

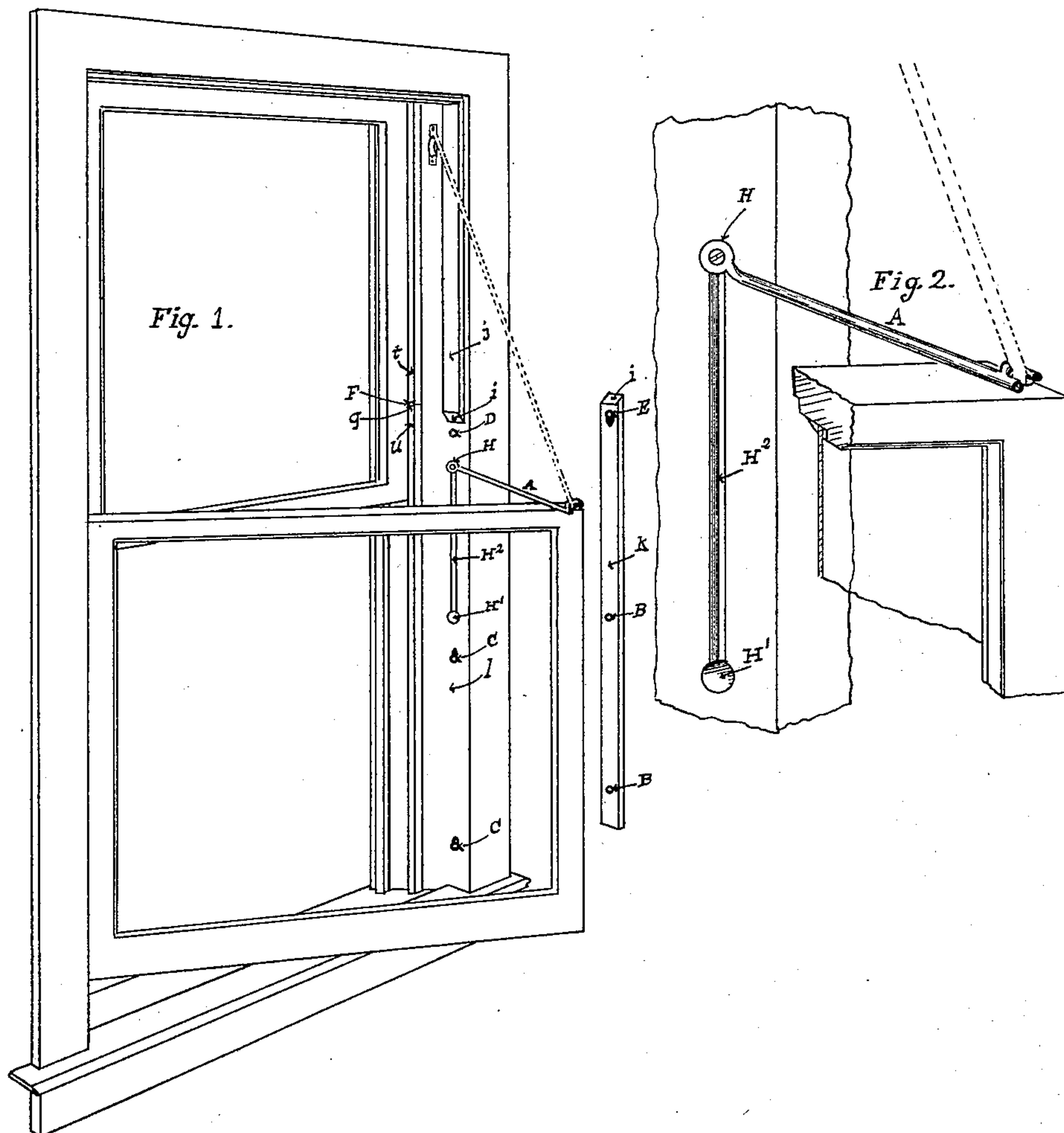
No. 698,760.

Patented Apr. 29, 1902.

J. M. THORP.
WINDOW OPENER.

(Application filed Sept. 13, 1900.)

(No Model.)



WITNESSES:

D. M. Thorp.
V. E. Thorp.

INVENTOR.

J. M. Thorp.

UNITED STATES PATENT OFFICE.

JAMES MADISON THORP, OF ALAMEDA, CALIFORNIA.

WINDOW-OPENER.

SPECIFICATION forming part of Letters Patent No. 698,760, dated April 29, 1902.

Application filed September 13, 1900. Serial No. 29,923. (No model.)

To all whom it may concern:

Be it known that I, JAMES MADISON THORP, a citizen of the United States, residing at Alameda, in the county of Alameda and State of California, have invented a new and useful Window-Opener, of which the following is a specification.

My invention relates to improvements in windows, whereby vertically-sliding and weighted windows are made to swing inward for convenience in cleaning the outer surface thereof. I attain this object by means of the device illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the inside of an ordinary window with the lower half of the inside bead removed and the bottom sash swung inward without hinges, but hanging on its cords and held open by means of a brace hereinafter described; and Fig. 2 is a larger perspective of the upper right-hand corner of the same sash, together with that part of the window-jamb to which the brace is attached, showing the position of the brace and cord when the sash is held open.

Similar letters refer to similar parts throughout the several views.

To improve an ordinary window in the manner described, I first cut the window-bead at *i*, Fig. 1, as shown, dividing the same into the fixed portion *j* and the movable portion *k*. Then into that part of the jamb *l* exposed by removing the bead *k* I bore a shallow hole at *H* and a deeper hole at *H'*, the distance apart being the length of the brace *A*, and between these holes I cut a groove *H²*. Then with a screw or pin I loosely pivot the eye end of the brace *A* in the hole *H* and set the forked end and the shank into the hole *H'* and groove *H²*, respectively. In this position the brace remains flush with the jamb *l*, thereby allowing the sash to be swung freely inward supported by its own cords and without hinges and held open by means of the brace *A*, as

shown. I then lower the upper sash, cut the parting-bead at *F*, and remove the lower half of the same, then swing said upper or outer sash inward against the one already open, and change the fork of the brace *A* to the cord of the outer sash. Thus both sash are held open by the same brace.

With the sash put back into place and both beads secured in their proper place by suitable fasteners the operation for using is as follows: Remove the bead *k*, raise the lower sash a few inches above the window-sill, and swing the right-hand side inward, swing the brace *A* out of its pocket and place the fork over the cord, as shown in Figs. 1 and 2. A person may now stand between the sash and window-sill while cleaning the outside of the glass. Then lower the top sash nearly to the sill, remove the parting-bead *u*, and swing sash inward against the other and change the brace-fork to the outer cord. This glass may now be cleaned on the outside. Now reverse the above operations and the window will assume the usual conditions of the ordinary window.

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

In a window-opener a brace made with a fork at one end to receive a window-cord and an eye at the other to receive a pin or screw, said eye loosely countersunk and pivoted in a window-jamb immediately behind the window-bead, a pocket formed in said jamb to receive said brace, substantially as shown and described and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES MADISON THORP.

Witnesses:

D. M. THORP,
V. E. THORP.