March 25, 1930. E. K. COOK 1,751,793

FAN PROTECTOR

Filed Sept. 21, 1928

Fig. 1.

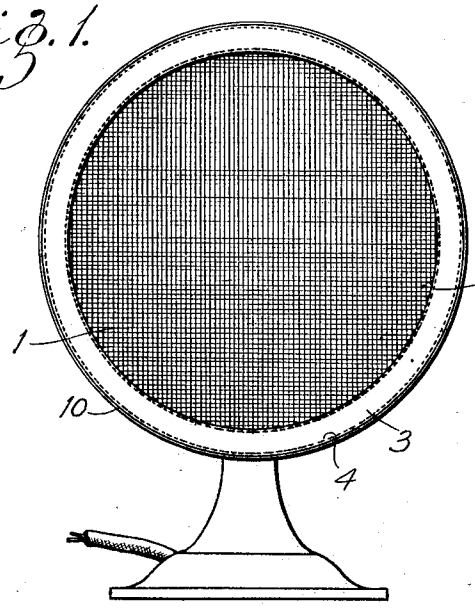


Fig. 2.

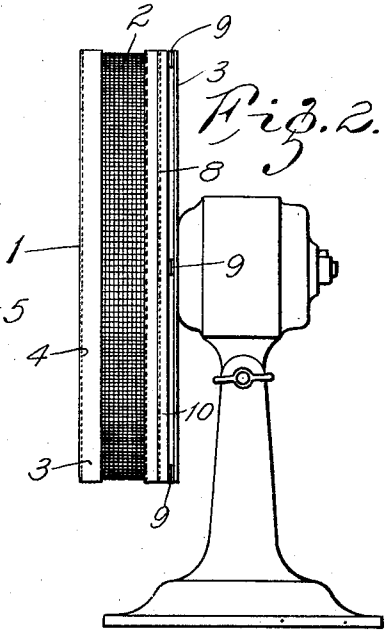


Fig. 3.

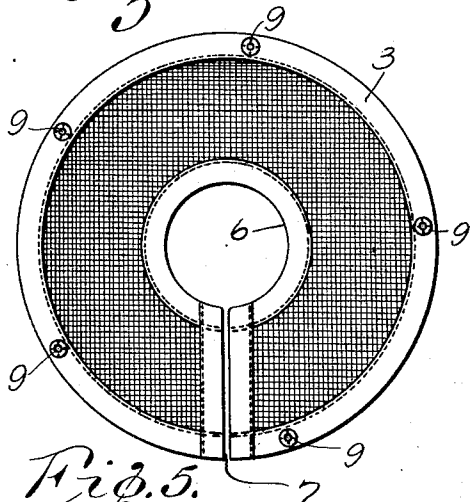


Fig. 4.

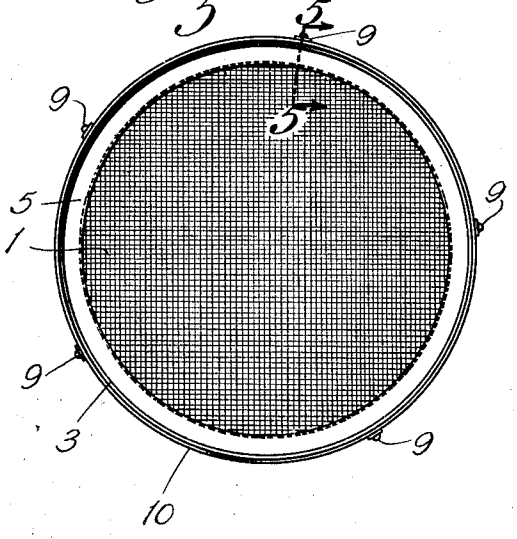
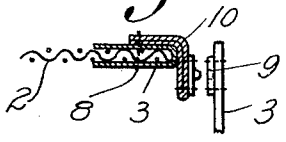


Fig. 5.



Fig. 6.



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Patented Mar. 25, 1930 1,751,793

UNITED STATES PATENT OFFICE

EMMA K. COOK, OF ST. LOUIS, MISSOURI

FAN PROTECTOR

Application filed September 21, 1928. Serial No. 307,464.

My invention relates to fan protectors, and more especially to a protector for cooling fans.

The primary object of my invention is to provide more complete protection against injury from electrically driven fans than is afforded by the usual heavy wire protector.

Where there are small children in the homes where the cooling fans are used, frequently more or less serious injuries occur to the hands of the children because of lack of sufficient protection, and it is my purpose to obviate this objection, as well as to make the use of the fan more suitable and satisfactory for other purposes.

In the drawings hereto attached and made a part of this specification:

Fig. 1 is a front elevation of a fan equipped with my protector.

Fig. 2 is a side elevation of a fan equipped with my protector.

Fig. 3 is a plan view of the rear portion of my protector.

Fig. 4 is a view of my protector from the back, with the back, shown in Fig. 3, removed.

Fig. 5 is a cross-section along the line 5—5 of Fig. 4.

Fig. 6 is a cross-section showing the manner of attaching and detaching the back to and from the main body of the protector.

My preferred method of construction consists of a main body portion 1, of relatively fine woven wire cloth, such for example as that commonly used for door and window screening, cut into a disc shape, as shown in Fig. 4, and surrounded by a belt 2, shown in Fig. 2, joined to the disc portion 1 by means of fabric tape 3 stitched thru and thru as shown at 4, along one edge of the tape, and stitched thru and thru, as shown at 5, along the opposite edge of the tape, so that the protector assumes the shape of a hollow disc with one end permanently closed.

The opposite end, or back, of the protector is made in the form of a disc about the periphery of which is stitched fabric tape 3. In order to permit the closing of the back portion of the protector without removing the fan, the disc shown in Fig. 3 is provided with an opening 6 in the center thereof and cut thru to the periphery of the disc as at 7, the marginal edges of the openings being bound with tape stitched thru and thru the tape and wire, as shown at 8 in Fig. 5.

Suitable snap fasteners 9 are sewn to the tape, the female portions of the fasteners being disposed at equal distances apart on the back portion of the protector, as shown in Fig. 3, and the male portions of the fasteners being disposed at equal distances apart on the main body portion of the protector, so that the closing disc may be readily attached and detached without removing the fan or any part thereof.

It is obvious that there are many circumstances under which it would not be necessary to completely enclose the fan blades, such for instance as when the fan is attached to the wall or put upon a shelf out of reach of children. For this reason it seems desirable that a screen protector that would give perfect security against accident should be readily attachable and detachable to fans already in use, and it is for this purpose that my invention is especially designed. The structure is such that the protectors may be made very cheaply and will fit and operate with any fan without the necessity of changes in the ordinary assembly of the fan.

Having fully described my invention, what I claim as new and useful and desire to secure by Letters Patent is:

A detachable fan protector of the class described, comprising a hollow cylinder made of fine mesh wire cloth, cut to shape and joined together by woven cloth tape, stitched through and through along the marginal edges of the wire cloth and the woven cloth tape, thereby to form a hollow cylinder closed at one end and open at the other end, a wire

cloth disc bound about its marginal edges by fabric tape stitched through and through said tape and said wire cloth disc, said disc having a circular opening in its center, the periphery of which is concentric with the periphery of said disc, the marginal edges of said disc being bound with tape, fasteners spaced apart about the rim of said hollow cylinder and about the periphery of said disc, said fasteners on said disc being adapted to engage said fasteners on said hollow cylinder, thereby to detachably join said disc to said hollow cylinder.

In witness whereof I have hereunto affixed my signature this 3rd day of August, 1928.

EMMA K. COOK.