

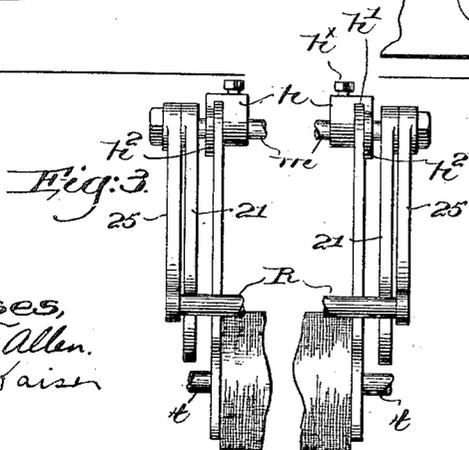
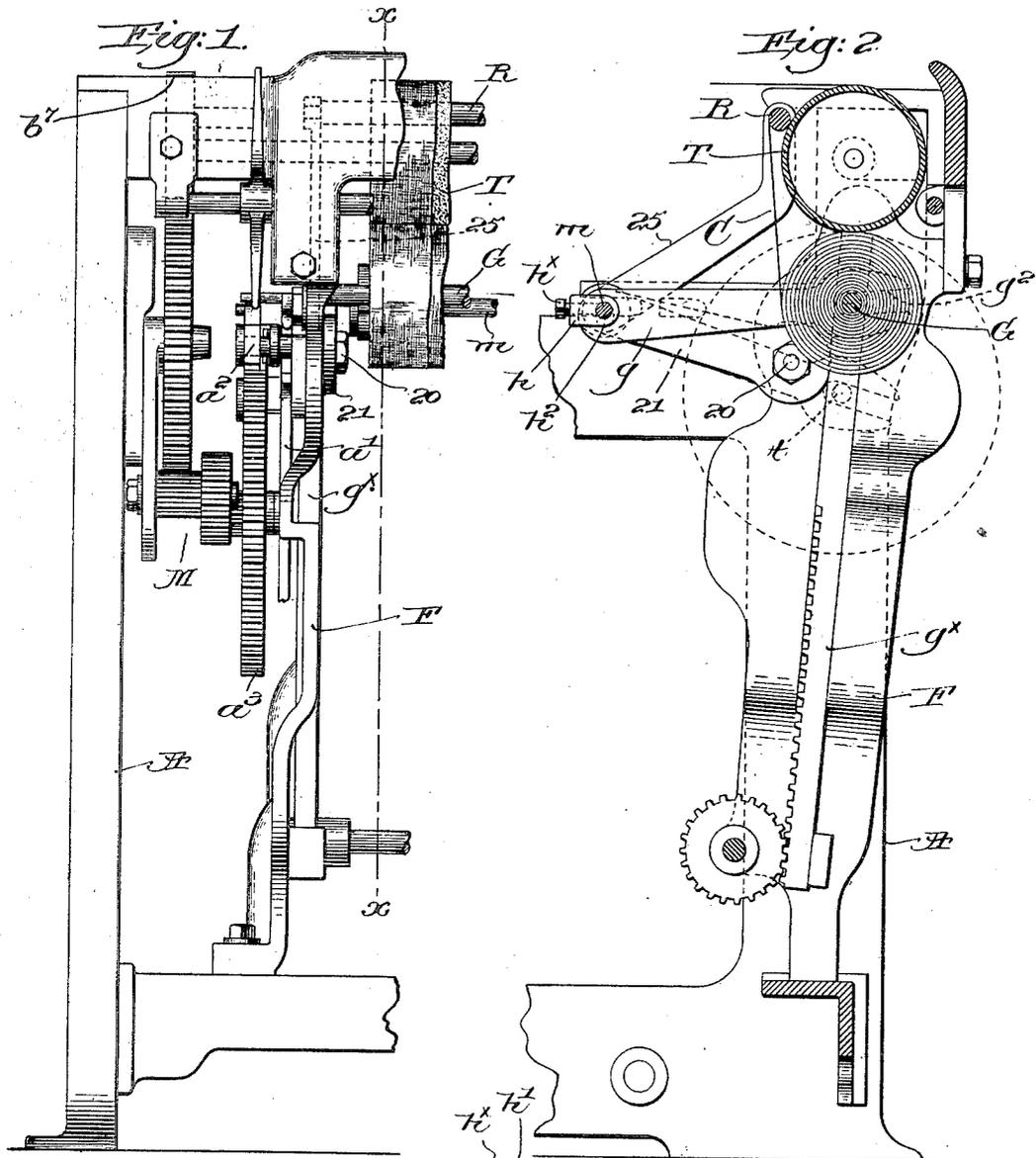
No. 668,024.

Patented Feb. 12, 1901.

E. S. STIMPSON.
ATTACHMENT FOR LOOMS.

(Application filed Sept. 27, 1900.)

(No Model.)



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UNITED STATES PATENT OFFICE.

EDWARD S. STIMPSON, OF HOPEDALE, MASSACHUSETTS, ASSIGNOR TO THE DRAPER COMPANY, OF SAME PLACE AND PORTLAND, MAINE.

ATTACHMENT FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 668,024, dated February 12, 1901.

Application filed September 27, 1900. Serial No. 31,230. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. STIMPSON, a citizen of the United States, residing at Hopedale, county of Worcester, State of Massachusetts, have invented an Improvement in Attachments for Looms, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

My present invention relates to looms; and it has for its object the production of simple and effective means for guiding the edges of the cloth as it is wound upon the cloth-roll to thereby prevent side motion of the cloth on the roll and insure a straight-wound firm roll of cloth with flat ends.

Figure 1, in front elevation and partly broken out, represents a portion of a loom with one embodiment of my invention applied thereto. Fig. 2 is a vertical section thereof on the line xx . Fig. 3 is a top or plan view, centrally broken out, of the cloth-roll, cloth-guides, and the support for the latter; and Fig. 4 is a side elevation of one of the guide-arms, detached, of the attachment.

Referring to Fig. 1, the side frame A, the stands F, forming guides for the rack-bars g^x , in which the journals t of the cloth-roll are mounted, the roughened take-up roll T, having an attached gear b^1 , driven by a suitable train of gearing M, between it and the ratchet-wheel a^3 , the pawl a^2 , and pawl-carrier a^1 are and may be substantially as in United States Patent No. 610,636, dated September 13, 1898.

The stands F have rigidly secured thereto, as by bolts 20, bracket-arms 21, extended toward the back of the loom and at their rear ends serving to support a cross-bar m .

Arms 25, upturned at their forward ends, provide bearings for a supplementary roll R, over which the cloth C passes after being led about the greater portion of the roughened roll T, the arms 25 being fulcrumed at their lower ends on the brackets 21, as clearly shown in Figs. 2 and 3.

As the cloth is wound upon the cloth-roll G it will at times move sidewise, and so be wound irregularly, and the ends instead of being firm and flat will present a series of ridges, greatly impairing the looks of the

cloth. I have herein provided means to prevent crooked winding of the cloth, so that the roll of cloth when taken from the loom will be straight-wound and with firm flat ends. To effect this desirable result, I have herein shown two arms or cloth-guides g , each provided at or near its inner end with a preferably transversely elongated hole g^1 , (see Fig. 4,) through which the rod m is extended, the other and outer end of the arm being provided with a recess or notch g^2 to engage one of the journals t of the cloth-roll, the bifurcated form for the outer end of the arm, as shown herein, being very convenient and readily operated. These arms are mounted one at each end of the roll of cloth, as shown in Fig. 3, and said arms or guides are loose upon the cross rod or bar m .

In order to hold the guides in lateral adjustment, preventing their separation, while at the same time permitting free movement about their fulera, I have provided adjustable positioning devices, consisting each of a collar h , (best shown in Fig. 3,) having a notch h^1 formed therein between the body portion of the collar and an ear h^2 , the inner end of the cloth-guide slipping easily into the notch, after which the bar or rod m is passed through the collar and guide. A suitable set-screw h^x secures the collar rigidly in position on the rod m , and manifestly lateral movement of the cloth-guide will be prevented, while its radial movement will be uninterrupted, and the guides can rock on their fulcrum m to conform to the movement of the cloth-roll as the cloth thereupon increases in diameter.

The cloth-guides may be easily and quickly adjusted toward or from each other and brought with great nicety into the exact position desired, so that the cloth as it is wound upon the roll G can have no movement in the direction of the length of the roll.

As it is usual to provide take-up mechanism with some let-back device to operate when the loom is stopped, for instance, the retrograde rotation of the cloth-roll at such time might cause its journals to bind in the cloth-guides, and so exert undue strain upon the cloth, and in order to prevent such binding I prefer to slightly elongate the holes g^1 for the fulcrum-bar transversely to the length of

the bar, so that should such binding occur the inner ends of the guide may lift slightly, thus allowing sufficient movement of the cloth-roll for the purpose of letting back.

5 My invention is not restricted to the precise construction and arrangement of parts herein shown, for the same may be modified or rearranged without departing from the spirit and scope of my invention.

10 Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. An attachment for looms, comprising a pair of guides slotted at their outer ends to receive the journals of the cloth-roll, a fulcrum-bar on which the guides are pivoted, said guides having transversely-elongated openings therefor, and means to maintain the guides in adjusted position laterally.

20 2. An attachment for looms, comprising a pair of cloth-guides forked at their outer ends to engage the journals of the cloth-roll, and a supporting-rod upon which the guides are

fulcrumed, the latter having transversely-elongated openings to receive the rod, where- 25 by binding of said guides on the rod is prevented, when the cloth is let back.

3. An attachment for looms, comprising a cross-rod fixed to the loom-frame, a pair of guides loosely fulcrumed thereon and recessed at their outer ends to engage the journals of the cloth-roll and act as end guides for the cloth, and a positioning-collar for each guide, adjustably secured to the cross-rod, whereby the distance between the guides may 35 be adjusted, each collar having a notch intersecting the cross-rod and into which the end of the guide loosely enters.

In testimony whereof I have signed my name to this specification in the presence of 40 two subscribing witnesses.

EDWARD S. STIMPSON.

Witnesses:

GEORGE OTIS DRAPER,
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