

(No Model.)

2 Sheets—Sheet 1.

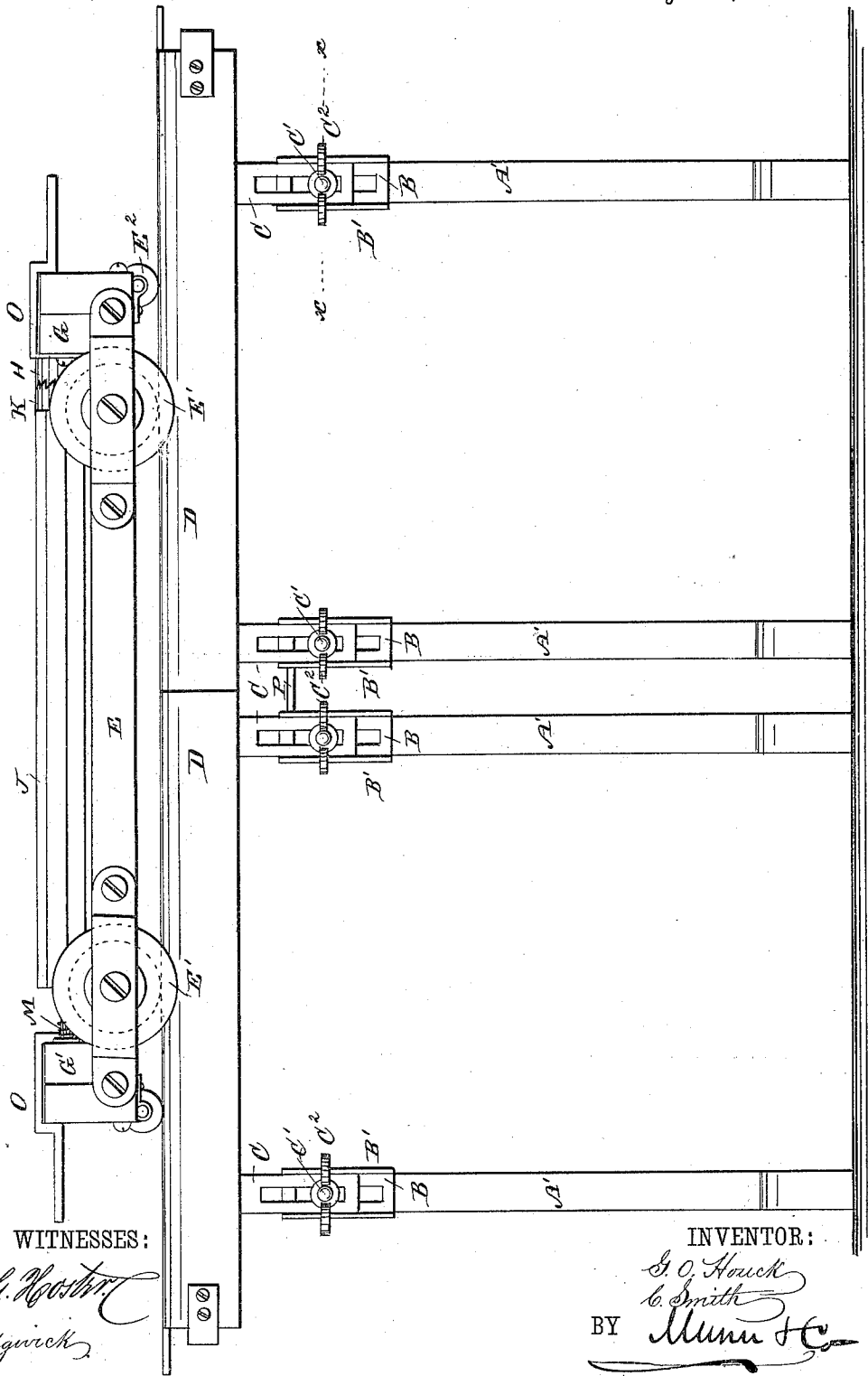
G. O. HOUCK & C. SMITH.

QUILTING ATTACHMENT FOR SEWING MACHINES.

No. 298,693.

Patented May 13, 1884.

Fig. 1.



WITNESSES:

Pho. G. Wood
C. Sedgwick

INVENTOR:

G. O. Houck
C. Smith

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE O. HOUCK AND CHARLES SMITH, OF SPRINGFIELD, OHIO, ASSIGNORS OF ONE-THIRD TO RICHARD H. HOUCK, OF SAME PLACE.

QUILTING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 298,693, dated May 13, 1884.

Application filed October 13, 1883. (No model.)

To all whom it may concern:

Be it known that we, GEORGE O. HOUCK and CHARLES SMITH, both of Springfield, in the county of Clark and State of Ohio, have invented a new and Improved Quilting Attachment for Sewing-Machines, of which the following is a full, clear, and exact description.

The object of our invention is to provide a new and improved frame for supporting, holding, and adjusting the material to be quilted on a sewing-machine.

The invention consists of the several herein-described and claimed combinations and arrangements of parts.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal elevation of our improved quilting attachment for sewing-machines. Fig. 2 is a plan view of the same. Fig. 3 is a cross-sectional elevation of the same. Fig. 4 is a cross-sectional plan view on the line *x x*, Fig. 1. Fig. 5 is a detail longitudinal sectional elevation on the line *y y*, Fig. 2.

A series of cross-pieces, A, are supported by legs A'. The upper surfaces of the cross-pieces A are rabbeted at the ends, and on the rabbeted ends longitudinally-slotted downwardly-projecting clips B are fastened, the said clips being provided on the edges with outwardly-projecting longitudinal flanges B'. On the outer surface of each clip B a longitudinally-slotted plate, C, is held in such a manner that it can be adjusted vertically on the same, the plates C being held on the plates B by the screws C', on which winged nuts C² are screwed. On the upper end of each plate C a step or hook, *c*, is formed, on which hooks *c* rails D D' are held, the rail D having a rounded edge, and the upper edge of the rail D' being flat. On one side of an oblong or like frame, E, two grooved rollers or pulleys, E', are held, which run on the rounded edge of the rail D, and on the opposite side of the frame E two rollers, E², are held on the end pieces of the frame, which rollers run on the rail D'. The end pieces of the frame are provided with longitudinal grooves

F, in which sliding bars G G' are held, which are adapted to slide transversely to the longitudinal axis of the frame E. On the outer surface of the end piece G two ratchet-rings, H, are held. Two polygonal rails or rollers, J, are each provided on one end with a ratchet-ring, K, adapted to engage with the ratchet-rings H. Pins L, projecting from the ends of the rails J, project into apertures *a* in the bar G through apertures in the middle of the rings H. Pins M project from the outer surface of the bar G into apertures in those ends of the rails J opposite those provided with the ratchet-rings K, which pins are surrounded by springs N, which press the ratchet-rings K against the ratchet-rings H. To the outer edges of the rails G G' hook-latches O are pivoted, which can be passed over the end pieces of the frame E, and thus clamp the bars G G' on the end pieces of the frame E. Two frames, formed of cross-bars A and legs A', are united by a hook-bar, P, to form a frame for supporting the carriage or frame E. Cloth strips are secured to the rails or rollers J, to which cloth strips the quilt can be sewed.

The operation is as follows: The top and bottom of the quilt are sewed to one of the rollers or rails J. Then the cotton, &c., is placed between the two layers, and the layers and the cotton are wound upon the rail, and the opposite end of the quilt is sewed to the other rail or roller, and wound upon the same, leaving the desired space for quilting, and the space between the stitching is regulated by shifting the bars G G' so that the needle of the sewing-machine can act on the part between the rollers or rails. The quilt is then moved in the direction of its length by moving the carriage on the rails D D'. As soon as the length of the quilt is stitched, the quilt is shifted by winding a short length of quilt from one roller or rail J upon the other. By means of the plates B C, the bolts C', and the winged nuts C² the rails D D' can be adjusted higher or lower, according to the height of the sewing-plate of the machine. The ratchet-rings H K hold the rollers or rails J in the desired relative position.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a quilting attachment for sewing-machines, the combination, with the rails D D', of the frame E, the rollers E' E'', the sliding bars G G', held in the end bars of the frame, the clamps O, pivoted to the bars G, the rollers J, the ratchets H and K, and the springs N, substantially as herein shown and described.

2. In a quilting attachment for sewing-machines, the combination, with the rails D D', of the frame E, the bars G G', sliding in the end pieces of the frame, the rollers J J', and of the clamp O, pivoted to the bars G G', for holding the said bars G G' to the end pieces of the frame E, substantially as herein shown and described.

3. The combination, with the cross-bars A, supported by legs A', of the longitudinally-slotted clips B, secured to the ends of the bars A, the sliding plates C, the bolts C', the winged

nuts C'', the track-rails D D', a carriage resting on the track-rails D D', and of rollers held in the carriage, to which rollers the quilt can be fastened, substantially as herein shown and described.

4. The combination, with the cross-bars A, supported by legs A', of the longitudinally-slotted clips B, having flanges B', the sliding plates C, the bolts C', the winged nuts C'', the track-rails D D', a carriage resting on the track-rails D D', and rollers held in the carriage, to which rollers the quilt can be fastened, substantially as herein shown and described.

GEORGE O. HOUCK.
CHARLES SMITH.

Witnesses:

JNO. M. SPECK,
H. S. SHOWERS.