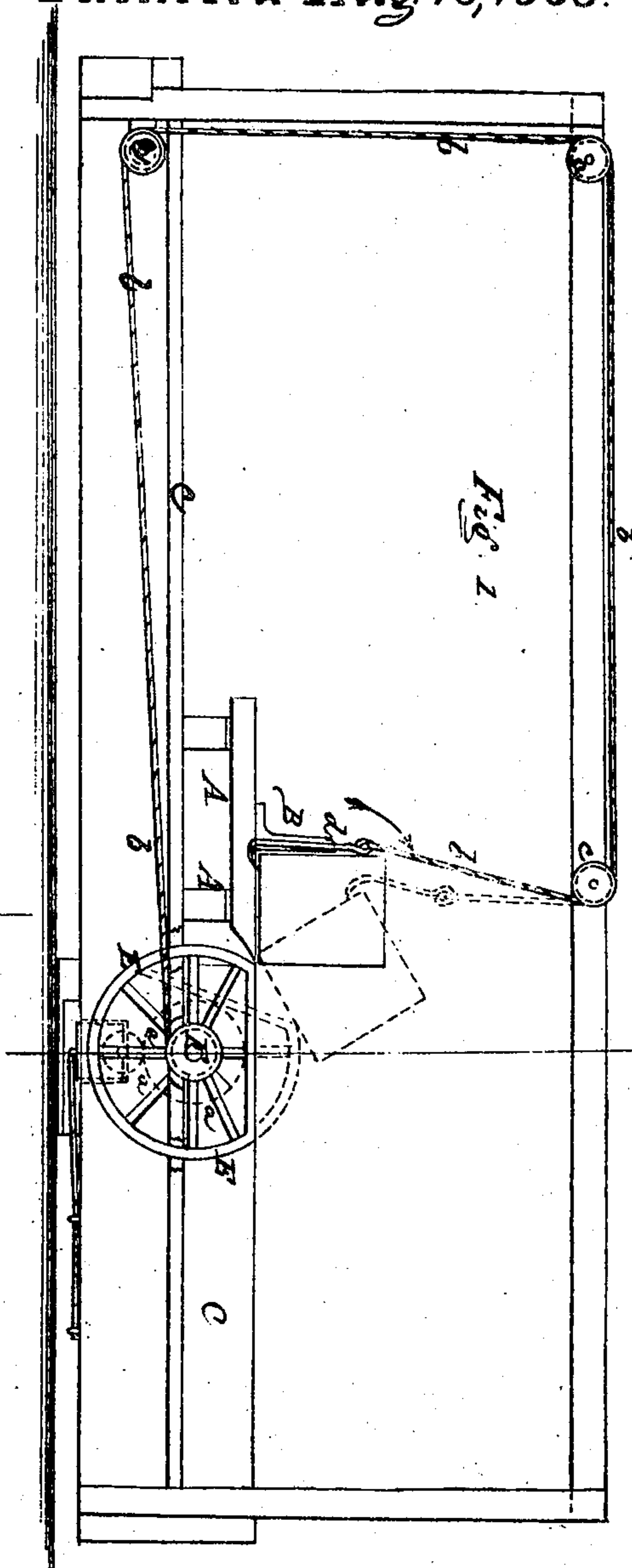
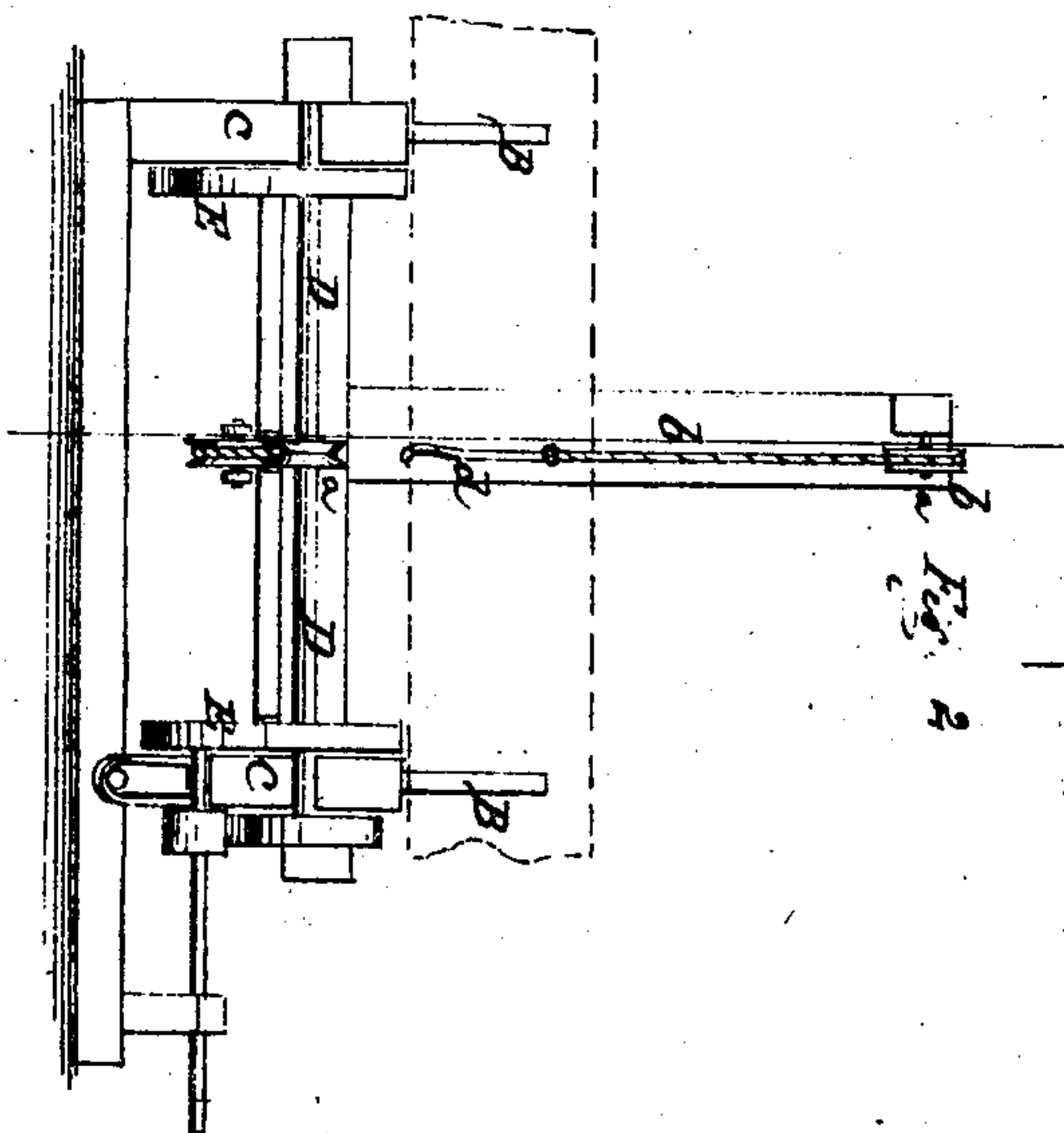


G. Willett.

Turning Logs.

N<sup>o</sup> 81316

Patented Aug. 18, 1868.



Witnesses:  
Wm A Morgan  
E. C. Cotton

Inventor  
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per Murray &  
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# United States Patent Office.

GEORGE WILLETT, OF RICHBURG, NEW YORK.

*Letters Patent No. 81,316, dated August 18, 1868.*

## IMPROVEMENT IN TURNING LOGS IN SAW-MILLS.

*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, GEORGE WILLETT, of Richburg, in the county of Alleghany, and State of New York, have invented a new and improved Device for Turning Logs on Saw-Mills; 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 drawings, forming part of this specification.

Figure 1 represents a vertical longitudinal section of my improved log-turning device.

Figure 2 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for revolving logs on the carriages of circular and other saw-mills. Its object is to do away with the jar and shock caused by the ordinary method of turning over the logs.

My invention consists in the use of a wheel or wheels on a rotating axle, the edges of said wheels receiving the weight of the log, when the same has been partly turned by the aid of the ordinary suspended cant-hook, the wheels then carrying the log back to its right place on the carriage, adjusting it, and letting it down gradually and gently, so as to avoid all jars and shocks that might injure the machinery.

A, in the drawing, represents the carriage of a sawing-machine; B B are the head-blocks. C is a stationary frame or bed, arranged under the carriage, so that the latter moves above it. In the frame C are the bearings for a horizontal shaft, D, on which wheels E E are mounted. The axle *d* is parallel with the log on the carriage.

On the axle D is also mounted a small pulley, *a*, to which the end of a cord, *b*, is fastened. This cord passes over pulleys *c c*, to an elevated frame, F, so as to suspend a hook, *d*, above the log. When the log is to be turned, the hook is made to catch under it, as in fig. 1. The shaft D is then revolved, by suitable mechanism, in the direction of the arrow in fig. 1, and thereby the cord *b* is gradually wound around the pulley *a*; the hook is thereby raised, and cants the log, as shown by red lines in fig. 1, so that the log falls upon the roughened edges of the wheels E, while its one edge rests on the carriage, as indicated.

The wheels, continuing to turn, carry the log gradually against the head-blocks, and at the same time gradually lower the elevated portion of the log until the same slips entirely off the wheels. It is then in the proper position on the carriage.

A portion of each wheel can be flattened, as shown, so as not to project above the frame C, to allow the log to be moved to the carriage on the frame.

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

The described arrangement of the wheels E E, relatively with the head-blocks, operating in connection with the cant-hook to turn the log, as herein shown and described.

GEORGE WILLETT.

Witnesses:

T. B. DAVIDSON,

S. J. MERRIMAN.