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D. H. SCHLAEGEL

DOOR OPERATING DEVICE

Filed Nov. 27, 1925

Fig. 1.

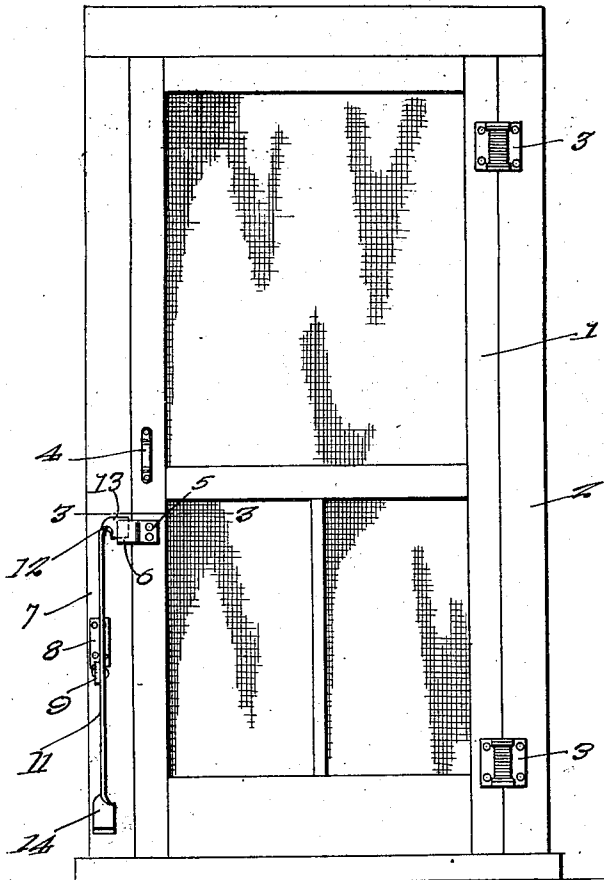


Fig. 2.

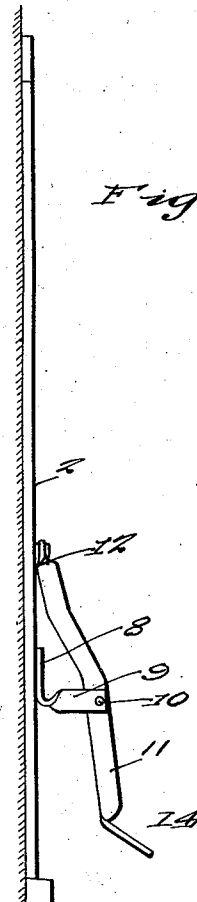
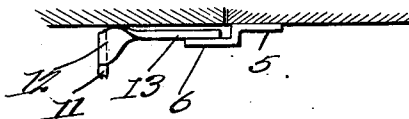


Fig. 3.



R. G. Thomas

D. H. Schlaegel,

INVENTOR

BY *Victor J. Evans*

ATTORNEY

WITNESS:

UNITED STATES PATENT OFFICE.

DANIEL H. SCHLAEGEL, OF WADENA, MINNESOTA.

DOOR-OPERATING DEVICE.

Application filed November 27, 1925. Serial No. 71,727.

The object of this invention is the provision of simple means actuated by foot pressure whereby to swing a door to open position, so that a person having both of his arms occupied may pass through the doorway without necessitating the use of his hands in opening the door, and also whereby the door may be opened in an easier and more expeditious manner than is ordinary.

To the attainment of the foregoing, the invention consists in the improvement as hereinafter described and definitely claimed.

In the drawings:—

Figure 1 is a front elevation illustrating the application of my improvement.

Figure 2 is a side elevation thereof.

Figure 3 is a sectional view on the line 3—3 of Figure 1.

Preferably, but not necessarily, my improvement is designed for use in connection with screen doors or with other doors which are attached to the casings by spring hinges.

Referring now to the drawings in detail, the numeral 1 designates a screen door, 2 the door casing, 3 the spring hinges which secure the door in the casing, and 4 the usual pull handle or knob for the door. In carrying out my invention I secure on a stile of the door below the pull element 4, a keeper 5. Preferably and as disclosed by the drawings, the keeper is in the nature of an angle plate, the straight end 6 whereof projecting beyond the edge of the door.

On the vertical trim 7 of the casing 2, at a suitable distance below the keeper 5, I secure the inner arm of an angle bracket 8. To the outer arm 9 of this bracket I pivot, as at 10, a bar 11. The bar 11 is rounded at a point adjacent to the center thereof, but has its ends straight, and the upper end is given a half twist, as at 12, and extended to provide a finger 13, that is disposed opposite

the projecting portion 6 of the keeper 5. The opposite end of the bar 11 is also given a half twist and is extended to provide what I will term a pedal 14. The pedal 14 is arranged at a downward inclination, and the finger 13 is normally contracted by the keeper so that the bar is swung to the position illustrated in Figure 2 of the drawing when the door is closed. It is merely necessary for a person desiring to pass through the doorway to press his foot on the pedal 14 which will swing the bar 11 in the direction of the casing 2. The finger 13 will thus be forcibly brought against the keeper 6 so that the door will be swung to open position. The bar 11 is so balanced with respect to its pivot that the fingered end 13 thereof is always in the path of contact with the keeper 6, so that when the door 1 is automatically swung to closed position the keeper 6 will contact with the said finger and arrange the device in initial operative position.

Having described the invention, I claim:—

Means for opening a door hinged in a casing by the pressure of the foot of a person approaching the door comprising an angle keeper secured to the one hinged side of the door and projecting therebeyond, an angle bracket fixed on the door casing below the keeper, a bar pivotally secured to the outer arm or angle bracket, said bar being bent in its upper extension at mid-point and at the pivotal point and the bends being opposite, the extremity of the upper extension having its end formed with a lateral flange providing a finger which is disposed to be at all times contracted by the keeper on the door, and the opposite lower end of the bar having a flat angularly disposed projection providing a foot pedal.

In testimony whereof I affix my signature.

DANIEL H. SCHLAEGEL.