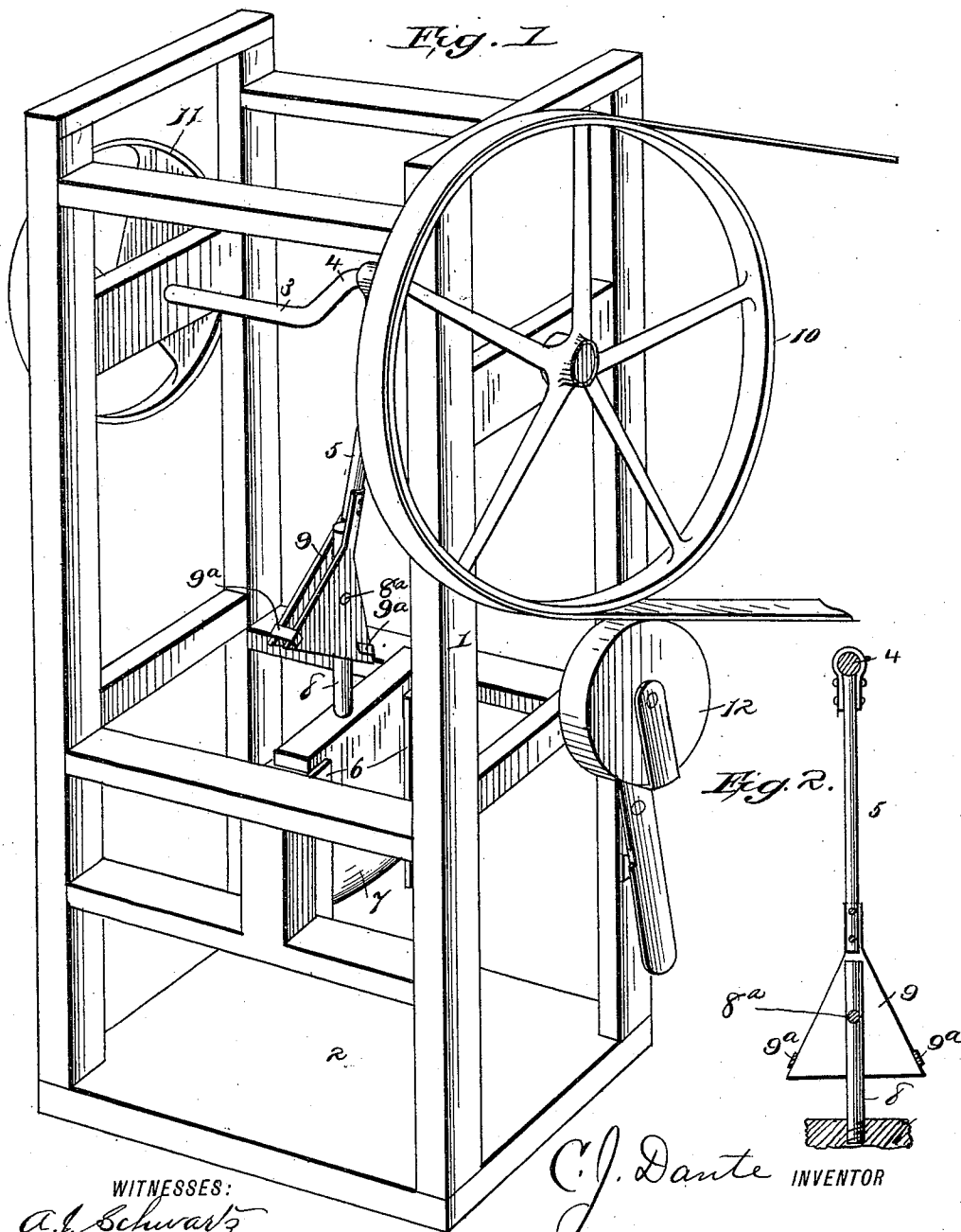


(No Model.)

C. J. DANTE.
WOOD SPLITTING MACHINE.

No. 470,104.

Patented Mar. 1, 1892.



WITNESSES:
A. J. Schwartz
C. S. Frye

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UNITED STATES PATENT OFFICE.

CHARLES JAMISON DANTE, OF HILLSBOROUGH, OREGON.

WOOD-SPLITTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 470,104, dated March 1, 1892.

Application filed May 2, 1891. Serial No. 391,391. (No model.)

To all whom it may concern:

Be it known that I, CHARLES JAMISON DANTE, a citizen of the United States, residing at Hillsborough, in the county of Washington and State of Oregon, have invented certain new and useful Improvements in Wood-Splitting Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists in a new and improved wood-splitting machine for splitting kindling-wood for cook or other stoves.

The invention will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a perspective view of my new and improved wood-splitting machine. Fig. 2 is a detail vertical section.

The same numerals of reference indicate corresponding parts in the several figures.

Referring to the several parts by their designating-numerals, 1 indicates the upright supporting-frame of the machine, which is mounted on a suitable base 2. In the upper part of this machine is mounted transversely a crank-shaft 3, formed with a central crank 4, to which is pivotally connected the upper end of a pitman 5.

At a suitable distance from the lower end of the machine are secured the two vertical flanged guideways 6 6.

7 indicates the splitting-blade, the general shape of which resembles that of an ax-blade. This blade moves vertically between the guideways 6, its longitudinal edges sliding in the same, as shown. In the head or upper end of the blade is screwed or otherwise secured the lower end of a steel shaft or bar 8. To the lower end of the pitman 5 is rigidly secured the flat hollow Y-shaped cross-head 9, in which is journaled the lateral trunnions 8^a of the bar 8. The flat cross-head is composed of two parallel metal plates or castings, the reduced upper ends of which are secured to the lower end of the pitman and the lower

corners of which are connected by the fixed straps 9^a. Upon one end of the crank-shaft 3 is mounted a large band-wheel 10, around which takes a drive-belt, although the size of the wheel may of course be varied. On the other end of the crank-shaft is secured a balance-wheel 11, and one of the sections of this wheel is left solid to impart power to the ax in going through the wood. It will be seen that in operation as the drive-wheel 10 is revolved the cutting-blade 7 will be reciprocated vertically with sufficient power to quickly and easily cut or split the wood placed beneath it. The drive-wheel is usually driven at the rate of thirty revolutions per minute.

At the side of the machine-frame is pivotally mounted the band-tightener 12, by moving which the pressure of the drive-belt on the band-wheel 10 can be increased or lessened.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that my wood-splitting machine, while simple and strong in its construction, is exceedingly effective in its operation.

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

In a wood-splitting machine, the combination, with the main frame, the crank-shaft journaled therein, the pitman pivotally connected at its upper end to the crank branch of the shaft, and the cross-head comprising the parallel Y-shaped plates fixedly connected to the lower end of the pitman and fixedly connected together, of the splitting-blade and the shaft or bar fixedly connected at its lower end to the splitting-blade and having lateral trunnions journaled in the parallel plates of the cross-head, all substantially as and for the purpose set forth.

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

CHARLES JAMISON DANTE.

Witnesses:

W. J. RICE,
C. W. BURNS.