No. 626,821. Patented June 13, 1899.

F. H. BABCOCK.

FOLDING SHADE.

(Application filed Apr. 12, 1898.)

(No Model.)

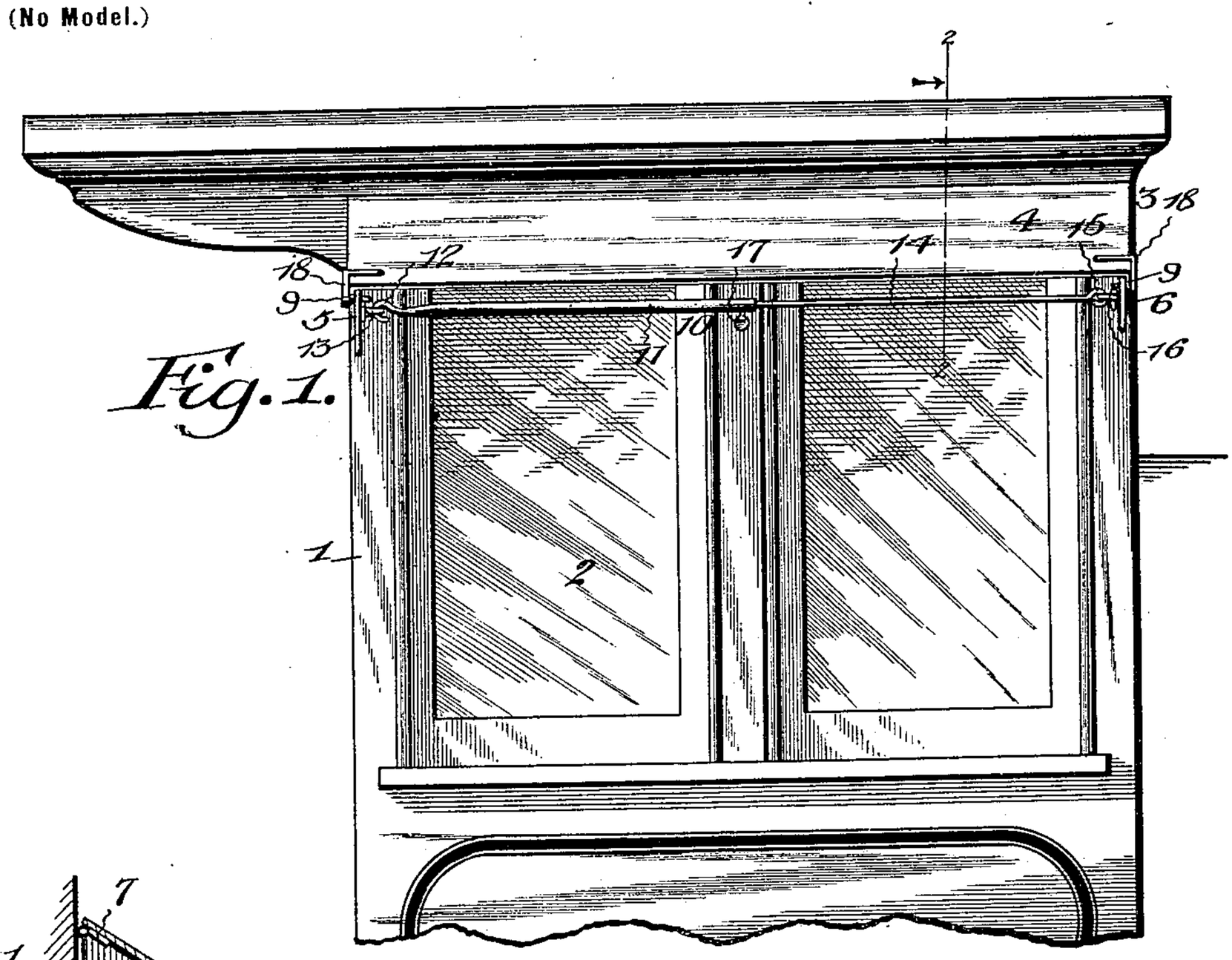

Fig. 1.

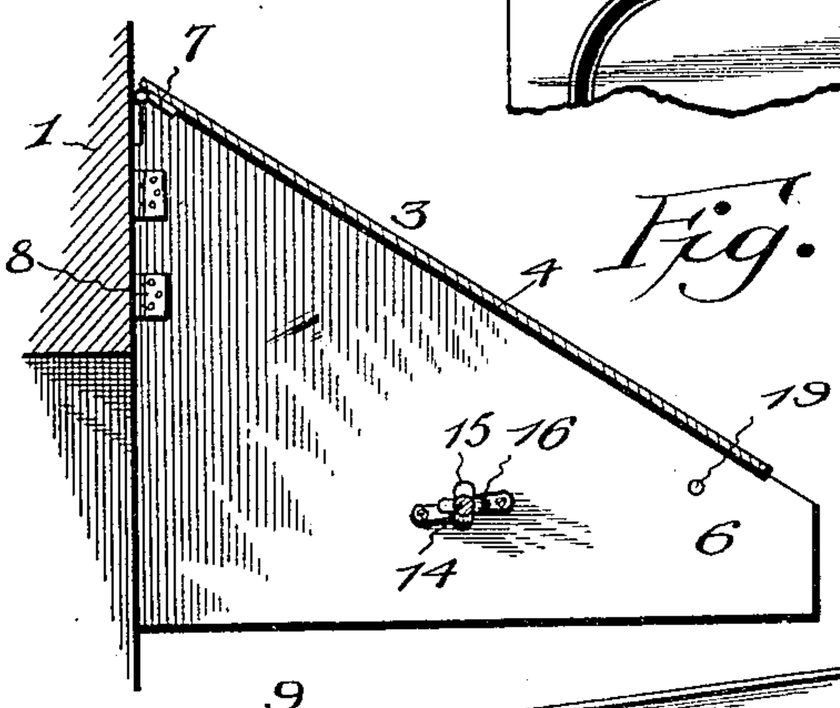

Fig. 2.

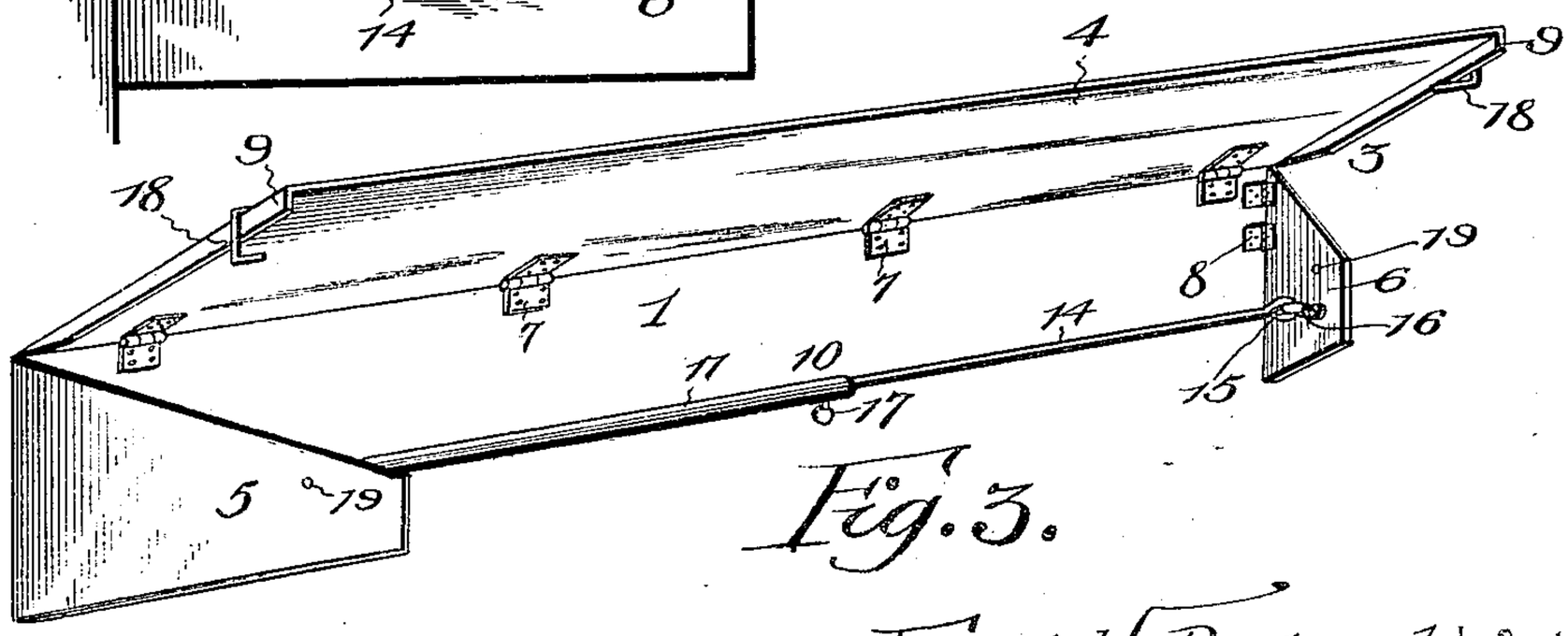

Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

FRANK HARRISON BABCOCK, OF JOHNSONBURG, PENNSYLVANIA.

FOLDING SHADE.

SPECIFICATION forming part of Letters Patent No. 626,821, dated June 13, 1899.

Application filed April 12, 1898. Serial No. 677,329. (No model.)

To all whom it may concern:

Be it known that I, FRANK HARRISON BABCOCK, a citizen of the United States, residing at Johnsonburg, in the county of Elk and State of Pennsylvania, have invented a new and useful Folding Shade, of which the following is a specification.

In the ordinary locomotive-engine the engineer's cab is the widest part of the train, and it is not customary to provide the cab-window, out of which the engineer frequently leans, with means for protecting the engineer against the effects of rain and storms, because such protection is liable to be knocked off by coming in contact with doors of roundhouses or with buildings when a track-switch is laid close to the building or from various causes. In consequence of this lack of protection the engineer is obliged to close the cab-window in stormy weather, and the interior of the cab thus becomes overheated, the result of which is that the engineer becomes sleepy and is not so watchful and careful as he should be, so that accidents are liable to occur which result in damage to railway property and loss of life.

The object of this invention is to provide a shield which affords protection to the engineer against a storm, the sun, and cinders from a locomotive smoke-stack, and at the same time is readily foldable or collapsible in compact relation to the cab, so that the engine may travel in and out of roundhouses or other places without injury to the protector-shade.

A further object of the invention is to provide an improved structure which may be readily applied to ordinary cabs and in which the parts may be readily unfolded and held in a fixed position for use.

With these ends in view my invention consists in the novel construction and arrangement of parts which will be hereinafter fully described and claimed.

To enable others to understand the invention, I have illustrated the preferred embodiment thereof in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a side elevation of a portion of a locomotive-cab with my improvement applied thereto and unfolded in position for use. Fig. 2 is a vertical cross-section on the plane indicated by the dotted line 2 2 of Fig. 1. Fig. 3 is a detail perspective view of the attachment removed from the locomotive-cab and showing the same in its partly-folded condition.

Like numerals of reference denote like and corresponding parts in each of the several figures of the drawings.

In order that others skilled in the art may understand the invention, I have illustrated a part of a locomotive-cab in the accompanying drawings, in which the numeral 1 indicates one side of the cab, and 2 is the window therein. It is to be understood that these parts are ordinary in the art, the present invention residing in the collapsible or foldable shade, which I will now describe in detail.

My protector or shade is indicated in its entirety by the numeral 3, and it consists of the top 4 and the ends 5 6. The top and ends of the protector may be made of metal or other suitable material, and they are applied or connected to the side of the cab in a way to permit the ends to fold inwardly against the cab and the top to fold downwardly against the ends, thus disposing all the parts of the improved protector in a compactly-folded position against the outside of the cab. The top 4 is connected to the cab by means of the hinges 7, of usual or any preferred construction, while the ends are attached to the cab by hinges 8, the latter occupying positions at right angles to the hinges 7. The top 4 is hinged to the cab to occupy a horizontal position thereon, while the ends 5 and 6 are hinged to lie in vertical positions substantially at right angles to the top. In the embodiment of the invention represented by the drawings the ends 5 and 6 are shown as having inclined upper edges against which the top 4 may rest when the protector is unfolded for use, so that the top assumes an inclined position for the purpose of better shedding water from the shade or protector. It is not necessary, however, to make the top assume the inclined position shown. The top is of a length to extend across the cab-window, and the ends are attached to the cab to lie below the ends of the top when the protector is unfolded for service.

To limit the movement of the ends 5 6 of the protector when unfolding the same, the top is provided at its ends with the transverse

flanges 9, which depend from the top and lie in the path of the ends to arrest the outward movement thereof in the operation of unfolding the shade, and these flanges 9 are formed by turning down the end edges of the top when the latter is made of sheet metal.

In connection with this foldable protector-shade I employ a locking contrivance, which serves to hold the parts in their adjusted position when they are unfolded, and in the preferred embodiment of the invention said locking contrivance consists of an extensible rod 10, which is loosely and permanently connected to the ends 5 6, so as to remain attached thereto at all times and to fold therewith. This extensible rod consists, preferably, of a tubular member 11, provided at one end with an eye 12, and a solid member 14, having at the end opposite the eye 12 on the tubular member 11 a similar eye 15. The respective members 11 14 of the extensible rod have their eyes 12 15 loosely engaged with loops 13 and 16 on the inner opposing faces of the end sections 5 6 of the protector or hood. The loops 13 and 16 are formed, preferably, by lengths of metal, which are doubled upon themselves to form the loops and provide feet, through which rivets or other suitable fasteners are adapted to be passed to rigidly secure said loops to the ends 5 6; but the detailed form of the loops is not material. The tubular and solid members of the extensible rod are thus loosely and permanently connected with the hinged ends 5 6 of the protector or shade, and the solid member 14 is slidably fitted in the tubular member 11, so as to fold into said tubular member previous to folding the ends 5 6 on their hinges 8 inwardly toward each other. A set-screw 17 is mounted in a suitable threaded opening in the tubular member 11 of the rod 10, and this screw is adapted to be tightened on the rod member 14 to hold the parts of the rod and the ends in their adjusted positions.

To contribute to the security of the parts of the hood or protector when they are unfolded for service, I employ suitable catches, which are carried by the top and detachably engaged with the ends. In the drawings the catches are shown as consisting of the hook-shaped rods 18, one end of which is rigidly fastened to the top in any suitable way and the other end extends inwardly below the top to fit in a suitable aperture 19 in one of the ends 5 or 6 of the hood.

My protector or hood is readily applied to the side of the cab by attaching the hinges 7 and 8 thereto, and to adapt the device for service the two-part rod has its members loosely connected to the ends and adjustably fastened to each other, the solid member thereof fitting in the tubular member to be engaged by the clamping-screw. When it is desired to use the hood for protecting the engineer against the effects of the sun, storms, and cinders from the locomotive-stack, the top 4 is raised and the ends 5 6 are moved outwardly into positions to engage with the flanges 9 and the fasteners 18, after which the clamping-screw is adjusted to hold the two parts of the rod in fixed relation to each other. The hood or protector in its unfolded position has its parts held against collapsing by the catches or fasteners on the top engaging with the ends and by said ends abutting against the flanges 9, and the locking-rod prevents the ends from folding inwardly, because the clamping-screw prevents such inward movement of the rod members 11 and 14. When the locomotive is designed to travel into or out of a round-house or adjacent to a building or other structure, the engineer should release the clamping-screw 17, draw the two sections of the rod inwardly toward each other, so as to retract the hinged ends from engagement with the fasteners, after which the ends may be folded inwardly against the side of the cab and the top lowered against the folded ends. In folding the hood or protector the extensible rod 10 folds with the hinged ends, and thus the locking-rod may remain attached to the foldable ends of the protector, so as to be in position for service at any and all times.

I am aware that changes in the form and proportion of parts and in the details of construction may be made by a skilled mechanic without departing from the spirit or sacrificing the advantages of the invention, and I therefore reserve the right to make such modifications as fall within the scope of the invention.

Having thus described the invention, what I claim is—

1. A foldable protector or hood comprising a hinged top, hinged ends, and a two-part rod connected with the ends and having suitable fastening means for holding the members of the rod and the end sections of the hood in their adjusted positions, substantially as described.

2. A foldable protector or hood for locomotive-cabs comprising a hinged top, the ends hinged independently of the top to be foldable in the planes at right angles thereto, a two-part rod with its members connected to the hinged ends and provided with a clamp, and fasteners carried by the top and engaging detachably with the hinged ends when the hood is unfolded for use, substantially as described.

3. In a foldable protector-hood, the combination of hinged ends, an extensible locking-rod connected permanently with said ends and foldable therewith, and a top hinged independently of the ends to rest thereon when the protector-hood is unfolded, substantially as described.

4. In a foldable protector-hood, the combination of hinged ends having the beveled upper edges, a top hinged in a plane at right angles to and above the hinged ends, said ends arranged to fold inwardly toward each other and to be inclosed by the top when the

parts are folded inwardly, a sectional locking-rod connected to and foldable with the hinged ends, and devices for locking the top and ends firmly together in their unfolded positions, substantially as described.

5. In a foldable protector-hood, the combination of the hinged ends arranged to fold inwardly toward each other, an extensible locking-rod loosely connected to said ends to be foldable therewith and having a clamping device to hold the ends firmly in their unfolded positions, a top hinged above the ends and adapted to rest thereon, and fasteners engaging with said top and ends to maintain the parts firmly in their unfolded positions, substantially as described.

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

FRANK HARRISON BABCOCK.

Witnesses:
B. L. FINK,
E. H. HYATT.