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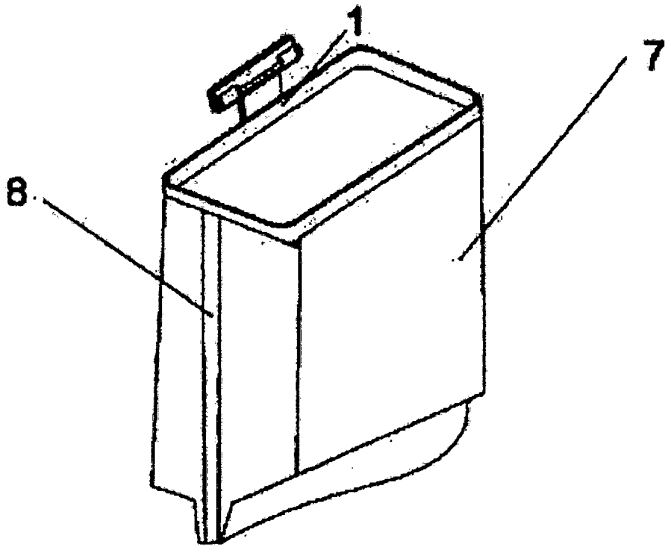
(54) **CASE-RECEIVING CONTAINER**

(57) The invention relates to a container for receiving, collecting and storing cases fired from a firearm. According to a first aspect of the invention, the container includes a support hinged with a first securing portion including a face having an adhesion element for attaching same to the surface of the arm, and a securing and braking system suitable for tilting, and a second mobile portion having a frame with an inlet and outlet for the support, as well as including a tubular cover connected at one end to the inlet and including an opening and closing system at the opposite end. According to a second aspect, the invention provides a removable container including a securing and anchoring system comprising two pivots with a central hole and a retaining catch, in which the container includes a frame having end attachments for coupling and uncoupling same in relation to the support.

Fig 1



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Description

Object of the Invention

[0001] The present invention generally relates to a case-receiving container which provides significant advantages and novelty features with respect to existing means having similar purposes.

[0002] More particularly, the invention proposes a collection and storage system for fired cases which is formed essentially by a hinged support connected to a cover having an opening and closing system.

[0003] In a second aspect, the invention also relates to a removable container for collecting cases taking shape in a capturing and storage system for fired cases, essentially comprising a support adhering to the surface of the arm which is provided for coupling and uncoupling a container for case storage, having a frame suitable for pivoting and being attached on the support and a cover which envelopes the frame at one end and has at the other end an access port provided with Velcro™ or similar material for removing the collected cases.

Background of the Invention

[0004] Utility Model document ES 1076564U relates to a case-collecting device with a bolt characterized by being made up of a flat bar (2) which is coupled to the arm (1), along with the bolt (3) thereof, by means of flanges (4); there are arranged on said flat bar (2) guides (5) on which a bridge (6) slides; there is located between the two ends of said bridge (6) and the lateral ends of the guides (5) the mouth (11) of the bag (8), which is secured by means of the flanges (7); said bag (8) incorporates at its lower end a channel closure (9); the cases (10) coming out of the bolt (3) are stored inside said bag (8).

Brief Description of the Invention

[0005] Based on the state of the art mentioned above, the invention considers the development of a case-receiving container which improves the current art allowing the cases to reach the storage site without the arm's functionality being affected by weight, anchors or any factor that may hinder or cause discomfort to the person firing the arm, and is furthermore intended for use as an advertising support.

[0006] The case-receiving container essentially comprises a hinged support, having a first securing portion, including a rear face which is connected to an adhesion element which connects onto the surface of the arm, a front face provided with a securing and braking system, suitable for tilting, and a profile and a second mobile portion formed by a frame, including an inlet and an outlet of the support connecting with the first portion by means of a shaft allowing it to perform a gradual movement from an inoperative position in which the inlet is separated from the arm, to an operative position in which the inlet is located opposite same, on the perimetral area of the ejection opening of the arm, such that the cases enter through the inlet when the arm is fired, and to a cover having joining elements at the ends provided for being connected together, forming an essentially tubular body provided with an opening and closing system at one end and is connected around the perimeter thereof to the inlet at the other end.

[0007] According to a second aspect of the invention, a removable container for cases improving the current art is provided, which allows uncoupling and coupling the container by means of exerting a little pressure on the frame.

[0008] The removable container for cases essentially has a first securing portion formed by a support which includes a rear face connected to an adhesion element which connects onto the surface of the arm and a front face which has on the base thereof two pivots with a hole extending parallel to the base of the support and a fastening and retaining catch has been included in at least one of the pivots, and has a second storage portion formed by a container comprising a frame having a general geometric prism shape with an essentially rectangular base, which is open on two sides, including an inlet and an outlet which is arranged perpendicular to the inlet, which is connected to two attachments forming two end parts capable of bending, increasing and reducing the distance between the ends, and to a cover suitable for enveloping the frame at one end and has at the other end an access port equipped with an opening and closing system by means of Velcro™ or similar material, where the stored cases are collected.

[0009] According to a feature of the invention, it is advantageous for said attachments to be flexible and to have the ends located in opposite positions, on an axis extending parallel to the base of the frame, so that once they have been tensioned, they are coupled in the holes of the support and pivot about the axis until the retaining catch, releasing the tension in the attachment, attaching the frame to the support.

[0010] According to yet another feature of the invention, replacing the frame with a rigid container connected to at least one attachment provided with a system for coupling and attachment to the support and this being capable of rotating about an axis, is envisaged.

[0011] According to another feature of the invention, it is envisaged that the container has a space forming an opening on one side to allow the movement of the bolt.

[0012] According to yet another feature of the invention, replacing the adhesion element of the support with a magnet, suction cup or the like, is envisaged.

Brief Description of the Drawings

[0013]

Figure 1 shows a perspective view of a case-receiving container according to a first aspect of the inven-

tion;

Figure 2 shows a perspective view of a hinged support of the case-receiving container of Figure 1;

Figure 3 shows a perspective view of a removable container for cases according to second aspect of the invention;

Figure 4 shows a front view of a support included in the removable container of Figure 3, and

Figure 5 shows a perspective view of a frame corresponding to the removable container for cases of Figure 3.

Detailed Description of a Preferred Embodiment

[0014] The mentioned drawings show how the case-receiving container essentially comprises a hinged support (1) having a first portion having a rear face connected to an adhesion element (2), a front face provided with a securing and braking system (3) and a profile and a second portion connected to the first portion, provided for tilting by means of a shaft, formed by a frame (4) including an outlet (6) and an inlet (5) which is connected around the perimeter thereof to a cover (7) provided with joining elements (8) arranged such that they coincide at the ends, for being connected together and forming an essentially tubular body, connected on the perimeter to the inlet (5) at one end and provided with an opening and closing system at the other end.

[0015] The use of the case-receiving container is as follows:

First, the upper side of the cover (7) is connected to the inlet (5) surrounding same for subsequently connecting the side joining elements (8) such that they coincide; next, the opening and closing system is closed, such that the cover (7) forms a container in the form of a bag where the cartridges or cases are deposited. Then, the hinged support (1) is secured to the arm (not depicted), such that the adhesion element (2) is arranged facing the surface of the arm, coinciding with it so that the inlet (5) is arranged on the perimeter of the cartridge or case ejection opening in an operative position. Every time the arm is fired, the cartridges are ejected through the ejection opening, entering the inner cavity of the cover through the inlet (5). The inlet (5) can then be gradually moved to an inoperative position, in which the closure is opened and the stored cartridges or cases are removed.

[0016] Figures 3 to 5 show an embodiment according to a second aspect of the invention in which a removable container for cases essentially comprises a first portion formed by a support (1') having a rear face connected to an adhesion element (9) which connects onto the surface of the arm (not depicted) and a front face provided for coupling a second storage portion, formed by a container (13) comprising a frame (14) having an inlet connected to two attachments (15) having two adapted ends provided for bending and coupling on the support (1'), and an outlet perpendicular to the inlet and to a cover (16) which envelops the frame (14) at one end and has at the other end an access port (17) provided with an opening and closing system by means of Velcro™ or similar material.

[0017] Said support (1') has on the base thereof two pivots (10) with a central hole (18) extending parallel to the base of the support and has a retaining catch (12) in at least one of the pivots (10).

[0018] The ends of the attachments (15) are located in opposite positions on an axis parallel to the base of the frame (14), for coupling in the holes (18) of the support (1') when tensioned, and pivoting about an axis and being introduced in a retaining catch (12) for attaching the frame (14).

[0019] Said container (13) has an opening (18) on one side for allowing the movement of the bolt of the arm.

[0020] First, in order to place the removable container for cases, the adhesive face of the adhesion element (16) is connected to the surface of the arm, positioning the support (1') below the case ejection window and pressure is applied on the support (1'). Then, the container (13) is placed by introducing the ends of the attachments (15) into the holes (18) of the support (1') by means of pressure. The container (13) is thereby secured to the support (1'). In this initial position, the inlet of the container is perpendicular to the ejection opening of the arm, such that a first cartridge can be introduced through the ejection opening. Next, the container (13) is manually moved, pivoting the tensioned attachments (15) from the initial position in which the outlet is located horizontally to a second position in which the attachments (15) are introduced in the retaining catch (12), since part of the tension is lost, in which the outlet is arranged vertically, the opening of the container (13) being located facing the ejection opening of the arm, so the cartridges can therefore be introduced through the lower window of the arm.

[0021] The arm is fired once loaded, so the bolt of the arm moves going through the side opening (18) of the container (13) and the cases are ejected through the ejection window, being introduced in the container (13) through the inlet of the frame (14), falling through the outlet into the bag formed by the cover (16).

[0022] To reload the arm through the ejection window, the side of the frame (14) is pressed until the attachment (15) acting as a stop is released from the retaining catch (12). The container (13) is then rotated to the initial position in which the attachments (15) exert pressure between the pivots (10).

[0023] To remove the cases, the access port (17) of the cover is opened by pulling on the Velcro™ and the cases fall as a result of their own weight, without having to disassemble the container (13) from the support (1').

[0024] To uncouple the container (13) from the support (1'), the attachments (15) are pressed again until they come out of the holes (11) of the pivots (10).

Claims

1. A case-receiving container for collecting cases ejected from a firearm when fired, **characterized in that** it is a removable container and essentially comprises a first securing portion formed by a support (1') including a rear face connected to an adhesion element (9) for attaching to the surface of the arm and a front face provided with a securing and anchoring system, formed essentially by two pivots (10) that are arranged on the surface of the front face, having a central hole (11) extending in an axis parallel to the base of the support (1') including, in at least one of the pivots (10), a fastening and retaining catch (12), and has a second storage portion formed by a suitable container (13) comprising an opening (18) on one side for the passage of the bolt of the arm, said container comprises a frame (14) including an inlet and an outlet which is arranged perpendicular to the inlet, which is connected to two attachments (15) having end parts that are capable of coupling and uncoupling with respect to the support (1'), and to a cover (16) in the form of a bag, which envelopes the frame (14) at one end and has at the other end an access port (17) provided with an opening and closing system including velcro™ or similar material.

2. The case-receiving container according to claim 1, **characterized in that** the attachments (15) are flexible and their end parts are located in opposite positions, on an axis parallel to the base of the frame (14), so that they can be tensioned and coupled or uncoupled with respect to the inside of the holes (11) of the support (1').

3. The case-receiving container according to claims 1 and 2, **characterized in that** the end parts of the attachments (15) are capable of pivoting inside the holes (11) of the support and being introduced in the retaining catch (12) to secure the container (13).

4. The case-receiving container according to claim 1, **characterized in that** the frame (14) can be replaced with a rigid element connected to at least one attachment (15) which incorporates a coupling system for coupling to the support (1') and is capable of pivoting about an axis.

5. The case-receiving container according to claim 1, **characterized in that** the adhesion element of the support can include a magnet, a suction cup or another similar element.

Fig 1

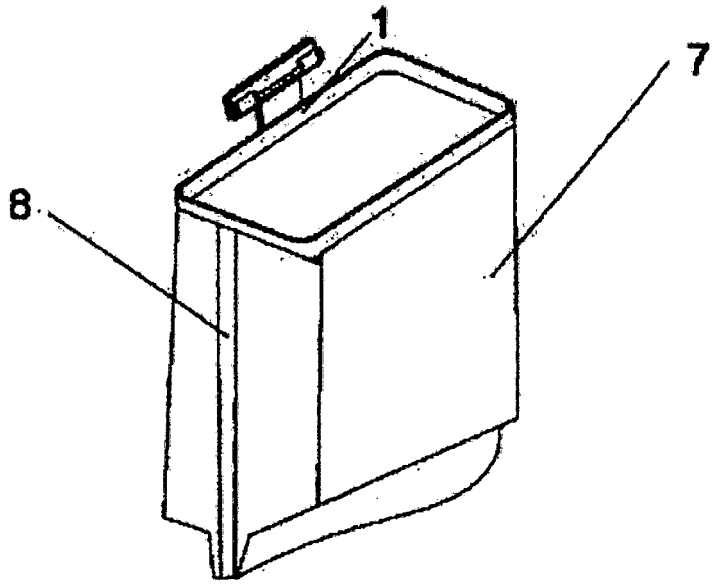


Fig 2

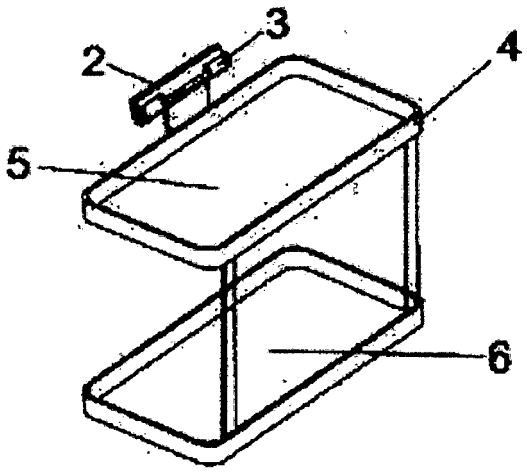


Fig 3

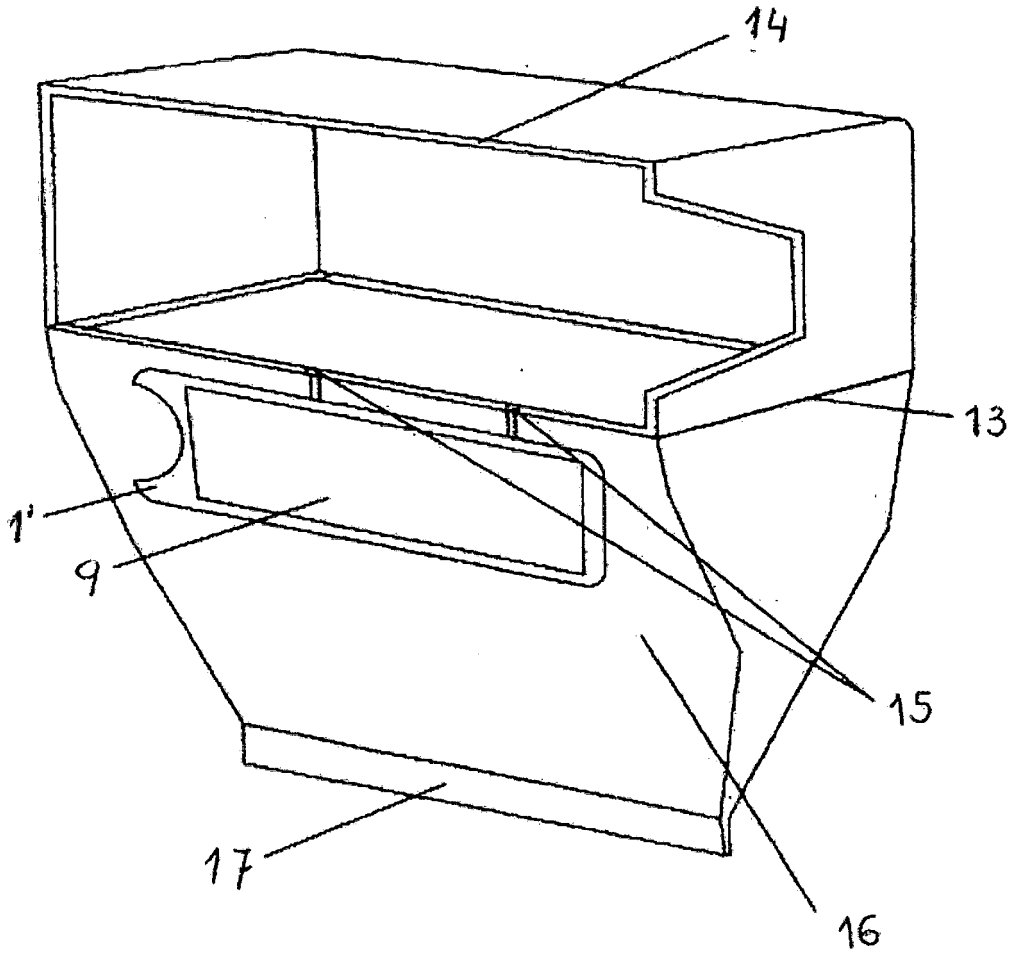


Fig 4

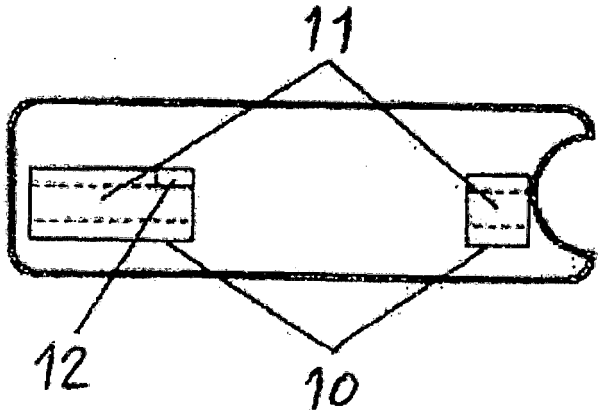
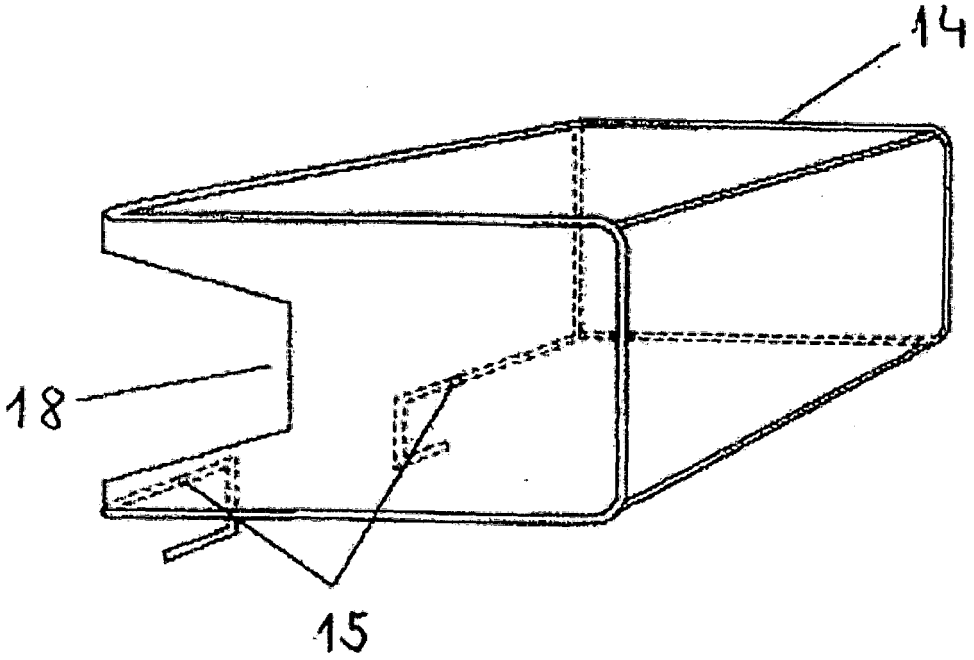


Fig 5



INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES2014/000160

A. CLASSIFICATION OF SUBJECT MATTER

F41A9/60 (2006.01)

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)
F41A

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)

EPODOC, INVENES

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006101699 A1 (PEREZ KENNETH ET AL.) 18/05/2006, abstract; paragraphs[16 - 19,] paragraphs[23 - 25]; claim 3; figures.	1-7
A	US 3881268 A (PETERSEN CLARENCE C) 06/05/1975, column 2, lines 9 - 29; figures.	1,2
A	US 4110927 A (MORRIS JACK LEROY) 05/09/1978, column 3, lines 21 - 35; figure 4.	2
A	US 5138787 A (RIDDLE RONALD E ET AL.) 18/08/1992, abstract; figure 2.	6
A	US 4166333 A (KRATZER ERICH E F) 04/09/1979, abstract; figures.	1

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
16/01/2015	**(27/01/2015)**
Name and mailing address of the ISA/ OFICINA ESPAÑOLA DE PATENTES Y MARCAS Paseo de la Castellana, 75 - 28071 Madrid (España) Facsimile No.: 91 349 53 04	Authorized officer C. Piñero Aguirre Telephone No. 91 3493405

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES2014/000160

C (continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5398439 A (HARLESS CLYDE R) 21/03/1995, abstract; figures.	1

Form PCT/ISA/210 (continuation of second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/ES2014/000160

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US5398439 A	21.03.1995	NONE	

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REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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