

T. KINGSFORD.

Improvement in Box-Machines.

No. 131,009.

Patented Sep. 3, 1872.

Fig. 1.

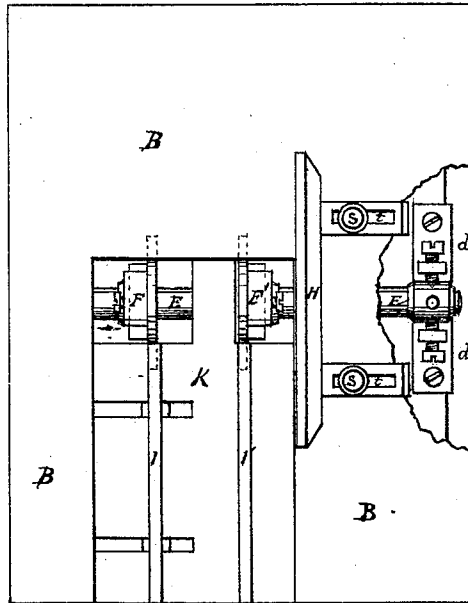


Fig. 2.

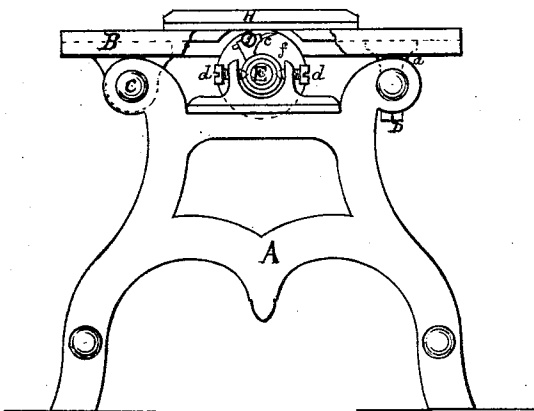
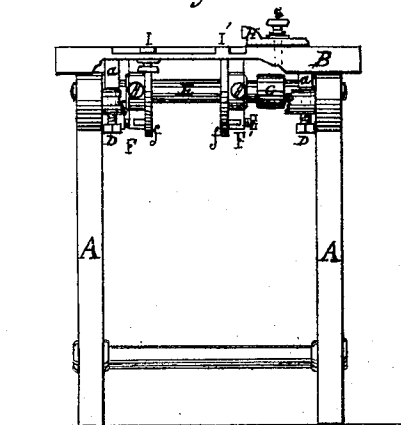


Fig. 3.



Witnesses.

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IMPROVEMENT IN BOX-MACHINES.

Specification forming part of Letters Patent No. 131,009, dated September 3, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, THOMSON KINGSFORD, of Oswego, in the county of Oswego and State of New York, have invented a new Improvement in Box-Machines; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawing, in which—

Figure 1 is a plan or top view of my improved box-dressing machine. Fig. 2 is an end elevation, and Fig. 3 is a front elevation of the same.

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

In the manufacture of boxes made of wood it is necessary, after the boxes are put together, to dress off the edges and ends of the tops and bottoms in order to make them smooth and flush with the sides of the box. This work has heretofore been done by hand planing. The object of my invention is to do this work more perfectly and rapidly than it can be done by hand, by means of the machine hereinafter fully described.

In the drawing, A marks the frame of the machine; B, the top or table, hinged to the frame at C so as to be raised or lowered when desired. When down the table B rests by cleats *a a* upon the upper ends of adjusting-screws D D, by which the height and inclination may be regulated. E is the main shaft or arbor to which the cutter-stocks F F' and pulley G are attached. The arbor is driven by the pulley G, which receives motion by a band from any suitable prime mover. H is an adjustable guide placed on top of the table, and fixed to it in any desired position by means of the set-screws *s s*, received by the slots *t t*. The part of the table marked K is cut away or depressed below the level of the other portion of the top, and attached to such depressed portion are the strips I I' of such thick-

ness that their top surfaces are level with the general surface of the table, as shown in Fig. 3. One of the cutter-heads, F, is movable on the arbor E so that the requisite adjustment may be made to enable the machine to dress boxes of various sizes, and with the same view one of the strips I is made adjustable to the table. Flanges *f f* on the cutter-heads prevent the cutters *c* from cutting too deep into the wood. By being placed in the same line with the strips I I' they form a continuation of the ways for supporting the box while being dressed. In the adjustment of the machine for boxes of the various sizes the adjustable guide H, cutter-heads F, and ways I are so placed that the projecting top and bottom of the box to be trimmed will be outside of the ways I I' and pass directly over the cutters *c*. The journal boxes of the arbor E are adjusted by means of the set-screws *d d*.

The operation is as follows: Motion being communicated to the arbor E, the box to be dressed is held against the guide H and moved over the cutters *c*, which plane off all that portion of the edges of the top and bottom of the box which projects beyond its sides.

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

The combination and arrangement, in a machine for dressing boxes, of the hinged and adjustable table B having the depressed portion K, the adjustable guide H, the adjustable ways I I', and the adjustable flanged cutter-heads F F', all constructed and operating in the manner and for the purpose specified.

The above specification of my said invention signed and witnessed at Oswego.

THOMSON KINGSFORD.

Witnesses:

J. H. WOODRUFF,
JOHN H. WOOD.