

G. W. BAKER.
Saw-Mill Dogs.

No. 157,146.

Patented Nov. 24, 1874.

Fig. 1.

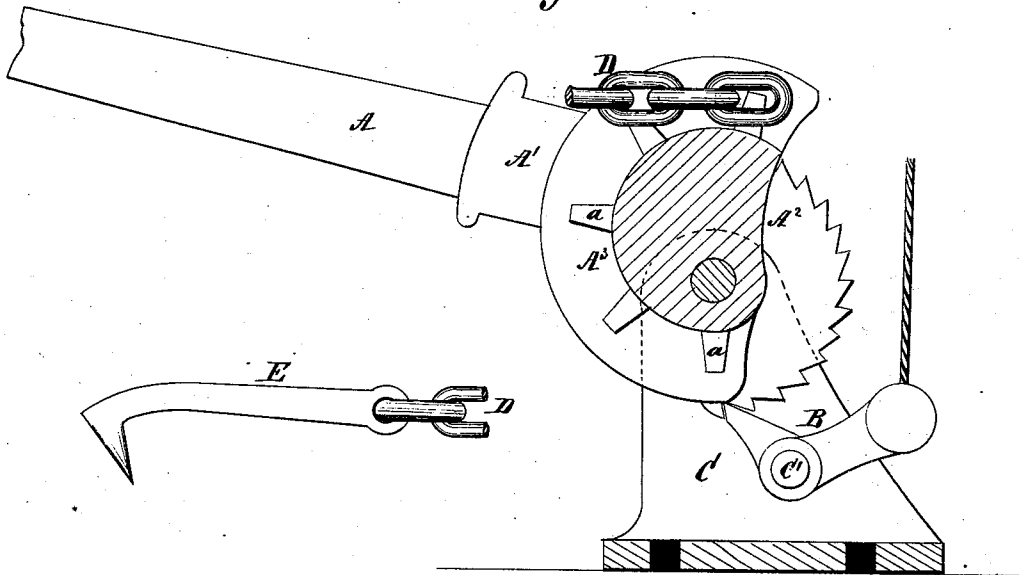
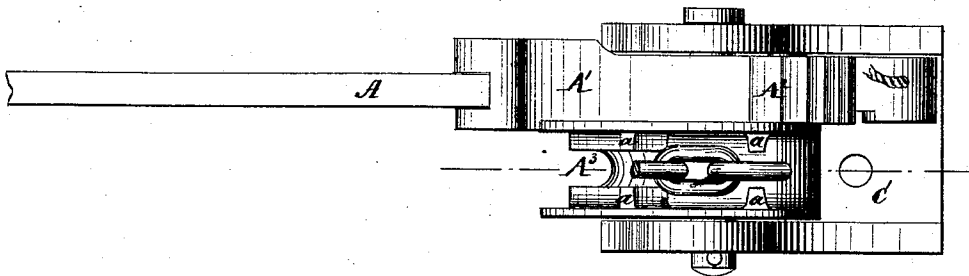


Fig. 2.



WITNESSES:

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INVENTOR:

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BY

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE W. BAKER, OF ELIZABETH CITY, NORTH CAROLINA.

IMPROVEMENT IN SAW-MILL DOGS.

Specification forming part of Letters Patent No. **157,146**, dated November 24, 1874; application filed June 16, 1874.

To all whom it may concern:

Be it known that I, GEO. W. BAKER, of Elizabeth City, in the county of Pasquotank and State of North Carolina, have invented a new and Improved Saw-Mill Dog; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a sectional and longitudinal elevation; Fig. 2, a plan view.

The invention relates to means by which the bend may be taken out of a saw-log, and the latter so held as to be conveniently sawed up into planks. The means which I employ consist of an end-cammed and ratcheted lever-head, a detent-pawl, and a case, all preferably constructed as hereinafter described.

A represents a lever-arm, which may be conveniently fitted into a socket, A¹, cast with the ratcheted cam-head A². The latter has also a side groove, A³, with opposite catch-points *a*. B is a detent-pawl, which works against the teeth of ratchet, so as to hold what has been gained by the lever. It is made of an obtuse-angled form, fulcrumed in the case or box C, and on the bolt C' at the vertex of its angle, and weighted at the rear end. The

weight end thus serves to keep the pawl to the ratchet ordinarily, and also to receive a chain, by which the pawl may be conveniently raised by hand, to unlock the lever for a return movement. D is a chain, provided with a fastening-dog, E, that is driven into the log at the point of greatest bend or convexity after it has been rolled up against the knees. As the lever is worked at great advantage by the slowly-decreasing cam, the bow of the timber is caused to gradually spring inward toward the middle knee, thus bringing the whole length of log into alignment, so that the saw readily cuts it up entirely without waste or loss of material.

I am aware that a hoisting device has been employed that exhibits a lever-socket, ratchet, weighted pawl, lifting-chain, and capstan wheel or drum; but

What I claim is—

The combination of head A², having lever-socket, ratchet, and sprocket-cam, with case C, having detent B, chain D, and dog E, as and for the purpose specified.

GEORGE W. BAKER.

Witnesses:

P. JOHN,
D. C. LIPPINCOTT.