

(Model.)

E. D. DOUGHERTY.
Division Block and Holder for Stone-Saws.

No. 228,045.

Patented May 25, 1880.

Fig. 1.

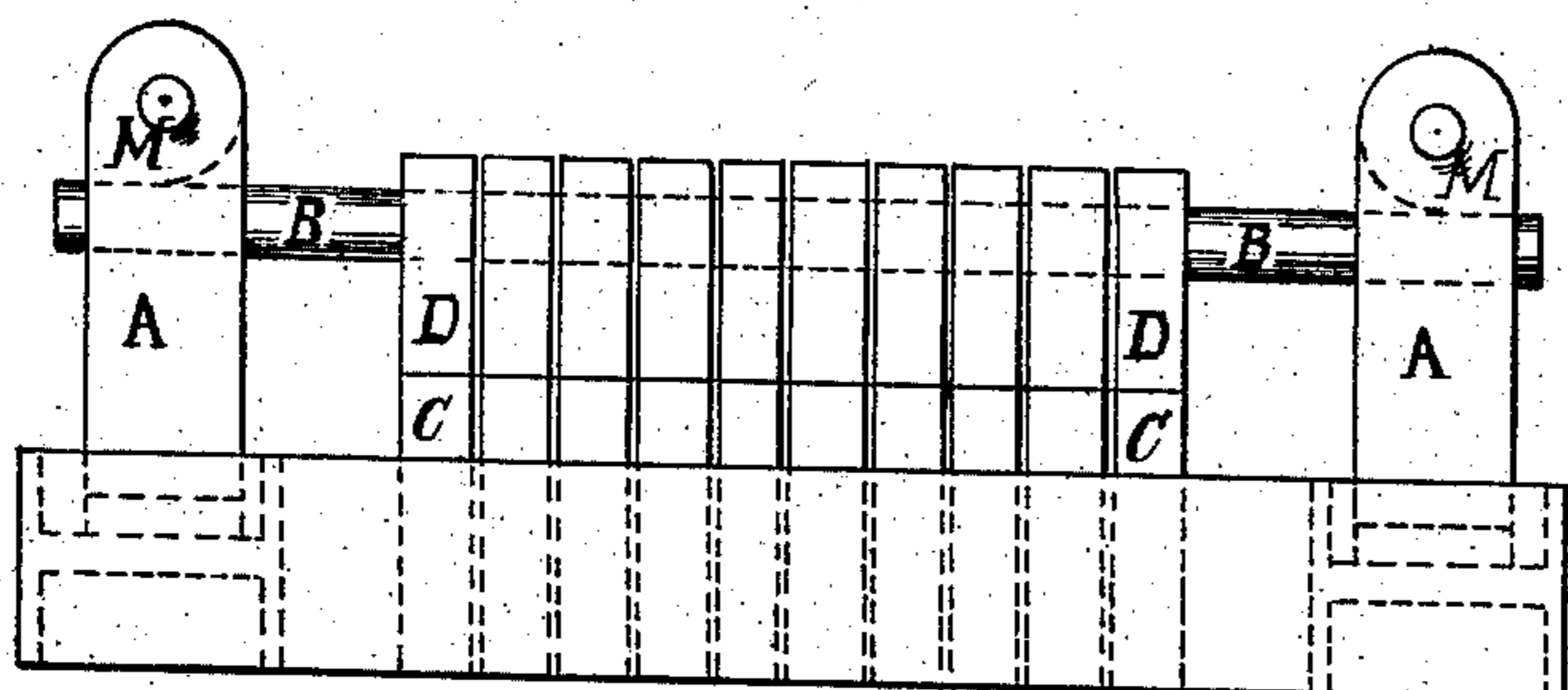


Fig. 2.

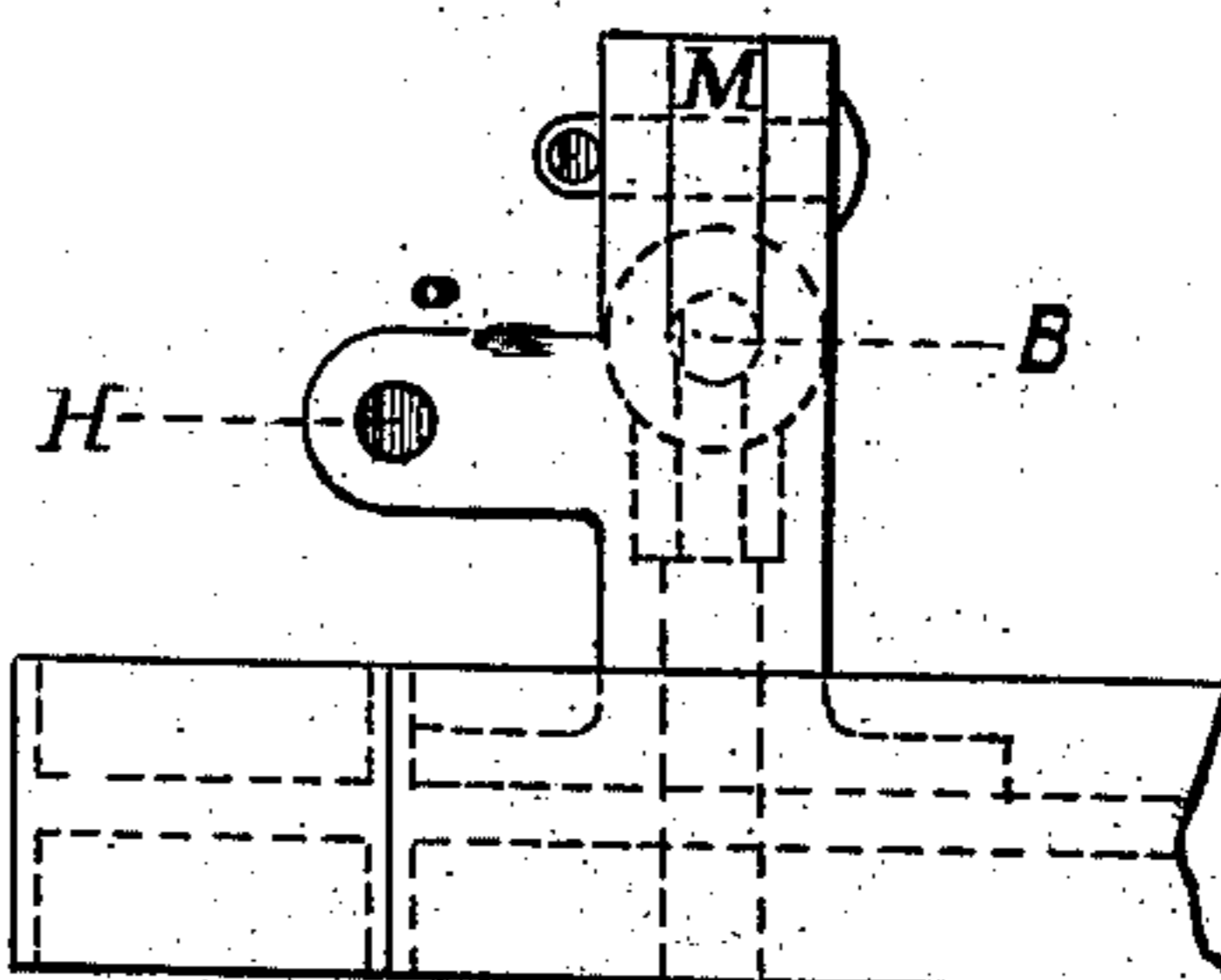


Fig. 3.

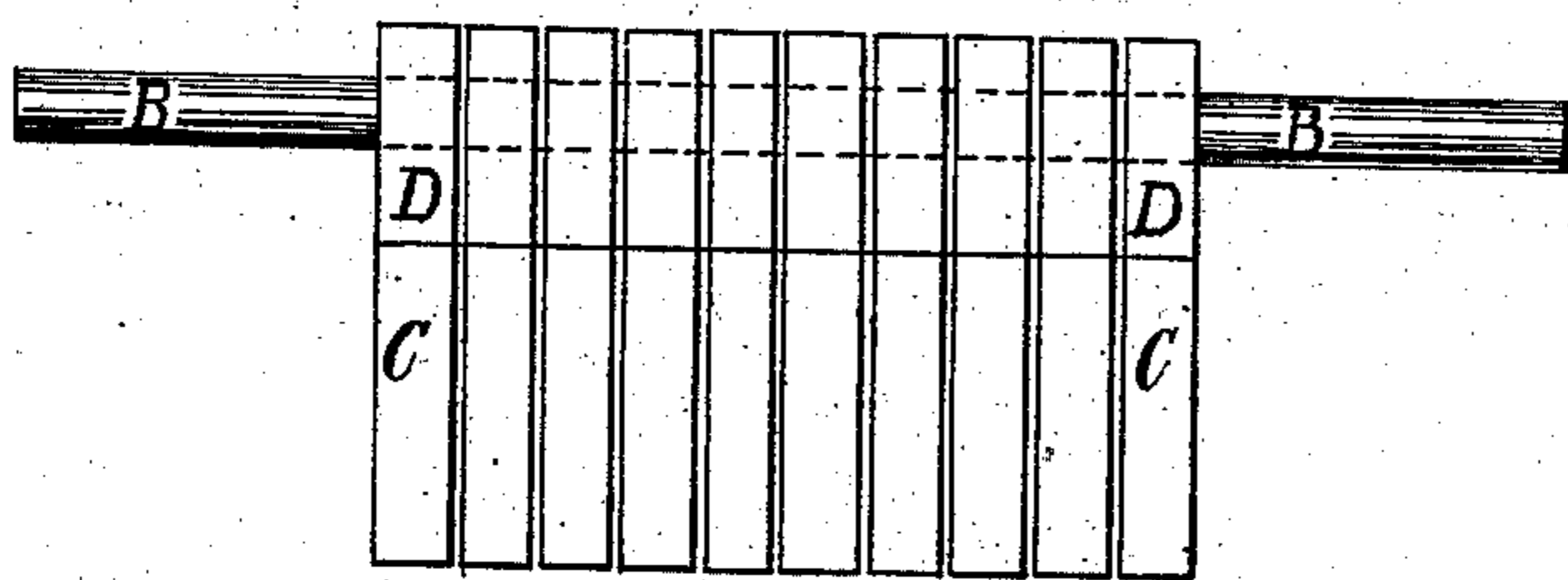


Fig. 4.

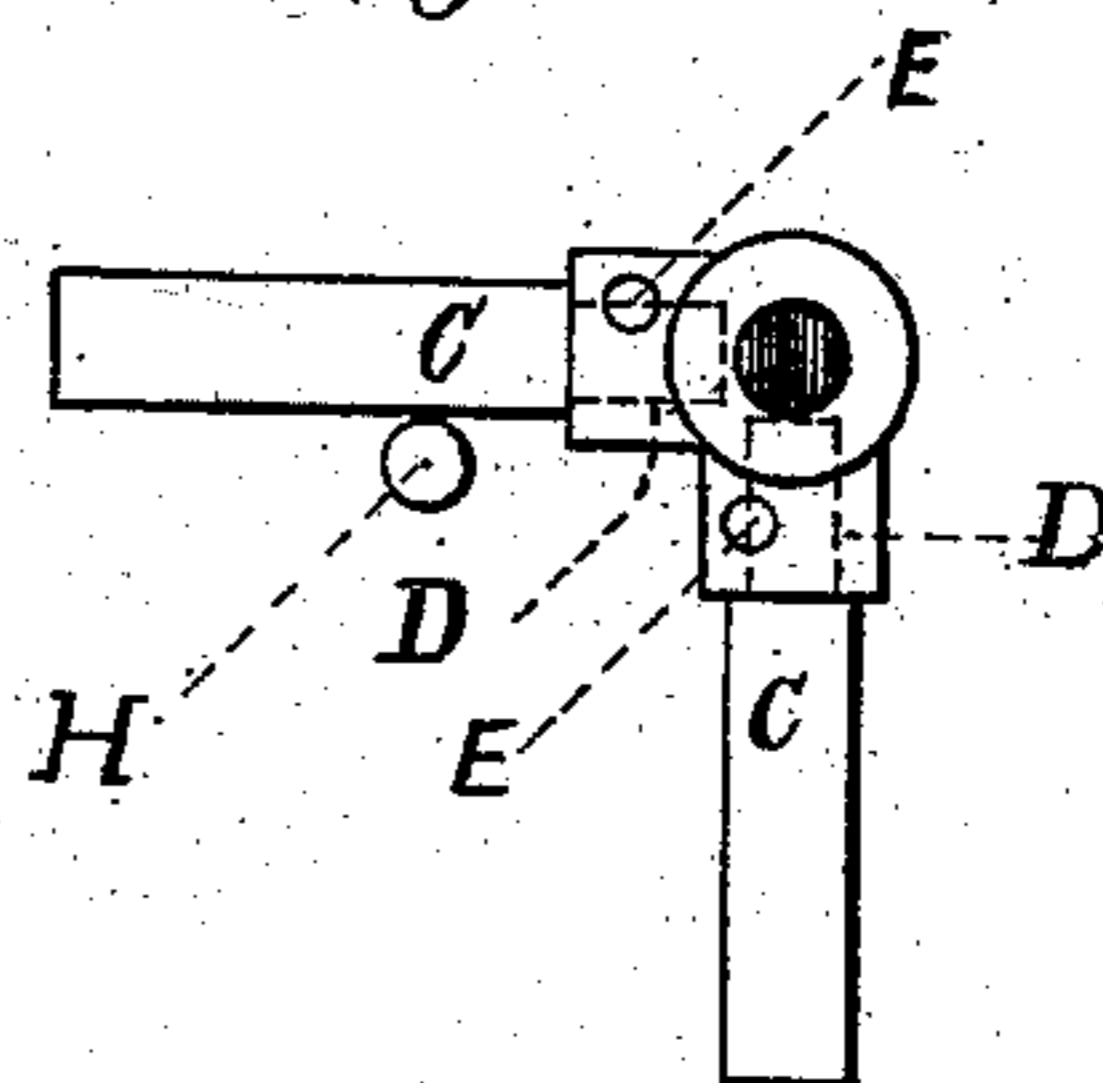


Fig. 5.

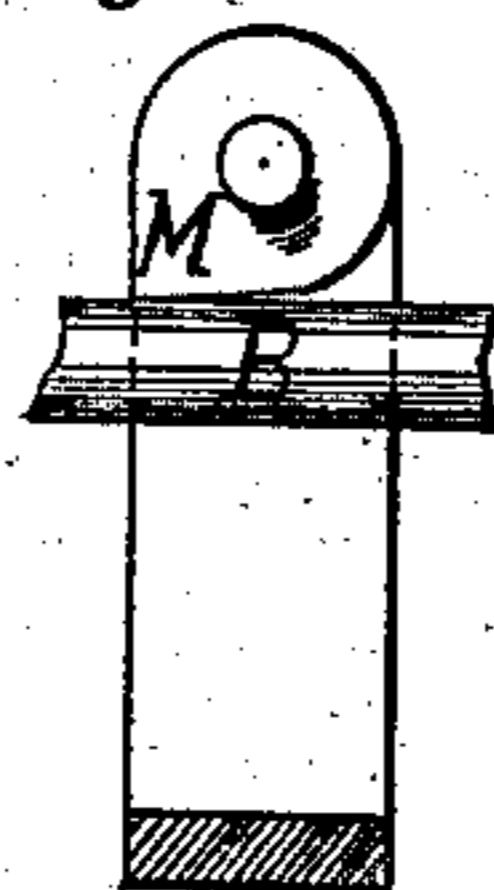
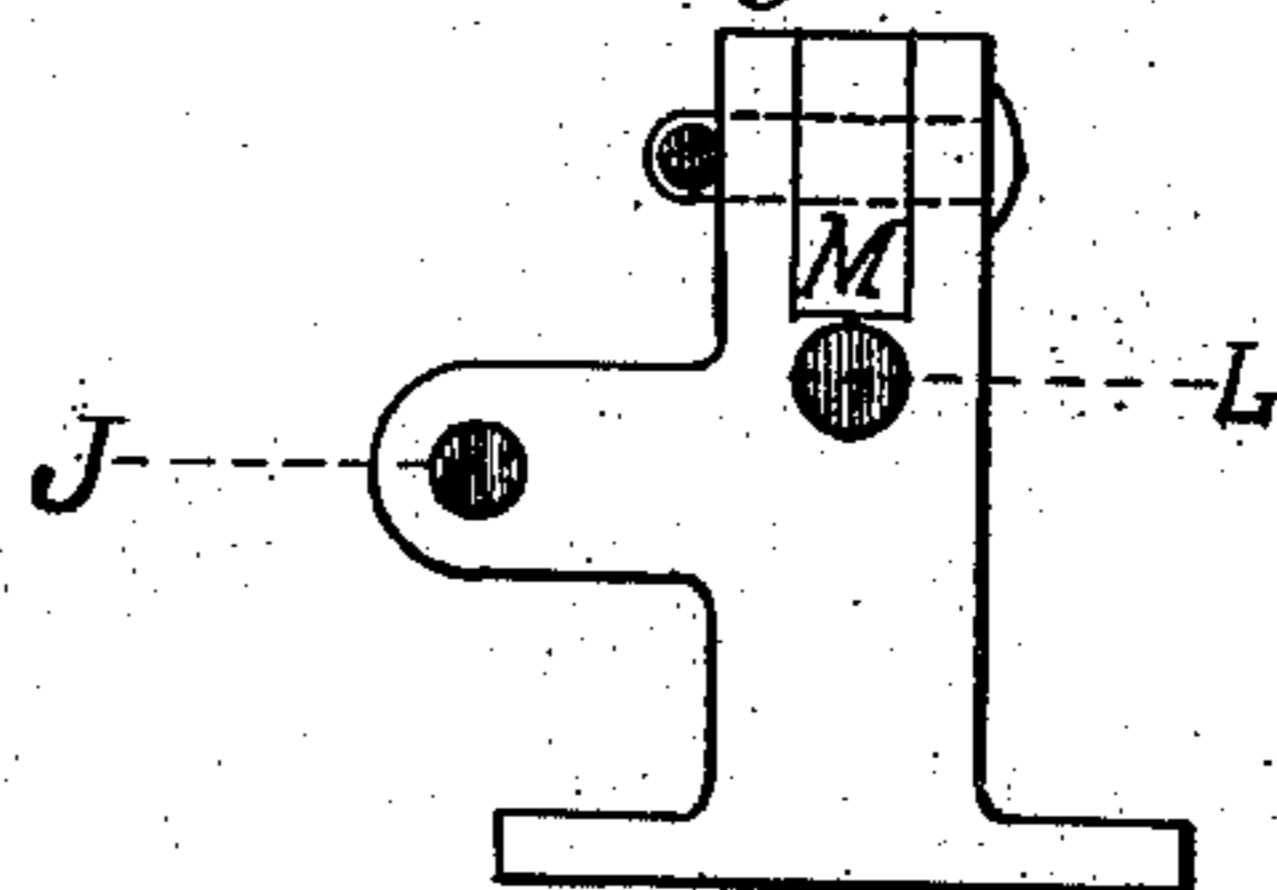


Fig. 6.



Witnesses:

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DIVISION-BLOCK AND HOLDER FOR STONE-SAWS.

SPECIFICATION forming part of Letters Patent No. 228,045, dated May 25, 1880.

Application filed March 8, 1880. (Model.)

To all whom it may concern:

Be it known that I, EDWARD D. DOUGHERTY, of the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Duplex Division-Blocks and Division-Block Holders for Stone-Saws, of which the following, reference being had to the accompanying drawings, is a specification.

The invention relates to a form of division-block and means for securing the same so that it can be used expeditiously and accurately for sawing stone or marble into slabs.

The method now in vogue is by the use of wooden or iron blocks placed between the blades of the saw-frame, and simply held there by the pressure on the sides of the blades. These sometimes fall out, and the slabs are sawed unevenly, and it also takes a longer time to set the blades than with the improved division-blocks and division-block holder I shall now describe.

The block consists of a piece of wood, metal, or other suitable material, preferably iron, of any desired size, two sides being of one specified size and the other two being of another specified size, so that one block can be used to saw two sizes of slabs.

The top of the block is formed into a pin, which is secured to a ring, forming a swivel, allowing the block to turn, although the ring, or "rod-ring," as I shall designate it, remains stationary.

The manner of using the blocks is as follows: They are first strung or hung on a rod, preferably of iron, through the rings, the said rod being attached to a bracket or rod-holder, the latter being secured to the saw-frame by clamps, screws, bolts, or in any equivalent manner, the said rod being held in place by a clamp-cam, though any fastening can be used for that purpose. The blocks naturally hang vertically by their own weight, and, being inserted between the blades, and pressure brought to bear from the sides of the frame, are at once adjusted firmly and accurately in their proper position. They are always in place, cannot be lost, and can be readily changed (simply by lifting up and turning) to saw any two given sizes.

The support-bar directly back of the block-rod is used to lay the blocks upon when the saw-blades are being put into or set in the frame.

The object of my invention is to provide a simple, durable, and reliable division-block and holder for the same. This block has also the merit of being duplex, thereby combining two blocks in one.

My invention also relates to the combination of the holder for the rod or rod-bracket, the support-bar, and clamp-cam.

In the accompanying drawings, in which similar letters indicate like parts, Figure 1 represents a view of the holders with division-blocks in place on saw-frame. Fig. 2 is a side elevation of holder with block-rod, support-bar, and clamp-cam. Fig. 3 is a view of the division-blocks in position on block-rod. Fig. 4 is a side elevation of division-blocks at rest on support-bar and in position for use. Fig. 5 is a front elevation of holder, showing clamp-cam and block-rod. Fig. 6 is a side elevation of holder with bearings for block-rod and support-bar.

A represents the holder, with block-rod B, division-blocks C, swivel D, pin E, support-bar H, bearing for support-bar J, bearing for block-rod L, and clamp-cam M.

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

1. A division-block for a stone-sawing machine, constructed of two unequal thicknesses or dimensions, with parallel sides, and adapted to produce two different qualities or degrees of spacing, substantially as described.

2. A division-block provided with a swivel, whereby it is rendered capable of adjustment to suit different spacings, substantially as described.

3. The combination, with a series of division-blocks, of a suspension-rod upon which said blocks are hung and movable, substantially as and for the purpose set forth.

4. The combination, with the frame of a stone-sawing machine, of a suspension-rod for the division-blocks and a series of unequal-sided division-blocks swiveled and hung upon said suspension-rod, as and for the purpose described.

EDWARD D. DOUGHERTY.

Witnesses:

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