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(54) CASE-RECEIVING CONTAINER

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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] 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).

[0005] The document US 2006101699 (PEREZ KENNETH et al.) describes a container for receiving cases discharged from a firearm when it is fired, the container comprising a hinged support which has a first securing portion (42) including a rear face provided for attachment to the surface of the firearm and a front face which has a securing and braking system (44, 46, 48, 50) provided so as to pivot and a second mobile portion, composed of a frame (16) that includes an inlet and an outlet for the support, which is connected to the first portion by means of a shaft which makes it possible to effect a gradual movement from an inoperative position to an operative position facing the inlet, around the discharge opening of the firearm which remains arranged peripherally (figures 3, 6), and which is connected to a cover (96, 98, 100) that forms a tubular body over the frame (see figure 1). The document also describes a case-receiving container comprising a first securing portion composed of a support (42) including a rear face for attachment to the surface of the firearm and a front face provided with a securing and anchoring system composed of two pivots (44, 48) arranged on the surface of the front face, with a central

hole that extends in an axis parallel to the face of the support (42), wherein at least one of the pivots includes a nut (54) for retention and fastening. The case-receiving container also comprises a second portion composed of a frame (16) that includes an inlet and an outlet, perpendicular to the inlet which are connected on the support (42) by means of two ends of the element (18) (paragraphs 16-18: figures 3 and 6).

Brief Description of the Invention

[0006] 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.

[0007] According to the invention, a case-receiving container for collecting cases ejected from a firearm as defined in claim 1 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 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.

[0011] 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

[0012]

Figure 1 shows a perspective view of a case-receiving container not forming part of the present invention but representing background art useful for understanding the invention;

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

[0013] The mentioned drawings show how a 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.

[0014] 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.

[0015] Figures 3 to 5 show an embodiment according to the present 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.

[0016] Said support (1') has on the base thereof two pivots (10) with a central hole (11) extending parallel to the base of the support and has a retaining catch (12) in at least one of the pivots (10).

[0017] 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 (11) of the support (1') when tensioned, and pivoting about an axis and being introduced in a retaining catch (12) for attaching the frame (14).

[0018] Said container (13) has an opening (18) on one side for allowing the movement of the bolt of the arm.

[0019] 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 (11) 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.

[0020] 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).

[0021] 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).

[0022] 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').

[0023] 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, wherein said case-receiving container is removable 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, wherein 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 a cover (16) in the form of a bag, 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 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 adhesion element of the support includes a magnet.
5. The case-receiving container according to claim 1, **characterized in that** the adhesion element of the support includes a suction cup.

Patentansprüche

1. Ein Patronenhülsenbehälter, zur Aufnahme der

beim Abfeuern einer Schusswaffe abgeworfenen Patronenhülsen. Es handelt sich um einen abnehmbaren Behälter, der im Wesentlichen aus einem ersten Sicherungselement in Form eines Halters (1') mit einer an einer Haftungsvorrichtung gekoppelten Rückseite (9) zur Verbindung mit der Waffenoberfläche besteht, sowie aus einem Sicherungs- und Verankerungssystem in Form von zwei Ankerpunkten (10). Die Ankerpunkte (10) sind an der Vorderseite angebracht und haben eine zentrierte, zur Achse der Halterungsbasis (1') parallel verlaufende Öffnung (11). Und mindestens einer der Ankerpunkte (10) ist mit einem Verschluss- und Halterungshaken (12) versehen und hat einen zweiten Auffangbereich in Form eines geeigneten Behälters (13), der an den vorbezeichneten Patronenhülsenbehälter gekoppelt ist und eine seitliche Öffnung (18) für den Bolzen der Schusswaffe aufweist. Dieser Behälter besteht aus einem Rahmen (14) mit einer Eingangsbuchse und einer zu dieser senkrecht ausgerichteten Ausgangsbuchse. Diese sind mit zwei Befestigungen (15) verbunden, deren Endstücke ein Koppeln und Abkoppeln am Halter (1') und einer Abdeckung (16) in Beutelform ermöglichen. Diese Abdeckung umhüllt den Rahmen (14) auf einer Seite und hat auf der anderen Seite einen Zugangsport (17), der mit einem Öffnungs- und Schließungssystem mit Klettverschluss oder einem ähnlichem Material ausgestattet ist.

2. Der Patronenhülsenbehälter nach Darstellung 1 ist dadurch charakterisiert, dass die Befestigungen (15) flexibel und deren Endstücke an entgegengesetzten Seiten auf einer zur Basis des Rahmens (14) parallelen Achse positioniert sind. Auf diese Weise können sie gespannt und an die Öffnungen (11) des Halters (1') gekoppelt oder von ihnen entkoppelt werden.
3. Der Patronenhülsenbehälter nach Darstellungen 1 und 2 ist dadurch charakterisiert, dass die Endstücke der Befestigungen (15) innerhalb der Öffnungen (11) des Halters drehbar sind und in den Halterungshaken (12) eingefügt werden, um den Behälter (13) zu sichern.
4. Der Patronenhülsenbehälter nach Darstellung 1 ist dadurch charakterisiert, dass die Haftungsvorrichtung der Halterung einen Magneten aufweist.
5. Der Patronenhülsenbehälter nach Darstellung 1 ist dadurch charakterisiert, dass die Haftungsvorrichtung der Halterung eine Saugglocke oder ein ähnliches Element aufweist.

Revendications

1. Un conteneur de la réception de casquettes de balles, pour la collecte de casquettes de balle expulsés d'une arme à feu après la décharge, **caractérisé en ce que** c'est un conteneur amovible et se compose essentiellement d'une première tranche de fixation comprenant un support (1') en incluant un visage postérieur branché sur un élément d'adhérence (9) pour fixer à la surface du bras et un face avant, équipé d'un système de fixation et d'ancrage, essentiellement constituée de deux broches qui sont disposées sur la surface de la face avant (10) avec un trou central (11) qui s'étend dans un axe parallèle à l'appui de base (1') et dans au moins une des broches (10), une fixation et une rétention de capture (12) et il compte sur une deuxième portion de stockage formée par un récipient approprié (13) couplé à le conteneur de la réception de casquettes de balles pour la collection de casquettes qui comprend une ouverture (18) d'un côté pour le pas du boulon du bras, le dit container s'arrange d'un cadre (14) comprenant une entrée et une sortie qui est disposée perpendiculairement à l'entrée, qui est relié à deux appareils (15) les pièces de l'extrémité sont capables d'avoir un accouplement et un découplage à l'égard de l'appui (1') et une couverture (16) en forme du sac, qui enveloppe le cadre (14) d'une extrémité et a dans l'autre extrémité un port d'accès (17) pourvu d'un système d'ouverture et de la fermeture comme de Velcro TM ou un matériel similaire

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2. Le récipient récepteur de casquettes de balle selon la revendication 1, **caractérisé en ce qu'**accessoires (15) sont souples et leurs dernières pièces sont dans des positions opposées, autour d'un axe parallèle à la base de la structure (14), donc il peut être serrée et attaché ou détaché à l'intérieur des trous (11) du support (1').

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3. Les récepteurs récipients de casquettes de balle selon les revendications 1 et 2, caractérisé dans les parties finales des accessoires (15) sont capables de tourner dans les trous (11), de soutien et être introduits dans la capture de rétention (12) pour s'assurer que le conteneur) (13).

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4. Le récipient récepteur de casquettes de balle selon la revendication 1, caractérisé parce que l'adhérence de l'élément de soutien comprend un aimant.

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5. Le récipient récepteur de casquettes de balle selon la revendication 1, caractérisé qu'appui adhérence point comprend une ventouse ou un autre élément similaire.

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Fig 1

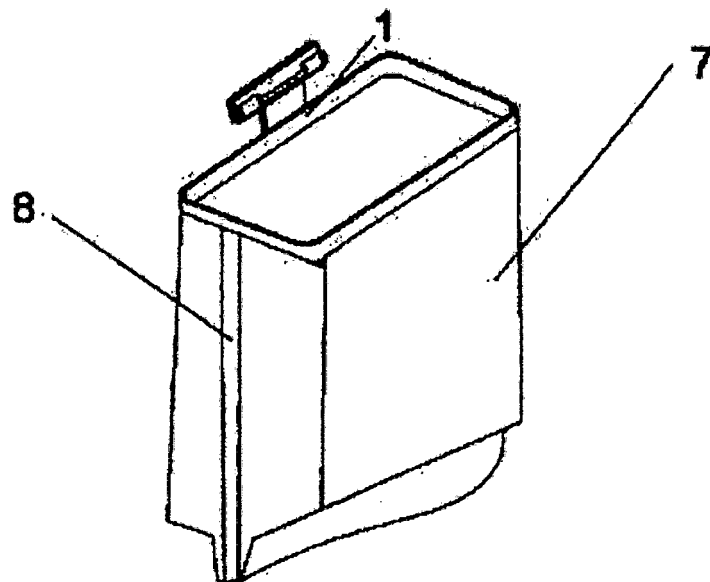


Fig 2

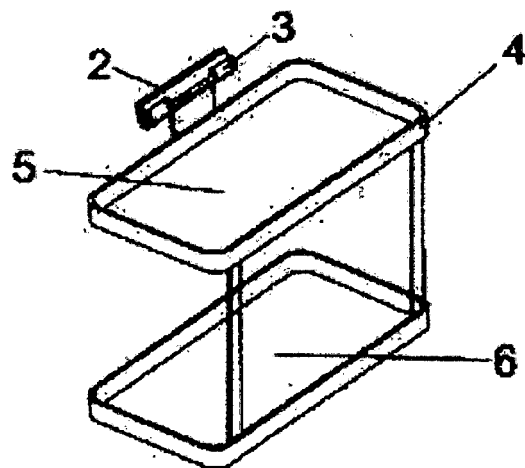


Fig 3

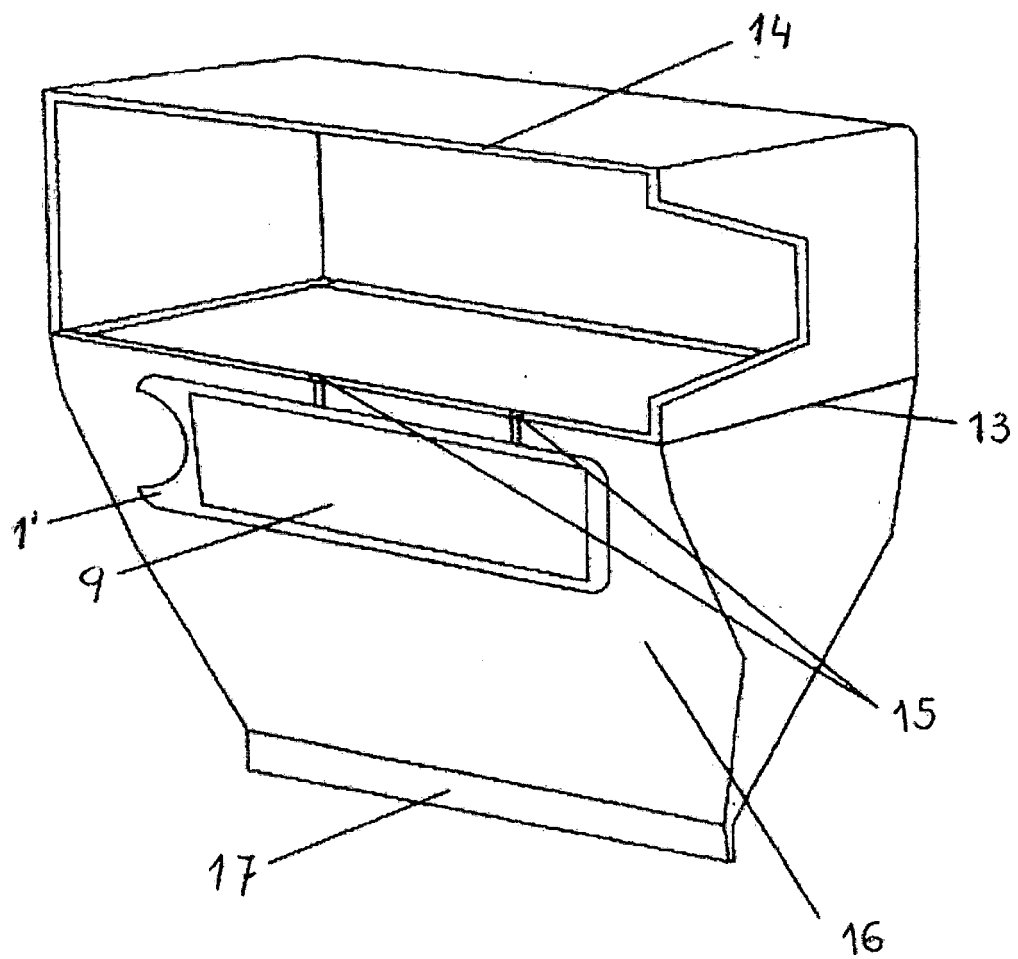


Fig 4

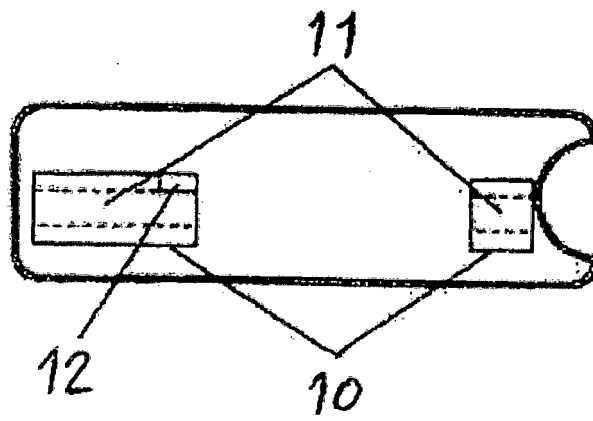
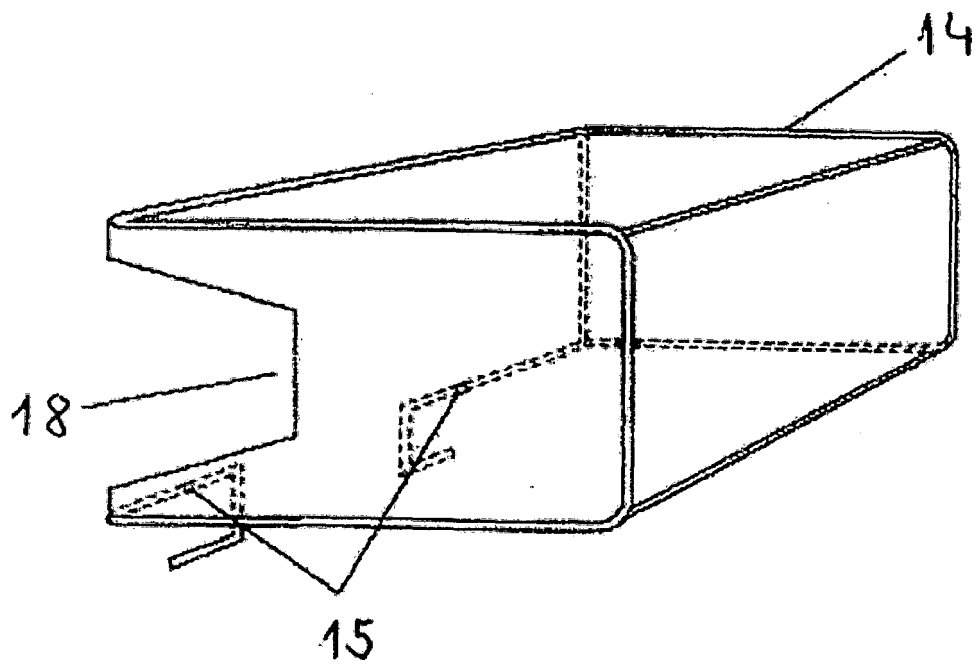


Fig 5



REFERENCES CITED IN THE DESCRIPTION

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