Feb. 18, 1930. E. F. GUTH 1,747,627

FAN GUARD

Filed April 1, 1929

FIG. 1

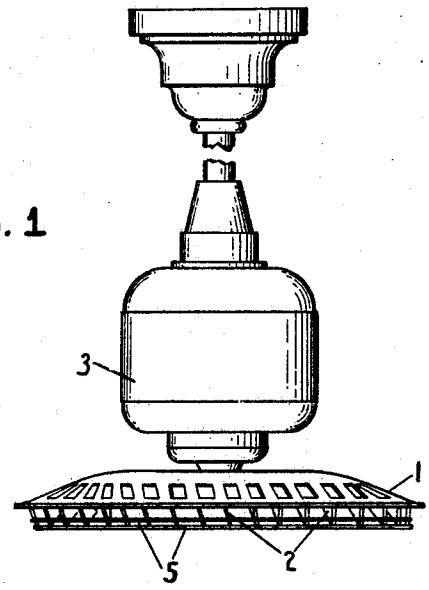


FIG. 2

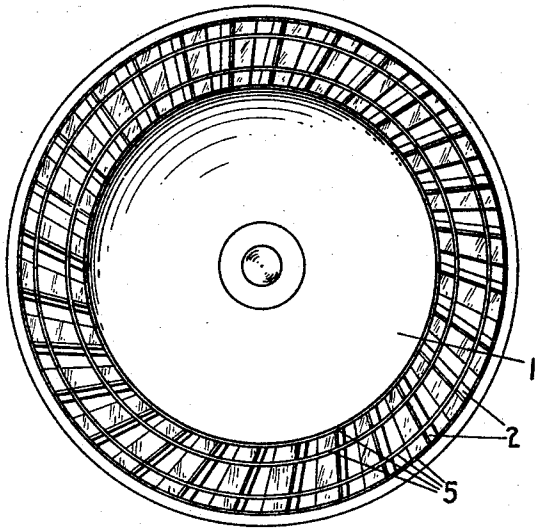
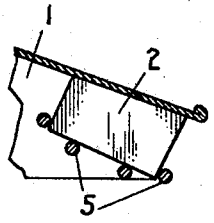


FIG. 3



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UNITED STATES PATENT OFFICE

EDWIN F. GUTH, OF ST. LOUIS, MISSOURI

FAN GUARD

Application filed April 1, 1929. Serial No. 351,622.

My invention relates to electric fans for circulating the air, and more specifically to my improved fan described in United States Patent No. 1,699,201, issued January 15, 1929.

Most fan guards with which I am familiar are stationary, and as they are more or less open it is quite possible for one's finger to be caught between the guard and the rapidly moving fan vanes, with disastrous results.

My invention has for its object, to provide a guard which will be secured to, and will rotate with, the fan vanes, so that if one's hand does come in contact with the fan it will be thrown off, much as if one touched a rapidly moving wheel, and no injury will result.

My means of accomplishing the foregoing object may be more readily understood by having reference to the accompanying drawing, which is hereunto annexed and made a part of this specification, in which—

Fig. 1 is an elevation of a fan equipped with my improved device;

Fig. 2 is an enlarged bottom view of the fan, showing the guard in position; and

Fig. 3 is an enlarged fragmentary view of one of the fan vanes, showing the positioning of the guards.

Similar reference numerals refer to similar parts throughout the entire description.

As shown in the drawing, the fan 1 is provided with a plurality of vanes 2 which, when rotated, draw the air into the fan and direct and propel it outwardly and downwardly if the fan is mounted as shown in the drawings. A motor 3 is provided to rotate the fan 1 in the usual or customary manner. As illustrated, it is mounted for use as a ceiling type of fan, but it will be apparent from my description that my guard is useful on any type fan, though I illustrate it only with a fan of my own invention.

I secure to the edges of the vanes 2 a plurality of wires 5, which are preferably of ring shape and are spot-welded to the edges of the vanes, so that they rotate with the blades or vanes as the fan is rotated, with the result that the wires 5 form a very effectual guard.

In addition to forming a guard, the wires 5 make the fan blades much more stable, and they are less liable to get out of true, which is an advantage of no small importance.

For the purpose of full disclosure of my invention, I have described in some detail a specific embodiment thereof; but it will be apparent that numerous changes might be made in the physical embodiment of my invention, within the scope of the claims, and I do not desire, therefore, to be understood as limiting myself, in the broader aspects of my invention, to the specific construction shown and described.

Having described my invention, what I regard as new, and desire to secure by Letters Patent of the United States, is:

1. A fan guard, comprising a plurality of concentric wires secured to the edges of the fan vanes adjacent their periphery and rotatable therewith.

2. The combination, with a fan having a plurality of vanes, of means to rotate said fan, a wire ring, and means to secure said ring to the edges of the vanes adjacent their periphery.

3. The combination, with a fan having a plurality of vanes, of means to rotate said fan, and a plurality of wire rings, secured to the edges of said vanes and rotatable therewith.

EDWIN F. GUTH.