

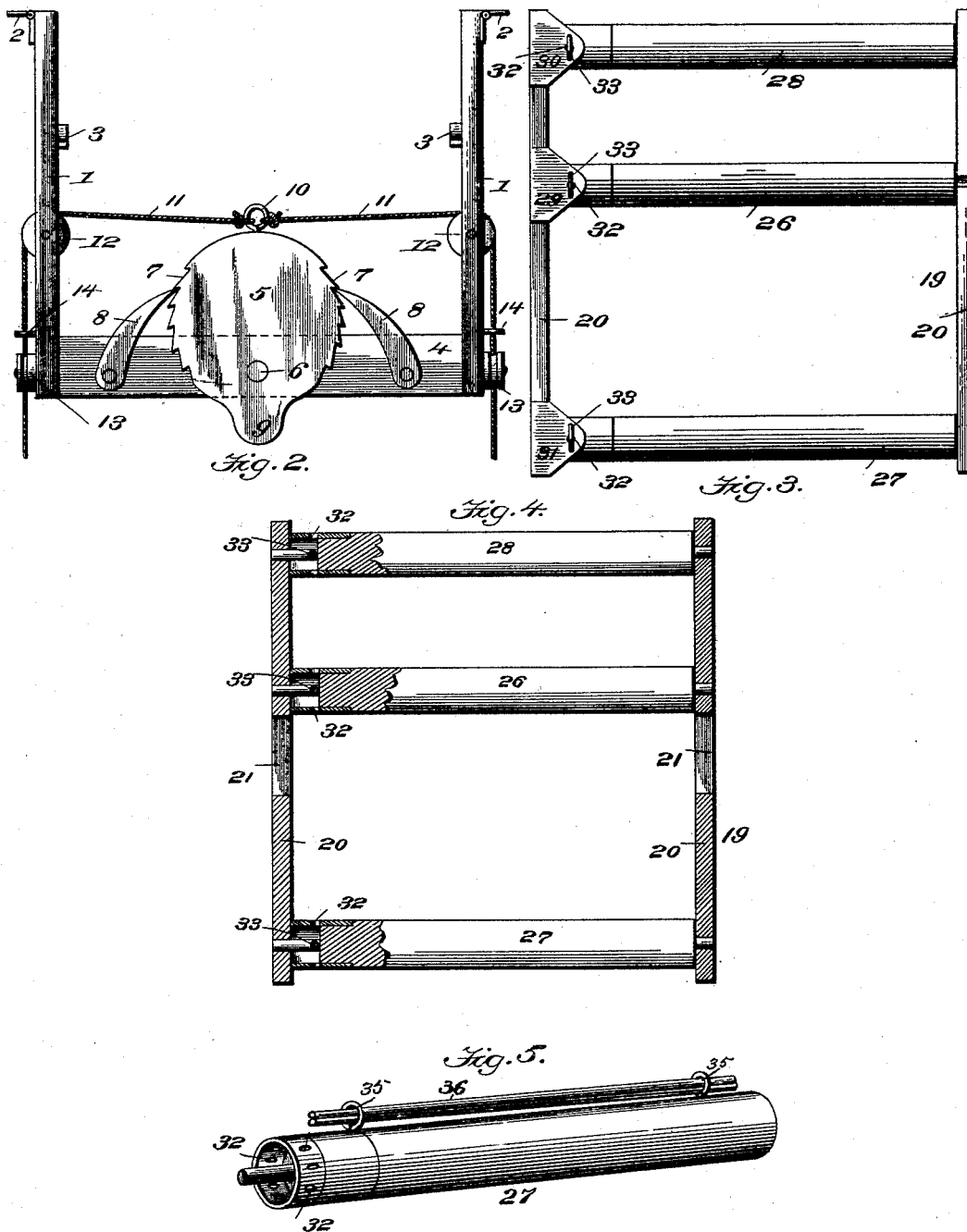
(No Model.)

2 Sheets—Sheet 2.

J. R. DUNCAN.
QUILTING ATTACHMENT FOR SEWING MACHINES.

No. 489,156.

Patented Jan. 3, 1893.



Witnesses

W. C. Chas. E. Hager

Inventor

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UNITED STATES PATENT OFFICE.

JOHN R. DUNCAN, OF GLEN COVE, ASSIGNOR OF ONE-HALF TO W. P. RASCO,
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QUILTING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 489,156, dated January 3, 1893.

Application filed May 31, 1892. Serial No. 435,031. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. DUNCAN, a citizen of the United States, residing at Glen Cove, in the county of Coleman and State of Texas, have invented a new and useful Quilting Attachment, of which the following is a specification.

This invention relates to certain new and useful improvements in quilting attachments and consists of the construction and arrangement of the parts thereof as will be more fully hereinafter described and claimed.

The object of this invention is to facilitate the operation of quilting by providing means whereby the quilting frame proper may be adjusted to different angles and may be turned or swung around as desired to accommodate various kinds of seams or the elevation of various machines and also to so arrange the parts of the device as to readily adjust them for storage when not in use.

In the drawings—Figure 1 is a perspective view of the quilting attachment or apparatus. Fig. 2 is an elevation on an enlarged scale of the track-supporting and adjusting frame. Fig. 3 is a top plan view of the quilting frame. Fig. 4 is a horizontal section on the line $x-x$, Fig. 1. Fig. 5 is a detail perspective view of one of the rollers removed.

Similar numerals of reference indicate corresponding parts in the several views.

Referring to the drawings, the numeral 1 designates uprights, having attaching hinges 2 at the upper ends thereof, which are adapted to be secured to the ceiling or floor beams overhead, and are provided with braces 3, which are pivotally connected to the said uprights and are adapted to be extended and bear against the side wall to prop the upper part of the frame at a suitable distance from the wall in order to hold the position of the suspended parts in a stable manner, and the upper part of the said braces also bear against the ceiling, the side walls being engaged by said braces at the angle with the ceiling. The lower portions of the uprights 1 are connected by a cross-strip 4, to which is centrally pivoted a governor 5, consisting of a flat piece or plate of material substantially of circular form and having the pivot thereof, as at 6, extending eccentrically therethrough. The opposite

edges of the said governor 5 are formed with teeth 7, adapted to be engaged by pawls 8, pivotally connected to the strip 4, adjacent to the governor. The lower portion of the said governor is formed with an engaging or finger piece 9, by which the same may be operated, and extending slightly below the said strip 4, as fully shown. An eye 10 is secured to the upper central portion of the governor 5, and thereto are attached two cords or ropes 11, which project laterally from the eye and pass over pulleys 12, mounted in the uprights 1, and then down over pulleys 13 at the lower ends of the said uprights at the outer sides of the same, and are confined in their proper positions on the pulleys 13 by eyes 14 secured to the uprights 1 above the said pulleys 13. The ends of the said cords or ropes 11 are connected to the opposite ends of a track-bar 15, which is freely suspended thereby and over which travels a grooved roller 16, embraced by the upper ends of a depending yoke 17 and having a bolt 18 swiveled in the lower portion thereof. The angle of inclination of the track-bar 15, and consequently of the quilting frame which is suspended therefrom, is made regulable through the medium of the governor 5 which may be adjusted in either one of two directions, and thereby tighten up or draw on one cord or rope 11 and loosen or slacken the other, as will be readily understood.

The quilting frame 19 is formed with side-bars 20, having slots 21 in the same in which are adjustably mounted bolts 22, having arms 23 pivotally connected to the same and secured at their upper ends to a supporting or suspending bar 24 having a central opening 25, in which is adjustably and movably fitted the bolt 18 hereinbefore set forth. The lower end of bolt 18 is screw-threaded and receives a nut whereby vertical adjustment may be obtained. Said bolt 18 also fits loosely enough in the bar 24 to permit said bar to swing horizontally thereon. The side-bars 20 have three rollers 26, 27, and 28 mounted between the same, and adjacent to the one end of each of the rollers and projecting over the same are ears 29, 30, and 31, having openings therein which align with openings 32 in the ends of the rollers adjacent thereto for the purpose of receiving a key 33, by means of which the

said rollers may be adjusted from time to time. The roller 26 has one of its journals removably fitted in a slot 34 in one of the side-bars 20, for evident purposes, and to accomplish
5 this removable fitting the plate 29 is removable. In connection with the rollers are eyes 35, in which are removably fitted rods 36, more than one being employed and which are adapted to be placed over the portions of the
10 quilt engaging the same to hold them intact therewith, and thereby a convenient and advantageous form of fastening is formed. The arms 23 are adjustably fitted to the side-bars 20 in order that the quilting frame may be
15 properly balanced.

The advantages of the construction consist in the convenience with which the device can be hung and successfully worked in more than one position without changing the arrangement
20 of the parts or causing the operator to remove from a stationary position. The arrangement of the three rollers provides for convenience in inserting the batting, which can be regulated as desired, and they also permit the operation of quilting to be accomplished either from the middle portion thereof, one side, or one end; and the extended distance between rollers 26 and 27 makes the quilting operation very easy. Further, the
30 size of the fabric being quilted is not limited, as a large or a small piece may be successfully operated upon, and may also be quilted by sections if so desired, which is readily understood by those skilled in the art. The rods
35 36 removably clamp the end of the material or parts of which the quilt is made in connection with each roller, and by employing a number of said rods a secure fastening can be

more readily produced, and being readily removable, the ends of the parts of the quilt 40 may be readily disengaged and detached.

It will be understood that the attachment hereinbefore set forth may be used with an ordinary sewing-machine and is not limited in this respect in its use. 45

Having thus described the invention, what is claimed as new is—

1. In a quilting attachment, the combination of a frame having a track suspended therefrom, a governor for regulating the inclination of the track consisting of a plate pivoted to the said frame and having teeth on opposite sides thereof, pawls for engaging said teeth, and a quilting frame movably suspended from said track by a roller engaging 55 the same, substantially as described.

2. In a quilting attachment, the combination of an upper frame, a governor mounted thereon consisting of a plate having teeth on opposite sides thereof adapted to be engaged 60 by pawls, and a finger piece for operating the same, an eye secured to the upper central portion of the said plate, cords connected to said eye and extending laterally therefrom in opposite directions and over pulleys in and on 65 the sides of the said frame, a track secured to the lower ends of said cords, and a quilting frame suspended from said track, substantially as described.

In testimony that I claim the foregoing as 70 my own I have hereto affixed my signature in the presence of two witnesses.

JOHN R. DUNCAN.

Witnesses:

J. J. MARCUS,

E. E. MARCUS.