

W. Penny,

Saw Mill.

No. 97,112.

Patented Nov. 23, 1869.

Fig. 1.

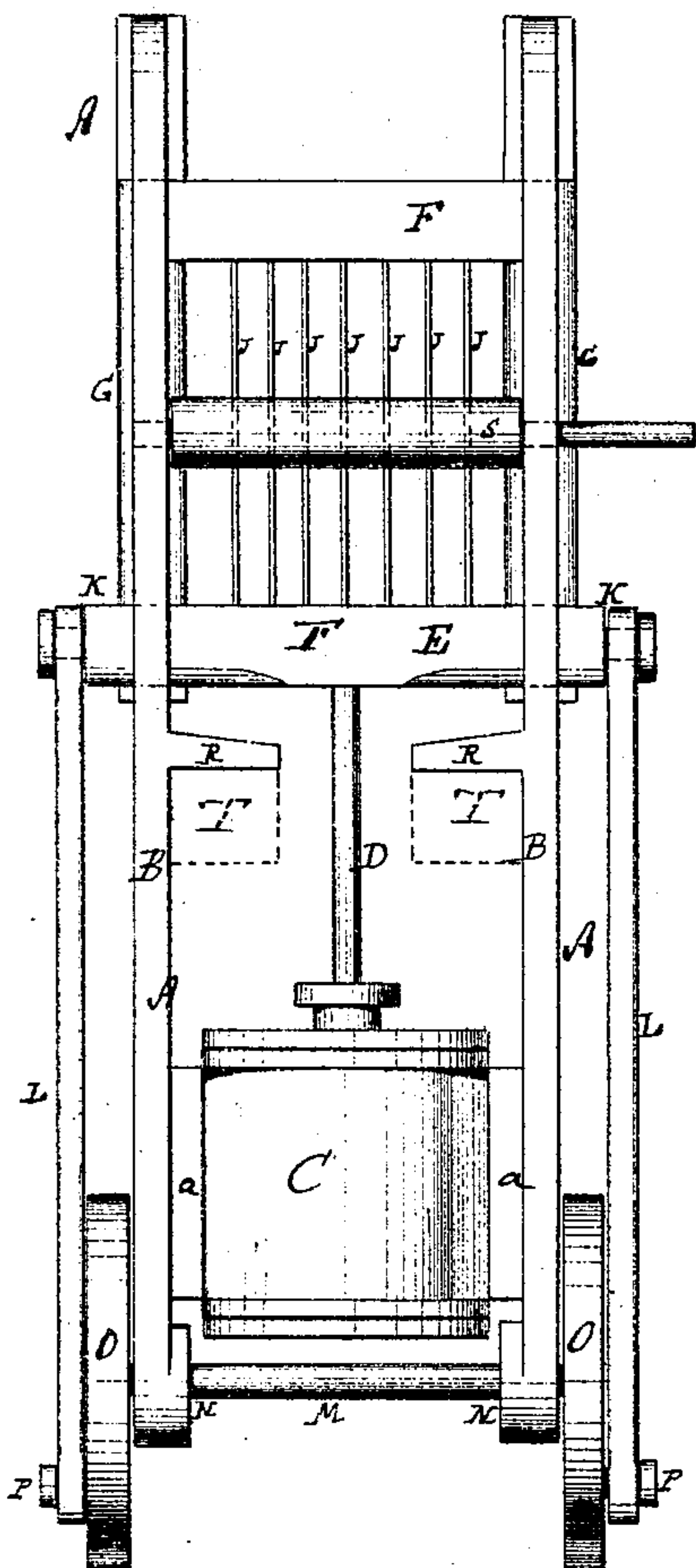
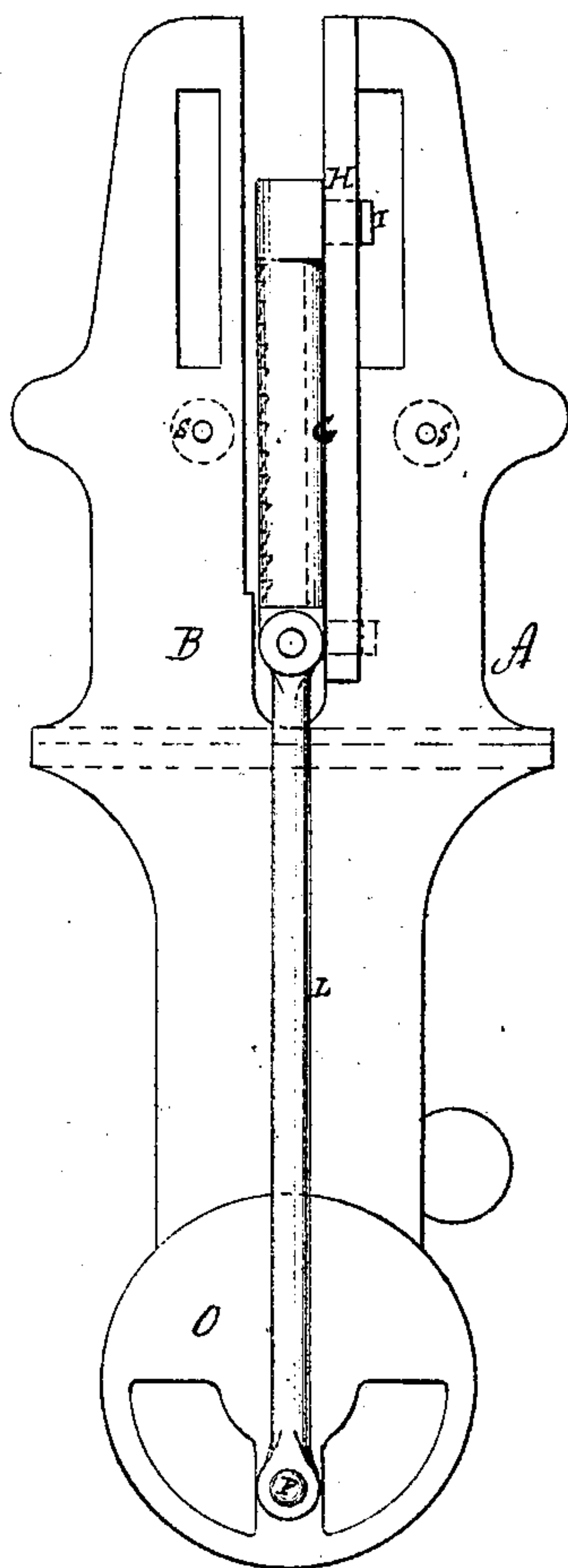


Fig. 2.



Witnesses:

A. Benneken
J. Dean Overell

Inventor:

W. Penny
PER Munn & Co.
Attorneys.

United States Patent Office.

WILLIAM PENNY, OF MILTON, FLORIDA.

Letters Patent No. 97,112, dated November 23, 1869.

IMPROVEMENT 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, WILLIAM PENNY, of Milton, Santa Rosa county, State of Florida, have invented a new and improved Gang-Saw Mill; 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.

Figure 1 represents a front elevation of my improved gang-saw mill.

Figure 2 is a side elevation of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new manner of constructing and arranging the frames of gang-saw mills, with a view of producing a simple, effective, and compact machinery, which may be readily transported, and which will combine all the requisites of a full-working mill.

The invention consists, chiefly, in so constructing and arranging the frame of the saw-mill, that it will serve as a support for the steam-cylinder which operates the saws, and for the feed-rollers that convey the stuff, and as a guide for the reciprocating sash in which the saws are held. Thereby compactness, strength, and cheapness of construction are obtained.

The invention consists, also, in various details of construction and arrangement, as hereinafter more fully described.

A, in the drawing, represents the frame of the saw-mill. It consists chiefly of two side-plates, B B, which are held at a suitable distance apart by the steam-cylinder, C, said cylinder having side-flanges, *a a*, which are bolted to the plates B, near the lower ends of the same.

The cylinder C is thus made to form part of the frame A, and to brace and retain in position the side-plates of the same.

The plates B are, on their inner sides, and some distance above the cylinder C, provided with horizontal-projecting flanges or brackets, R R, which are cast or secured on the same.

These flanges or brackets serve to support the frame A, and all its appendages, on a suitable fixed frame, T, indicated by dotted lines in fig. 1. The frame A

is in this manner suspended with its lower part from the frame T.

F represents the sash in which the gang of saws J is secured. This sash is made in the form of a four-sided frame, of one piece of cast-metal, and fits, with its side-pieces G, into the vertical slots formed in the plates B.

From the sides G, of the frame F, project pins K K, which serve as journals or pivots for the upper ends of pitmen-rods L L, as shown.

The piston-rod D, of the vertical cylinder C, is connected with the lower bar E, of the sash F. The sash serves, therefore, not only as a support for the saws, but also as a cross-head or guide for the piston-rod.

The pitmen-rods connect the sash with cranks P of a transverse shaft, M, which has its bearings in the lower part of the frame A, below the cylinder.

S S are the lower feed-rollers, on which the stuff to be sawed is carried to the saws.

There may also be upper feed-rollers, which should be vertically adjustable in slots *b* of the plates B.

The feed-rollers may, by suitable connection with the shaft M, receive automatically the motion which will cause the stuff to be fed along with the requisite speed.

Ribs, H, may be formed on the plates B, and jaws I, on the sash, to embrace them, so that the sash will thereby obtain still more perfect guidance.

Having thus described my invention,

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

1. The frame A, of a gang-saw mill, constructed as described, and provided with flanges or brackets, R, between the cylinder C and the saw-frame F, substantially as described, so that it is suspended and properly balanced in the manner specified.

2. The cylinder C, provided with flanges *a*, to brace the plates B, of the frame A, and to become portion of said frame, substantially as herein shown and described.

WM. PENNY.

Witnesses:

D. C. STODDARD,
E. B. HASTINGS.