

(No Model.)

J. W. STOKOE.

FEED MECHANISM FOR SAW MILL CARRIAGES.

No. 307,348.

Patented Oct. 28, 1884.

Fig. 1.

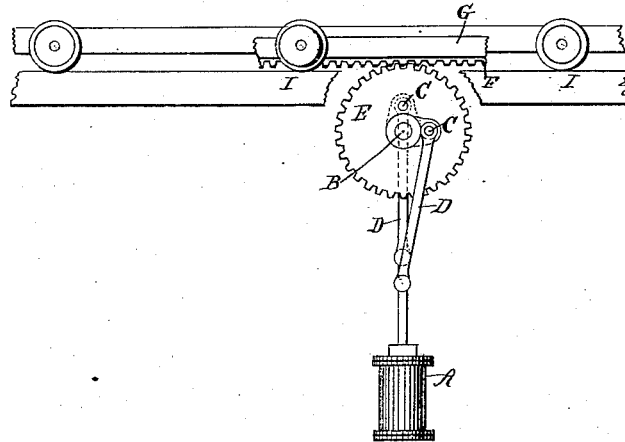
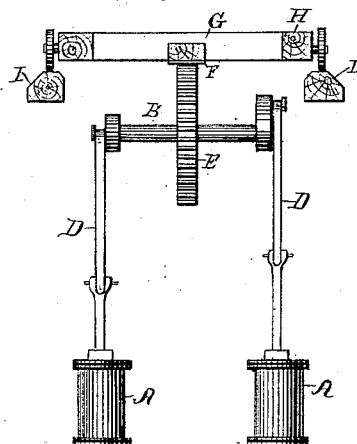


Fig. 2.



Attest:

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Inventor:

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By *Thos. S. Sprague*
att'y.

UNITED STATES PATENT OFFICE.

JOHN W. STOKOE, OF MANISTEE, MICHIGAN, ASSIGNOR TO N. W. NELSON,
OF SAME PLACE, AND MATTIE J. STOKOE, OF JEANERETTE, LOUISIANA.

FEED MECHANISM FOR SAW-MILL CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 307,348, dated October 28, 1884.

Application filed June 9, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. STOKOE, of Manistee, in the county of Manistee and State of Michigan, have invented new and useful
5 Improvements in Saw-Mill-Carriage Feeds; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to certain new and useful improvements in devices for giving the necessary reciprocating motions to saw-mill carriages; and the invention consists in the peculiar construction, combination, and operation of the various parts, as more fully hereinafter described.

Figure 1 is a side elevation showing the engines situated upon the ground-floor of the mill and the carriage upon the operating-floor.

20 Fig. 2 is an end view of the same.

In the accompanying drawings, A A represent a pair of vertical engines, both of the same dimensions and capacity, suitably secured below the operating-floor of the mill.

25 B is a shaft running in suitable bearings, which may be supported from the operating-floor of the mill or from below, as circumstances or discretion may dictate. This shaft is situated immediately above the two engines, and at each end it is provided with a crank and pin, C, the one at one end being set quartering to the one at the opposite end, and these cranks are connected by suitable rods, D, to the pistons of their respective engines. Centrally
30 secured upon this shaft is a spur-wheel, E, preferably made of steel, on account of the lesser liability to accident, although it may be made of cast-iron, if preferred. This wheel meshes into and engages with a rack, F, secured by a central longitudinal rack-stick, G,
40 to the carriage H.

I represents the timbers of the operating-

floor of the mill, upon which the carriage travels upon a suitable track, in the usual manner.

The engines are independent reversible engines, and arrangements such as are usually employed for the purpose are made for reversing by the sawyer on the operating-floor of the mill.

50 I am aware that it has been proposed to move a saw-carriage by means of two vertical shafts carrying pinions which mesh with a rack on the under part of the carriage; but in all such constructions, so far as I am aware, motion has been derived from a single engine, and I therefore make no claim to such construction.

I am also aware of Patent No. 176,409, and make no claim to the construction shown
60 therein.

I attach importance to the use of two engines, for their use allows of the crank-connections being set quartering, thereby making provision for overcoming a dead-center, which
65 is an important feature in devices of this kind.

What I claim as my invention is—

In combination with a reciprocating saw-carriage having rack F, facing downward and centrally secured thereto, a pair of independent reversible engines, A, connected directly
70 to a shaft, B, journaled in suitable bearings, said shaft being provided with cranks C, set quartering on the opposite ends thereof, and connected with said engines by the rods D, and having centrally secured thereon the rack-wheel E, constructed and arranged to engage with the rack F, substantially as and for the purpose specified.

JOHN W. STOKOE.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.