

(No Model.)

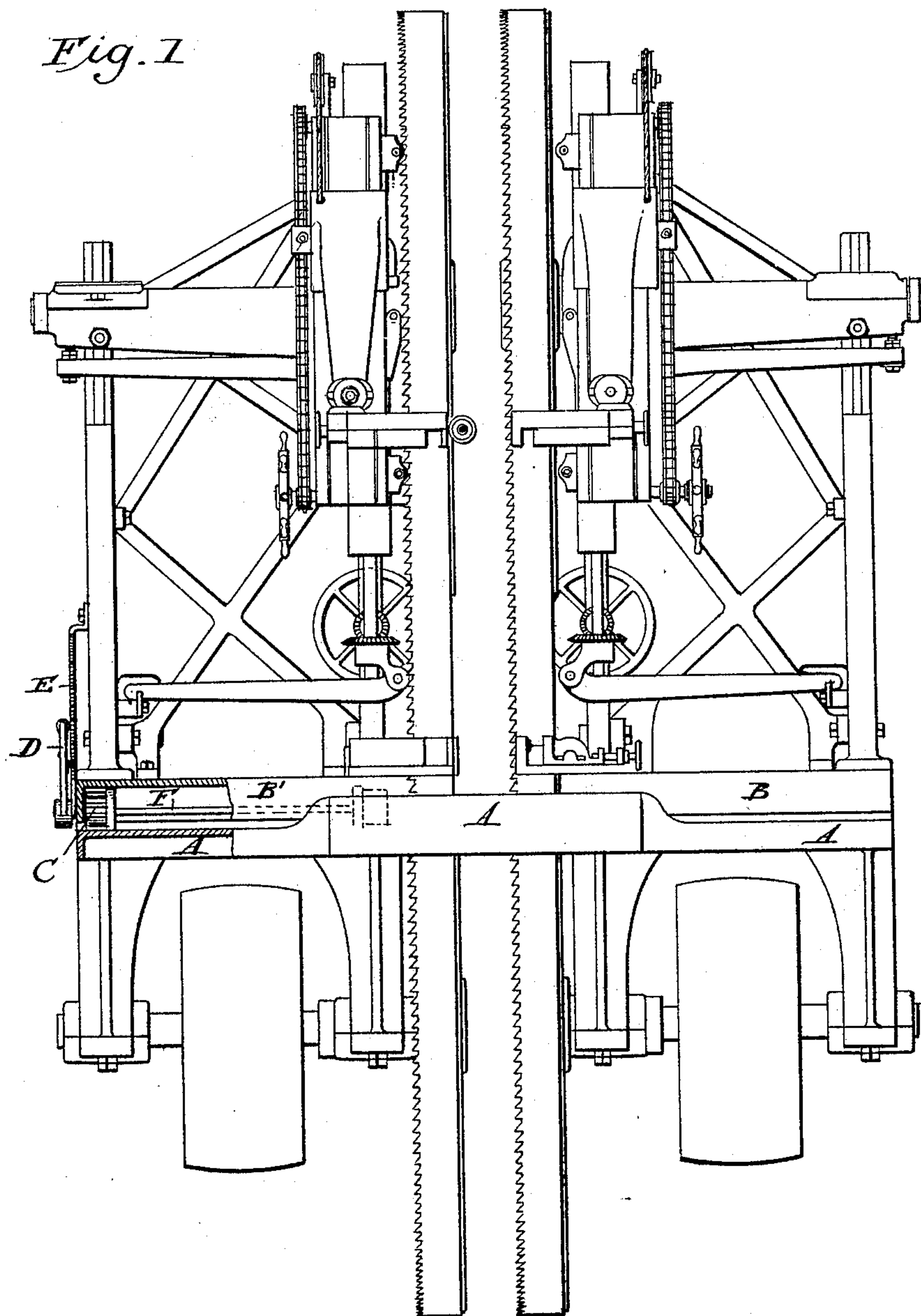
3 Sheets—Sheet 1.

D. B. HANSON.

BAND SAW MILL.

No. 390,227.

Patented Oct. 2, 1888.



Attest:
Sidney Hollingsworth
Horace A. Dodge

Inventor
DEMPSEY B. HANSON
By *Dodges Sons,*
Attorneys.

Model.)

3 Sheets—Sheet 2.

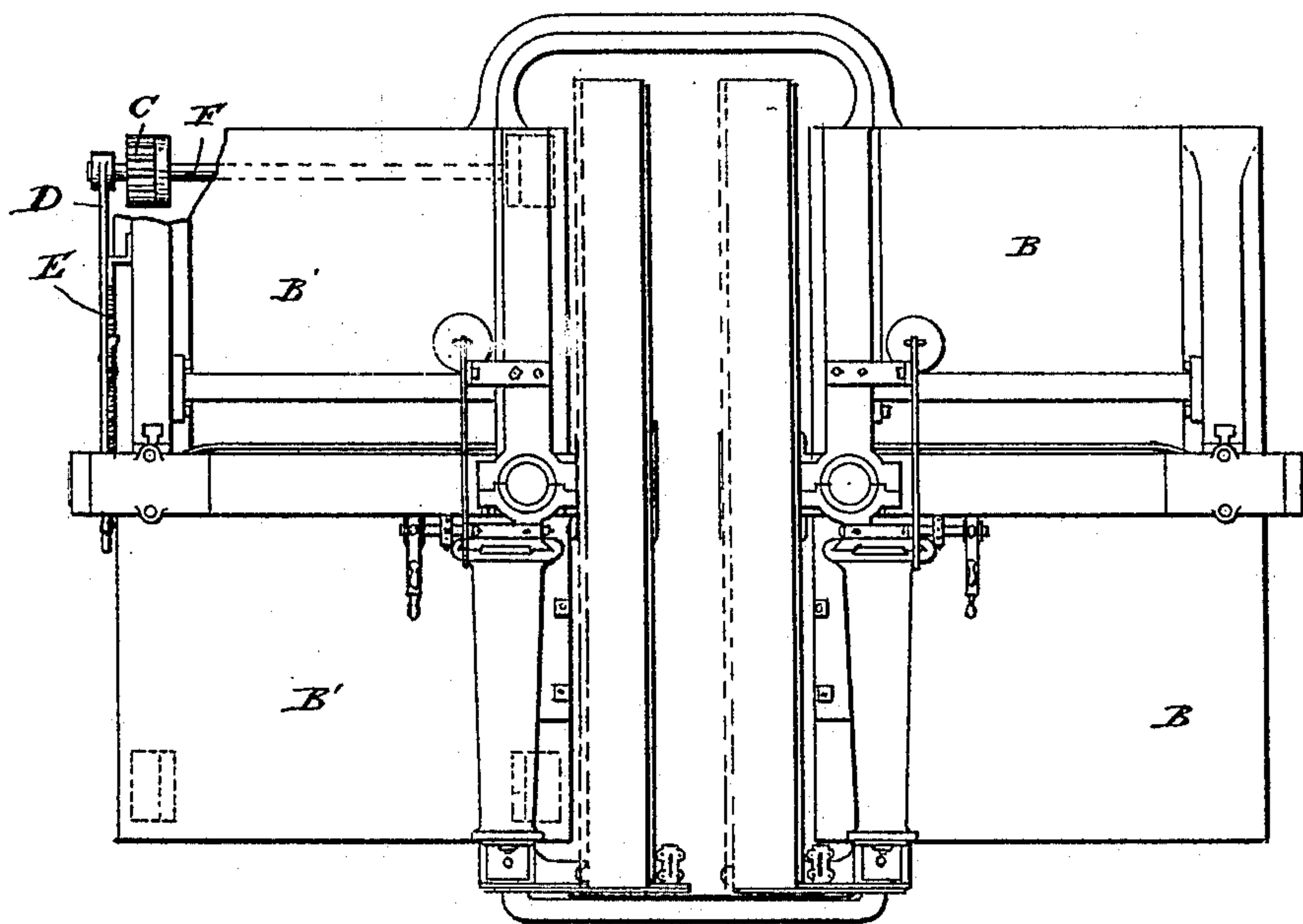
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Fig. 2.



Attest

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Inventor

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(No Model.)

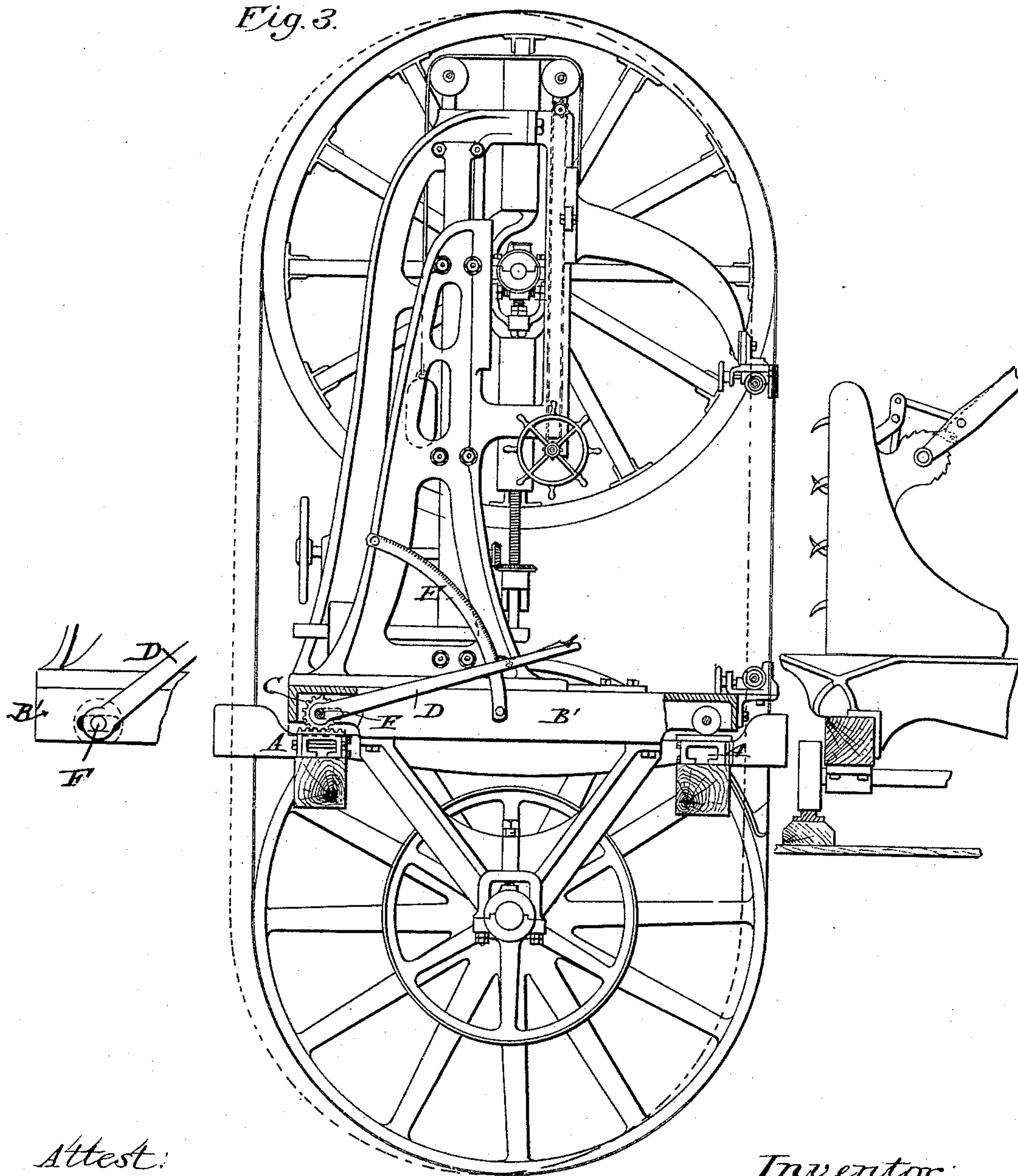
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Fig. 3.



Attest:

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UNITED STATES PATENT OFFICE.

DEMPSEY B. HANSON, OF AUSTIN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO EDWARD P. ALLIS, OF MILWAUKEE, WISCONSIN.

BAND-SAW MILL.

SPECIFICATION forming part of Letters Patent No. 390,227, dated October 2, 1888.

Application filed May 3, 1888. Serial No. 272,739. (No model.)

To all whom it may concern:

Be it known that I, DEMPSEY B. HANSON, of Austin, in the county of Potter and State of Pennsylvania, have invented certain new and useful Improvements in Band-Saw Mills, of which the following is a specification.

My invention relates to band-saw mills, and relates to that class having in combination with a suitable bed frame or support two band-saw mills mounted thereupon, one of said mills being secured rigidly in position upon said frame-work or bed, while the other is adapted to be moved bodily upon said bed or support toward or from the carriage, as desired, so as to bring its saw into or out of line with the saw of the fixed mill, thereby permitting lumber of different and varying thicknesses to be cut at a single travel of the carriage.

In the drawings, Figure 1 is a face view of my improved double band-saw mill; Fig. 2, a top plan view of the same, and Fig. 3 a side view.

Referring again to the drawings, A indicates the iron base-plate, support, or bed, which may be of any desired construction, and B B' indicate two separate bed-plates, which are mounted upon the bed or support A. Each of the bed-plates B B' is provided with a complete band-saw mill, which may obviously be of any desired construction, and each of which is provided with separate driving mechanism.

The bed-plate B is bolted or otherwise rigidly secured upon the bed A, while the bed-plate B' is adapted and arranged to move upon the bed A horizontally in a direction at right angles to the line of travel of the carriage or log-support B², so as to bring the cutting-edge of its saw-mill into or out of line with the cutting-edge of the fixed saw-mill mounted upon bed-plate B.

Various mechanisms may be employed for moving the bed-plate and its mill upon the bed-plate A—such, for instance, as screws, wedges, or toothed gearing. In the drawings I have shown the latter plan; but I do not wish to be understood as limiting myself to this special form of mechanism.

F indicates a shaft journaled in the bed-plate B at its rear side, as shown in the figures, the said shaft being provided at one or both ends

with gear-wheels C, which are adapted to mesh with toothed racks secured, respectively, to the bed-plates A and B'.

The shaft F extends outward through an elongated slot in the end walls of the bed-plate B', and is provided at its outer end with a hand-lever, D, which in turn is provided with a pawl or dog adapted to engage with a toothed arc, E. From this construction it will be seen that as the said lever D is raised it will turn the shaft F and the gear-wheels C, secured thereto, and move the frame B', with its complete mill, backward away from the saw, as indicated by dotted lines in Fig. 3, the said lever being held at any desired adjustment by means of the pawl engaging with the toothed arc E.

If desired, wheels C will be placed between the bed-plates A and B' at the front edges, said wheels being either toothed or made plain, as preferred.

The mill that is mounted upon the frame B' may be moved upon the bed A to a greater or less extent, so as to bring its saw into or out of line with the saw of the stationary mill, thereby enabling the operator to adjust the mill to any position he may require to cut different thicknesses of lumber.

I am aware that it has been proposed to mount a number of band-saws upon a bed-frame, the saws being arranged in groups on opposite sides of a fixed table, and all the saws of each group being adjustable toward and from the table, and such an arrangement I hereby disclaim. In my mill the saws are adapted for use in connection with a saw-mill carriage moving upon a track which is fixed relatively to the frame-work of the machine, which carriage could not of course be used with the arrangement of saws to which I have above referred, for the reason that the lumber passes between the opposing groups of saws. Such an arrangement as I have just referred to—viz., a saw-mill carriage adapted to run between two band-saw mills mounted on a common frame-work and adapted to cut slabs off opposite faces of a log—has been proposed, but never successfully used, so far as I am aware, for the reason that the carriage prevents the saws from being brought close enough together to make more than one cut. By

placing the lumber support or carriage outside of the support or bed-frame, I am enabled to cut up the entire log irrespective of its size, and this, too, without having to adjust the movable band-saw mill after each cut. While, 5 therefore, acknowledging fully the prior state of the art, I would say that I am not aware that it has ever before been proposed to combine with a fixed frame-work carrying fixed 10 and movable band-saws a saw-mill carriage or other form of log-support outside and independent of the frame-work, as herein shown and described.

I am also aware that it has been proposed 15 to mount two circular saws upon a common frame-work and to make one of said saws adjustable relatively to the other. Such a construction I do not claim; but

What I do claim is—

In combination with a base-plate, bed, or 20 support, a band-saw mill secured rigidly in position thereon, a second band-saw mill, also mounted upon said support by the side of the fixed saw, but adjustable relatively thereto, means for adjusting the movable band-saw 25 mill, and a saw-mill carriage located to one side of the band-saw mills and movable past the same, all substantially as shown.

In witness whereof I hereunto set my hand in the presence of two witnesses.

DEMPSEY B. HANSON.

Witnesses:

G. B. ROOTT,
W. T. LEWIS.