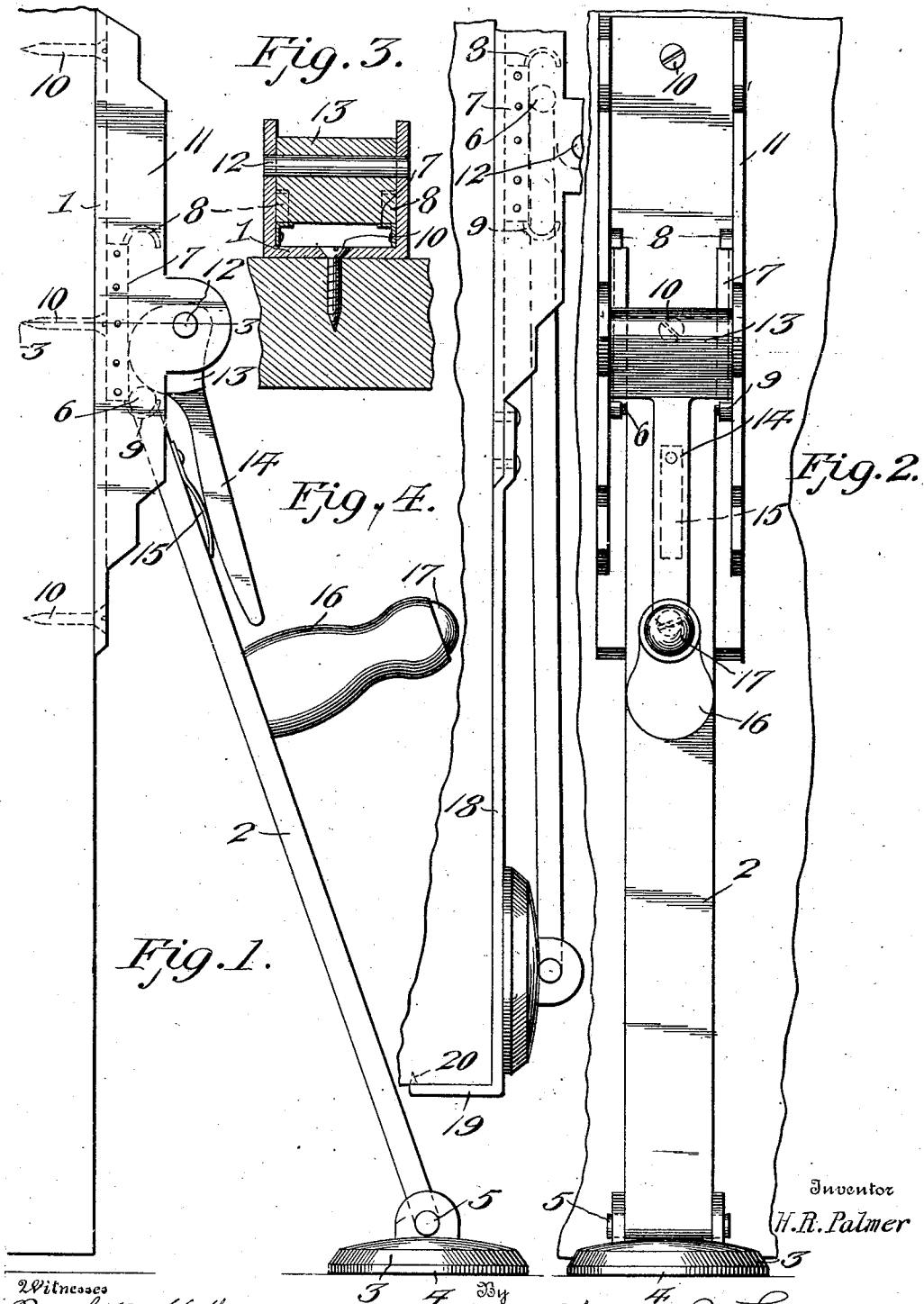


No. 842,691.

PATENTED JAN. 29, 1907.

H. R. PALMER.
DOOR SECURER.

APPLICATION FILED MAY 9, 1906.



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DOOR-SECURER.

No. 842,691.

Specification of Letters Patent.

Patented Jan. 29, 1907.

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To all whom it may concern:

Be it known that I, HENRY R. PALMER, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented new and useful Improvements in Door-Securers, of which the following is a specification.

This invention relates to door-securers, the object of the invention being to provide a portable device which may be readily carried in a suit-case or grip and which is especially designed for the use of tourists and travelers, who need a reliable device for fastening and securing the doors of their apartments at night to prevent intrusion.

While the invention is especially designed for the use of travelers, it will be apparent as the description proceeds that the door-securing device is also useful in residences for securing any or all doors therein irrespective of the usual locks, which are liable to be picked.

The door-securing device hereinafter described is readily applicable to any door. When properly applied thereto and adjusted, it will afford a positive means for preventing any one from opening the door.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a door-securer embodying the present invention and shown applied to a door. Fig. 2 is a view in elevation of the same. Fig. 3 is a horizontal cross-section on the line 3 3 of Fig. 1. Fig. 4 is a side elevation similar to Fig. 1, showing the door-securer folded for use as a bumper or stop and also showing the device modified to adapt it to the use of travelers.

The door-securing device contemplated in this invention comprises, essentially, an abutment 1 and a brace 2, provided with a pivoted foot or base 3. The foot or base 3 is shown in the form of a disk having a rubber facing or cushion 4 applied to the bottom thereof, providing for a firm frictional contact and adhesion between the foot and the floor to prevent possibility of any slipping of said foot or base on the floor when the device as a whole is in use. The base or foot 3 is pivotally connected at 5 to the lower end of the brace 2, so that it may be adjusted to the position shown in Figs. 1 and 2 for contact

with the floor or folded to the position shown in Fig. 4 to rest against the inner face of the door when not in use, thus allowing the door to be freely opened and closed. At its upper end the brace 2 is provided with oppositely-projecting pintles 6, which are adapted to be slid upward and downward in a suitable guide 7, provided at the top and bottom with limiting-hooks or stop-shoulders 8 and 9, respectively, against which the pintles 9 are adapted to bear when the brace 2 is slid upward or downward, as the case may be. The abutment 1 comprises, essentially, a plate which may be secured to the inner face of the door by means of screws or other fasteners 10, as shown in Figs. 1 and 2, and flanges 11, extending outward from said plate between which the upper end of the brace 2 is movable. The flanges 11 also provide for the formation of bearings for trunnions 12, projecting from opposite sides of the head 13 of a cam-lever 14, the handle of which ordinarily extends downward, as shown in Fig. 1, in which position the head 13 of the cam lies above and in contact with the upper end of the brace 2, so as to prevent said brace from moving upward, thereby holding the base or foot 3 in contact with the floor, the brace being thus securely locked by the cam-lever.

When the door-securer is not in use, the cam-lever 14 is rocked outward and upward, which allows the upper end of the brace 2 to be slid upward to carry the base 3 away from the floor, the base 3 being then folded to rest flatwise against the inner face of the door, as shown in Fig. 4. When the parts are adjusted to this position, the cam-lever 14 is again rocked to the position shown in Fig. 1, when the head 13 thereof will press against the brace and sustain the same in its uplifted position. Instead of resting directly against the brace 2 the head 13 of the cam-lever may bear against a spring-shoulder 15 on the outer side of said brace, said shoulder consisting of a spring having the free end portion thereof curved, as shown in Fig. 1, and arranged so that the head 13 of the cam-lever will bear against the lower end portion of said spring, whereby the brace is securely retained in its elevated position. At a suitable point the brace 2 is provided with a combined handle and bumper or stop 16, which projects outward from said brace and is provided with a rubber knob 17 at its outer extremity, the latter serving as a cushioning-stop for the door when thrown open.

To adapt the device better to the use of tourists and travelers, instead of employing fastening devices 10 for securing the abutment 1 to the door a stay 18 in the form of a metal strap is connected at one end to the lower extremity of the abutment and is of sufficient length to extend downward to the bottom of the door, where it is provided with an intumed toe portion 19, having at its extremity one or more upwardly-projecting spurs or teeth 20, adapted to sink into the bottom edge of the door, as indicated in Fig. 4.

The construction just described enables the door-securer as a whole to be quickly applied to any door and as quickly removed therefrom when no longer needed. It will be seen that the more pressure brought to bear on the door the greater the holding power of the securing device. The door-securer may be made of any desired size and may be folded up and carried in an ordinary valise or suit-case. The cam or eccentric serves to force the brace downward with any desired pressure, and thereby forces the door firmly against the stops of the door-frame and prevents an intruder from shaking the door, and thereby working the securing device loose.

I claim—

1. A door-securer embodying an abutment, means for fastening said abutment to a door, a brace having means to engage the floor, and a cam coöperating with the brace and adapted to hold the brace in engagement with the floor or out of contact with the floor, substantially as described.

2. A door-securer embodying an abutment, means for fastening said abutment to a door, a brace having a sliding engagement

with said abutment and having means to engage the floor, a spring-shoulder on said brace, and a cam coöperating with said brace either to hold the same in engagement with the floor or to sustain the same in an elevated position out of contact with the floor.

3. A door-securer embodying an abutment, means for fastening said abutment to a door, a brace having one end movably associated with said abutment, a floor-engaging base or foot having a jointed connection with the opposite end of said base, and a cam coöperating with the brace to hold the latter with the base or foot thereof in engagement with the floor or sustain the brace in an elevated position out of contact with the floor.

4. A door-securer embodying an abutment, means for fastening said abutment to a door, a brace having means to engage the floor, a combined handle and door-stop carried by said brace, and a cam coöperating with the brace to sustain the latter in engagement with the floor or uphold the same out of engagement with the floor.

5. A door-securer embodying an abutment, a stay for fastening said abutment to a door comprising a toe portion adapted to engage under the bottom of the door, a brace having means to engage the floor, and a cam for forcing the brace into engagement with the floor and holding the same, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY R. PALMER.

Witnesses:

Mrs. HENRY R. PALMER,
WILLIAM H. PALMER.