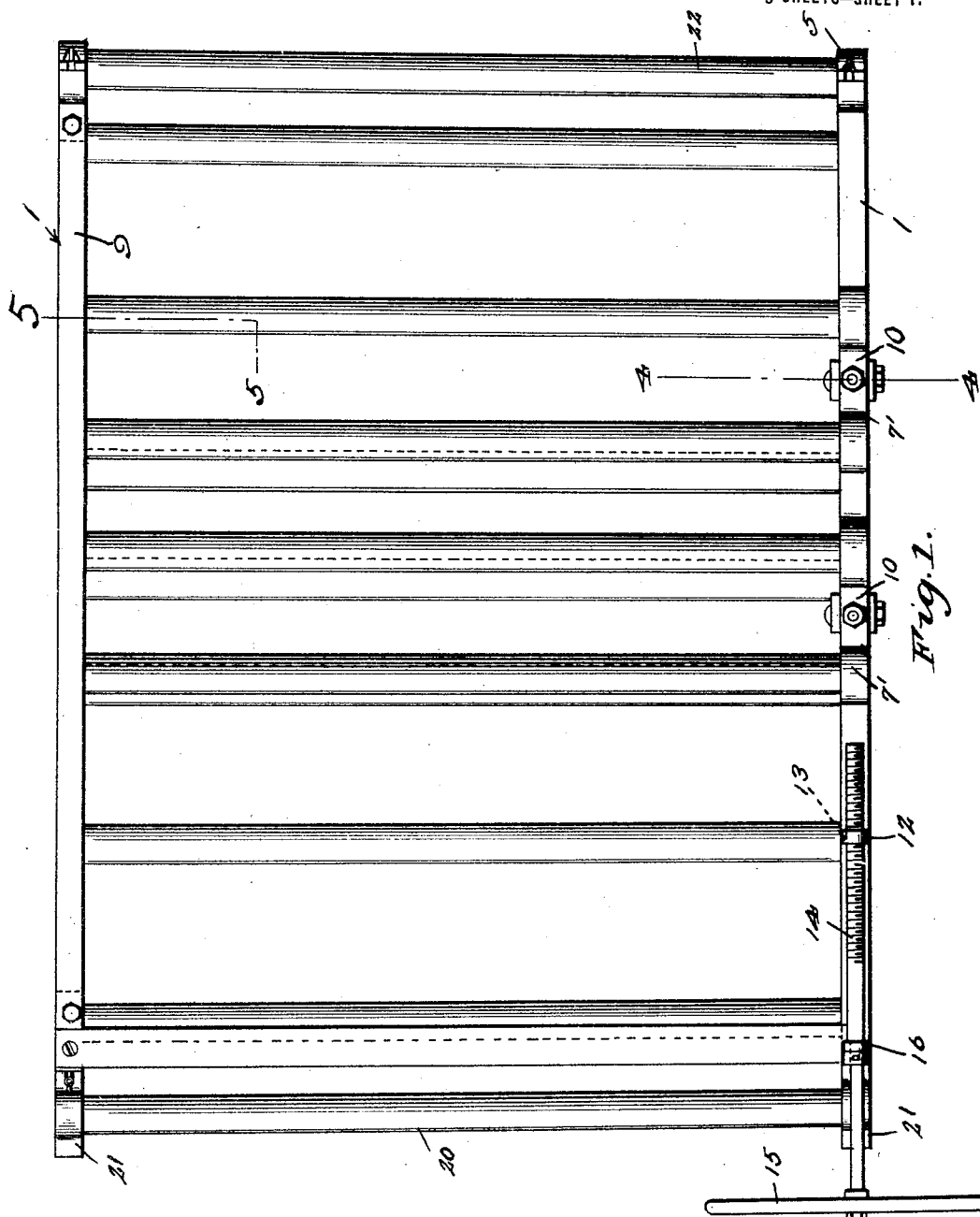


W. GIGLIOTTI.
CLOTH STRAIGHTENING MACHINE.
APPLICATION FILED OCT. 12, 1920.

1,404,110.

Patented Jan. 17, 1922.

3 SHEETS—SHEET 1.



R. A. Thomas
J. B. Anderson
WITNESSES

W. Gigliotti
INVENTOR
BY Victor J. Evans
ATTORNEY

W. GIGLIOTTI.
CLOTH STRAIGHTENING MACHINE.
APPLICATION FILED OCT. 12, 1920.

1,404,110.

Patented Jan. 17, 1922.

3 SHEETS—SHEET 2.

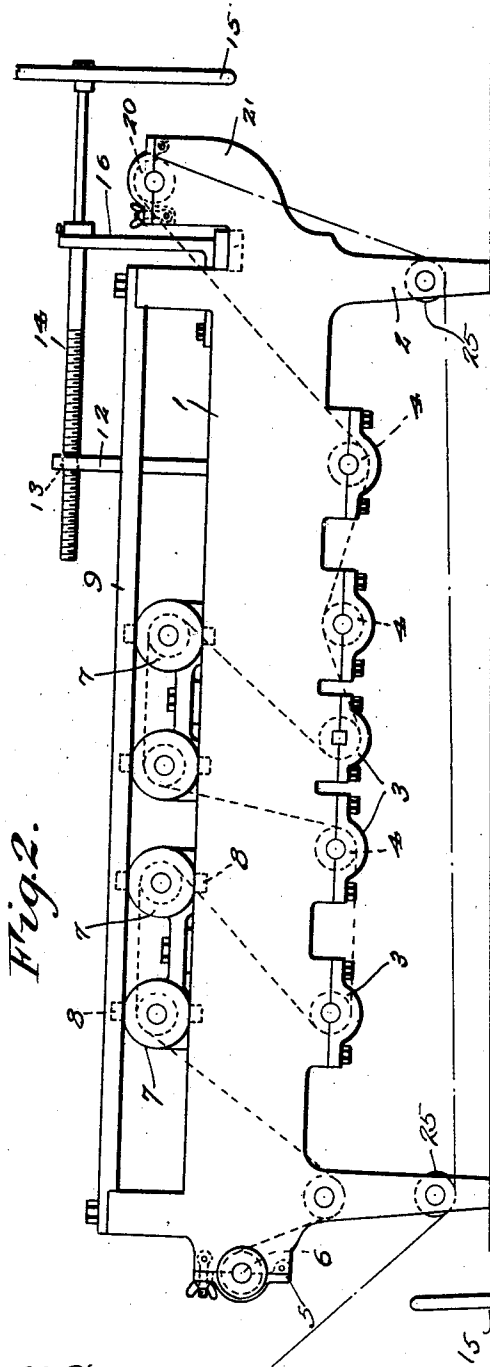


Fig. 2.

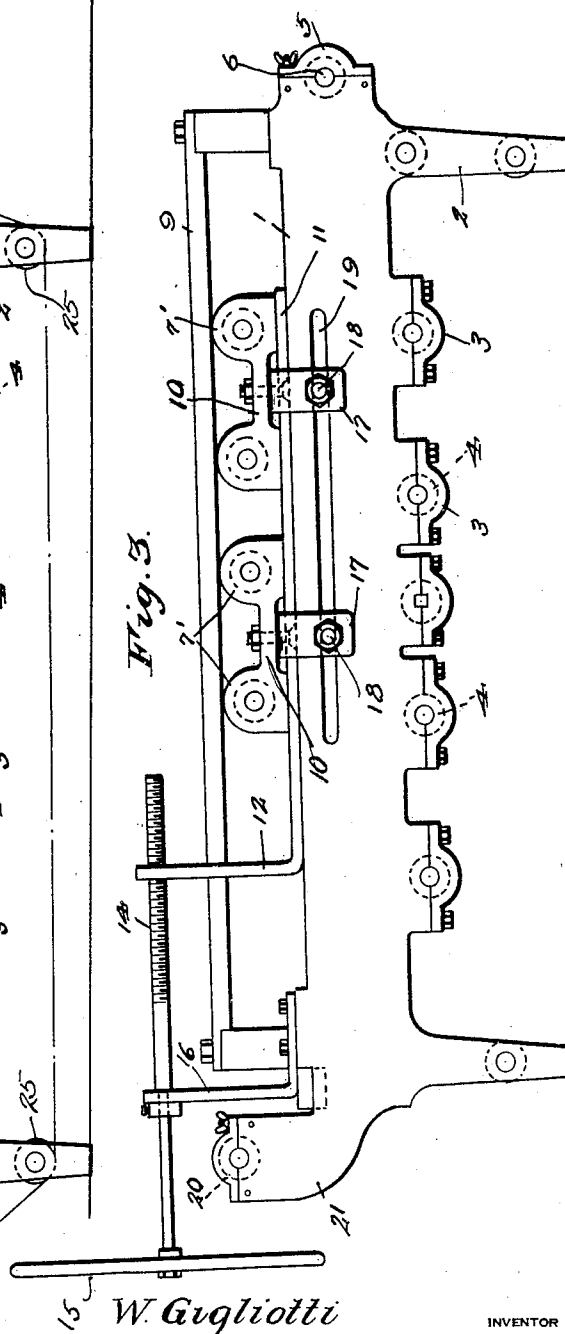


Fig. 3.

R. Q. Thomas
J. B. Middleton
WITNESSES

W. Gigliotti

INVENTOR

BY

Victor J. Evans

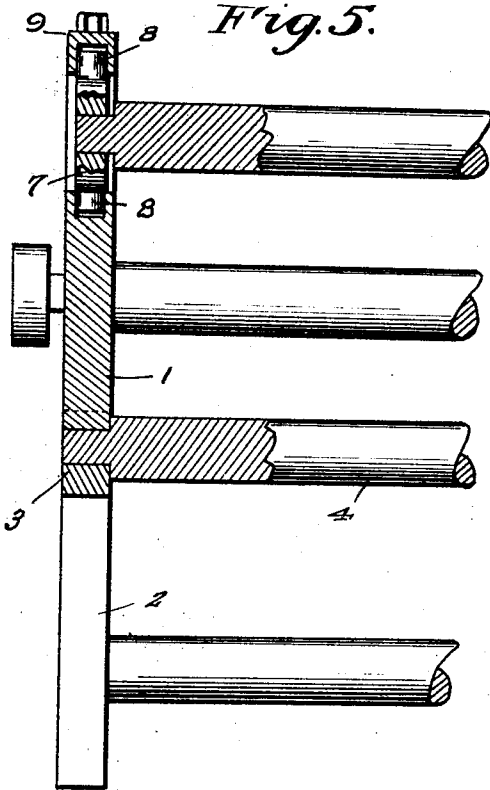
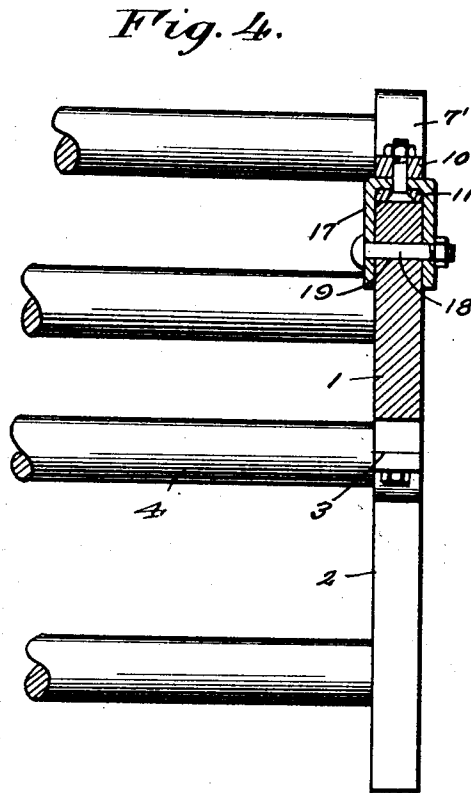
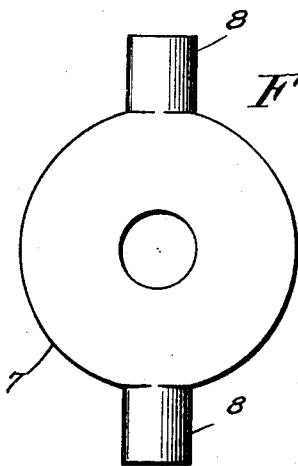
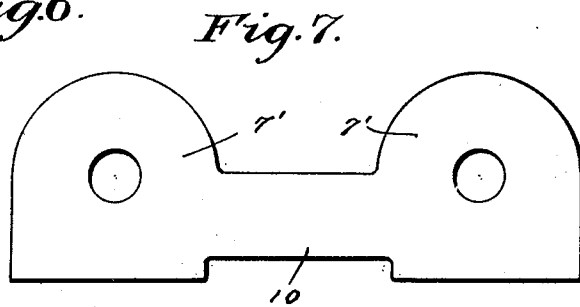
ATTORNEY

W. GIGLIOTTI.
CLOTH STRAIGHTENING MACHINE.
APPLICATION FILED OCT. 12, 1920.

1,404,110.

Patented Jan. 17, 1922.

3 SHEETS—SHEET 3.



R. A. Thomas
L. B. Middleton
WITNESSES

W. Gigliotti
INVENTOR
BY Victor J. Evans
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM GIGLIOTTI, OF NORTH ADAMS, MASSACHUSETTS.

CLOTH-STRAIGHTENING MACHINE.

1,404,110.

Specification of Letters Patent. Patented Jan. 17, 1922.

Application filed October 12, 1920. Serial No. 416,571.

To all whom it may concern:

Be it known that I, WILLIAM GIGLIOTTI, a citizen of the United States, residing at North Adams, in the county of Berkshire and State of Massachusetts, have invented new and useful Improvements in Cloth-Straightening Machines, of which the following is a specification.

This invention relates to a machine for straightening cloth while being wound upon a roller, the principal object of the invention being to provide a plurality of rollers over which the cloth is passed with means for placing some of the rollers in an inclined position to straighten the cloth as it passes over said inclined rollers.

Another object of the invention is to make the bearings for said adjustable rollers movable so as to permit the inclining of said rollers.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a plan view of the device.

Figure 2 is a view of one side thereof.

Figure 3 is a view of the other side.

Figure 4 is a section on line 4—4 of Figure 1.

Figure 5 is a section on line 5—5 of Figure 1.

Figures 6 and 7 are detail views.

In these views 1 indicates the frame of the machine which is supported on the legs 2, the rear legs being longer than the front legs so that the device is higher at the rear than at the front. The side bars of the frame have secured to the lower edges the bearing boxes 3 for supporting the lower rollers 4. A box 5 is secured to one end of each of the side bars of the frame and these bearings support the shafts 6 for the takeup roller 22. Movable boxes 7 are arranged on the upper edge of one of the side bars of the frame, each of these boxes being formed of a ring like member having vertically extending studs 8 thereon which engage holes formed in the edge of the side member and

in the bar 9 which is located above said upper edge and which is secured thereto. It will thus be seen that these boxes may have rocking movement about a vertical axis. Boxes 7' are arranged in pairs at the other side of the apparatus. Each pair of these boxes are connected together by the bars 10. These boxes 7' are secured to a bar 11 which is slidably mounted on the upper edge of the side bar of the frame and has one end extending upwardly, as at 12. This upwardly extending part is provided with a screw threaded opening 13 to receive a screw shaft 14 which is provided with a handle 15 so that it can be rotated by hand. This shaft is rotatably mounted in the upright 16 which is secured to the end of the frame, this shaft being so supported that it can rotate in the upright but cannot move longitudinally therein. The bar 11 is slidably secured to the side bar of the frame by means of the brackets 17 which embrace the said side bar and are secured thereto by the bolts 18 which pass through the longitudinally extending slot 19 in said side bar. Each pair of boxes 7' are movable about a vertical axis by having their cross bar 10 pivotally secured to the top of the bracket 17 by a vertically arranged bolt, as shown in Figures 1 and 3. This arrangement of parts will permit the rollers to assume an inclined position when the bar 11 is moved along the frame.

The roller 20 containing the roll of cloth to be straightened is placed in the supports 21, provided therefor on the frame, and the cloth is then unwound and passed over the rollers to the take-up roller 22 which is provided with a handle or pulley for rotating it.

After the cloth is secured to the take-up roller the same is rotated to wrap the cloth thereon and unwind it from the roller 20 and when a crooked stretch of cloth is encountered the adjustable rollers are moved to straighten this stretch so that the entire strip of cloth will be wound up on the take-up roller with its edges even. The boxes may be provided with ball bearings to eliminate friction in the rotation of the rollers.

In cases where the cloth comes in a box which is too large to be placed at the front of the machine, the box is placed at the rear of the machine and the cloth is passed under the rollers 25 carried by the legs of the device and over the roller 20. The path taken

by this cloth is shown by a dot and dash line in Figure 2. From the roller 20 the cloth follows the path taken by the cloth when unwound from roller 20.

5 It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the
10 combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A cloth straightening machine comprising a frame, a set of rollers journaled
15 therein, a second set of rollers, a bearing box for one end of each of the second set of rollers, means for mounting said box so that it can rotate about a vertical axis, bearing
20 boxes, arranged in pairs, for the other ends of said second set of rollers, a bar connecting the boxes of each pair together, a support for each pair, means for connecting the bar to the support so that the bar can rotate
25 about a vertical axis and means for sliding

the supports longitudinally of the frame to place the second set of rollers in an inclined position.

2. A cloth straightening machine comprising a frame, a set of rollers journaled
30 therein, a second set of rollers, a bearing box for one end of each of the second set of rollers, means for mounting said box so that it can rotate about a vertical axis, bearing
35 boxes, arranged in pairs, for the other ends of said second set of rollers, a bar connecting the boxes of each pair together, a support for each pair, means for connecting the bar to the support so that the bar can
40 rotate about a vertical axis and means for sliding the supports longitudinally of the frame to place the second set of rollers in an inclined position, said means consisting
45 of a bar upon which the pairs of boxes rest, a screw threaded shaft engaging the screw threaded opening in said bar and a handle on the shaft.

In testimony whereof I affix my signature.

WILLIAM GIGLIOTTI.