

W. E. HILL.
MACHINE FOR TURNING LOGS.

No. 106,160.

Patented Aug. 9, 1870.

Fig. 1

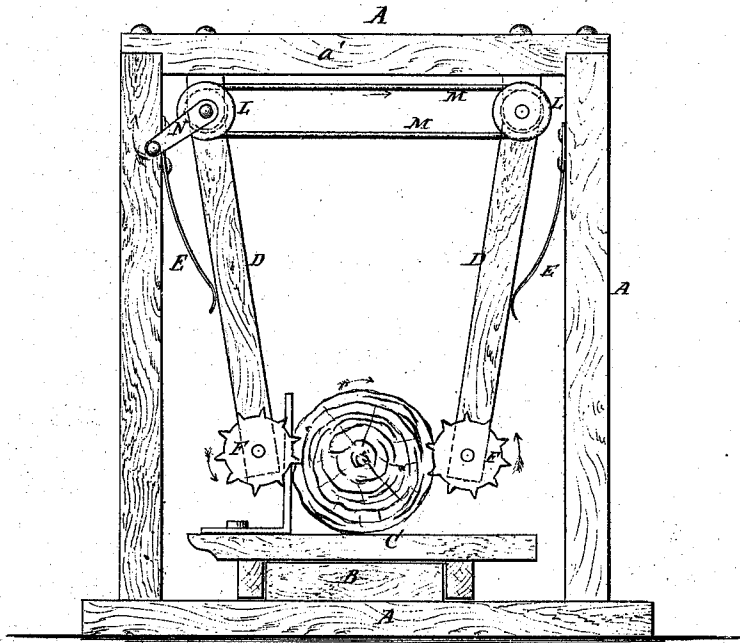
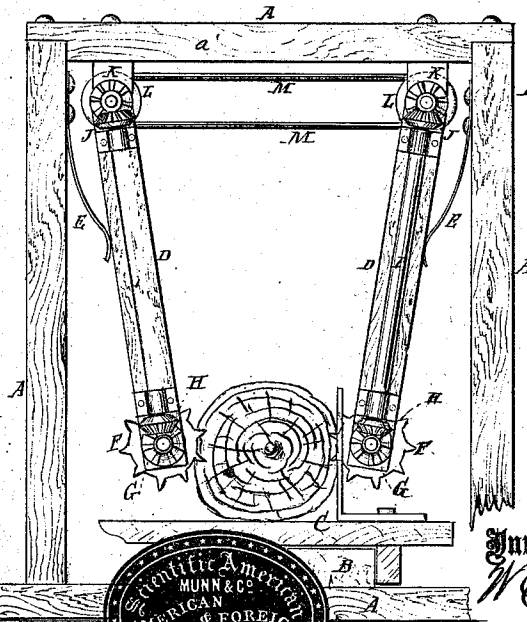


Fig. 2



Witnesses:
A. M. August
L. Schwabe

Inventor:
W. E. Hill
PER *Munn & Co.*
Attorneys.



United States Patent Office.

WILLIAM E. HILL, OF ERIE, PENNSYLVANIA.

Letters Patent No. 106,160, dated August 9, 1870.

IMPROVEMENT IN MACHINE FOR TURNING LOGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM E. HILL, of Erie, in the county of Erie and State of Pennsylvania, have invented a new and useful Improvement in Log-Turner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a front view of my improved log-turner.

Figure 2 is a rear view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a simple, convenient and effective device for turning logs and other timber upon the carriage of a saw-mill; and

It consists in the construction and combination of the various parts of the device, as hereinafter more fully described.

A represents the frame, B the way, and C the carriage of a saw-mill, about the construction of which parts there is nothing new.

D are two uprights, suspended from a cross-beam, *a*, of the frame A, in such a way that their lower ends may swing toward and from the log upon the carriage C, and which are held forward against said log by springs E, attached to the posts of the frame A, or to some other suitable and convenient support, and which press against the outer sides of the said suspended bars D; or, if desired, the bars D may be held forward to their places by weights.

To the lower ends of the bars D are pivoted two spur-wheels, F, in such positions that their teeth may bear against and take hold of the opposite sides of the log or other timber upon the carriage C.

The journals of the spur-wheels F pass through the lower ends of the bars D, and to their other ends are

attached small bevel-gear wheels G, the teeth of which mesh into the teeth of the small bevel-gear wheels H, attached to the lower ends of the shafts I. The shafts I extend up along the sides of the bars D, and revolve in bearings attached to said bars.

To the upper ends of the shafts I are attached small beveled gear-wheels J, the teeth of which mesh into the teeth of the small bevel-gear wheels K, attached to the ends of the journals of the pulleys L, which journals pass through and work in bearings in the upper ends of the bars D, or in the studs or other supports from which said bars are suspended.

The pulleys L are connected with a band, M, so that they may both revolve together.

Power may be applied to one or the other of the pulleys L by a crank, N, or by any other of the well-known means for the application of power. The device may be operated by hand power, or by the power that operates the mill.

By this construction, when power is applied to the device, the spur-wheels F will act upon the log or timber upon the carriage C, and will revolve the log or timber in one or the other direction, according to the direction in which the power is applied.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination of the swinging bars D, weights or springs E, spur-wheels F, bevel-gear wheels G H, shafts I, bevel-gear wheels J K, pulleys L, and band M, with each other, and with the frame and carriage of the saw-mill, substantially as herein shown and described, and for the purpose set forth.

WILLIAM E. HILL.

Witnesses:

H. M. REED,
GEO. P. GRIFFITH.