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L. RINGDAL

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CARTRIDGE

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FIG. 1

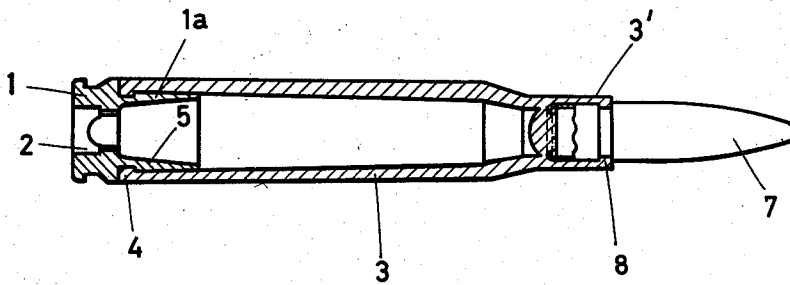
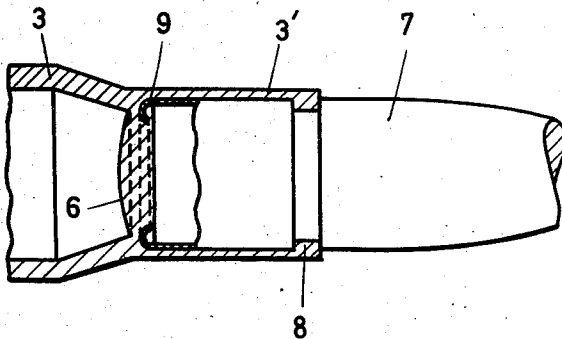


FIG. 2



INVENTOR
LARS RINGDAL

BY *Wunderoth, Lind & Ponack*
Attys.

1

2,862,446

CARTRIDGE

Lars Ringdal, Oslo, Norway, assignor to Kupag Kumststoff-Patent-Verwaltungs A.-G., Zug, Switzerland

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4 Claims. (Cl. 102—38)

The present invention relates to an ammunition cartridge intended to be used in rifles, shot-guns, automatic guns or other types of arms.

More particularly the invention relates to a cartridge of the type comprising a base member having a tubular extension and a case integrally moulded from elastic, plastic material such as polyvinyl chloride or polyethylene and telescopically enclosing the said tubular extension.

One object of the invention is to adapt a cartridge of the type described for use as live ammunition by particularly constructing the front end of the case in such a way that a secure anchoring of a projectile in the said front end is provided.

According to one feature of the invention the said case is closed at its front end by a radial partition wall which is moulded integrally with the case and has such a thickness that it may serve as a reinforcement of the front end of the case and as an anchoring for a projectile secured at the said front end.

According to a further feature of the invention the projectile is moulded fast in the front end at the same time as the latter is moulded or cast in one piece.

According to a still further feature of the invention the rear end of the envelope of the projectile is bent or flanged and embedded in the partition wall so as to obtain a secure and tight connection with the case.

It will of course be understood that the projectile is tightly enclosed by the walls of the front end of the case, and that as known per se the case may be provided with a bead or flange which engages a corresponding groove in the projectile to further secure the connection between the case and the projectile.

Other features of the invention will appear from the following description with reference to the accompanying drawing, in which:

Fig. 1 is a longitudinal section of a cartridge according to the invention.

Fig. 2 is an enlarged section of the front end of the cartridge shown in Fig. 1.

In Fig. 1, 1 designates a cartridge base which may consist of metal and which has a tubular extension 1a and a recess 2 for accommodating a percussion cap. A case 3 which has the shape of a tube closed at the front end, is connected with the base by being slid telescopically

2

over the tubular extension 1a. It has been shown that the connection between the members may be sufficiently secured when the two members are pressed together with a certain friction, but for further securing of the connection between the members and specially for guiding the members when assembling the same, the case 3 adjacent to the base has a circumferential flange 4 which engages a corresponding groove 5 in the base 1.

The construction according to the invention of the front end of the cartridge will appear more clearly from Fig. 2.

The cartridge case 3 proper is suitably produced from a soft elastic material such as polyethylene or polyvinyl chloride. 6 designates a radial partition wall which separates the rear portion of the case 3 from a front portion 15 in which the projectile 7 is secured. In the embodiment shown, the projectile 7 is moulded or cast in the front end 3' of the case by being moulded together with the case at the same time as the latter is moulded in one piece. For securing the projectile the front end of the case is provided with a bead or flange 8, which engages a corresponding groove in the projectile. The rear end 9 of the envelope of the projectile is bent in, as shown, and moulded into i. e. embedded in the partition wall 6, so that the projectile is secured and tightly connected with the case. The partition wall 6 may at its circumference suitably be weakened for example by score lines, notches or the like (not shown), so that it may be easily blown out together with the projectile.

It will be seen that the partition wall in addition to serve as an anchoring for the envelope of the projectile also serves as a bracing of the forward end of the case 3.

I claim:

1. A cartridge comprising a base member, a percussion cap in the base member, a case member integrally moulded from elastic, plastic material connected with said base member with a tight fit, a radial partition wall provided as an integral part of said case member at the front end thereof, and a projectile comprising an envelope secured in front of said partition wall, said partition wall having a thickness so that it may serve as an anchoring for said envelope of the projectile, and the rear end of said envelope being flanged and embedded in said partition wall.

2. A cartridge as set forth in claim 1 wherein said partition wall at its circumference has weakening score lines.

3. A cartridge as set forth in claim 1, wherein said partition wall at its circumference has weakening notches.

4. A cartridge as set forth in claim 1 wherein weakening means are provided in said partition wall at its circumference.

References Cited in the file of this patent

UNITED STATES PATENTS

2,440,568	Arter	Apr. 27, 1948
2,476,291	Garber	July 19, 1949
2,654,319	Roske	Oct. 6, 1953

FOREIGN PATENTS

1,094,753	France	Dec. 8, 1954
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