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(54) **ANTI-THEFT CASE FOR AMUSEMENT AND GAME OF CHANCE MACHINES**

(57) The invention describes an anti-theft cabinet for entertainment and slot machines, intended to protect the coin collection box of said machines from vandalistic actions and theft. The anti-theft cabinet consists of a U-shaped envelopment body at the lower part closed at the front by a collapsible door, and it is provided with collapsible arms in the upper part, which arms can collapse in both horizontal and vertical planes as a result of a hinge intercalated between the branches of each arm, and a pin for linking each arm to the structure of the machine. The collapsible door and arms are provided with locking mechanisms which are formed by a double-acting cam actuated by a cylinder, by means of which movement is transmitted to two latches, these mechanisms being able to be actuated by means of the same key for the door of the coin collection box or the main door.

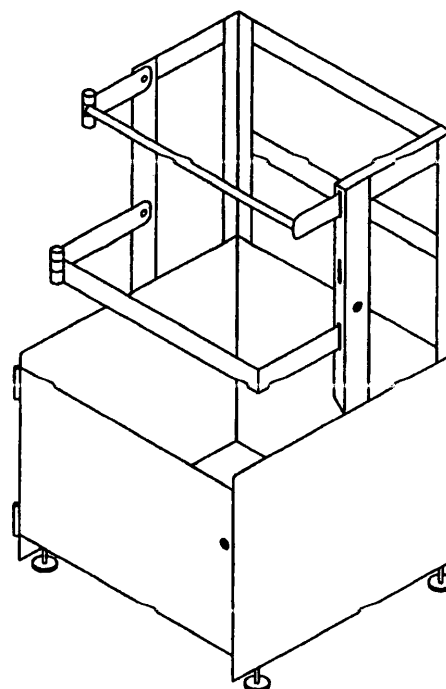


FIG. 1

Description

Object of the Invention

[0001] As indicated by the title, the present invention relates to an anti-theft cabinet for entertainment and slot machines, which has been conceived and carried out to obtain a number of considerable anti-vandalism and anti-theft advantages.

[0002] The cabinet is provided for protecting different parts of entertainment and slot machines: sides and rear part, and especially to safeguard the coin collection box and the front door by means of cylinder locks with double-acting cam-operated latches, such that no lever forces can be carried out on either the cabinet or on said machines. The cylinders provided are identical to those used for entertainment and slot machines, such that people involved in the industrial use of the machine (owner, maintenance technician, etc) can open the locks of the anti-theft cabinet and of the machines with a single key.

Background of the Invention

[0003] No other devices that are similar to the present invention applied to this type of machines are currently known.

Description of the Invention

[0004] The invention relates to a U-shaped cabinet with a front door reaching about mid-height, intended to safeguard the coin collection box inside this type of machines. Furthermore, in the same front part it has two arms encircling the upper front part of the machine and which by means of a double articulation enables separating said arms from the front part which, together with the aforementioned collapsible door, also collapsed, leave the front space free for putting the machine in the cabinet and taking it out. Once said machine is inside the cabinet, both the upper arms and the lower door are returned to their closed position.

[0005] The mechanism intended to lock the arms and the door consists of a cylinder which, by means of a double-acting cam, is able to move latches by means of a steel wire, this wire transmits the lever force produced in the cam located in the shaft of the cylinder to the moving latches locking the door and the arms. Said latches remain inserted in guides which, in the case of the door are tubes and in the case of the arms are notches made in the flat bars of said arms.

Brief Description of the Drawings

[0006]

Figure 1 shows an isometric perspective view of the cabinet with the arms and the door in the locked position.

Figure 2 shows a profile elevational view of the cabinet, in which the situation of the mechanisms placed in the arms and in the door for the locking thereof can be seen.

Figure 3 shows a detailed view of the mechanism for actuating the two moving latches at the same time by means of a cylinder for locking or unlocking the arms. This view shows the mechanism in its two locked and unlocked states.

Figure 4 shows a detailed view of the mechanism for actuating the two moving latches at the same time by means of a cylinder for locking or unlocking the lower door of the cabinet.

Description of a Preferred Embodiment

[0007] Figures 1 and 2 show how the cabinet is formed by a U-shaped sheet steel envelopment (1) 3 mm thick, having a geometry that is suited to the outer dimensions of this type of machines. Two weldable hinges (6) are welded to this sheet envelopment which allow the articulation of the lower door (2) in which a lever cylinder lock (14) with a double-acting cam (10) is assembled for locking said door, which is what protects the door of the coin collection box of the entertainment and slot machines from lever actions and theft. The door is locked (Figure 4) by means of transmitting linear movement through a steel wire (11) 2.7 mm in diameter, the ends of which are hook-shaped, produced by a 90° turn of a double-acting cam (10) operated by a cylinder (14) which is normally used in this type of machines. However, when this double-acting cam (10) turns about its axis, it moves each of the two wires (11) in opposite directions, moving latches (12) through guides (13), until being housed inside other guides, the latter being welded to the envelopment of the cabinet, the door being locked at the top and bottom with a simple 90° turn of the key on the cylinder.

[0008] Furthermore, 2 arms have been provided in the upper front part of the cabinet, the upper arm (4) with a depth that is less than the lower arm (3), which is because of the outer dimensions of this type of machines. These two arms are attached to the cabinet on the left side with a bolt (8) welded to the cabinet, but not to the arm, acting as a hinging pin for each of the arms, thus obtaining a vertical rotational movement of the arm in relation to the cabinet. Each arm has a hinge welded to the left flat bar of the arm and to the front flat bar in the case of the lower arm (3), and to the round rod in the case of the upper arm (4). A horizontal 180° rotational movement is obtained with this hinge such that the two arms can be separated from the front part of the cabinet, collapsed towards the left (movement allowed by the hinge) and supported downwards (movement allowed by the bolt welded to the cabinet functioning as a hinging pin for the arm).

[0009] A mechanism identical to the door mechanism has been provided so as to lock the two arms simultane-

ously, but the guides in which the latches are housed to lock the door have been replaced with notches made in the flat bars of the right part of the arms (Figure 3).

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Claims

1. An anti-theft cabinet for entertainment and slot machines, intended to protect the coin collection box of entertainment and slot machines from vandalistic actions and theft, provided with a lower housing and collapsible arms in the upper part, **characterized in that** the lower housing consists of a U-shaped envelopment body (1) closed at the front by a collapsible door (2); **in that** the mentioned collapsible arms (3, 4) of the upper front part can collapse in both horizontal and vertical planes as a result of providing a hinge intercalated between the branches of each arm, and a pin for linking each arm to the structure of the machine; and **in that** it also comprises locking mechanisms for the arms (3, 4) and the lower door (2) in the closed situations, each of these mechanisms being formed by a double-acting cam (10) actuated by a cylinder (14), by means of which movement is transmitted to two latches (12) which are guided through a respective sleeve (13), through wires (11) with hook-shaped ends which move each of said latches in opposite direction with respect to one another, all these mechanisms being able to be actuated by means of the same key used for opening or closing the door of the coin collection box or the main door of the entertainment and slot machine.

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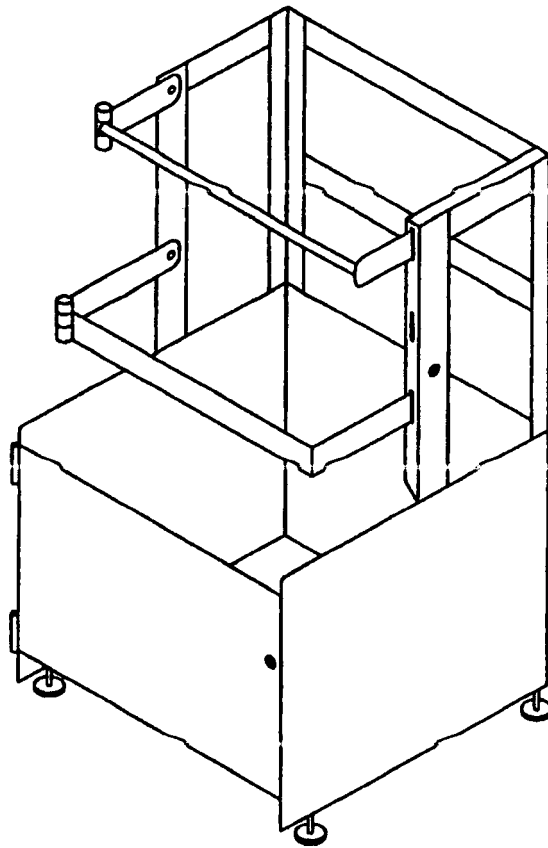


FIG. 1

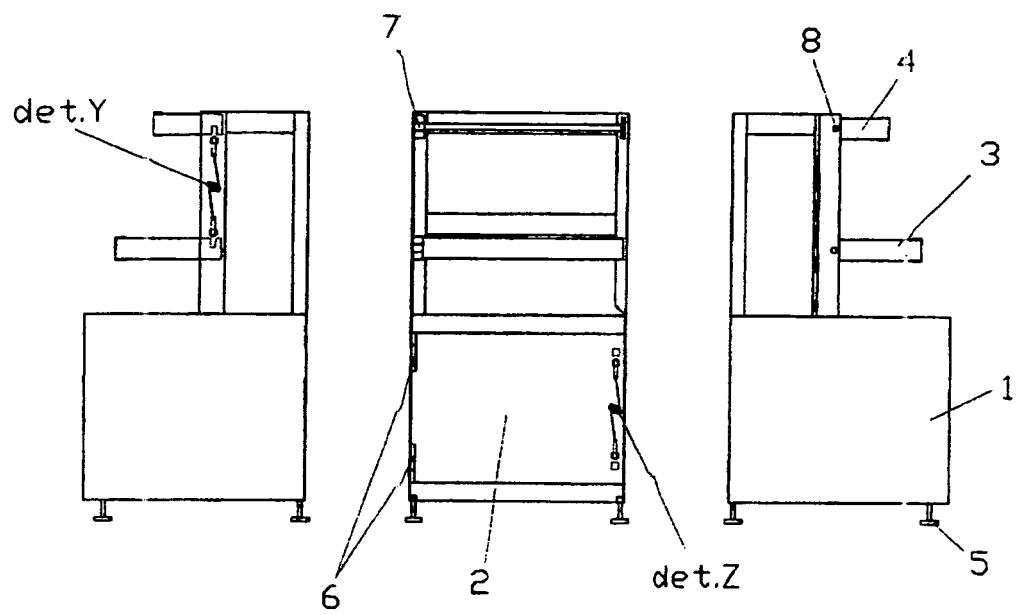


FIG. 2

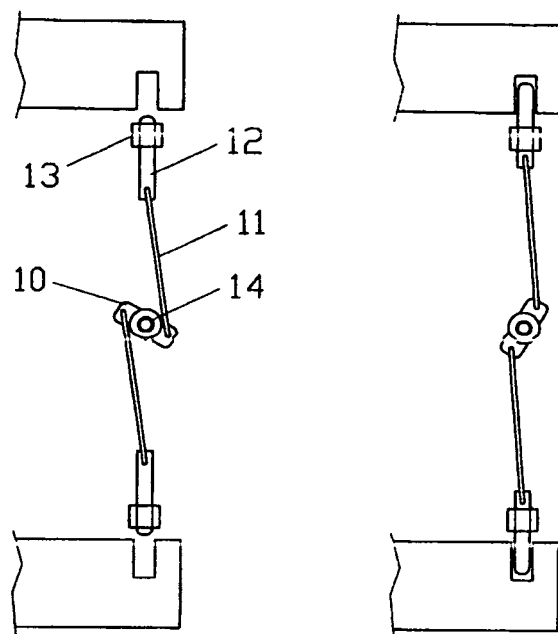


FIG. 3 (det. Y)

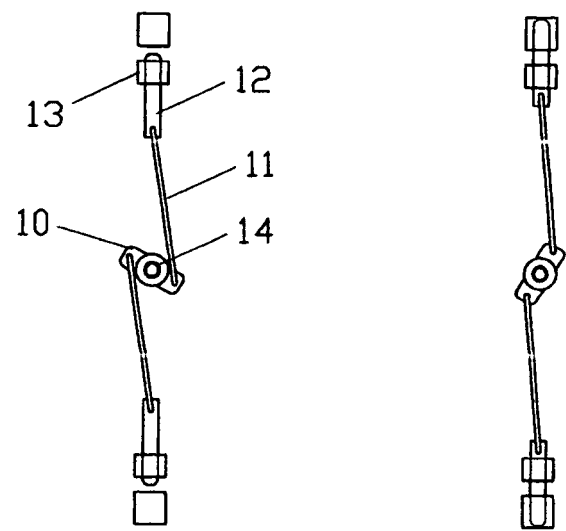


FIG. 4 (det. Z)

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER see additional sheet		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
G 07 F, E 05 C, E 05 B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
CIBEPAT, EPODOC, WPI, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ES 1 057 076 U (SANTOYO GARCIA) 16.06.2004, all the document	1
A	US 6 077 427 A (BURROWS) 20.06.2000, resume , column 6, line 49-column 7, lin 42; figures 3, 9-11	1
A	US 4 418 551 A (KOCHACKIS) 06.12.1983, all the document	1
A	US 5 108 166 A (KLIX) 28.03.1992, all the document	1
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Date of the actual completion of the international search (10.01.2006)		Date of mailing of the international search report (13-01-2006)
Name and mailing address of the ISA/ Facsimile No.		Authorized officer Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/ ES 2005/070141

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
ES 1 057 076 U	16.06.2004	NONE	
US 6 077 427 A	20.06.2000	NONE	
US 4418551 A	06.12.1983	NONE	
US 5 108 166 A	18.03.1992	NONE	

Form PCT/ISA/210 (patent family annex) (July 1992)

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