

A. M. FYFE.

WARP TENSION REGULATOR.

No. 175,962.

Patented April 11, 1876.

Fig. 1

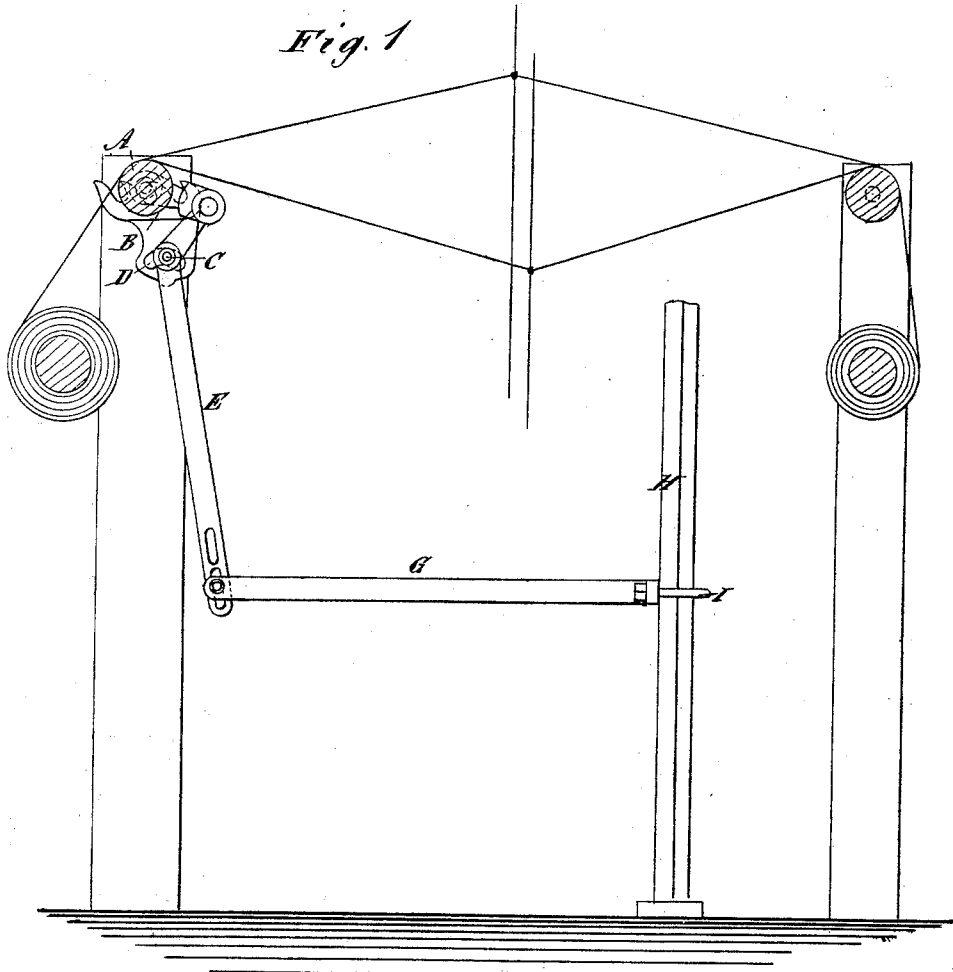
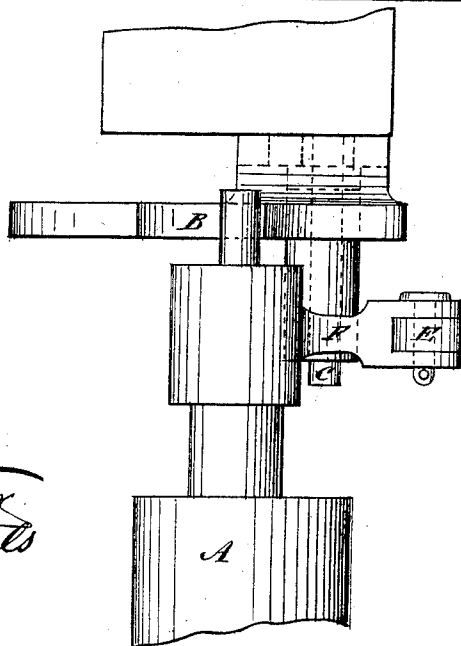


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALEXANDER M. FYFE, OF CORNWALL, CANADA.

IMPROVEMENT IN WARP-TENSION REGULATORS.

Specification forming part of Letters Patent No. **175,962**, dated April 11, 1876; application filed January 7, 1876.

To all whom it may concern:

Be it known that I, ALEXANDER MICHIE FYFE, of Cornwall, in the county of Stormont, Province of Ontario, and Dominion of Canada, have invented a new and Improved Warp-Tension Regulator, of which the following is a specification:

The invention is an improvement in the class of warp-tension regulators in which the roll over which the warp passes from the warp-beam is arranged to be shifted in position, corresponding to the beat of the lathe, by means of levers connected with the latter.

The improvement relates to the construction and arrangement of parts, as hereinafter described and claimed.

Figure 1 is a sectional elevation of some portions of a loom, showing the application of my invention; and Fig. 2 is a plan view, showing the arrangement at one end of the warp-roll.

Similar letters of reference indicate corresponding parts.

A is the warp-roll, and B the notched bearing-plate, as commonly arranged in the loom, the plate being attached to the loom-frame by a bolt, C, passing through the slot D of the bearing-plate, so that the plate may be adjusted to swing the roll toward and from the harness.

On this bolt C we mount the lever E, to the

short arm of which we connect the roll by the rod F, through one end of which the shaft of the roll passes, and which is jointed at its other end to the lever E, and the long arm is connected by rod G with the sword H of the lathe, by a yoke, I, which fastens around the sword, so as to connect without any fitting.

By this arrangement the roll will move toward the harness when the lathe swings back after beating up, and at the time the shed opens, and when the shed closes the roll will move back again as the beat-up takes place, thus relieving the warp of undue strain by the shed, and at the same time making uniform tension.

By fitting the lever on the bolt C the expense of a special pivot is avoided.

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

The combination, with the slotted plates B and warp-roll A, having its bearings therein, of the rod F and bent lever E, having for its fulcrum the bolt C, by which the said plate is secured to the loom-frame, all as shown and described.

ALEXANDER MICHIE FYFE.

Witnesses:

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