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(54) **A device for the collection of shotgun cartridges**

(57) A device for the collection of shotgun cartridges, in shotguns with automatic expulsion of cartridges, having a fixing component (7) to the shotgun, a mouth (9) of a collection channel (4) located above the used

cartridge expulsion area or mouth and a collection bag (5) for said cartridges, adapted to a lower mouth (10) of said collection channel (4), such that the shape and position of the mouth (9) is basically fixed with respect to said cartridge expulsion mouth (2).

EP 0 918 203 A2

Description

[0001] The technique of this utility model is used in the sector manufacturing shotgun accessories.

[0002] There are several types of shotgun. Cartridges are loaded and unloaded in some of them by opening thereof, removing the empty cartridge remaining in the gun after the previous shot and replacing it for a new one. In this type of shotgun, once the cartridge is in one's hand, it is easy and comfortable to put the used cartridge in a suitable bag preventing it from falling on the ground. Another type of shotgun, more and more frequently used, are automatic ones, in which a series of cartridges may be loaded and fired consecutively without needing to reload until they have all been fired. Said cartridges are eliminated by their expulsion after each shot, such that their collection is hindered and often impossible.

[0003] Moreover, the recent environmental legislation demands that the cartridges be collected and if not the corresponding fine is imposed. A method to ascertain the number of cartridges left in the countryside is by the number of pieces collected or if the officer imposing the fine were nearby and had heard the shots.

[0004] To solve the problem of collection a device has been designed to collect cartridges expelled from automatic shotguns which otherwise, due to their high temperature and their dropping to the ground, would oblige a person not only to bend over and pick them up, but also to wait for them to cool down.

[0005] The purpose of this invention is a device to collect used cartridges expelled from automatic shotguns, solving the aforementioned disadvantages, providing great ease of use.

[0006] To make the explanation easier to follow, this descriptive report is accompanied by two pages of drawings which, by means of three figures represent the essence of this invention.

[0007] Figure 1 shows a general view in perspective of a shot gun with the device, purpose of this invention.

[0008] Figure 2 show a detail of the device, purpose of this invention in which the shotgun barrel is shown, to which the cartridge collection device, purpose of this invention, is fixed, in which the collection bag is joined to the support by means of pressure buttons and closed with a zip.

[0009] Figure 3, shows a second execution in which the closing and fixing components have been substituted by a fabric adhesion technique (Velcro®).

[0010] In said figures, 1 is the shotgun barrel, to which the used cartridge collection bag and the support thereof are joined to a support 3. Said support holds a collection channel 4 whose mouth 9 is opposite the expulsion zone 2 of the cartridge in the shotgun. The cartridge collection bag 5, is joined to a cap or support, in turn forming the collection channel, either statically or such that it may be detached by means of 11/12 buttonhole or pressure buttons, zip, textile adhesion means 15 or any other suitable method.

[0011] The collection channel 4 is joined to the shotgun barrel 1, by means of a pressure component maintaining a certain rigidity and stability in its position, having, for example, a closing hoop 7, having at one of its ends a flange joined to a closing ring 6. Any other pressure closing method may be likewise used provided stability is maintained in the mouth position 9. Said position is maintained across the support 7 union 8 to the collection channel body 4.

[0012] During its exit run, the cartridge, accompanied by a certain amount of heat, is projected against said collection channel 4, whose upper cover has a curvature, such that it forms a lower mouth 10 to which the bag 5 mouth 13 is joined.

[0013] The collection bag, preferably of fabric, may have a practical opening. In the drawing it has been located in the lower part, but any other position is equally valid, provided it serves to easily empty the cartridges deposited there.

[0014] The variation of shape and sizes not essentially affecting this invention should be understood as included within this protection.

[0015] It is of industrial application for the manufacture of shotgun accessories.

Claims

1. A device for the collection of shotgun cartridges in shotguns with automatic cartridge expulsion, characterized for having a fixing component (7) to the shotgun, a mount (9) of a collection channel (4) located over the expulsion area or mouth of the used cartridges and a collection bag (5) for said cartridges, adapted to a lower mouth (10) of said collection channel (4) is mainly fixed with respect to said cartridge expulsion mouth (2).
2. A device for the collection of shotgun cartridges, characterized according to claim 1, because the fixing component (7) of the latter to the shotgun barrel (1) is formed by a clamp or closing hoop with a flange and a fastening ring, which in its position of use grips said barrel.
3. A device for the collection of shotgun cartridges, characterized, according to claim 1, because the collection bag (5) is of fabric.
4. A device for the collection of shotgun cartridges, characterized according to claims 1 and 3, because the collection bag (5) is joined to the lower mouth (10) forming the collection channel (4) statically, by means of fastening and separation, such as buttonhole or pressure buttons, zips, fabric adhesion and so on.
5. A device for the collection of shotgun cartridges,

characterized, according to claims 1 and 3, because the collection bag (5) has means of opening (14) for the emptying thereof.

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