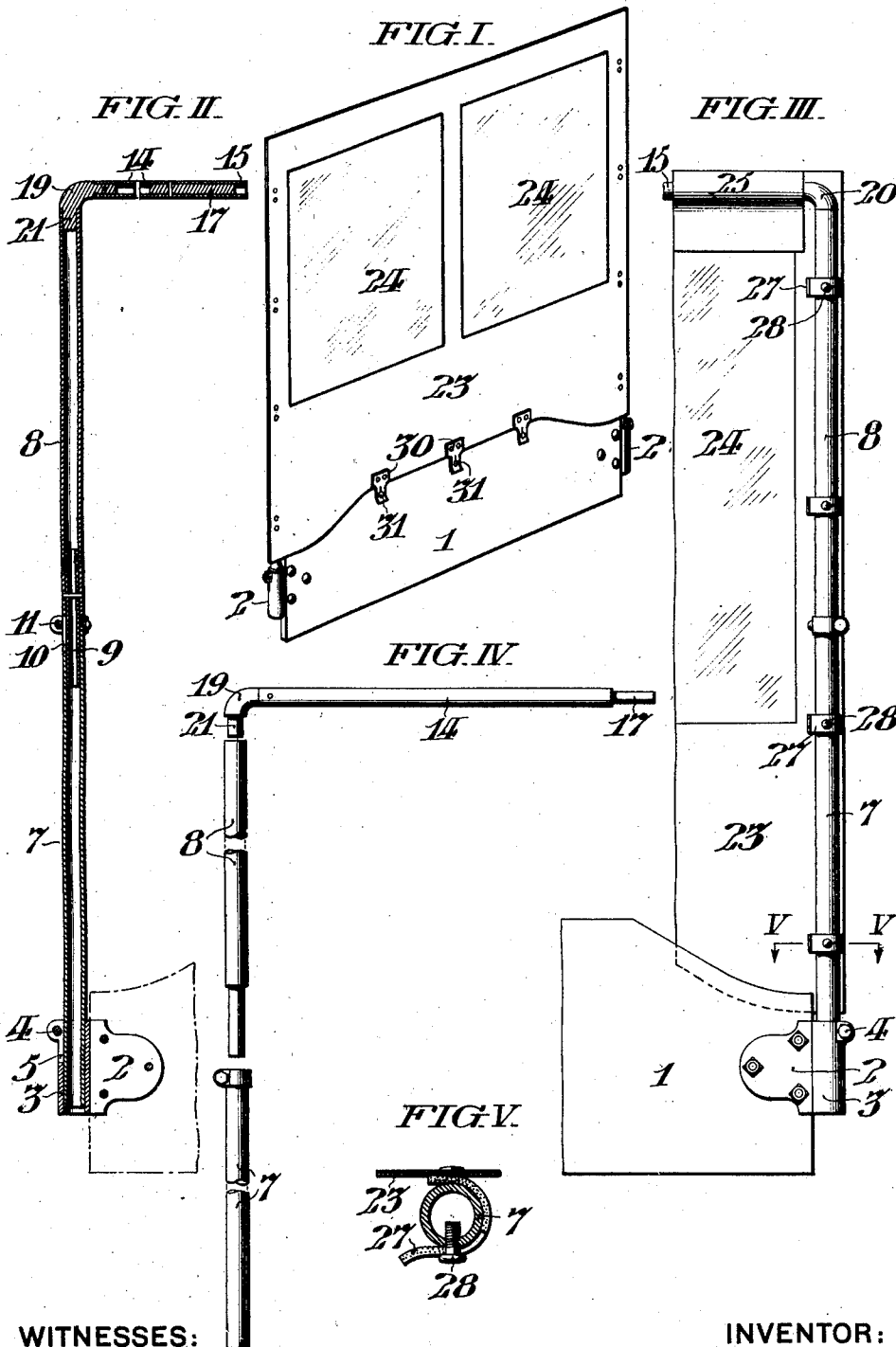


No. 840,851.

PATENTED JAN. 8, 1907.

J. E. JOHNSTON.
WIND SHIELD FOR VEHICLES.
APPLICATION FILED FEB. 21, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH E. JOHNSTON, OF ARDMORE, PENNSYLVANIA.

WIND-SHIELD FOR VEHICLES.

No. 840,851.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed February 21, 1906. Serial No. 302,164.

To all whom it may concern:

Be it known that I, JOSEPH E. JOHNSTON, of Ardmore, in the State of Pennsylvania, have invented certain new and useful Improvements in Wind-Shields for Vehicles, whereof the following is a specification, reference being had to the accompanying drawings.

It is the object of my invention to provide a wind-shield which may be removably mounted upon the front of an automobile or other vehicle and which is formed of members which may be readily separated and closely packed for storage or transportation. The form of my invention, hereinafter described, comprises a flexible curtain provided with a frame whereby said curtain may be stretched and supported independently of the upper portion of the vehicle, said frame being supported solely from the dashboard or equivalent portion of the vehicle in brackets which are secured at opposite sides thereof. Said brackets comprise sockets for vertical standards of said frame which are each formed of two separable sections connected by means whereby they may be rigidly clamped together, and said standards are connected at their upper ends by a cross-bar formed of separable sections which are inter-engaged between said standards. Said cross-bar extends through a fold or bight at the top of said curtain. Said standards are provided with projecting studs for engagement with the edges of said curtain. The arrangement is such that the standards may be rotated relatively to each other and to the cross-bar, so as to stretch the curtain transversely between them, and said brackets are provided with means for clamping said standards in adjusted position. Moreover, the lower edge of said curtain is provided with means for attaching it to the vehicle, and said standards may be vertically adjusted, so as to stretch the curtain vertically between said cross-bar and the vehicle before the standards are clamped.

My invention comprises the various novel features of construction and arrangement hereinafter more definitely specified and claimed.

In the drawings, Figure I is a perspective view showing the front of the wind-shield and the portion of the vehicle which supports said shield. Fig. II is a fragmentary sectional view of the left-hand side of the frame, as indicated in Fig. I. Fig. III is a fragmen-

tary elevation of the inner side of said frame. Fig. IV shows the separated members of one of the frame-standards and the cross-bar. (Shown assembled in Figs. II and III.) Fig. 60 V is a cross-sectional view taken on the line V V in Fig. III.

In said figures, 1 is the dashboard or other front portion of a vehicle, provided at its opposite sides with the brackets 2. Said brackets each comprise a tubular socket 3, the upper portion of which may be constricted by the bolts 4, each socket being split, as indicated at 5, to permit of such adjustable variation in its diameter. Said sockets 3 are adapted to receive and permit the rotary and vertical adjustment of the frame-standards comprising sections 7 and 8. The sections 8 have extensions 9, which extend within the sections 7, as indicated in Fig. II, and said sections 7 are split, as indicated at 10, and provided with bolts 11, by which the diameter of the upper end of each section 7 may be restricted to rigidly hold said sections 8. Said frame-standards are connected at their upper ends by a cross-bar comprising opposite members 14 and 15, which are connected intermediate of said vertical standards, as indicated in Fig. II—that is to say, the cross-bar members 14 has an extension 17, which fits within the cross-bar member 15. Said cross-bar member 14 and 15 are provided at their opposite ends with elbows 19 and 20, having extensions 21, which fit within the vertical standards.

The flexible curtain 23, which conveniently comprises transparent panels 24, has a tubular fold or bight 25 at its upper edge, through which said cross-bar extends, as indicated in Fig. III, and by which it is supported on said frame. Said curtain is provided at its opposite vertical edges with straps 27, arranged for engagement with studs 28 on the frame-standards and is also provided with straps 30 at its lower edge arranged to engage studs 31, projecting from the vehicle member 1. The members of the shield being assembled, as shown in Fig. I, said curtain 23 may be stretched vertically by raising the vertical standards in the sockets 3 in the brackets 2, and said curtain may be stretched transversely by partly rotating said standards, so as to wrap the straps 27 around them in the position shown in Fig. IV, in which position said standards may be secured in rigid relation by adjustment of the bolts 4.

I do not desire to limit myself to the pre-

cise details of construction and arrangement herein set forth, as it is obvious that various modifications may be made therein without departing from the essential features of my invention.

I claim—

1. In a wind-shield, the combination with a flexible curtain; of a separable frame comprising vertical standards provided with means engaging the edges of said curtain; means arranged to detachably connect said standards with a vehicle; a cross-bar connecting the tops of said standards and pivotally connected therewith and, means whereby said standards may be rotated and clamped to hold said curtain in stretched position, substantially as set forth.

2. In a wind-shield, the combination with a flexible curtain; of a separable frame comprising vertical standards and a cross-bar connecting the tops of said standards; means on said standards and said cross-bar engaging the edges of said curtain; and, means whereby said standards may be vertically adjusted and rotated relatively to said cross-bar and clamped in adjusted position, substantially as set forth.

3. In a wind-shield, the combination with a flexible curtain; of a separable frame comprising vertical standards each formed of two separable sections, and a cross-bar

formed of two separable sections; means connecting the sections of said standards arranged to clamp them in rigid relation; means on said standards and cross-bar arranged to engage the edges of said curtain, whereby said curtain may be stretched; brackets provided with means for attachment to a vehicle and comprising sockets for said standards; and, means in said brackets arranged to clamp said standards in adjusted position, substantially as set forth.

4. In a wind-shield for vehicles, the combination with a flexible curtain; of a separable frame comprising vertical standards at the opposite sides of said curtain; means connecting said standards with said curtain; brackets supporting said standards in relatively rotatable relation, whereby said curtain may be stretched transversely; a cross-bar connecting the tops of said standards, and pivotally connected therewith and, means arranged to clamp said standards in said brackets, substantially as set forth.

In testimony whereof I have hereunto signed my name, at Philadelphia, Pennsylvania, this 19th day of February, 1906.

JOSEPH E. JOHNSTON.

Witnesses:

ARTHUR E. PAIGE,
GEORGE WAGNER.