C. J. TROPPMAN.

ARTICLE OF MANUFACTURE.

APPLICATION FILED AUG. 12, 1915.

1,184,792.

Patented May 30, 1916.

Fig. 1.

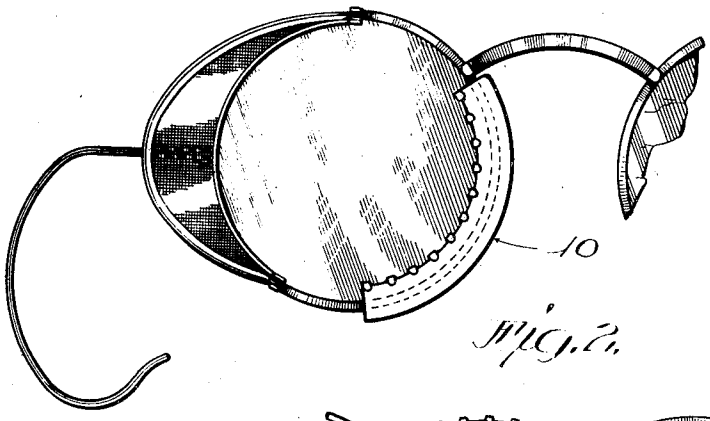


Fig. 5.

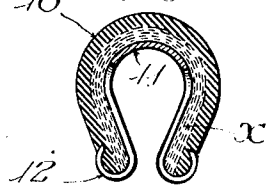


Fig. 6.

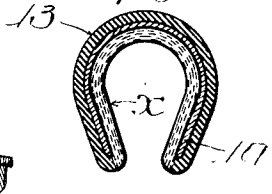


Fig. 2.

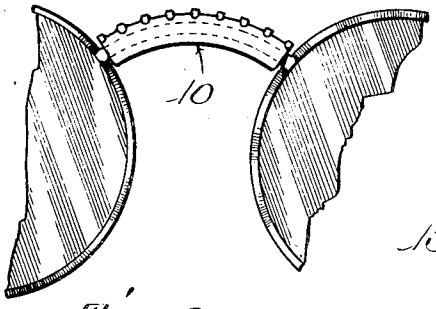


Fig. 9.

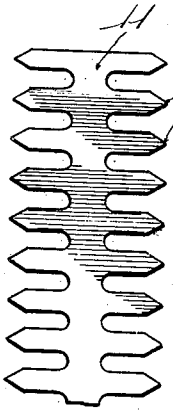


Fig. 7.

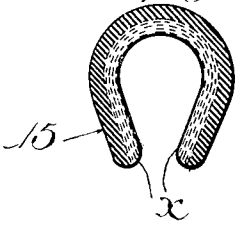


Fig. 8.

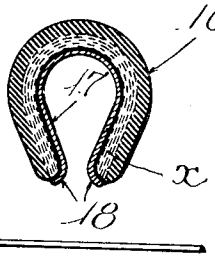


Fig. 3.

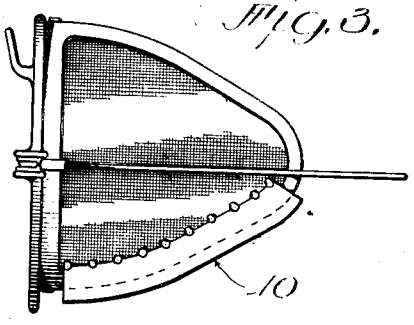
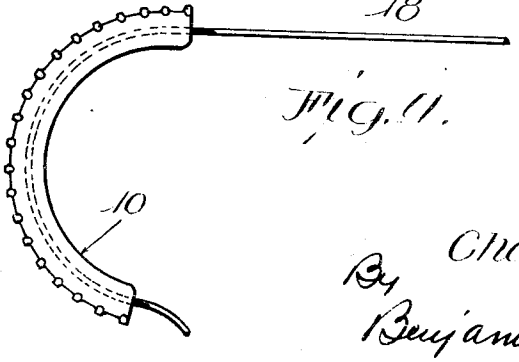


Fig. 11.



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UNITED STATES PATENT OFFICE.

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ARTICLE OF MANUFACTURE.

1,184,792. Specification of Letters Patent. Patented May 30, 1916.

Application filed August 12, 1915. Serial No. 45,167.

To all whom it may concern:

Be it known that I, CHARLES J. TROPPMAN, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented a certain new and useful Article of Manufacture, of which the following is a specification.

My invention relates to an article of manufacture and more particularly to a device that has its parts so constructed and arranged that it may be readily attached to or detached from, articles of divers shapes and sizes for the purpose of forming a heat insulation or a cushion, or the like.

The particular object of my invention is to provide an insulation for the portions of spectacles or eye-glasses that come into direct contact with the flesh of the wearer, and at the same time to provide a cushion that will prevent the particular portion of the spectacle or eye-glass pressing into the flesh and causing marks or disfigurations.

It is also an object of my invention to provide an insulation that is capable of being readily attached to or detached from, any article, whether of the character of an eye-glass or spectacle, an electric wire, or any other structure wherein insulation from heat or electricity may be found desirable.

Another object of my invention is the provision of insulation or cushion that is effective in its operation and is capable of being easily and quickly mounted upon or detached from the structure which it is desired to insulate.

Another object is the provision of an insulating structure that will retain its position upon the article.

A still further object is to provide an article of manufacture that is effective in its operation, simple in construction, and economical to manufacture.

I prefer to accomplish the objects of my invention by the means and in the manner herein fully described and as more particularly pointed out in the claims, reference being had to the accompanying drawings, forming a part of this specification, wherein it will be seen that, Figure 1 is a fragmental rear elevation of a pair of guard spectacles or protectors, only one lens being shown, showing my article of manufacture mounted upon the rim of the lens adjacent the nose and cheek. Fig. 2 illustrates the manner of mounting my article of manufacture upon the nose-piece or bridge of an eye protector. Fig. 3 is a side view showing the manner of mounting my article of manufacture upon a portion of the lateral screen or guard. Fig. 4 is a view showing my article of manufacture mounted upon the hook or ear-piece of a spectacle temple-piece. Fig. 5 is a transverse section of my article of manufacture, drawn to an enlarged scale. Fig. 6 is a sectional view of a modified construction of my article of manufacture. Fig. 7 is a sectional view of another modified construction of my article of manufacture. Fig. 8 is a sectional view of a still further modification of my article of manufacture. Fig. 9 is a plan of the metal blank employed in connection with the preferred form of my invention illustrated in Figs. 1 to 5.

Referring more particularly to Figs. 1 to 5 of the drawings, it will be observed that my article of manufacture comprises a body 10 of any composition suitable for the purposes of insulation. This body I am able to make of any suitable compound or ingredients, but I prefer, however, to make same of a compound having a large percentage of linseed oil, treated to oxidize and solidify the same, after which it is coated or caused to adhere to and partially or wholly impregnate a suitable backing x formed of a woven fabric. The body is then formed into a tube of substantially U or horse-shoe shape, as shown in Figs. 5 to 8, inclusive, of the drawings. As shown in Fig. 6, this body or tube may be molded into any form desired and not reinforced, in which event it may be found desirable to use a cementitious compound to firmly hold the insulating body in place. In Fig. 5, which is the preferred manner of constructing my article of manufacture, I employ a suitable strip of metal 11, provided with lateral spurs 12 projecting from opposite sides thereof. This strip of metal forms, substantially, backbone and ribs for the body, and as shown in Fig. 5, the ends of the spurs are preferably pointed and bent around the outer edges of the body and pressed into the same.

In Fig. 6 the body 13 has a strip of metal 14 of suitable dimensions and similar in form to the metal strip 11, embedded in the

interior of the same and having its ends covered so as to protect the metal from contact with and insulate it from other substances.

In Fig. 7 the body 15 is molded in the shape desired, but the metal reinforcement is entirely omitted, while in Fig. 8 the body 16 is similar to that in Fig. 7 and the reinforcement comprises a strip of metal 17 that fits into the interior of the tube and has its ends 18 bent around the adjacent side edge thereof. In the structure illustrated in Figs. 5, 6, and 8, I prefer to employ a metal reinforcement so that when it is desired to place the insulation upon articles of divers shapes, as shown in Figs. 1, 2, 3, and 4, of the drawings, the same may be mounted thereon and bent to the proper shape, after which the adjacent edges of the tube are forced firmly toward each other, so as to retain the insulation upon the article in the manner desired.

While I have herein illustrated and described certain specific means for carrying out my invention, it, of course, will be obvious to others skilled in the art to which it appertains, that various modifications or refinements thereof are possible without materially departing from the spirit of my invention. I therefore desire it understood that all such changes and refinements thereof are contemplated within the scope of my invention as expressed in the following claims:—

What I claim is:—

1. An article of manufacture comprising an elongated structure of semi-circular cross-section having a longitudinal aperture therein and formed of a suitable flexible material and provided with a circumferential metallic reinforcement.

2. An article of manufacture comprising an elongated structure of semi-circular cross-section having a longitudinal aperture therein and formed of a suitable flexible material, and provided with a circumferentially elastic metallic reinforcement.

3. An article of manufacture comprising a structure of substantially round cross-section having a longitudinal aperture therein and formed of a suitable flexible material, and provided with a metallic reinforcement wherein a plurality of lateral slots are formed, the portions of said reinforcement between said slots adapted to be bent and engage the structure adjacent the aperture therein.

4. An article of manufacture comprising a suitable composition formed into a substantially tubular structure having a longitudinal aperture therein, and provided with a metallic reinforcement wherein a plurality of lateral slots are formed.

5. An article of manufacture comprising a suitable composition formed into a tubular structure having a longitudinal aperture therein, and provided with a metallic reinforcement wherein a plurality of lateral slots are formed, the portions of said reinforcement between said slots adapted to be bent and engage the structure adjacent the aperture therein.

6. An article of manufacture comprising a structure formed of a suitable composition and provided with a reinforcing strip of a pliable metallic substance, having a plurality of lateral extensions.

7. An article of manufacture comprising a flexible structure formed of a suitable composition and provided with a reinforcement consisting of a metallic strip having lateral extensions, the ends whereof are adapted to be embedded into said structure.

8. An article of manufacture comprising a substantially semi-tubular structure having a longitudinal aperture therein and formed of a suitable substance, and provided with a reinforcement consisting of a metallic strip having lateral extensions, the ends whereof are adapted to be bent and engage the structure adjacent the aperture.

9. An article of manufacture comprising a structure of flexible material of substantially circular cross-section, having an interruption in said section forming a longitudinal aperture in said structure, and provided with a reinforcement having lateral extensions, whereby said structure is relatively longitudinally flexible and non-elastic and circumferentially elastic.

10. An article of manufacture comprising a structure of flexible material of substantially circular cross-section, having an interruption in said section forming a longitudinal aperture in said structure, and provided with a circumferential reinforcement, whereby said structure is relatively longitudinally flexible and non-elastic and circumferentially elastic.

Signed at Chicago, county of Cook, and State of Illinois, July, 1915.

CHARLES J. TROPPMAN.

Witnesses:
EDWARD S. CRAVEN,
EDWARD E. SWADENS.