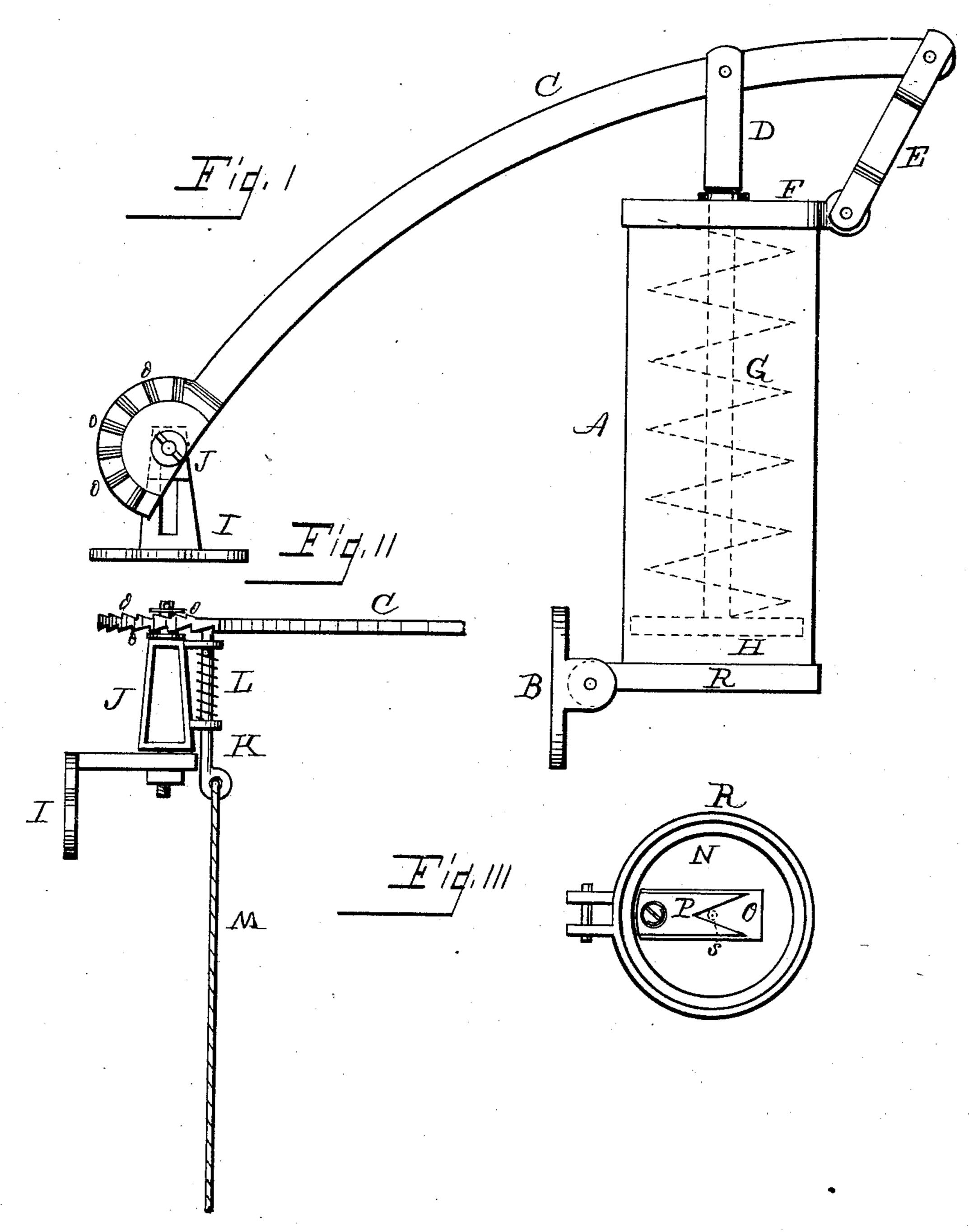
## J. MERREDITH.

DOOR CHECK.

No. 359,223.

Patented Mar. 8, 1887.



Witnesses Loopeld Leibeld Louis & Rubold

Inventor John Mercecith By Thi Attorney B. Piekering

## United States Patent Office.

JOHN MERREDITH, OF DAYTON, OHIO, ASSIGNOR TO JOHN G. SPENGLER, OF SAME PLACE.

## DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 359, 223, dated March 8, 1887.

Application filed June 28, 1886. Serial No. 206,557. (No model.)

To all whom it may concern:

Be it known that I, John Merredith, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of 5 Ohio, have invented a certain new and useful Improvement in Door-Checks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it apper-10 tains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in 15 door-checks, the several features of which will

be fully hereinafter set forth.

The objects are to produce as nearly as possible a uniform pressure against the door, and by an adjusting device hold the door at differ-20 ent positions. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure I is a top view or plan of the doorcheck. Fig. II is a side view of the adjusting 25 device. Fig. III is an inner view of the lower

cap.

Like letters designate like parts through-

out the several views.

The door-check in many features is like 30 those in use.

A is a tube, to the top of which is screwed the cap F and to the bottom the cap R. In the center of the top cap is an orifice for the

piston-rod D, and on the edge of the same is 35 an ear, to which the link E is attached.

To the upper end of the piston-rod is pivoted the arm C, and the piston-head H is attached to the lower end. To make the piston work tightly, it is packed with leather in the 40 usual manner. The dotted lines at G show the position of a spiral spring, which bears against the piston-head and the cap. The link E connects the arm C to the cap. The fastening-plate B is pivoted to ears of the 45 lower cap. This plate is fastened by woodscrews to the facing over the door, and on said plate the cylinder freely moves. The fastening-plate I is attached to the door. To the face of this fastening is attached the stud J, 50 the lower threaded end occupying a slot of the | does not admit of much change of position as 100

fastening-plate, and is secured by a nut. Projections of this stud support the dog K. The upper end of this stud is pivoted in the arm C, and the pivot is secured by a pin over a washer. The end of the arm C is provided on 55 its upper and lower surfaces with a series of notches, o, which are engaged by the aforesaid dog. The spiral spring L holds the dog in engagement with the circular notched end of arm This holds the arm in a fixed relation to 60 the fastening I. This device serves to hold the door open in different positions. The object of the two series of notches o o is the provision for doors opening right and left, in which case the stud is reversed on the arm.

Fig. III is an inner view of the lower cap, exhibiting the air-valve. In the center is a small orifice, s, indicated by a circular dotted line. Over this is placed a piece of leather, O, and on this leather is placed the notched brass 70 plate, and these parts are attached to the cap by a screw. The use of this valve is to admit air to the cylinder when the piston is moved, and the admitted air serves as a cushion in the movement of the piston as directed by the 75

spiral spring or inwardly.

The fastening-plates supporting the arresting device are attached as aforesaid, and the operation is thus: The door is held open by the arm, and if the door is closed by the hand 80 or by the wind, a rapid movement is prevented by the action of the spiral spring, which arrests the movement of the arm, and consequently the door, and a slamming is thereby prevented, and injury to the door or glass is 85 thereby prevented. The relation of the arm is such to the link and piston-rod that when the door is closed the arm and link are brought so near on a line that the force of the spring exerted on the arm is slight compared with 90 the resistance of the spring, and in this manner the force of the spring as affecting the arm is somewhat equalized. The relative position of the stud to the operative arm is effected by the dog carried by said stud engag- 95 ing one of the series of notches on the end of the arm. The dog is drawn out of engagement by the cord M when it is desirable to change the position of the door. This device

to the door, but serves for a limited adjustment of the position thereof.

What I claim, and desire to secure by Let-

ters Patent, is—

5 1. In a door-check, the combination of the hollow cylinder A, the spring-actuated piston with the arm C, pivotally attached to said cylinder-cap, link E, piston-rod D, fastening I, and adjustable stud J, with spring-actuated to dog K, substantially as set forth.

2. The combination of the arm C, having a series of notches, o, on the upper and lower

faces of the outer end thereof, the stud J, carrying the dog K, and fastening I, to hold the door open in different positions, substantially 15 as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN MERREDITH.

Witnesses:

B. PICKERING,

B. A. PICKERING.