

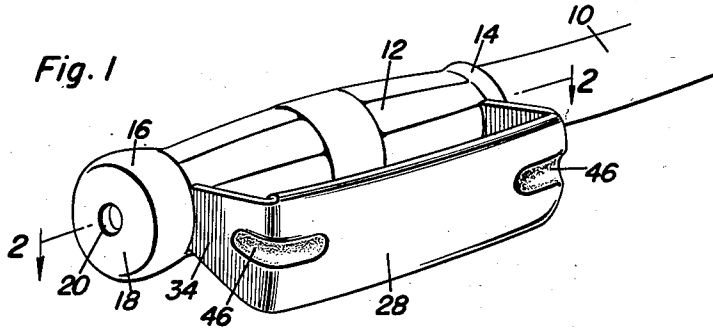
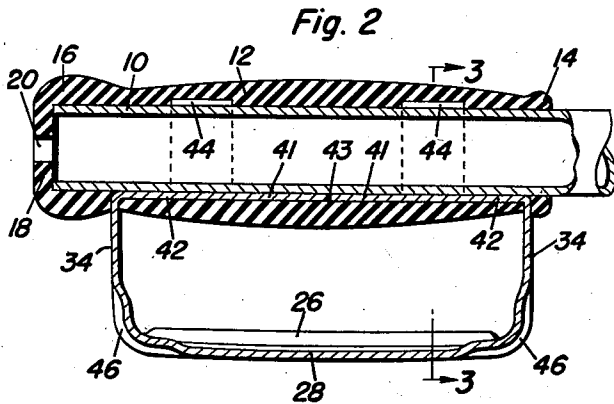
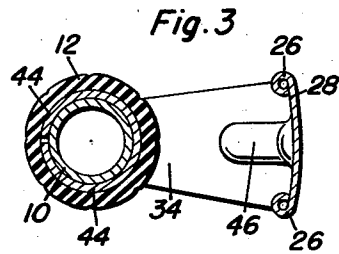
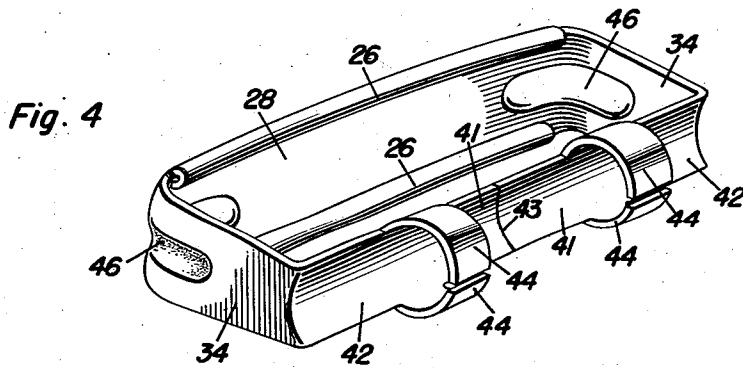
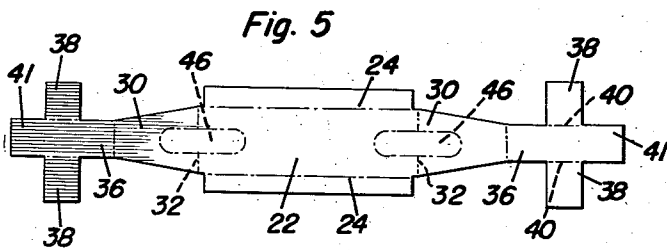
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HAND PROTECTOR GRIP

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HAND PROTECTOR GRIP

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8 Claims. (Cl. 2—17)

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This invention comprises novel and useful improvements in a hand protector grip and more specifically pertains to a combined grip and hand guard for engaging the end of a rod to form a handle.

The principal object of this invention is to provide an improved hand grip together with a hand guard forming a part thereof.

A still further object of the invention is to provide a combined hand grip and hand guard having an improved interlocking attachment with each other.

A further object of the invention is to provide an improved hand protector grip which shall be economically and expeditiously formed from a single sheet metal blank and a single sleeve of cushioning material and combined in an improved manner.

Yet another object of the invention is to provide a combination hand grip and hand protector in which the latter assists in maintaining the grip on a handle; and serves to reinforce and strengthen the material of the grip itself.

Yet another important object of the invention is to provide an improved hand protector and grip which shall materially enhance and augment the safety of the user particularly when employed as a handle for bicycles and the like for night driving.

These, together with various ancillary features and objects of the invention, which will later become apparent as the following description proceeds, are attained by the present invention, a preferred embodiment of which has been illustrated, by way of example only, in the accompanying drawings, wherein:

Figure 1 is a perspective view showing one suitable construction of the combined hand protector and hand grip in which the principles of this invention have been incorporated, the same being shown applied to one end of a rod-like handle;

Figure 2 is a longitudinal sectional view taken substantially upon the plane indicated by the section line 2—2 of Figure 1;

Figure 3 is a vertical transverse sectional view taken substantially upon the plane indicated by the section line 3—3 of Figure 2;

Figure 4 is a perspective view of the guard forming a part of the hand protector grip; and

Figure 5 is a plan or development view of a blank of sheet metal suitable for forming the guard of Figure 4.

Referring now more specifically to the accompanying drawings, wherein like numerals

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designate similar parts throughout the several views, it will be seen that the numeral 10 indicates a portion of a hollow tubular rod, which may be open at its outer end as shown in Figure 2, and which forms a handle for any desired implement, such as a bicycle, or the like. The hand grip forming a part of this invention comprises a more or less conventional tubular bushing or sleeve 12 of any suitable cushioning or moldable material such as soft rubber or the like, and which as shown in Figure 1, will be suitably contoured to comfortably and conveniently form a grip for the hand of a user, this grip having the customary annular rim 14 at one extremity, with an enlarged annular rim 16 at the other end which is provided with an end closure wall 18 adapted to be slidably received upon and embrace the open end of the rod 10, this end wall having an aperture 20.

As shown in Figures 2 and 4, the hand guard consists preferably of a sheet metal member, although the same may be formed of a suitable plastic or any other desired material. When formed of sheet metal, a blank, such as that shown in Figure 5, may conveniently be employed, the same consisting of a flat sheet metal having a substantially rectangular central portion 22 which has its marginal edges folded upon themselves as upon the dotted lines 24, to form the beads or reinforcing ribs 26 which depend from and are formed on the edges and underside of the main portion of the handle 28, the latter being preferably slightly bowed or curved in order to adapt the same to comfortably receive and conform to the hand of the user when placed upon the grip 12.

The central portion 22 at its ends is provided with tapering extensions or portions 30, which are adapted to be folded as upon the dotted line 32 and when so folded constitute the ends or legs 34 by which the guard is secured to and properly spaced from the hand grip 12.

Extending from the tapered portions 30 are terminal portions 36 from the opposite sides of whose outer ends extend lateral projections 38, the latter being adapted to be folded upon the dotted lines 40. When constructing the guard, the terminal portions 36 are folded back upon the central portion 22 and are curved to provide an arcuately shaped plate at each end or leg, this arcuate plate 42 having the enlargements 38 rolled upon themselves to provide the portions 44 which provide friction rings. The ends or legs 34 extend into the material of the hand grip 12 in any desired manner, with the arcuate plates

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42 disposed in abutting engagement with the sides of the handle 10, and with the ring sections 44 encircling and frictionally engaging the handle 10 as will be clearly apparent from Figure 2. Preferably, the sections 44 are of a resilient nature whereby the ring formed thereby will frictionally and resiliently clasp and engage and be slidably received upon the handle 10.

It is intended that the ring sections 44, the plate 42 and the ends of the legs 34 shall be embedded or molded in any desired manner in the material of the hand grip 12 to form an intimate securing bond with the same, and constitute a reinforcement for the material of the hand grip.

As will be particularly apparent from Figures 4 and 5, longitudinally extending depressions or grooves 46 are formed in the outer surface of the material of the central portion 28 and the tapering extensions 30 from which the legs 34 are formed. This depression in the completed article shown in Figure 4, and as shown in Figures 1 and 2, constitutes a reinforcement or strengthening means for the sheet metal material of the hand guard. Further, the same provides a recess for receiving a light directive material such as a reflecting coating of any desired nature or a self-luminous or phosphorescent coating for the purpose of emitting light rays in the dark.

While the foregoing construction will, in itself, prove satisfactory in many embodiments, it is deemed preferable to further provide endwise projecting tabs 41 on the ends of the metal blank of Figure 5, which when the blank is folded as in Figure 4, are welded together as at 43. This greatly strengthens the sheet metal handle assembly.

It will thus be seen that there has been provided a combined hand grip and guard which is provided with improved means for securing the two elements together, for reinforcing the hand grip and for effecting a better engagement of the same upon a handle. Further, when in use, the device particularly at night serves to increase the safety of the user when the device is employed as a handle for bicycles and the like, by rendering the handle more visible in the dark. Finally, the device is specifically designed for inexpensive construction from economical sheet metal material and the like.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art after a consideration of the foregoing specification and accompanying drawings, it is not desired to limit the invention to the exact construction shown and described, but all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having inturned ends secured to and embedded in and covered by said grip for uniting said guard and grip.

2. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having ends em-

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bedded in said grip for uniting said guard and grip, said ends having rings disposed between said grip and handle for slidably receiving and clamping a handle.

3. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having ends embedded in said grip for uniting said guard and grip, said ends having rings for slidably receiving and clamping a handle, said ends having portions extending longitudinally of and embedded in said grip for reinforcing the same and for engaging said handle.

4. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having ends embedded in said grip for uniting said guard and grip, said ends having inturned portions of arcuate cross section embedded in and covered by said grip for reinforcing the same.

5. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having ends embedded in said grip for uniting said guard and grip, said ends having inturned portions of arcuate cross section embedded in said grip for reinforcing the same, rings on the adjacent ends of said inturned portions, said rings being embedded in said grip and frictionally and slidably embracing said handle.

6. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having both ends provided with inturned portions secured to and embedded in said grip for uniting said guard and grip, said guard and ends having depressions extending longitudinally thereof.

7. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having inturned ends secured to and embedded in said grip for uniting said guard and grip, said guard and ends having depressions extending longitudinally thereof, said depressions containing a light directive material.

8. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having inturned ends secured to and embedded in said grip for uniting said guard and grip, said guard comprising a unitary sheet metal member having a central portion with side edges rolled upon itself to form longitudinal, marginal reinforcing beads, tapering portions on opposite ends of said central portion forming said ends and extensions on said tapering portions having lateral extensions forming rings.

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The following references are of record in the file of this patent:

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