

J. S. Elkins, Sash Balance.

No. 93,071.

Patented July 27, 1869.

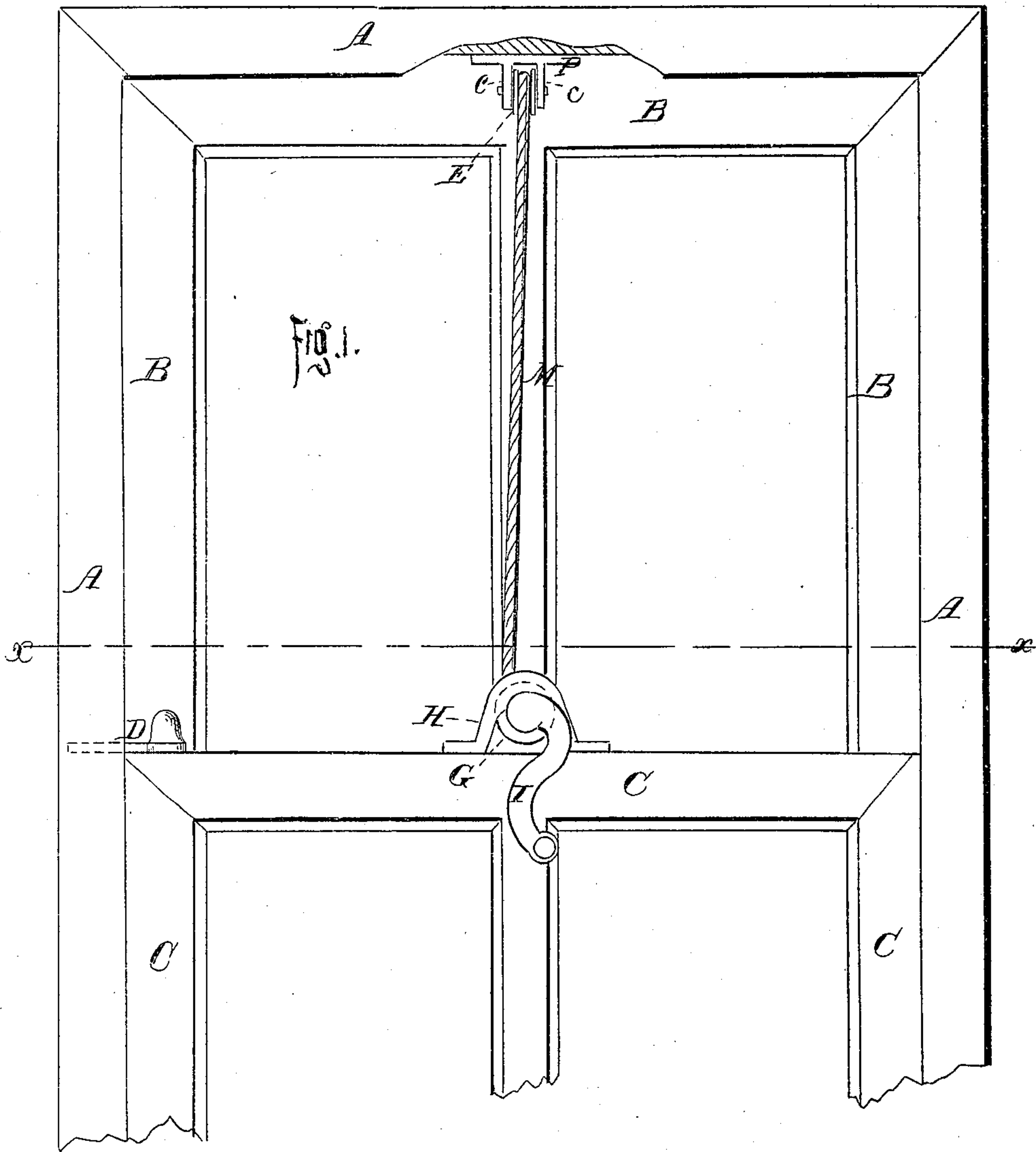
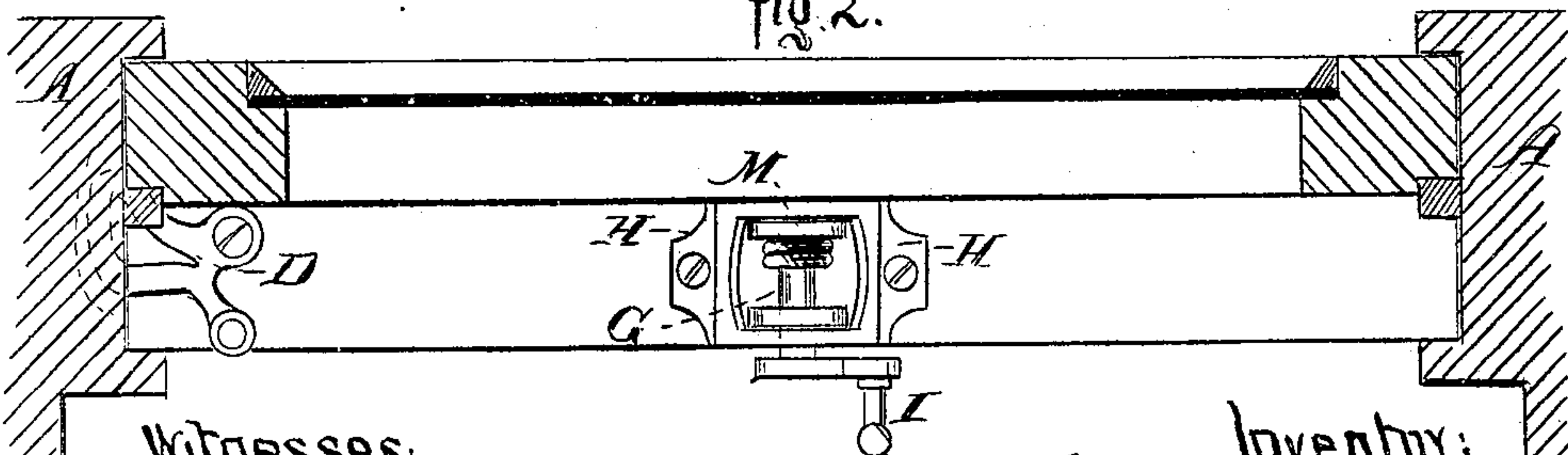


FIG. 2.



Witnesses:

C. A. Pettit
S. C. Kemmer

Inventor:

J. S. Elkins
by *Wm. H. C.*
Attorneys

United States Patent Office.

J. S. ELKINS, OF MARQUETTE, WISCONSIN.

Letters Patent No. 93,071, dated July 27, 1869.

IMPROVED SASH-HOLDER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, J. S. ELKINS, of Marquette, in the county of Green Lake, and State of Wisconsin, have invented a new and improved Window-Sash Adjuster; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view.

Figure 2 is a horizontal section through the line *xx* of fig. 1.

The object of this invention is to provide for public use a simple, cheap, and convenient device for adjusting and controlling both sashes of a window, setting either or both them, at the same time, at any required height, and operating without the use of weights or springs; and

It consists in a tapering-cap or housing attached to the top or meeting-rail of the lower sash, and having arranged within it a spool, which not only serves to wind up the cord that elevates the sashes, but serves also to hold the same in any desired position, by the friction, alone, of the said spool against the inner sides of the housing, as will be hereinafter fully explained.

In the drawings—

A is the window-casing;

B, the upper sash;

C, the lower sash;

D, an eccentric, pivoted to the lower sash, and capable of being made to project into a slot, or beneath a catch in the window-casing, and thereby locking the lower sash down, or in any other desired position, according to the height of the slot or catch from the window-sill;

E, a roller or sheave, attached to the top of the window-casing by means of a plate, F, having lugs *cc*;

G, a roller or spool, attached to the top piece of the lower sash, by means of a supporting-plate, H, and provided with a crank-handle, I; and

M, a cord, attached, at one end, to the roller G, and at the other to the upper edge of the upper sash, and passing over the sheave E, its length being such that when both the upper and lower sashes are closed, as seen in fig. 1, the cord will be drawn taut.

By means of this cord, the two sashes balance each other. By turning the crank I, the cord can be wound around the roller, or unwound, and the two sashes, thus adjusted in any desired position.

It will be observed, from fig. 1, that the plate or housing H is narrower toward its upper end than at the bottom, and that when the cord draws the spool upward, the terminal disks or flanges of the spool will wedge between the tapering walls of the part H. In practical operation, this produces so much friction between the spool and its enclosing case, that, if not otherwise fastened, the spool will not unwind in consequence of the weight of the sash, but will remain fixed in position, holding the sash up until some other force is applied to turn it, and let the sash down. It thus forms one of the simplest and most convenient fastenings that can be devised for the purpose.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the tapering cap or housing H, open at its upper end, with the spool G, when constructed to operate substantially as and for the purposes specified.

J. S. ELKINS.

Witnesses:

S. H. PALMER,

A. MCEACHAM.