H. SYKES.

Wooden Frame for Hinged Awnings.

No. 167,709. Patented Sept. 14, 1875.

Fig. 1.

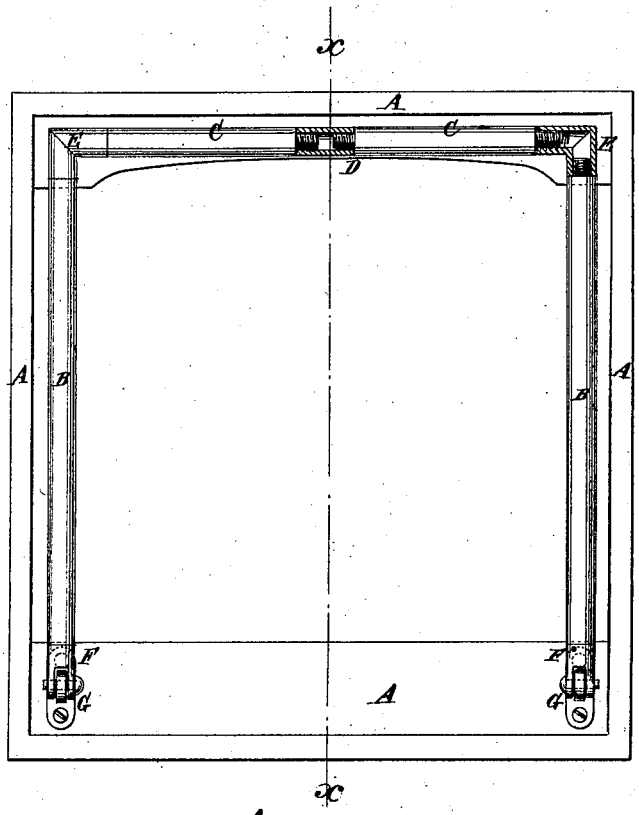
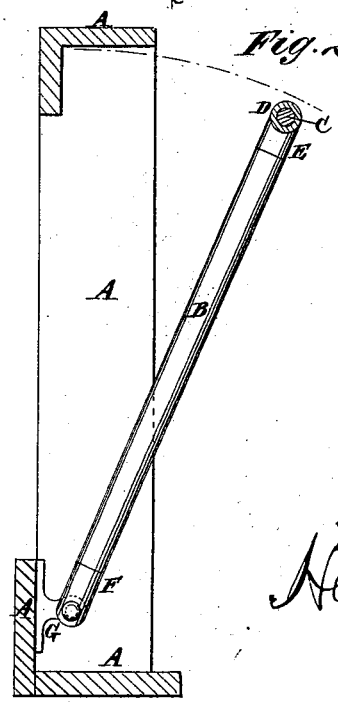


Fig. 2.



WITNESSES:

A. W. Almquist

A. F. Terry

INVENTOR:

Henry Sykes

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY SYKES, OF NEW YORK, ASSIGNOR TO HIMSELF AND WILLIAM CAMPBELL, OF BROOKLYN, N. Y.

IMPROVEMENT IN WOODEN FRAMES FOR HINGED AWNINGS.

Specification forming part of Letters Patent No. **167,709**, dated September 14, 1875; application filed July 24, 1875.

To all whom it may concern:

Be it known that I, HENRY SYKES, of the city, county, and State of New York, have invented a new and useful Improvement in Wooden Frames for Hinged Awnings, of which the following is a specification:

Figure 1 is a front view of my improved frame, (shown as applied to a window-frame.) Fig. 2 is a vertical cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish improved frames for awnings to take the place of the iron frames now in use, and which shall be lighter than said iron frames, stiffer, not liable to rust, and stain, and wear out the cloth, and at the same time cheaper in manufacture, and the use of which will avoid the delay now experienced when the awning-maker has to wait for a blacksmith to make and fit the frames.

The invention consists in wooden side and top bars in combination with the metallic elbow-couplings, provided with screw-threaded sockets, into which the ends of the bars are screwed, so as to make a secure and reliable joint, the said bars and sockets being made flush with each other, so as to form a perfectly smooth frame, which is not liable to become tangled in the cloth, or wear and tear the same.

A represents a window-frame. B are the side bars, and C is the front bar, of the frame, which are made of wood. The side bars B will usually be made in one piece. The front bar C, when the awning is narrow, as for the doors and windows of private houses, will be made in one piece; but when the awning is wide, as for the show-windows and fronts of stores, the front bar C may be made in two or more pieces. In this case the said parts or pieces have round tenons formed upon their adjacent ends, which are screwed into the opposite ends of a straight tubular coupling, D, which has screw-threads cut upon its inner surface, and the diameter of which should be the same as that of the parts of the said top bar, so that the said top bar may be even and smooth throughout its entire length. The upper ends of the side bars B and the outer ends of the front bar C have round tenons formed upon them to screw into the ends of the tubular elbow-couplings E, which have screw-threads cut upon their inner surfaces. The lower ends of the side bars B have round tenons formed upon them to screw into the sockets F, which have screw-threads cut upon their inner surfaces, and the lower ends of which are hinged to pivots G, attached to the frame of the door or window.

The couplings D E and the sockets and pivots F G are designed to be made of malleable iron; but they may be made of any other suitable metal.

I am aware of the fact that a jointed wooden frame folding inside the window has been used heretofore with the window-shade, so as to enable the latter to be used as an awning; and I therefore disclaim this idea, and confine my invention to an awning-frame fixed outside the window, and consisting of wooden rods with tenons, which are screwed into metallic screw-threaded elbow-couplings, so as to make a smooth, rigid, and secure frame, which is lighter and cheaper than iron, and not liable to the corrosive action of the weather, and the consequent discoloration and injury to the awning-cloth.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The awning-frame, consisting, essentially, of the metallic screw-threaded elbow-couplings E and the wooden bars B C, provided with tenons, which are screwed into the said couplings, so as to make a perfectly rigid and smooth frame.

HENRY SYKES.

Witnesses:

JAMES T. GRAHAM,

T. B. MOSHER.