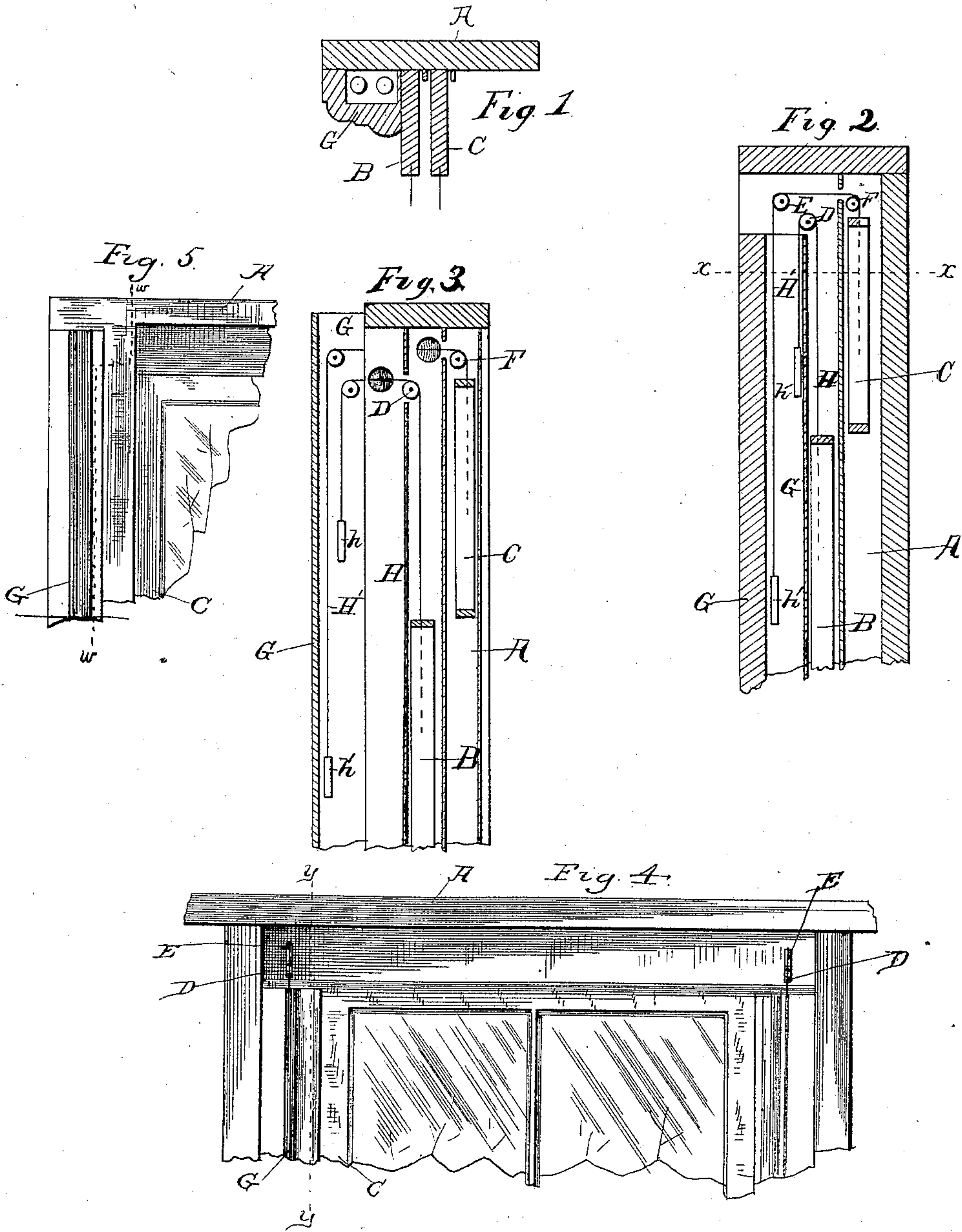


(No Model.)

C. A. SIGLE.
WINDOW.

No. 409,310.

Patented Aug. 20, 1889.



WITNESSES

Charles F. Mallues
W. H. Palmer

INVENTOR

Charles A. Sigle
per
Stoddart & Co.
his Attorneys

UNITED STATES PATENT OFFICE.

CHARLES A. SIGLE, OF YOUNGSTOWN, OHIO.

WINDOW.

SPECIFICATION forming part of Letters Patent No. 409,310, dated August 20, 1889.

Application filed December 20, 1888. Serial No. 294,201. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. SIGLE, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented new and useful Improvements in Windows, of which the following is a specification.

My invention relates to an improvement in windows; and it consists in the peculiar construction and arrangement of parts hereinafter described and claimed.

The object of my invention is to provide an arrangement whereby the ordinary weight-pulley and cord may be applied to a casing for raising and lowering the windows without cutting away or especially forming the casing for the reception of the same. I attain this object by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a cross-section on the line xx of Fig. 2. Fig. 2 is a vertical section on the line yy of Fig. 4. Fig. 3 is a sectional view of the modified construction on the line ww of Fig. 5. Fig. 4 is a front elevation of a window with my attachment partly broken away; and Fig. 5 is a front elevation of a frame and window, partly broken away, showing the modified form.

In many buildings the windows are arranged without weights, in which case it is impossible to supply them, owing to the fact that the casing is not made properly for the reception of the same, and in every case it is necessary to alter, either by cutting out portions or inserting new casing, to make the application. To avoid this necessary alteration of the casing and to permit the weight attachment to be applied to all houses with but little trouble and expense is the principal object of my invention.

In the drawings, A represents an ordinary window-casing, B the lower and C the upper window-sash. Secured to each side of this casing above the window-sashes are three pulleys D, E, and F, the former being to one side of the sash, projecting on one side, directly over the sash, and on the other beyond the side of the sash, the pulley E being over the same and beyond it, while the pulley F is on the same plane as pulley E and located above the upper window.

Located at the side of the sashes, inside the

window, is a detachable boxing G, formed with a rectangular opening in its center of sufficient diameter to admit two weights, a molded or fancy curved outer face and straight inner and side faces enabling it to fit closely into the corner formed by the sash and casing, the upper end of this boxing being open and placed below the inner pulleys.

H and H' are the cords attached to the sashes, the former passing over pulley D and extending down into the boxing, its lower end being provided with a weight h , while the latter passes over the pulleys E and F and enters the box by the side of the other cord. It also has a weight h' attached to its lower end.

By this construction it will be readily seen that it is only necessary to attach the boxing to the inner face of the casing, which can be readily done by suitable nails or screws, and place the pulleys in the position described, all of which can be quickly and cheaply done without altering the structure.

The addition of the boxing beautifies the appearance of the window as well as doing away with the inner beading.

In Fig. 3 I have shown a modified form of the arrangement of the boxing, it being located on the outer face of the inside of the window-frame, the cords passing through suitable inclined openings formed in the casing, each cord passing over suitable pulleys in the boxing. This form may be necessary in cases where the casing is narrow.

Having thus described my invention, what I claim as new is—

The combination, with the casing and window-sashes, of a pulley, as D, arranged above the lower sash, two pulleys, as E and F, arranged above the other pulley on the same plane, the pulley F being over the upper sash, a boxing, as G, having a center opening admitting of the free movement of two weights, said boxing fitting in the corner formed by the sash and casing, and cords passing over the pulleys, having weights attached to their ends inside the boxing and connected with the sashes, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES A. SIGLE.

Witnesses:

CHAS. F. MALLARD,
T. GUY SONGSTER.