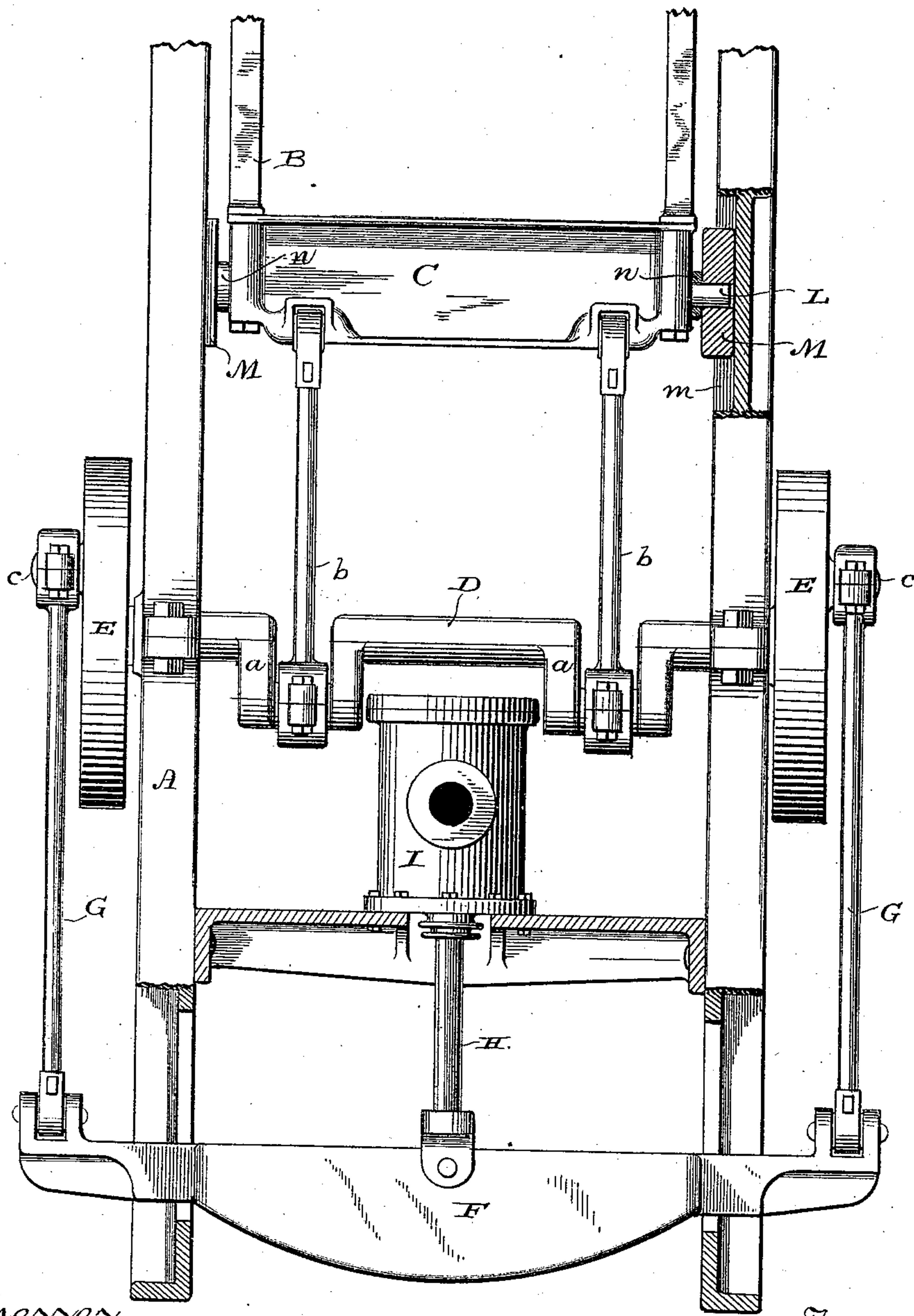


(No Model.)

T. S. WILKIN.  
GANG SAW MILL.

No. 447,092.

Patented Feb. 24, 1891.



Witnesses  
Geo. W. Young.  
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# UNITED STATES PATENT OFFICE.

THEODORE S. WILKIN, OF MILWAUKEE, WISCONSIN.

## GANG-SAW MILL.

SPECIFICATION forming part of Letters Patent No. 447,092, dated February 24, 1891.

Application filed January 26, 1889. Serial No. 297,595. (No model.)

*To all whom it may concern:*

Be it known that I, THEODORE S. WILKIN, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented  
5 certain new and useful Improvements in Gang-Saw Mills; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to gang-saw mills, and  
10 will be fully described hereinafter.

In the drawing the figure is an elevation of a portion of a gang-saw mill embodying my invention.

A is the gang-frame, B the sash, and C the  
15 girt.

D is a crank-shaft, the cranks *a* of which are connected with the girt by arms *b*.

E are eccentrics, one of which is carried by each end of the crank-shaft. From the wrist  
20 *c* of each eccentric an end of a cross-head F is suspended by an arm G, and the center of the cross-head F is connected with the piston-rod H of a cylinder I. As the eccentrics are coupled to the cross-head on the outside  
25 of the frame and the sash is coupled to the cranks on the inside of the frame, the necessity of split connections around the crank-shaft and broken joints in the connecting arm or arms is avoided, as the links *b*, that  
30 connect the girt and crank-shaft, will permit of the proper oscillation of the sash during its reciprocation.

The sash-girt C is formed with trunnions

L, which fit loosely in sliding blocks M, that in turn travel in guiding-channels *m* in the  
35 frame, and rubber or other elastic cushions *n* are interposed between each of the blocks M and the girt to take up lost motion, and thus steady the action of the sash.

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

1. The combination, in a gang-saw mill, of a sash and crank-shaft, inside connections between the cranks of the shaft and sash, eccentrics carried by the crank-shaft on the outside  
45 of the frame, a piston and its cylinder, a cross-head connected at each of its ends with one of the eccentrics, and a piston-rod connecting the piston to the cross-head, substantially as described.  
50

2. The combination, in a gang-saw mill, of a downwardly-acting piston, a cross-head suspended therefrom, and eccentrics linked to the cross-head, a crank-shaft carrying the  
55 eccentrics, and sash linked to cranks of the crank-shaft.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.  
60

THEODORE S. WILKIN.

Witnesses:

S. S. STOUT,

J. G. EMERY, Jr.