J. B. CLARKE.

STOP-MOTION FOR DRAWING-FRAMES.

No. 192,682. Patented July 3, 1877.

Fig. 1.

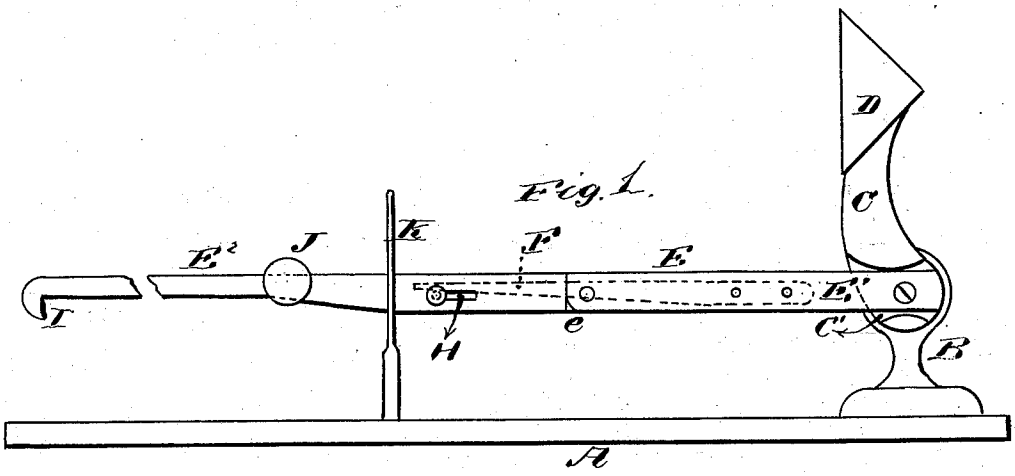
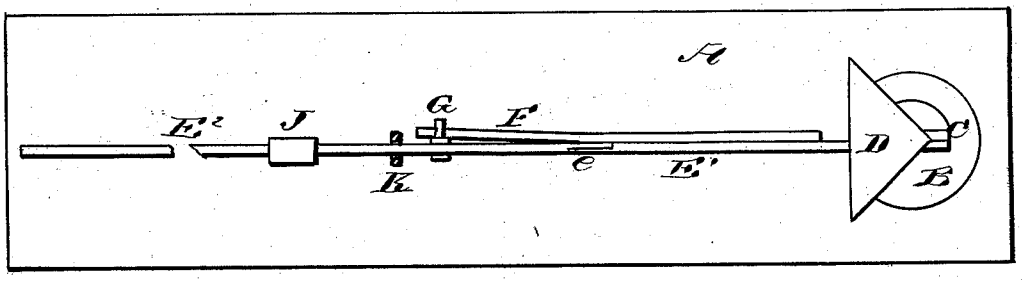


Fig. 2.



WITNESSES

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JEROME B. CLARKE, OF WOONSOCKET, RHODE ISLAND, ASSIGNOR OF ONE-HALF HIS RIGHT TO JOHN A. BENNETT, OF SAME PLACE.

IMPROVEMENT IN STOP-MOTIONS FOR DRAWING-FRAMES.

Specification forming part of Letters Patent No. **192,682**, dated July 3, 1877; application filed March 24, 1877.

To all whom it may concern:

Be it known that I, JEROME B. CLARKE, of Woonsocket, in the county of Providence and State of Rhode Island, have invented a new and valuable Improvement in Stop-Motion for Drawing-Frames; 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my stop-motion for drawing-frames, and Fig. 2 is a plan view thereof.

The object of this invention is to provide a drawing-frame with devices for stopping motion whenever the sliver breaks or a knob or enlargement of the same comes in contact with the trumpet.

In the accompanying drawings, A designates the bed-piece of my apparatus, and B a small standard supported thereon, to which is pivoted the lower end of a bar, C, that supports a trumpet, D, through which the sliver passes. The side of the lower part of said bar C is recessed at C′, so as to leave a convexity above and another below the same, and in said recess sets the rear end of a lever, E, which has the same pivot as trumpet-carrying bar C. Lever E consists of a rear part, E^1, and a forward part, E^2, that are pivoted together, provided with engaging-shoulders *e*, so that the said lever can be bent downward, but not upward. Said downward bending is resisted by a spring, F, which is attached by one end to rear section E^1, and bears at the other end upward against a screw-threaded stud, G, which is adjustable backward and forward in a longitudinal slot, H, of section E^2. The tension of said spring is regulated by said adjustment. The forward or free end of said lever is provided with a catch or hook, I, which, when in its lowest position, engages with any suitable devices to stop the machine. An adjustable weight, J, is also attached to said section E^2, and a staple, upright loop, or slotted standard, K, supported on bed A, limits the upward motion of lever E.

When the sliver is running properly through trumpet D it holds catch I up, so that the machinery will not be impeded; but when the sliver breaks, weight J causes lever E to fall, stopping the machine. When a knob, knot, or enlargement of the sliver reaches trumpet D, it (being unable to pass through the same) turns said trumpet on its pivot, raising said lever until staple or slotted standard K bends down section E and catch I stops the machine as before mentioned. Stud G may be smooth instead of screw-threaded, a slotted plate may be substituted for standard K, and the other devices may be modified in various ways without departing from my invention.

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

1. In a stop-motion for drawing-frames, the combination, substantially as hereinbefore described, of the sectional stop-motion lever E, the spring F, the sliver-trumpet D, and a staple, K, all constructed and arranged for the purpose set forth.

2. The combination of weighted slotted section E^2, pivoted section E^1, spring F, and adjusting-stud G, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JEROME B. CLARKE.

Witnesses:

GEORGE A. WILBUR,

AMOS SHERMAN.