(No Model.)

E. SMALLEY.

DOOR CHECK.

No. 346,235. Patented July 27, 1886.

Fig. 1.

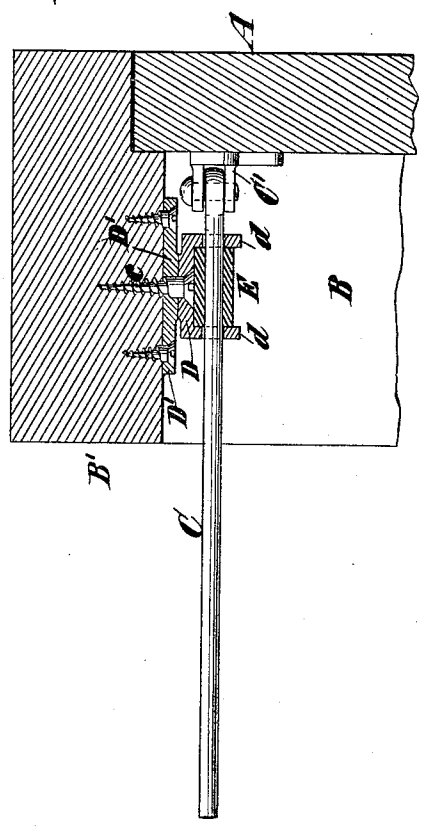
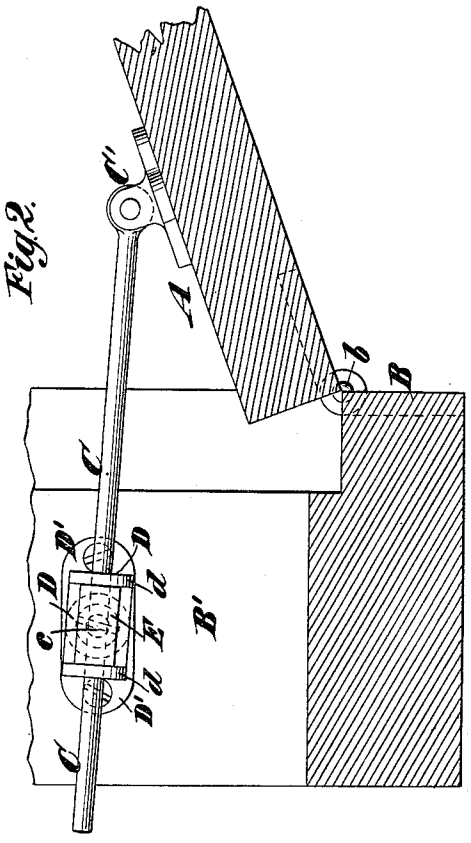


Fig. 2.



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UNITED STATES PATENT OFFICE.

EDMUND SMALLEY, OF SPARKILL, NEW YORK.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 346,235, dated July 27, 1886.

Application filed June 5, 1886. Serial No. 204,202. (No model.)

To all whom it may concern:

Be it known that I, EDMUND SMALLEY, of Sparkill, in the county of Rockland and State of New York, have invented a new and useful Improvement in Door-Checks, of which the following is a specification.

My invention relates to check devices for holding a swinging part in any desired position relatively to a fixed part, and which comprise a rod and a block or sleeve of india-rubber, through which the rod is free to slide, subject to the resistance due to friction.

The invention consists in a novel construction of door-check, hereinafter described, and particularly pointed out in the claim, and which comprises a rod hinged at one end to an eye or bracket, whereby it may be attached to a door forward of its hinges, a block or sleeve of india-rubber, through which the rod may slide, subject to the resistance due to friction, and a pivotal box or frame having lugs or ears projecting in the same direction at opposite ends of its face, through which the rod passes, and between which the block or sleeve is held against endwise movement, whereby the rod is guided independently of the block or sleeve, and the block or sleeve is left unconfined about the rod.

In the accompanying drawings, Figure 1 represents a vertical section through the upper portion of a door and door-casing, showing my improved door-check as applied thereto; and Fig. 2 is an inverted plan of the upper portion of the casing and door-check, and a horizontal section of the upright portion of the casing and a part of the door.

Similar letters of reference designate corresponding parts in both figures.

A designates the door, which is attached by hinges *b* to the upright portion B of the door-casing, and B′ designates the top cross portion of the casing, which extends between the two upright portions.

The essential elements of my invention are a straight rod, C, which is preferably round, and may be made of a piece of round wire of the proper length and thickness, a box or frame, D, which is pivotally connected with the top portion, B′, of the casing, and a sleeve or block, E, of soft india-rubber, through which the rod C may slide. The rod C is hinged at one end to an eye or bracket, C′, whereby it may be attached to the door A at its upper portion, and at a point forward of its hinges *b*, and the pivotal frame is attached to the upper portion, B′, of the casing by a single screw, *c*. I have also here shown a base-plate, D′, which is secured to the portion B′ of the casing above or behind the pivotal box or frame D, and which serves as a wearing-plate for the box or frame. Said box or frame D is constructed with ears or projecting lugs *d*, which are bored to receive the rod C, and which receive and confine between them the soft india-rubber block or sleeve E. The rod C is guided by the ears or bearers *d* of the box or frame D, and the hole in the block or sleeve E through which the rod is received should be of a size to fit snugly upon the rod, and to hug the rod by the contractile elasticity of the sleeve. The box or frame D, being pivoted to the casing, will turn freely upon its pivot, to accommodate the block or sleeve E and the box or frame D to the varying positions which the rod C may assume as the door is swung open or closed.

The block or sleeve E, by reason of the frictional resistance which it offers to the sliding movement of the rod C through it, will hold the door in any position in which it may be placed, and will at the same time permit the door to be opened or closed by the hand when a sufficient force is applied to overcome the frictional resistance to the sliding of the rod through the block or sleeve.

By the ears or lugs *d* the rod C is guided independently of the block or sleeve, and the rubber is held against endwise displacement, and is left unconfined about the rod.

What I claim as my invention, and desire to secure by Letters Patent, is—

The door-check herein described, consisting of the rod C, hinged at one end to an eye or bracket, whereby it may be attached to a door forward of its hinges, the block or sleeve E, of india-rubber, through which the rod may slide, subject to the resistance due to friction, and the pivotal box or frame D, having the ears *d*, through which the rod passes, and between which the block or sleeve is held against endwise movement, whereby the rod is guided independently of the block or sleeve, and the block or sleeve is left unconfined about the rod, substantially as herein described.

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