



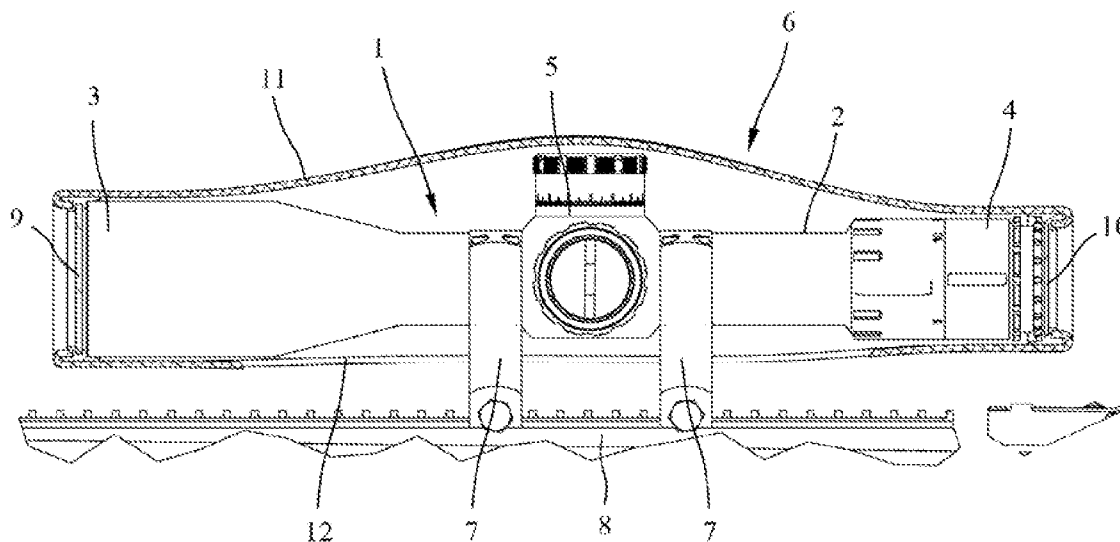
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KORTEMEIER(10) **Pub. No.: US 2016/0069641 A1**(43) **Pub. Date: Mar. 10, 2016**(54) **TELESCOPIC SIGHT PROTECTIVE COVER****Publication Classification**(71) Applicant: **GSO German Sports Optics GmbH & Co. KG**, Wetzlar (DE)(51) **Int. Cl.**
F41G 1/38 (2006.01)(72) Inventor: **Thorsten KORTEMEIER**, Braunfels (DE)(52) **U.S. Cl.**
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(57) **ABSTRACT**

A telescopic sight protective cover with a front disk-shaped end cover piece, a rear disk-shaped end cover piece, and a tubular sheathing, which includes a stretchable material and contains a slot-shaped opening for insertion of a telescopic sight. The front end cover piece and the rear end cover piece include a transparent material in order to enable use of the telescopic sight even without removing the cover.



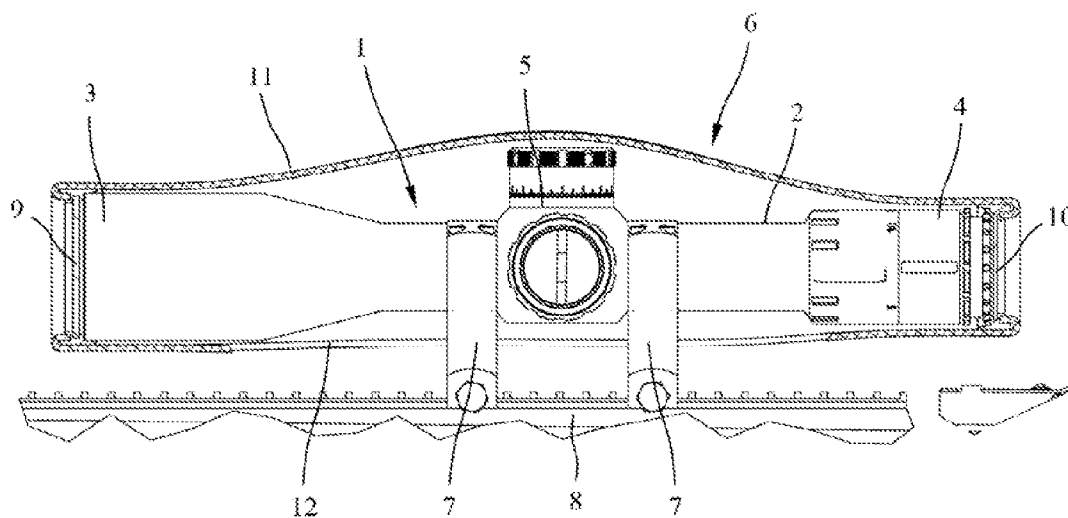


Fig. 1

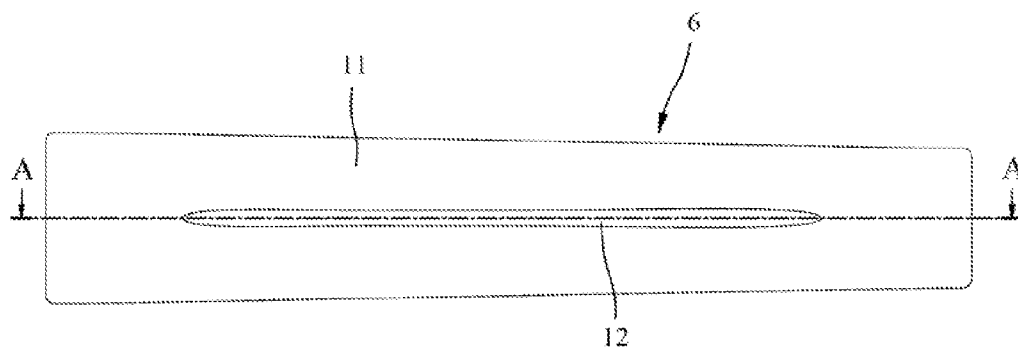


Fig. 2

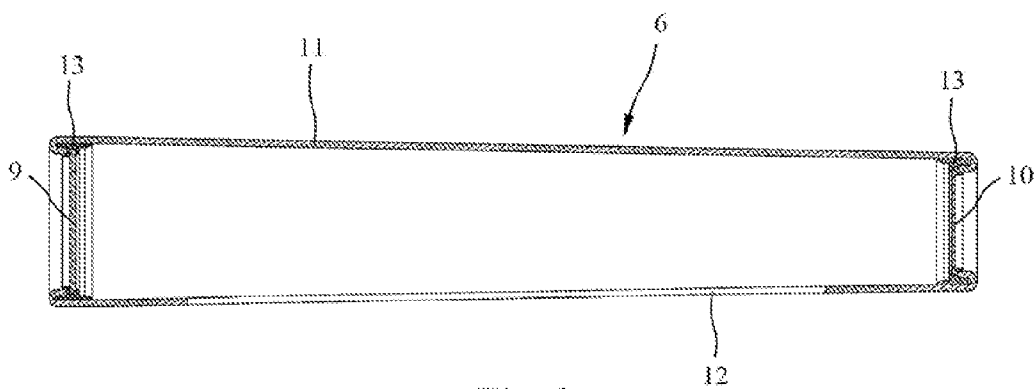


Fig. 3

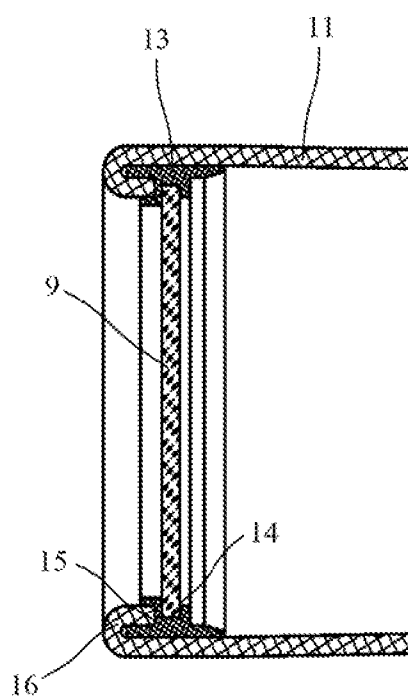


Fig. 4

TELESCOPIC SIGHT PROTECTIVE COVER

FIELD OF THE DISCLOSURE

[0001] The disclosure concerns a telescopic sight protective cover.

BACKGROUND

[0002] A telescopic sight ("scope") protective cover that contains a tubular sheathing consisting of a stretchable material with a front and rear disk-shaped end cover piece is already known from U.S. Pat. No. 5,661,920. However, in this known scope cover, the two objective-side and ocular-side end cover pieces are parts of the sheathing, which consists of neoprene laminated on both sides with a nylon fabric. However, since the two end cover pieces are not transparent, the scope cover must first be removed from the scope if the scope is to be used to make a shot.

SUMMARY

[0003] A scope cover that also enables the use of the scope without removal of the scope cover is disclosed. Expedient developments and advantageous embodiments are also disclosed.

[0004] In the case of the scope cover according to the disclosure, the front end cover piece and the rear end cover piece are made of a transparent material. Due to the transparent end cover pieces of the scope cover, the scope can be used even without removal of the cover, which is particularly advantageous for making a rapid shot when hunting under pressure or on the move. Since the scope cover can remain on the scope, the scope continues to be protected against environmental effects such as moisture, dirt, or solar heating, and also against mechanical effects such as impacts or rubbing against the clothing or equipment. Because the scope cover can remain on the scope, the danger of losing the cover due to constant removal and replacement of it, in particular in the hectic rush and excitement of a hunt, is reduced.

[0005] The front end cover piece that is intended to cover the objective lens and the rear end cover piece that serves to cover the ocular lens can expediently be made of transparent glass or plastic. In a particularly rugged embodiment that can optimally also be used under poor conditions, the transparent end cover pieces can be made of a scratch-resistant glass provided with an antifog coating.

[0006] The two disk-shaped end cover pieces are expediently affixed to the front and rear ends of the tubular sheathing via mounting rings. The mounting ring, which preferably consists of plastic, expediently has a receptacle for the end cover piece. The receptacle can be designed, for example, as an internal annular groove for accommodation of the end cover piece. The end cover piece could, however, also be screwed onto the mounting ring by means of a threaded ring.

[0007] Further, the mounting ring can have an end-side receiving groove for receiving a turned-under end of the sheathing. An additional protective function results at the ocular side due to the turned end of the sheathing. In particular when hunting under pressure or on the move, there is the risk that one cannot assume an optimum shooting position if one must shoot quickly. This in turn increases the risk, that the scope will bump up against the eye or the eyebrow. To reduce the risk of injury, part of the sheathing can be turned inward over the mounting ring.

[0008] For a reliable connection, the sheathing can be glued to the mounting ring. However, the sheathing can also (exclusively or in combination with gluing) be stitched to the mounting ring or can be affixed to it in some other way. The connection can, for example, also be made by crimping or the like.

[0009] The sheathing expediently consists of a synthetic rubber. A chloroprene rubber known under the trade name Neoprene proved to be a particularly expedient material. It has good chemical stability, good resistance to embrittlement and weathering, excellent insulation properties, and a good protective effect for protecting the scope from damage.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] Additional features and advantages of the disclosure will become apparent from the following description of a preferred embodiment by means of the drawings. Here:

[0011] FIG. 1 shows a scope with a scope cover in a lengthwise section;

[0012] FIG. 2 shows a scope cover in a bottom view, and;

[0013] FIG. 3 shows a scope cover in a lengthwise section along line A-A in FIG. 2, and

[0014] FIG. 4 shows an enlarged view of the front part of the scope cover shown in FIG. 3 in a sectional view.

DETAILED DESCRIPTION

[0015] FIG. 1 shows a substantially known scope 1 with a housing 2, an objective lens 3, an ocular lens 4, and an adjustment tunnel 5 disposed in the middle of the housing 2 for sighting adjustment or the like. A scope cover 6, shown in a lengthwise section, is mounted on the scope 1. The scope 1 is affixed in a substantially known way via a scope mount 7 on a mounting bar 8 of a handgun.

[0016] The scope cover 6 shown separately in FIGS. 2 and 3 has a front disk-shaped end cover piece 9 for placement on the objective lens 3, a rear disk-shaped end cover piece 10, and a tubular sheathing 11 for complete coverage of the scope 1. In the slightly conical tubular sheathing shown in this embodiment, there is a narrow slot 12, shown in FIG. 2, for insertion of the scope 1.

[0017] The tubular sheathing 11 is made of a stretchable and weather-resistant material. A chloroprene rubber known under the trade name Neoprene proved to be a particularly expedient material for the tubular sheathing 11. It is characterized by chemical stability, good resistance to embrittlement and weathering, excellent insulation properties, and a good protective effect for protecting the scope against damage. This material is also flexible and can be stretched, so that the scope cover 6 can be mounted on the scope 1 under tension and the sheathing 11 can match the outer contour of the scope 1.

[0018] The objective-side front end cover piece 9 and the ocular-side rear end cover piece 10 are made of glass, transparent plastic, or another transparent material. In a particularly advantageous embodiment, the two end cover pieces 9 and 10 can be made as glass disks of a scratch-resistant glass that has been provided with an antifog coating. The two disk-shaped circular end cover pieces 9 and 10 are each secured in the sheathing 6 by a plastic mounting ring 13.

[0019] For this, the mounting ring 13 shown in FIG. 4 has a receptacle 14 that matches the outer contour of the disk-shaped end cover piece 9 and that is made here as an inner annular groove for end cover piece 9, and an end-side receiv-

ing groove **15** for holding the turned-under front end **16** of the sheathing **11**. The front end **16** of the sheathing **11**, which consists, for example, of a neoprene tube, can be turned under, pushed into the end-side receiving groove **15**, and glued into it. Also, the mounting ring **13** disposed within the sheathing **11** can be glued to the sheathing **11** on its outer side. The rear end cover piece **10** is connected to the sheathing **11** via a corresponding mounting ring **13** and in a corresponding way. [0020] All references cited herein are expressly incorporated by reference in their entirety. In addition, unless mention was made above to the contrary, it should be noted that all of the accompanying drawings are not to scale. There are many different features to the present disclosure and it is contemplated that these features may be used together or separately. Thus, the disclosure should not be limited to any particular combination of features or to a particular application of the disclosure. Further, it should be understood that variations and modifications within the spirit and scope of the disclosure might occur to those skilled in the art to which the disclosure pertains. Accordingly, all expedient modifications readily attainable by one versed in the art from the disclosure set forth herein that are within scope and spirit of the present disclosure are to be included as further embodiments of the present disclosure.

What is claimed is:

1. Telescopic sight protective cover with a front disk-shaped end cover piece, a rear disk-shaped end cover piece and a tubular sheathing which is made of a stretchable material and contains a slot-shaped opening for insertion of a

telescopic sight, wherein the front end cover piece and the rear end cover piece are made of a transparent material.

2. Telescopic sight protective cover according to claim 1, wherein the front end cover piece and the rear end cover piece are made of glass or a transparent plastic.

3. Telescopic sight protective cover according to claim 1, wherein the front end cover piece and the rear end cover piece are made of a scratch-resistant glass provided with an antifog coating.

4. Telescopic sight protective cover according to claim 1, wherein the front end cover piece and the rear end cover piece are each affixed to the front and rear ends of the sheathing via a mounting ring.

5. Telescopic sight protective cover according to claim 4, wherein the mounting ring contains a receptacle for the end cover piece.

6. Telescopic sight protective cover according to claim 5, wherein the receptacle is made as an internal annular groove.

7. Telescopic sight protective cover according to claim 4, wherein the mounting ring contains an end-side receiving groove for receiving a turned-under end of the sheathing.

8. Telescopic sight protective cover according to claim 4, wherein the sheathing is firmly bonded to the mounting ring.

9. Telescopic sight protective cover according to claim 8, wherein the sheathing is glued to the mounting ring.

10. Telescopic sight protective cover according to claim 1, wherein the sheathing is made of a synthetic rubber, in particular a chloroprene rubber.

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