H. J. BRENNECKE.

LAMP GLARE REDUCER.

APPLICATION FILED JAN. 27, 1916.

1,210,039. Patented Dec. 26, 1916.

Fig. 1.

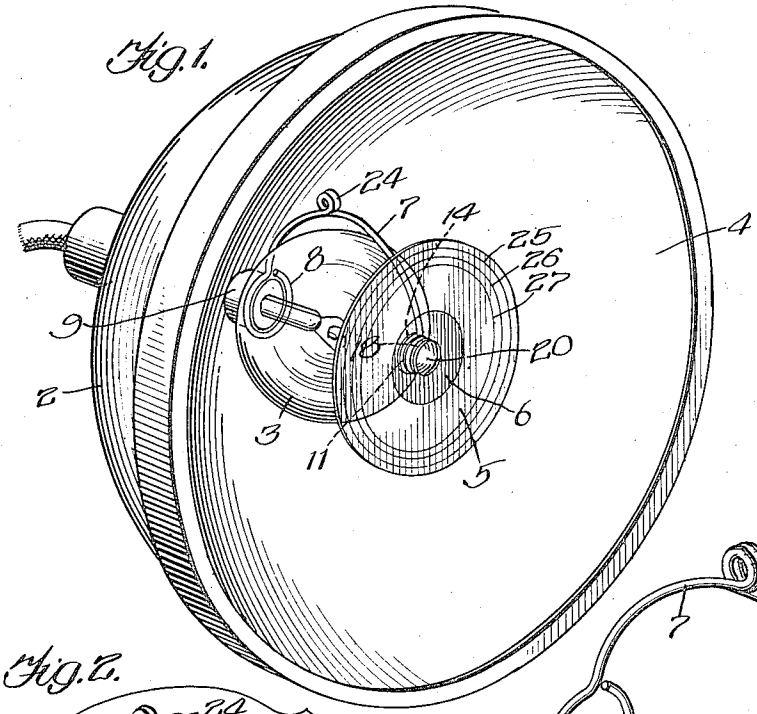



Fig. 2.

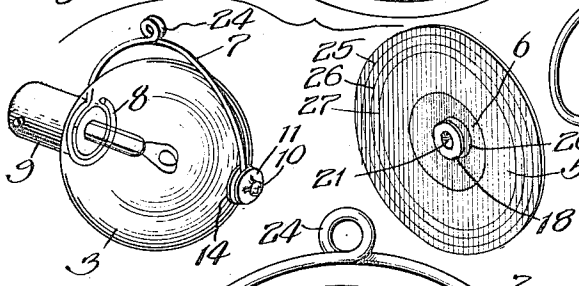



Fig. 3.

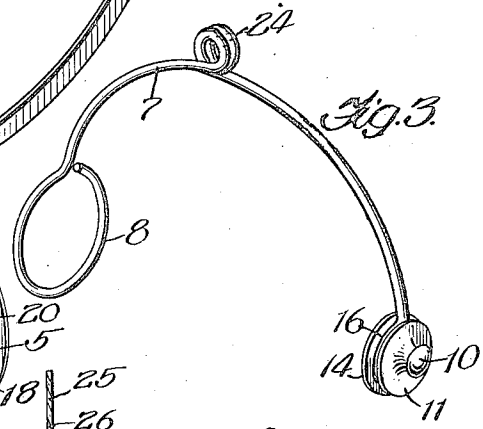



Fig. 4.

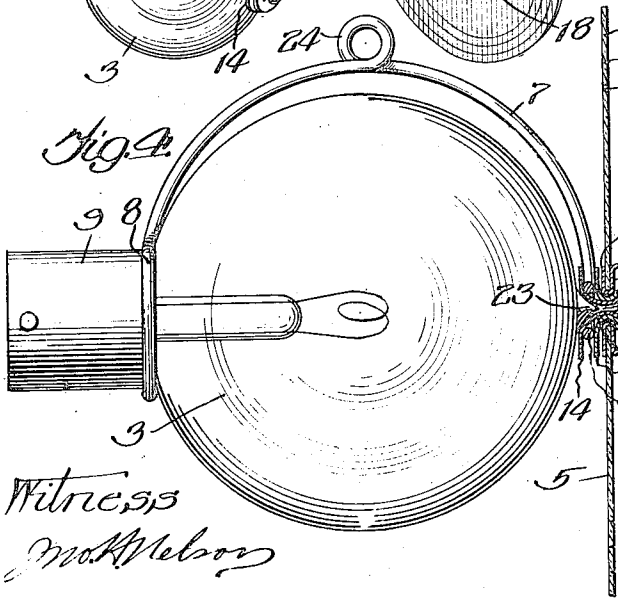
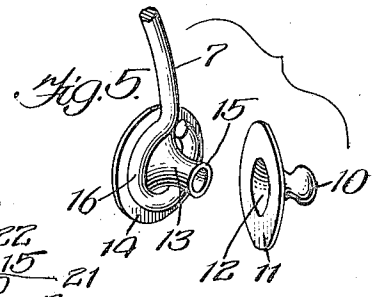



Fig. 5.

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# UNITED STATES PATENT OFFICE.

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## LAMP-GLARE REDUCER.

1,210,039. Specification of Letters Patent. Patented Dec. 26, 1916.

Application filed January 27, 1916. Serial No. 74,526.

*To all whom it may concern:*

Be it known that I, HERMAN J. BRENNECKE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lamp-Glare Reducers, of which the following is a specification.

My invention relates to devices for absorbing, reducing or preventing the glare of automobile lamps and the like, to meet requirements of city ordinances.

The object of the present invention is to provide a highly efficient, conveniently adjustable and removable, and comparatively very inexpensive device for supplying this want of glare reduction, and which at the same time will not, as so many other devices for this purpose, interfere with the full search light power of the lamp where same is needed, as on country roads.

With this object in view the invention consists in the novel construction, combination and arrangement of parts, all as hereinafter described in detail, illustrated in the accompanying drawing and incorporated in the appended claims.

In the drawing—Figure 1 is a perspective view of an electric lamp for an automobile with my invention applied thereto. Fig. 2 is a reduced perspective view of the electric light bulb and its socket, on a reduced scale, removed from the hood or casing of the lamp and with the shading or dimming disk detached. Fig. 3 is an enlarged perspective view of the disk-supporting wire bracket which is removably attached to the ordinary electric globe or bulb having the well known bur, or so-called "teat" thereon. Fig. 4 is an enlarged side view of the parts shown in Fig. 2, assembled, the disk and its central supporting clasp members being shown in section. Fig. 5 is a perspective view of a section of the wire and the parts of the clasp member thereon separated.

In the several views 2 represents the hood, body or casing of an ordinary lamp, such as used on self propelling vehicles and 3 is the conventional form of incandescent lamp globe or bulb removably mounted in any of the approved ways, and 4 is the lens, window or transparent front for the inclosure of the bulb 3. One method of reducing the glare is to paint an opaque or translucent circular spot on the glass 4 or coat the whole glass. This permanently dims the lamp which is undesirable when on country roads, or on dangerous roads outside of ordinance restrictions referred to. Others use detachable devices on the body 2 which partly or wholly cover the glass 4, which are undesirable on account of their cost and the fact that they are often mischievously removed.

In the present invention I provide a dimmer disk 5 having a central circular spot 6 that is translucent while the remainder of the disk is of suitably colored transparent material, a popular coloring for this purpose being amber. This disk 5 I attach to the bulb 3 through the medium of a wire bracket or holder 7 having at one end thereof a loop adapted to pass over the neck or socket 9 of the bulb 3, and having at the opposite end what is substantially a glove clasp button 10 stamped on a disk 11 and providing a socket opening 12 for a stud 13 on a similar disk 14, the stud 13 having a projecting rim 15 which is frictionally engaged in the hollow of the head 10. An eye or loop 16 engages the stud 13 and said eye or loop 16 is held between the disks 11 and 14 when the two parts are pressed together as in all the figures except Fig. 5. In the center of the disk 6 is mounted the complemental member of the so called glove clasp, which is formed to provide flanges 18 and 19 engaging opposite sides of the disk 6 around an aperture in its center. The body of this clasp member, designated as 20 is formed to provide an opening 21 similar to the opening 12, which is engaged by the button 10. The disk 14 and its stud 13 is a hollow stamping providing in the rear face thereof a recess 22 of approximately conical form adapted to receive the usual pointed bur or "teat" 23 produced on the ordinary lamp bulb in the process of its formation. The body of the wire or holder 7 is curved about the lamp as shown and is preferably looped in the middle as at 24 to increase the flexibility of the holder as a whole and to provide a conveniently accessible finger grip.

Colored disks 6, made, for instance, of celluloid, may be provided in a variety of sizes, colorings and thicknesses at insignificant cost, and the holder 7 with the proper arc of curvature is adjustable to any of the prevailing sizes of bulbs, and almost instantaneously. Mounting the colored disk on the tip of the bulb instead of coloring or

painting the lens or glass of the lamp casing and thereby removing the dimmer to a point some distance in the rear of the lens, enables the reflector surface of the lamp casing to act with substantially its full volume of light on the lens after the rays of light producing the undesirable glare have been intercepted or broken up. There is also a very material improvement in the appearance of the clear lens acted upon from the rear by the colored disk, over the painted or coated lens. Furthermore, unlike dimmers attached to the lamp casing, thus necessitating the provision of exactly fitting sizes, the present invention in any given size is applicable to any size of lamp casing or incandescent bulb therewith when the holder wire 7 is made large enough to be expanded to the maximum size. My inventive idea is not, however, confined to the specific form of holding means herein described, but its embodiment is capable of numerous modifications without departing from the spirit of my invention.

One of the purposes of the present invention being to reduce cost and inconvenience of installation to a minimum, I have made provision for obviating the manufacture of a variety of sizes of disks by providing in one disk the different sizes. This is accomplished by forming the disk with detachable rings or sections represented by the circular lines 25, 26 and 27, which, as shown in Fig. 4, are shallow incisions or scores on the lines of which the desired section or sections may be broken away to reduce the uniform size to the specific smaller size required in each individual case, the uniform size, of course, being the maximum size. In the drawing 25 represents the circular score and also the outer edge of the second largest size, 6 representing the disk including all its removable sections. In like manner 26 and 27 represent also the peripheries of the successive smaller sizes to the extent of the number of circular incisions provided in the disk 6.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination with a lamp casing having a glass front, of a light bulb inclosed within said casing, a dimmer for said bulb, a flexible holder supported at its ends on, respectively, the bulb socket and the tip of the bulb, and friction clasp members on said holder and dimmer removably holding same together.

2. The combination with a lamp body having a transparent front thereon and a lamp therewithin, of a dimmer disk removably attached to said lamp, said disk having circular incisions which form rings which may be removed to reduce the size of said disk.

3. A dimmer disk having a series of removable ring sections thereon, and means for mounting said disk.

In testimony whereof I have hereunto signed my name.

HERMAN J. BRENNECKE.