(No Model.)

J. R. BURKHOLDER.

IMPLEMENT FOR BANDING BOXES.

No. 523,971. Patented Aug. 7, 1894.

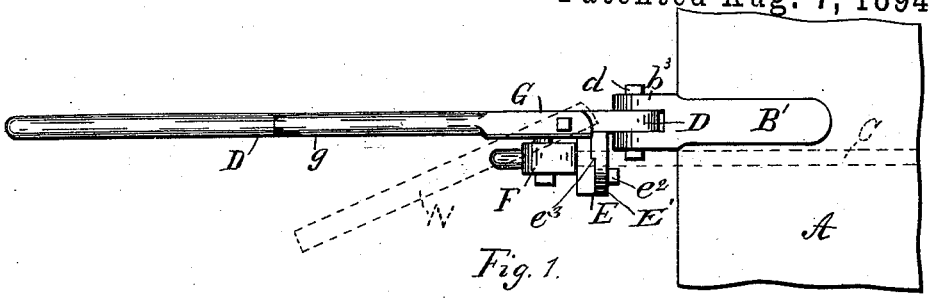
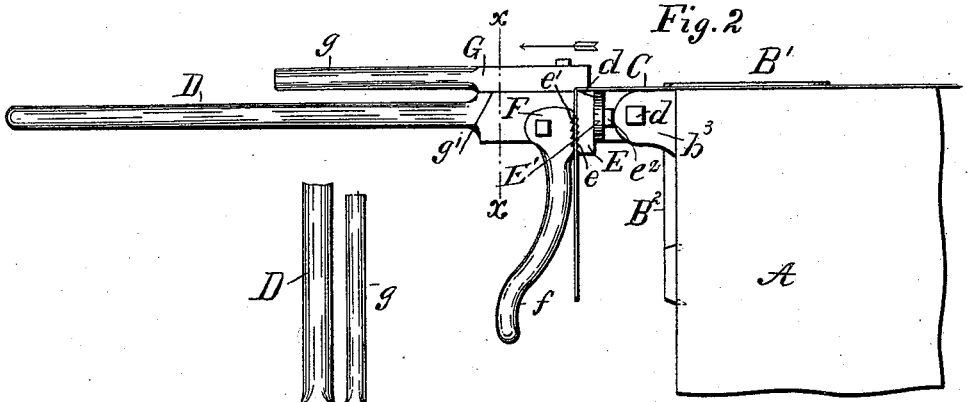


Fig. 1.

Fig. 2



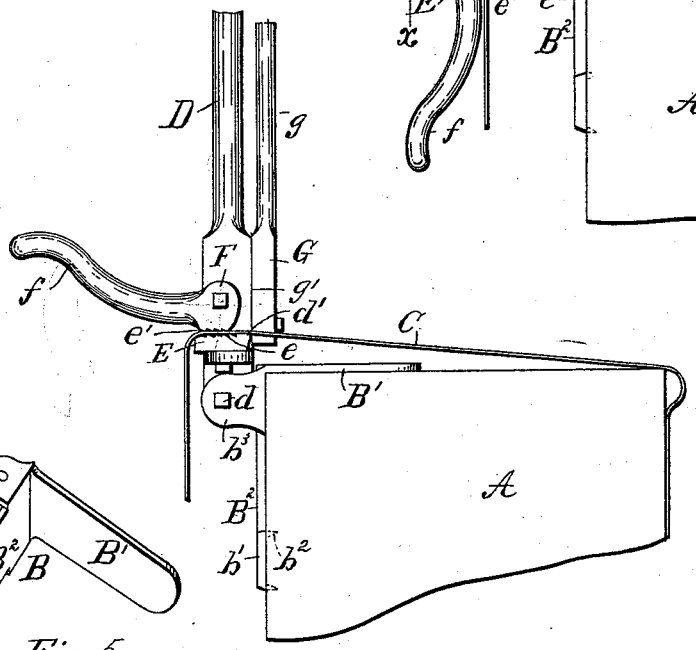


Fig. 3.

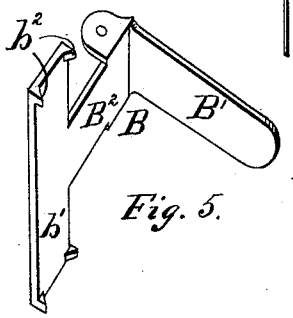


Fig. 5.

Fig. 4.

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JONAS R. BURKHOLDER, OF LANDIS VALLEY, PENNSYLVANIA.

IMPLEMENT FOR BANDING BOXES.

SPECIFICATION forming part of Letters Patent No. 523,971, dated August 7, 1894.

Application filed October 9, 1893. Serial No. 487,573. (No model.)

To all whom it may concern:

Be it known that I, JONAS R. BURKHOLDER, a citizen of the United States, residing in Landis Valley, county of Lancaster, State of Pennsylvania, have invented certain Improvements in Implements for Banding Boxes, of which the following is a specification.

This invention relates to improvements in that class of implements designed for tightening bands around boxes, bales, and the like; and the object of the improvement is to provide a cheap, portable implement, simple in construction, and with which bands can be tightened more readily and expeditiously than with the implements now in use.

The invention consists, essentially, in the combination, with a tightening-lever for drawing up the bands, of a bearing-plate secured thereto and having one edge formed as a blade, a clamp on the tightening-lever constructed to act with the bearing-plate, and a shear pivoted to the tightening-lever and adapted to coact with the blade of the bearing-plate.

I attain my object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of a band-tightener embodying my improvements, the lever being shown in a horizontal position. Fig. 2 is a side view, showing the parts in the same position; Fig. 3, a similar view, with the lever and accompanying parts shown in an elevated position, and Fig. 4 a vertical section on the line x—x of Fig. 2, viewed from the direction of the arrow. Fig. 5 is a perspective view of the lever brace.

Similar letters indicate like parts throughout the several views.

Referring to the details of the drawings, A indicates a portion of a box or bale, and C a band to be tightened about the same.

B is a lever-brace, comprising arms B′ and B^2 set at right-angles with each other. Arm B′ is adapted to embrace one side of the box or bale, and arm B^2 an adjacent side thereof. On arm B^2 there is formed a cross-piece b', having teeth b^2, on the ends thereof adapted to take into and secure the brace to the side of the box or bale.

D is a tightening-lever, having fulcrum-pins d, which engage bearings in lugs, b^3, projecting from arm B^2 of the brace. From the side of this lever there projects an arm E′, to the outer face of which is removably secured a bearing-plate E by a bolt e^2, passing through a perforation in arm E′. In the inner face of plate E is a recess forming a shoulder e^3, which engages a corresponding shoulder in the front face of arm E′, the body of plate E resting in the recess in the front of arm E′ formed by the shoulder thereon. Said plate E has an outer or upper serrated bearing-surface e, and the outer side of its pivotal edge, as it were, is beveled to form a stationary blade d'.

Above or outward from bearing-plate E there is pivoted to lever D a clamp F, provided with a cam or eccentrically-shaped and serrated lower surface, e', adapted to register, and preferably interlock with the serrated surface e of said bearing-plate and having a handle f.

To the top of lever D and adjacent to bearing-plate E is pivoted a lever-shear G, having a handle g, which normally extends outward parallel with lever D. The inner lower edge of the pivoted end of G is formed as a shearing-blade, g', and is adapted to operate in combination with the stationary blade d' of plate E.

In operating the lever-brace is placed against the box or bale with the tightening lever elevated, as shown in Fig. 3; band C is engaged between the serrated surfaces of bearing-plate E and the clamp F, and the lever is then depressed into the position shown in Fig. 2, or as much lower as may be necessary to properly tighten up the band. After the tightened band is secured to the box or bale, lever-shear G is forced around into the position shown by dotted lines N, in Fig. 1, thus in conjunction with stationary blade d', detaching the surplus of the material forming band C.

The interlocking shoulders of arm E′ and bearing-plate E prevent any rotation of the latter about bolt e^2 under the pressure exerted by lever-shear G. The removable connection between the two also permits the detaching of bearing-plate E from arm E′ to sharpen blade d' or to substitute a new bearing-plate.

I do not limit myself to any particular connection between the tightening-lever and the brace, as it is obvious that such connection can be made in a number of ways without departing from the spirit of my invention; neither do I restrict myself to the manner of connecting the shearing and stationary blades to the tightening-lever herein shown and described.

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

1. In a box-banding implement, the combination, with a tightening-lever, of a stationary bearing-plate attached thereto and having one edge formed as a blade, a clamp pivoted to the tightening-lever adjacent to the bearing-plate, and a shear pivoted to the tightening-lever and adapted to coact with the blade of the bearing-plate, for the purpose specified.

2. In a box-banding implement, the combination, with a tightening-lever, of an arm projecting therefrom, a bearing-plate removably attached to said arm and having one edge formed as a blade, a clamp pivoted to the tightening-lever adjacent to the bearing-plate, and a shear pivoted to said lever and adapted to coact with the blade of the bearing-plate, substantially as and for the purpose specified.

3. In a box-banding implement, the combination, with a tightening-lever, of an arm projecting therefrom, a bearing plate removably attached to said arm and having one edge formed as a blade, the meeting faces of the arm and bearing-plate having interlocking shoulders formed thereon, a clamp pivoted to the tightening-lever adjacent to the bearing-plate, and a shear pivoted to said lever and adapted to coact with the blade of the bearing-plate, substantially as and for the purpose specified.

JONAS R. BURKHOLDER.

Witnesses:
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