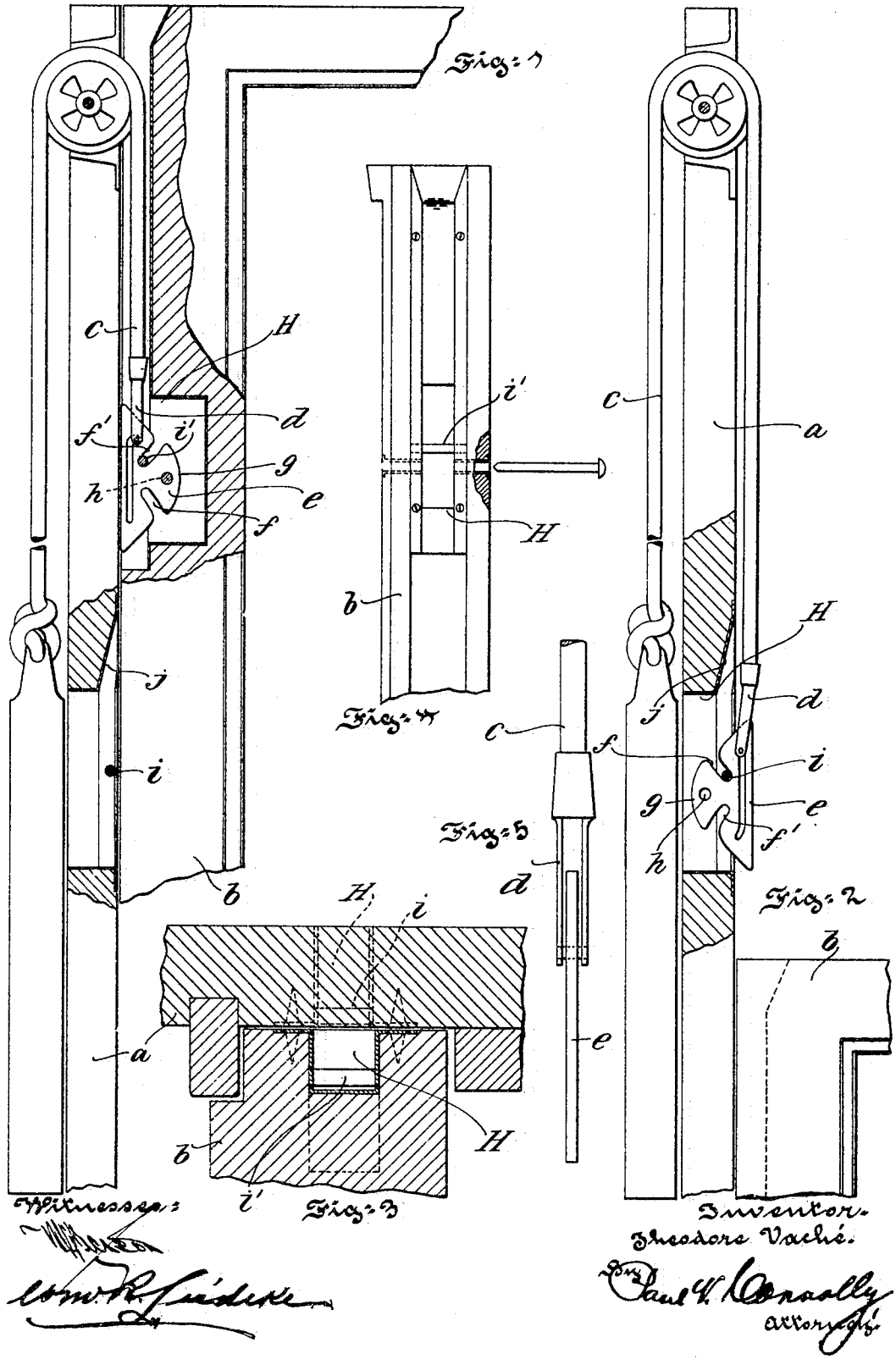
No. 782,086. PATENTED FEB. 7, 1905.

T. VACHÉ.

DEVICE FOR CONNECTING OR DISCONNECTING WINDOW SASH CORDS.

APPLICATION FILED SEPT. 22, 1904.



No. 782,086. Patented February 7, 1905.

UNITED STATES PATENT OFFICE.

THEODORE VACHÉ, OF PHILADELPHIA, PENNSYLVANIA.

DEVICE FOR CONNECTING OR DISCONNECTING WINDOW-SASH CORDS.

SPECIFICATION forming part of Letters Patent No. 782,086, dated February 7, 1905.

Application filed September 22, 1904. Serial No. 225,461.

To all whom it may concern:

Be it known that I, THEODORE VACHÉ, a citizen of the United States, residing in the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Device for Connecting or Disconnecting Window-Sash Cords, of which the following is a specification.

The principal object of the invention is to provide for the removal of window-sash for repairing, cleaning, and other purposes in an expeditious manner and by means of a device that is simple to manipulate, strong and durable in construction, and comparatively inexpensive to manufacture.

The invention consists of the improvements hereinafter described and finally claimed.

The nature, characteristic features, and scope of the invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is a central sectional view of a portion of a window stile and sash, showing the shiftable catch in normal or working position. Fig. 2 is a similar view showing the position of the catch when the sash has been removed. Fig. 3 is a cross-sectional view of a portion of the stile and sash, showing the sockets. Fig. 4 is a detail view of one of the sockets, and Fig. 5 is a detail of the coupling-link.

Referring to the drawings, (which for the sake of illustration show but one shiftable catch, although in use there would be one upon each side of each window-sash,) *a* is the window-stile, and *b* the window-sash. As is customary, the stile is provided with a pulley and window cord and weight. As shown, the free end of the window-cord *c* is provided with a coupling-link *d*, the bifurcated end of which is fitted with a pin. (See Fig. 5.) Having slotted engagement with this coupling is what may be termed a "shiftable" catch *e*. Inclined slots *f* and *f'* are formed in the catch, and these slots tend to form what may be termed a "toe" *g*, having therein an aperture *h*, corresponding to a similar aperture in the window-sash and adapted to receive a retaining-pin to normally secure the sash and catch together.

H represents grooved sockets provided at suitable distances below the pulley and top of sash upon the window stile and sash, respectively. Across the deepest portions of these sockets are pins or rods *i* and *i'*. The toe of the catch rests within this deep portion, and the rod is engaged by one of the slots. Obviously if the catch is secured to the sash by the retaining-pin the sash may be readily raised and lowered.

In using the device the operation would be as follows: Assuming that the sash is in normal position, Fig. 1—that is, in the position just described—and that it be desired to remove the sash for repair or other purposes, the retaining-pin is removed and the sash, together with the catch, moved in the direction of the grooved socket in the stile. The said socket is provided with an inclined wall *j*, which guides the pointed end of the catch into the socket and against the rod *i*. The sash in the meantime is being pushed downward, and by reason of the fact that the rod *i'* is still in the slot *f'* the pressure exerted upon the catch causes the same to tumble over upon itself, assisted by the pulling upward of the weighted cord through its slotted connection with the catch, thereby causing the slot *f* to engage the rod *i*. (See Fig. 2.) After the window-sash has been removed from the window-frame in the well-understood manner and replaced the same is pushed upward, with the above operation reversed and the retaining-pin pushed to place. This alternating or shiftable catch is simple in operation and affords a very expeditious mode of connecting and disconnecting window-cords.

It will be obvious to those skilled in the art to which the invention relates that modifications may be made in details without departing from the spirit thereof. Hence the invention is not limited further than the state of the art may require; but,

Having thus described the nature and ob-

jects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the character described the combination in a window sash, stile and cord of a coupling-link, a shiftable catch having slot-and-pin connection therewith, said catch being provided with inclined slots and adapted to alternately engage grooved sockets in the stile and sash, and a retaining-pin adapted to hold the catch in position upon the sash, substantially as described.

2. In a device of the character described the combination in a window sash, stile and cord of a link, a reversible catch pivotally connected with said link and adapted to alternately engage grooved sockets in the said stile and sash and means for connecting and disconnecting said catch with the sash, substantially as described.

In testimony whereof I have hereunto signed my name.

THEODORE VACHÉ.

In presence of—
ADA W. SUMERFIELD,
WM. R. LIEDIKE.