

(No Model.)

2 Sheets—Sheet 1.

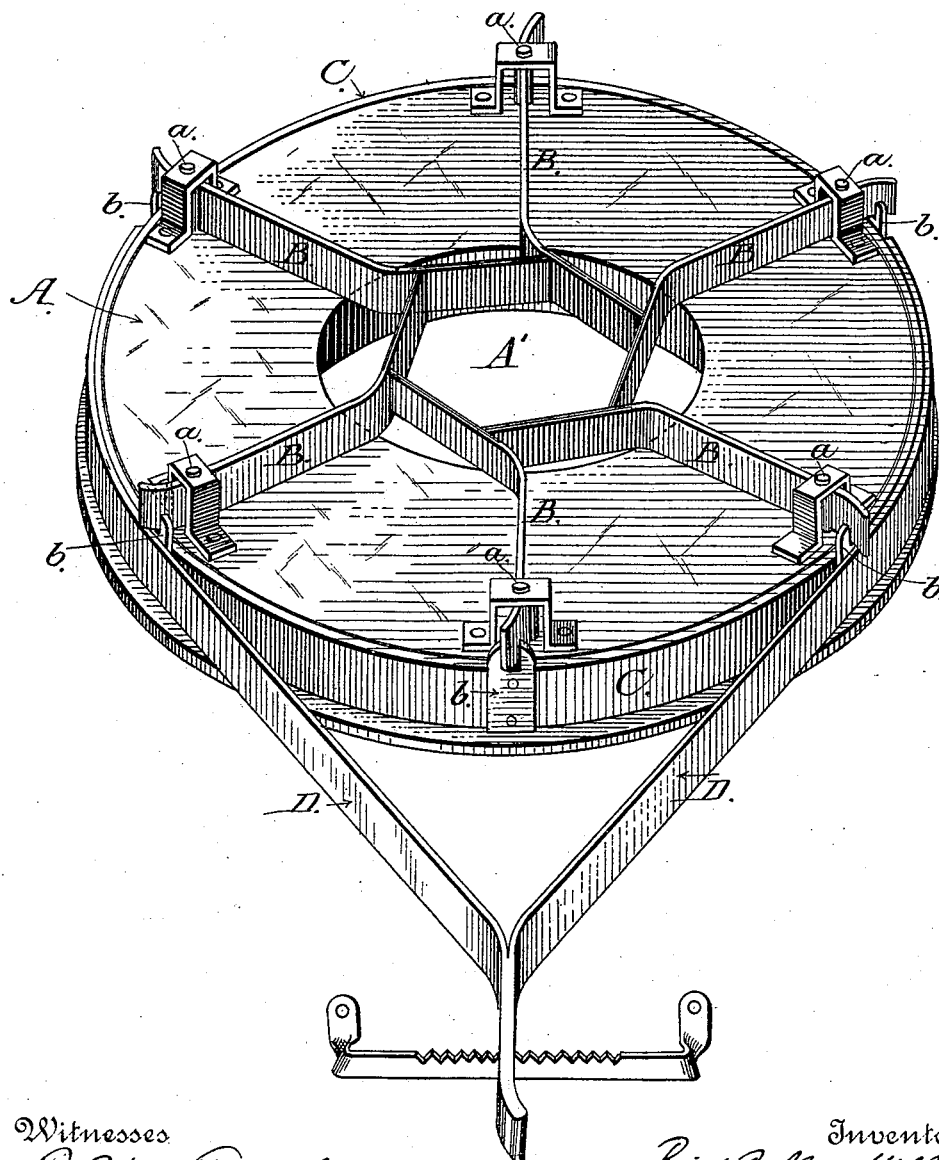
R. W. MILLER.

MACHINE FOR CUTTING PAVING BLOCKS.

No. 346,672.

Patented Aug. 3, 1886.

Fig. 1.



Witnesses
S. W. Fowler
H. B. Applewhite

Inventor
Rich^d W. Miller
By his Attorneys
A. H. Evans & Co

(No Model.)

2 Sheets—Sheet 2.

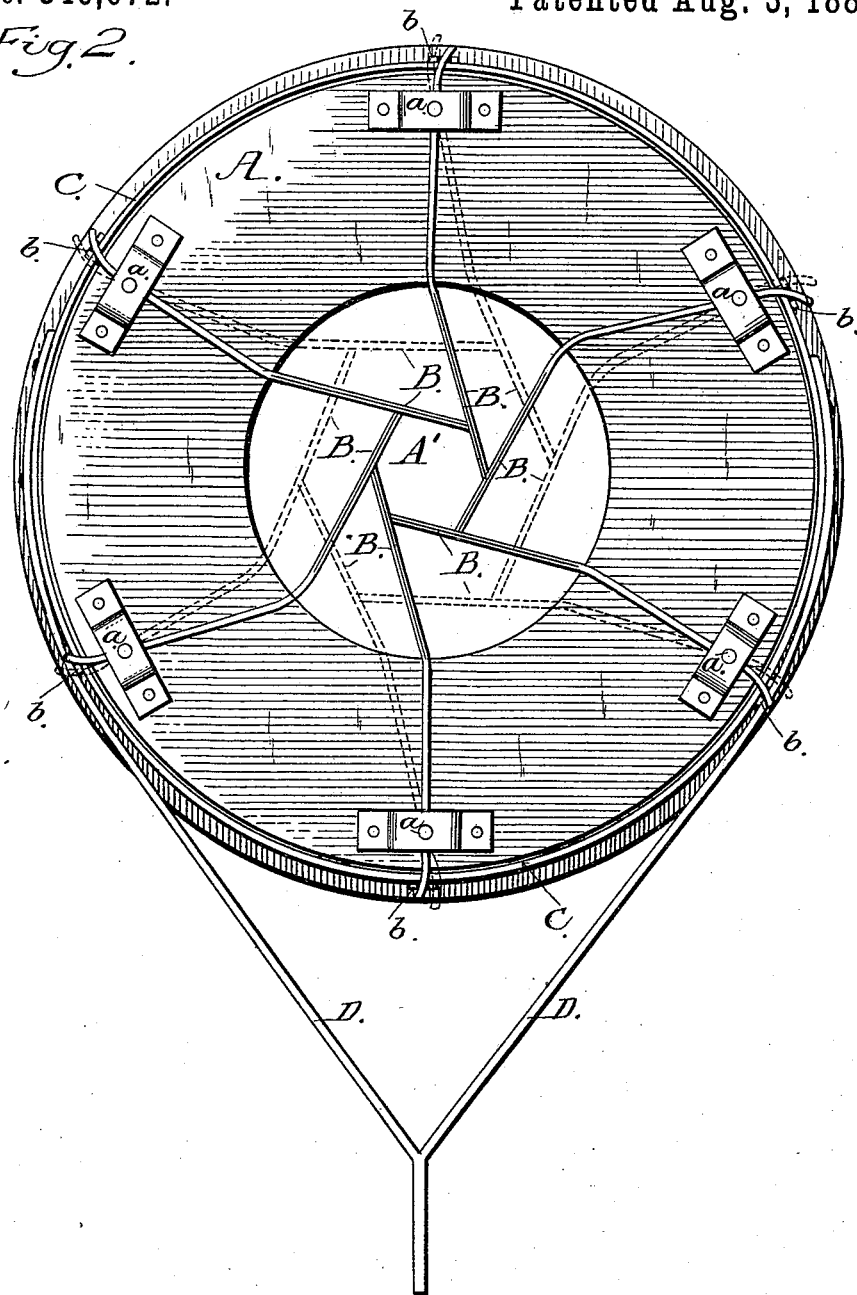
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Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

RICHARD W. MILLER, OF VASSAR, MICHIGAN, ASSIGNOR TO EDWARD H. TAYLOR, JAMES TOLBERT, DAVID G. SLAFTER, RACHEL MILLER, AND BRADFORD MILLER, ALL OF SAME PLACE.

MACHINE FOR CUTTING PAVING-BLOCKS.

SPECIFICATION forming part of Letters Patent No. 346,672, dated August 3, 1886.

Application filed March 26, 1886. Serial No. 196,702. (No model.)

To all whom it may concern:

Be it known that I, RICHARD W. MILLER, a citizen of the United States, residing at Vassar, in the county of Tuscola, State of Michigan, have invented a new and useful Improvement in Machines for Cutting Paving-Blocks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of a machine for cutting paving-blocks with my improvement attached. Fig. 2 is a plan view of the same.

My invention relates to that class of machines used in cutting hexagonal-shaped blocks of different sizes for paving purposes; and it consists of the combination of devices herein-after described and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents an annular cast-metal bed-plate having a central opening, A', and provided on its upper surface with six adjustable knives, B, of the peculiar shape shown in Figs. 1 and 2. These knives are pivoted to the bed-plate near their butts, at the point *a*, in any convenient manner, so as to move freely on their pivots, with a view of adjusting the size of the central opening between the cutting-blades to the size of the blocks desired. Around the bed-plate passes a metal band, C, to which are attached the slotted lugs *b*, to receive the butt-ends of each of the knives, as shown in Fig. 1. This band C is freely moved in its circle a sufficient distance to operate the cutting portion of the blades and cause them to increase or lessen the central opening between the knives, through which the paving-blocks have to pass in being cut to the proper shape and size.

To the band C is secured the lever D, for operating and moving the band to the right or

left. As all the knives are attached to the band, it is evident that the operator in moving the lever moves all the knives simultaneously and equally, so that the hexagonal figure formed by the cutting-blades is preserved, whatever the size of the opening may be.

From this description of my invention it will be evident that the blocks or pieces of wood being subjected to pressure to force them through the opening between the knives are thereby readily split into hexagonal forms of any desired size, and that all the sap may be readily removed from all kinds of wood. It is also evident that the lever for operating the knives may be vertical or horizontal, and any convenient or desirable power may be applied to the end of said lever to move the band C, and thereby adjust the size of the opening between the knives. If it be desirable, springs may be added to hold the knives in position without departing from the spirit of my invention. It is also evident that by grinding the knives to a beveled edge the blocks may be cut slightly tapering, so as to form a crowning road-bed.

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

1. The bed-plate A, having an open center, A', in combination with adjustable knives B, pivoted to said bed-plate, and having their inner ends so constructed in relation to each other as to form a hexagonal opening between them, substantially as herein described.

2. The bed-plate A, having a central opening, A', in combination with the adjustable knives B, pivoted to the bed-plate, the band C, encircling said plate and having slotted lugs *b*, engaging the outer ends of the knives, and a lever, D, secured to the band and operating the knives, substantially as herein described.

RICHARD W. MILLER.

Witnesses:

E. H. TAYLOR,
C. C. CURTIS.