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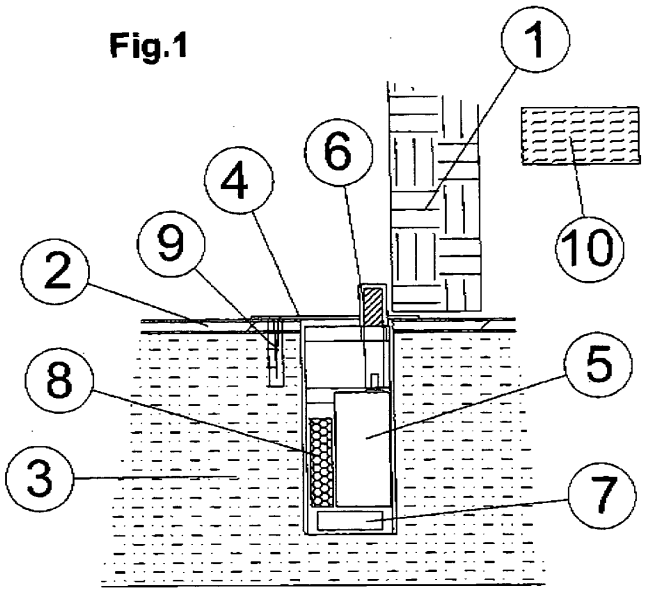
(54) **Block-door**

(57) Device named "fermo porta" used to prevent the opening of the entrance doors and the French windows to inward the units, characterized by the fact that is fully Independent from the key locks utilized, it comprehends one structure (4) built in metal or other suitable material integrated and stabilized in the flooring base (3) and the floor (2) of the unit and inside it, next by the door (1) or French window that needs to be protected.

Inside the structure (4) is provided by an engine or gear motor (5) cooperating with a worm, linked to a movable cylinder (6) that is conducted to protrude temporally from the structure itself and from the floor (2) close to the above door (1) or French window inside the property.

Fig.1



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Description

[0001] This invention refers to a door-locking device designed for the safety against intrusion.

[0002] In particular, this invention refers to a device that, independently from the locks, it allows to block the opening to inwards of the doors and French windows of estate units. The device of this invention in facts prevents the movement of opening the door and French window to inward the unit.

[0003] As it is known, the entrance doors are closed by locks, standard or special ones, actuated by the keys. These locks, anyway, don't offer great guarantees of absolute safety against intrusion. Even locks that were considered safe, nowadays are not anymore, as mentioned by the press and confirmed by the law enforcement, beside sophisticated systems that can open any kind of lock. The purpose of this invention is to have the above complaint put right.

[0004] More in particular, the intention of this invention is to provide one device, independent by the existing locks, capable to prevent the opening to inward of any door and French window.

[0005] A further aim of this invention is to provide users with one device as mentioned above ensuring an high level of resistance and reliability upon over time, built in such a way to be easily and economically constructed.

[0006] These and other aims are achieved by this device in accordance to the main claim.

[0007] The design and operational features of the door-locking device of the present invention will be better understood with the following description, in which on refers to the attached drawing:

> The figure 1 shows diagrammatically the device of the present invention installed next by an entrance door.

[0008] Referring to the above drawing, the door-locking device of this invention comprehends one frame 4, preferably cylindrical, integrated in the flooring base 3 and in the floor 2 inside the property, next by the entrance door 1. One element 9 fixes the frame 4 to the floor 2. Inside the frame 4 on insert one engine or gear motor 5, while a movable cylinder 6 is positioned on a plumb line with the door 1 and it is handled by a worm fixed on the shaft of the gear motor 5. In the same frame 4 it is inserted one support for one battery 8 and for a circuit board 7, which function is to send the ON/OFF signals to the gear motor 5 by remote control 10. The power supply can derivate from the power grid. The cylindrical structure 4 together with the gear motor 5 and the worm, with the support for the battery 8 and the circuit board 7, are inserted in one hole made in the floor 2 and in the flooring base 3, where it is fixed in a known way. One person that exits from the unit, after having closed the entrance door 1 pushes the button ON of the remote control 10, which will send to the gear motor 5 one signal for activating the worm and allowing the movable cylinder elevating for a pre-ordinated height. In this way, the movable cylinder will project and will impend the opening to inward of the entrance door 1.

Claims

1. Device named "fermo porta" used to prevent the opening of the entrance doors (1) and the French windows to inward the interior of the units, **characterized by** the fact that is fully independent from the key locks utilized, consistent of a frame (4) made in metal or other suitable material integrated and stabilized inside the flooring base (3) and in the floor (2) of the private property and inside the unit itself next by the entrance door (1) or French window to be protected, **characterized by** the fact that it comprehends inside the structure (4), one engine or gear motor (5) that activate one worm linked to a movable cylinder (6) that is conducted to protrude temporally from the structure itself and from the floor (2) close to the above door (1) or French window inside the property (2).

2. The device, as for the claim number 1, is **characterized by** the fact that comprehend one remote control (10) or equivalents, that can be activated by the user and interact with a circuit board (7) used for sending one electrical signal to the engine or to the gear motor (5) that will activate the mentioned worm who will consequentially elevate the movable cylinder of a preordinated height.

3. The device, as for the claim 2, **characterized by** the fact that the circuit board (7) is placed and stabilized inside the structure (4).

4. The device, as for one or more previews claims, **characterized by** the fact that the engine or the gear motor (5) is activated by power supply or from one or more battery (8) placed in the structure (4).

5. The device as for the claim 1, **characterized by** the fact that it contains at least one element (9) that fixes the structure (4) to the floor (2) and to the underneath flooring base (3).

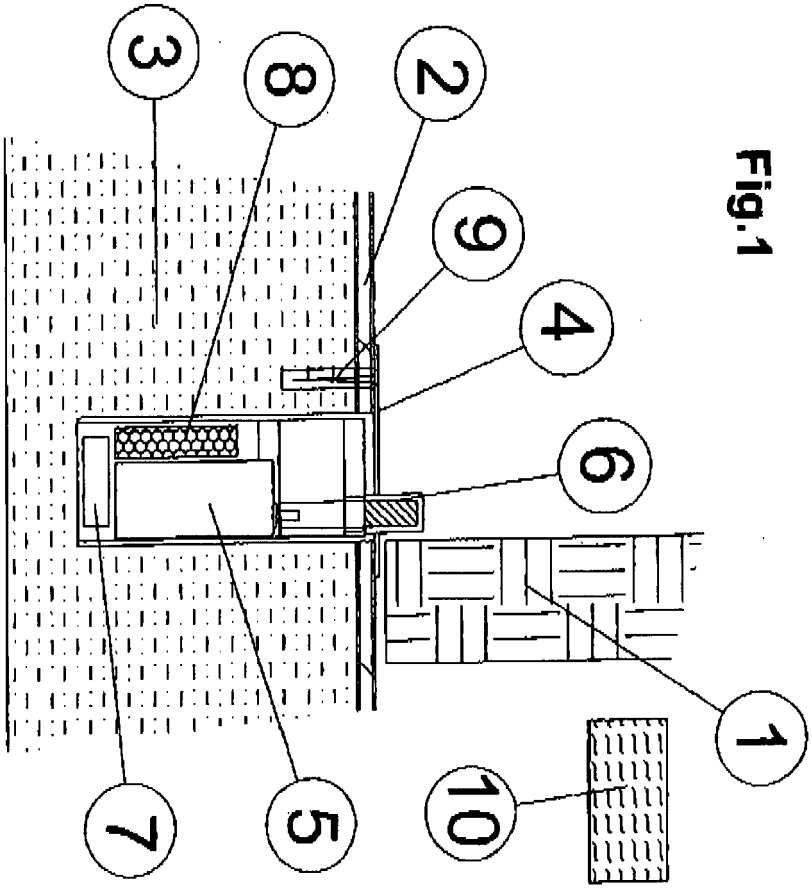

Fig.1

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EUROPEAN SEARCH REPORT

Application Number
EP 15 00 0374

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	WO 2013/163673 A1 (FIRE & SECURITY HARDWARE PTY LTD [AU]) 7 November 2013 (2013-11-07) * the whole document *	1-5	
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X	EP 0 767 285 A1 (C A S LOCKS S L [ES]) 9 April 1997 (1997-04-09) * the whole document *	1-5	
X	GB 2 209 049 A (SHAPLAND & PETTER LTD [GB]) 26 April 1989 (1989-04-26) * the whole document *	1-5	
			TECHNICAL FIELDS SEARCHED (IPC) E05B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	29 June 2015	Geerts, Arnold

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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E : earlier patent document, but published on, or after the filing date
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 15 00 0374

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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29-06-2015

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82