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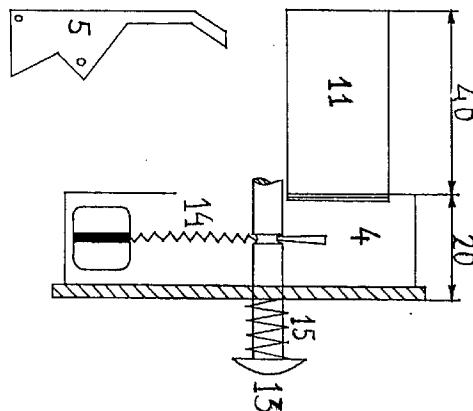
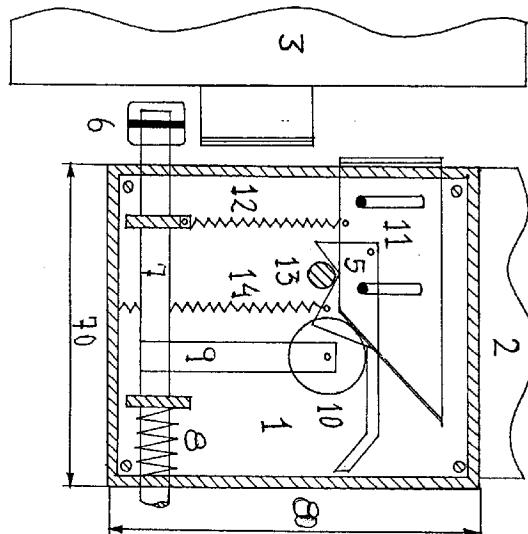
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(54) **Automatic door latch blocking device for preventing accidental lock-out.**

(57) The door latch blocking anti-theft device consists of a metal box of 70 mm. by 80 mm., 20 mm. deep with lid, making up a semi-airtight system and lubricated with industrial grease. It consists of an axis (7) with wheel (6) which moves activated by the door (3) which in turn works the axis (9) with its wheel (10). This in turn allows metal plate (11) to move up and down worked by springs (8) and (12).

This automatic system can be voluntarily blocked manually by pressing a button with its axis (13) installed in the lid with its operating spring (15). This axis is blocked by the part (5) in the groove of the axis. Upon shutting the door, the wheel (10) triggers the part (5) making the button jump outwards.

When permanently fixed, the metal plate acts as an antitheft device.



Automatic door latch blocking device against involuntary closing of doors and anti-theft system, proof against the introduction of credit cards, metal plates, etc.

The invention to be described here is an automatic device against involuntary closing of doors, which have door latch and has been designed for installation in the door frame, on a level with the door latch.

Basically it consists of a box initially designed in steel plate, although it can be made from other known materials, or materials yet to be discovered.

The purpose of the device is to avoid the door closing accidentally, because of gusts of wind, the person being outside with the door keys left inside, distractions, etc.

For a better understanding of this invention there is a page of diagrams attached, which represents an example of its performance under consideration, not intended to limit its use but rather to explain it, as it could be subject to modifications of details which would in no way affect its fundamental characteristics.

In the diagram:

The main drawing consists of the device seen facing us. Fig. 1; followed by Fig. 2 which represents the door frame. In Fig. 3, the door is ajar. Fig. 4 shows the left-hand-side of the device, and finally, Fig. 5, is a detail of the jamming mechanism.

Starting with the door ajar and beginning to close, the wheel starts to move Fig. 6, and pushes the axis which supports it, Fig. 7, overcoming the resistance of the rear spring, Fig. 8. The axis moves automatically Fig. 9, moved by the wheel, Fig. 10, allowing the metal plate (with a thickness of 0.5 mm.) to slip down Fig. 11, driven by the spring, Fig. 12.

The afore-mentioned metal plate is situated between the frame and the door, immediately above the door handle. As a result of the above movements, the metal plate has moved down sufficiently to prevent the door latch from locking, acting in this way every time the door closes.

Now you will see how the system previously described is blocked - which is done by pressing a button -.

As you will see, the blocking acts once only, when the button is pressed, Fig. 13, seen in cross-section, Fig. 14, with its common axis, which goes to the bottom of the box, Fig. 7, preventing the metal plate from moving down, Fig. 11. This operation is done with the door open.

The axis of the button, Fig. 13, has a groove which, when pressed, fits into the blocking piece, Fig. 5. This element is driven down by the spring, Fig. 14, by its tipping action.

After this sequence, the door is closed normally.

This device possesses a complimentary function when the plate, Fig. 11, is fixed permanently between the frame and the door, immediately above the door

latch. The plate should be placed 7 to 8 mm. before the jamb. This is proof against credit cards, metal plates, etc.

Having described the device in this petition, there only remains to add that in the production of the device, all modifications of detail which do not alter the essence of the device, may be introduced, which could affect change of form, materials used in fabrication, proportions, dimensions, etc. and in general anything which may be classed as an accessory or complement should all be included in the protection applied for.

15 Claims

1st) Automatic door latch blocking device, to prevent accidental closing of doors, forgetting of keys, gusts of wind, distractions, etc.

Anti-theft system proof against introduction of credit cards, metal plates, etc.

Designed in steel plate, although may be made with other known materials, or with materials yet to be discovered.

It consists of a box with a lid, semi-air tight, and a series of automatic and manual mechanisms, activated by the door and by springs adequate for this purpose.

2nd) Automatic door latch blocking device and anti-theft system - proof against the introduction of foreign objects. For use in doors with door-latches. Just as described and claimed in this petition and represented in the attached plan.

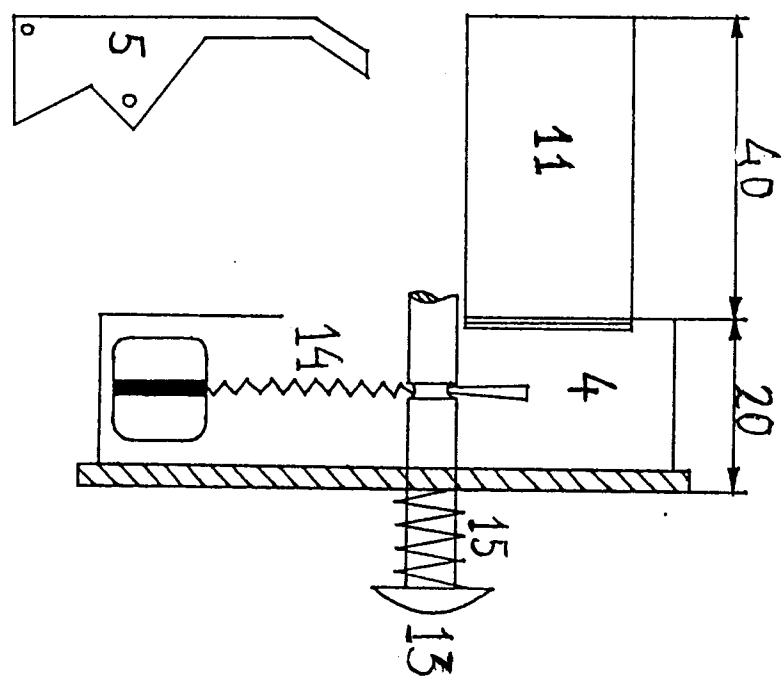
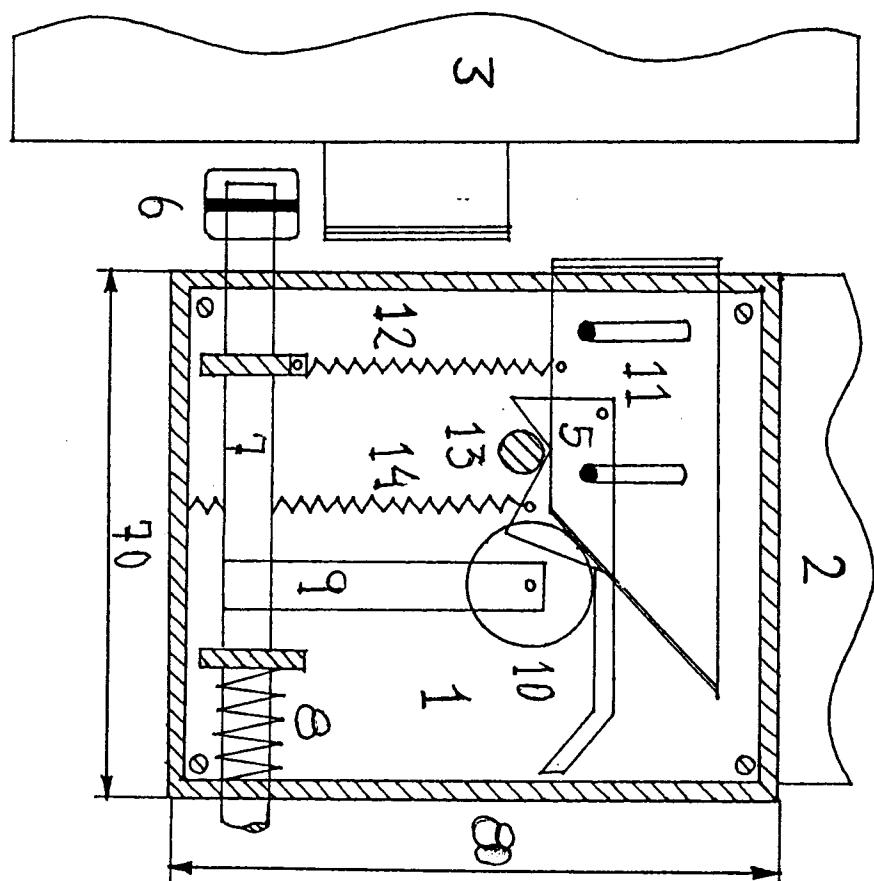
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European Patent
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EUROPEAN SEARCH REPORT

Application Number

EP 92 50 0021

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	CH-A-237 940 (A.G. EPPRECHT) -----	1,2	E05B17/00 E05B63/12
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E05B
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
THE HAGUE	17 FEBRUARY 1993		GERARD B.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			