

R. D. LEECH.

Cam-Cylinders for Knitting-Machines.

No. 150,966.

Patented May 19, 1874.

Fig. 1.

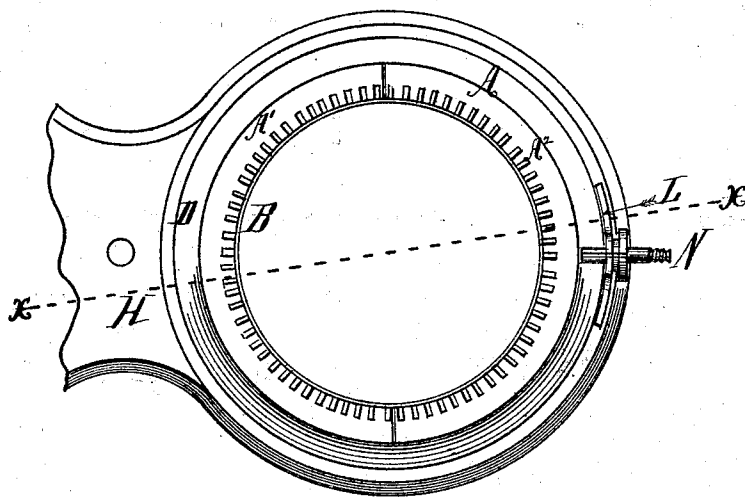


Fig. II

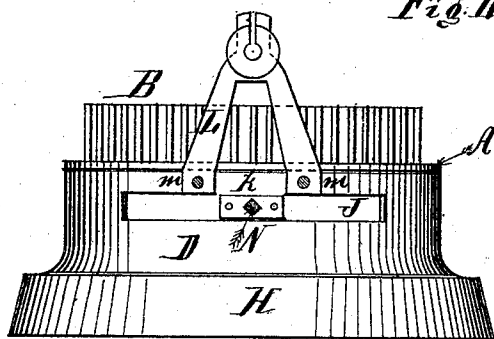
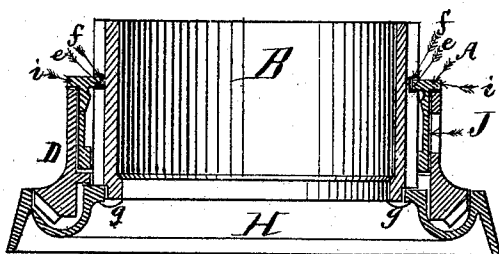


Fig. III.



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IMPROVEMENT IN CAM-CYLINDERS FOR KNITTING-MACHINES.

Specification forming part of Letters Patent No. **150,966**, dated May 19, 1874; application filed April 28, 1874.

To all whom it may concern:

Be it known that I, ROBERT D. LEECH, of New York city, county and State of New York, have invented certain Improvements in Knitting-Machines, of which the following is a specification:

The object of my invention is to provide an improved reversible cam-cylinder for a knitting-machine, and also to hold together the different cylinders in a better and more convenient manner than done heretofore. My invention consists in a cam-cylinder constructed in sections, having a flange at the top, which fits into an annular groove in the needle-cylinder, and placed inside of an encircling cylinder, through which motion is given to the cam-cylinder. The needle-cylinder, being encircled by the sections of the cam-cylinder, is held to the bed-plate of the machine by means of screws from underneath. The encircling cylinder holds the sections of the cam-cylinder against the needle-cylinder, and is held in place by aid of the outer flange of the sectional cam-cylinder. A slot is cut in the side and near to the top of the encircling cylinder. An opening is left at the top and in the center of this slot. To opposite sides of this opening are fastened arms of the yarn-carrier. To the outside of the cam-cylinder is fastened a movable stud for adjusting the stitch-cam, said stud operating back and forth in the slot of the encircling cylinder, thus regulating the relative position of the yarn-carrier and the needle-operating cams.

In order to more fully describe my invention, I refer to the accompanying drawing forming a part of this specification.

Figure I is a plan view of a machine embodying my invention. Fig. II is a side view of the same. Fig. III is a vertical sectional view on line *x x*, Fig. I.

A is the cam-cylinder, constructed in two parts, A¹ and A². B is the needle-cylinder. D is the encircling cylinder. *e* is the inside flange of the cam-cylinder, fitting into the annular groove *f* in the needle-cylinder. *g g* are screws holding the cam-cylinder to the bed-plate H. *i* is the outer flange of the sectional cam-cylinder. J is the slot cut in the side of the encircling cylinder. *k* is the opening in the center and top of this slot. L is the yarn-carrier, fastened to the sides of the opening *k* at *m m*. N is the movable stud fastened to the cam-cylinder, and fitting into the slot J.

Having thus described my invention, I claim—

A cam-cylinder in sections, provided with flanges *e* and *i*, in combination with the needle-cylinder B, the encircling cylinder D, provided with the slot J and opening *k*, the bed-plate H, and screws *g*, substantially as and for the purpose hereinbefore set forth.

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