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UNITED STATES PATENT OFFICE.

JOHN GOLDENBERG, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF TO SAMUEL COHEN, OF SAME PLACE.

CLOTH-SPREADING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 564,989, dated August 4, 1896.

Application filed April 29, 1895. Renewed January 13, 1896. Serial No. 575,390. (No model.)

To all whom it may concern:

Be it known that I, JOHN GOLDENBERG, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Unrolling or Spreading Cloth or Similar Material Prior to Cutting, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of novel details of construction, all as will be hereinafter set forth.

Figure 1 represents a perspective view of an apparatus for unrolling cloth or similar material embodying my invention. Fig. 2 represents a broken front elevation of the same, showing another form of supporting devices for the apparatus.

Similar letters of reference indicate corresponding parts in both the figures.

Referring to the drawings, A designates a suitable bed upon which the apparatus is adapted to be mounted.

B designates a bearing attached to said bed, in which is journaled the shaft of the gear C, the latter being provided with a crank-handle D. Said gear meshes with a pinion E, mounted on the shaft F, which latter rotates in suitable bearings G on the said bed, said shaft F having mounted thereon near its ends the sprocket-wheels H, which are engaged by the sprocket-chains J, which pass around other sprocket-wheels K at the other end of the bed, said wheels K being mounted on a suitable shaft L, which is journaled in the bearings M.

N designates posts or standards which may be composed of pipe-sections, if desired, one of said posts being on each side of the bed and, in the present instance, inside the chains J, the latter having a connection J² extending therefrom to the said posts N.

P designates a foot or base portion which is attached to said post, and is provided with the rollers Q, which run or travel in or on the tracks R, which are arranged substantially longitudinally of the bed A.

S designates cross-pieces which serve as a brace for said posts N, and which assist to guide the cloth as the same is unrolled, said

posts N being braced at their upper portion by means of the bar T, which is connected to each post N.

U designates bearings which are attached to suitable portions of said posts N, and have their tops open, whereby the shafts W can be readily placed therein, said shafts being prevented from lateral shifting by means of the collars X X on each end thereof. The said shafts W are each provided with a transversely-extending bar or rod Y, which has secured near its outer ends the forked pieces Z, portions of which engage the board or central portion A' of the roll of cloth A², which is mounted thereon, said pieces Z having pivotally attached thereto the rods B', which are pivoted to each other and to the central substantially horizontal rod C', whose free end enters the shaft W, which is preferably made of tubing, said rod C' being held in the desired position by means of the set-screw D', whereby it will be seen that as the rod C' is moved in or out of the shaft W the forked pieces Z will be caused to approach or recede from each other, since they slide freely on the rods Y, and so can be readily adjusted to support rolls or bales of cloth or other material of any size.

F' designates a rod which is attached to the brackets G', which are mounted on said posts N, the function of said rod F' being to hold that portion of the material which is being unrolled from the upper bale out of contact with the revolving roll which is below, as will be explained.

H' designates clamps which are suitably attached to the bed A, and which have a projecting finger J', whose end L' is adapted to engage the cloth as it is unrolled and hold the same in fixed position, as will be evident, said fingers being held in the desired position by the nuts K'.

The operation is as follows: The crank-handle D being rotated, the engagement of the gear and pinion C and E will cause the sprocket-chains J to move either to the right or to the left, and by reason of the connection J² between the posts N and said chains, the said posts will be caused to travel either to the right or to the left, as desired, and it will thus be seen that if the free end of one or

both of the rolls of the material A^2 be attached to a fixed point, as N' , and the posts N moved away therefrom, the said material will be readily unwound, and when the same
 5 has reached the extreme left of the bed by inserting the fingers L' therein and holding the same rigidly in place by tightening the nut K' the cloth will be held at that end of the board, and if now the posts N are caused to
 10 travel to the right another length or layer of the cloth will be unwound, and so on until all the cloth is unwound from the rolls, the clamping or holding devices being readily adjusted to rolls of different sizes by loosening
 15 the set-screws D' and moving the rods C' in or out of the shafts W , as is evident, and said shafts W can be readily inserted in their bearings U , as will be evident, the rod F' serving to hold the material of the upper roll
 20 out of contact with the lower roll as the same is unwound, while the rod S serves to hold the cloth from both rolls in proper position while it is being unwound, said rods S , F' , and T serving also to brace the posts or stand-
 25 ards N , as is evident, the material being thus unwound and superimposed upon the table in layers ready for cutting.

It will be evident that power may be applied to the shafts F and L in any suitable
 30 manner and that various changes may be made in the manner of assembling the different parts of the above apparatus, which will come within the scope of my invention, and I do not, therefore, desire to be limited in every
 35 instance to the exact constructions I have herein shown and described.

In Fig. 2 I have shown another form of supporting devices for the roll or bale of cloth, A^2 designating the cloth, as before; Z , one of
 40 the forked pieces supporting the same; B' C' , the adjusting devices; W , the shaft, and N one of the posts or standards in which said shaft is mounted. The stand N has a foot A^3 attached thereto, which rests upon the por-
 45 tion B^3 of the block C^3 , the parts being held in position by means of a suitable thumb-screw D^3 or similar device which passes through slots in said portions A^3 and B^3 . The lower portion of said block C^3 has journaled
 50 therein a roller D^4 , which is adapted to contact with the top of the table E^3 , said block having a depending slotted arm F^3 , against which is held the slotted arm G^3 , which has the extension H^3 attached thereto, in which
 55 is journaled the roller J^3 , which contacts with the under side of the table E^3 , the parts F^3 and G^3 being held in position by means of the thumb-screws K^3 , the block C^3 being suitably braced by means of the rod L^3 . It will thus
 60 be apparent from Fig. 2 that the posts N can be readily moved toward or away from each other, in order to adjust the apparatus to rolls

of cloth of varying widths, and the rollers D^4 and J^3 can be moved toward or away from each other to accommodate tables of different
 65 thicknesses.

I desire to call especial attention to the adjustable attachment whereby the cloth is enabled to be sustained in a central position, said attachment being capable of adaptation
 70 to rolls of varying sizes.

It will be evident from the foregoing that a very effective and efficient machine is thus obtained which is especially useful for spreading
 75 or unrolling cloth, goods, or similar material upon a table prior to cutting the same.

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

1. In a cloth-spreading apparatus, the posts
 80 N , a shaft W journaled on each of said posts, a transversely-extending rod connected with each of said shafts, the forked pieces Z movable on said rods, the rods C' guided on said shafts, and the braces B' pivoted to said fork-
 85 ing pieces and to said rods C' , said parts being combined substantially as described.

2. In a cloth-spreading device a bed, the posts N each having a slotted foot A^3 , the block C^3 having the roller D^4 bearing on said
 90 bed, the slotted portion B^3 connected with said foot A^3 , the thumb-screw D^3 and the depending slotted arm F^3 , the slotted arm G^3 carrying the roller J^3 bearing against the under side of the said bed and the thumb-screw
 95 K^3 , said parts being combined substantially as described.

3. In a cloth-spreading apparatus, a bed, posts adapted to support rolls of cloth thereon, having laterally-extending feet, blocks on
 100 which said feet are supported, means for adjusting said feet and blocks relative to each other, rollers journaled in said blocks, adapted to contact with the top of said bed, and arms
 105 F^3 adjustable relative to said blocks, each of said arms having an extension thereon and a roller journaled in said extension, and adapted to contact with the under side of said bed, substantially as described.

4. In a cloth-spreading apparatus, a bed,
 110 posts supported thereupon, shafts journaled on said posts, cloth-holding devices mounted on said shafts, blocks having rollers journaled therein and adapted to contact with said bed, means for connecting said blocks with said
 115 posts, arms having extensions thereon, connected to said blocks, and rollers journaled in said extensions also adapted to contact with said bed, substantially as described.

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Witnesses:

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