

A. A. TERRY.
DOOR STOP.

APPLICATION FILED OCT. 27, 1903.

NO MODEL.

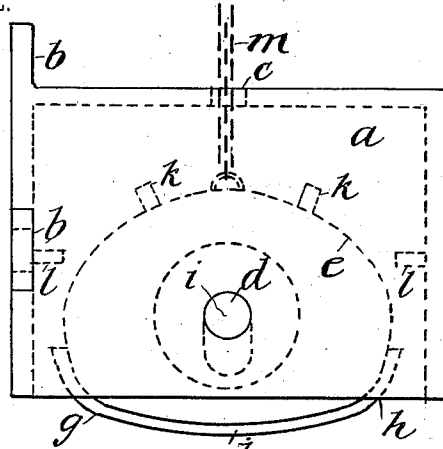


Fig. 1

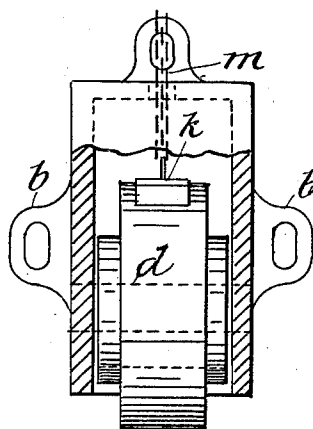


Fig. 2

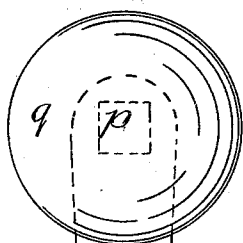


Fig. 3

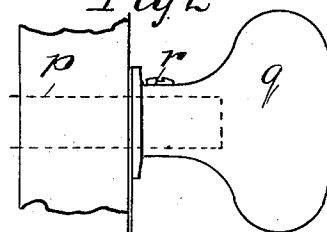


Fig. 4

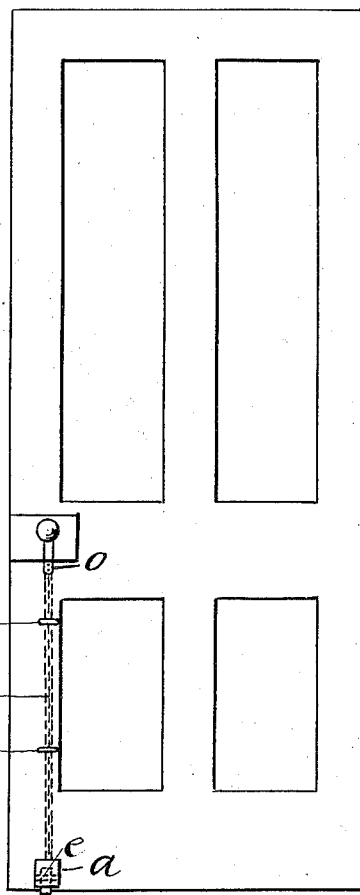


Fig. 5

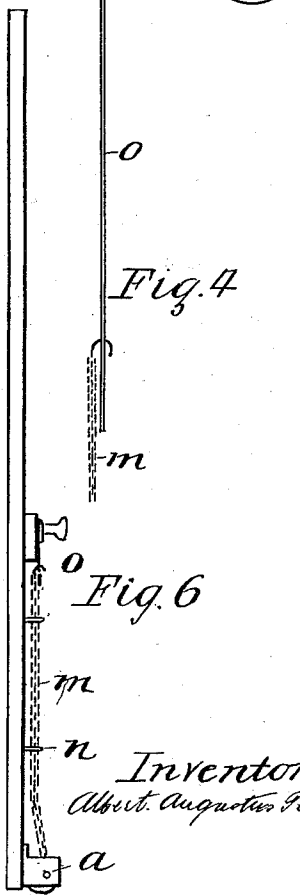


Fig. 6

Witnesses
W. Walker
O. Walker.

Inventor
Albert Augustus Terry.

UNITED STATES PATENT OFFICE.

ALBERT AUGUSTUS TERRY, OF SYDNEY, NEW SOUTH WALES, AUSTRALIA.

DOOR-STOP.

SPECIFICATION forming part of Letters Patent No. 748,543, dated December 29, 1903.

Application filed October 27, 1903. Serial No. 178,780. (No model.)

To all whom it may concern:

Be it known that I, ALBERT AUGUSTUS TERRY, a subject of the King of Great Britain and Ireland, and a resident of Marshall's Brewery, Paddington, Sydney, New South Wales, Australia, have invented certain new and useful Improvements in Door-Stops, of which the following is a specification.

This invention relates to improvements in door-stops, and has for its object the construction of an appliance which shall prevent the slamming of doors by the action of wind or from any other cause, thus obviating the damage to buildings; to retain the door in any desired position; which may be operated from the inside or outside by the door-handle if the latter be turned either to the right or to the left, and which may readily be put out of operation.

This invention is equally adapted for use on ships' cabin-doors.

To facilitate explanation, drawings are annexed, of which—

Figure 1 is a side view of the cam and its containing-box; Fig. 2, a front view of same; Figs. 3 and 4, a front and side view of the lever for operating said cam; Figs. 5 and 6, a front and side view of a door with the appliance in position.

My invention consists of a box *a*, of iron or other suitable material, open at the bottom and having slotted lugs *b* for adjusting and securing same to the door. In the top is a hole *c* over the pin *d*, which latter passes through and is secured to the box. Capable of moving on the pin *d* is the cam *e*, of iron, wood, or other suitable material, the bottom of which is ribbed or covered with some gripping material, such as india-rubber. In the cam is the vertical slot *f*. The bottom is flattened and rounded at *g* and *h*, the radii being greater at *ig* and *ih* than at *ij*. Stops *k* are provided on the cam to prevent its revolving too far. In the box *a* are also stops *l*, on which the stops *k* may operate.

The box *a* is secured to the bottom rail of a door, as shown in Figs. 5 and 6, and to the top of the cam *e* is attached a chain or rope *m*, which passes vertically through the hole *c* and through eyes or other suitable guides *n* in the door and at its upper end is hooked or otherwise connected to a lever *o*, which in its normal position when in use hangs vertically.

The vertical lever *o* is fitted on the square spindle *p* of the door-handle and retained in position by the knob *q*, which is secured by the screw-pin *r*, as customarily.

To carry my invention into practice, the box *a* is screwed to the door in such a manner that the bottom of the box just clears the highest part of the floor in the arc in which it travels. By turning the door-handle either to the right or left from the inside or outside the cam *e* is lifted vertically by reason of the slot *f*, and if it is not needed to use the door-stop the chain is hooked to a pin in the door when the cam is at its highest position. When it is desired to retain the door in any required position, the cam is released and rests on the floor. If the door is pushed from the outside, the cam grips the floor at *ih*, but if pushed from the inside it grips at *ig*. Thus the door is prevented from opening or closing until the handle is turned, and consequently the cam raised from the floor. The stops *k* on the cam operating on the stops *l* will prevent it from revolving too far on the pin *d* if by any reason excessive pressure is brought to bear on the door.

Having described my invention, I wish it understood that I claim—

1. In a door-stop, a cam flattened at the bottom and rounded at its lower corners, capable of sliding vertically on a pin, a pin on which said cam moves, a box in which said cam operates, stops on said cam and in said box to prevent said cam from revolving too far, a chain connecting said cam with a vertical lever fitted on the handle of a door, all substantially as described and shown on the drawings and for the purpose herein set forth.

2. In a door-stop, the combination of the slotted cam *e* with the box *a*, substantially as and for the purpose set forth.

3. In a door-stop, the combination of the slotted cam *e* with the pin *d*, box *a*, chain *m*, vertical lever *o* and door-handle, substantially as described and shown on the drawings and for the purpose set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ALBERT AUGUSTUS TERRY.

Witnesses:

W. WALKER,
O. WALKER.