

No 18,322,

Patented Oct. 6, 1857.

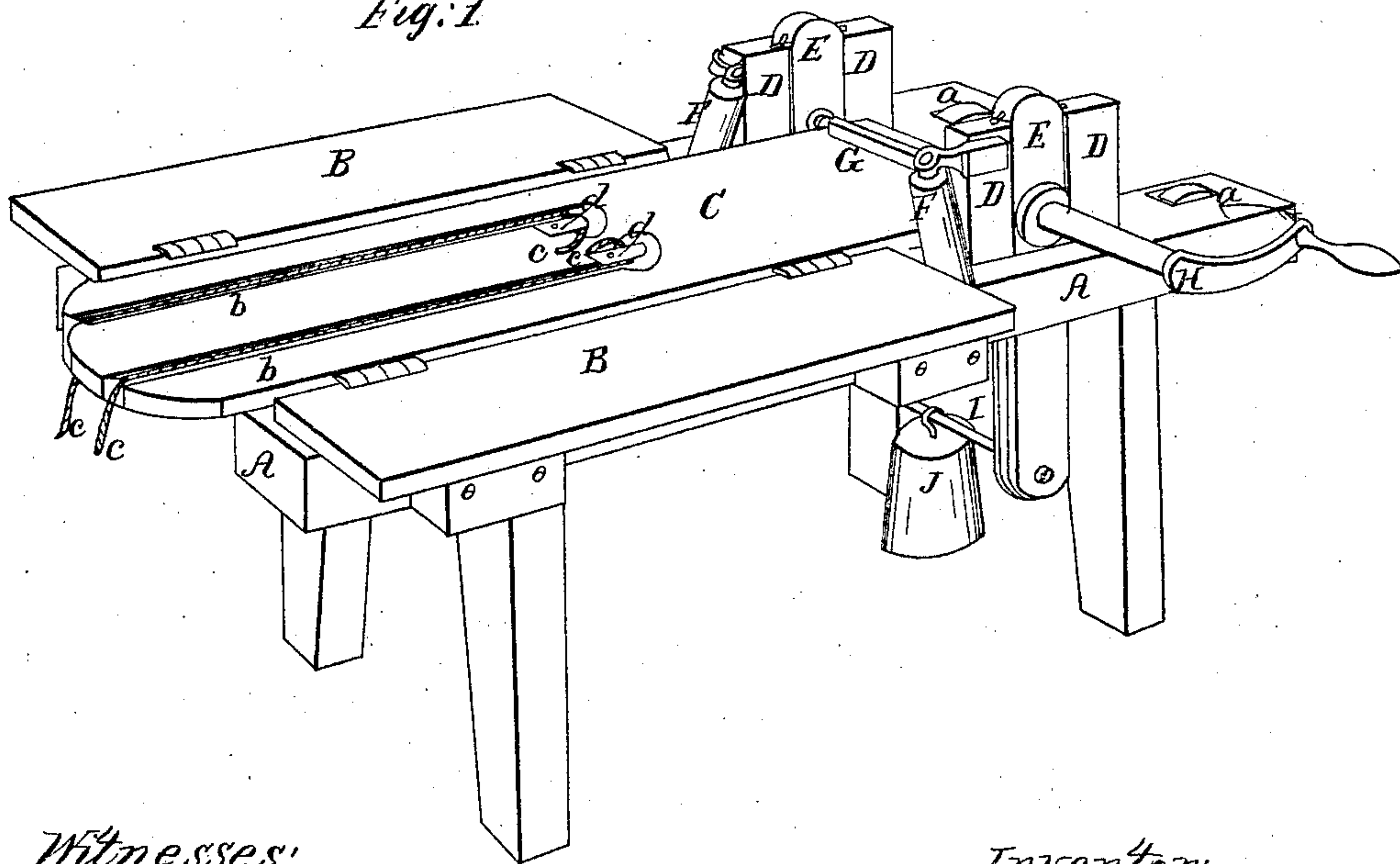
A technical diagram of a mechanical linkage system. A horizontal bar is supported by a vertical frame. The bar has a central pivot point labeled 'C'. Two vertical links, labeled 'A' and 'A'', are connected to the bar at points 'B' and 'B'' respectively. The links are shown in two positions, one solid and one dashed, indicating movement. The frame consists of two vertical supports, labeled 'R' and 'R'', which are connected by a horizontal base. The diagram is labeled with various letters and numbers, including 'B', 'B'', 'C', 'A', 'A'', 'R', 'R'', and 'Fv'.

Fig: 3.

Fig: 4.



Fig:1



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MACHINE FOR PACKING WOOL.

Specification of Letters Patent No. 18,322, dated October 6, 1857.

To all whom it may concern:

Be it known that I, CHARLES CARLISLE, of Woodstock, in the county of Windsor and State of Vermont, have invented a new and useful Machine for Binding Wool in the Fleece; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view; Fig. 2, a transverse section, and Figs. 3 and 4, transverse sections of a shaft hereafter described.

15 A, A, Fig. 1, is a wooden frame.

C, is a narrow and light movable table, resting on trucks in the frame work; two of which trucks (*a, a,*) are seen at the right hand end of the machine.

20 B, B, are two folding leaves hinged to the stationary frame work, and lying in the same plane with the movable table but not connected therewith.

25 H, G, is a winch and shaft resting on the table C, and having its bearings in two vertical slides E, E, which are guided by tongues and grooves in the slides and four upright pieces D, D, &c., made fast to the frame work. The slides E E pass downward through the frame work, and are connected together by a rod I, to which is attached a weight J.

35 F, F, are two antifriction rollers, set obliquely in the frame, so as to incline over the movable table C.

40 (*c, c,*) are two pieces of binding twine, passing through niches (*f, f,*) at the end of the table, and along in two grooves (*b, b,*) in the upper surface of the table, to the buttons (*d, d,*) under which the ends of the twine are drawn and fastened.

45 The folding leaves B, B, Fig. 2, are attached to the frame by bracket hinges (*g, g,*), so as to bring their center of motion at the upper and inner angle of the table, thus permitting the leaves to be folded over and upon the table, in the position shown by the dotted lines B' B'.

50 (*a, a,*) are trucks hung in the frame work on which rests the table C. (*h, h,*) are other trucks, attached to the underside of the table, and in contact with the inside of the two string pieces of the frame A A, for the purpose of guiding laterally, and keeping in place, the movable tables.

The shaft G, Fig. 1, in that portion resting on the table, should be made angular, that it may more firmly hold the fleece of wool in the process of winding up the same, as hereafter described. Figs. 3 and 4 are 60 transverse sections of two forms of angular shafts, which I have found to answer a given purpose.

To operate the machine, an open fleece of wool is spread upon the table and leaves 65 B, C, B, Fig. 1, the sides of the fleece are then folded inward, partly by hand, or by folding the leaves inward upon the table, as the case may require, until the fleece is packed straight and even upon the table, 70 which is then moved to the right, and the end of the fleece is brought under and folded around the shaft G; the winch H, being now turned in the direction of the arrow, the fleece is wound compactly and neatly around 75 the shaft G. In the process of winding, the fleece will be slightly pressed inward on the table, by the rollers F, F, and consequently no displacement of the fleece, by friction against the upright pieces D, D, will take 80 place.

In the process of winding, the movable table C, being free to obey the slightest impulse, will, by the friction of the winding fleece, be brought forward and under the 85 shaft, with a speed which may be somewhat accelerated, and graduated, by a gentle pressure of the left hand, so as to preserve the fleece close, compact, and entire. The compactness of the fleece may be rendered more 90 or less, by increasing or diminishing the weight J. When the fleece is wholly wound around the shaft the binding twine (*c, c,*) will be lying under it, in right position for binding the same neatly and expeditiously. 95 The fleece being bound, the shaft G, is withdrawn, endwise from the fleece and the shaft boxes, the fleece removed and the machine is again put in the position seen in Fig. 1, preparatory for the reception of another fleece. 100 While the fleece is being wound up, the folding leaves B, B, are turned back to a horizontal position, as seen in Fig. 1.

It is found convenient in practice, to have two bales of binding twine under, or near 105 the machine in a basket or box, and having placed the ends of the twine on the table, as above described, to first wind up the fleece, and then cut the twine of the required length.

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

1. The shaft G, weighted on its bearings, and so adjusted as to rise or recede from the movable table B, while the fleece is being wound around it, substantially in the manner, and for the purpose specified.
2. The movable table C, for the purpose of conveying the fleece to and under the shaft G, while in the process of being wound up.
3. The oblique antifriction rollers F, F, for the purpose specified.

4. The folding leaves B, B, as detached from the movable table C, and yet so adjusted as to fold the fleece over and upon the table, and thus to straighten and compress it, preparatory to its being wound up.

5. The method of adjusting the binding twine (c, c,) so as to bring it under the fleece, in position for a neat and expeditious binding of the same.

CHARLES CARLISLE.

Witnesses:

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LUCIUS DEMMON.