(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 033 034**
A1

(12) # EUROPEAN PATENT APPLICATION

(21) Application number: **80304592.1**

(51) Int. Cl.³: **E 05 C 19/18**

(22) Date of filing: **18.12.80**

(30) Priority: **26.01.80 GB 8002717**

(43) Date of publication of application:
05.08.81 Bulletin 81/31

(84) Designated Contracting States:
AT BE CH DE FR GB IT LI NL SE

(71) Applicant: **SILVERTHORNE-GILLOTT LIMITED**
Victoria Works Birmingham Road
Dudley West Midlands DY1 4RL(GB)

(72) Inventor: **Shaw, Harry**
32 Sandyfield Road
Sedgeley, Nr. Dudley West Midlands(GB)

(72) Inventor: **Truslove, Robert Cyril**
53 Sandy Road Norton
Stourbridge West Midlands(GB)

(74) Representative: **Hands, Horace Geoffrey et al,**
George Fuery & Co. Whitehall Chambers, 23 Colmore Row
Birmingham B3 2BL(GB)

(54) **Safety device for door.**

(57) A safety device for doors is to enable e.g. a hotel bedroom door to be locked independently of the conventional lock already provided on that door. It comprises a steel plate (10) to extend between the door (20) edge and the adjacent frame (30) part, with a first abutment (12) to engage the frame (30) and a second abutment (22) which is slidable on the plate (10), with stop means (26) engageable with the plate (10) to fix the second abutment (22) in position and hence hold the door (20) closed.

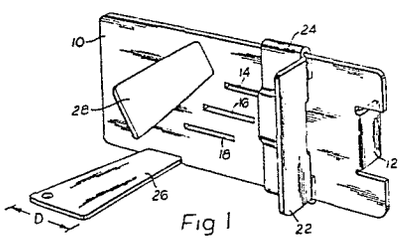


Fig 1

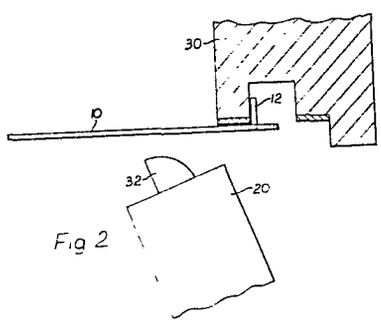


Fig 2

EP 0 033 034 A1

DESCRIPTION

SAFETY DEVICE FOR DOOR

This invention relates to safety devices for use with doors and door frames, and has for its object to provide a compact and portable device which may be used for example by the occupant of a hotel bedroom to provide a degree of security and safety, additional to that provided by the usual door lock.

In accordance with the invention a safety device for a door comprises a member having a unitary first abutment to engage one part of a door frame, a detachable second abutment to engage the opposite face of the door, and a stop which is engageable with said member and which serves to prevent detachment of the second abutment and hence hold the door closed.

One presently preferred embodiment of the invention is now more particularly described with reference to the accompanying drawings wherein:-

Figure 1 is a perspective view of a safety device;

Figure 2 is a fragmentary sectional plan view showing the device in the course of installation;

Figure 3 is a view similar to Figure 2 but showing the device completely installed; and

Figure 4 is a view showing the device in a storage or transport condition.

Referring now to the drawings, the device comprises three components. Firstly there is a member 10 in the form of a generally flat plate provided with an abutment 12 projecting from the plate conveniently at one end of the plate. The abutment 12 may be of such dimensions as to enter into the latch accommodating recess of the keeper plate mounted on the door frame with which the device is to be used. The plate is formed with a series of generally parallel slots such as 14, 16 and 18 each of which is of a length slightly less than the maximum width dimension D as hereinafter described.

The second component of the device comprises a second abutment 22 which is unitary with a part 24 arranged to be a sliding fit on and along the plate and the abutment 22 then projects generally parallel to the abutment 12 but in the opposite direction.

The third component comprises a key or wedge 26 which is conveniently pressed out of the material of the plate leaving aperture 28, and this key tapers along its length having the maximum dimension D at one end as mentioned.

In use, and as shown in Figure 2, the plate is located to project to the interior of the room which is to be secured and abutment 12 is located in the latch recess of the keeper attached to the door frame 30. The door 20 is then closed and the door latch 32 is received in the recess and holds the plate 10 in position. The second component is then threaded on to the plate and the abutment 22 is moved up against the inner face of the door. The key 26 is passed through one of the slots, and the one selected will depend upon the dimension

between the planes occupied by the first and second abutments. The key wedges the second component in position and hence holds the door shut even if the latch is released from the keeper.

Figure 4 shows that the part 24 may be made with a shallow recess or joggled part 32 to allow the key to be inserted between it and the plate 10 so as to hold the three components together in storage and transport.

The device may be made of relatively small dimensions so as to be easily stowed in a jacket pocket.

CLAIMS

1. A safety device for a door comprising a member having a unitary first abutment to engage one part of a door frame, a detachable second abutment to engage the opposite face of the door, and a stop which is engagable with said member and which serves to prevent detachment of the second abutment and hence hold the door closed.

2. A device as claimed in Claim 1 wherein said member comprises a steel plate and the unitary first abutment projects from the plate at one end thereof; the detachable second abutment comprising a part which is slidable along the length of said steel plate and the second abutment per se extends in the direction opposite to that of the first abutment.

3. A safety device as claimed in Claim 2 wherein said plate is provided with a series of spaced apertures in any of which the stop is engagable to limit sliding movement of said second abutment.

4. A safety device as claimed in Claim 3 wherein said apertures are elongated slots and the stop member is a wedge having a maximum dimension greater than the length of the slots.

5. A safety device as claimed in Claim 4 wherein said second abutment is provided with a recess to accommodate the wedge stop member during storage and transportation.

6. A safety device substantially as described.

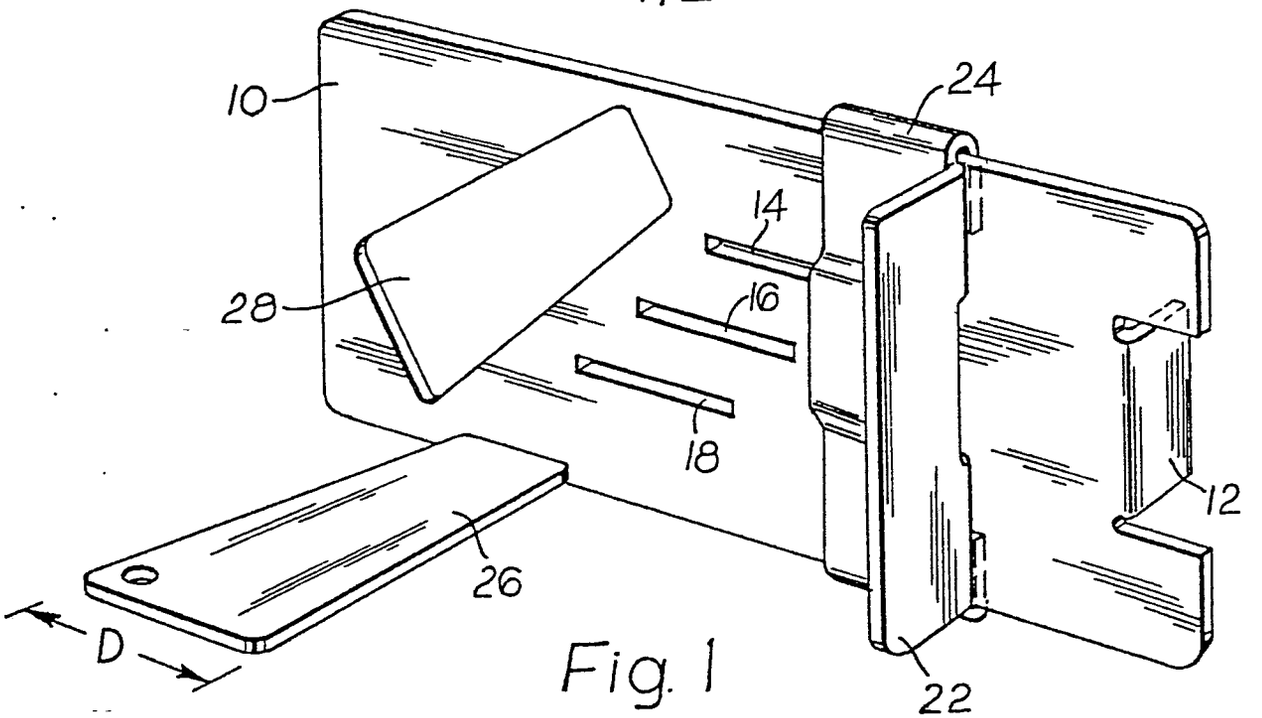
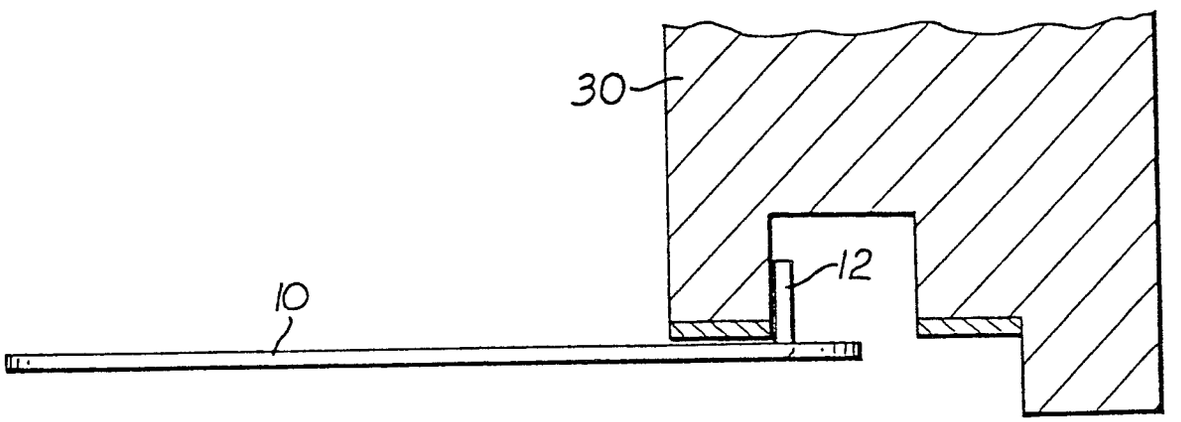


Fig. 1



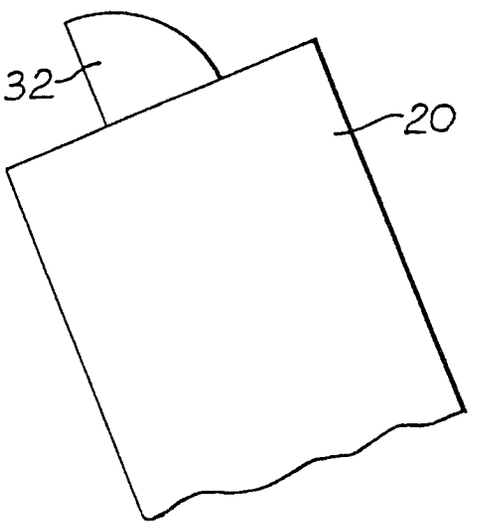


Fig. 2

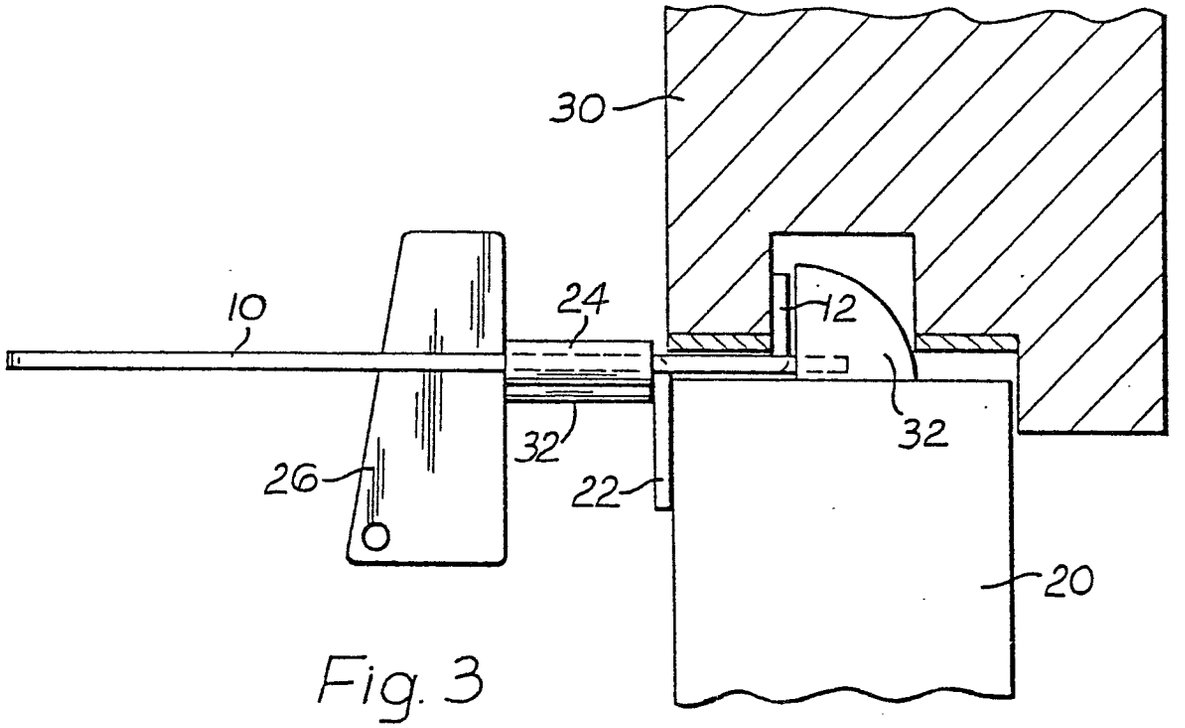


Fig. 3

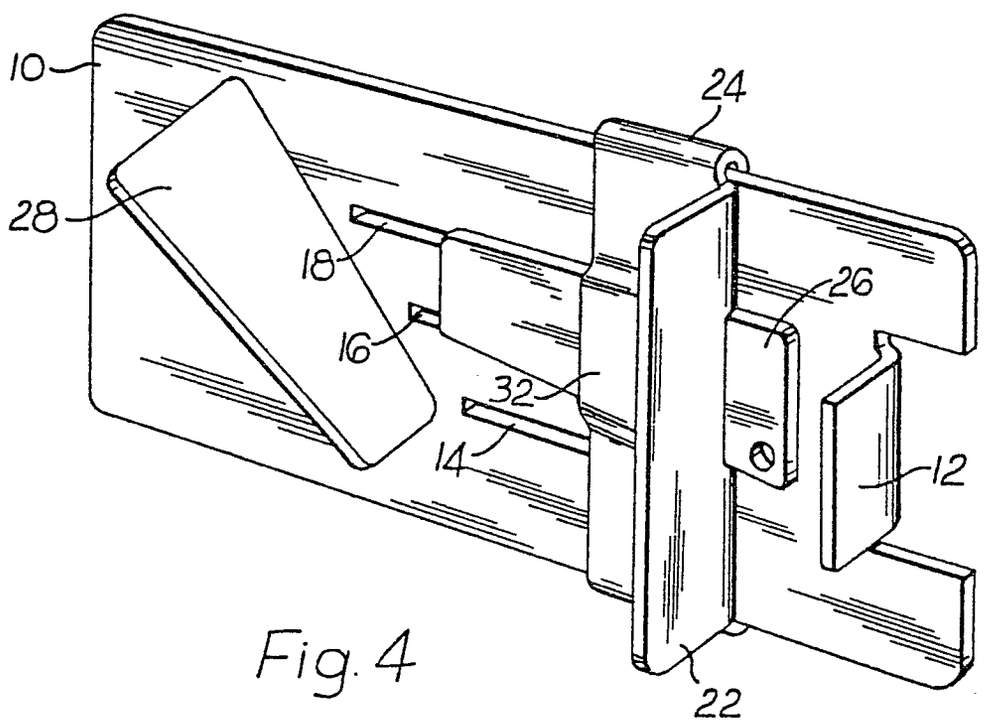


Fig. 4

European Patent Office

EUROPEAN SEARCH REPORT

Application number
EP 80 30 4592.1

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US - A - 1 627 709 (J. MENCHEN) * complete document *	1-3
X	US - A - 1 947 773 (J.A. HAVILAND) * complete document *	1-4
X	US - A - 2 161 673 (G. HAMMOND) * complete document *	1-3
X	US - A - 2 461 398 (H.F. SANDS) * complete document *	1-3
X	US - A - 3 262 292 (D.W. GLASS) * claims 1, 2; fig. 4 *	1-4
X	US - A - 4 059 299 (O.P. HUNTLEY) * column 1, lines 44 to 50; fig. 8, 9 *	1-3
	US - A - 3 589 761 (E.A. LAMBERT) * complete document *	1-4
	CA - A - 893 033 (J.H. WEBSTER) * claim 1; fig. *	1-4

CLASSIFICATION OF THE APPLICATION (Int. Cl.³)
E 05 C 19/18

TECHNICAL FIELDS SEARCHED (Int. Cl.³)
E 05 C 19/00

CATEGORY OF CITED DOCUMENTS
X: particularly relevant
A: technological background
O: non-written disclosure
P: intermediate document
T: theory or principle underlying the invention
E: conflicting application
D: document cited in the application
L: citation for other reasons
&: member of the same patent family, corresponding document

X The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Berlin	10-04-1981	WUNDERLICH