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H. N. SMITH

2,328,035

SNOW RING OR WHEEL

Filed Oct. 28, 1941

Fig. 1

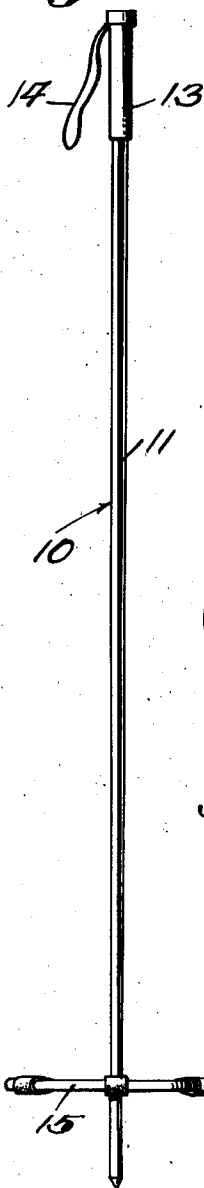


Fig. 2

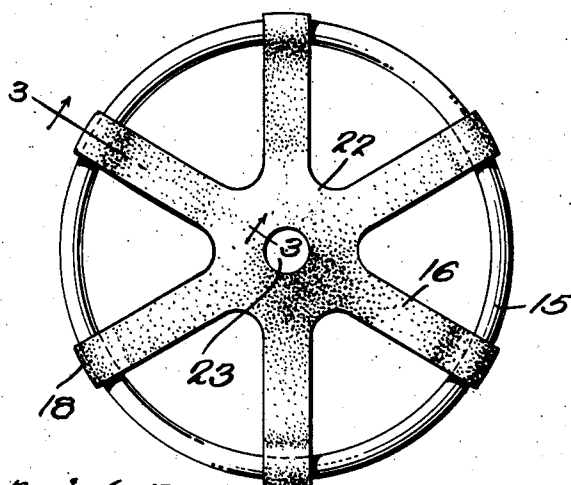


Fig. 3

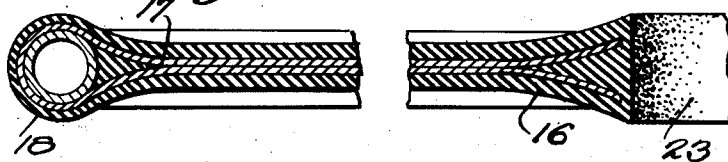


Fig. 4

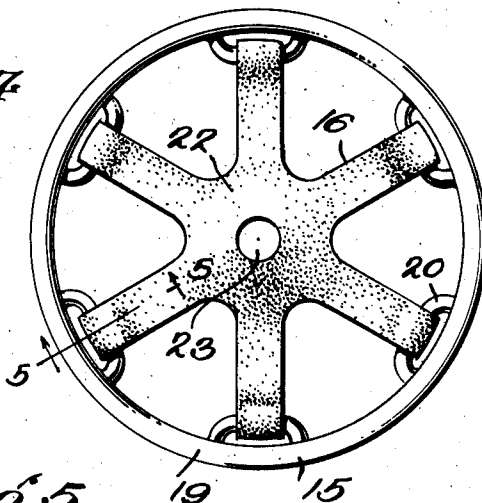
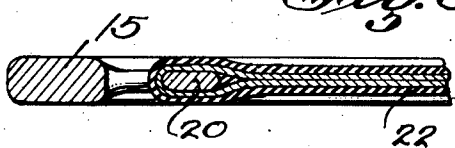


Fig. 5



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UNITED STATES PATENT OFFICE

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SNOW RING OR WHEEL

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Application October 28, 1941, Serial No. 416,808

2 Claims. (Cl. 280—11.37)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The invention described herein, if patented, may be manufactured and used by or for the Government for governmental purposes without the payment of any royalty thereon.

This invention relates to ski poles or skiing equipment and more particularly to the provision of an improved snow ring or wheel.

An object of this invention is to provide a ski pole having a snow ring or wheel which can be readily attached or removed.

Another object of this invention is to provide a snow ring or wheel that is light in weight, that will not become water-soaked and freeze or become brittle.

A further object of this invention is to provide a snow ring or wheel that is simple in construction and easy to manufacture.

A further object of this invention is to provide a snow ring or wheel that will not require any rivets or other attaching means to anchor the ring against displacement.

With the above and other objects and advantages in view, this invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described, claimed and illustrated in the accompanying drawing forming part of this application and in which similar characters and references indicate identical parts thereof and in which:

Fig. 1 is a side elevation of the embodiment of the invention.

Fig. 2 is a top plan view of the snow ring or wheel.

Fig. 3 is a sectional view of the same on line 3—3 of Fig. 2.

Fig. 4 is a top plan view of a modified form of snow ring or wheel.

Fig. 5 is a sectional view of the same on line 5—5 of Fig. 4.

Reference now being had to the drawing by numeral, 10 indicates the ski pole, which consists of a shaft or rod 11, snow ring or wheel 12 and hand grip 13, having a strap 14 secured thereto.

The ring 12 in general as shown in Figs. 1 and 2, comprises a ring 15 of tubular metallic formation, which, as shown, is circular in cross-section, although it might be any shape desired.

It is an important feature of this invention that the spokes 16 be made of rubber vulcanized on a cotton carcass 17. One advantage of this construction is that the entire wheel may be molded

as a unit. Rubber is a particularly desirable material, since it can be easily molded and is highly resistant to water and wear. The resiliency of the rubber spokes of the wheel tend to free it from snow and any ice incrustations that might form thereon and since rubber is impervious to water the ring or wheel will not become water-soaked and freeze, thereby becoming brittle, and cracking or breaking under strain. The rubber snow rings now in use are not strong or dependable and this particular ring has been devised to overcome these old drawbacks.

As shown at 18 in Fig. 2 the spokes 16 are molded directly to and around the ring 15 while in Fig. 4 the ring 15 is provided with flat surfaces and spoke anchors 20 to receive the spokes 16. This form gives somewhat greater flexibility but otherwise differs very little from the action provided by the ring construction shown in Fig. 1. The spokes 16 are provided with hub portions 22 having an opening 23 therein to receive the shaft 11.

The structure thus described is stronger than a plain rubber ring and is practically indestructible.

It is to be understood that the illustrations shown are given by way of illustration only and not by way of limitation, and that changes and modifications may be made without departing from the spirit of the invention or fall beyond the scope of the appended claims.

Having thus described the invention, what is claimed as new and desired to secure by Letters Patent is:

1. A ski pole having a snow ring comprising a tubular ring, rubber spokes having a cotton carcass molded integrally with said ring, said spokes having a hub portion adapted to receive the ski pole, said cotton carcass having a U-shaped formation with both ends terminating within said hub portion.

2. A ski pole wheel comprising a tubular ring, rubber spokes molded on a cotton carcass integrally with said ring, said spokes having a hub portion adapted to receive a ski pole, said cotton carcass having a U-shaped formation, the ends thereof terminating in the hub portion of said ring, said cotton carcass also adapted to contact said ring to prevent wear on the interior of said spokes.

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