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O. C. GRAFF.

WIND SHIELD.

APPLICATION FILED JAN. 23, 1908.

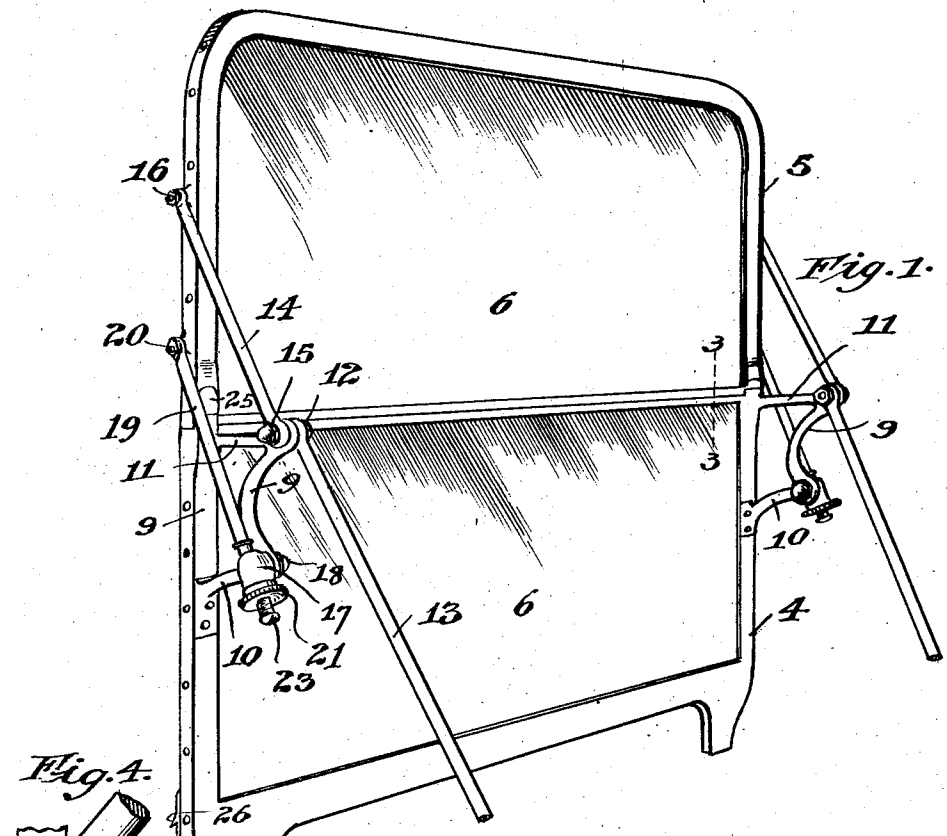


Fig. 1.

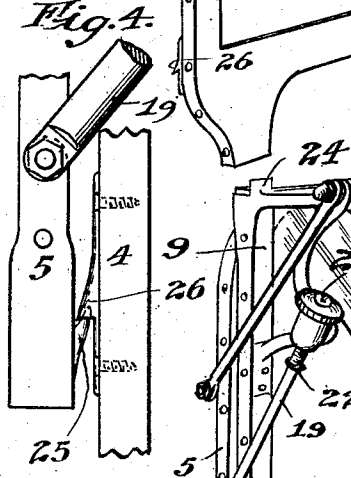


Fig. 4.

Fig. 2.

Fig. 3.

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WIND-SHIELD.

No. 891,537. Specification of Letters Patent. Patented June 23, 1908.

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To all whom it may concern.

Be it known that I, OSCAR C. GRAFF, 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 Wind-Shields, of which the following is a specification.

My invention pertains to a device for adjustably securing two members together and the invention is best illustrated as shown applied to a wind shield for an automobile.

One of the objects of the invention is to provide a wind shield that is capable of being easily and quickly raised or lowered; other advantages being in its permanency of grip which will not loosen under the constant vibration and jolting that it is subject to in a road vehicle.

In the accompanying drawing Figure 1 is a perspective elevation of my device applied to an unfolded wind shield. Fig. 2 is a perspective elevation of my device, as the same appears with the wind shield folded. Fig. 3 is a vertical section on the line 3—3 of Fig. 1 with parts broken away. Fig. 4 is an end elevation of the wind shield folded showing the lip and tongue engaging members, with parts broken away.

Referring now more specifically to the drawing, 4 is the fixed lower frame portion of a wind shield adapted to be secured to the dashboard of a vehicle or any other suitable part, and 5 is the foldable frame portion, each of said frame portions being provided with a suitable transparent material 6 such as glass.

The upper edge of the frame 4 is provided with a tongue 7 while the lower edge of the frame 5 is provided with a groove 8 in which the tongue 7 is adapted to be seated, so as to prevent lateral or longitudinal movement between said frame members. As a means for holding said frame member 5 in an unfolded position, a bracket 9 is provided which may be formed integral with the frame 4 and which is provided with two arms 10 and 11. At the outer end of arm 11 an eye is formed through which a bolt 12 passes, pivotally securing to said arm the braces 13 and 14, each being provided with an eye through which the bolt 12 passes, and a threaded nut 15 coöperates with one end thereof.

The brace 13 is adapted to be secured to the vehicle or the like at any desired point and has no movement relative to the bracket, while the brace 14 is pivoted to the frame 5 by the pivot bolt 16 and has a pivotal movement on the bolt 12. The arm 10 is also provided with an eye whereby a sleeve 17 having a threaded shank and a nut 18 adapted to cooperate with the threaded shank, is pivoted to said arm 10.

Slidably mounted in the sleeve 17 is a clamp rod 19 which is pivoted at one end to the frame 5 by means of the pivot bolt 20, its other end being threaded to coöperate with a threaded clamp 21, the movement of the clamp rod being limited in one direction by the boss 22 on one side of the sleeve and movement in the opposite direction by the clamp 21 on the opposite side of the sleeve from said boss. A stop screw 23 prevents the clamp from being turned off the clamp rod, while a stop flange 24 on the bracket serves both as a guide and a stop for the frame 5 when being placed in an unfolded position.

Referring now to Fig. 2, the device is shown in a folded position and in assuming this position the clamp is loosened to permit the frame 5 to be slightly raised to unseat the tongue from the groove whereupon it may be moved out of the vertical plane of the frame 4 and dropped down, which imparts a pivotal movement to the sleeve and gives the clamp-rod a sliding movement in relation to the sleeve. When the frame 5 has dropped as far as the brace rod 14 and clamp rod 19 will permit, it is then in substantially a vertical position with the tongue 25 on the frame 5 below the lip 26 on the frame 4 whereupon by turning the clamp 21 the frame 5 is drawn upward and toward the frame 4 bringing the tongue and lip into engagement and thereby locking the wind shield in its folded position. When it is desired to unfold the wind shield the clamp is loosened to disengage the tongue and lip and the frame 5 is then raised to a position in substantial vertical alinement with the frame 4 but slightly above the same. By a movement of the clamp down the threads on the clamp rod the frame 5 is drawn downward interlocking the tongue and groove until the clamp comes in contact with the sleeve, whereupon the parts are firmly locked.

In the preferred form a pair of brackets and accompanying parts are employed on a single wind shield and although only a single

device has been herein described, it is to be understood that two devices may be and are preferably used.

It is obvious that various changes may be made in my invention such as the changing of the pivotal points of attachments of the various braces to the bracket or arms, and therefore without confining myself to the specific detail of construction, I claim:

1. The combination with a wind shield having a fixed portion and a foldable portion, of an adjustable support for said foldable portion comprising a bracket secured to the fixed portion, a sleeve rotatably mounted in said bracket, a clamp rod slidably engaging said sleeve and pivoted at one end to said foldable portion and a clamp having a threaded engagement with the other end of said clamp-rod whereby a locking or releasing of the clamp-rod is effected.

2. The combination with a wind shield having a fixed portion and a foldable portion, of an adjustable support for said foldable portion comprising a bracket secured to the fixed portion, a sleeve rotatably mounted in said bracket, a clamp rod slidably engaging said sleeve and pivoted at one end to said foldable portion, a clamp having a threaded engagement with the other end of said clamp rod and a brace pivoted to said bracket and to said foldable portion substantially as described.

3. The combination with a wind shield having a fixed portion and a foldable portion, of an adjustable support for said foldable portion comprising a bracket secured to the fixed portion, a pair of arms on said bracket, a sleeve rotatably mounted in one of said arms, a clamp rod slidably engaging said sleeve and pivoted at one end to said foldable portion, a clamp having a threaded engagement with the other end of said clamp rod, and a pair of braces secured to the other of said arms, one of said braces adapted to be secured to a stationary support, such as a vehicle body, and the other brace pivotally secured to said arm and to said foldable portion, substantially as described.

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