

(No Model.)

L. G. ORME.

LOG ROLLER.

No. 354,171.

Patented Dec. 14, 1886.

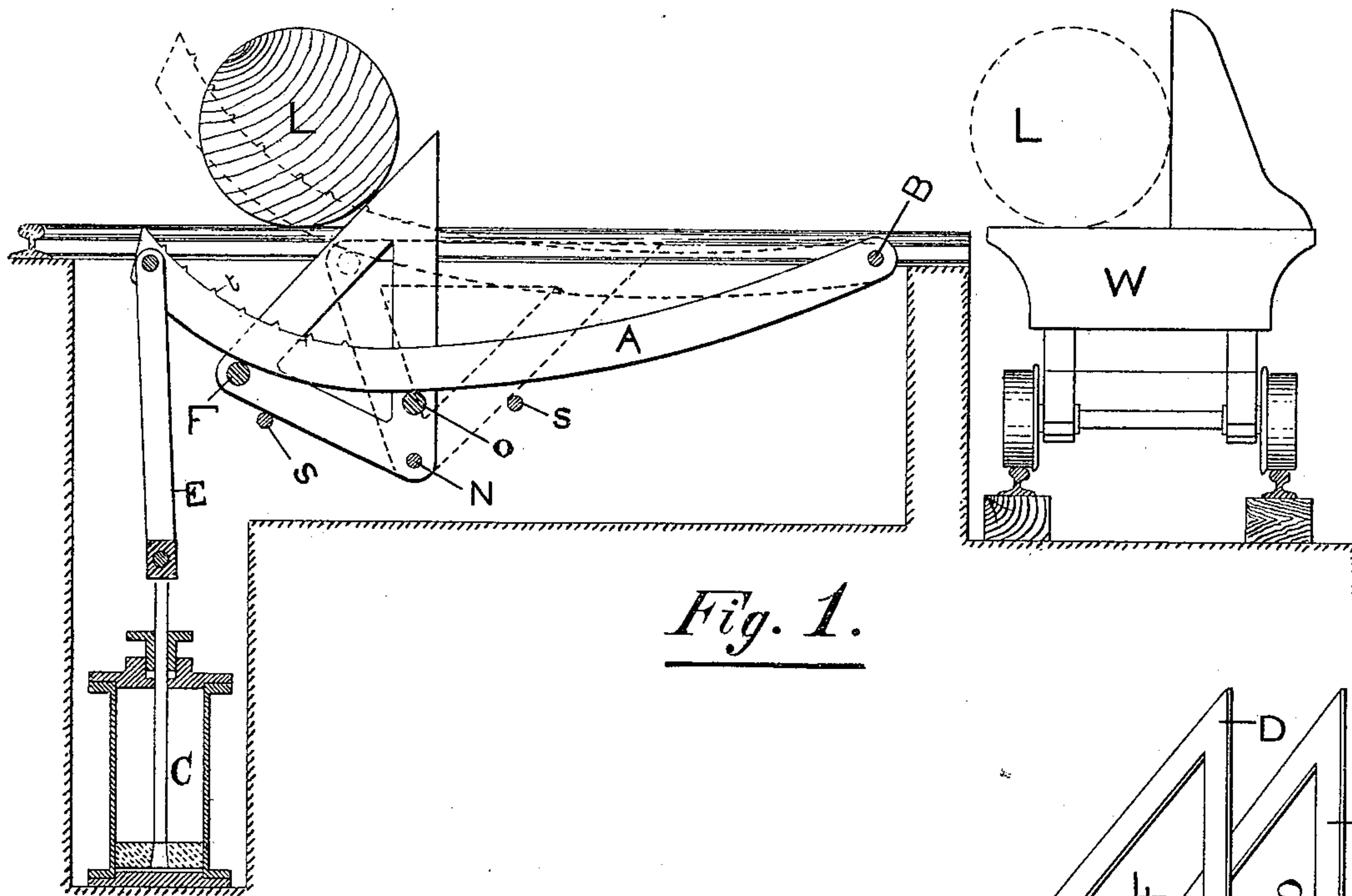


Fig. 1.

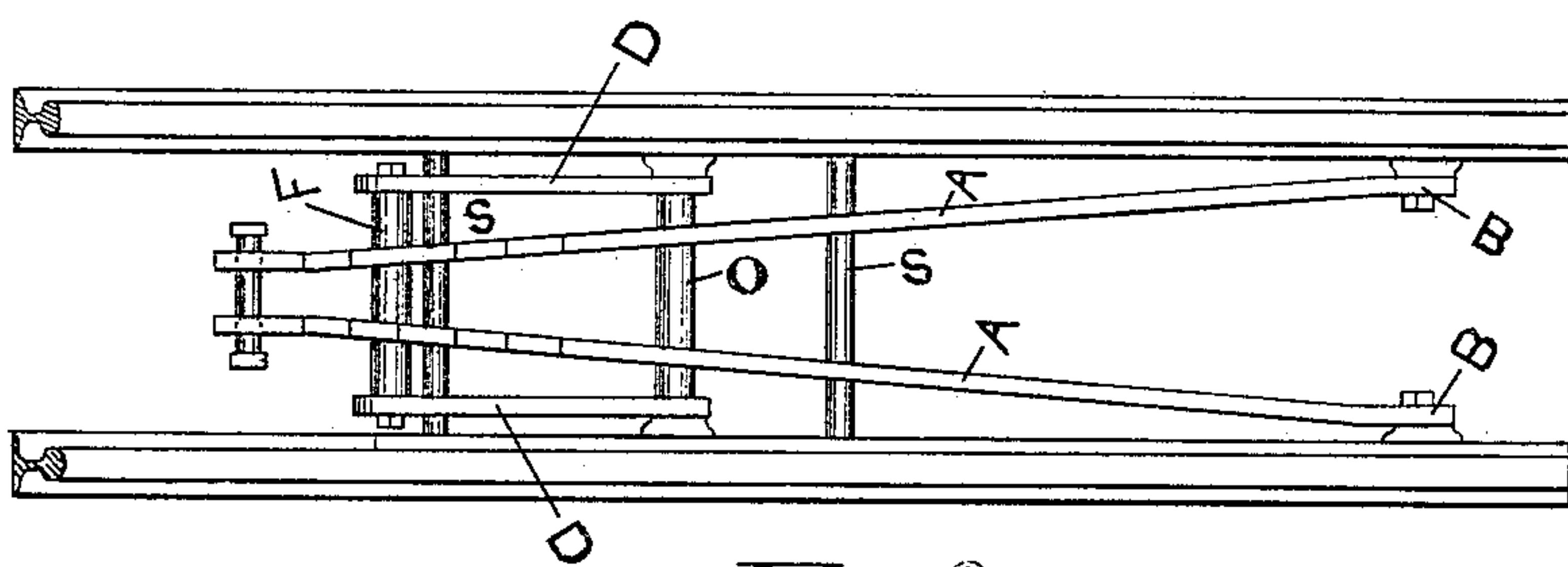


Fig. 2.

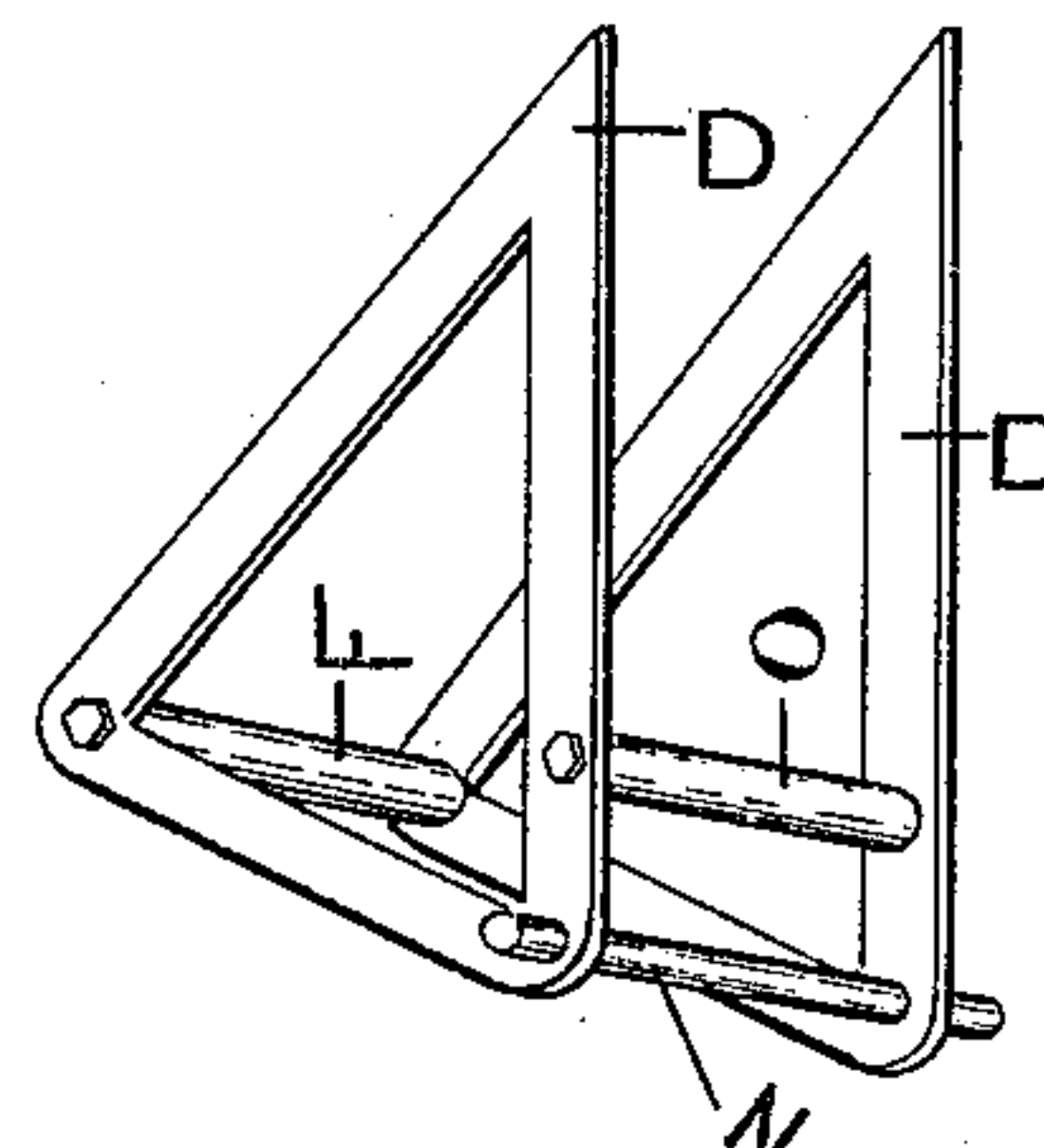


Fig. 3.

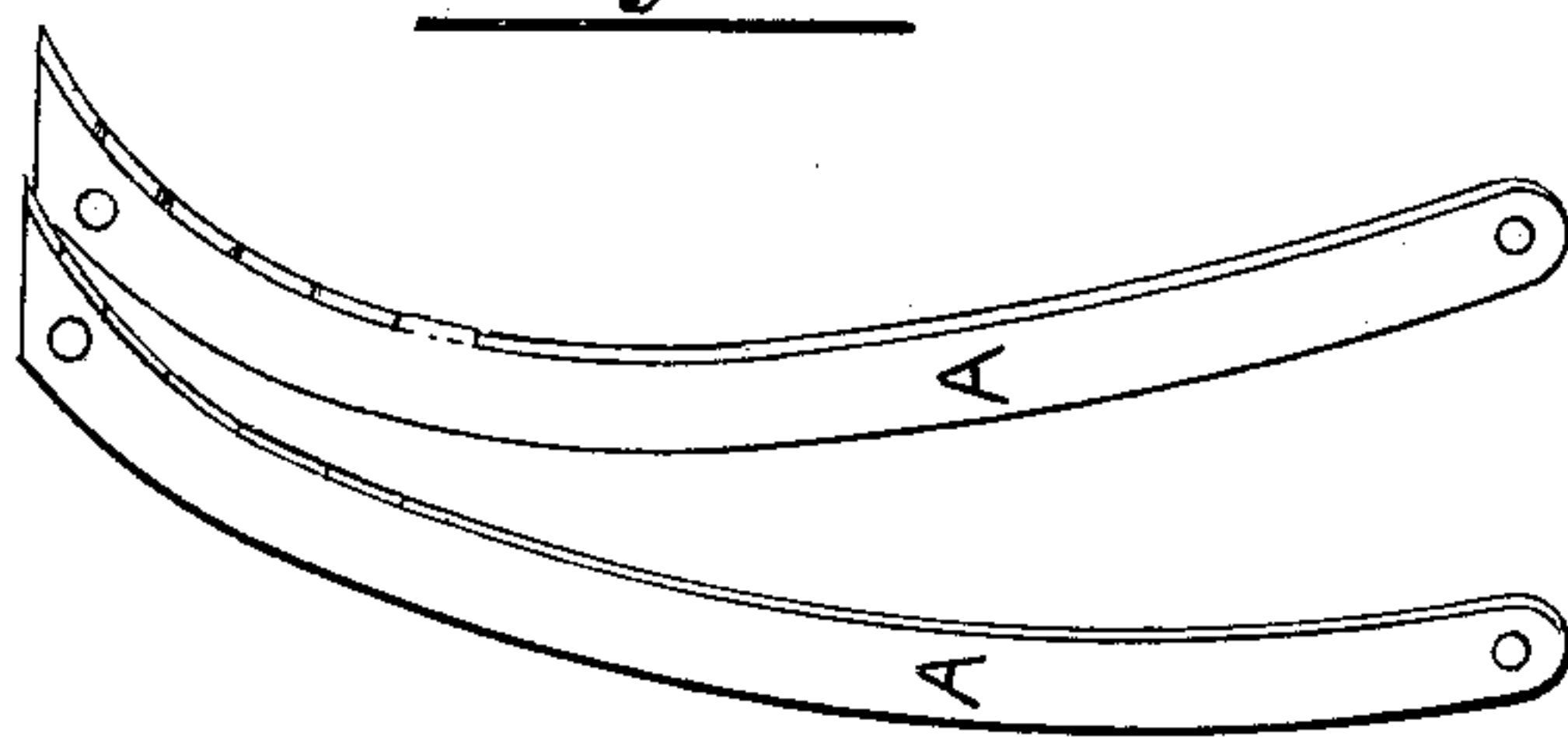


Fig. 4.

Witnesses:
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LINNÆUS G. ORME, OF PADUCAH, KENTUCKY.

LOG-ROLLER.

SPECIFICATION forming part of Letters Patent No. 354,171, dated December 14, 1886.

Application filed July 13, 1886. Serial No. 207,861. (No model.)

To all whom it may concern:

Be it known that I, LINNÆUS G. ORME, a citizen of the United States, residing at Paducah, county of McCracken, State of Kentucky, have invented a new and useful Machine to be Used in Connection with a Saw-Mill, of which the following is a specification.

The object of this invention is to "scotch" the logs on deck and transfer them to saw-carriage. I attain these objects by means of the mechanism illustrated on accompanying drawings.

Figure 1 is a sectional elevation of entire machine, with an end view of saw-carriage. Fig. 2 is a plan of the machine. Fig. 3 is a perspective view of the scotch. Fig. 4 is a perspective view of the "arms."

Similar letters refer to similar parts throughout the different views.

The arms A A, bent in circular form, as shown, have teeth *t* formed on their top edges, are pivoted at B B, and are attached at their opposite extremity to a steam-cylinder or friction-bar.

A steam-cylinder, C, is shown in Fig. 1 connected to arms A A by connecting rod E.

The scotch D D oscillates on the shaft N. The ends of shaft N are carried in suitable bearings, one on each side. The sides of scotch D D are connected by round bars F and O.

S S are stops in position, as shown, to prevent the scotch D D traveling too far in either direction.

The arms A A and the scotch D D are shown in Fig. 1 in dotted lines in the position they assume when log L is started toward the saw-carriage W.

The action of this machine is as follows: The log L is shown in Fig. 1 resting upon the deck-rails. It is prevented from moving toward saw-carriage W by the scotch D D. Steam being admitted into cylinder C, the arms A A are forced upward, striking the log L. As soon as the arms A A commence to move upward, their weight, which was resting upon the bar F, is removed, and the scotch D D, being thus released and pivoting on N, falls below the top of deck-rail into position indicated by dotted lines, Fig. 1, leaving an unobstructed passage for the log L. The arms A A, first striking the log L, continue to rise until the end of stroke is reached, their top edges forming an inclined plane, upon which the log rolls onto the saw-carriage.

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

In a log-rolling device, a scotch, D D, composed of two triangular frames connected together and pivoted to the frame of the mill, in combination with the curved arms A A, having teeth formed on their upper edges to prevent the log from slipping, pivoted at one end to the mill-frame and engaging with the cross-bars of the scotch, and mechanism for oscillating said arms, with suitable stops connected to mill-frame to prevent the scotch from traveling too far in either direction, all substantially as described and set forth.

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