

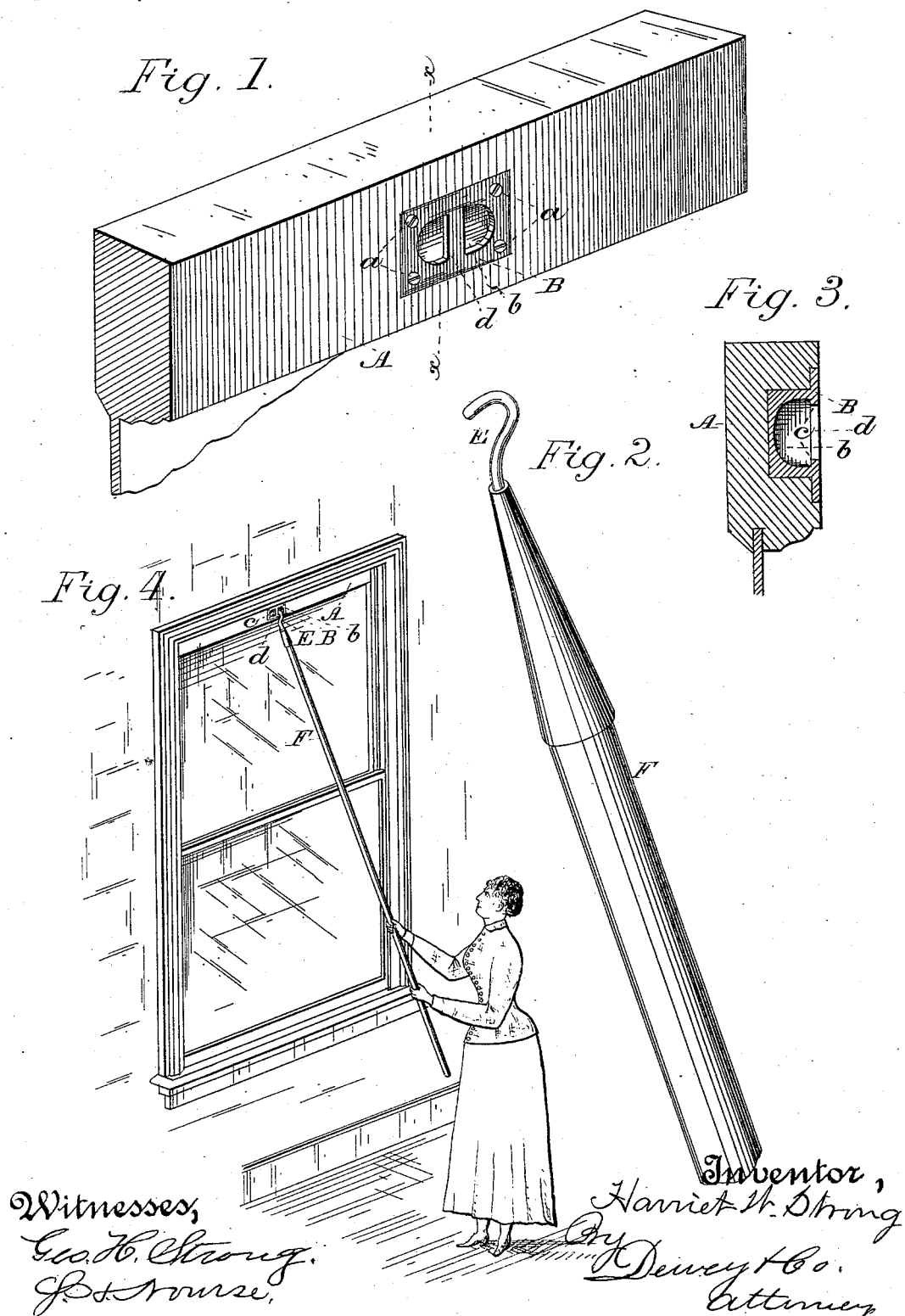
(No Model.)

H. W. STRONG.

DEVICE FOR RAISING AND LOWERING WINDOWS.

No. 306,188.

Patented Oct. 7, 1884.



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# UNITED STATES PATENT OFFICE.

HARRIET W. STRONG, OF OAKLAND, CALIFORNIA.

## DEVICE FOR RAISING AND LOWERING WINDOWS.

SPECIFICATION forming part of Letters Patent No. 306,188, dated October 7, 1884.

Application filed May 12, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HARRIET W. STRONG, of the city of Oakland, county of Alameda, and State of California, have invented an Improvement in Devices for Raising and Lowering Window-Sashes; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a new and useful device for raising and lowering the upper sash of a window; and it consists in a metal socket having a flanged rim and a central transverse bar, said socket being let into the face of the upper bar of the sash, and in a peculiar hook adapted to enter said socket and engage the cross-bar and flange, as I shall hereinafter fully explain.

The object of my invention is to provide a simple and effective means for raising and lowering the upper sash of a window.

Referring to the accompanying drawings, Figure 1 is a perspective view showing the socket applied to the upper bar of the window-sash. Fig. 2 is a perspective view of the hook. Fig. 3 is a transverse section on line *xx* of Fig. 1. Fig. 4 is a perspective view showing the application of my device.

A represents the upper bar of a window-sash.

B is a metal piece formed into a socket, *b*, and let into the bar A, the piece being secured thereto by screws *a*. The socket has an encircling-flange, *c*, on its outer rim, and a bar or rib, *d*, extends transversely over the front of the socket.

E is a hook, having a complex bend, as shown in Fig. 2, and provided with a handle, F, of suitable length.

The use of the device is as follows: The hook is inserted through one of the semicircular openings of the socket *b*, and it passes behind and engages with the cross-bar or rib *d*, its point embracing the other edge of the rib, whereby a firm hold is obtained to pull the sash down; but even if the hook be not inserted so far, its point may slip down behind

the flange *c*, thus giving it a bearing or hold while its body engages the cross-bar, thus effecting a very secure connection. When the force is exerted upwardly, in order to raise the sash, the top of the hook presses against the upper wall or roof of the socket, while its body and point are confined by the cross-bar and by the flange of the socket, and are securely held. The peculiar bend of the hook enables it to be readily inserted in the socket, and a slight turn is sufficient to carry its point behind the cross-bar, by which it is held in place.

The metal piece B may be polished, burnished, or plated to present as ornamental an appearance as desirable, and the hook and handle may be likewise made attractive.

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

1. A device for raising and lowering a window-sash, consisting of a metal plate, B, secured to the sash and having a socket, *b*, and a cross-bar or rib, *d*, over its face, in combination with a handled hook, E, bent in a manner suitable to effect a connection by entering the socket and engaging behind and with the cross-bar or rib *d*, substantially as herein described.

2. A device for raising and lowering a window-sash, consisting of a metal plate, B, secured to the sash and having a socket, *b*, with a flange, *c*, encircling its face, and a vertical cross-bar or rib, *d*, over its face, in combination with a handled hook, E, bent in a manner suitable to effect a connection by entering the socket and engaging behind and with the cross-bar or rib and the flange, substantially as herein described.

In witness whereof I have hereunto set my hand.

HARRIET W. STRONG.

Witnesses:

WILL H. BURRALL,  
ROBERT A. JACKSON.