

(No Model.)

J. E. FEHN.
DOOR STOP.

No. 506,681.

Patented Oct. 17, 1893.

Fig. 1.

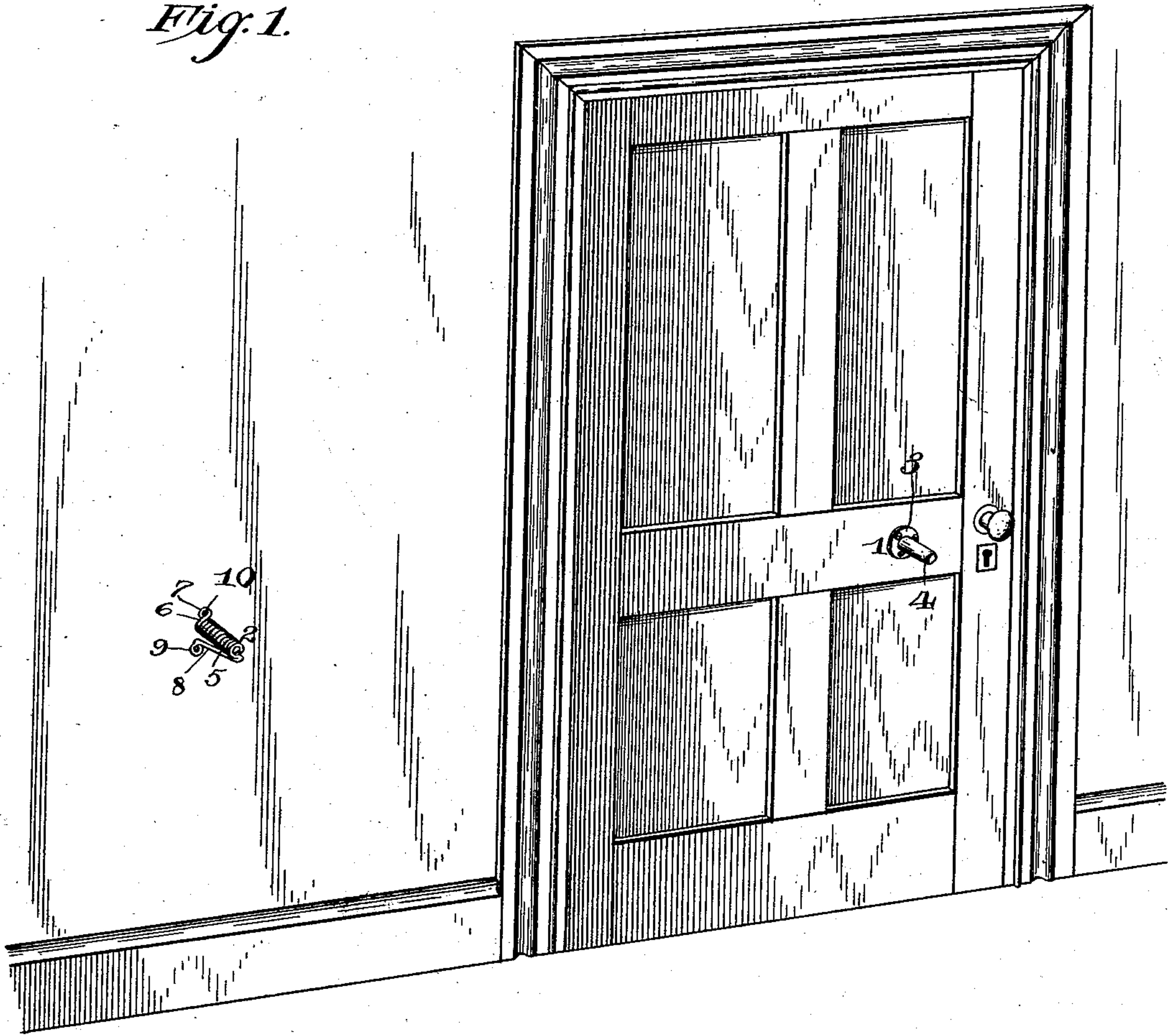


Fig. 2.

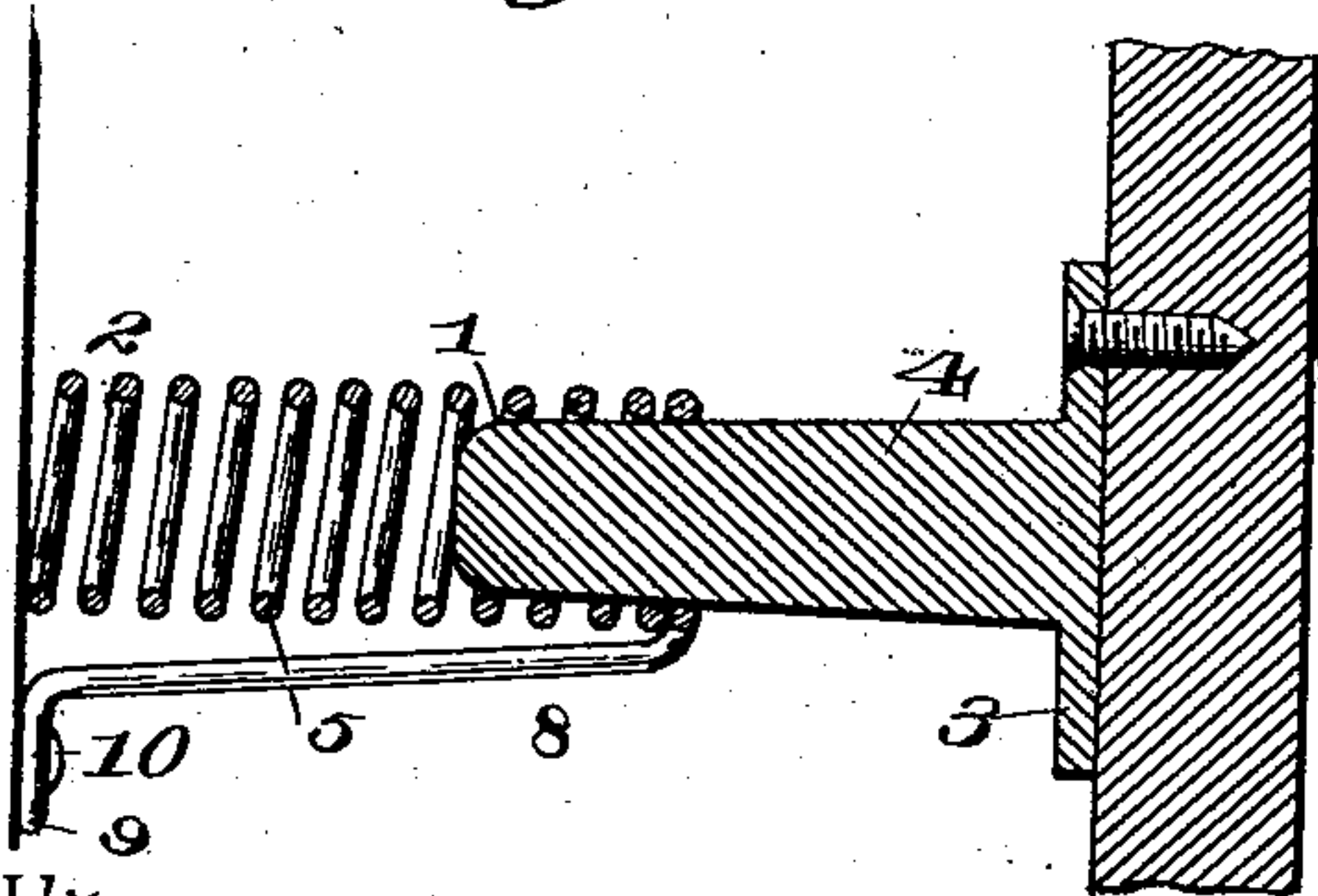
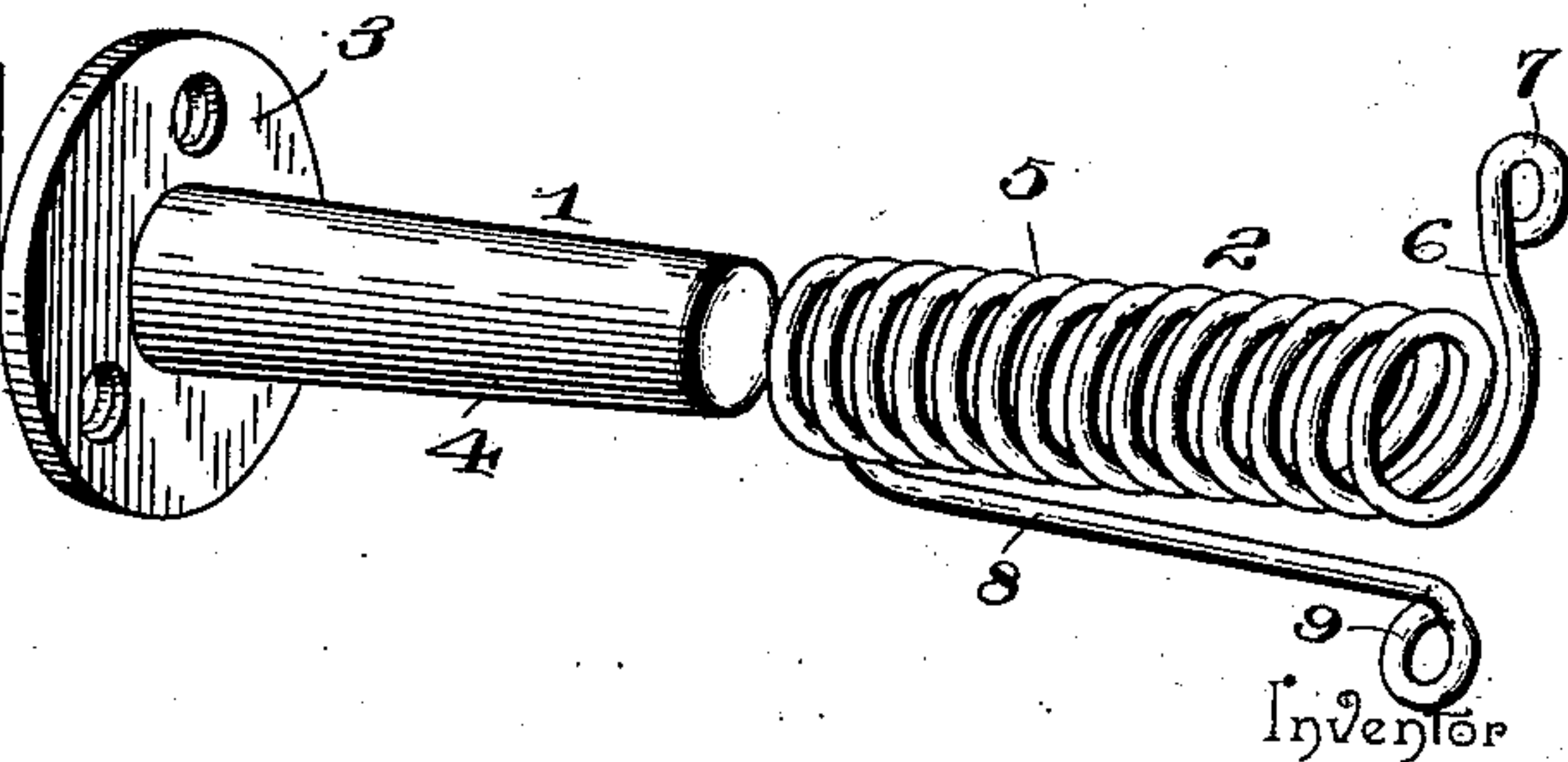


Fig. 3.



Witnesses:

Chas. Ford
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By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

JOHN E. FEHN, OF PHILADELPHIA, PENNSYLVANIA.

DOOR-STOP.

SPECIFICATION forming part of Letters Patent No. 506,681, dated October 17, 1893.

Application filed May 27, 1893. Serial No. 475,694. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. FEHN, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Door-Stop, of which the following is a specification.

My invention relates to improvements in door stops; the objects in view being to produce a cheap and simple device to be applied to doors and to the adjacent walls, the said stop being so constructed that its two members will interlock when brought together and form a means for securing the door in such manner as to prevent it from accidental closing; to so construct the stop as to absorb the jar caused by a violent opening of the door and thus prevent injury to the wall.

With these and other objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a general view of a door and adjacent wall, the same being provided with a stop constructed in accordance with my invention. Fig. 2 is a horizontal section through the door and wall, the door being opened and secured by the stop. Fig. 3 is a detail in perspective of the stop, the two members being separated.

Like numerals of reference indicate like parts in all the figures of the drawings.

As is usual in this class of devices the stop consists of two members 1 and 2, the former being secured to the door and the latter to the wall, or their relative positions may be reversed if desired. The member 1 in the present instance consists of a circular base 3 perforated to form a securing-plate, and from the center of the plate projects a stud 4, the same being slightly conical and having its outer end rounded. The member 2 is formed of spring-wire, and in manufacturing the same a wire-blank of sufficient length is coiled for a portion of its length to form a socket 5 of a uniform bore or diameter throughout its length for the reception of the stud, said socket being normally of such diameter as to receive the rounded outer end of the stud and the

stud being forced therein and being conical will bind in said socket. The inner end of the coiled wire blank is carried laterally as at 6 and bent to form a securing eye 7. The outer terminal of the wire blank is carried rearward as at 8 until it reaches a plane with the eye 7 and is bent laterally to form an eye 9. The two eyes are in the same plane and receive screws 10 by which the device is secured in position upon the wall, wainscoting, mopboard, or other object.

The operation of the device will be readily understood as it is similar to those in ordinary use, and it simply remains to be said that a ready engagement may be effected while the door is held secure and against accidental closing, yet it requires very little effort to withdraw the stud from its position in the socket, thus separating the two members and permitting of a closing of the door.

I do not limit my invention to the precise details of construction herein shown and described, but hold that I may vary the same to any extent and degree within the knowledge of the skilled mechanic.

Having described my invention, what I claim is—

1. The herein described door stop, the same consisting of a coiled wire socket of uniform diameter, combined with a tapered stud whose outer end fits the bore of said socket, substantially as specified.

2. The herein described door stop, the same consisting of a socket formed of coiled spring wire, the inner terminal of the coil being laterally bent to form an eye, and the outer terminal rearwardly bent to a plane with the remaining terminal and laterally bent to form an eye, combined with a stud adapted to be secured to a door, said stud being conical and adapted to enter and bind within the socket, substantially as specified.

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

JOHN E. FEHN.

Witnesses:

ADAM FEHN,
ANDREW B. GRAY.