

No. 706,677.

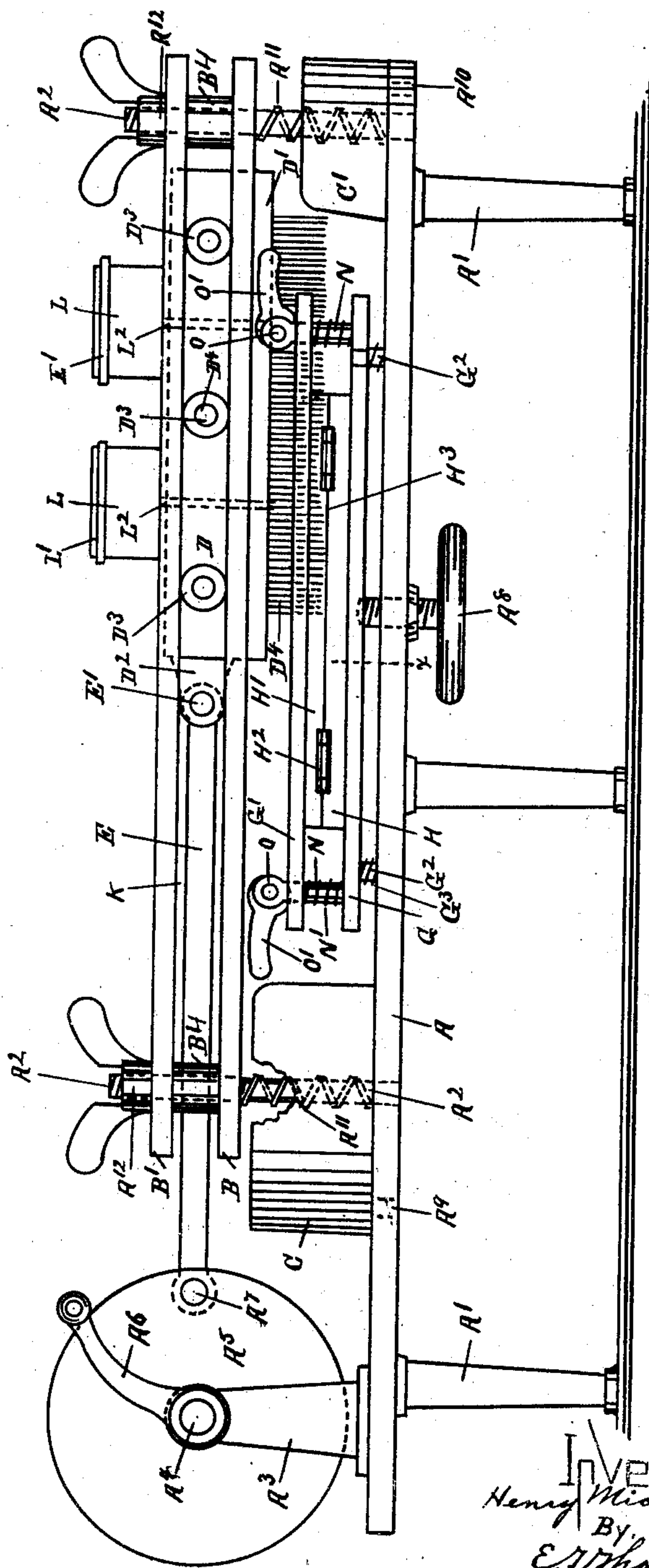
Patented Aug. 12, 1902.

H. MICHAUX.
KNIFE CLEANING MACHINE.
(Application filed Apr. 7, 1902.)

(No Model.)

3 Sheets—Sheet 1.

Fig. 1.



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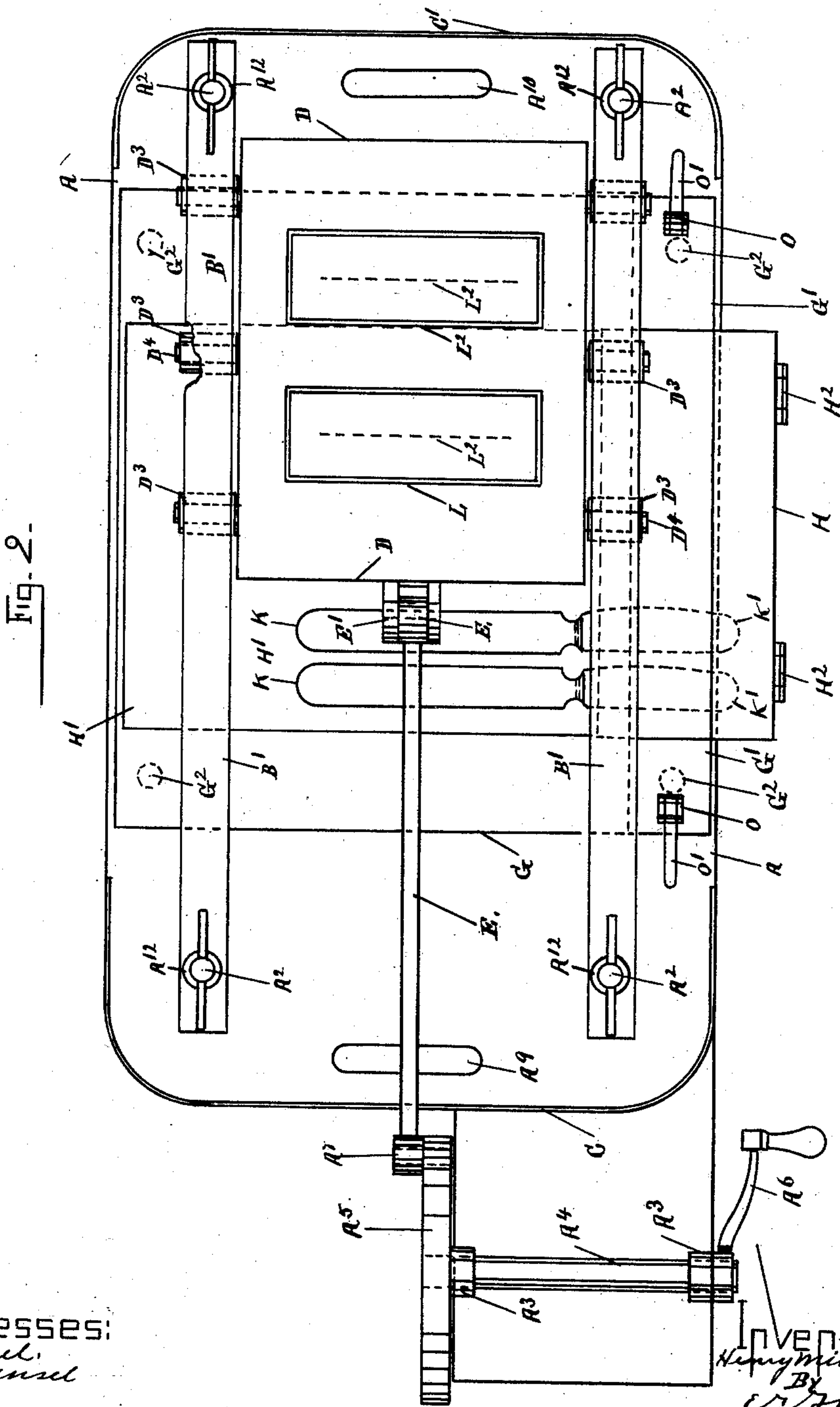
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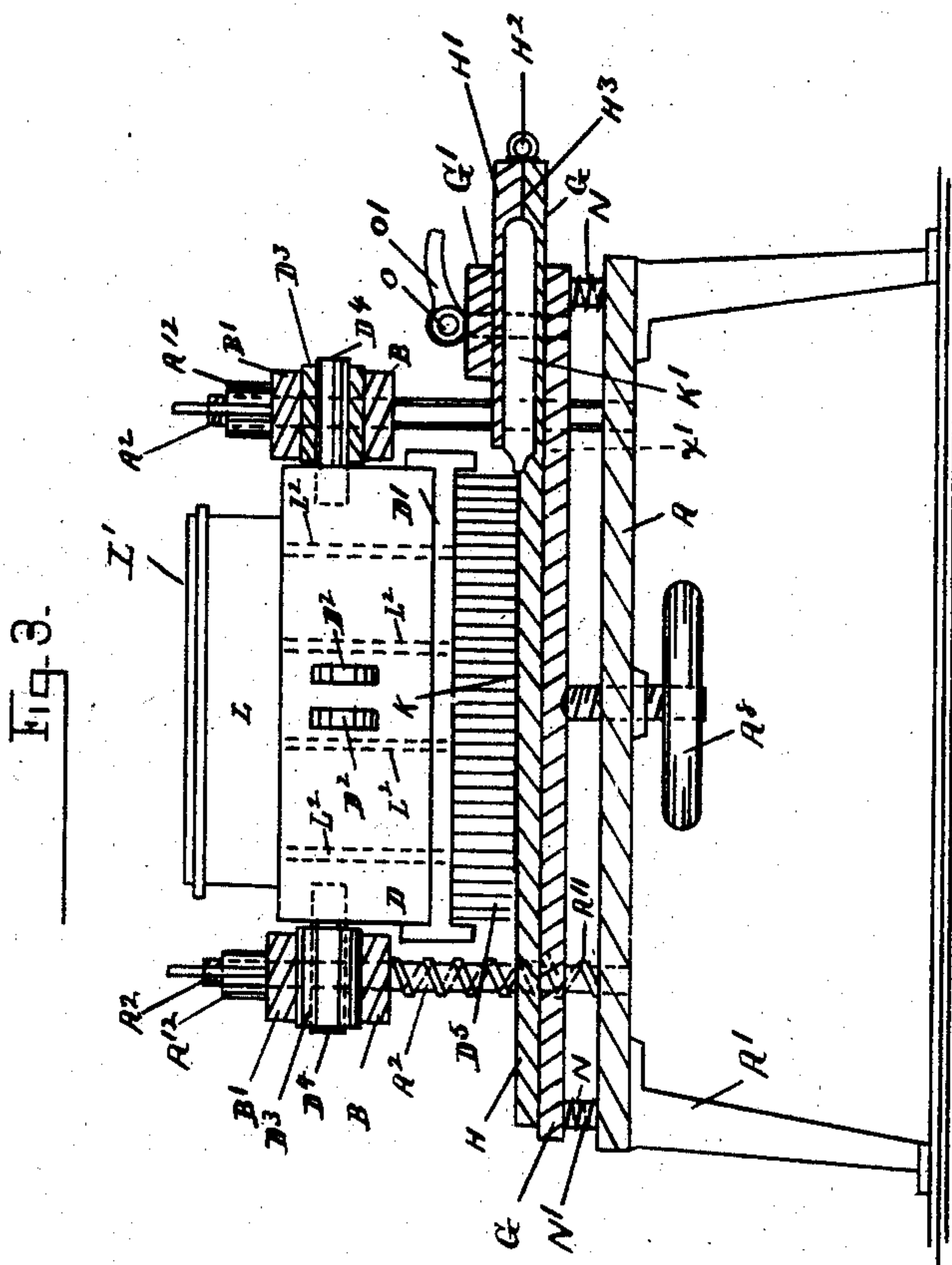
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3 Sheets—Sheet 3.



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UNITED STATES PATENT OFFICE.

HENRY MICHAUX, OF NEW YORK, N. Y.

KNIFE-CLEANING MACHINE.

SPECIFICATION forming part of Letters Patent No. 706,677, dated August 12, 1902.

Application filed April 7, 1902. Serial No. 101,673. (No model.)

To all whom it may concern:

Be it known that I, HENRY MICHAUX, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Knife-Cleaning Machines, of which the following is a specification.

The object of this invention is to polish or grind knives.

The invention consists in an adjustable reciprocating brush, means to hold and distribute a grinding material, and a knife-locking device.

Figure 1 is a side view of the machine. Fig. 2 is a top view of Fig. 1, and Fig. 3 represents a cross-sectional view of Fig. 1 on line α .

A in the several figures represents the bed of the machine which supports the several parts. It is mounted on legs A' and has fixed screws A² for supporting bars B and B', which form a guide or track for the friction-rolls D³ of the brush-carrying block D.

A¹¹ represents springs which support the bars B and permit the adjustment of the nuts A¹² for the purpose of readily setting the brush D to any desired pressure on the article to be polished or to compensate for the wall of the brush. The bars B and B' are kept apart sufficiently to allow the friction-rolls D³ to have free play by aid of the blocks B⁴, Fig. 1.

A⁵, Figs. 1 and 2, is a disk mounted on the arbor A⁴, which is supported on the stanchions A³. This disk is provided with a crank-pin A⁷, which operates the crank-arm E, pivoted at E' to the brush-carrier D.

G is an adjustable bed-plate supported by the studs G² and is raised or lowered by the screw A⁸.

G' is a bar held by the stanchions N. This bar in conjunction with the bed G forms a clamp to support and lock the knife-holder H.

H, Figs. 1 and 3, is a knife-holder having a sink for the knife-handle K' and a rest for the blade of the knife K.

H' is a cap hinged at H² to the holder H and is provided with a sink to correspond with the upper part of the handle K'.

The knife-holder H is held in position by the cam-levers O', pivoted at O to the stanchion N. The spring N' raises the bar G' from the clamp H whenever the lever O is swung up.

D', Fig. 3, is a brush-block secured to the carrier D, in which are set bristles of any suitable kind.

L represents boxes secured to the carrier D and are provided with covers L' and passages L², leading through the brush-carrier D and brush-block D', permitting the powder used for polishing to pass to the brush.

C and C' are copings to prevent the powder from scattering or being wasted as it is thrown off the brush.

The passages A⁹ and A¹⁰ are used in cleaning the gathered powder from the receptacle formed by the copings.

The operation is as follows: The knife holder or lock H is removed from the machine and the top part H' opened. The knives K are placed in the several sinks and the top part H' closed. The holder is then passed between the bed G and bar G', as shown in Fig. 3. The cam-levers O' are then swung down, which locks the holder and knives in place. Any kind of suitable powder, such as emery, is then put into the boxes L, and the crank A⁶ is turned, which operates the brush back and forth over the knife-blades. When one side has been properly cleaned or ground, the holder is removed and the knives turned in the holder, which is again put in place, as before described.

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

1. The bed A supporting the adjustable bed G and the screw A⁸, the knife-holder H and clamp-bar G', in combination with the reciprocating brush-carrier D having brush D' and receptacle L provided with passages L² as set forth.

2. The bed A supporting the adjustable bed G, the stanchions N, the bar G' and cam-lever O', in combination with the knife-holder H and the reciprocating brush D' having receptacles L and passages L² as set forth.

3. The bed A stanchion A² bars B and B'

forming a track for the friction-rolls D³, the springs A² and nut A¹², in combination with the stanchions N bar G' cam-lever O', knife-holder H and reciprocating brush D' as set forth.

4. The bed A having the copings C and C' the arbor A⁴ and disk A⁵, operating the rod E and carrier D, in combination with the adjustable bar G' cam-lever O' knife-holder H
10 brush D' and boxes L as set forth.

5. The bed A having screw A⁸ screw-stanchions A² disk A⁵ crank-rod E to operate the brush-carrier D, in combination with the bed G, stanchions N, bar H', cam-lever O', knife-

holder H and reciprocating brush D' as set forth. 15

6. The bed A having screw-stanchions A² spring A¹¹ bars B, blocks B⁴ bars B' and nuts A¹², in combination with the brush-carrier D having rolls D³ brush D', knife-holder H and
20 bar G held by the cam-lever O' as set forth.

Signed at New York city, in the county of New York and State of New York, this 20th day of June, A. D. 1900.

HENRY MICHAUX.

Witnesses:

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