

STORM SHIELD.

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Patented Nov. 16, 1909.

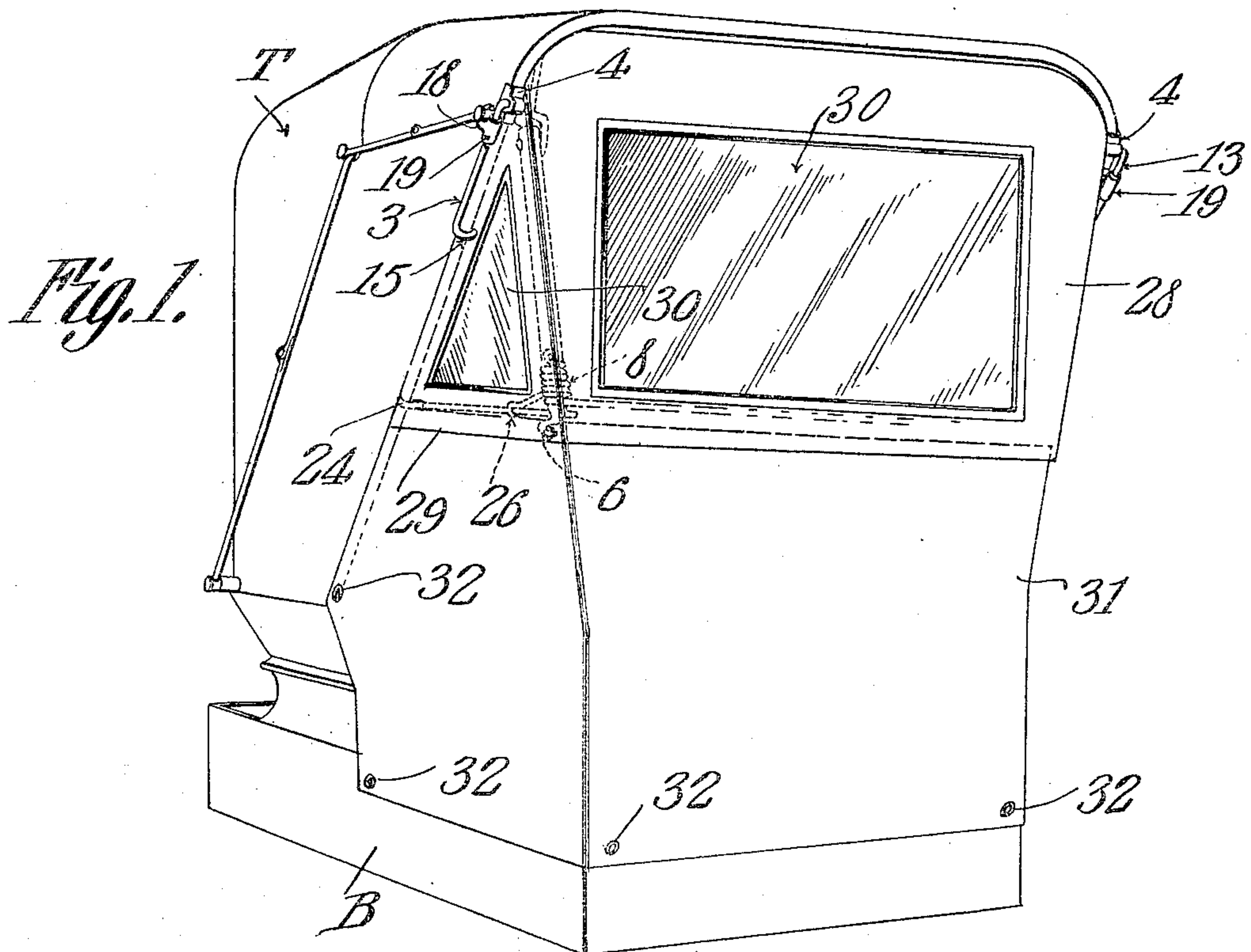
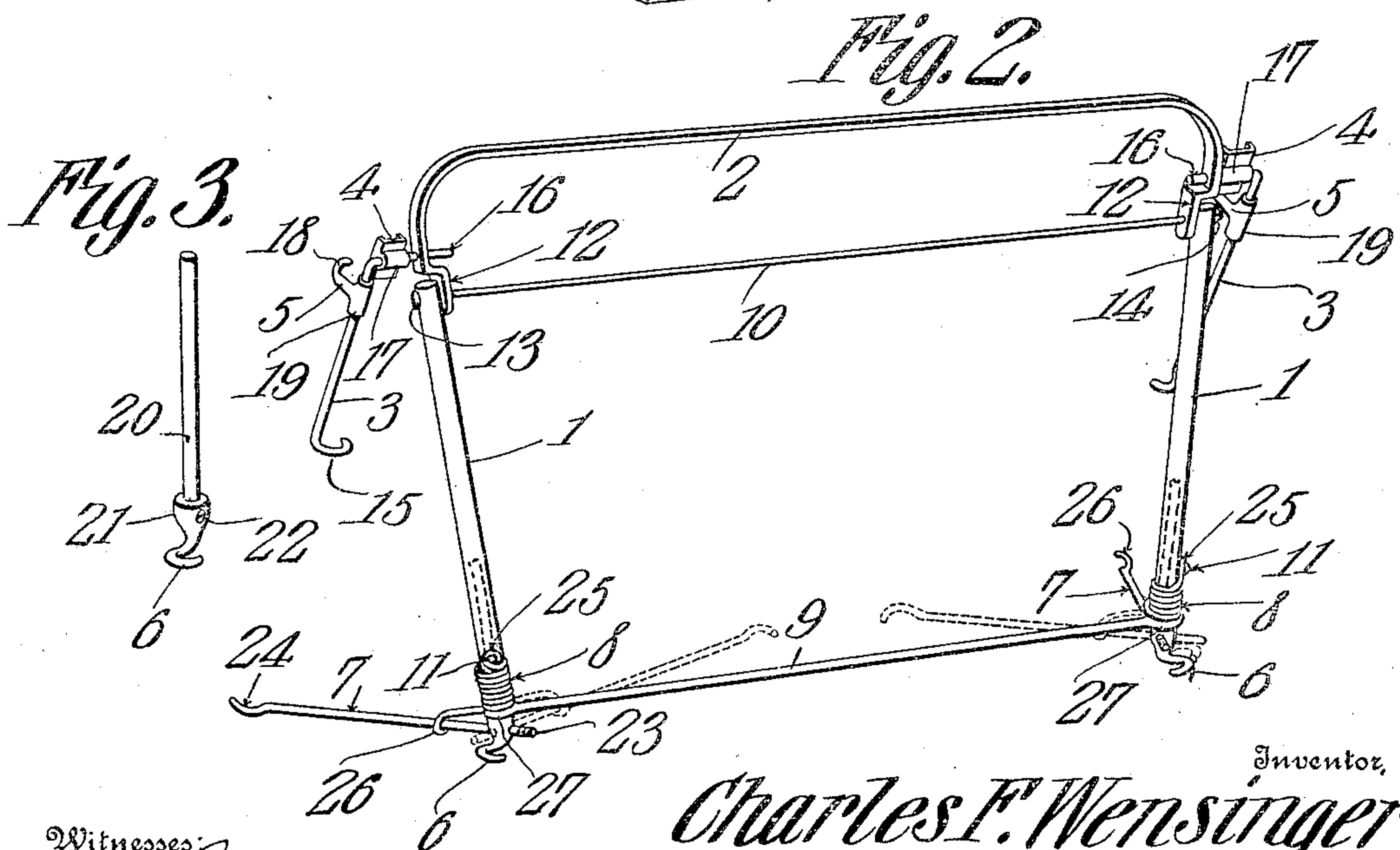


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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STORM-SHIELD.

940,413.

Specification of Letters Patent.

Patented Nov. 16, 1909.

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*To all whom it may concern:*

Be it known that I, CHARLES F. WENSINGER, a citizen of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented a new and useful Storm-Shield, of which the following is a specification.

This invention relates to storm shields for vehicles.

The object of the invention is to provide an article of this character that shall be capable of ready attachment to and detachment from a buggy or carriage top, and in which the parts of the shield shall be so constructed and arranged as not to offer an obstruction to the ingress or egress of the occupant of the vehicle. Furthermore, to provide a storm shield that shall be simple of construction, efficient and durable in use, and which shall be capable of being packed in a comparatively small space, thus to facilitate its transportation.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a storm shield for vehicles, as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of this specification, and in which like characters of reference indicate corresponding parts:—Figure 1 is a view in perspective of the body and top of a buggy, showing the storm shield of the present invention applied thereto. Fig. 2 is a perspective detail view of the frame of the shield. Fig. 3 is a perspective detail view of one of the parts of the shield.

Referring to the drawings, B designates the body of the vehicle, in this instance a buggy, and T the top thereof, and as these parts may be of the usual or any preferred construction, further description is deemed unnecessary.

The present invention resides in a novel shield that is adapted for connection with the top and body of a buggy or other vehicle in connection with which the article is used.

The frame of the shield comprises two tubular standards or supports 1, a yoke 2, a pair of resilient bow engaging arms 3, a pair of bow engaging clips 4 carried by the arms 3, a pair of prop engaging clasps 5, a pair of shield engaging hooks 6, a pair of spring pressed bow engaging arms 7, a pair of coiled springs 8 carried by the standards

1 and arranged to co-act with the arms 7 to cause them to remain in engagement with the buggy bows, a lower brace rod 9 that operates to connect the lower ends of the two standards, and an upper brace rod 10 that is provided for the purpose of connecting the upper ends of the standards, and also as a support for the yoke 2.

Each of the standards 1 consists of a length of tubing that is provided at its upper end with a transverse orifice to receive the rod 10, and adjacent to its lower end is a lap or stud 11 around which is turned one terminal of the spring 8.

The yoke 2 is constructed from a length of flat bar metal and is shaped to conform to the contour of the interior of the front of the top, and has its terminals 12 inset in order that the outer sides of the standards will occupy planes coincident with the outer surface of the bends of the yoke. The terminals 12 are orificed to receive the brace rod 10 and the latter is provided at one end with a head 13 to bear against the outer side of one of the standards, and at its other end with a nut 14 to bear against the outer side of the other standard and which operates to hold the rod assembled with the standards and with the yoke.

Each of the yoke engaging arms 3 consists of a length of resilient wire, of any preferred gage, and is provided at one end with a hook 15 to engage with the intermediate portion of the front bow of the buggy top, and at its other end with a lateral offset 16, that is disposed at right angles to the length of the arm, and is designed to project in an orifice provided in the yoke for the purpose. Each of the bow engaging clips comprises a channeled body, and an orificed boss 17 that is designed to fit upon the offset 16.

Each of the prop engaging clasps 5 comprises a hook 18, and a sleeve 19 to fit loosely upon the arm 3.

Each of the shield engaging clips comprises a shank 20 that is arranged to fit loosely within the standard 1, and a head 21 that carries a hook 6, and is provided with a transverse orifice 22 to be engaged by the threaded terminal 23 of the bow engaging arm 7 which latter is provided with a terminal hook 24 that is designed to engage with the front bow of the buggy top.

Each of the coiled springs 8 which is of a size to fit loosely on the standard 1 is provided at one end with a loop 25 to engage



with the stud 11, and its other end with a loop or hook 26 to engage with the arm 7 and to exert a tension thereon that will tend to make the arm normally turn inward toward the brace rod 9. The brace rod 9 is provided at each end with an eye 27 in which the shanks 20 of the shield engaging hooks project, the insertion of the shanks being limited by the heads 21.

The shield comprises an upper section 28 which may be of any suitable material, and is provided with side flaps 29, the flaps and the portion 28 of the shield being provided with a sheet of transparent material 30 preferably of celluloid. It is designed that the flaps shall fold inward upon the body portion of the upper section, thus to allow the whole to be folded up into the top of the interior of the buggy top, thus to be out of the way when not in use. The lower section 31 of the shield may be constructed of any material suitable for the purpose, such as rubber blanket or enameled cloth, which is held assembled with the front and sides of the buggy bottom by headed pins 32 in the manner common to such devices.

In assembling the shield with a buggy top, the frame, with the upper section 28 of the shield properly secured thereto, is fitted within the top, and the clips 4 are properly adjusted to bear against the front bow, and the hooks 18 are engaged with the two front props of the top. The arms 3 are then flexed in a forward direction to bring the hooks 15 into engagement with the front bow, and this will support the upper portion of the section 28. The lower portion is held secured to the front bows by the arms 7 which are turned against the resistance of the springs 8 to bring the hooks 24 into engagement with the intermediate portions of the side members of the front bow, as shown in Fig. 1. The lower section of the shield is now secured to the front and sides of the box by the headed pins 32, and the upper edge of the section, which is provided with eyelets for the purpose, is hooked into engagement with the shield engaging hooks 6. This completes the assemblage of the shield with the top and it will be seen on Fig. 1 that ingress of rain will be positively precluded to the occupant of the vehicle. When the person desires to leave the buggy it will only be necessary to release one of the bow engaging arms 7 from engagement with the bow, and then unfasten the sides of the sec-

tion 31 of the shield from engagement with the pins 32 at the side of the buggy bottom.

The improvements herein defined are simple in construction, but will be found thoroughly efficient and durable in use, and will result in the presentation of an article that may readily be applied to buggies of common make.

I claim:—

1. A storm shield comprising a pair of standards means at the upper ends of the standards to engage a buggy-top and support a shield, a pair of shield-engaging hooks rotatably connected with the standards, a pair of bow-engaging arms carried by said hooks, and springs carried by the standards and acting on said bow-engaging arms.

2. A storm shield comprising a pair of standards, a yoke carried by said standards, resilient bow-engaging arms attached to the ends of the yoke, bow-engaging clips carried by the upper portions of bow-engaging arms, and prop-engaging hooks on said arms below said clips.

3. A storm shield embodying a pair of standards, a pair of shield engaging hooks rotatably combined therewith, a pair of bow engaging arms carried by the hooks, springs carried by the standards and co-acting with the arms to cause them to engage with the buggy bow, a brace connecting the lower ends of the standards, a yoke arranged at the top of the standards, a brace for connecting the standards and holding the yoke combined therewith, a pair of resilient bow engaging arms carried by the yoke, and a bow engaging clip, and a prop engaging clasp carried by each of the latter arms.

4. A storm shield comprising a pair of standards, means for holding the same properly spaced apart, a pair of shield engaging hooks rotatably connected with the standards, a pair of spring pressed bow engaging arms carried by the hooks, a yoke supported by the upper connecting brace, a pair of resilient bow engaging arms carried by the yoke, and a bow engaging clip and a prop engaging clasp adjustably connected with each of the resilient bow engaging arms.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES F. WENSINGER.

Witnesses:

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JOSEPH BINSACK.