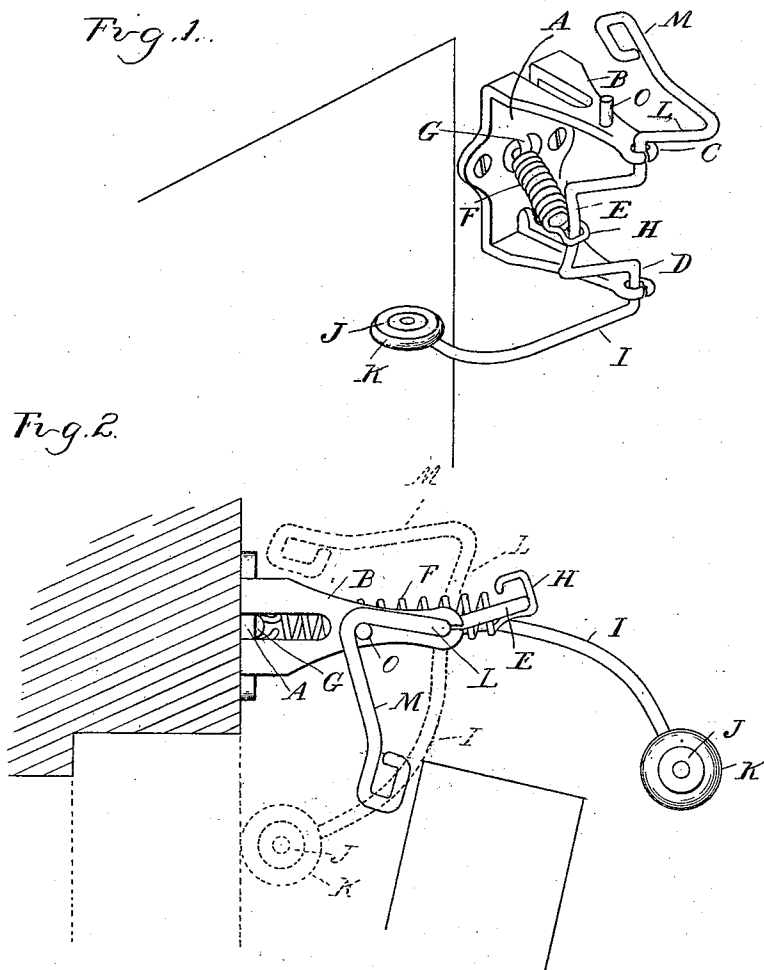


(No Model.)

G. W. MALLORY.
DOOR CHECK.

No. 512,202.

Patented Jan. 2, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. MALLORY, OF GUILDS, CANADA.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 512,202, dated January 2, 1894.

Application filed April 10, 1893. Serial No. 469,734. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MALLORY, a subject of the Queen of Great Britain, residing at Guilds, in the county of Kent and Province of Ontario, Canada, have invented certain new and useful Improvements in Door-Checks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a new and useful improvement in door checks, and it consists in the construction and arrangement of parts hereinafter described and definitely pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved device showing it as in use. Fig. 2 is a top plan view thereof, showing the parts in full lines in position when the door is open and in dotted lines when in the position they assume when the door is closed.

A is the wall plate having the outwardly extending arms B at each end, the whole forming a suitable bracket. At the outer end of these arms are bearings C for the crank shaft D. These bearings are preferably formed by bifurcating the ends of the arms B, placing the shaft in position therein and then bending over the ends of the bifurcation, the bracket being made of malleable iron.

E is the crank of the shaft D, extending between the two arms.

F is a spring preferably a coiled spring connected at one end to a bar G, centrally of the wall plate, and at the other end provided with a squared hook H adapted to engage over the crank E of the shaft D.

I is a presser arm having the wheel J journaled at its end, which wheel is preferably provided with a rubber band K.

L is a crank arm at the other end of the crank-shaft D, terminating in a finger M, which extends at substantially right angles to the crank arm L.

The parts being thus constructed their operation is as follows: The door being open and the parts being as shown in full lines in Fig. 2, the crank E will be thrown past the center, and the tension of the spring will tend

to hold it in that position against the stop O, with which the crank L engages. Now, as the door closes it will strike the finger M, as shown in Fig. 2, rocking the crank E inwardly past its central position, and allowing the spring to act upon the opposite side of said central position, which will cause the presser arm I to be thrown inward against the door and quickly shut it, holding it in its closed position by the tension of the spring. The opening of the door will throw the presser arm out and lock the finger M into its operative position, the parts being locked by the action of the spring as described.

The squared hook H is of such width that the rocking of the crank will roll across the hook instead of turning in it with friction and prevents wearing of the parts.

My device is especially intended for use with screen doors, which it has been found often warp and leave an open space at top and bottom, through which the flies may enter. It also frequently happens that where the tension of the spring is upon the spring door, that a draft through the house will open the door, with the same result. This obviates this difficulty and the spring hinge usually employed on such doors may be omitted.

What I claim as my invention is—

1. In a door check, the combination of a bracket adapted to be secured upon a door casing, a spring actuated shaft, journaled in the bracket, a pressure arm extending from said shaft, and a finger or trigger extending from said shaft at an angle to the pressure arm, for actuating the pressure arm upon the inward movement of the door, substantially as described.

2. In a door check, the combination of a bracket adapted to be secured upon a door casing, a crank shaft journaled in said bracket, a spring connected to the crank, a presser arm extending from one end of the shaft, a finger or trigger from the other end and a stop to limit the movement of the shaft in one direction, the parts arranged and operating substantially as and for the purpose described.

3. In a door check, the combination of the bracket having arms B, a crank shaft jour-

naled in the end of said arms, a spring F having the broad hook H at one end connecting with said crank and connected at the other end to the bracket, of the curved presser arm
5 I at one end of the crank shaft, the cushioned roller J thereon, the arm L at the other end of the shaft, the finger M thereon, the stop O, with which the arm L is adapted to engage,

the parts arranged and adapted to operate as and for the purpose described. 10

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

GEORGE W. MALLORY.

Witnesses:

JAMES WHITEMORE,
M. B. O'DOHERTY.