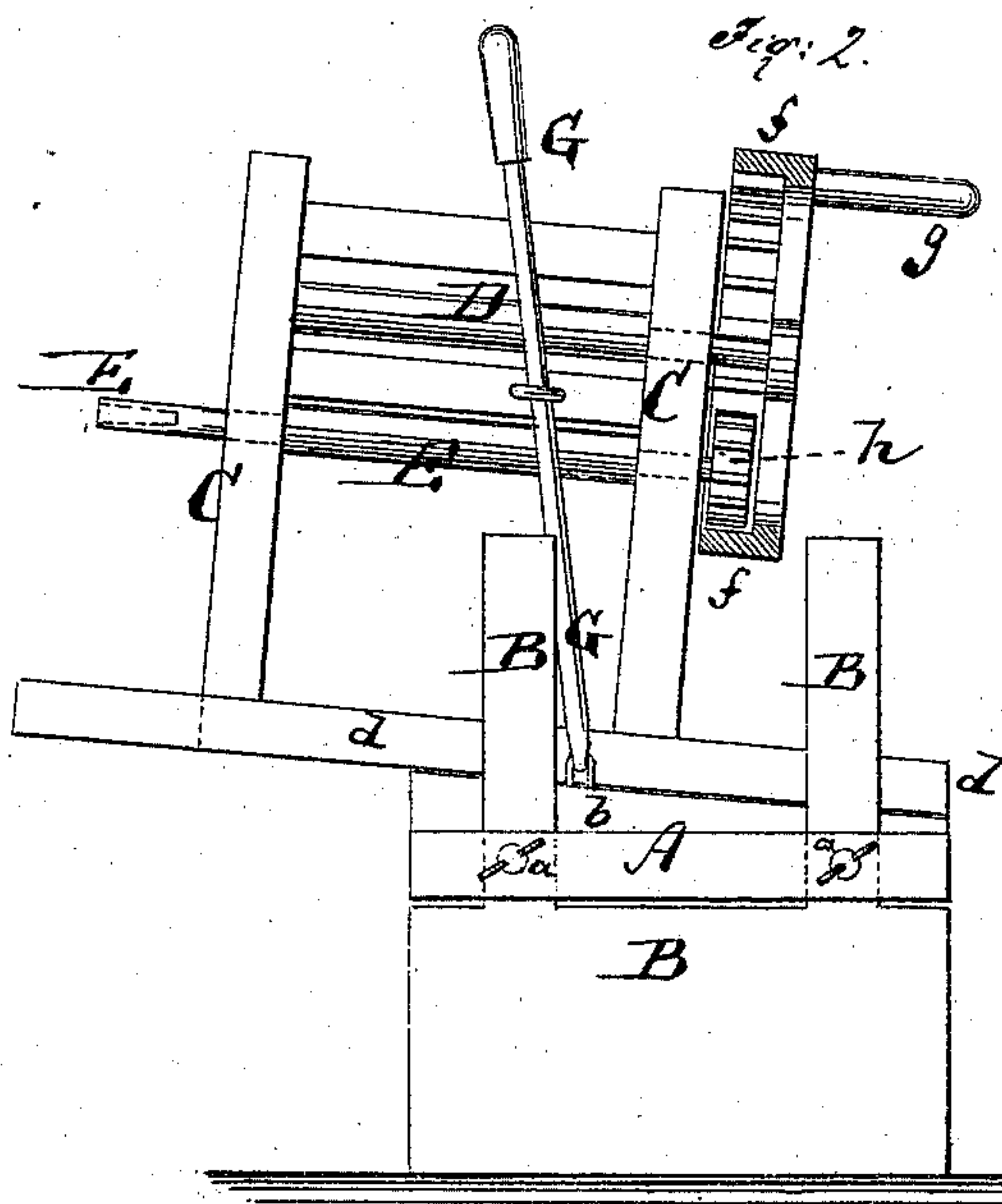
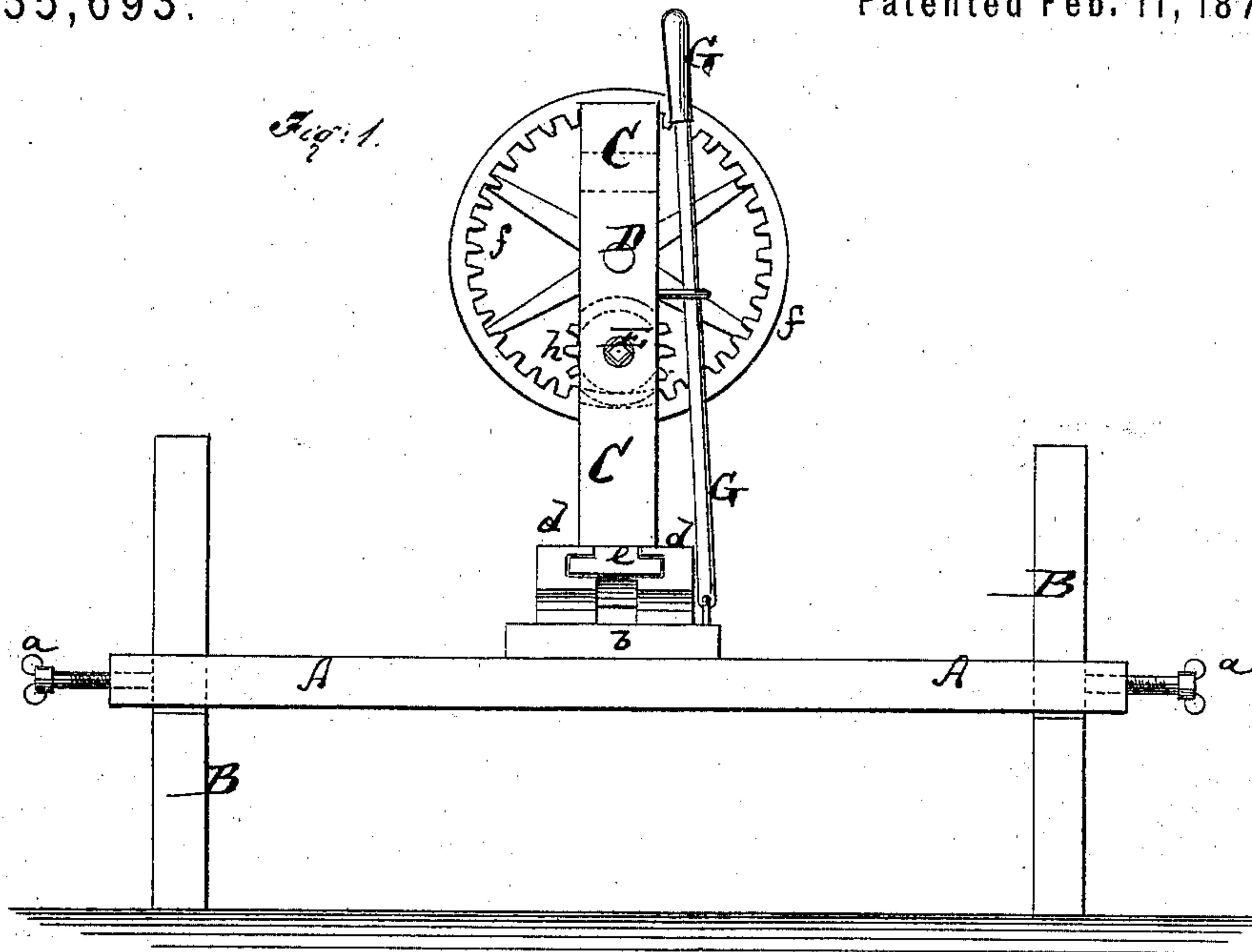


I. CORY.

Boring Machines.

No. 135,693.

Patented Feb. 11, 1873.



Witnesses:

Chas. Nida
Chaquier

Inventor:

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PER

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UNITED STATES PATENT OFFICE.

ISAAC CORY, OF DALTON, INDIANA.

IMPROVEMENT IN BORING-MACHINES.

Specification forming part of Letters Patent No. **135,693**, dated February 11, 1873.

To all whom it may concern:

Be it known that I, ISAAC CORY, of Dalton, in the county of Wayne and State of Indiana, have invented a new and Improved Boring-Machine, of which the following is a specification:

Figure 1 is a side elevation, and Fig. 2 an end elevation of my improved tree-borer.

Similar letters of reference indicate corresponding parts.

The object of this invention is to produce a boring-machine whereby trees whose sap is to be obtained in the manufacture of sugar, turpentine, resin, or for other purposes, can be conveniently tapped; and the invention consists in applying a rotary tool or auger to a movable frame, which can be fed against and toward the tree while the auger is being rapidly revolved by hand or other means.

In the drawing, the letter A represents the supporting-platform of the frame, held in a horizontal position by means of standards or legs B B, on which said legs the platform may be vertically adjusted and secured at suitable height by means of set-screws *a*, keys, or other devices. C is a frame supported on the platform A, and laterally movable thereon.

For ordinary purposes I prefer to slightly incline the frame C, in manner shown in Fig. 2, by placing it on a wedge-shaped block, *b*, that rests on the platform A, or, still better, by rabbeting it between inclined rails *d* that are rigidly secured to the platform A, and support the lower rail *e* of the frame C, allowing the

same to be laterally moved even beyond the extent of the platform A.

In the frame C are the bearings of two shafts, D and E. To one end of the shaft D is attached a gear-wheel, *f*, with inner teeth, and with a crank-handle, *g*. This wheel *f* gears into a pinion, *h*, that is mounted upon the end of the shaft E. The other end of the shaft E, which projects from the frame C, carries the boring-tool to be used. G is a lever pivoted to the platform A, and connected with the movable frame C in such manner that by means of such lever the frame C can be moved backward and forward.

In operation this borer is placed against the tree, its height regulated in the required manner, and the handle *g* then revolved, and at the same time the tool fed against the tree by means of the lever G, until the tree has been bored to the required extent.

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

A portable tree-tapping machine, consisting of platform A and legs B, adjustable with respect to each other by screws *a*, the inclined frame C movable therein, and provided with boring mechanism D E *f g h*, and the lever G, all constructed, arranged, and adapted to be used as set forth.

ISAAC CORY.

Witnesses:

CHENIAH COVATH, Sr.,
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