

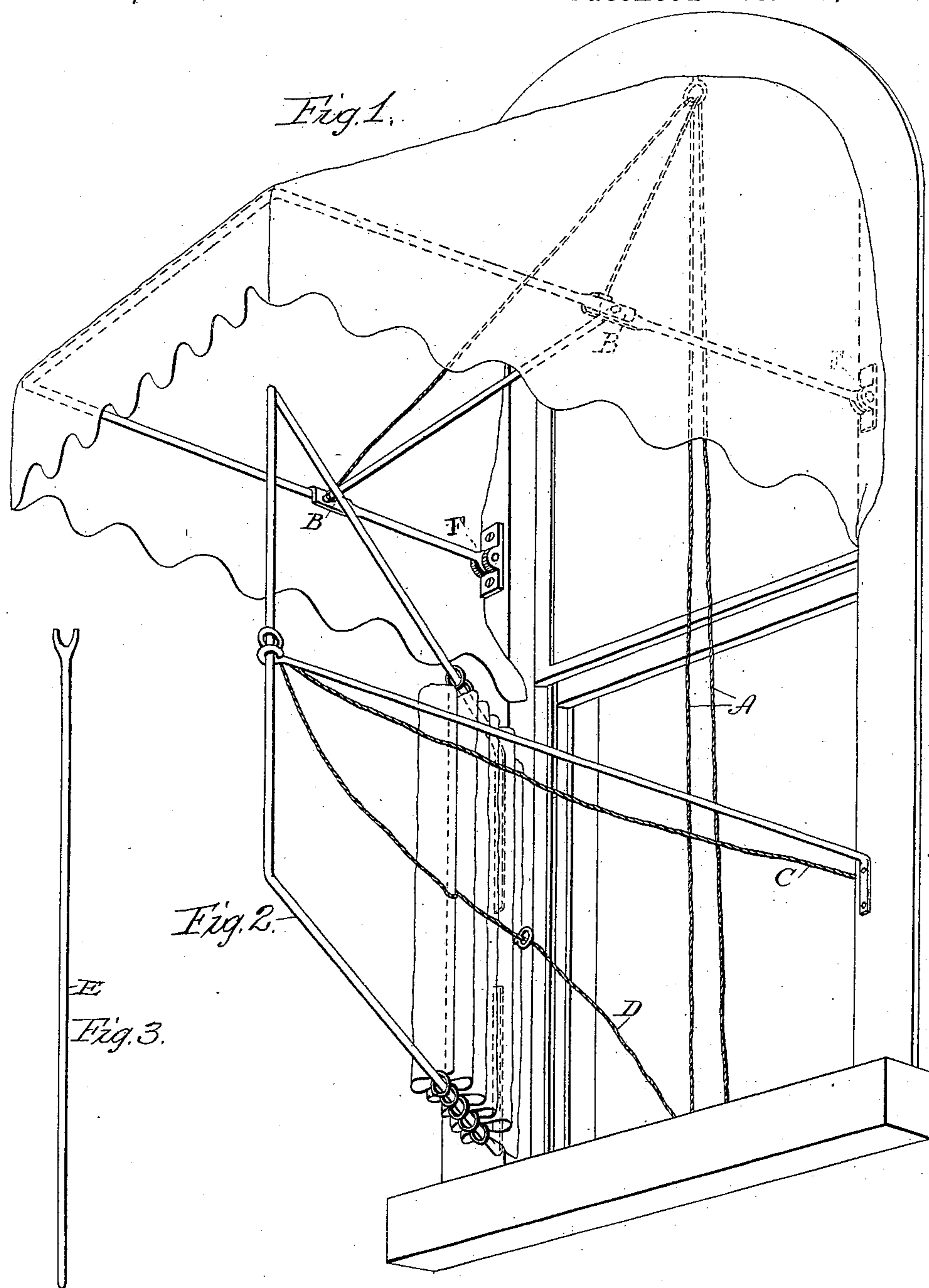
(No Model.)

W. F. MORGAN & G. KAUFFMANN.

WINDOW SHADE.

No. 309,867.

Patented Dec. 30, 1884.



Witnesses:

Sam<sup>l</sup> Phillips  
E. K. Morgan

Inventors  
Walter F. Morgan.  
Geo. Hauffmann.

# UNITED STATES PATENT OFFICE.

WALTER F. MORGAN AND GEORGE KAUFFMANN, OF LEAVENWORTH, KANS.

## WINDOW-SHADE.

SPECIFICATION forming part of Letters Patent No. 309,867, dated December 30, 1884.

Application filed April 14, 1884. (No model.)

*To all whom it may concern:*

Be it known that we, WALTER F. MORGAN and GEORGE KAUFFMANN, citizens of the United States, residing at Leavenworth, in the county of Leavenworth and State of Kansas, have invented certain new and useful Improvements in Window-Shades; and we do hereby declare that the following is a clear, full, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

The object of the invention is to afford more protection from the sun by giving the shade a greater projection than that found in the shades now in use, to allow a freer ingress of air by attaching the frame of the shade at a higher point on the window-frame, and to supplement the shade by a sail, in order to exclude all the rays of the sun in both the forenoon and afternoon from buildings which have either an eastern or western exposure.

It is found that in those parts of the United States which in hot weather receive the prevailing southern or "gulf" breeze no apartments are comfortable except those which have both north and south exposures, unless made so by some special arrangement, which our invention is intended to supply. So well is this fact known that in our own city apartments which are shut off from this natural current of cool air command considerably less rents than those more eligibly located. Now, as will be readily seen by our drawings, a sail placed at an angle of forty-five degrees to fifty degrees to a building having a western exposure not only excludes all the afternoon sun, but catches the gulf breeze, so as to convey it through the apartments. The sail offers the same advantages, so far, at least, as catching the prevailing gulf breeze is concerned, for rooms that front to the east, from which the total exclusion of the sun is not so important, because of the fact that the morning rays have not, ordinarily, the intensity of the evening rays.

Figure 1 represents the shade extended. To close it, pull on the double cord A, when it will fold upon the hinges B B.

Fig. 2 represents the sail reefed. To spread it, pull on the left-hand cord, C. To reef it, pull on the right-hand cord, D.

The fork E, Fig. 3, is used to extend the shade.

The shade and sail may each be used independently of the other.

The frame of the shade is made of three-eighths or one-half inch iron wire covered with ducking or any other suitable material, and has two elbow hinge joints, B B, which allow the shade to fold downward, and is attached to the outside of the window-frame by simple full hinge joints F F.

The defect of the shade in common use is that it does not exclude the early morning or late afternoon sun, unless made to drop to the bottom of the window, in which case it has the disadvantage of preventing the free ingress of air. The sail obviates this defect.

The frame of the sail is made of same size of iron wire as the shade proper, is covered with corresponding material, and is screwed to one side of the window-frame, first being bent to an angle of about forty-five degrees, and is held securely in place by a brace which is screwed to the other side of the window-frame. The movable or free end of the sail folds in a rod of wood of a length corresponding to the width of the sail, and the other end is tacked to the inside of the window-frame.

To the upper and lower borders of the sail are fastened a series of metal rings, which keep it in position and cause it to slide smoothly back and forth on its frame.

We claim—

The combination of the shade and sail frames with the increased projection to the shade proper and a side shade or sail, substantially as and for the purpose set forth.

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Witnesses:

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