

(No Model.)

L. C. HOLLINGWORTH.
GUIDE FOR TENTERING MACHINES.

No. 459,203.

Patented Sept. 8, 1891.

Fig. 1.

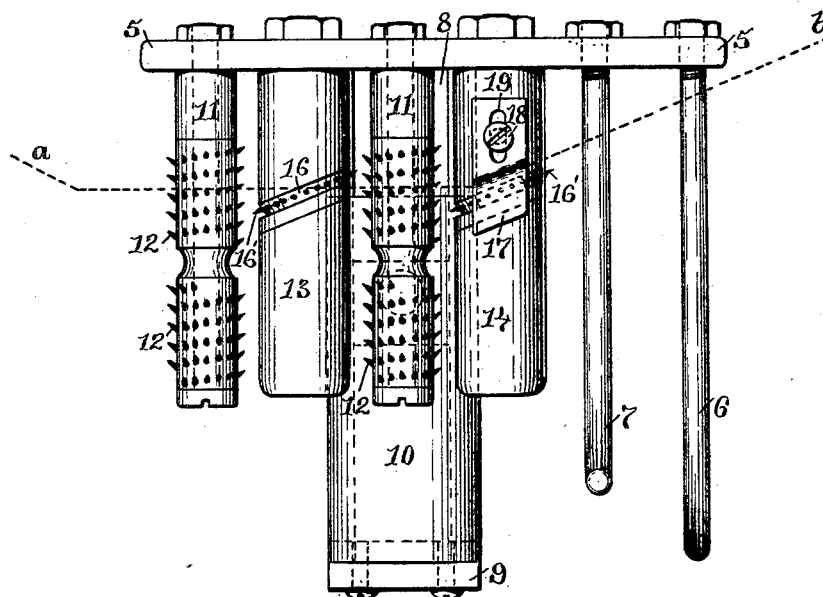


Fig. 2.

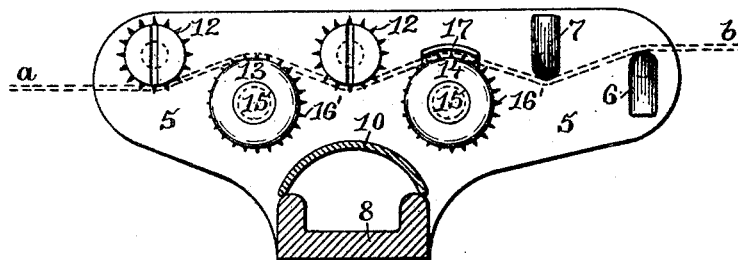


Fig. 3.

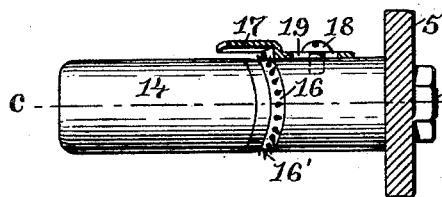
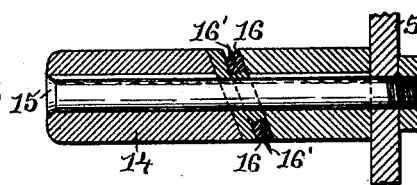


Fig. 4.



WITNESSES:

M. F. Bligh.
Chas. H. Lutter Jr.

INVENTOR:

Leonard C. Hollingworth
Joseph A. Miller & Co.
Attys

UNITED STATES PATENT OFFICE.

LEONARD C. HOLLINGWORTH, OF PROVIDENCE, RHODE ISLAND.

GUIDE FOR TENTERING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 459,203, dated September 8, 1891.

Application filed May 23, 1891. Serial No. 393,899. (No model.)

To all whom it may concern:

Be it known that I, LEONARD C. HOLLINGWORTH, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Guides for Tentering-Machines; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in guides for tentering-machines.

The object of this invention is to produce a new and improved guide for tentering-machines which will deliver the cloth to tenter-hooks in a more perfect manner than has heretofore been accomplished.

The invention consists in the peculiar combination of retaining-rolls with guides of novel construction, as will be more fully described hereinafter, and pointed out in the claims.

Figure 1 is a top view of one-half of the improved guiding mechanism. Fig. 2 is an end view of the same, partly in section. Fig. 3 is a view of the spur guide-wheel and cloth-support, the adjustable selvage-guide being shown in section. Fig. 4 is a longitudinal sectional view of the same at line *c d*, Fig. 3.

Similar numbers of reference designate corresponding parts throughout, the mechanism described being one-half of the complete machine.

In the drawings, 5 indicates the side frame, to which are secured the guide-rod 6, having its outer end bent downward, and the guide-rod 7, having its outer end bent upward to permit the cloth, which is indicated by dotted lines *a b*, to be slipped between these rods. The base 8 of the side frame 5 has the bracket 9, to which is secured the saddle-iron 10. The retaining-rolls 11 11 are journaled on shafts secured in the side frame 5, and are provided with spirally-arranged spurs 12 12, the points of which extend toward the side frame. The cylindrical cloth-supports 13 and 14 are secured by shafts 15 15 to the side frame 5, and are made in two portions, being fastened on the shafts 15 15 so as to leave a diagonal space between, in which the diagonal spur guide-wheels 16 16 move. These guide-wheels

bear on the shafts 15 15, and are provided with the circumferential spurs 16'. The support 14 is also provided with an adjustable selvage-guide 17, adapted to be adjusted by the screw 18 and slot 19.

In order to avoid the faults at present common to tentered goods, it is necessary that the cloth be delivered to the tenter-hooks in a more accurate manner than heretofore. If the cloth is not presented in a proper position for these hooks to engage with the selvage thereof, the empty hooks will be carried along by the chain, and as the cloth is stretched outward by the tentering-machine that portion opposite the unengaged hooks will be drawn away from the sides of the machine and occasion a serious fault, which it is impossible to remedy, and such portion of the cloth will have to be cut away, becoming a total loss.

My improved guiding mechanism is designed to obviate these faults by delivering the cloth in a most accurate manner to the tentering-hooks. When the edge of the cloth *a b* enters the guiding mechanism, it engages with the retaining-rolls 11, under which it passes, the diagonally-arranged spurs 12 engaging with it and delivering it to the diagonal spur guide-wheels 16, the spurs 16' of which will tend to guide it outward, this tendency being adjusted by selvage-guide 17, under which the cloth passes, and after passing which it will be directed by the diagonally-moving spur guide-wheel 16, carried by the support 14, in a direction corresponding to the travel of the tentering chain and hooks, which will then engage with the selvage of the cloth and carry it through the tentering-machine.

It is evident that my improved guide can be used for drying and other machines in which it is necessary to have an edge-guide for properly conducting the material into or out of the machine.

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

1. In a tentering-machine, the combination, with shafts secured in the end frame and retaining-rolls 11 11, having diagonally-arranged spurs rotatable thereon, of the shafts 15 15, secured in the end frame, the supports 13 and

14, fastened thereon, and the spur-wheels 16, diagonally rotatable on said shafts, as described.

2. In a tentering-machine, the combination,
5 with shafts secured in the end frames and carrying the rotatable spur-wheels 11 11, and other shafts also secured in the end frames and carrying the supports 13 and 14, having diagonal grooves and spur-wheel guides ro-
10 tatable in said grooves, of the adjustable sel-

vage-guide 17, secured to the support 14 and partially overlapping the spur-wheel carried on that support, as described.

In witness whereof I have hereunto set my hand.

LEONARD C. HOLLINGWORTH.

Witnesses:

M. F. BLIGH,

J. A. MILLER, Jr.