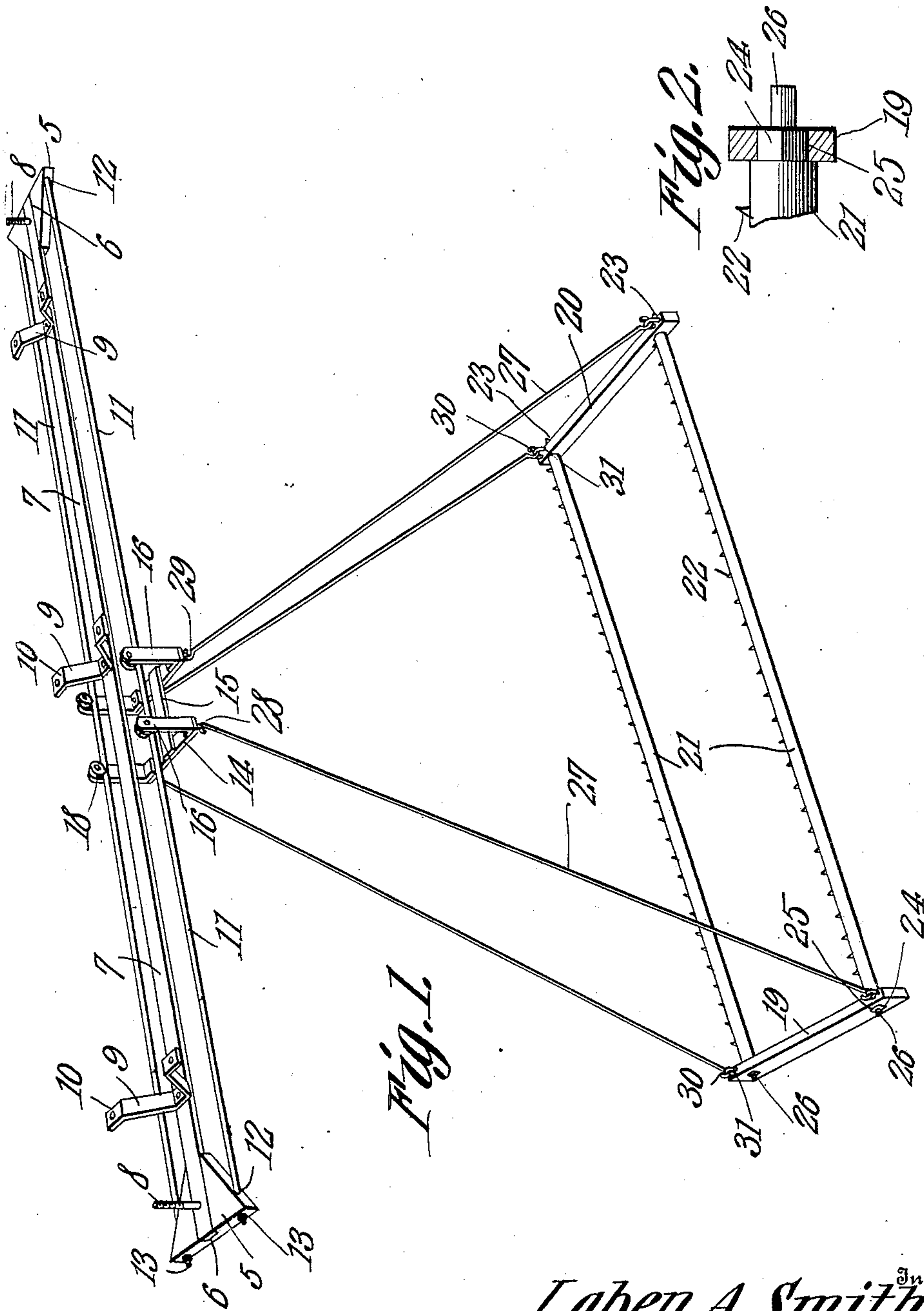


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 QUILTING FRAME.
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925,046.

Patented June 15, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

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QUILTING-FRAME.

No. 925,046.

Specification of Letters Patent.

Patented June 15, 1909.

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To all whom it may concern:

Be it known that I, LABEN A. SMITH, a citizen of the United States, residing at Gastonia, in the county of Gaston and State of North Carolina, have invented new and useful Improvements in Quilting-Frames, of which the following is a specification.

This invention relates to quilting frames and has for its object to provide a comparatively simple and inexpensive device of this character adapted to be suspended from a track or other over-head support and by means of which a quilt may be conveniently supported in position to be operated upon by a sewing-machine.

A further object is to provide an improved form of track for suspending the quilting frame from a ceiling or other support, said track including terminal heads connected by spaced rods upon which are mounted for travel the wheels or rollers of the quilting frame carriage.

A still further object of the invention is generally to improve this class of devices, so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification:—Figure 1 is a perspective view of a quilting frame constructed in accordance with my invention, showing the manner of suspending the same from a ceiling or other support. Fig. 2 is an enlarged detail sectional view of one end of the quilting frame.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved quilting frame forming the subject matter of the present invention includes an over-head track comprising terminal substantially tri-angular shaped heads 5 formed of wood or other suitable material and having longitudinally disposed grooves 6 formed in their upper faces for the reception of a connecting bar or strip 7, there being perforations formed in the strip 7 and the adjacent heads 5 for the reception of bolts or similar fastening devices 8 which screw into the ceiling or other support and serve to anchor the track thereon.

One or more brackets 9 are preferably secured to the upper surface of the longitudinal connecting bar 7 and provided with diverging arms terminating in laterally extending perforated ears 10 adapted to receive suitable fastening devices and thus assist in suspending the track from the ceiling.

Disposed on opposite sides of the connecting strip 7 are longitudinal rods 11 having their opposite ends threaded and extended through suitable openings 12 formed in the adjacent heads for engagement with clamping nuts 13 so that by rotating the nuts 13, the tension of the rods may be regulated at will. The rods 11 constitute a track upon which is mounted for travel a carriage 14. The carriage 14 comprises one or more transverse bars united by a longitudinal connecting bar 15 and to the opposite ends of which are riveted, soldered or otherwise rigidly secured supports 16 in which are journaled wheels or rollers 18 for engagement with the rods 11.

Suspended from the carriage 14 is the quilting frame proper, the latter being substantially rectangular in shape and formed of spaced end bars 19 and 20 connected by longitudinally disposed rollers 21, the latter being provided with a series of impaling hooks 22 for engagement with the quilt or other work being operated upon. The ends of the rollers 21 at the end-piece 20 are reduced to form cylindrical bearings 23 which engage corresponding bearings formed in said end-piece, while the terminals of the rollers at the end-piece 19 are provided with squared portions 24 for engagement with correspondingly squared sockets 25 in said end-piece, the squared portions 24 being provided with reduced cylindrical portions 26 which normally project beyond the outer face of the end-piece 19, as shown. Thus it will be seen that by moving the end-piece 19 laterally on to the cylindrical portions 26 of the bars 21 either bar may be rotated to wind the quilt on said bars and thus present a fresh surface to the needle, said bars 21 being locked against accidental rotation by moving the end-piece 19 into engagement with the squared portions 24 of the rollers.

The quilting frame is suspended from the carriage by means of diverging rods 27 having their upper ends provided with terminal hooks 28 which engage suitable eyes 29 carried by the transverse bars of the carriage, while the lower ends of said bars are extended

to the opposite ends of the end-pieces 19 and 20 and provided with similar hooks 30 arranged to engage loops or eyes 31 secured in any suitable manner to the upper longitudinal edges of said end-pieces. Thus it will be seen that by moving the carriage 14 longitudinally of the over-head track or support, the quilt may be positioned beneath the embroidering needle of a sewing-machine, while, by rotating either of the cylinders or rollers 21, the quilt may be wound upon said rollers so as to present a fresh surface to the needle and thus permit the entire surface of a quilt to be operated upon without removing the latter from the quilting frame.

Having thus described the invention what is claimed is:—

1. In a quilting frame, an over-head track comprising terminal heads having longitudinally alined grooves formed in their upper surfaces, a longitudinal bar seated in said grooves and connecting the heads, fastening devices extending through the heads and bar at said grooves for engagement with a ceiling or other support, brackets secured to the longitudinal bar between the heads for attachment to the ceiling, rods disposed on opposite sides of the longitudinal bar and having their terminal portions extending through the adjacent heads and provided with threads, a carriage mounted for travel on the rods, a frame suspended from the carriage, and clamping nuts engaging the threaded ends of the rods and bearing against the adjacent longitudinal edges of the heads for adjusting the tension of said rods.

2. In a quilting frame, an over-head track comprising terminal heads substantially triangular in contour and having their upper surfaces provided with longitudinally disposed grooves and their opposite sides formed with openings, a longitudinal bar

seated in the grooves of the heads, fastening devices passing through said heads and longitudinal bar for engagement with a ceiling or other support, brackets secured to the upper surface of the longitudinal bar between the terminal heads and provided with laterally extending perforated ears adapted to bear against the ceiling, spaced rods disposed on opposite sides of the longitudinal bar and having their opposite ends threaded and extended through the openings in the adjacent heads, a carriage mounted for travel on the rods, a frame suspended from the carriage, and clamping nuts engaging the threaded ends of the rods and bearing against the adjacent heads for regulating the tension of the rods.

3. In a quilting frame, an over-head track, a carriage mounted for travel on said track and provided with spaced eyes, a frame disposed beneath the carriage and including spaced end-pieces having eyes secured to their upper longitudinal edges, one of said end pieces being formed with squared sockets and the other with cylindrical sockets, rollers connecting the end-pieces and each having one end thereof provided with a cylindrical portion arranged to enter the cylindrical socket in the adjacent end-piece, the opposite end of each roller being provided with a squared portion adapted to enter the squared socket in the opposite end-piece of the quilting frame and provided with a reduced cylindrical extension, and rods provided with terminal hooks arranged to engage the eyes on the carriage and end-pieces respectively.

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