F. PARIZEK.

WIND SHIELD FOR AUTOMOBILES.

APPLICATION FILED DEC. 11, 1908.

930,560.

Patented Aug. 10, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

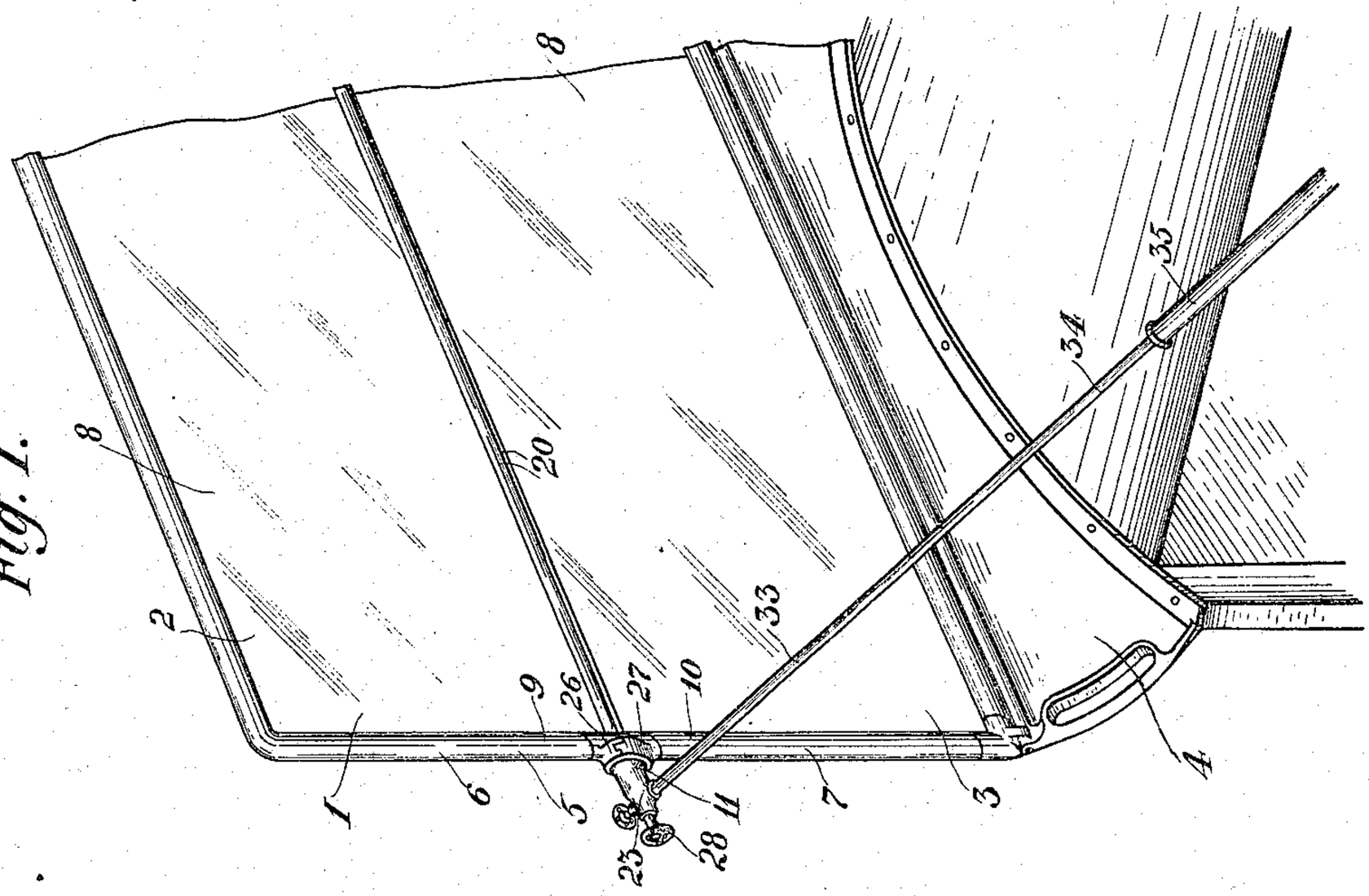
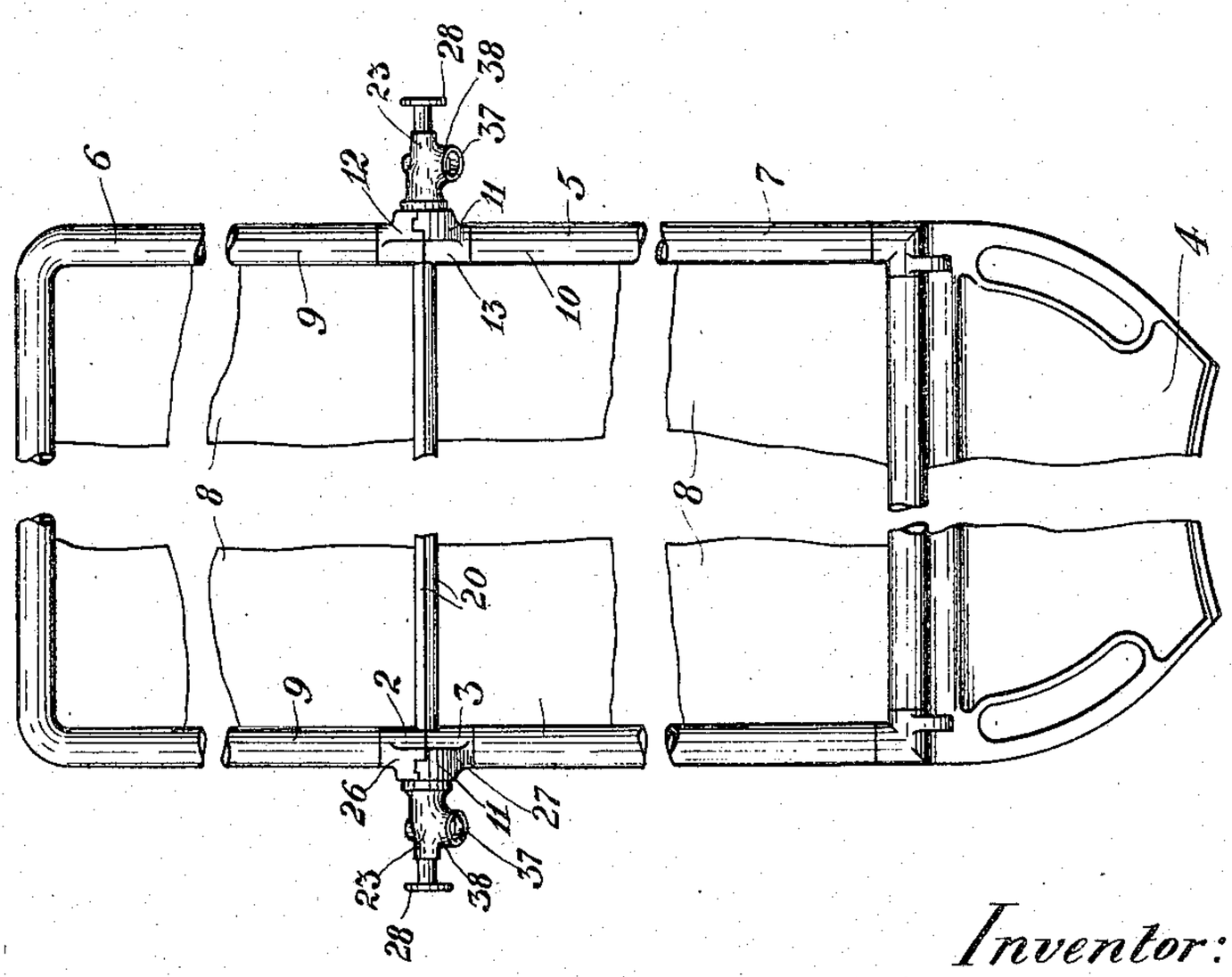


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 6.

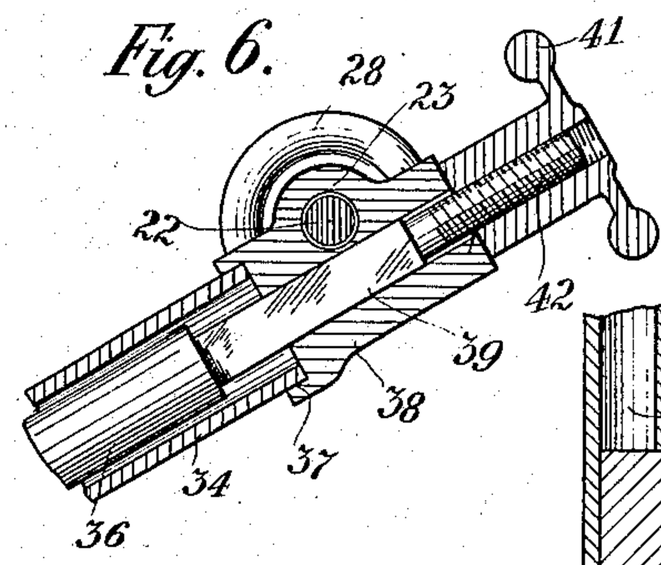
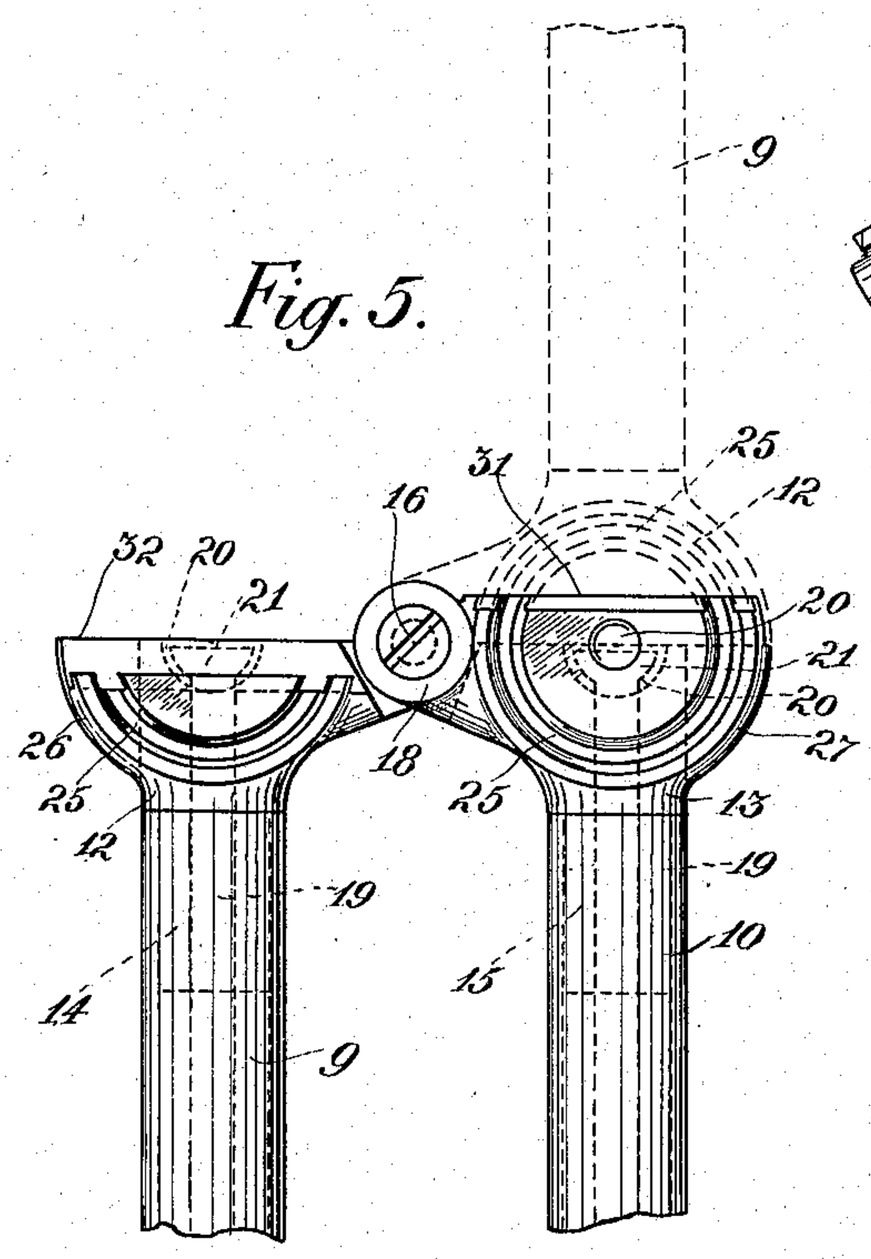


Fig. 5.



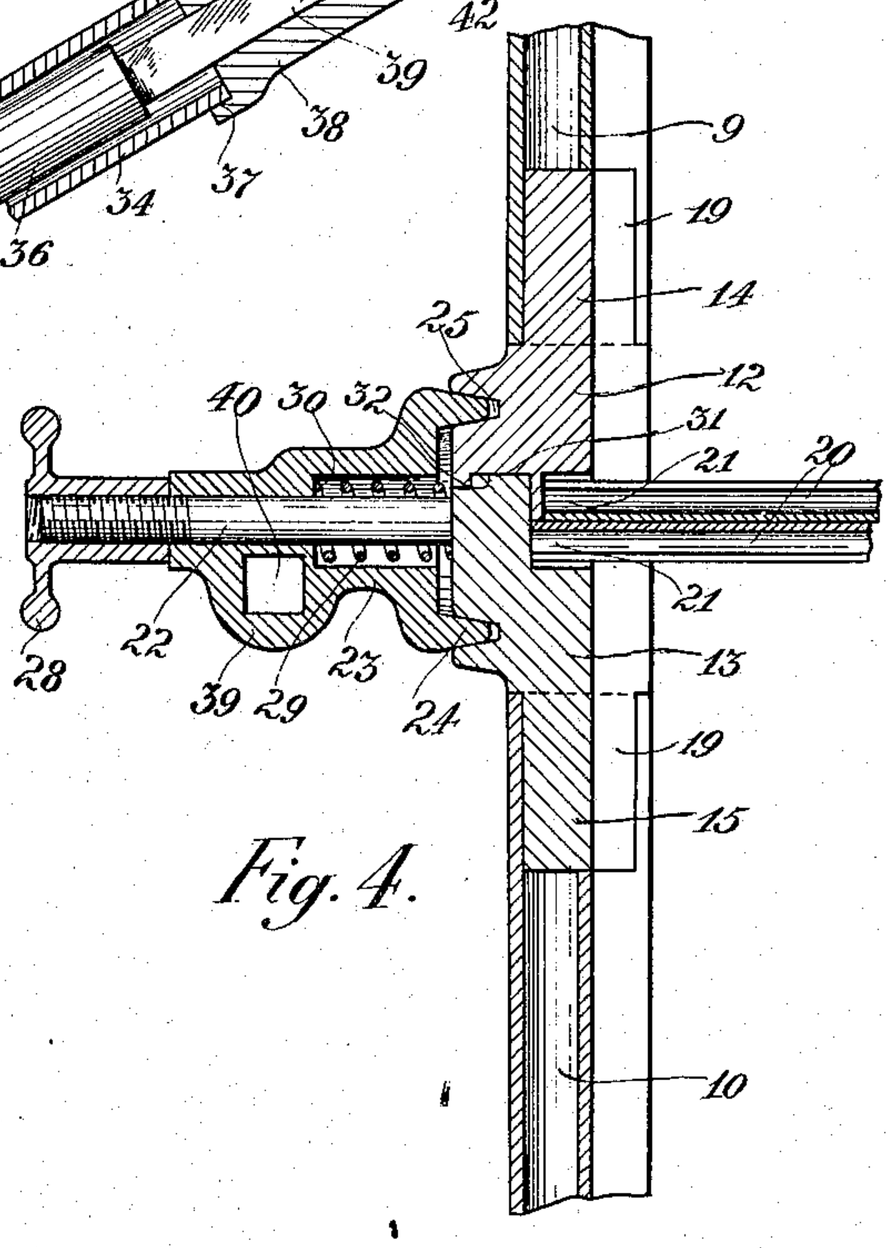


Fig. 4.

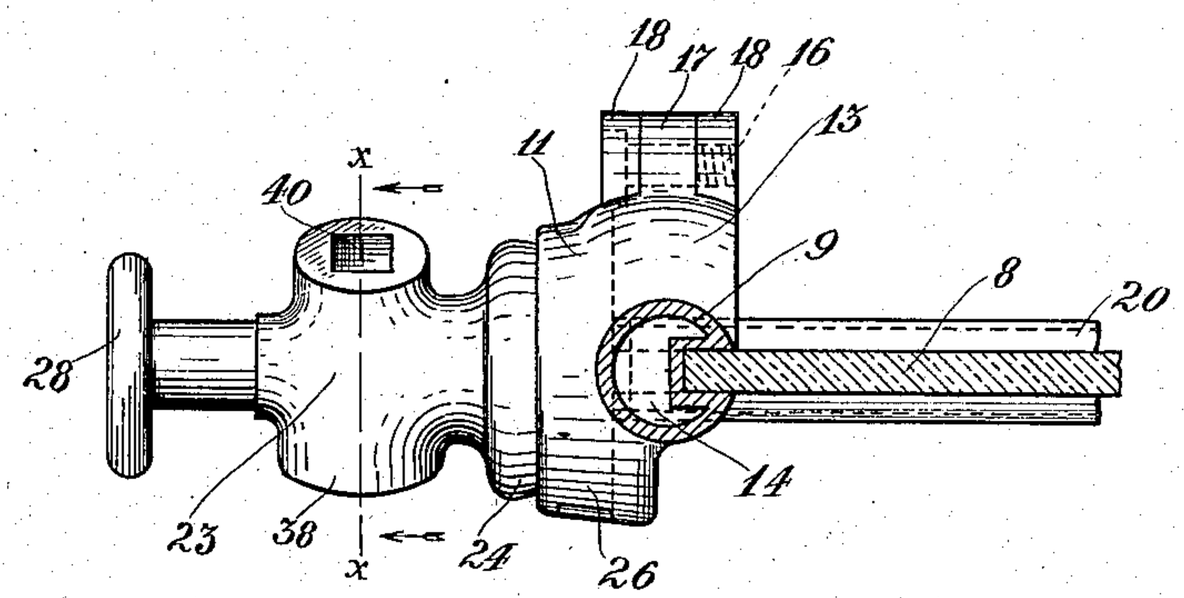


Fig. 3.

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UNITED STATES PATENT OFFICE.

FRANK PARIZEK, OF CHICAGO, ILLINOIS, ASSIGNOR TO UNIVERSAL WIND SHIELD COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

WIND-SHIELD FOR AUTOMOBILES.

No. 930,560. Specification of Letters Patent. Patented Aug. 10, 1909.

Application filed December 11, 1908. Serial No. 467,057.

To all whom it may concern:

Be it known that I, FRANK PARIZEK, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Wind-Shields for Automobiles, of which the following is a specification.

My invention relates to folding shields for automobiles and other vehicles, and more specifically to the hinge connections between the foldable parts thereof.

The object of my invention is to provide a hinge of the character stated provided with means for rigidly locking the parts of said hinge together when the shield parts connected thereby are in alinement with each other.

A further object of my invention is to provide a hinge of a character as mentioned provided with locking means as stated adapted to be readily and easily operated, and which will be of the highest possible efficiency and of a neat and finished appearance.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in a hinge, similar forms thereof being adapted to be embodied in a shield of the character described, at the extremities of the adjoining edges of the foldable parts thereof.

My invention further consists in a locking member in operative connection with said hinge parts, the same being provided with a projecting annular flange adapted to rest snugly in an annular groove formed in said hinge parts.

My invention further consists in means for holding said locking member in engagement with said annular groove, and in certain other details of construction which will be hereinafter fully described and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which—

Figure 1 is a perspective view of the front portion of an automobile provided with a shield in which is embodied the preferable form of my device. Fig. 2 is a front elevation of said shield in which is embodied my hinge connection. Fig. 3 is a detail top plan view of my device. Fig. 4 is a longitudinal section thereof. Fig. 5 is a side elevation thereof in opened position, the hinge-locking member thereof being removed, and Fig. 6 is a vertical transverse section taken on the line *x*—*x* of Fig. 3, the upper extremity of one of the shield brace-rods employed in connection with my device, being shown secured therein.

Referring now to the drawings 1 indicates a folding shield consisting of the upper and lower parts 2 and 3 respectively, the lower part thereof being secured in any suitable manner to the vehicle, preferably to the upper edge of the dash-board thereof, by means of a support 4. Said shield is formed of the preferably channeled tubular frame 5, in each of the upper and lower parts 6 and 7 respectively of which is mounted a glass plate 8. Interposed between the adjacent extremities of the vertically disposed portions 9 and 10 respectively of the frame parts 7 and 8 are similar locking hinge members 11, preferably formed of cast brass, although any other suitable material may be used if desired. It is in said hinge members that my invention is wholly embodied. The hinge portion proper of each of said members 11 consist of the upper and lower parts 12 and 13 respectively, to the reduced end portions 14 and 15 respectively of which are secured, preferably by brazing, the adjacent extremities of the before mentioned portions 9 and 10 of the frame 5. Said parts 12 and 13 of each of said members 11 are hingedly secured together by means of a hinge pin 16, resting in alining perforations provided for the reception of the same in the interjacent offset hinge lugs 17 and 18 of said parts 12 and 13 respectively. For the reception of the glass plates 8, I provide each of said parts 12 and 13 with channels 19 in alinement with each other and with the channel of the frame parts 9 and 10. Each of the adjoining edges of the glass plates 8 rests in a preferably substantially semi-circular sheet metal channel member 20, the extremities of which are secured, preferably by brazing, in semi-circular recesses 21 provided for the reception of the same in the hinge parts 12 and 13 of the member 11. In order to facilitate locking said shield parts in alining position, as shown in Fig. 1, I provide the hinge part 13 with a cylindrical projection 22, preferably in alinement with the adjoining edges of the shield parts 2 and 3. Loosely resting upon said cylindrical projection is a tubular member 23, the enlarged circularly formed inner edge

portion 24 of which is tapered as clearly shown in Fig. 4, said edge portion being adapted to fit snugly in a correspondingly tapering annular groove 25 formed partly in the enlarged substantially semi-cylindrically formed portion 26 of the hinge member 12 and partly in the enlarged substantially semi-cylindrically formed portion 27 of the member 13, as shown in Fig. 5, for the reception of the same. A hand wheel 28 threaded upon the outer end portion of the projection 21, the same abutting the outer extremity of the member 23 obviously facilitates forcing said edge or flange portion 24 of the member 23 into engagement with the groove 25, as shown in Fig. 4. A coil-spring 29 interposed between the portion 27 of the member 13 and a shoulder 30 formed in said member 23, serves an obvious purpose. By forming the flange portion 24 and the groove 25, correspondingly tapering in construction as described, and further by forcing said groove of a greater depth than the width of said flange, as shown in Fig. 4, it is obvious that when said flange portion of said member 23 is in engagement with said groove, said parts 2 and 3 will be securely and rigidly held in alinement with each other, and because of the latter provision, all wear upon the contacting surfaces of said flange and said grooved portions will be taken up, thereby adapting my device to efficiently fulfil its purpose at all times. By unscrewing the hand wheel 28 until the flange 24 is out of engagement with said groove 25, the hinge members 11 will permit of folding said shield parts 2 and 3 together, that is, the part 2 may be positioned parallel to the part 3, as shown in Fig. 5. In order to facilitate rigidly holding the parts 12 and 13 against possible relative lateral movement, when in closed position, I form the contacting surface 31 of the enlarged portion 27 of the member 13 grooved in construction, and form the contacting surface 32 of the enlarged portion 26 of the member 12 tongued in construction, said contacting faces being adapted to form, when said parts 12 and 13 are in closed position, a tongue and grooved connection between said parts, as clearly shown in Figs. 2 and 4. By such construction it is obvious that all possible relative movement of the hinge parts will be eliminated, the same being, by such provision, positively held in rigid position.

33 indicates an extensible brace-rod one being provided at either side of the shield in order to support or brace the same. Each of said rods consists of telescopic tubular members 34 and 35 of any suitable length and diameter, and a rod 36 resting within the member 34 of said tubular members. Said brace-rods are so constructed that by drawing the rod 36 upwardly causes the locking of the members 34 and 35 together. Such locking construction, however, is not shown, as it does not form a part of this invention. The upper end portion of the member 34 rests snugly or, is preferably brazed in the circular seat 37 provided in an enlarged portion 38 of the member 23 for the reception of the same. The end portion 39 of the rod 36 is preferably square in cross section, the same slidably resting in a slot 40 of the same shape provided in the portion 38 of the member 23 in axial alinement with the circular seat 37. A hand-wheel 41 threaded upon the extreme end portion 42 of the rod 36 facilitates the actuation of said rod.

With the provision of a hinge and locking means in conjunction therewith, of a construction as described, the positive and rigid holding of the parts of a shield in alinement with each other will obviously be insured.

Although I have described my device in conjunction with a shield of certain design, it is understood that I may use the same in connection with any other shield to which it is applicable. And while I have shown what I deem to be the preferable form of my device, I do not wish to be limited thereto, as there might be many changes made in the details of construction and arrangement of parts without departing from the spirit of my invention.

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

1. In a folding shield of the class described, the combination with the foldable parts thereof, of hinge members provided at either of the extremities of the adjoining edges of said foldable parts, each of said hinge members consisting of upper and lower parts having an offset hinge connection, said parts being together provided with a circular groove, means in connection with said hinge parts adapted to engage said circular groove, and manually operable means for holding said last mentioned means in engagement with said groove, substantially as described.

2. In a folding shield of the class described, the combination with the foldable parts thereof, of hinge means provided at either of the extremities of the adjoining edges of said foldable parts, each of said hinge means consisting of upper and lower parts secured together by means of a hinge pin resting in offset hinge lugs formed integrally with said parts, an elongate projection projecting from said lower hinge part, a tubular member mounted upon said projection, the inner end portion of said tubular member being adapted to be snugly received in a groove formed in said upper and lower hinge parts, and means for locking said edge portions of said member in engagement with said groove, substantially as described.

3. In a folding shield of the class described, the combination with the foldable parts

thereof, of hinge means provided at either of the extremities of the adjoining edges of said foldable parts, each of said hinge means consisting of upper and lower parts secured together by means of a hinge pin resting in slotted hinge lugs formed integrally with said parts, an elongate projection projecting from said lower hinge part, a tubular member mounted upon said projection, the inner edge portion of said tubular member being tapering in construction, said edge portion being adapted to engage a tapering circular groove formed in said hinge parts, and a hand-wheel threaded upon said elongate projection adapted to hold said edge portion of said tubular member in engagement with said groove, substantially as described.

4. In a folding shield of the class described, the combination with the foldable parts thereof, of hinge means provided at either of the extremities of the adjoining edges of said foldable parts, each of said hinge means consisting of upper and lower parts in hinged connection, an elongate cylindrical projection laterally projecting from the lower one of said hinge parts, a tubular member mounted upon said elongate projection, the inner end portion thereof being enlarged, the edge portion of said end portion being formed tapering in construction, said edge portion being adapted to engage a correspondingly tapering circular groove provided in the enlarged semi-cylindrical portions of said hinge parts, and means for holding said edge portion of said tubular member in engagement with said groove, substantially as described.

5. In a folding shield of the class described, the combination with the foldable parts thereof, of hinge means provided at either of the extremities of the adjoining edges of said foldable parts, each of said hinge means consisting of upper and lower parts in hinged connection, the contacting surfaces of said hinge parts being in longitudinal tongue and groove connection with each other, a tubular member in connection with said hinge parts adapted, when said parts are in closed position, to enter a circular groove provided in said parts, and means for locking said tubular member in engagement with said groove, substantially as described.

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

FRANK PARIZEK.

Witnesses:
E. H. McCauley,
Helen F. Lillis.