(No Model.)

J. C. EGLY.

CIRCULAR KNITTING MACHINE.

No. 420,190. Patented Jan. 28, 1890.

fig. 1.

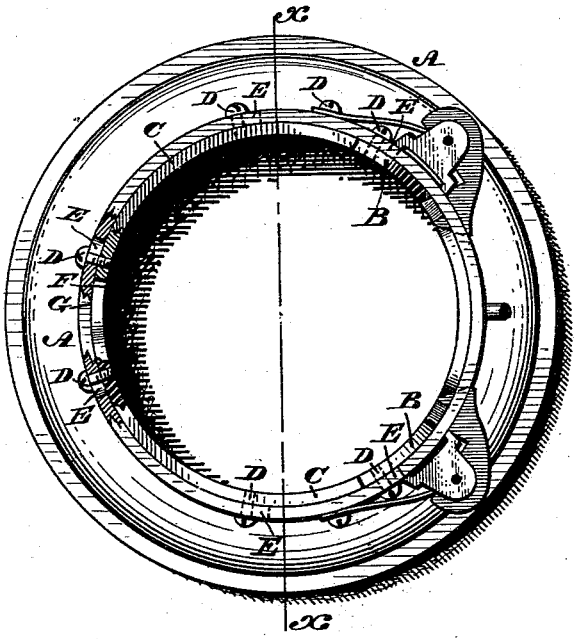


fig. 2.

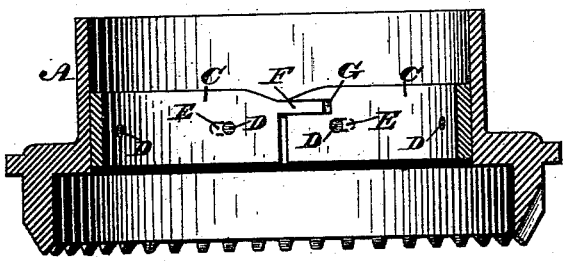
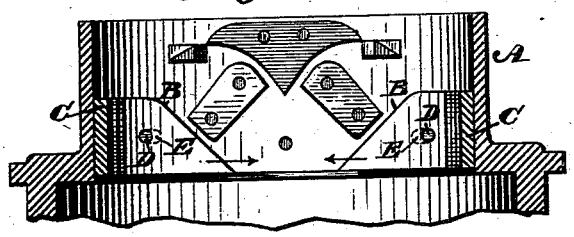


fig. 3.



WITNESSES:

L. Dauville,

P. F. Dagle.

fig. 4.

INVENTOR:

John C. Egly

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UNITED STATES PATENT OFFICE.

JOHN C. EGLY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THOMAS A. PEARCE AND ROSE E. EGLY, OF SAME PLACE.

CIRCULAR-KNITTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 420,190, dated January 28, 1890.

Application filed June 10, 1889. Serial No. 313,742. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. EGLY, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Circular-Knitting Machines, which improvement is fully set forth in the following specification and the accompanying drawings.

My invention relates to improvements in knitting-machines; and it consists in so constructing the cams thereof that as they wear off they may be adjusted, and thus preserve their proper distances with relation to the adjacent parts of the machine.

Figure 1 represents a top or plan view, partly broken away, of the portion of a knitting-machine embodying my invention. Figs. 2 and 3 represent vertical sections in opposite directions on line *x x*, Fig. 1. Fig. 4 represents a view of a modification.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the cam-cylinder of a knitting-machine, which, excepting the features of my invention applied thereto, is constructed and adapted to operate in a well-known manner.

B designates the usual cams, which are at the ends of the band or ring C.

In knitting-machines as heretofore constructed the band or ring which has the cams at the ends thereof is made of a single piece of metal secured to the inner face of the cylinder A, whereby when said cams wear off the band is removed as comparatively worthless. My invention is designed to remedy this, and to this end I form the band in sections or segments, which are adjustably connected with the cylinder by means of screws D, which are secured to the sections and pass through horizontal slots E in the cylinder A. By this provision the cams B may be set nearer to each other when their faces wear off, the screws D being previously loosened and duly tightened when the adjustment is accomplished. In order to preserve the continuity of the upper edge of the band C at the separated ends of the sections of the same, and thus avoid a space into which the needles may drop, there is formed on the end of one section a horizontally-extending tongue F, which enters a groove or slot G in the end of the other section, as will be most clearly seen in Fig. 2, it being noticed that the upper edge of the tongue is continuous of the upper edge of the section of the band with which it is connected, and the end of the upper edge of the other section joins the upper edge of the tongue, so that as the sections are moved to adjust the cams the tongue plays in the groove or slot G, and thus there is practically no break in the upper edge of the band, and the space between the section is covered or guarded by the tongue, the latter spanning said space, as is evident.

In Fig. 4 the portion of the band containing the cam is shown as adjustably connected with the adjacent portion of the band, said portions being also provided with a tongue and groove, so that as the cam portion is adjusted the existing space between the same and the band is covered and guarded similar to that shown in Fig. 2.

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

1. A cylinder, in combination with a band having a cam on the end thereof adjustably connected with the said cylinder, whereby said cam may be adjusted, substantially as described.

2. A cylinder, in combination with a cam-carrying band formed in sections which are adjustably connected with the said cylinder, whereby the cams may be adjusted, substantially as described.

3. A cylinder, in combination with a cam-carrying band formed in sections which are adjustably connected with the said cylinder, and provided with means for closing the space between said sections, and preserve the continuity of the edge of the band, substantially as described.

4. A cylinder, in combination with a cam-carrying band formed in sections, one of which has a groove or slot and the other a tongue, the latter being continuous of the edges of the sections, substantially as and for the purpose set forth.

JOHN C. EGLY.

Witnesses:
JOHN A. WIEDERSHEIM,
WM. C. WIEDERSHEIM.