J. M. BOUSQUET.

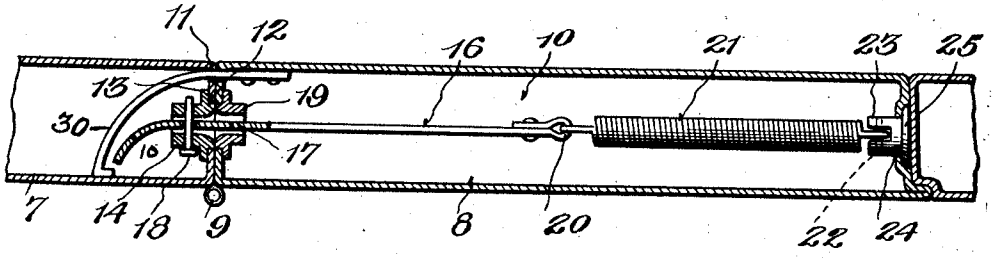
DOOR CLOSER.

APPLICATION FILED NOV. 13, 1917.

1,326,841.

Patented Dec. 30, 1919.

Fig. 1.



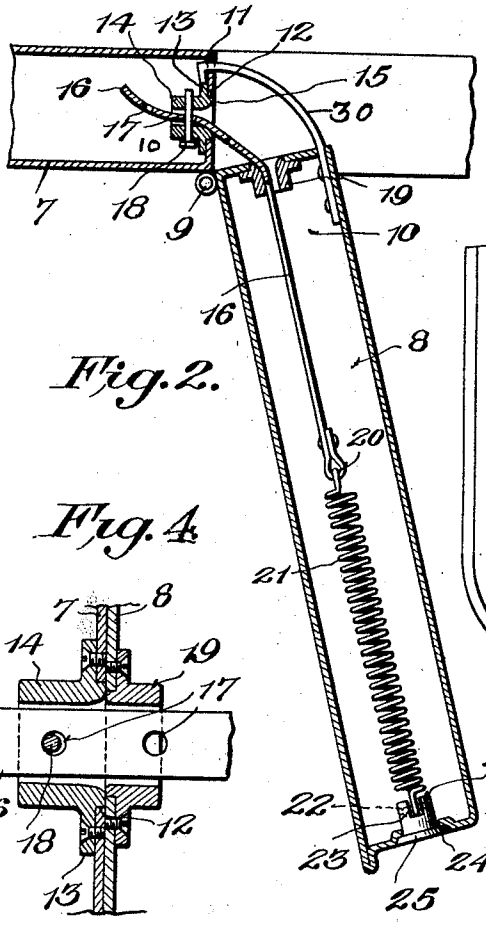


Fig. 2.

Fig. 3.

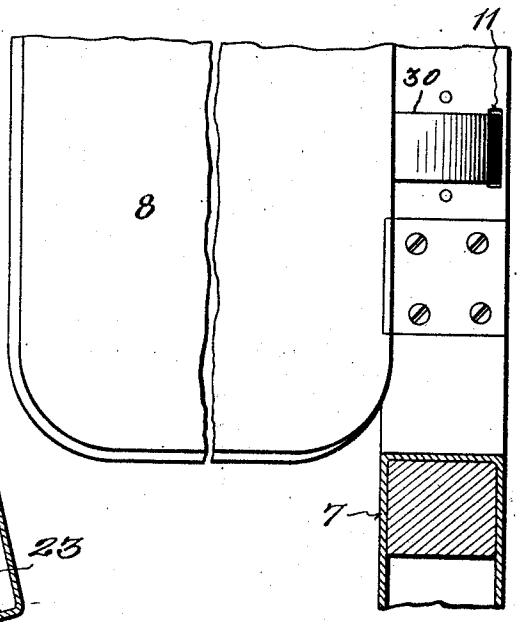


Fig. 4.

Witness

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DOOR-CLOSER.

1,326,841. Specification of Letters Patent. Patented Dec. 30, 1919.

Application filed November 13, 1917. Serial No. 201,811.

To all whom it may concern:

Be it known that I, JOSEPH M. BOUSQUET, a citizen of the United States, residing at Middlesex, in the county of Washington and State of Vermont, have invented certain new and useful Improvements in Door-Closers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to means for closing doors, and particularly to a device specially adapted for installation in association with a door of a motor-vehicle.

It is an object of the invention to provide a device of this kind that is simple in construction, direct in action, and easily adjusted to varying tension or pull on the door to be closed.

When read in connection with the description herein, the details of construction and arrangement of parts contemplated by the invention will be apparent from the accompanying drawings, forming part hereof, wherein embodiments of the invention are disclosed, for purposes of illustration.

While the disclosures herein now are considered to exemplify preferable embodiments of the invention, it is to be understood that it is not the intention to be limited necessarily thereto in interpretation of the claim, as it is obvious that changes within the limits of the claim can be made without departing from the nature and spirit of the invention.

Like reference-characters refer to corresponding parts in the views of the drawings, in which—

Figure 1 is a horizontal sectional view through the door and a portion of the body of a motor-vehicle, the door being in closed position;

Fig. 2 is a similar view, the door being open;

Fig. 3 is an elevation of one side of the door-frame;

Fig. 4 is a view of means for adjustably connecting the strap to the body of the vehicle.

Having more particular reference to the drawing, 7 designates the side body and 8 the door of a motor-vehicle swingably mounted on the body by hinges 9 in the usual manner. The part of the body that forms the door-frame or its equivalent may be of hollow-casing form; or, if it is solid, it has a recess 10 therein. In the wall abutting the edge of the door is an opening 11 near the side and an opening 12 located in an approximately central position between the sides of the body.

A plate or flange 13 is secured to the body, with a sleeve portion 14 projecting into the opening 12, there being an opening or passage 15 through the flange and sleeve leading to the interior of the body or to the recess 10. The opening 15 is arranged to receive a flexible member 16, such as a strap, which is formed with a series of holes 17, any one of which is arranged to receive a pin 18 passed through the sleeve portion 14.

The flexible member 16 extends into the interior of the door through a guide 19 set in its hinged edge that abuts the body, and its end in the body is formed with a loop 20, which connects it with a spring 21.

The spring may be of coil form, as shown by Figs. 1 and 2, in which case its end opposite to the flexible member may be connected with the inner side of the door by a pin 22 passed through the limbs 23 of a slotted sleeve 24 held in place by a flange portion 25 bearing against the face of the door-edge.

When the door is swung in opening direction, the flexible member 16 is drawn outwardly through the guide 19 against the tension of the spring, and the spring is of sufficient power to return the door to closed position when released, drawing the flexible member inwardly of the door during this movement.

In order to prevent injury to the portion of the flexible member outside of the door when the door is open and to prevent the soiling of the garments of those passing through the doorway, a protector 30 is provided. The protector is a member curved substantially on the radius of the swing of the door, one end is secured to the hinge edge of the door, the member is arranged to extend through the opening 11 into the body, as the door is opened it moves outwardly through the opening 11 and covers the flexible member, and it returns to housed position in the body as the door is closed.

The tension of the spring may be altered by withdrawing the pin 18 and replacing it in another of the holes 17 of the flexible member.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

In combination with a door and a member on which it is hingedly mounted, a door-closing means comprising a spring located in the door, a flexible connection extending from one end of said spring and connected to said member, a guide for said flexible connection at the hinge side of the door arranged to permit said connection to move therethrough, and a fastening for the other end of said spring including a flange bearing against the face of the door edge opposite to the hinged side, a slotted sleeve extending therefrom into the door in which the end of the spring is disposed, and a pin passed through said sleeve and the spring end.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH M. BOUSQUET.

Witnesses:

TIMOTHY E. CALLAHAN,
WILLIAM N. THERIAULT.