

(No Model.)

J. L. WILSON.  
DOOR SPRING.

No. 520,282.

Patented May 22, 1894.

Fig 1

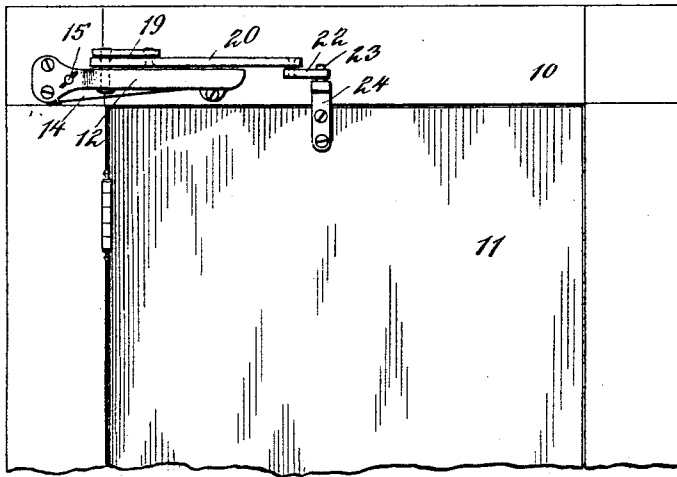


Fig 2

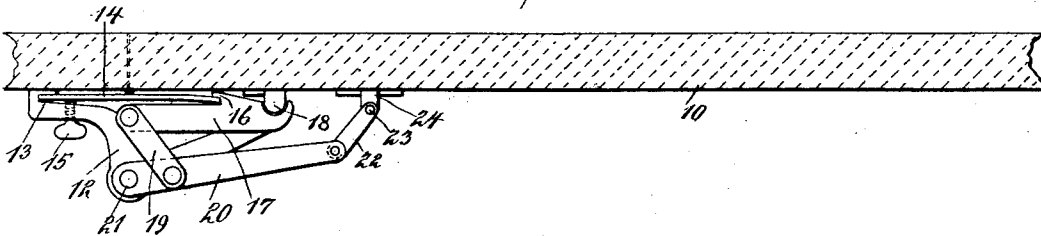
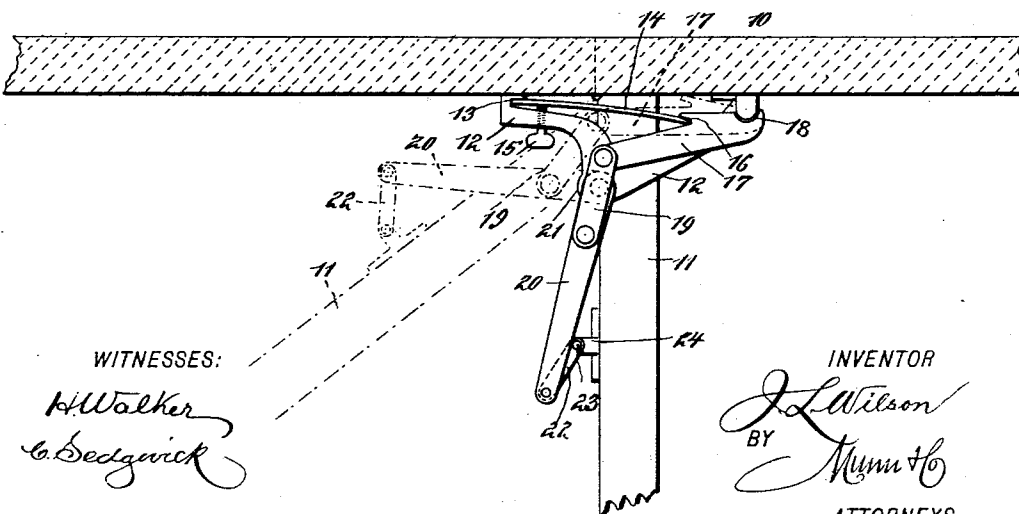


Fig 3



WITNESSES:

H. Walker  
C. Sedgwick

INVENTOR

J. L. Wilson  
BY Munn & Co.

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JAMES L. WILSON, OF MOUNTAIN PEAK, TEXAS.

## DOOR-SPRING.

SPECIFICATION forming part of Letters Patent No. 520,282, dated May 22, 1894.

Application filed September 20, 1893. Serial No. 485,958. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES L. WILSON, of Mountain Peak, in the county of Ellis and State of Texas, have invented a new and Improved Door-Holder, of which the following is a full, clear, and exact description.

My invention relates to improvements in door holders, and the object of my invention is to produce an extremely cheap, simple and durable device which may be conveniently applied to a door frame and door, and which is adapted to hold the door in either a closed or open position as desired.

To these ends, my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of my improved door holder as applied to a door and frame. Fig. 2 is a plan view of the same, showing the position of the several parts of the device when the door is closed; and Fig. 3 is a similar view to Fig. 2, but with the door half open, that is, extending at right angles to the frame.

To the door frame 10, near the top of the door 11 which swings in the frame in the usual way, is fastened a bracket 12, this bracket being preferably arranged above the hinged edge of the door so as to extend horizontally, and the bracket is provided with a flat top to enable the levers above it to slide easily thereon. On the inner side of the bracket and near one end, is a notch 13 which receives one end of the plate spring 14, this being adapted to lie normally in a position parallel with the plane of the frame 10, and the spring is held at a proper tension and also bound in place by a set screw 15, which projects through the bracket near the end and impinges on the spring. The opposite end of the spring 14 enters a notch 16 on the inner edge of a lever 17, which lever is fulcrumed at one end, as shown at 18, to the upper side of the bracket, near one end of the latter and at a point above the door 11. The free end of the lever 17 connects by means of a draw link 19, with a second lever

20 which also swings on the bracket 12 and which is pivoted, as shown at 21, to the outer portion of the bracket. The free end of the lever 20 is pivoted to a link 22, and one end of the link is held to turn on a post or stud 23 on the upper end of a bracket 24, which bracket is securely fastened to the door 11. It will be understood that the two brackets 12 and 24 may be of any desired shape and may be ornamented in any suitable manner. When the door 11 is half open, that is, extends at right angles as shown in Fig. 3, the door holder will be on a dead center, with the connecting rod 22 in line with the lever 20, and if the door is closed slightly so as to throw it off the center, the tension of the spring 14 swings the lever 17 inward, and the connecting link 19 draws inwardly on the lever 20, which acting on the link 22 and bracket 24, closes the door and holds it closed, but if the door is swung slightly backward from its half open position, the reverse action takes place, the connecting link 19 pulling backwardly on the lever 20 in the manner shown by dotted lines in Fig. 3, and the door is thrown open and held open.

It will be seen from the foregoing description and by reference to the drawings, that the device may be fastened to any ordinary door and frame, and that it holds the door open or closed equally well. It may also be attached to a gate as well as a door.

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

A door-holder, comprising a bracket adapted to be fastened to a door frame, the bracket having a notch on its inner side and near one end, a notched lever pivoted on the bracket, a spring having one end held in the bracket notch and the other in the notch of the lever, a second lever pivoted on the outer portion of the bracket, a connecting rod extending from the first to the second lever, and means, as the link and door bracket, for connecting the second lever with the door, substantially as specified.

JAMES L. WILSON.

Witnesses:

J. E. COOPER,  
J. A. BELEN.