

Nov. 13, 1923.

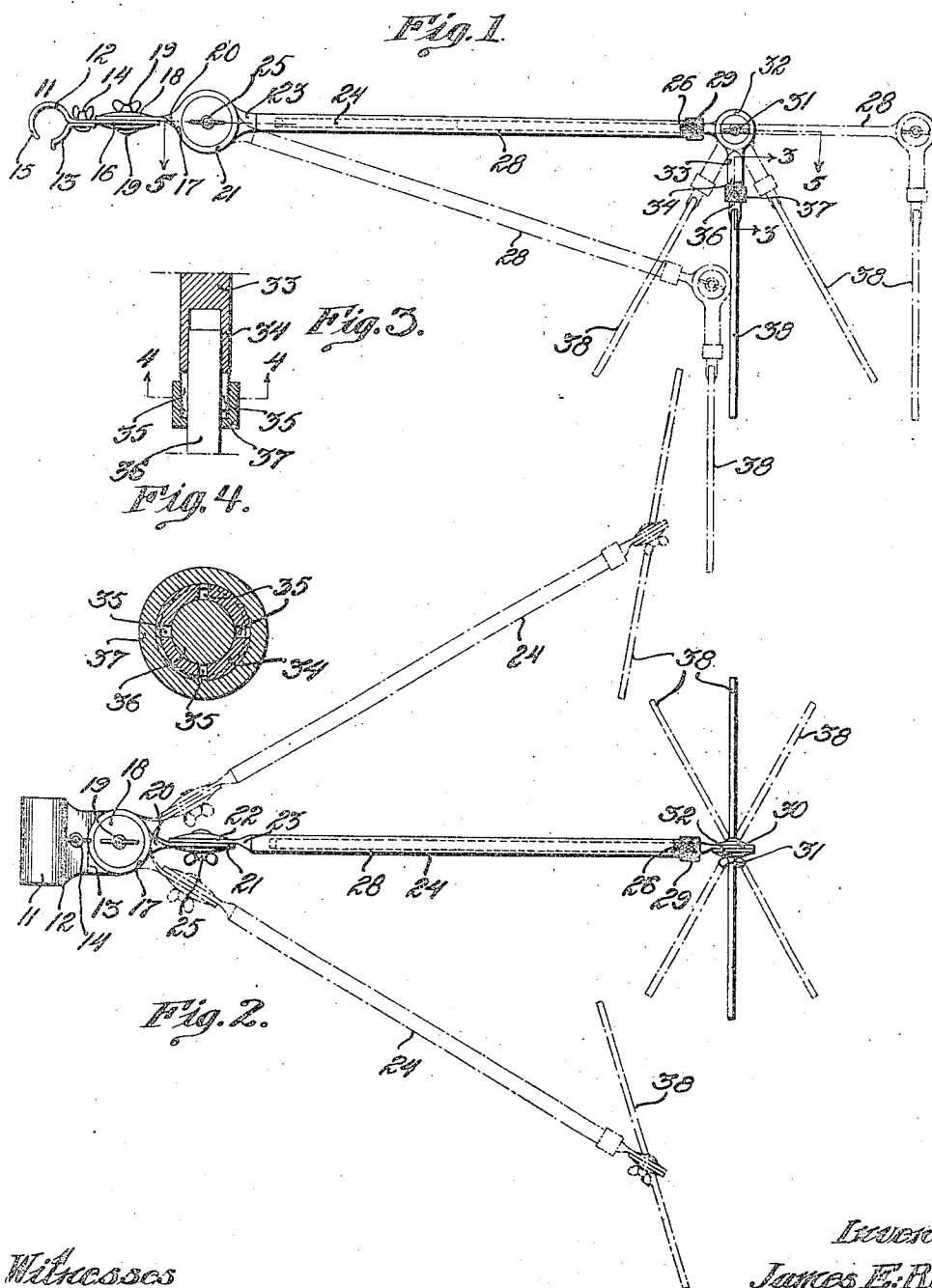
1,473,878

J. E. ROY

GLARE SHIELD DEVICE

Filed June 30, 1921

2 Sheets-Sheet 1



Witnesses
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2 Sheets-Sheet 2

Fig. 5.

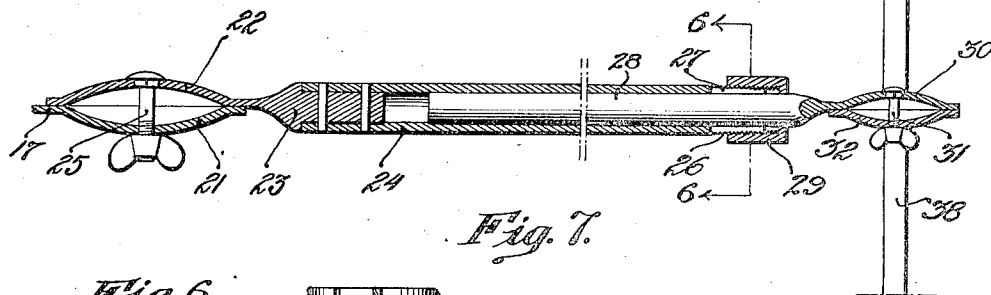


Fig. 7.

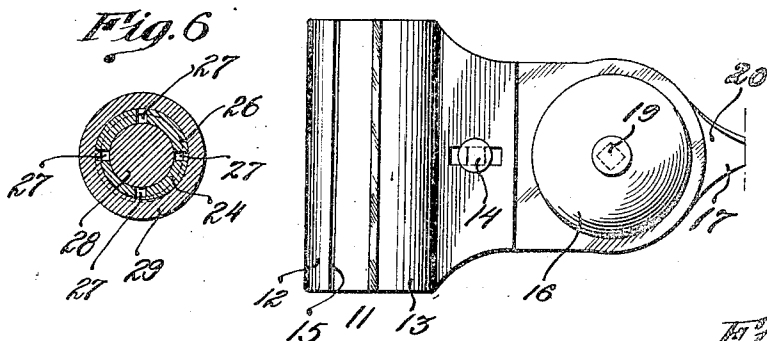


Fig. 6.

Fig. 9.

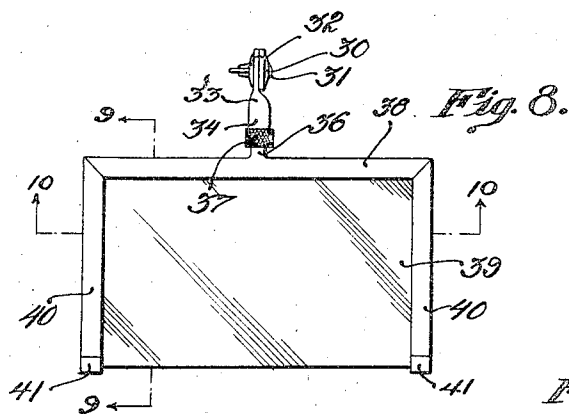
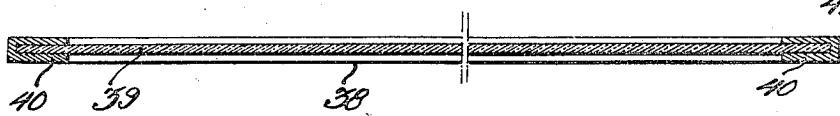
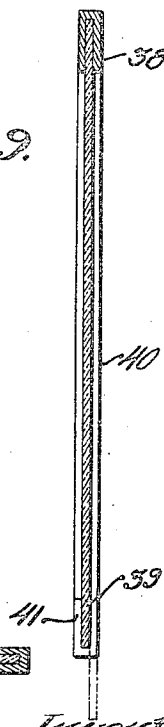


Fig. 10.



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UNITED STATES PATENT OFFICE.

JAMES E. ROY, OF PHILADELPHIA, PENNSYLVANIA.

GLARE-SHIELD DEVICE.

Application filed June 30, 1921. Serial No. 431,544.

To all whom it may concern:

Be it known that I, JAMES E. ROY, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Glare-Shield Devices, of which the following is a specification.

One object of my invention is to provide an improved glare shield device which can be used conveniently on automobiles; said device being so constructed that the shield can be easily and quickly moved into any position best suitable to the driver of the vehicle to protect him from the glare of the sun or lights of other vehicles or on the roadway.

Another object is to make my improved glare shield device of a durable construction which can be readily attached to a wind shield frame or other structure.

These objects, and other advantageous ends which will be described hereinafter, I attain in the following manner, reference being had to the accompanying drawings in which—

Figure 1 is a side elevation of a device made in accordance with my invention illustrating in full and dot-and-dash lines various elevational positions into which the shield can be moved,

Figure 2 is a top plan view of said device illustrating in full and dot-and-dash lines other positions into which the shield can be moved,

Figure 3 is an enlarged fragmentary section taken on the line 3—3 of Figure 1,

Figure 4 is an enlarged section taken on the line 4—4 of Figure 3,

Figure 5 is an enlarged section taken on the line 5—5 of Figure 1,

Figure 6 is an enlarged section taken on the line 6—6 of Figure 5,

Figure 7 is an enlarged fragmentary inverted plan view showing a portion of one of the joints and the clamp for attaching the device to a supporting structure,

Figure 8 is a front elevation of the shield and its connecting means,

Figure 9 is an enlarged section taken on the line 9—9 of Figure 8,

Figure 10 is an enlarged section taken on the line 10—10 of Figure 8.

Referring to the drawings, my improved

device includes a clamp 11 having two parts 12 and 13 which are secured together by a clamping bolt 14. The part 12 has a hooked portion 15 adapted to fit around a frame of a wind shield or other suitable supporting structure and the part 13 co-acts with the part 15 to clamp against said supporting structure. The part 12 is preferably made of resilient metal and includes a portion 16 which is pressed or bulged outwardly in circular form as shown in Figures 1, 2 and 7. A member 17, which is also preferably made of resilient metal, includes a portion 18 which is constructed similarly to the portion 16 and adapted to frictionally engage the portion 16 with the bulged portions opposed to each other; there being a clamping bolt 19 which extends through the portions 16 and 18 so as to hold them in frictional engagement with each other against the resiliency of said bulged portions. Thus the member 17 can swing on the bolt 19 as a pivot in a horizontal plane as shown for example in Figure 2. The member 17 is preferably made of sheet material which is twisted at 20 to provide a portion 21 in a plane at right angles to the plane of the portion 18. This portion 21 is also bulged in circular form and is adapted to engage an oppositely bulged portion 22 of a terminal piece 23 which is secured within a tube 24. A clamping bolt 25 extends through the portions 21 and 22 and serves to permit the terminal piece and tube to move in a vertical plane on the bolt 25 as a pivot; the spring or resilient characteristics of the portions 21 and 22 serving to frictionally hold them together against accidental pivotal movement. The end of the tube 24 opposite the terminal piece 23 is externally screw threaded as shown at 26; said screw threaded portion being split as shown at 27 in Figures 5 and 6.

A cylindrical bar 28 extends telescopically into the tube 24 and through said split portion of said tube and through a cap 29 which is threaded so as to be screwed on the split end of the tube; said split end of the tube preferably being slightly tapered so that when the cap 29 is screwed thereon the split portion of the tube will be clamped to the rod 28 and relative sliding movement between the tube and the rod will be prevented. The outer end of the rod 28 is

flattened and also includes a bulged portion 30 of similar construction to the bulged portions 21 and 22. A clamping bolt 31 extends through the bulged portion 30 and through another resilient bulged portion 32 on a tubular hanger 33 so that the tubular hanger can swing in vertical planes in the arrangement of the device as illustrated. The tubular hanger 33 has a tubular portion 34 which is split at 35 as shown in Figures 3 and 4 and a trunnion rod or stem 36 extends into the tubular portion 34 of the hanger 33 and through a cap 37; said split end of the tubular portion 34 being slightly tapered so that the cap 37, when screwed thereon, will cause the split part of the tubular portion 34 of the hanger to frictionally clamp the trunnion rod 36. The trunnion rod 36 is connected to a frame 38 which is preferably made of strip sheet metal having side edge portions which embrace the side and top edge portion of a piece of colored or other translucent celluloid, glass, or other suitable translucent material 39 capable of absorbing the glare of lights viewed there-through.

The side portions 40 of the frame 38 have lower parts 41 which are bent upwardly in embracing position with the lower edge portion of the shield member 39 as clearly shown in Figure 9 so that the member 39 is prevented from falling out of the frame. A device made in accordance with the above construction can swing horizontally on the bolt 19 as a pivot and can also swing vertically on the bolt 25 as a pivot; it being noted that the parts 16 and 18 together with the bolt 19 serve as a spring-pressed joint while the parts 21 and 22 together with the bolt 25 also serve as a spring-pressed joint in which pivotal action is directed in each case against the friction exerted by the contact of said portions one with another. It will also be noted that the portions 30 and 32 together with the bolt 31 serve as a spring-pressed joint to permit vertical swinging movement of the shield member 39 independently of the joint formed by the parts 21, 22 and 25. Further than this, the rod 28 can slide lengthwise relatively to the tube 24 and the trunnion rod 36 can be extended by moving it lengthwise relatively to the tubular hanger 33. Also the rod 36 can be rotated within the hanger 33 and the rod 28 can be rotated within the tube 24.

Thus it is possible to move the shield member 39 easily and quickly into any position desired relatively to the eyes of the driver considering that the device is secured in position within an automobile.

During night driving the shield member 39, which is preferably made of green celluloid, can be positioned in front of the driver so as to absorb the glare of headlights on oncoming vehicles and during day driving the

shield member can be used to protect the eyes of the driver from the glare of the sun or if desired from the glare of the roadway.

By making the device of the construction above set forth it can be used by any driver irrespective of his size or the position within the vehicle most comfortable and suitable to him since there is practically no position in which the glare shield member cannot be placed relatively to the eyes of the driver.

While I have described my invention as taking a particular form, it will be understood that the various parts of my invention may be changed without departing from the spirit thereof, and hence I do not limit myself to the precise construction set forth, but consider that I am at liberty to make such changes and alterations as fairly come within the scope of the appended claims.

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

1. A device of the character described including a glare shield; means for supporting said glare shield, and including joints effecting movement of the glare shield in horizontal and vertical planes, said joints including a twisted bar having bulged resilient portions extending at right angles to each other; members with bulged resilient elements engaging said bulged portions; thumb screws extending through said resilient portions and their companion elements for clamping them together and adjusting said shield in said planes; and means including a pair of split sleeves and stems adjustably clamped therein and pivotally connected by means of bulged resilient portions for swinging and tilting said shield on one of said members; substantially as described.

2. A device of the character described including a glare shield; means for clamping said device on the frame rod of an automobile wind shield; a twisted bar mounted on said means for horizontal adjustment and having a resilient clamping portion; a member with a similar companion portion mounted on said portion for vertical adjustment; means mounted for longitudinal and rotational adjustment on said member; a resilient clamping portion on said means; a tube with a similar portion mounted on said resilient portion; and a shield-carrying frame with a stem longitudinally and rotationally adjustable in said tube; substantially as described.

3. A glare shield and supporting means therefor comprising clamping jaws mountable on a supporting frame; a twisted bar having bulged resilient portions extending at right angles to each other; a pair of similarly bulged resilient portions adjustably mounted on the first said portions, one being mounted on said jaws and the other being provided with a stem; a tube fastened on said stem and having a split end and a threaded

cap thereon; a rod clamped in said end for longitudinal and rotational adjustment and having a bulged resilient portion; a tube having a similar portion frictionally and adjustably mounted on said rod portion; and a stem mounted in said tube for longitudinal and rotational adjustment and attached to a frame carrying a glare shield.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES H. ROY.

Witnesses:

ELIZABETH GARDEN,
CHAS. E. POTTS.