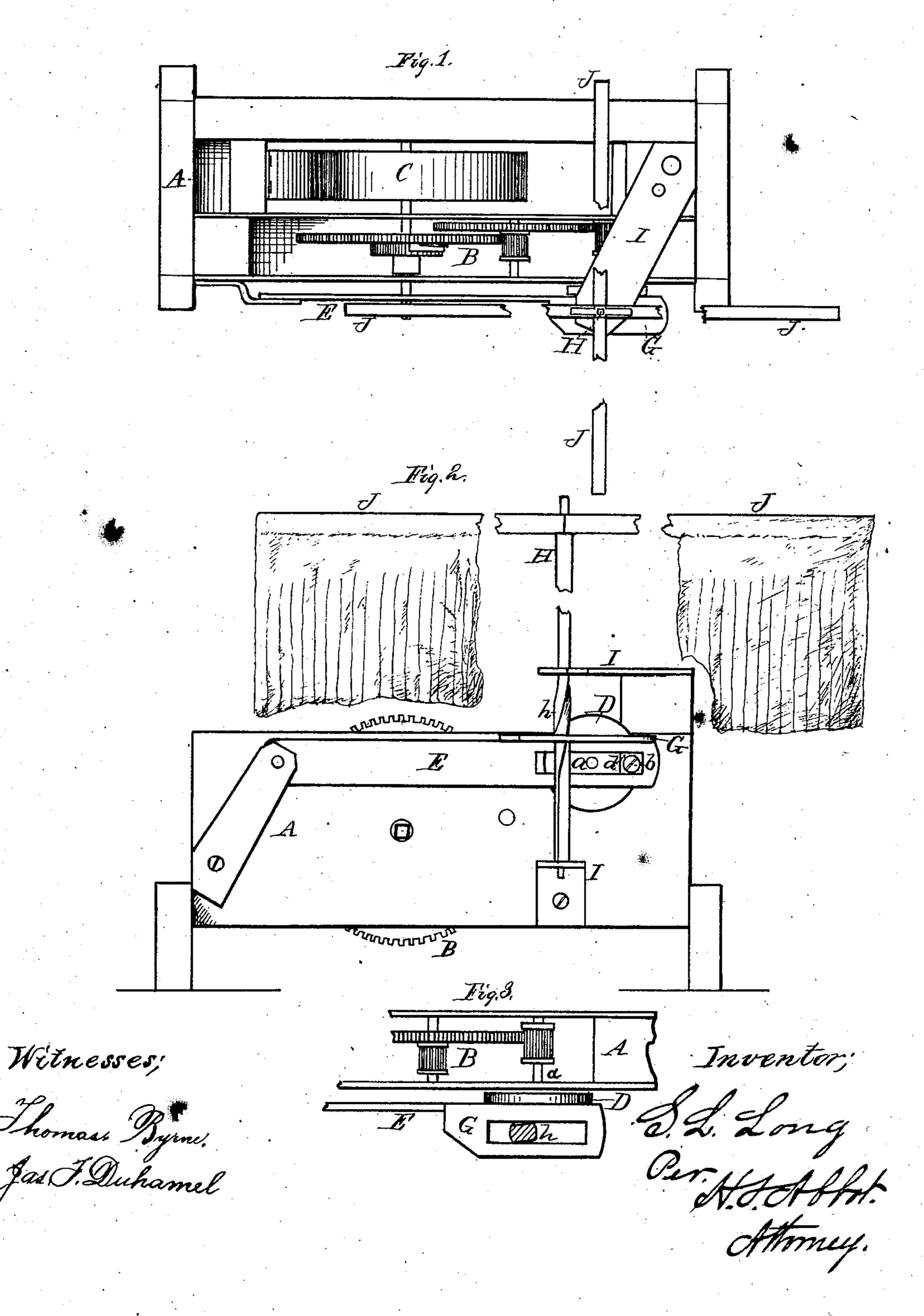
S. L. LONG. Automatic Fly-Brush.

No. 162,482.

Patented April 27, 1875.



THE GRAPHIC CO.PHOTO-LITH.39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

SAMUEL E. LONG, OF KEITHSBURG, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO W. D. SMITH.

IMPROVEMENT IN AUTOMATIC FLY-BRUSHES.

Specification forming part of Letters Patent No. 162,482, dated April 27, 1875; application filed March 29, 1875.

To all whom it may concern:

Be it known that I, Samuel L. Long, of Keithsburg, county of Mercer and State of Illinois, have invented certain new and useful Improvements in Fly-Brush, of which the following is a specification:

My invention consists in the construction and arrangement of a fly-brush for tables, operated by clock-work, as will be hereinafter

more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a plan view, and Fig. 2 a side elevation, of my fly-brush. Fig. 3 is a detached view of the connection between the

clock-work and fly-brush shaft.

A represents the case or frame, divided by means of longitudinal partition in two compartments, one containing the clock-work B, and the other the operating-spring C, thus giving more room for said spring to expand. a is the last shaft in the train B, and on the end of said shaft is secured a disk, D, having a crank-pin, b, on its outer side. On this pin is loosely placed a box, d, which slides in a longitudinal slot in one end of a lever, E, which is pivoted at its other end to the frame or casing A. The lever E is provided with an outwardly-projecting lip or flange, G, which

is slotted longitudinally, and passed over a spiral part, h, of a vertical shaft, H, placed in suitable bearings I I, and having at its upper end arms J J, to which the brushes K K are attached.

When the clock-work is in motion the disk D is kept continually revolving; thereby moving the lever E, with its flange G, continuously up and down; and as this flange is placed over the spiral part h of the shaft H a reciprocating rotating motion is imparted to the shaft, and the arms and brushes attached thereto.

Having thus fully described my invention, what I claim as new, and desire to secure by

Letters Patent, is—

1. In a fly-brush operated by clock-work, a spiral shaft, upon which the brushes are secured, in combination with a reciprocating lever, for imparting to said shaft a reciprocating rotating motion, substantially as herein set forth.

2. The combination of the revolving disk D, with crank-pin b and box d, the pivoted slotted lever E, with slotted flange G, and the shaft H, having spiral part h, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this

18th day of March, 1875.

SAMUEL L. LONG.

Witnesses:

HENRY L. LONG, WM. D. SMITH.