E. HORN.

GLARE SHADE FOR AUTOMOBILES.

APPLICATION FILED SEPT. 15, 1920.

1,385,131. **Patented July 19, 1921.**

Fig. 1.

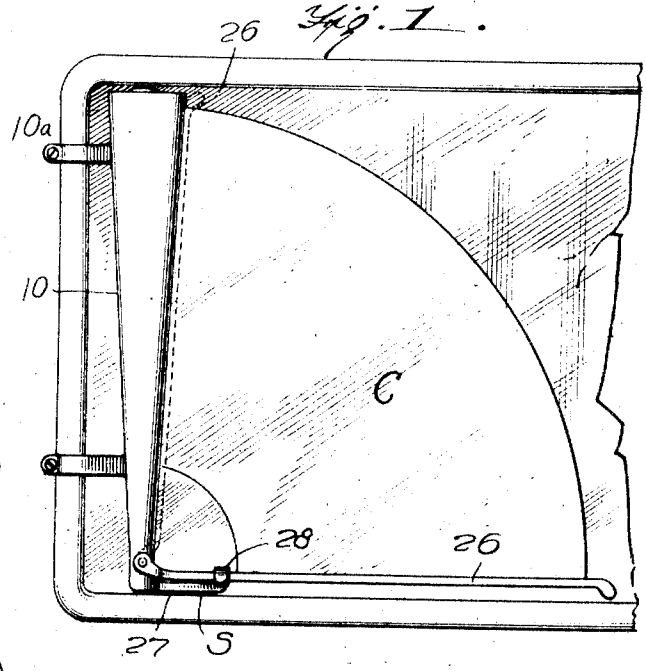


Fig. 2.

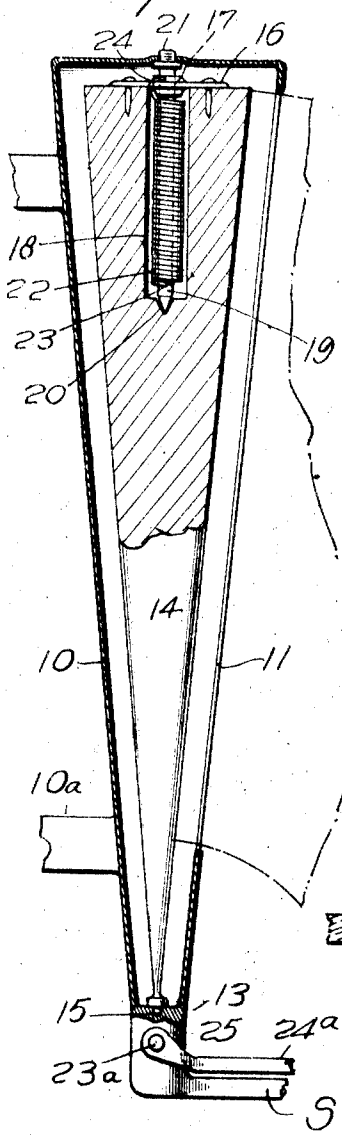


Fig. 4.

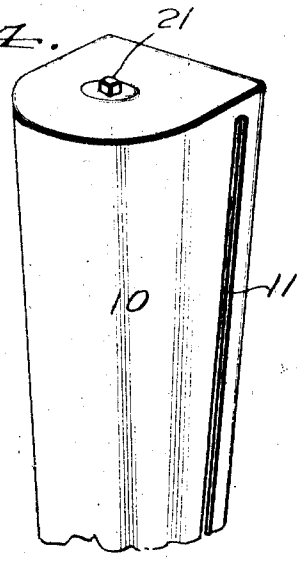
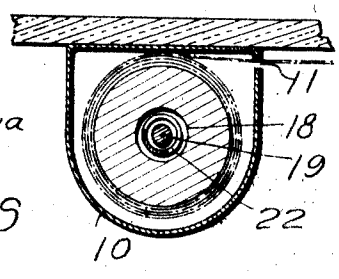


Fig. 3.



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UNITED STATES PATENT OFFICE.

ELLA HORN, OF RIFLE, COLORADO, ASSIGNOR OF FORTY-NINE ONE-HUNDREDTHS TO ALBERT R. GWYNN, OF LOS ANGELES, CALIFORNIA.

GLARE-SHADE FOR AUTOMOBILES.

1,385,131. Specification of Letters Patent. Patented July 19, 1921.

Application filed September 15, 1920. Serial No. 410,395.

To all whom it may concern:

Be it known that I, ELLA HORN, a citizen of the United States, residing at Rifle, in the county of Garfield and State of Colorado, have invented certain new and useful Improvements in Glare-Shades for Automobiles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to glare shades for automobiles, and has as an important object the provision of a shade which, when desired, may be positioned to cut off the glare from the sun or from the lights of another machine from the eyes of the operator of an automobile.

A further object is to provide a device of this character which may readily be attached to the usual construction of wind shield without in any manner modifying the same.

A still further object is to provide in a device of this character a tapered roller having mounted thereon an arcuate curtain whereby the curtain may be employed to cut off a section of the wind shield to prevent glare therethrough.

Other objects and advantages of the invention will become apparent throughout the course of the following description.

In the accompanying drawings, wherein for the purpose of illustration, is shown a preferred embodiment of my invention, and wherein like reference characters designate like parts throughout:—

Figure 1 is a rear elevation of an automobile wind shield having my glare shade applied thereto.

Fig. 2 is a longitudinal sectional view partly in elevation of the shade and roller casing.

Fig. 3 is a transverse sectional view taken therethrough, and

Fig. 4 is a perspective of the upper end of the casing.

Referring now particularly to the drawings, a suitable support is provided having mounted thereon a tapered casing 10 provided in one side with a longitudinal slot 11. The casing is provided with any suitable means, such as clamps 10^a, whereby the casing and support may be secured to the supporting frame of an automobile wind shield.

The casing has mounted therein adjacent its ends brackets 12 and 13. A tapered roller 14 is provided having at one end a round shank 15 disposed axially of the roller and having secured to the other end a plate 16 having an axial opening 17. This end of the roller is provided beneath the plate with a recess 18. A shaft 19 extends through the opening 17 of the plate 16 and has its inner end rotatably mounted in the end wall of the recess 18, as at 20. The outer end of this shaft 19 is provided with an irregular shank 21 for a purpose presently to appear. A spring 22 is coiled about the shaft 19 within the recess 18, and has one end thereof secured to the shaft 19, as at 23, and the opposite end thereof secured to the plate 16, as at 24. The bracket, or that bracket disposed at the large end of the tapered casing, has formed therein an irregular opening 22 corresponding in conformation to the shape of the shank 21 and adapted to receive the same, and the bracket 13 is provided with a suitable opening receiving the shank 15 at the opposite end of the roller 14.

The support S has formed thereon a pivot 23^a, which pivot is preferably alined with the axis of the tapered roller 14. Upon this pivot is mounted for oscillation an arm 24^a, the connection between the arm and the pivot being preferably loose enough to allow side play of the arm upon the pivot, as indicated at 25. The free end of the arm 26 has secured thereto a curtain C wound upon the roller 14. An inspection of the drawing will reveal the fact that this curtain is arcuate in form, whereby it will be wound flatly upon the tapered roller. This construction permits of a diagonal or substantially diagonal curtain being employed for the wind shield.

The support S has extending downwardly therefrom an arm 27 provided at its end with a hook portion 28 which is adapted to receive the arm 24^a when the curtain is in the extended position to prevent return of the curtain to the rolled position through the action of the spring 22.

It will be obvious that in the employment of my curtain, when it is desired to cut off any annoying glare, it is simply necessary to engage the arm 24 with the hand and extend the curtain, when the arm may be placed upon the hook portion 28 to retain it in extended position. When the cause of the glare is removed, the arm needs simply

to be released from the hook portion 27, when the curtain will be returned to its position within the casing by means of the spring 22. It will be obvious that my device will normally present no obstruction whatsoever to view through the wind shield, and it will likewise be obvious that the same will be so placed upon the wind shield that that portion cut off by the curtain C will only include that portion of the wind shield through which the glare may come, and accordingly the curtain will not interfere with the vision of the operator. If desired, this curtain may be formed of either opaque or transparent material. If the latter, it is preferred that the transparent material be of either an amber color or some other color suitable to remove from the glare those refractions which are injurious and uncomfortable to the eye.

Many changes being possible in the construction and arrangement of the various parts hereinbefore set forth without in any manner departing from the spirit of my invention, I do not limit myself to the specific construction hereinbefore set forth except as so limited by the subjoined claims.

I claim:—

1. In a glare shade for wind shields, supporting means adapted for attachment to a wind shield, a tapered roller, an arcuate curtain wound upon the roller and having one end secured thereto, and means for automatically rotating said roller to wind the curtain thereon.

2. In a glare shade for wind shields, supporting means adapted for attachment to a wind shield, a tapered roller, an arcuate curtain wound upon the roller and having one end secured thereto, an arm pivotally connected to said support at one end to which the free end of said curtain is secured, and means for automatically rotating said roller to wind the curtain thereon.

3. In a glare shade for wind shields, supporting means adapted for attachment to a wind shield, a tapered roller, an arcuate curtain wound upon the roller and having one end secured thereto, means for automatically rotating said roller to wind the curtain thereon, an arm pivotally connected with said support at one end and to which the free end of said curtain is secured, and means connected to said support for engaging said arm when the curtain is in extended position and retaining said arm and curtain in such extended position.

4. In a glare shade for wind shields, supporting means adapted for attachment to a wind shield, a tapered roller rotatably mounted upon said supporting means, an arcuate curtain wound upon the roller and having one end secured thereto, an arm pivotally connected to said supporting means, the pivot of said arm being alined with the longitudinal axis of said roller, said arm having secured to the free end thereof the free end of said curtain, means for locking said arm in position when the curtain is fully extended, and means for rotating said roller to wind the curtain thereon.

5. In a glare shade for wind shields, supporting means adapted for attachment to a wind shield, a tapered roller, an arcuate curtain wound upon the roller and having one end secured thereto, means for automatically rotating said roller to wind the curtain thereon, an arm pivotally connected with said support at one end and to which the free end of said curtain is secured, and a retaining arm depending from said support and provided thereon with means for engaging said arm to prevent return movement thereof when the curtain is in extended position.

In testimony whereof I hereunto affix my signature.

MRS. ELLA HORN.