G. COLLINS.

Saw-Buck.

No. 162,799. Patented May 4, 1875.

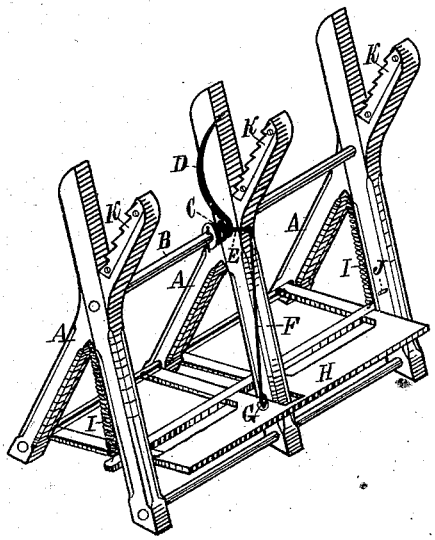

Fig. I.

Witnesses:
H. E. Metcalf
Lewis Shaw

Inventor:
George Collins,
Per C. A. Shaw,
Atty.

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

GEORGE COLLINS, OF KINGFIELD, MAINE.

IMPROVEMENT IN SAW-BUCKS.

Specification forming part of Letters Patent No. **162,799**, dated May 4, 1875; application filed April 6, 1875.

To all whom it may concern:

Be it known that I, GEORGE COLLINS, of Kingfield, in the county of Franklin, State of Maine, have invented a certain new and useful Improvement in Saw-Bucks, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view.

My invention relates to means for holding and controlling the stick while being sawed; and consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simple, cheap, and effective device of this description is produced.

The nature and operation of my improvement will be readily obvious to all conversant with such matters from the following explanation, the extreme simplicity of the invention rendering an elaborate description unnecessary.

In the drawing, A A A represent the frame-work of the buck, which is of the ordinary construction. Pivoted to one of the lower connecting-rods of the frame there is a treadle, H, connected at G, by the pitman-rod F, to the arm E. This arm is integral with the spring C, which is coiled loosely around the central connecting-rod B, one end of the spring forming the arm, the other bent outwardly or curved to form the prong or clutch D. A series of serrated plates, K K K, is firmly secured to the corresponding arms of the buck on the side opposite the clutch D, the teeth of the plates being inclined slightly in a downward direction. At each end of the treadle there is a coiled spring, one end of which is attached to the treadle, and the other to the frame-work of the buck, and which serve to elevate the treadle and arm E, and thus to throw the clutch backward and away from the toothed plate located nearest it.

In the use of my improved saw-buck the stick of wood is arranged in the usual manner. The foot is then placed upon the treadle H, causing the clutch D to grasp the stick and press it firmly against the serrated plates, by which it will be securely held in position during the operation of sawing, after which the foot is removed from the treadle, and the stick released by the action of the springs I I, as before explained.

It will be obvious that the construction and arrangement of the spring C render the buck automatically adjustable, or self-adapting to sticks of any ordinary size.

Having thus explained my invention, what I claim is—

In a saw-buck, substantially such as described, the treadle H, pitman F, spring I, plate K, and coiled spring C, provided with the arm E and clutch D, constructed and arranged to operate substantially as and for the purpose specified.

GEORGE COLLINS. [L. S.]

Witnesses:

W. M. RECORDS,

M. B. POTTLE.