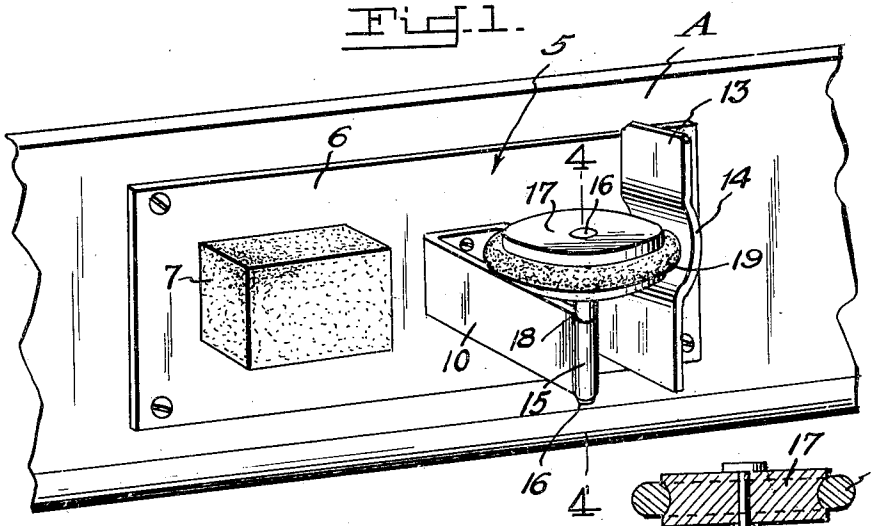
Feb. 14, 1950 F. JEROUSEK 2,497,611

DOOR CHECK

Filed Sept. 13, 1946

Fig. 1.



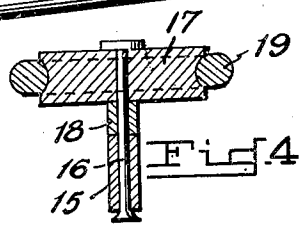
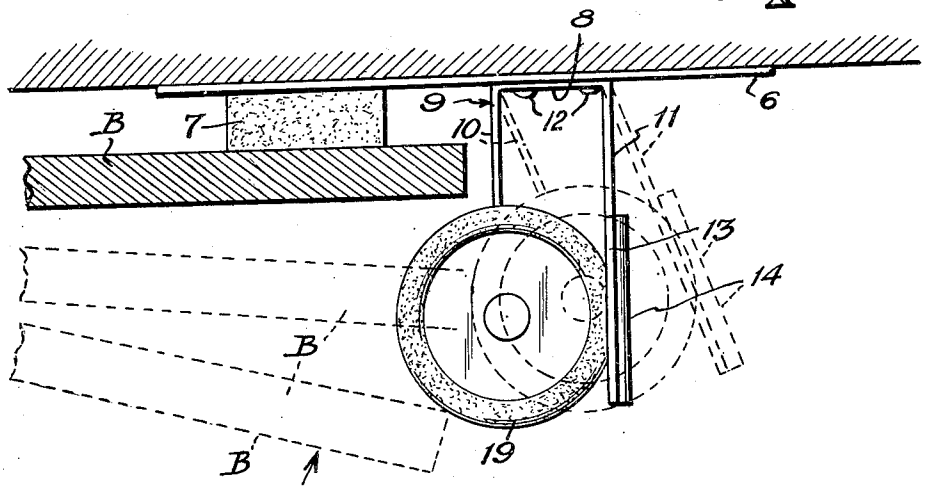


Fig. 4.

Fig. 2.



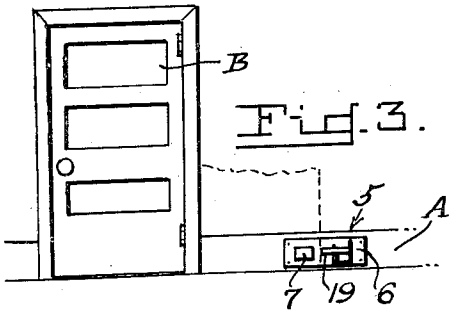


Fig. 3.

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DOOR CHECK

Frank Jerousek, Fullerton, Md.

Application September 13, 1946, Serial No. 696,836

4 Claims. (Cl. 16—86)

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This invention relates to door checks, such as are employed in holding doors in opened position and which are especially desirable when cleaning rooms to hold the door in fully opened position in spite of draughts or other tendencies of the door to swing closed.

An important object of the invention is to provide a unitary fixture which can be readily applied to the usual base board of a wall for the purpose of positively holding a door in fully opened position, without any likelihood of the door overcoming the effect of the holder under the influence of draughts or other causes.

Another object of the invention is to provide a door check constructed of but a few parts and capable of being manufactured and retailed at a reasonable price.

Various other objects and advantages of the invention will become apparent to the reader of the following description.

In the drawing:

Figure 1 is a fragmentary perspective view showing the holder applied to a base board;

Figure 2 is a horizontal sectional view through a door and looking downwardly in plan on the holder;

Figure 3 is a small side elevational view showing the relationship of the holder to a door;

Figure 4 is a fragmentary vertical sectional view taken on line 4—4 of Figure 1.

Referring to the drawing, reference character A denotes a base board of a wall, while reference character B denotes a door to be held by the improved door check, generally referred to by numeral 5.

The door check consists of a rectangular-shaped plate 6 having secured on its outer face and adjacent one end, a block 7 of some resilient material, such as rubber.

Toward the opposite end of the plate 6 is secured the bight portion 8 of a resilient U-shaped bracket, generally referred to by numeral 9, the leg portions 10 and 11 of which are horizontally disposed in a direction outwardly of the plate 6, suitable rivets or the like 12 being employed to secure this bracket in fixed position on the plate 6.

The leg 11 is somewhat longer than the leg 10 and has an upstanding spring finger 13 at its outer end, curved outwardly at its lower portion as at 14 and at about the position against which the roller, to be described hereinafter, engages.

The leg 10 is rolled at its free end to provide a barrel or bearing 15 for receiving a vertically disposed shaft 16, which carries a disk or roller 17

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at its upper end and between this roller 17 and the bearing 15 is a spacing collar 18.

The periphery of the roller 17 is circumferentially grooved to receive an endless resilient tire 19, preferably of rubber.

As can be seen in Figure 2, the tire 19 of the roller 17 is normally spaced slightly from the curved portion of the finger 13.

When the door B is swung from the closed position shown in Figure 3 to a fully opened position, in pursuing this motion, the vertical free edge of the door engages the tire 19 of the roller 17 and exerts force against the roller as it rotates the same, forcing the roller against the spring finger 13 as it moves to a position behind the roller, and at this position, the roller is freed and the spring arm 10 returns the roller to a position, as shown in Figure 2 to define a blockade or obstacle against the return of the door B, without the employment of manual effort.

The door is swung to closed position by engaging the roller in substantially the same manner and urging the same against the spring finger 13, the finger 13 of course offering resistance and requiring some human effort to overcome.

Obviously, this device can be used for other closures, besides doors and it can be used on many types of machines for holding levers in set position.

While the foregoing description sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention, what is claimed as new is:

1. A door check comprising a horizontally disposed U-shaped bracket of spring material, a door engageable buffer carried by one leg of the U-shaped bracket and a backing plate rising from the other leg of the bracket and being in the path of said buffer when said buffer is engaged and displaced by the edge of a door.

2. A door check comprising a horizontally disposed U-shaped bracket of spring material, a door engageable buffer carried by one leg of the U-shaped bracket and a backing plate rising from the other leg of the bracket and being in the path of said buffer when said buffer is engaged and displaced by the edge of a door, said plate being formed with an offset for receiving a portion of the buffer.

3. A door check comprising a horizontally disposed U-shaped bracket of spring material, a

door engageable buffer carried by one leg of the U-shaped bracket and a backing plate rising from the other leg of the bracket and being in the path of said buffer when said buffer is engaged and displaced by the edge of a door, said buffer being in the form of a revolubly mounted wheel.

4. A door check comprising a horizontally disposed U-shaped bracket of spring material, a door engageable buffer carried by one leg of the U-shaped bracket and a backing plate rising from the other leg of the bracket and being in the path of said buffer when said buffer is engaged and displaced by the edge of a door, said buffer carrying leg portion being formed at its free

end to provide a bearing, said buffer being in the form of a wheel provided with an axle, said axle being journaled in said bearing.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
679,400	Smith	July 30, 1901