

H. A. Crossley,

Slave Joiner.

No. 95,774.

Patented Oct. 12, 1869.

Fig. 1.

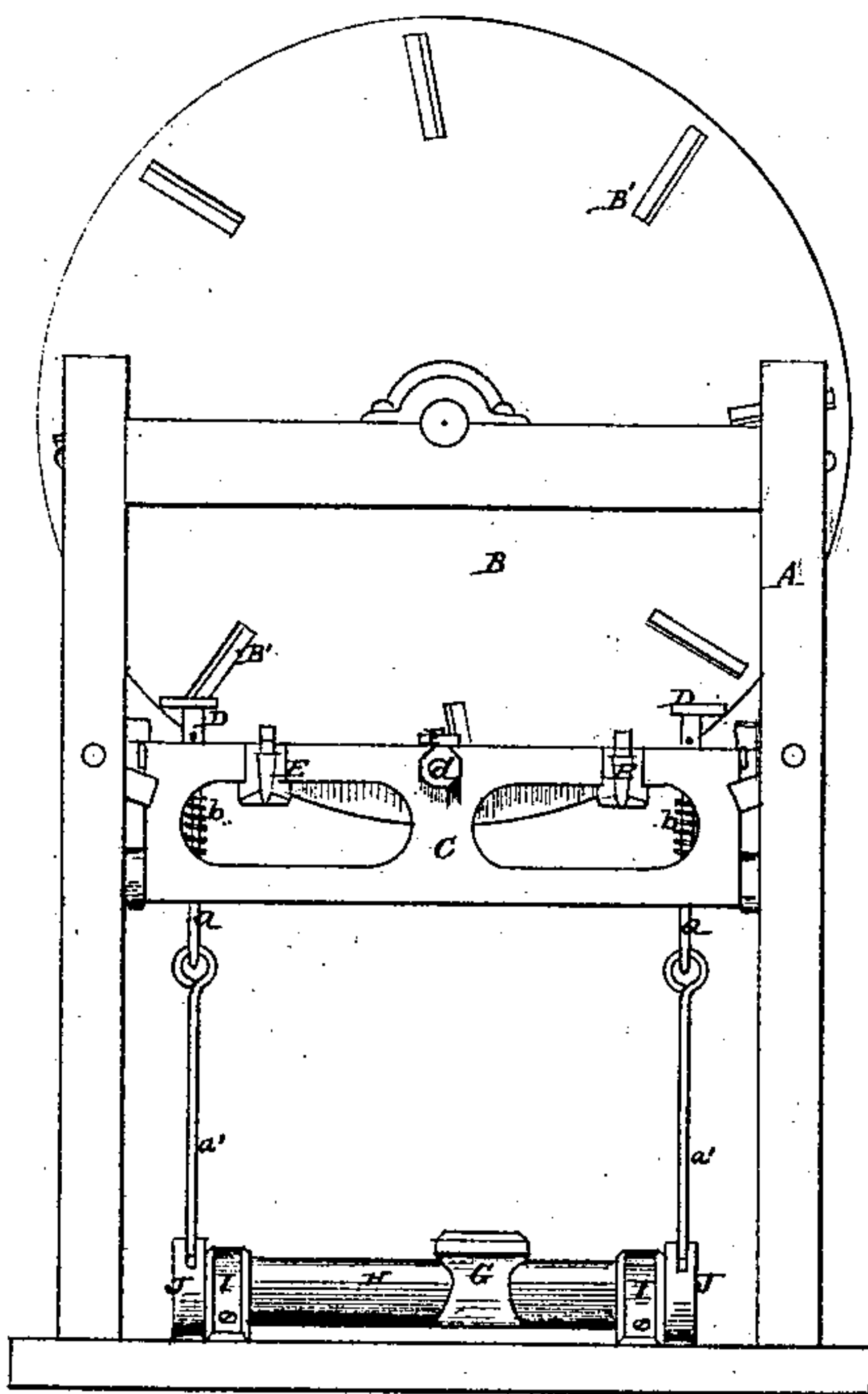
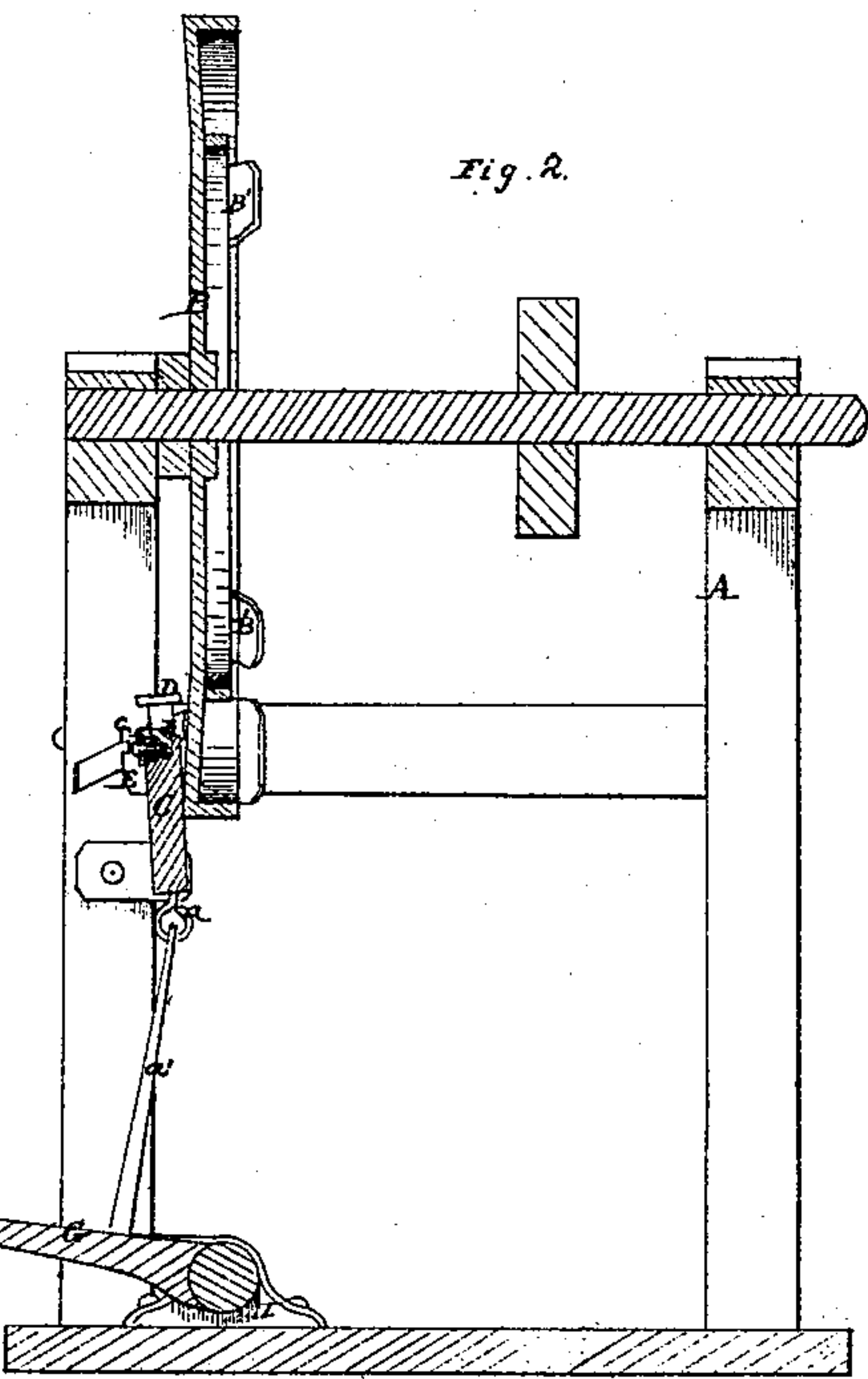


Fig. 2.



Witness

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H. A. CROSSLEY, OF CLEVELAND, OHIO.

Letters Patent No. 95,774, dated October 12, 1869.

IMPROVEMENT IN STAVE-JOINTER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, H. A. CROSSLEY, of Cleveland, in the county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Stave-Jointers; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view.

Figure 2 is a vertical section.

Like letters of reference refer to like parts.

The nature of this invention relates to an adjustable frame or table, for holding and supporting the stave to be jointed, together with the devices for adjusting said frame and the wheel planer, as hereinafter described.

In the drawings—

A represents a frame, of suitable form and dimensions.

To the upper cross-beam of this frame is secured the jointer-wheel B, the face of which is formed as shown in fig. 2, and provided with the cutters B', more or less, as may be desired.

At the front of the frame, and near the lower side of the wheel, is hung, to the lugs secured on the ends of the frame A, the frame or table C.

At each end of this frame is the head-blocks D, to which are connected rods *a*, that pass down below the frame, a coiled spring *b*, passing round each rod, inside of the frame, which will be referred to hereafter.

E E are adjustable rests, provided with two shoulders *c c'*, fig. 2, and are secured to the frame C, one near each end.

F is also an adjustable rest, fixed to the centre of the frame, on the face of which rests the stave to be jointed, the rest being adjusted by means of the screw and nut *d*, fig. 2.

The object of these rests is to adjust the frame, so that any-sized stave may be jointed. If narrow, the rest F is in the position shown, the stave resting on the face of said rest, and the edge of the stave coming

against the lower shoulder *c'*. Thus the stave is kept in place against the wheel, and is also held to the frame by means of the head-blocks D, which are drawn down on the ends of the stave; and if the stave should be twisting or irregular, the ends are held firmly, thus securing the stave in a curved but true position, the centre of the stave supported by means of the rest F, the head-blocks being operated in the following manner:

In the lower part of the frame A is the treadle G, which is secured to the shaft H, having its bearings in the lugs I, secured to the base.

On the ends of the shaft that project through the lugs, are the arms J, from which extend up the rods *a'*, that connect with rods *a* attached to the head-blocks.

The frame C has a rocking motion, and will, of its own weight, lean from the wheel after the stave is placed in position. By pressing the foot on the treadle, it will, by means of the connecting-rods *a a'*, draw the head-blocks into the stave, and also draw the frame C into position against the wheel, and when the pressure on the treadle is removed, the frame will drop back, and the springs *b*, referred to, throw the head-blocks up; then the stave may be removed, and another take its place, the wheel B being operated by any suitable power.

What I claim as my improvement, and desire to secure by Letters Patent, is—

The swinging frame C, provided with clamps D *a*, operated by means of the rock-shaft H, J J, and treadle G, through the medium of the connection *a a'*, and when provided with springs *b b*, whereby the clamps are rendered self-releasing, all arranged substantially as herein described.

H. A. CROSSLEY.

Witnesses:

GEO. HESTER,
J. HOLMES.