

(No Model.)

G. A. HOWARD, W. H. HULL & C. S. BLACK.

DOOR CHECK.

No. 373,774.

Patented Nov. 22, 1887.

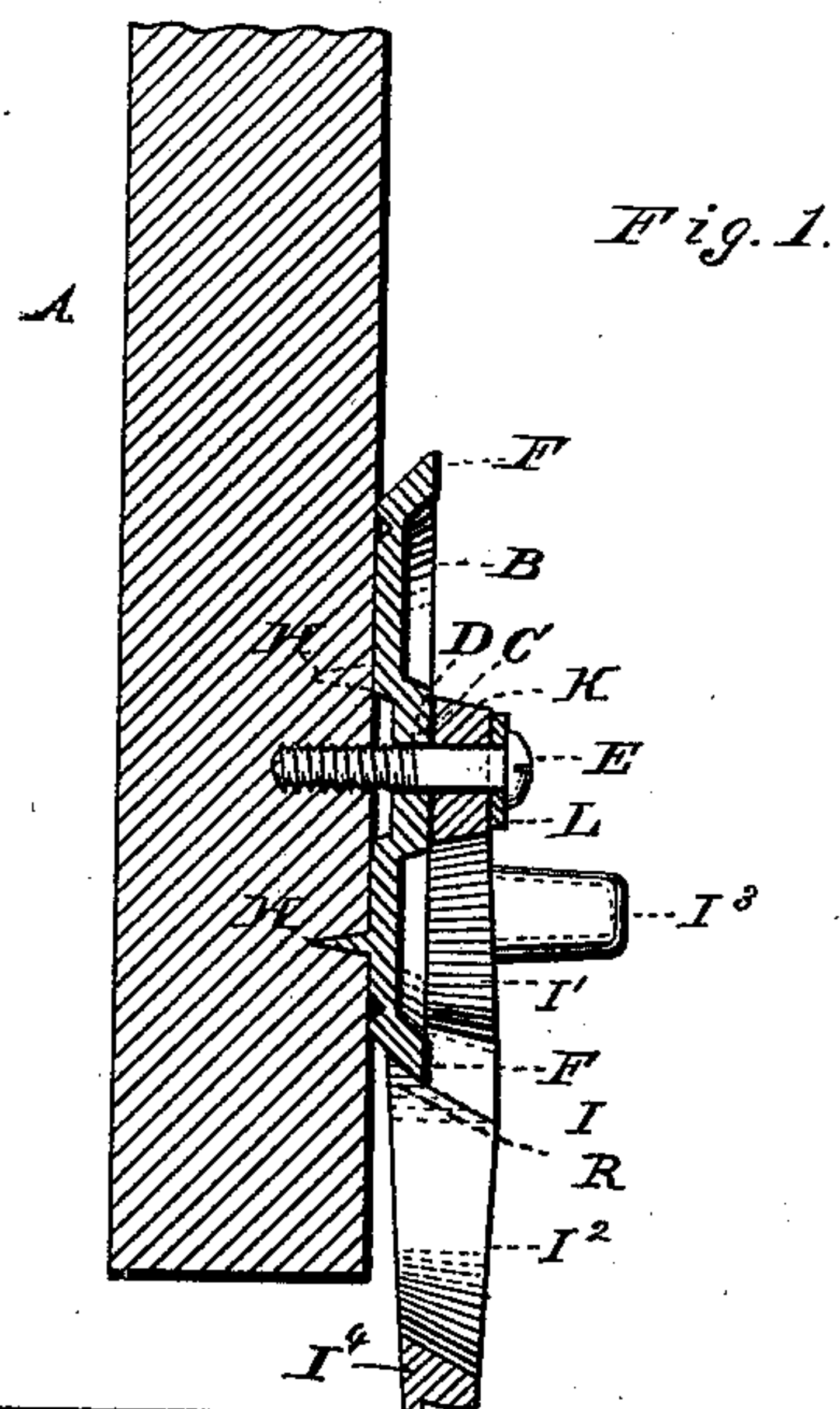
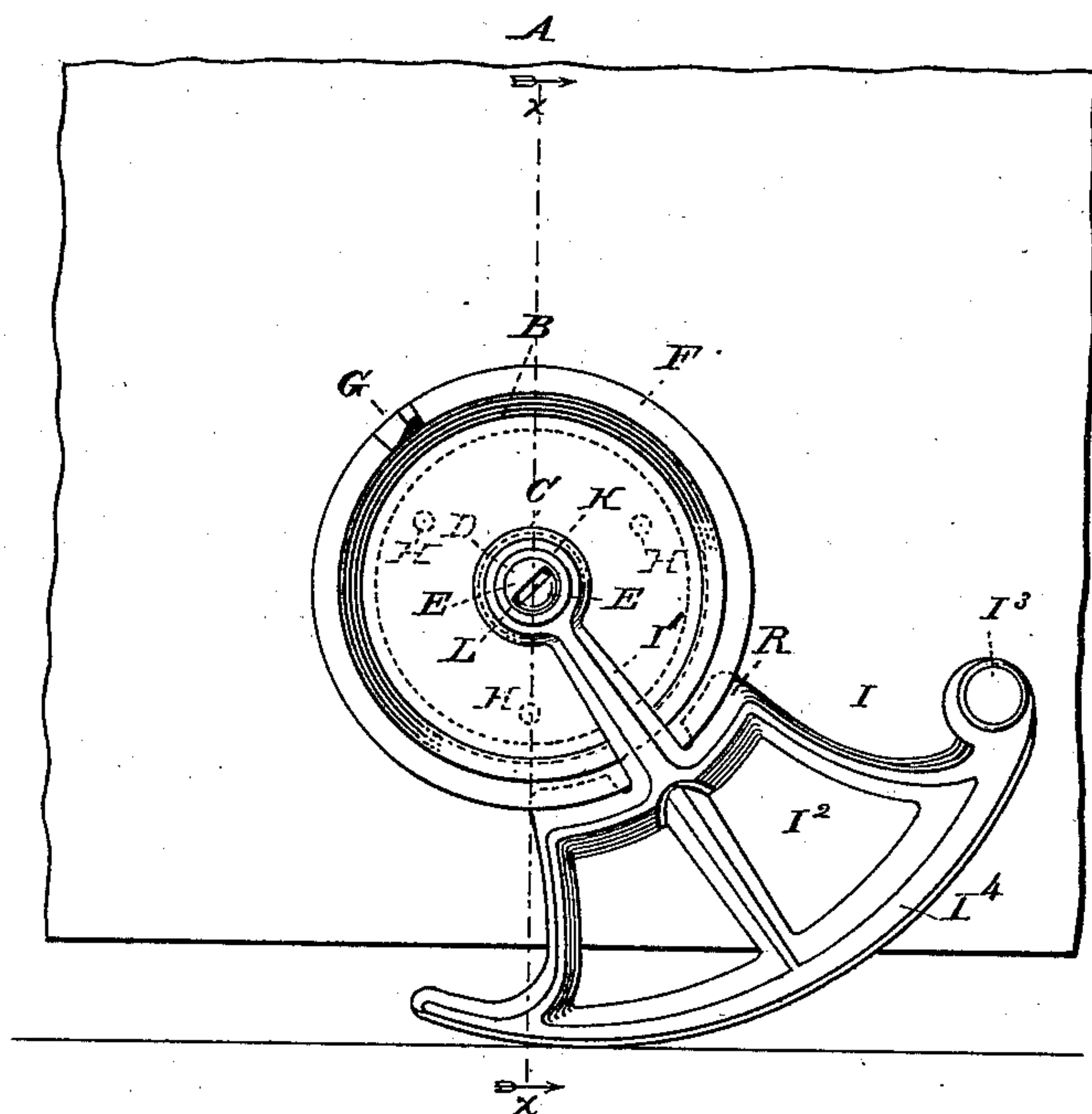


Fig. 2.



WITNESSES

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DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 373,774, dated November 22, 1887.

Application filed October 24, 1885. Serial No. 180,858. (No model.)

To all whom it may concern:

Be it known that we, GEORGE A. HOWARD, WILLIAM H. HULL, and CHARLES S. BLACK, citizens of the United States, residing at Buchanan, in the county of Berrien and State of Michigan, have invented certain new and useful Improvements in Door - Checks; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a vertical section taken where line $x x$ is marked on Fig. 2. Fig. 2 is a front view.

Our invention relates to door-checks; and it consists in the construction and novel combination of parts, as will be hereinafter fully described, and pointed out in the claim.

Referring by letter to the accompanying drawings, A designates the door, to the inner face of which, near its bottom, the improved door check and fastener is secured.

B designates an annular plate of metal—such as malleable iron, or any other metal, material, or compound which is sufficiently durable and suitable for the purpose. On its front face the plate B is provided with a central raised boss, C, the latter being provided with a central screw-hole, D, for the passage of the securing-screw E. The edge of the annular plate B is provided with an integral flange, F, inclined outwardly from the center of the plate, as shown in Fig. 1, and having upon it a stop-lug, G, situated at a suitable point above the center of the plate. On its rear face the plate B is provided with three pointed spurs, H, which enter the face of the door when the plate B is in place, and prevent the plate B from turning on the screw E.

I designates the check-lever, which comprises the lever-arm I' and the integral sector-frame, I², with the finger-piece I³. At its inner end the lever-arm I' is provided with an eye, K, which rests against the face of the central boss, C, and turns upon the securing-screw E when the check-lever I is operated.

The curved binding-bar I⁴ of the sector-frame I² is eccentric to the screw E, so that the lever I has to be turned a less distance to

increase the binding force on the floor than if the curved bar were concentric therewith.

A washer, L, is interposed between the head of the screw E and the eye K of the lever-arm I' to prevent wear of the face of the eye K. This device serves as a check to hold the door open at any angle or place required, and also as a lock to secure the door when closed. It may also be used as a fastener for window-blinds and other devices, where applicable. It is always attached and ready for use, and is superior to the bolts now commonly used. It is neat in appearance, is ornamental, and prevents the door from slamming.

The shorter inner curved rib, R, of the check-lever I has its inner face beveled or inclined from the front rearwardly, so that it will engage and fit the beveled edge of the plate B, and thereby prevent twisting or straining upon the securing-screw.

The corresponding bevels of the bar R and flange F prevent the lever and sector-frame from working outwardly from the plate B and door, even should the screw E be loose, as the said bevels will direct the sector-frame inward or toward the door. The length of the bar R causes the bearing of the lever and sector-frame to be against the edge of the plate B and not on the screw E, so that said lever and frame cannot break said screw and become detached from the door.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

In a door-check, the combination, with the circular plate B, provided with the central perforated boss, C, the securing-points H on its rear surface, the integral rim flange F, standing outward from the center of the plate, and the stop-lug G at a proper point on said flange, of the lever I, provided with the eccentric curved binding-bar I⁴, the bar R, inclined to correspond and fit upon the flange F, and the finger-piece I³, all constructed and arranged substantially as and for the purpose specified.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE A. HOWARD.

WILLIAM H. HULL.

CHAS. S. BLACK.

Witnesses:

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