

(No Model.)

E. STEVENS.
WEB SELVAGE GUIDE.

No. 568,884.

Patented Oct. 6, 1896.

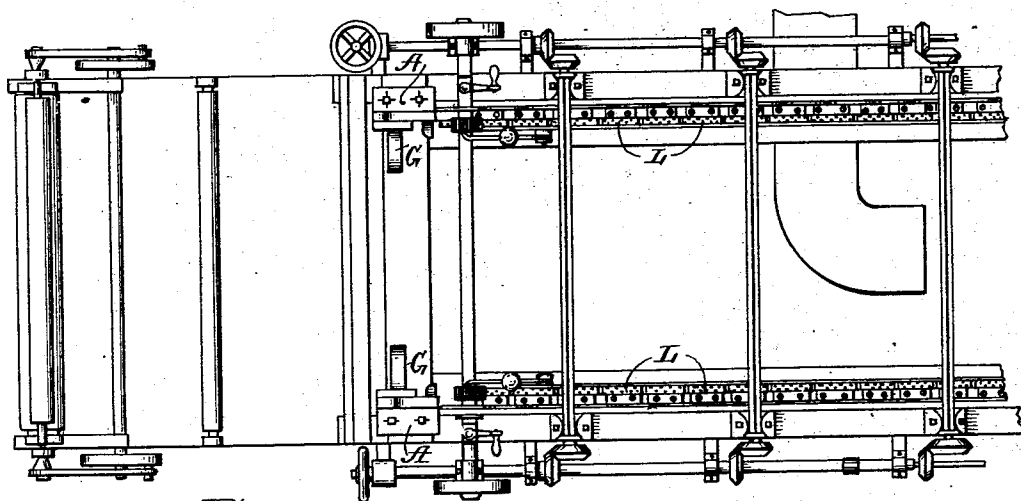


Fig. 1.

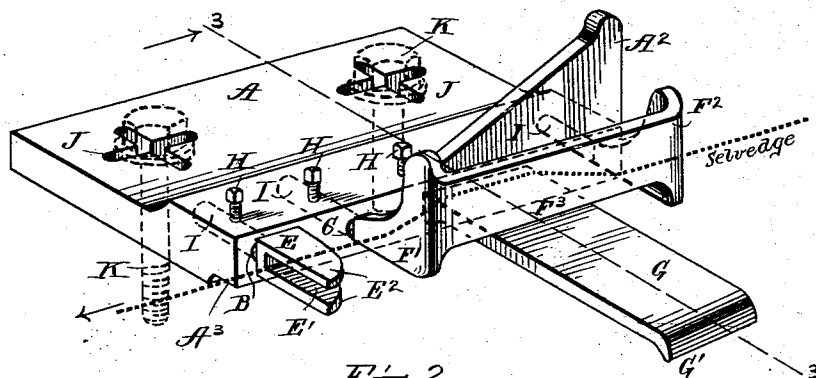


Fig. 2.

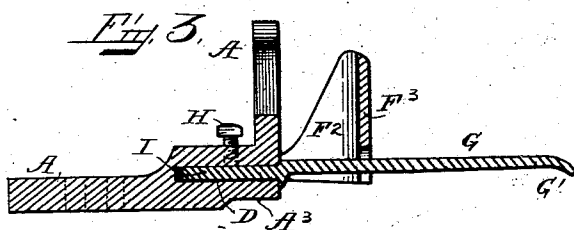


Fig. 3.

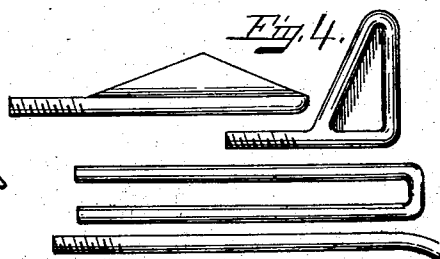


Fig. 4.

Witnesses
Geo. H. Leavitt
H. E. Remick Jr.

Inventor,
Edgar Stevens.
per H. E. Remick
his atty.

UNITED STATES PATENT OFFICE.

EDGAR STEVENS, OF LAWRENCE, MASSACHUSETTS.

WEB-SELVAGE GUIDE.

SPECIFICATION forming part of Letters Patent No. 568,884, dated October 6, 1896.

Application filed April 3, 1895. Serial No. 544,329. (No model.)

To all whom it may concern:

Be it known that I, EDGAR STEVENS, a citizen of the United States, and a resident of Lawrence, in the county of Essex and State of Massachusetts, have invented a certain new and useful Improvement in Web-Selvage Guides, of which the following, taken in connection with the accompanying drawings, is a specification.

The object of my invention is to provide a durable, efficient, and inexpensive apparatus, which I term a "web-selvage guide," applicable to tentering and drying machines for the sole purpose of directing and guiding the edges or selvages of the fabric in direct lines upon the chain hooks or points forming a part of the mechanism of said tentering-machines as the fabric enters therein.

My invention to this end consists of right and left bed-plates movably attached to the corresponding sides of tentering or drying machines at the receiving end thereof. The adjacent sides of these plates are thickened to receive a series of interchangeable projecting guides, which, in combination with the vertical guard rising from the bed-plate, serve to confine and direct the edges of the web or fabric smoothly into the tentering-machine until they are impaled on said "points."

A specific description of the several features of my invention will be ascertained by referring to the drawings annexed, wherein—

Figure 1 indicates in plan the receiving end of a tentering-machine to exhibit the location and method of attaching my improved invention. Fig. 2 is a perspective of the right-hand apparatus detached, the direction and position of the fabric-selvage being shown in dotted line. Fig. 3 designates a transverse vertical section through dashed line 3 3 of Fig. 2. Fig. 4 is an aggroupment of guide-pieces, which are modified constructions of the guides organized in the apparatus.

Similar letters designate like features throughout the several views, referring to which—

A designates the bed-plate. Its taking edge A', adjacent to the center of the tentering-machine, is bored horizontally, as at B C D, to receive in relative order the attachments having relations to the fabric—viz., the bifurcated guide-piece E, within which

the edge of the fabric is confined as it leaves the apparatus, the web-connected guide-bars F' F², under which the fabric or web K is drawn, the supporting guide-piece G, over which the web edge is conducted and which projects sufficiently to insure the safe carriage and prevent the sag of the fabric, weighted by moisture, from withdrawing or receding from juxtaposition with the edge A' of the bed-plate A. The outward edge of this guide G is downturned, as at G', to facilitate the drawing of the edges of the web from the center outwardly as it moves toward the chain-points L, while the function of the web F³ is to prevent any tendency of the fullness in the fabric to ride up and crowd the selvages too closely against the taking edges A'. Said guide-pieces are mounted on the bed-plate and secured in a vertical position by their respective set-screws H, which have their bearings against the several shanks I. The bed-plate A is further provided integrally at its forward end with the vertical guard A³, rising above the plane of the working edge A', and its purpose is to prevent overriding of the fabric edges as they are drawn laterally against the taking edges A' of said plates and also to prevent the projecting side loops of thread resulting from the sewing of the various pieces of the web together to unite them catching over any obstacle, as sometimes occurs in the absence of such a guard.

The guide-piece E is provided with the slot E', which, receiving the selvage of the fabric, restricts any vertical undulation while directing it upon the chain-points L. The rounded corners E² of one side of this guide are for the purpose of facilitating the passage of the selvage, which has obstructions that sharp corners would not avoid, in the nature of what are known technically as "match-holes," more frequently cut in the edges of the fabric by the dyers, who from these cut-out portions match the same color to subsequent weavings.

In the under side of the bed-plate A will be observed the recess A³, adjacent to the taking edge A'. This is for the purpose of adjustment vertically closer to the chain-points of the tentering-machine when desirable.

J J designate the four-way apertures in the bed-plate for the reception of the screw-

bolts K K, through which my apparatus is adjustably secured to the bed of the machine.

Having described the operation and construction of my improved invention, I desire to secure by Letters Patent, and I claim—

1. In a tentering-machine, a base-plate having a thickened taking edge provided in the under side with a longitudinal depression A³, and also provided with a series of horizontal
10 recesses, in combination with tentering-chain pins L, a series of guide-pieces received and supported in said recesses and coacting to maintain the position of the fabric as it is drawn through the machine, the vertical triangular-shaped guard A² forming an integral
15 part of each taking edge adapted to restrain overriding through "fullness" of the fabric edges as they are laterally drawn against said edge, the four-way apertures J for proper adjustment to said tentering-machine, and the
20 means substantially as illustrated for attaching said bed-plate thereto, all for the purpose and in the manner specified.

2. In a tentering-machine the combination
25 with bed-plate of the double guide-bar having a connecting-web adapted to restrain the fullness of the cloth from encroachment and overriding of the selvages, and provided with supporting-shanks whereby it may be secured
30 to the bed-plate, the bifurcated guide-piece, each arm of which is provided with rounded corners in the direction from which the fabric enters adapted to prevent a vertical undulatory action of the selvage while being directed upon the chain-pins of the tentering-machine, and also provided with a shank for
35 its attachment to the bed-plate substantially as specified.

3. The bed-plate A, provided with a vertical guide A², the double guide-bar, the bi-

furcated guide-piece E and the means for sustaining said double, and bifurcated guides to said bed, in combination therewith the guide-piece G and the double guide-bar having the coacting web F³ substantially as and for the
45 purpose set forth.

4. The combination of the bed-plate and guides, with the additional supporting guide-piece G downturned at G' on its outward edge, which extends far enough to prevent the sag-
50 ging of the wet fabric from withdrawing it from juxtaposition with the edge of said bed-plate, and the raised web F³ serving to prevent the fullness of the fabric from riding up and crowding the selvages closely against the
55 said edge substantially as set forth.

5. The bed-plate A having a raised vertical guard A² at its working edge in combination with a double guide-bar provided with
60 a web F which is parallel to said guides and arranged for holding down the fabric, a support over which the fabric passes below the said web and guides substantially as set forth.

6. In combination with a bed-plate, a series of guides removably socketed in the said
65 plate, one of said guides being bifurcated to allow the passage of the fabric through it, another guide being below the fabric for supporting the same as it travels, and other
70 guides of the series being above the said fabric on each side of the said supporting-guide substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 16th day
75 of March, A. D. 1895.

EDGAR STEVENS.

Witnesses:

WM. PARR,

WILLIAM J. NEEL