

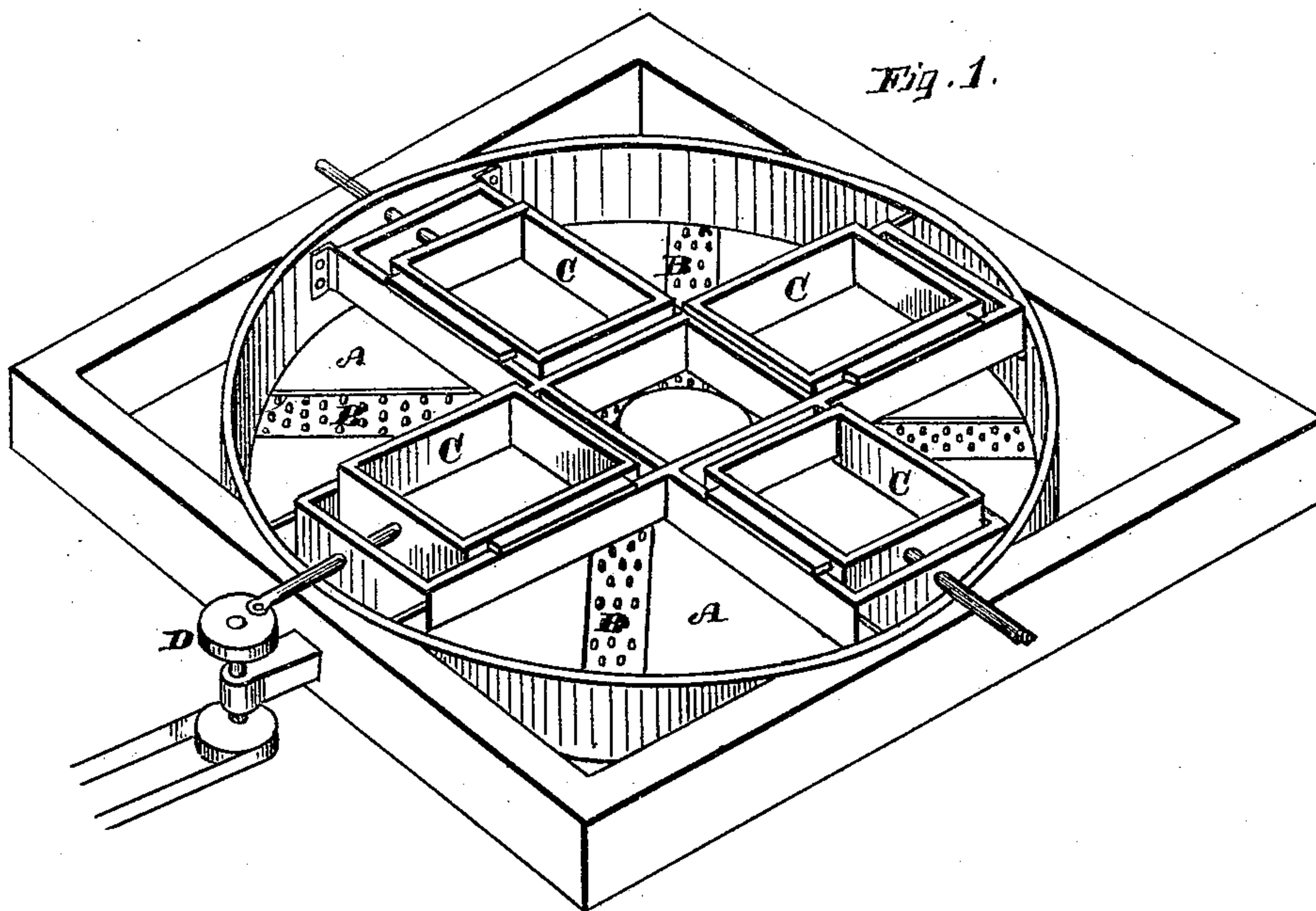
(No Model.)

R. B. LANE.

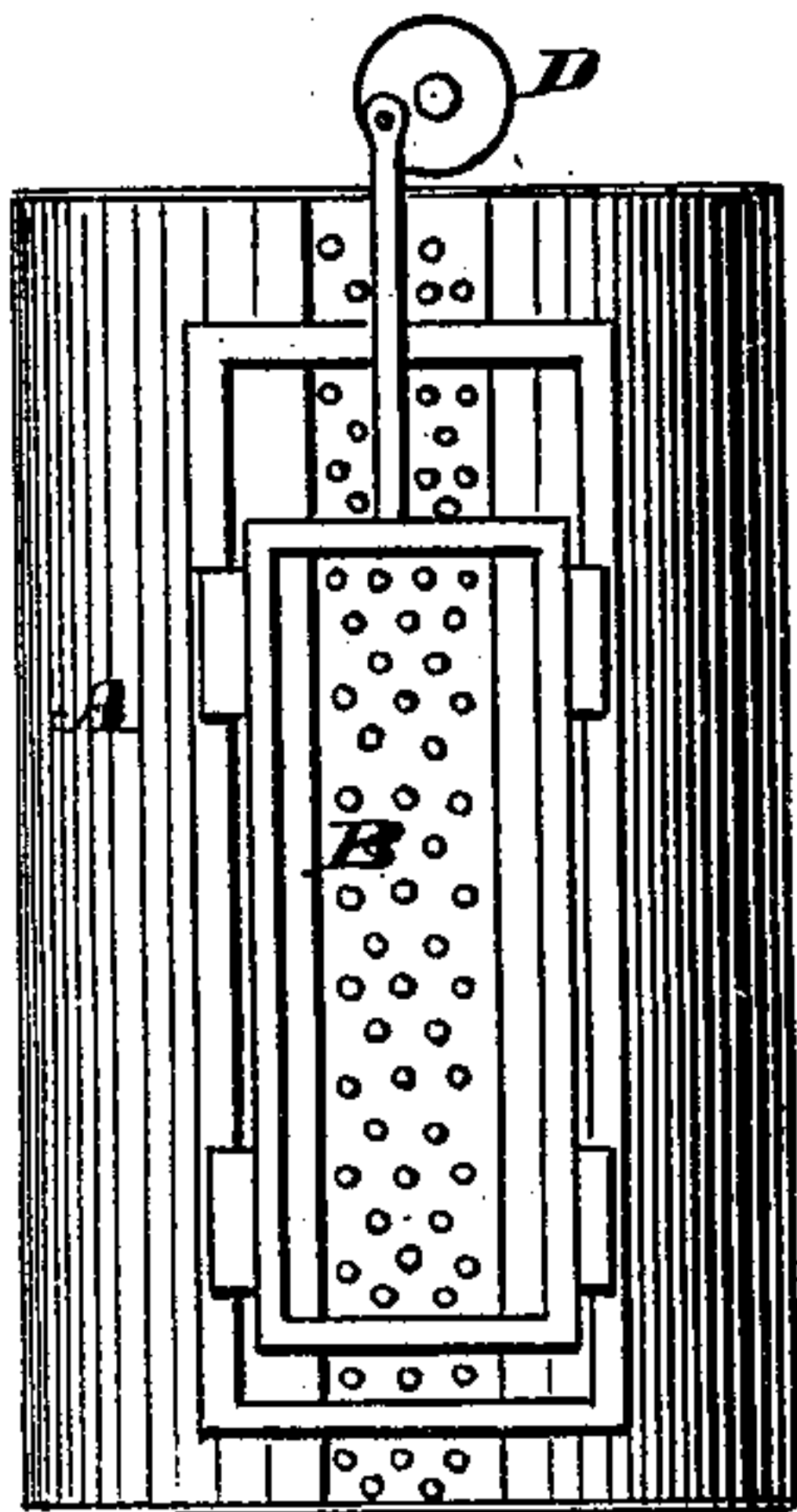
MAKING PAPER PULP FROM WOOD.

No. 247,072.

Patented Sept. 13, 1881.



*Fig. 2.*



Witnesses  
Geo. H. Strong.  
Frank A. Brooks

Inventor  
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By Dewey & Co. Attys

# UNITED STATES PATENT OFFICE.

RUFUS B. LANE, OF STOCKTON, CALIFORNIA.

## MAKING PAPER-PULP FROM WOOD.

SPECIFICATION forming part of Letters Patent No. 247,072, dated September 13, 1881.

Application filed July 27, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, RUFUS B. LANE, of Stockton, county of San Joaquin, State of California, have invented an Improvement in Making Paper-Pulp from Wood; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to certain improvements for pulping the fiber of wood to be employed as paper-stock or for other purposes; and it is an improvement upon apparatus for which Letters Patent were issued to me October 12, 1880, No. 233,105, and April 5, 1881, No. 239,807.

My present invention consists of a mechanism by which the blocks of wood to be pulped are moved backward and forward across the cutting-pins, and at, or nearly at, right angles with the line of motion of the cutters, as will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 shows the application of my invention to a flat face, having the pins arranged radially outward from its center of motion.

Fig. 2 is a view of a cylinder having pins upon its periphery, and over which the blocks are caused to move at right angles with the travel of the pins.

A is a face or cylinder having depressions upon it, and pins B arranged therein to cut, tear, or break up the fiber of the wood, as is more fully explained in my former patents.

I have found that in order to produce the most effective work it is necessary to keep the blocks of wood in motion across the line of travel of the pins. In order to do this the blocks of wood are fitted into iron or other suit-

able frames, C. These frames are fitted in guides, so that they may be moved to and fro across the pins, contact being maintained between the blocks and the pins as shown in my former patents, or by other convenient means.

In order to move the blocks and their holding-frames, I connect them with eccentrics, cams, or other suitable mechanism, D, for producing a to-and-fro motion, so that as the cylinder is revolved or the face carrying the pins is moved, the blocks are also moved across the line of travel of the pins. This presents new surfaces of wood perpetually to the pins, so that they will abrade it more rapidly, and the material thus produced will be carried off more rapidly, so as to leave the pins free to do the most effectual work.

It will be manifest that my improvement may be applied to any grinding or abrading surface by which the wood is pulped.

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

The improvement in apparatus for producing pulp for paper-stock from wood, consisting of a means for holding the blocks of wood in contact with the pins upon the moving face, and at the same time moving said blocks back and forward across the line of travel of the pins or other grinding or abrading surface, substantially as herein described.

In witness whereof I have hereunto set my hand.

RUFUS B. LANE. [L. S.]

Witnesses:

FRANK MILLER,  
EDWARD NORTON.