

*Davis & Punchus,
Stump Elevator.*

N^o 31,228.

Patented Jan. 29, 1861.

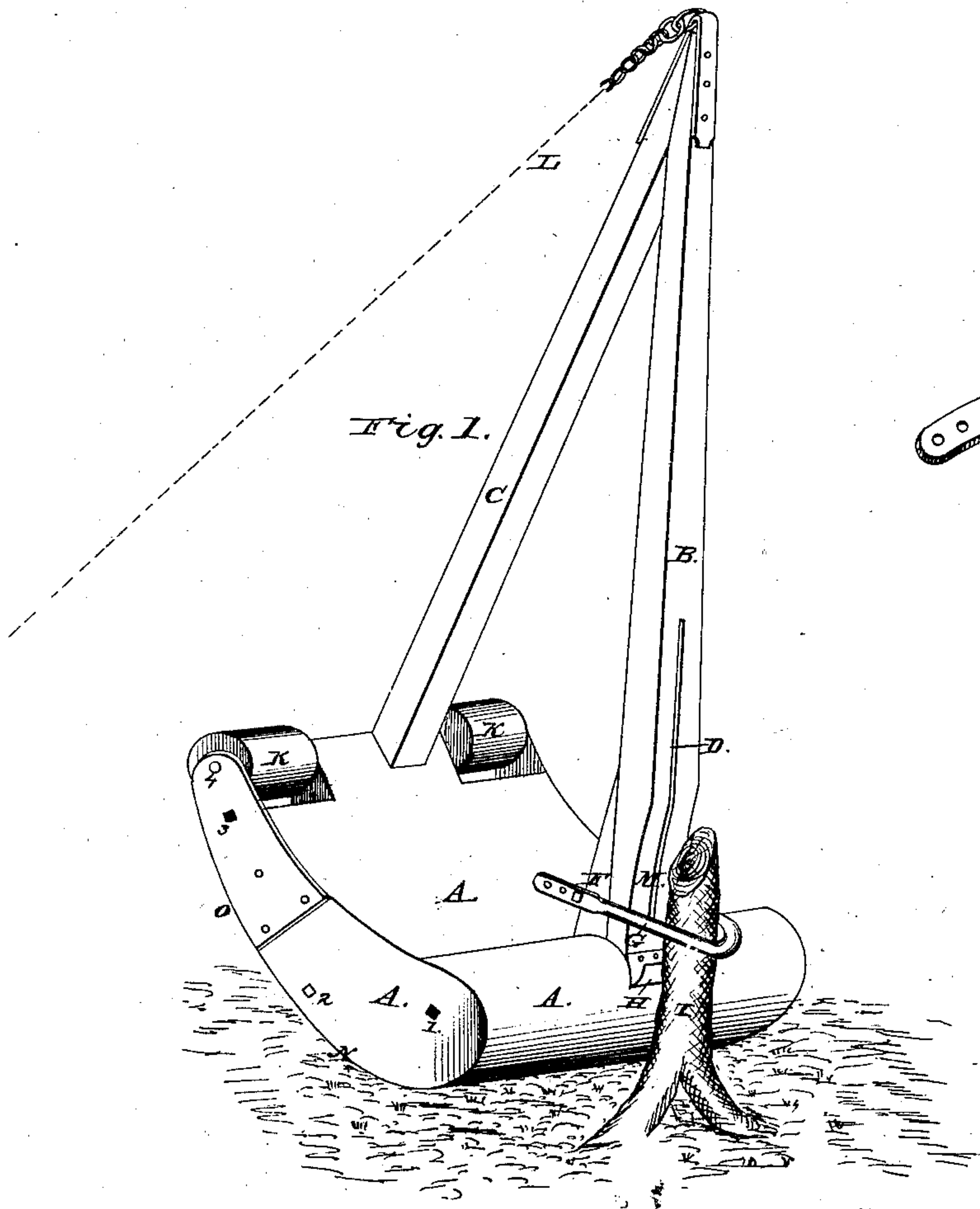
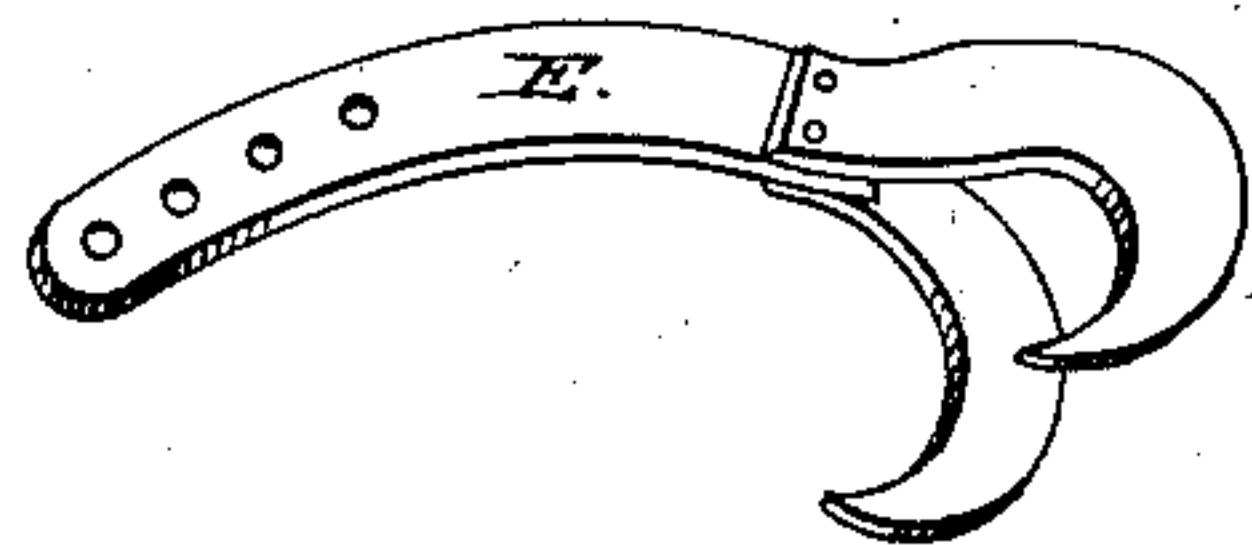


Fig. 2.



*Witnesses:
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UNITED STATES PATENT OFFICE.

T. G. DAVIS AND J. PUNCHUS, OF ELKHART, INDIANA.

STUMP-EXTRACTOR.

Specification of Letters Patent No. 31,228, dated January 29, 1861.

To all whom it may concern:

Be it known that we, THOMAS G. DAVIS and JOSHUA PUNCHUS, of Elkhart, in the county of Elkhart, in the State of Indiana, have invented a new and useful machine for removing stumps, grubs, roots, &c., from the earth and also to be used in drawing spikes and bolts of iron from railroad-ties and other timber; and we do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the annexed drawings of the machine as a part of said specification.

Letters A, A, A, is the anchor or fulcrum, which fulcrum is a combination (in form) of a circle and oval, the circle gives power to start the grub or stump, while the oval being farthest from the grub performs the work much quicker than the true circle would and also performs the work where the least power is required.

Letter B is the main lever attached to the back of anchor or fulcrum. "C" the front or supporting lever attached to the front of anchor or fulcrum, between the rollers and connected at the top with the main lever by a clasp of iron firmly bolted.

D is a slit in the center of main lever to be used for inserting the hooks marked E on the drawing or plat, which said hook is intended for pulling, small grubs and roots, also stool grubs, when the top or stump is off, even with the surface of the earth.

F is a wedge attached to the lower end of main lever B with iron on the front side to prevent the clevis pin from bruising the same, and is used for adjusting the hitching part of the machine to any sized grub or stump, as will be readily seen by the drawing. G the clevis, it is made beveled to an edge on the under side of the turn in order

to prevent slipping while on the grub, said clevis is assisted by the bit on check iron, on the main lever at the lower end, and marked H, which iron with the clevis and wedge together with the concave in the main lever marked M, form a perfect grab or bite so that it is impossible for the machine to slip off the grub.

I is the stump or grub—"K" "K" rollers on the front of anchor, to prevent the same from plowing into the earth while getting about from one stump to another &c. L the chain hooked into a ring at the top of levers and thence to the team. One yoke of oxen will pull green grubs from three to six inches in diameter and all free from the earth with ease; and from thirty (30) to sixty (60) of them an hour have been drawn with this machine.

One man can handle this machine as easy as he can a wheel-barrow, on the same ground.

N is the circular part of anchor or fulcrum.

O is the oval part of anchor or fulcrum. No. 1, 2, 3 heavy iron bolts to strengthen the fulcrum. No. 4 the axle for rollers.

The mode of working this machine is readily perceived by a glance at the drawings and model.

We claim as our invention—

The elliptic fulcrum "A" and framed lever B, C, constructed as described in combination with the adjustable clevis G or claw hook E arranged and operating as set forth.

THOMAS G. DAVIS.
JOSHUA PUNCHUS.

Witnesses:

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