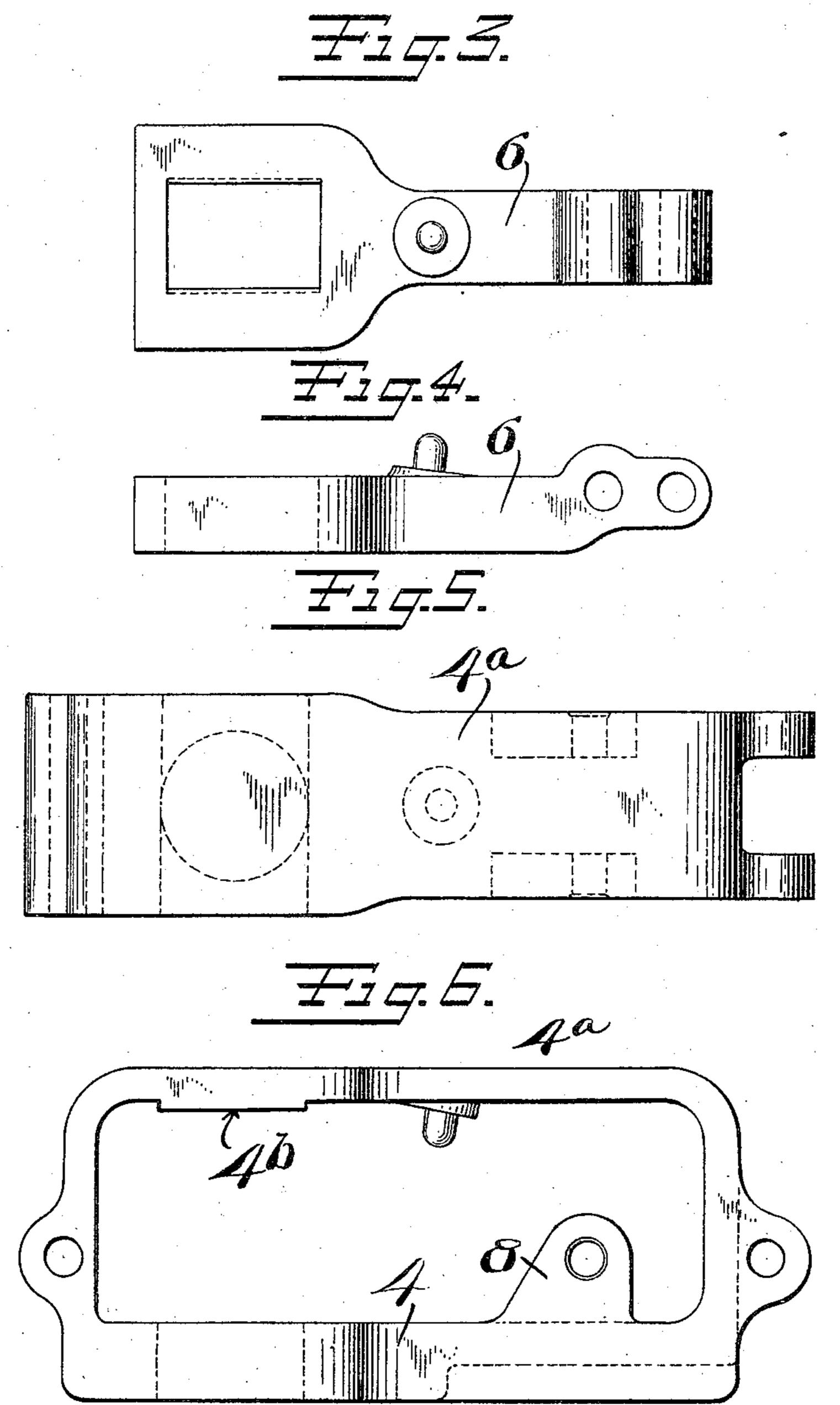
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UNITED STATES PATENT OFFICE.

HENRY G. VOIGHT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO RUSSELL & ERWIN MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

DOUBLE-ACTING SPRING-HINGE.

965,967.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed March 21, 1910. Serial No. 550,569.

To all whom it may concern:

Be it known that I, Henry G. Voight, a citizen of the United States, residing at New Britain, county of Hartford, State of Con-5 necticut, have invented certain new and useful Improvements in Double-Acting Spring-Hinges, of which the following is a full, clear, and exact description.

My invention relates to improvements in 10 double swing spring hinges, so-called, the object being to provide simple and effective support, together with means for releasing the door so that it may be held ajar by the same spring that would ordinarily operate 15 to close the same.

In the accompanying drawings Figure 1 is a horizontal section of a portion of a door and part of my mechanism, other parts of the latter being shown in plan. Fig. 2 20 is a side elevation of my invention as applied to a door, the latter being partly broken away and one of the cover plates views of various parts shown in Figs. 1 25 and 2.

1 represents a part of a door. 2 represents a spindle mounted in a housing 3 and controlled by a spring in any suitable way in such manner that such spindle 2 is re-30 stored to a normal position after being turned in either direction away from said normal position. Spring devices for restoring spindles such as 2 are so well known as to require no detailed description, it be-35 ing merely sufficient to state broadly that the spindle 2 is spring-controlled. The housing 3 is ordinarily placed in the door sill or threshold adjacent to one side of the door casing, so that the spindle 2 will pro-40 ject into the lower edge of the door. A suitable spindle support (not shown) is provided in the upper part of the door casing directly above the spindle 2. The parts thus far referred to are well understood 45 and require no further description.

4 is what I may term a shoe support arranged to be let into a notch or recess in the lower edge of the door and suitably secured therein in any desired manner. The ⁵⁰ lower part of this shoe is provided with a passage for the spindle 2.

4^a is an upward arched extension from the shoe 4, the same having a bearing 4^b arranged to rest upon the upper end of the ⁵⁵ spindle 2 so as to support the door. The

spindle 2, at a point intermediate its length, is squared as at 5.

6 is a lever connection pivoted at 7 in a boss 8 formed on the upper side of the shoe 4. This lever connection has a rectangular 60 passage at its forward end arranged to fit over the squared part 5 of the spindle. 10 is a spring operating to move said lever 6 in a direction to normally engage the squared part of the spindle 5.

9 is a laterally projecting pin at the rear end of the lever 6, the ends of said pin projecting preferably on both sides of the door 1.

11—12 are cover plates at the opposite 70 sides of the door, the same being rigidly held in place preferably by screws 13, which preferably take into parts of the shoe 4, whereby all of the parts are held together. These plates are provided with suitable 75 clearance slits for the pin 10, whereby said pin may be depressed by the foot for the removed. Figs. 3, 4, 5 and 6 are detail purpose of lifting the opposite end of the lever 6 so as to disconnect the same from the squared part 5 of the spindle 2, as indicated 80 in dotted lines Fig. 2.

By the arrangement shown herein it is merely necessary to saw a notch in the lower edge of the door to receive the shoe 4 and its associated parts, the plates 11 and 85 12 serving to hold the same in place being preferably made of sufficiently heavy stock to perform that function. The plates 11—12 may, of course, be secured to the door in any suitable manner, as by ordinary wood 90 screws, certain parts of said plates, of course, overstanding a part of the door adjacent the notch.

From the foregoing it will be seen that when the parts are properly set up, the door 95 receives its lower support upon the spindle 2, which is so placed that in its normal position it will, through the medium of the lever 6, serve to hold the door closed. Whenever the door is swung to the right or left (with 100 the lever connections 6 in the position shown in solid lines, Fig. 2) it will be returned by the spring-controlled spindle 2. If, however, it is desired to open the door and to permit it to stand ajar, the operator merely 105 places his or her foot upon the pin 9, disconnecting the lever 6 from the squared part of the spindle 2. The door is then swung to the open position at right angles to the closed position, whereupon on releasing the 110

pressure on the pin 9, the spring 10 restores the lever 6 to the spindle engaging position, in which position the door is held ajar so long as desired. By this very simple means, a double swing self-closing hinge is so constructed that the door may be held ajar whenever desired, without the necessity of employing auxiliary means such as door stops and the like.

What I claim is:

1. In a device of the character described, a hinge pivot or spindle, a shoe adapted thereto and a part carried by said shoe arranged to rest upon and be supported by the upper end of said spindle whereby said shoe may turn independently of and on said spindle, and means for coupling said shoe

with and uncoupling the same from said

spindle.

2. In a device of the character described, 23 a hinge pivot or spindle, a shoe having a passage for said spindle, in which the latter may rotate, and an upwardly arched extension, said extension overstanding the upper end of said spindle and arranged to operate 25 as a bearing therefor, a manually operable locking device arranged in the space between the shoe and said extension, whereby said shoe may be coupled to or uncoupled from said spindle for rotation.

HENRY G. VOIGHT.

Witnesses:

M. S. WIARD, H. J. BROWNE.