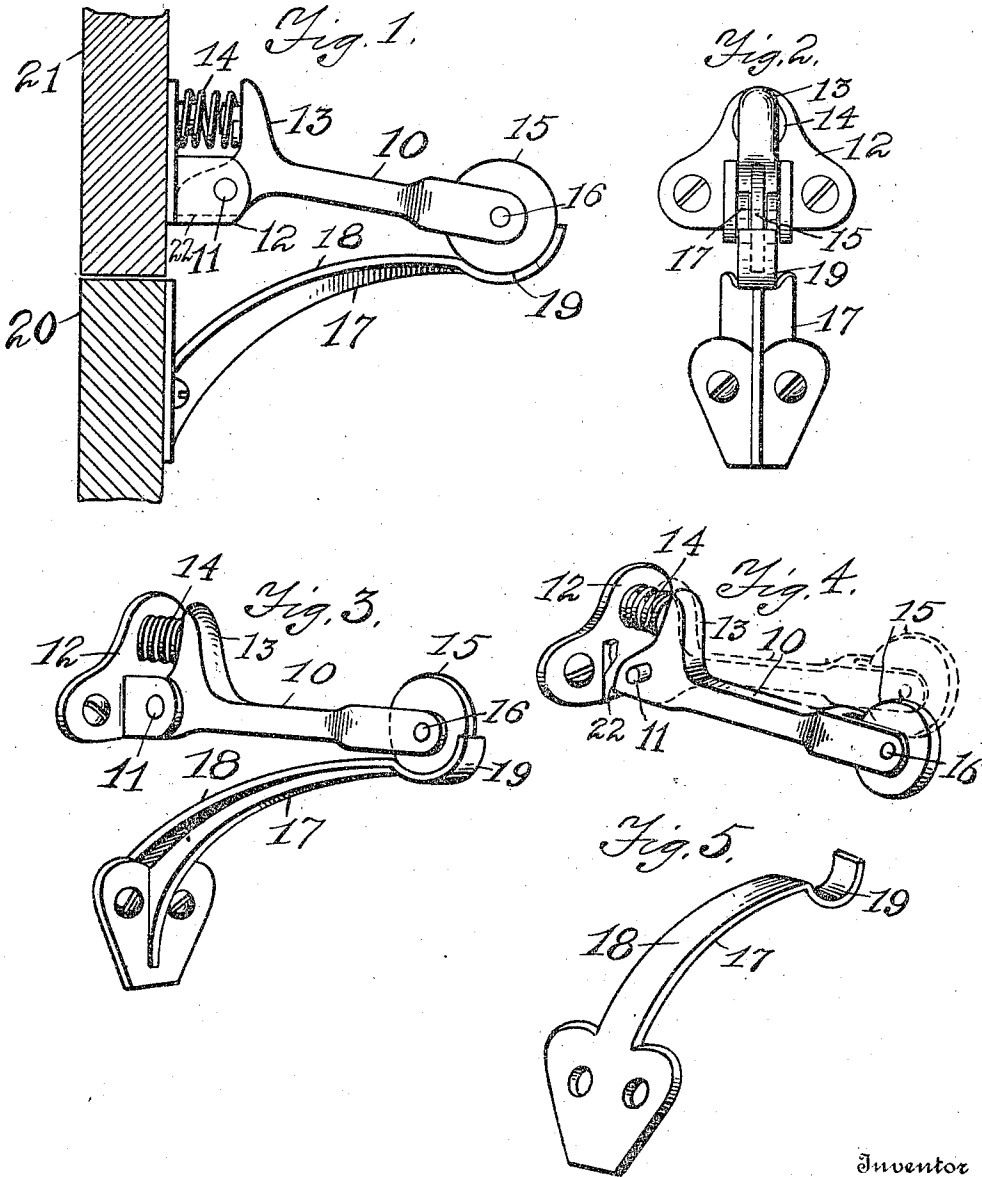


O. L. ASKERBERG.
DOOR CHECK.
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1,237,602.

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Witnesses
E. O. Hultgren.
H. A. Sandberg.

Inventor
Otto L. Askerberg
By S. Arthur Baldwin
Attorney

UNITED STATES PATENT OFFICE.

OTTO L. ASKERBERG, OF JAMESTOWN, NEW YORK.

DOOR-CHECK.

1,237,602.

Specification of Letters Patent. Patented Aug. 21, 1917.

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To all whom it may concern:

Be it known that I, OTTO L. ASKERBERG, a citizen of the United States, residing at the city of Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Door-Checks, of which the following, taken in connection with the accompanying drawings, is a specification.

The invention relates to checks or catches for doors and particularly for light doors like screen doors, and the improvement consists in providing a simple and efficient check or stop for the door which acts automatically permitting the door to be sprung freely therefrom in opening, yet holding the door with sufficient tenacity to prevent its opening or getting out of line when closed; and the invention consists in the novel features and combinations hereinafter set forth and claimed.

In the drawings, Figure 1 is a side elevation of the door check in the closed position attached to the door and casing. Fig. 2 is a front elevation showing the construction and arrangement of the parts. Fig. 3 is a perspective view of the door check in the closed position. Fig. 4 is a perspective view of the casing portion of the door check with the bracket lug broken away; and Fig. 5 is a perspective view of the engaging arm on the door.

Like numerals of reference refer to corresponding parts in the several views.

The numeral 10 designates a spring arm which is hinged at 11 to a bracket 12 attached to the casing 21, and has the lug 13 extending therefrom engaging the coil spring 14 between said lug 13 and the face of the base plate of the bracket 12, extensions being provided within the spring 14 on the lug 13 and bracket 12 to hold the spring in position.

The spring arm 10 has a roller 15 revolvably mounted on the outer end, said outer end being preferably forked to support a pin 16 crosswise to revolvably mount said roller 15 thereon.

The engaging or socket arm of the door check designated by the numeral 17 is preferably attached to the front upper corner of the door 20 and has the curved face 18 for the roller 15 to travel upon as the door is opened or closed. The curved end 19 fits the periphery of the roller 15 and is slightly below the outer surface of the curved face 18

to form a socket or catch for the roller 15 so that when the resiliently supported roller 15 rolls up the face 18 of the arm 17 it drops into the socket 19 at the outer end of the arm 17 thereby holding the door 20 firmly in position yet so holding said door that it can be easily opened, a light pull on the door 20 being sufficient to immediately spring the roller 15 out of the socket 19 and along the curved face 18 of the socket arm or bracket 17.

The bracket 12 for the spring roller arm 10 is attached to the door casing 21 over the front upper corner of the door 20 in such position as to cause the roller 15 to easily travel upon the curved surface 18 and be sprung upward thereby into the socket 19. The socket or curved end 19 is only sufficient to releasably hold the roller 15. The arm 17 is made in the bracket shape to hold firmly against the spring roller arm 10.

The spring roller arm 10 is shaped at the end adjacent the bracket 12 with a portion 22 which projects inward from the hinging pin 11 a sufficient distance to form a stop against the plate 12 when the arm 10 drops down thereby limiting its downward movement, which downward movement is only sufficient to strike the incline of the face 18 of the socket arm 17 which moves the roller arm 10 upward as shown in dotted line in Fig. 4 in comparison with the lower position to which said arm 10 drops when released from the socket arm 17.

The curved end 19 of the socket arm 17 is preferred both to form the socket as hereinbefore described and also to form a stop when the end is extended up a sufficient distance to permit the roller 15 to strike against said upwardly turned end. This arrangement of the door check stops the door and prevents its slamming, since the spring roller arm 10 as it rolls up the incline 18 gradually brings the door to a stop so that in case the door is shut with violence as by the wind the gradual stop of the door coupled with the turned up end 19 checks and stops the door at the desired point.

I claim as new:—

In a door check the combination with the door and casing, of a bracket having spaced lugs thereon, an arm hinged between said lugs and provided with a projecting inner end housed between said lugs to form a stop against said bracket and a sidewise projecting lug extending substantially parallel with

the bracket, a coil spring between said side-wise projecting lug and said bracket, the outer end of the arm being forked, a roller revolubly mounted on the forked outer end
5 of said arm, and a stiff bracket arm on the door having a broad flat curved face with a socket at the outer end to receive said roller on said curved face and releasably hold said roller in said socket, said bracket arm further

having a longitudinal rib on its opposite face.

In testimony whereof I have affixed my signature in the presence of two witnesses.

OTTO L. ASKERBERG.

Witnesses:

H. A. SANDBERG,
A. M. KETTLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."