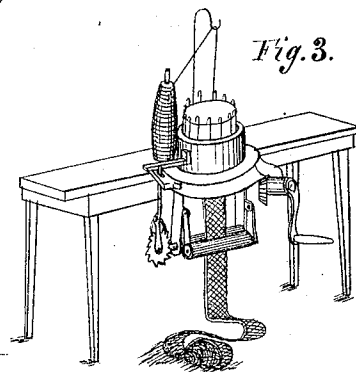
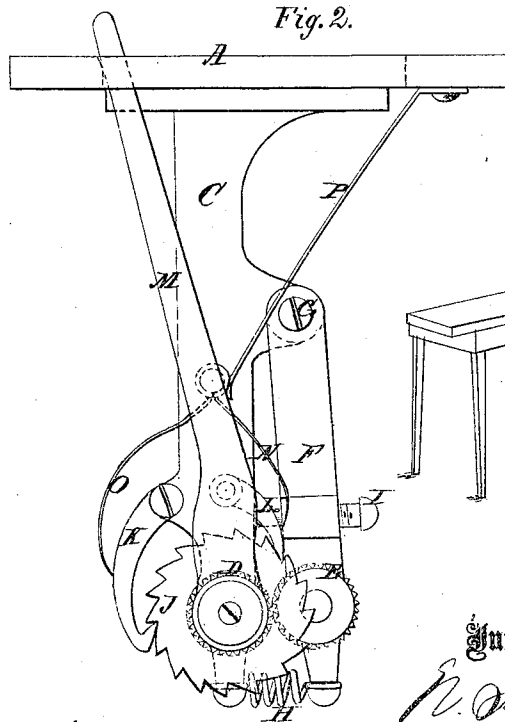
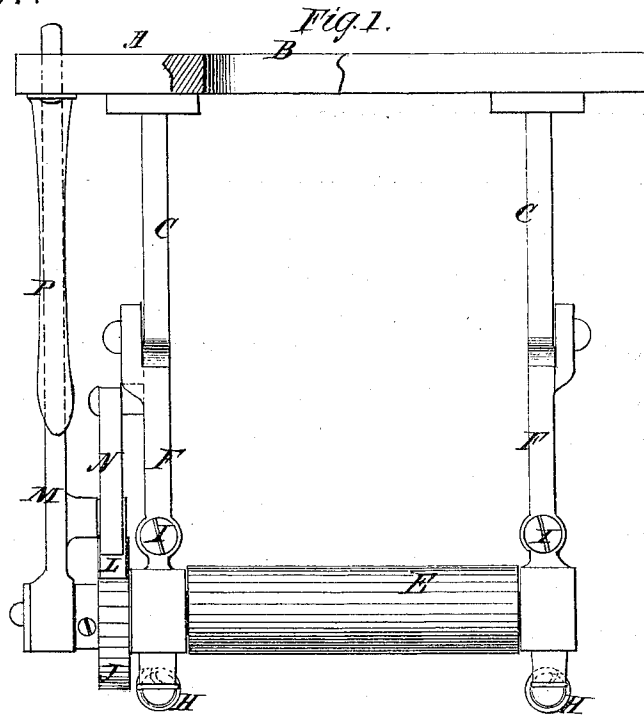


N. H. BALDWIN.

Improvement in Take-Up Devices for Knitting-Machines.

No. 129,387.

Patented July 16, 1872.



Witnesses:
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Francis McAuley.

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UNITED STATES PATENT OFFICE.

NATHAN H. BALDWIN, OF LACONIA, NEW HAMPSHIRE.

IMPROVEMENT IN TAKE-UP DEVICES FOR KNITTING-MACHINES.

Specification forming part of Letters Patent No. 129,387, dated July 16, 1872; antedated July 13, 1872.

Specification describing certain Improvements in Take-Up for Knitting-Machines, invented by NATHAN H. BALDWIN, of Laconia, in the county of Belknap and State of New Hampshire.

My invention relates to an improvement in the arrangement of the take-up rollers of a knitting-machine, and the mechanism for operating the same, as hereinafter described and specifically indicated in the claim.

Figure 1 is a side elevation of my improved take-up apparatus with a part sectional, and Fig. 2 is another side elevation. Fig. 3 represents the take-up mechanism applied to a knitting-machine so as to be operated by an arm projecting from the cylinder.

Similar letters of reference indicate corresponding parts.

A is the platform, of any suitable kind adapted for the support of a circular knitting-machine, and having a large hole, B, through it for the knitted fabric to pass down as it leaves the machine. C represents a pair of brackets attached to the under side of said platform, and hanging down to support the fluted take-up rollers D E, and the apparatus for operating and regulating them. The roller D is mounted in suitable bearings in the brackets C, at the lower end, and the other is mounted in the hangers F, pivoted to brackets C at G. The roller E is pressed against the other by springs, H, that allow it to move toward or from the other, as the thickness of the goods varies, and temper-screws I are provided to prevent it from pressing the goods too hard, said screws being fitted in the hangers F to bear against the brackets C. The roller D is provided with a ratchet-wheel, J, with which there is combined a holding-pawl, K, actuating-pawl L, pawl-lever M, and springs N O, in the usual manner of such contrivances

for imparting an intermittent motion to the take-up rollers. Now, this pawl-lever M extends upward through a slot in the platform, or it may be at the end of it, in such manner that it may be moved forward to turn the rollers in the direction to draw the goods away from the machine by a projection on the cylinder or other part coming in contact with the upper end of the lever once as each row of stitches is added to the goods, and escaping over the top as it descends in the circular line it describes when so acted on, after which it is thrown back, ready for the next operation, by a spring, P. Care is taken to have the pawl-lever and the stud or other projection on the machine, which actuates it, so arranged relatively to each other that the rollers will be moved at each operation so as to draw the fabric about the distance it is increased in length by the addition of one row of stitches. In case the rollers move faster than the increase of the length of fabric, they will slip on it, the temper-screws being adjusted to allow them to do so, and so as to cause a greater or less tension on the goods, as required.

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

The combination of the brackets C C and hangers F with the spring H, rollers D E, the lever M, and the ratchet and pawl mechanism arranged upon the perforated base-plate A, and adapted to be attached to the under side of a knitting-machine, and operated by an arm projecting from the cylinder, all as shown and described.

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