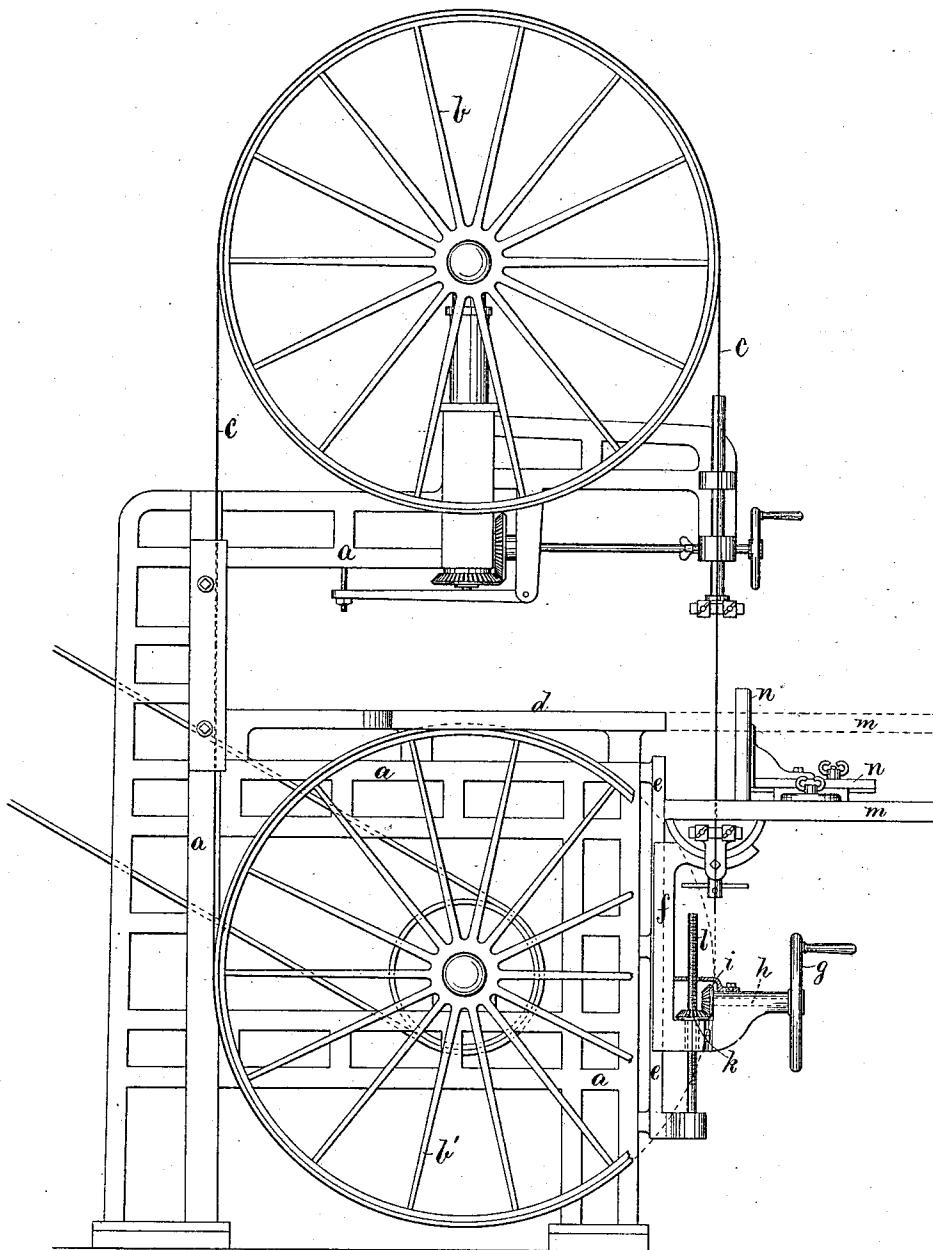


(No Model.)

W. W. CAREY.
BAND SAWING MACHINE.

No. 275,139.

Patented Apr. 3, 1883.



Witnesses

W. A. Blackwell
Sarah M. Goodrich

Inventor

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UNITED STATES PATENT OFFICE.

WILSON W. CAREY, OF LOWELL, MASSACHUSETTS.

BAND SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 275,139, dated April 3, 1883.

Application filed November 1, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILSON W. CAREY, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Band-Saw Machines; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawing.

This invention relates to improvements in band-saw machines; and it is carried out as follows, reference being had to the accompanying drawing, which represents a side elevation of the improvement.

It is very desirable in band-saw machines that a portion of the stock-supporting table should be made vertically adjustable, so as to enable the band-saw to be used for resawing thick pieces of wood, to cut it up into veneers, or for other resawing purposes. For this purpose I combine with the main or rear work-supporting table a vertically-adjustable front portion, through which the band-saw passes, as will now be shown and described.

a is the ordinary frame of a band-saw machine.

b is the upper wheel, and *b'* is the lower wheel, as usual, for carrying the endless band-saw *c*, as shown. One of the wheels *b* *b'* is vertically adjustable in the usual manner, for the purpose of regulating the distance between said wheels according to the length of the band-saw *c*, to obtain the proper tension of the latter.

d is the rear or main portion of the work-supporting table, which is rigidly secured to the frame of the machine.

To the forward part of the frame *a* is secured a vertical guide or plate, *e*, on which the bracket *f* is vertically adjustable, preferably by means of the crank or hand wheel *g*, spindle *h*, and bevel-pinions *i* *k*, the latter being screw-threaded and made to work around the stationary screw *l*, secured in its lower end to a horizontal projection, *e'*, on the guide *e*, as shown in the drawing.

To the upper end of the bracket *f* is secured

the vertically-adjustable front work-supporting plate, *m*, through which the band-saw *c* passes, as shown.

By means of the mechanism described, the front table, *m*, may be raised to a position even with the stationary rear table, *d*, as indicated by dotted lines in the drawing, when the front and rear tables, *m* and *d*, form together, as it were, one continuous work-support, as may be required for ordinary work.

If the machine is to be used for resawing wood, I lower the front table, *m*, more or less below the level of the stationary rear table, *d*, according to the height of the piece or plank of wood to be sawed, as shown in full lines on the drawing.

If so desired, the front table, *m*, may also be raised above the level of the stationary rear table, *d*.

n is a laterally-adjustable gage on the top of the table *m*, as usual.

I wish to state that I do not confine myself to the exact operative mechanism for raising, lowering, and securing the vertically-adjustable front work-table, *m*, as shown in the drawing, as the same may be changed without departing from the essence of my invention—as, for instance, it may be dispensed with altogether, and the table *m* raised by hand or lowered, and afterward secured in place by means of suitable set-screws, or similar or equivalent devices.

My invention may be modified as follows: by securing the front portion, *m*, to the frame *a*, somewhat below the stationary rear portion, *d*, in a position shown in full lines on the drawing, combined with a detachable front portion normally held in a level position with the rear plate, *d*, and adapted to be removed when the lower support is used, as shown in the dotted lines; but I prefer to carry out the invention in the manner as hereinabove described. By this arrangement the capacity of the band-saw machine and its usefulness for various kinds of work are materially increased.

What I wish to secure by Letters Patent, and claim, is—

In a band sawing machine, and in combi-

nation with the work-supporting frame *a* and
vertically - adjustable frame *m*, mechanism
for adjusting the frame *m*, consisting of the
bracket *f*, working on guide *e*, the hand-wheel
5 *g*, bevel-pinions *i* *k* and their support, and the
spindle *l*, secured to the guide *e*, all con-
structed and operating substantially in the
manner and for the purpose described.

In testimony whereof I have affixed my sig-
nature in presence of two witnesses.

WILSON W. CAREY.

Witnesses:

ALBAN ANDRÉN,
HENRY CHADBOURN: