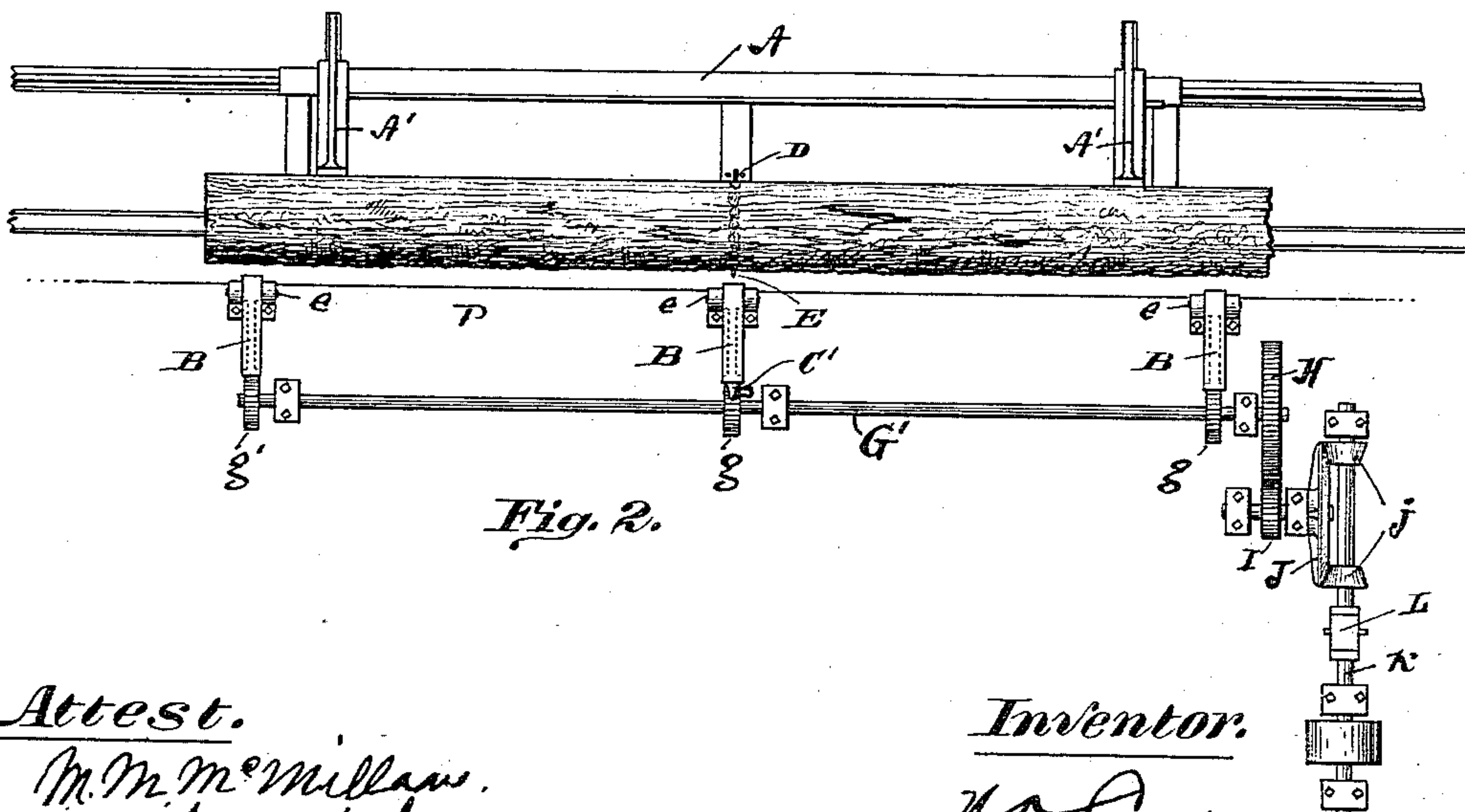
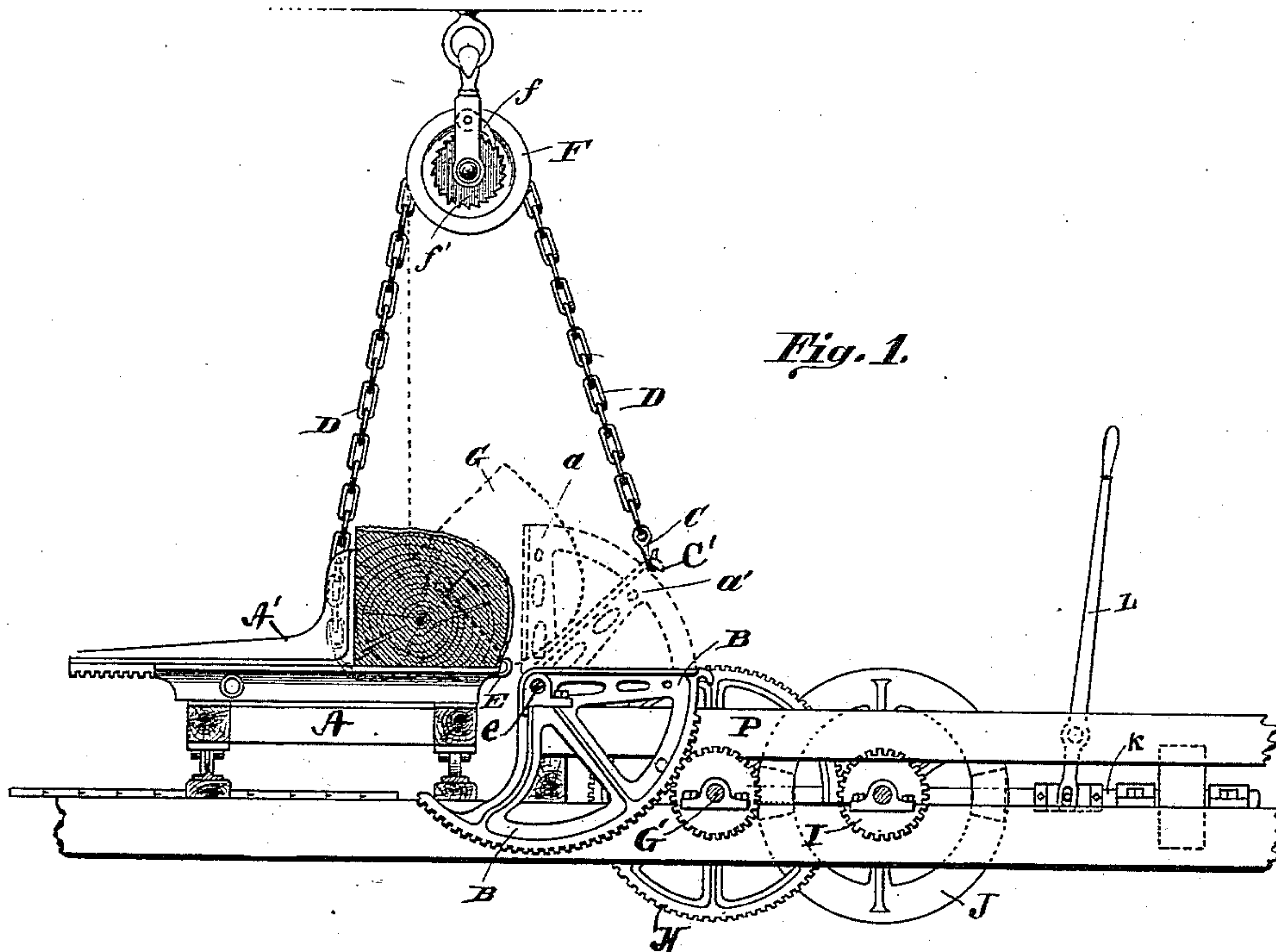


(No Model.)

W. D. LINK.
LOG CANTING DEVICE.

No. 379,403.

Patented Mar. 13, 1888.



Attest.

M. M. Millam.
M. Murphy.

Inventor.

W. D. Link.

UNITED STATES PATENT OFFICE.

WILLIAM D. LINK, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-FOURTH TO
BENJAMIN F. McMILLAN AND GEORGE W. ROBINSON, OF STOCKTON,
ALABAMA.

LOG-CANTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 379,403, dated March 13, 1888.

Application filed May 12, 1886. Serial No. 201,903. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. LINK, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Log-Canting Devices, of which the following is a specification.

My invention relates to devices for canting logs upon the saw-carriage and adjusting the same to the head-block for the sawing operation; and it consists in the devices hereinafter described, whereby the power of the mill is applied to this purpose in lieu of the manual power ordinarily employed.

In the drawings herewith, Figure 1 is an end view of the carriage and the log-canting mechanism, and Fig. 2 a plan view of the same.

Referring to the drawings, in aid of the description, A designates the log-carriage, A' the head-block, and G the log in position upon the head-block. Pivoted in a common axial line at the forward edge of the platform P, upon a shaft or separate pivots, *e*, are three arms, B, which I prefer to construct in segmental form, provided with a continuous series of cog-teeth at their peripheries, as shown, by means of which power is communicated to them simultaneously by spur-pinions *g* upon a counter-shaft, G', arranged in bearings parallel with the axial pivot-line of the arms. Power is given to the counter-shaft by spur-gears H I, governed as to direction of rotation by beveled friction-gears *j j*, engaging at opposite sides of a driven gear, J. The alternate engagement of the gears *j* is effected by longitudinally shifting the shaft *k*, on which the gears *j* are mounted, by a shifting-lever, L. The arms B thus described are used to assist the canting operation either with or without other power-driven devices. For example, the ordinary cant-hook may be employed to turn the log from the position indicated in full lines, Fig. 1, to that indicated in dotted lines, and then, while maintaining such position with the cant-hook, the arms are moved over from the position *a'* to the position *a*, (both the latter being indicated by dotted lines,) thus reseating the log against the head-block, exposing the uncut side to the saw. The ordinary overhead cant-chain may be also used as a substitute for the cant-hook in the same operation; but the entire operation may be effected by the power communi-

cated to the arms by the addition and co-operation of a chain, D, arranged to pass over a sprocket-wheel, F, hung as a pulley above the carriage, provided with a ratchet, *f'*, and dog *f*, of the usual construction. One end of the chain is provided with a hook or staple, E, to engage the log, and the other end with a loop, C, to engage a hook or stud, C', at the side or end of the center arm, B.

In this case, supposing the log to be in the position shown in full lines, the chain is brought around under the log and its hook or staple E is driven into the log, as indicated in Fig. 1. The arms B are then moved up to the position *a*, and the free end of the chain is engaged by its loop C upon the stud C', whereupon the arms B are receded to the position *a'*. This movement cant the log into the position shown by dotted lines, in which position it is maintained by the ratchet *f'* and dog *f*, holding the chain. While it is thus maintained the arms B are thrown forward again to the position *a*, and the log thus compelled to assume its new position against the head-blocks A'. The arms may be then receded to their normal position of rest, as at B'.

The constructive form of the arms B and of their actuating mechanism may be varied at will; but that shown and described is believed to answer best the demands of actual use.

I claim as my invention, and desire to secure by Letters Patent—

1. The combination, with the log-carriage and head-block, of the segmental arms B, provided with gear-teeth, the spur-gears *g*, counter-shaft G', the spur-gears H and I, and the friction-gear J and bevel-gears *j j*, engaging the same on opposite sides, substantially as described.

2. The combination, with the log-carriage, head-block, and pivoted segmental arms B, of the overhung pulley F, having ratchet *f'* and dog *f*, and the chain D, having one end attached to one of the segmental arms and its other end provided with a hook to engage the log, substantially as shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WILLIAM D. LINK.

Witnesses:

L. M. HOSEA,
C. D. KERR.