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SIGHTING DEVICE FOR A RIFLE GRENADE

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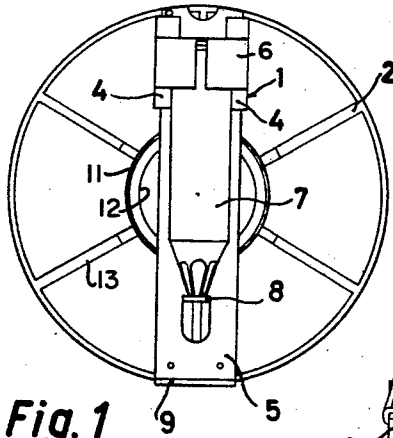


Fig. 1

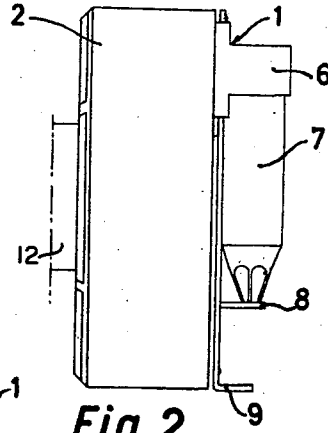


Fig. 2

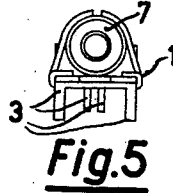


Fig. 5

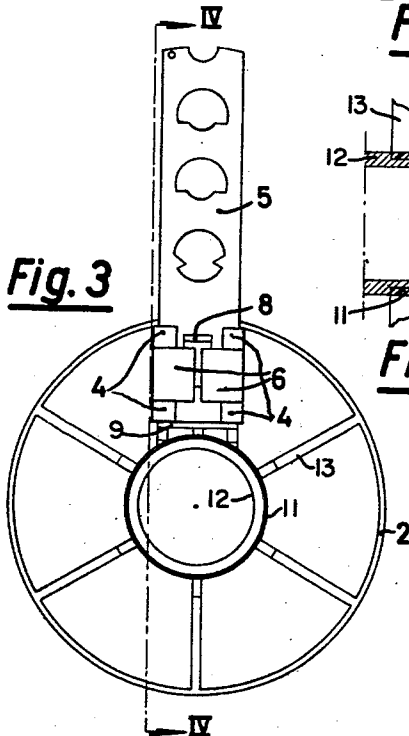


Fig. 3

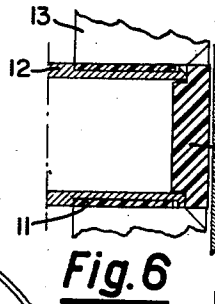


Fig. 6

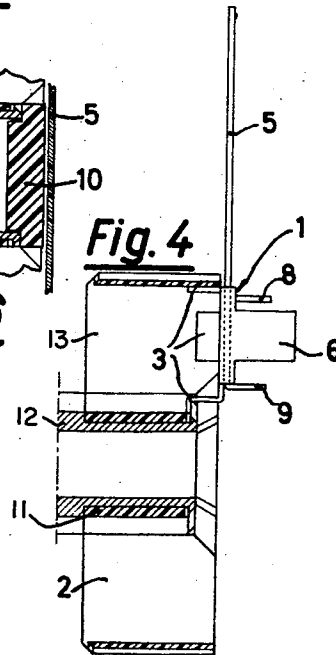


Fig. 4

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SIGHTING DEVICE FOR A RIFLE GRENADE

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5 Claims. (Cl. 102—65.2)

This invention relates to an aiming or sighting device for a rifle grenade.

Rifle grenades are generally fired by means of a firing sleeve fitted at the end of the barrel of the weapon and having a sight or aiming grid provided with reference marks.

Firing by means of the same weapon, of grenades of different types (anti-tank, anti-personnel, smoke-producing, and so on), the respective weight, shape and initial speed of which are often different, requires the use of a sight provided with several series of references which often make reading confused, thus increasing the risk of error.

It has already been proposed to overcome this difficulty by providing each grenade with a suitable removable sight which is released when the shot is fired. Before firing, this sight is housed either in the packing of the grenade or in the tail of the latter. The same is true of the firing cartridge, which is generally accommodated before firing in the tail of grenade or on a plug obturating the latter.

One of the main disadvantages of these removable sights is their positioning, which calls for an additional operation on the part of the marksman (which is often difficult in cold weather) and a loss of time which substantially reduces the speed of firing.

According to the present invention there is provided a sighting device for a rifle grenade provided with a tail fin structure, wherein the device comprises a support which is adapted to be temporarily fixed to the said fin structure and which carries a sight which is movable in relation to the said support between a storage position and an aiming position, the said support also comprising means for holding a firing cartridge.

Various technical advantages arise from this device, among which should be mentioned the simplification of handling by the marksman, who has only one operation to carry out; the placing of the movable sight in the sighting position, the cartridge being extracted simultaneously and by the same movement.

The support includes two guides in which the sight is adapted to slide perpendicularly to the axis of the grenade.

The movable sight preferably has a stud which, when the sight is moved towards its aiming position, bears against the cartridge in order to free it from the cartridge-holding means.

In the storage position the said sight may at least partly obturate the end of the tail of the grenade, so that in this position the marksman could not inadvertently place the grenade on its sleeve without having placed the sight in the aiming position.

Furthermore the sight when in the storage position may hold in place a plug obturating the tail of the grenade.

Preferably the length of the movable sight is substantially equal to the diameter of the fin structure, so that the above-described sighting device does not exceed the dimensions of the fin structure when the grenade is stored in its packing.

In order to enable the invention to be more readily

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understood, reference will now be made to the accompanying drawings, which illustrate diagrammatically and by way of example one embodiment thereof, and in which:

FIGURE 1 is a rear end view of a rifle grenade having a sighting device which is shown in a storage position, FIGURE 2 is a side view showing the device in the same position as in FIGURE 1,

FIGURE 3 is a view similar to FIGURE 1 showing the device in the aiming position,

FIGURE 4 is a section along the line IV—IV in FIGURE 3,

FIGURE 5 is an end view of the device in the storage position, separated from the fin structure, and

FIGURE 6 is a partial view in axial section corresponding to FIGURE 2.

Referring now to the drawings, there is shown the fin structure of a rifle grenade carrying a sighting device. The circular fin structure 2 comprises a central sleeve 11 adapted to be fitted to the tail 12 of the grenade. The fin structure includes a plurality of radial stabilizing fins 13. A support 1 is slidably and removably attached to one of said fins by feet 3, this support 1 being provided with guides 4 in which a movable sight 5 is adapted to slide. The support 1 also comprises a clip 6 adapted to hold a blank cartridge 7 intended for firing the grenade.

In the storage position illustrated in FIGURES 1 and 2, the movable sight 5, which is of a length substantially equal to the diameter of the fin structure 2, is situated behind and opposite the said fin structure, while the fixing means or clip 6 holds the firing cartridge 7 which bears against a stud 8 provided on the sight 5.

In order to bring the sight into the aiming position, a curved end stop 9 of the sight is pushed so as to cause it to slide in the guides 4 until the end 9 strikes against the lower guides 4 on the support 1.

During this movement, the stud 8 bears against the end of the cartridge 7 and releases it from the clip 6, which enables the marksman to seize it easily. It is to be observed that the grenade cannot be introduced into the rifle barrel unless the sight is in the aiming position, so that forgetfulness or improper positioning of the sight is thus avoided.

As shown in FIGURE 6, a plug 10 closes the tail of the grenade in order to prevent the penetration of any foreign bodies during transport and handling, the plug 10 being simply placed and not forced into the tail of the grenade and being held in place by the sight 5 so that it will fall out of its own accord when the sight is placed in the aiming position.

When the grenade is fired, the entire device is detached from the fin structure through its own inertia, and the thrust of the air against the sight 5.

What I claim is:

1. A sighting device for a rifle grenade having a tubular tail ending in a radially disposed fin, said device comprising a support detachably held by said fin, guiding means on said support and a movable sight slidable radially in said guiding means and into operating position.

2. A sighting device for a rifle grenade having a tubular tail ending in a radially disposed fin, said device comprising a support detachably held by said fin, guiding means on said support, a movable sight slidable radially in said guiding means and a stop on the rear end of the sight to engage the guiding means when in operating position.

3. A sighting device for a rifle grenade having a tubular tail ending in a radially disposed fin, said device comprising a support detachably held by said fin, guiding means on said support, a cartridge clip on said guiding means and a movable sight slidable radially in said guiding means and into operating position.

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4. A sighting device for a rifle grenade having a tubular tail ending in a radially disposed fin, said device comprising a support detachably held by said fin, guiding means or said support, a cartridge clip on said guiding means, a movable sight slidable radially in said guiding means, and a stud on the sight for ejecting a cartridge from the clip.

5. A sighting device for a rifle grenade having a tubular tail ending in a circular fin structure having a radially disposed fin, said device comprising a support detachably held by said fin, guiding means on said support and a movable sight substantially as long as the diameter of the

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fin structure and slidable radially in said guiding means across the tubular tail and into operating position.

References Cited by the Examiner

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FRED C. MATTERN, JR., *Examiner.*