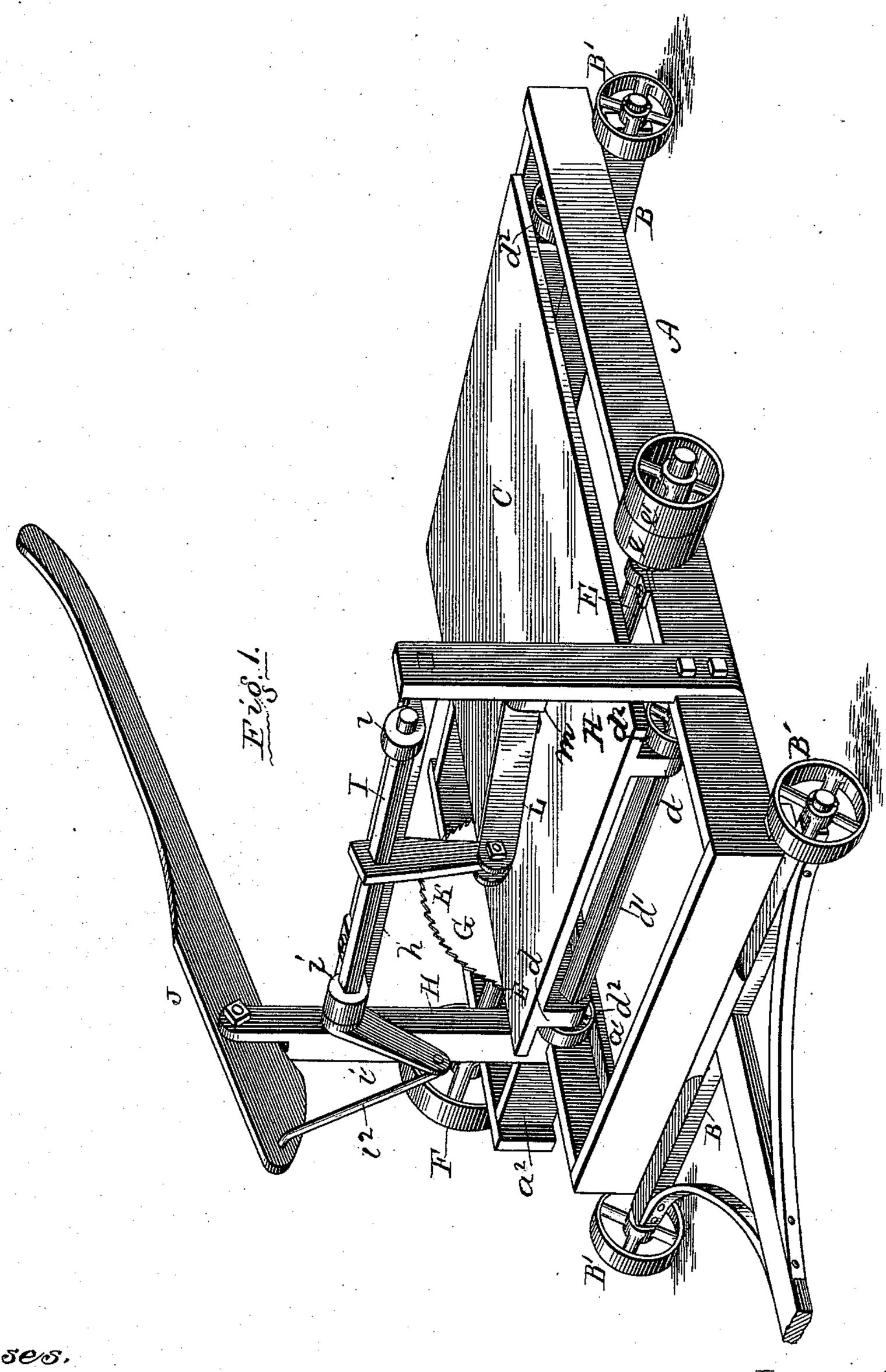
(No Model.) 2 Sheets—Sheet 1.

A. TANNER.

FIRE WOOD SAWING MACHINE.

No. 412,432. Patented Oct. 8, 1889.



Witnesses.
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H. W. Richards.

Inventor:
Amos Tanner,
By W. B. Richards,
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(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

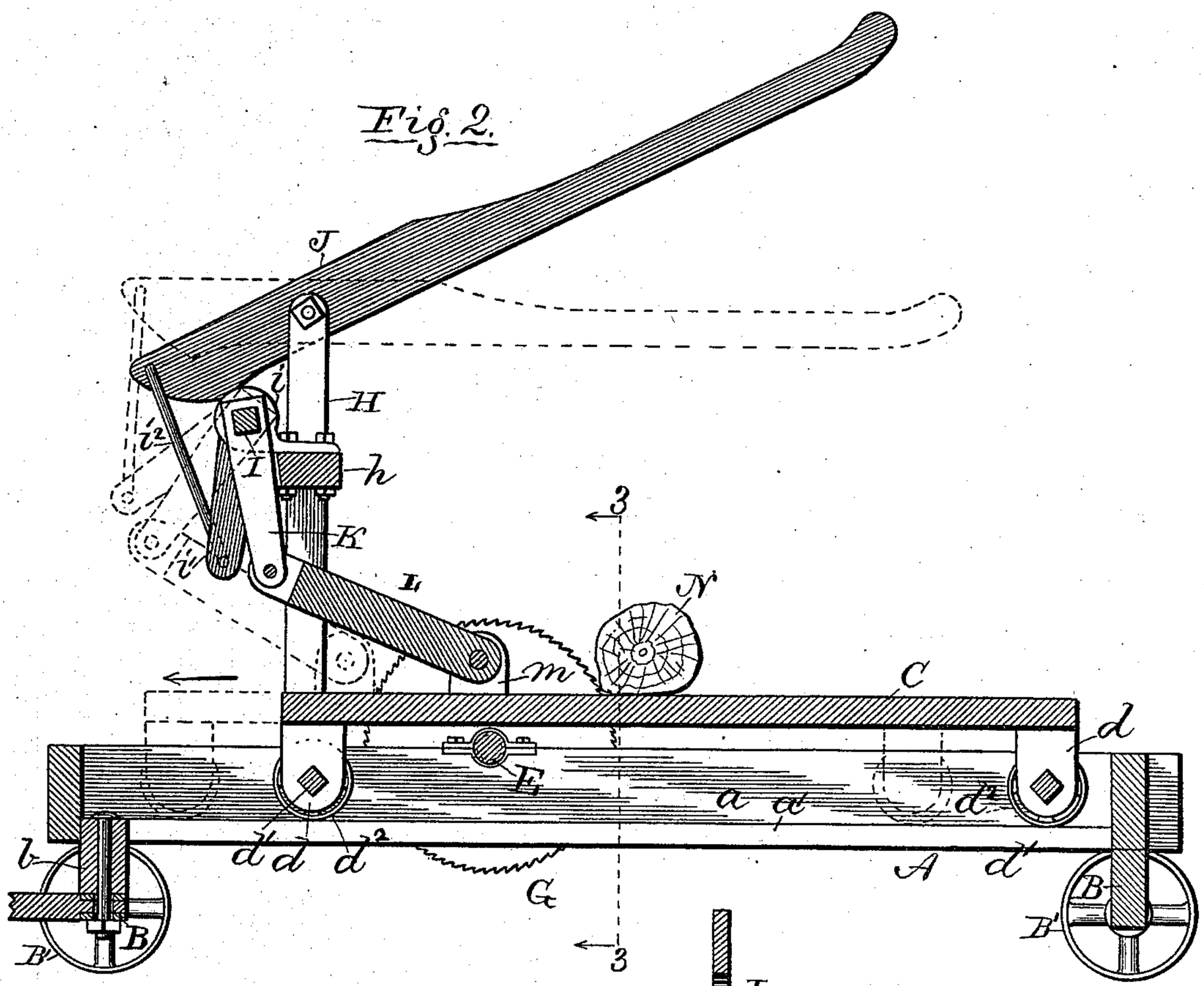
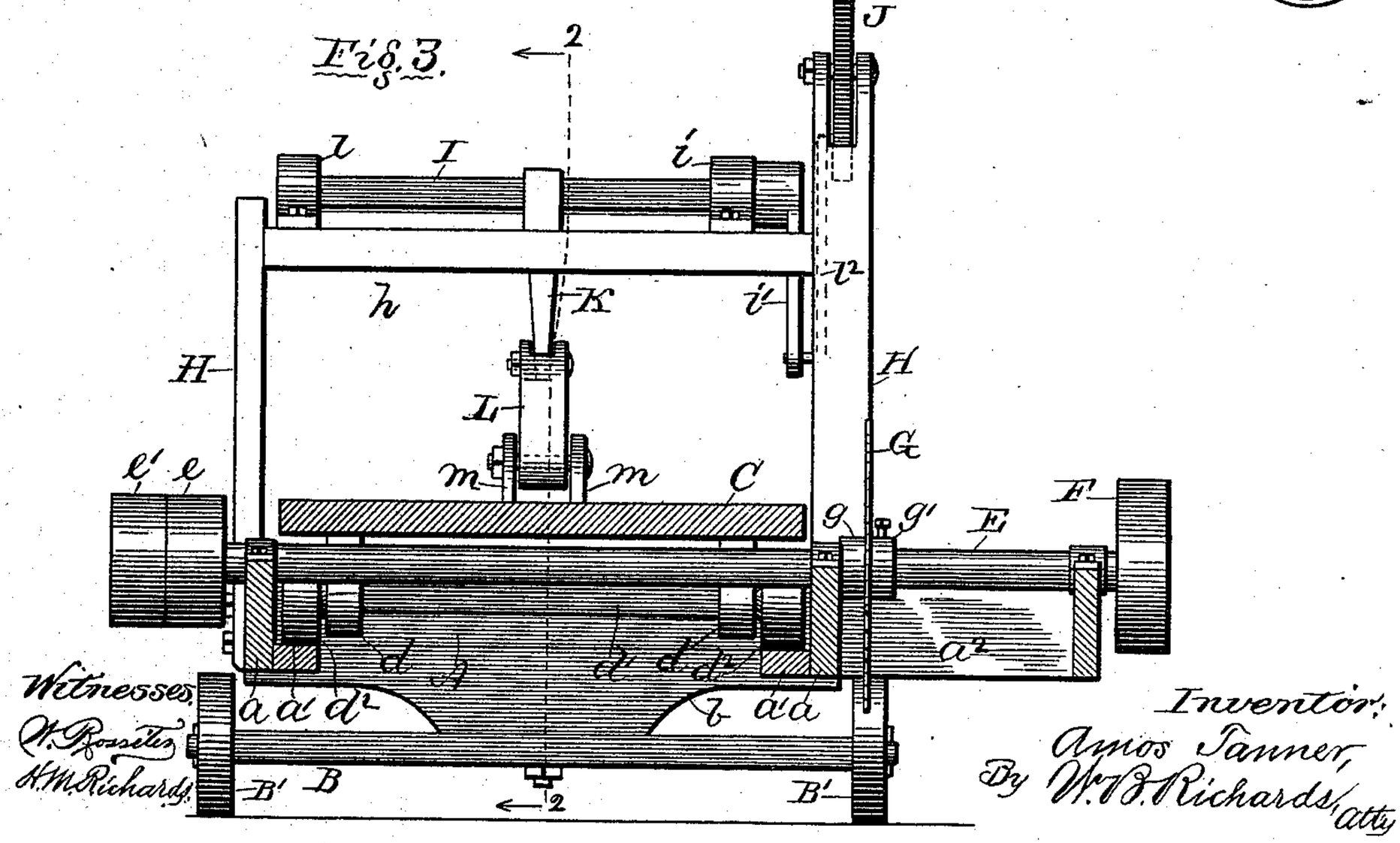


Fig. 3.



Witnesses:
R. Rossetter
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Inventor:
Amos Tanner,
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UNITED STATES PATENT OFFICE.

AMOS TANNER, OF TRURO, ILLINOIS.

FIRE-WOOD-SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 412,432, dated October 8, 1889.

Application filed March 18, 1889. Serial No. 303,706. (No model.)

To all whom it may concern:

Be it known that I, AMOS TANNER, a citizen of the United States, residing at Truro, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Fire-Wood-Sawing Machines, of which the following is a specification.

This invention relates to machines for sawing fire-wood; and the invention consists in constructions and combinations hereinafter described and claimed.

In carrying out my invention certain novel means are employed, which are shown in the accompanying drawings, in which—

Figure 1 is a perspective; Fig. 2, a sectional elevation in the line 2 2 in Fig. 3; Fig. 3, a sectional elevation in the line 3 3 in Fig. 2.

In the several figures of the drawings the same letter indicates the same part.

The frame A, which supports the working parts, is rectangular and rests upon axles B, upon which it may be readily moved from place to place. The front axle is provided with a bolster *b*, to facilitate turning the carriage. On the inner sides of the side pieces *a* of the frame A are ledges or ways *a'*. The wood-carrier plate C is of metal with lugs *d* integral therewith and pendent therefrom, in which the axles *d'* have bearings. Supporting-wheels d^2, for the carrier-plate C, are journaled on the axles *d'* and run upon the ways *a'*. The carrier-plate C is held above the frame A by its supports.

Beneath the carrier-plate C, and journaled on the side pieces *a* and on an auxiliary frame a^2, which is fixed to and projects from the frame A, is a shaft E, upon one end of which is mounted a drive-pulley *e*, which may receive motion from horse-power or any other suitable power. A loose pulley *e'* is located at one side of the pulley *e* for the usual purpose. On the opposite end of the shaft E from the pulley *e* is a balance-wheel F. A circular saw G is fixed by collars *g g'* on the shaft E at one side of the frame A. A standard H projects upwardly from each bar *a* a short distance from the shaft E, and these standards are connected near their upper ends by a bar *h*. A shaft I is journaled in brackets *i*, which are fixed to and project from the bar *h* and carries on one of its ends a crank-arm *i'*, which is connected by a link-rod i^2 with a lever J, which is fulcrumed in the upper extended end of one of the standards H. Another crank-arm K projects downwardly from the mid-length portion of the shaft I, to which a link-rod L is hinged or pivoted, the other end of which is pivoted between lugs *m*, which project upwardly from and are integral with the carrier-plate C.

In operation, the carrier-plate being in position, as shown by full lines at Fig. 2, the stick of wood N is placed in position upon and across it near the saw, as shown at same figure. The longer end or handle of the lever J is then taken hold of and drawn downwardly, which operation will move the carrier-plates in the direction shown by the arrow at Fig. 2, and thereby draw the stick of wood toward the saw. The operator can regulate the rate of velocity of the carrier-plate to the rate of cutting by the saw, and at any time while cutting through the stick of wood should any difficulty or accident arise he can raise the lever-handle and back the wood from the saw. After the stick of wood is cut through, the lever-handle is raised to back the carrier-plate and place a stick of wood again in position thereon for sawing, as hereinbefore described.

The foregoing-described construction furnishes a cheap, simple, very strong, and effective machine for the purpose of sawing fire-wood.

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

1. In a fire-wood-sawing machine, in combination with a carrier-frame supported on wheels which run on ways on a main frame, a lever J on said frame, shaft I and its supports, and having crank-arms *i'* and K, a link i^2, connecting the lever J and crank *i'*, and a carrier-plate connected with crank K by a link L, substantially as described.

2. In a fire-wood-sawing machine, in combination with a main frame and a carrier-frame located thereon, a shaft I, carried on a bar *h*, which is supported on standards H, crank-arm *i'*, link i^2, and lever J, and crank-arm K, and link L, which connects it with the carrier-frame, substantially as described, and for the purpose specified.

3. In a fire-wood-sawing machine, in com-

bination with a frame A, mounted on wheels, and having side bars a, with ways a', the carrier-plate C, having wheels d^2, and lugs d and m integral therewith, the shaft I, journaled in brackets i, which project from a bar supported on standards H, and provided with a crank i' and link i^2, which connects said crank with a lever J, a crank K, and link L, which connects it with lugs m, integral with the carrier-plate, and a saw G, fixed to a shaft E, which is journaled in the frames A and a^2, substantially as described, and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

AMOS TANNER.

Witnesses:
WILLIAM WORDSWORTH,
B. F. SHAFFER.