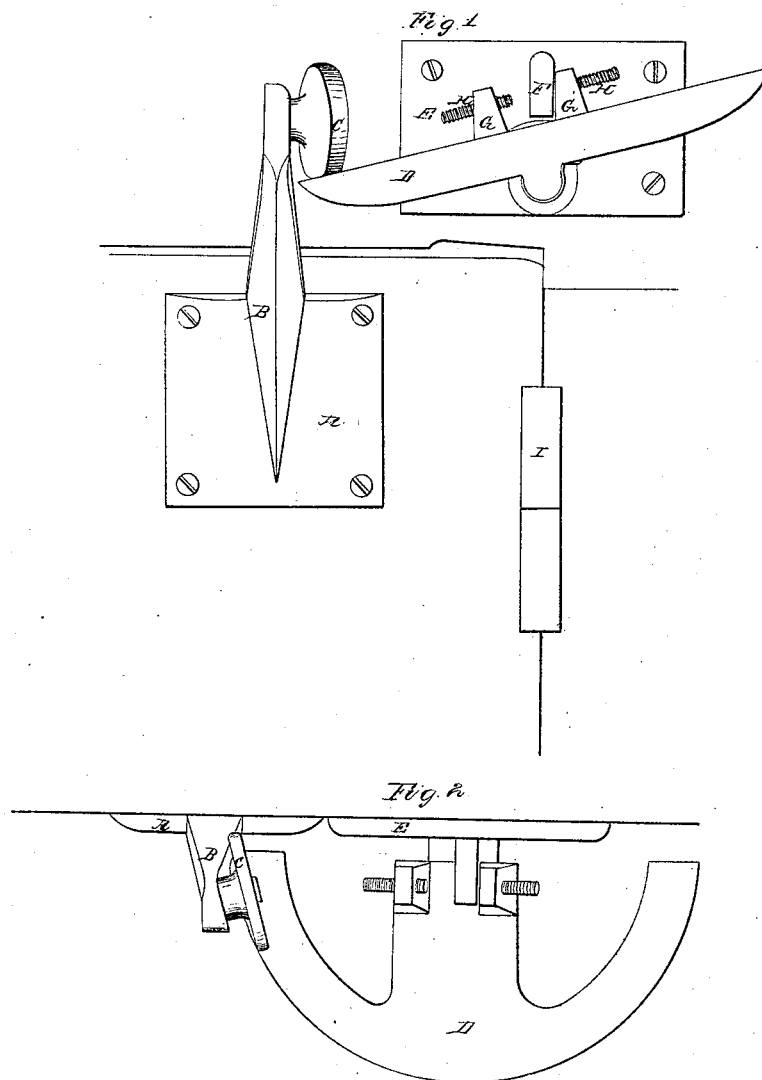


W. Wilson,

*Door Spring.*

*N.<sup>o</sup> 5,579.*

*Patented May 16, 1848.*



# UNITED STATES PATENT OFFICE.

WILLIAM WILSON, OF NORTHAMPTON, MASSACHUSETTS.

## FIXTURE FOR CLOSING DOORS.

Specification of Letters Patent No. 5,579, dated May 16, 1848.

*To all whom it may concern:*

Be it known that I, WILLIAM WILSON, of Northampton, in the county of Hampshire and State of Massachusetts, have made a new and useful Improvement in the Manner of Constructing an Apparatus for Regulating the Closing of Doors, Gates, &c.; and I do hereby declare that the following is a full and exact description thereof.

In the accompanying drawing I have given a representation of a part of a door, and its frame, with the upper hinge of said door, and with my apparatus attached to the door and its frame, said apparatus being shown of the full size in actual use.

Figure 1, is a front, and Fig. 2, a top view of the apparatus.

A, is a plate of metal made fast to the door, from which plate rises an arm B, carrying on its end a friction roller C. This roller rests on a semicircular tilting, or guide piece D, which turns on a stout pivot, or pin, projecting out at right angles from a plate E, that is made fast to the lintel, or upper part of the door frame. From the plate E, projects a stop piece F, and from the upper side of the semicircular guide piece D, rises two studs G, G, that receive set screws H, H, that are to bear against said stop piece, by means of which the extent to which the guide piece is allowed to tilt may be determined. I, is the upper hinge of the door, which is of the kind that has a slip joint, allowing the upper knuckle of said hinge to be raised from the lower knuckle; this being necessary, in order to admit of the intended action of the guide piece.

By the aid of this apparatus the door may not only be made to close with any desired degree of force, but it may be made, also to fall back in the same manner, after it has been opened so as to stand at right angles

to the plane of the door frame; or the tilting piece may be so regulated as to cause the door to remain at rest at any point to which it may be opened beyond the situation of a right angle to the plane of its frame. All that is necessary to produce these effects being the regulating of the tilting piece by means of the set screws H, H; these, it will be manifest, may be so turned as to cause the face of the tilting piece to remain in a horizontal position after the door has been opened far enough to cause it to turn on its joint pin; or it may, by like means, be made to incline back, and thereby to cause the door to approach toward, and to lie against the wall, so as to prevent the danger of its being closed by a current of air, and consequently to remain at rest until shut by design.

Having thus fully described the manner in which I construct my apparatus for regulating the closing of doors, and having also set forth the operation of the same; what I claim therein as new, and desire to secure by Letters Patent is—

The manner in which I have arranged and combined the friction roller, and the tilting, or guide piece, with each other, and with the adjustments, for the purpose of causing the door to fall back, or to remain at rest in any position to which it may be opened beyond the point designated.

I do not claim the causing of a door to close by the action of a friction roller on the face of an inclined semicircular plane, when such semicircle does not consist of a tilting piece, turning upon a joint pin, for the purpose, and in the manner, herein fully made known.

WM. WILSON.

Witnesses:

THOS. P. JONES,  
WM. J. DONOHOO.