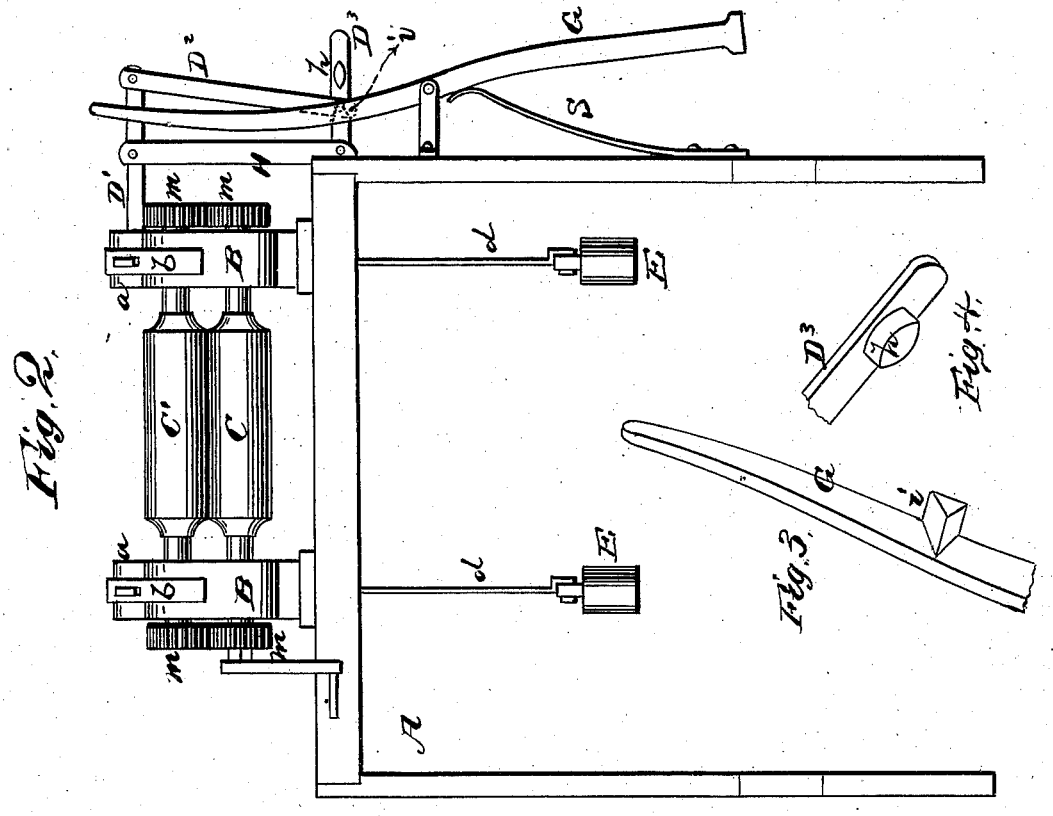
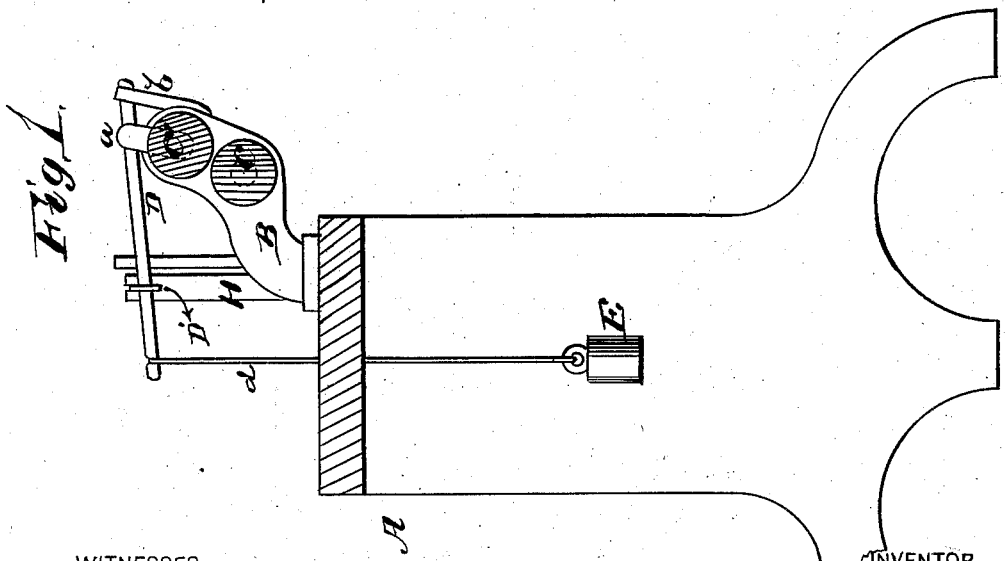
E. A. MONGEON.

STOP-MOTIONS FOR RAILWAY-HEADS IN SPINNING-MACHINERY.

No. 194,710. Patented Aug. 28, 1877.





WITNESSES

C. H. Bates

George E. Upham

INVENTOR.

Edward A. Mongeon.

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

EDWARD A. MONGEON, OF WOONSOCKET, RHODE ISLAND.

IMPROVEMENT IN STOP-MOTIONS FOR RAILWAY-HEADS IN SPINNING MACHINERY.

Specification forming part of Letters Patent No. **194,710**, dated August 28, 1877; application filed April 28, 1877.

To all whom it may concern:

Be it known that I, EDWARD A. MONGEON, of Woonsocket, in the county of Providence and State of Rhode Island, have invented a new and valuable Improvement in Stop-Motions for Railway-Heads; 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 part sectional side elevation of my stop-motions for railway-heads. Fig. 2 is a front elevation of the same, and Figs. 3 and 4 are perspective views.

The nature of my invention consists in the construction and arrangement of a stop-motion for railway-heads, as will be hereinafter more fully set forth.

In the annexed drawings, which fully illustrate my invention, A represents a part of the frame of the machine. On this frame are two arms, B B, in which are journaled two rolls, C C′, for the sliver to pass between. The lower roller C has its bearings stationary in the arms B B, while the journals of the upper roller C′ are placed in slots in said arms, and said roller is capable of yielding upward. On top of the journals for said upper roller C′ are placed two blocks, *a a*, which are held down on the journals by means of levers D D.

One end of each lever D is pivoted to a post, *b*, on the arm B, and lies in a slot in the upper end of the block *a*, and to the other end of the lever is attached a rod or wire, *d*, which passes downward through the frame, and has a weight, E, attached to its lower end. The rollers C C′ are connected by gears *m m*.

One of the levers D passes through an eye in one end of a lever, D^1, which is pivoted to a standard, H, attached to the frame A, and the other end of said lever D^1 is, by a rod or bar, D^2, connected to still another lever, D^3, pivoted at its inner end, as shown. The parts D^1, D^2, and D^3 form, as it were, one jointed lever. On the side of the part D^3 of this jointed lever is formed or attached a lug or projection, *h*, of oval form.

G represents the belt-shifting lever, which has on its side a triangular lug or projection, *i*.

When the right-sized sliver is passing through the rolls C C′ the broad part of the triangular or V-shaped lug *i* is in contact with the acute angle of the oval pin or lug *h*, which holds the belt in position, and the machine runs; but if the sliver breaks the top roll C′ drops down, and the points *h i* pass each other, and the lever G is thrown over by the action of a spring, S, on it to shift the belt, and thus stop the machine. The same action is effected if the top roll raises by the sliver being too thick.

One of the levers D is arranged to move but very little, allowing the other lever, to which the stop-motion is connected, to do all the work.

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

1. In a railway-head or drawing-machine, the combination of a non-yielding rotating roller, having its bearing stationary, and a yielding rotating roller, with the lever D^3, provided with the oval lug *h*, the belt-shipping lever G, having the triangular projection *i*, and the flat spring S, substantially as described, and for the purpose set forth.

2. The combination, with the roller C and the yielding roller C′, of the weighted levers D, jointed levers D^1 D^2 D^3, oval pin *h*, and the belt-shifting lever G, with V-shaped pin *i*, all constructed substantially as and for the purpose described.

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

EDWARD A. MONGEON.

Witnesses:

CHARLES N. BROWN,

GEORGE A. WILBUR.