

No. 673,355.

Patented Apr. 30, 1901.

H. J. BARTON.

SHARPENING DEVICE FOR LAWN MOWERS.

(Application filed Sept. 8, 1900.)

(No Model.)

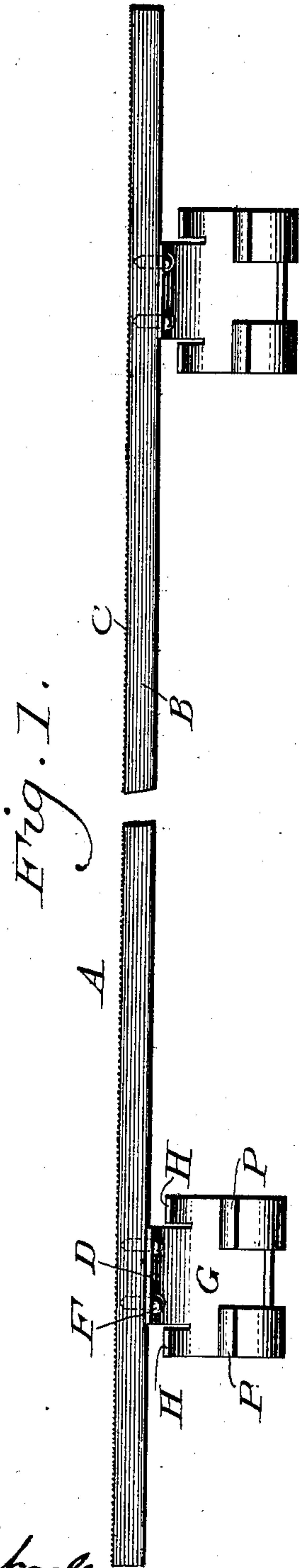


Fig. 2.

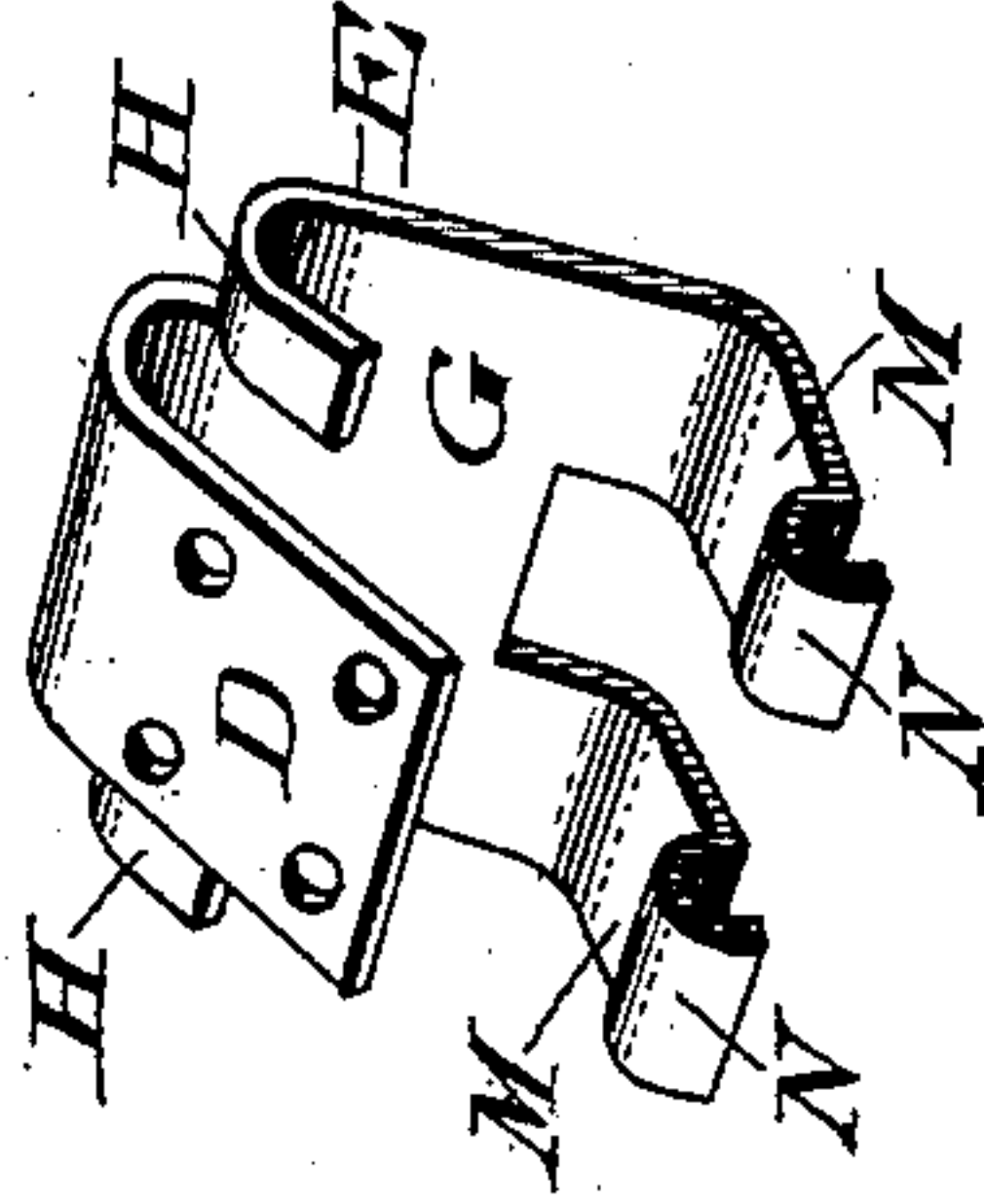
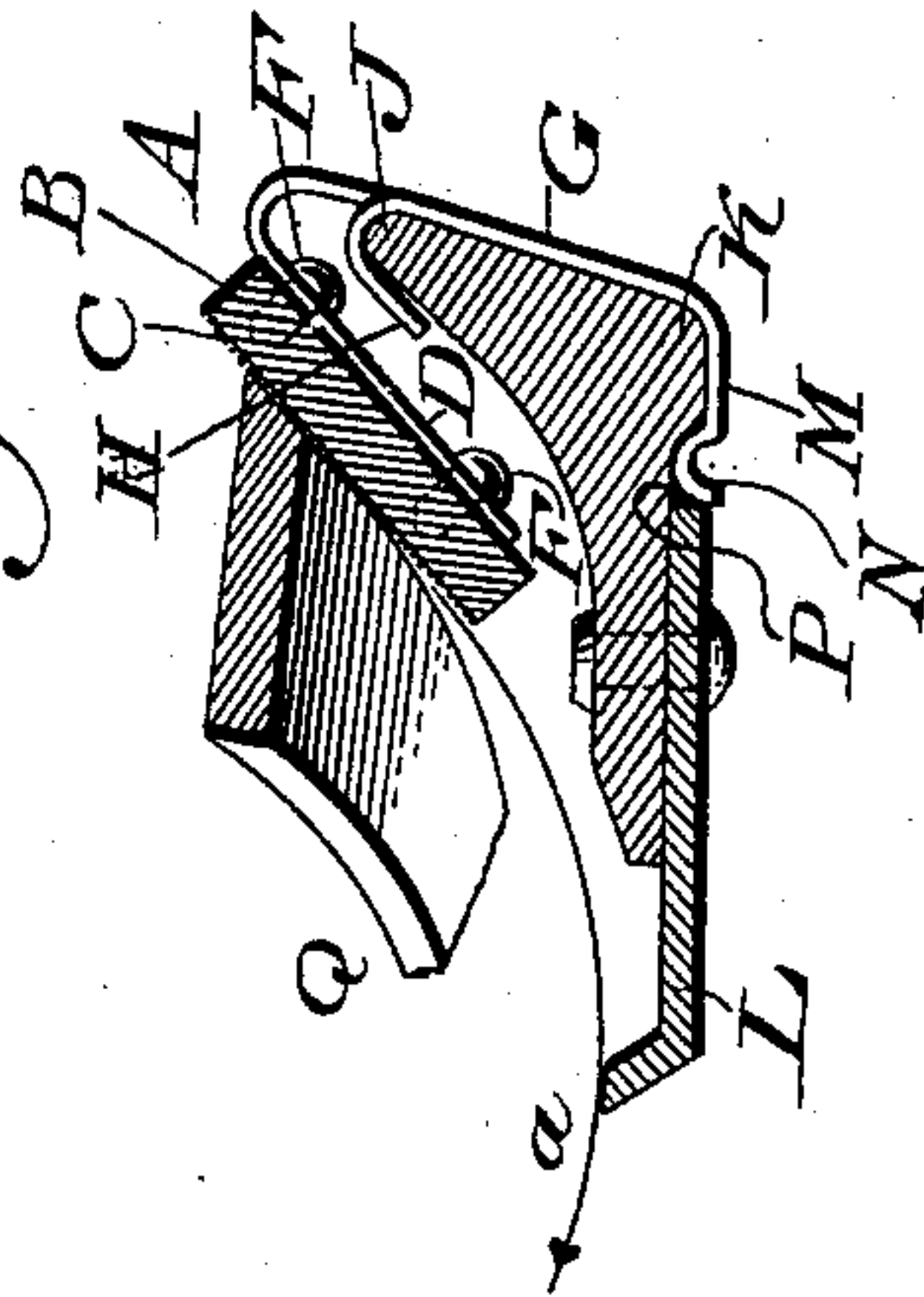


Fig. 3.



Witnesses
P. F. Stagle.
L. Bouville.

Inventor
Harvey J. Barton.
Niedersheim & Laubank,
Attorneys

UNITED STATES PATENT OFFICE.

HARVEY J. BARTON, OF PHILADELPHIA, PENNSYLVANIA.

SHARPENING DEVICE FOR LAWN-MOWERS.

SPECIFICATION forming part of Letters Patent No. 673,355, dated April 30, 1901.

Application filed September 8, 1900. Serial No. 29,382. (No model.)

To all whom it may concern:

Be it known that I, HARVEY J. BARTON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Sharpening Devices for Lawn-Mowers, of which the following is a specification.

My invention relates to a sharpener for lawn-mowers; and it consists of a novel construction of a sharpening device whereby it can be expeditiously attached to and disconnected from lawn-mowers, and the rotary knives can be quickly sharpened by revolving them in a direction opposite to that in which they run when cutting, and thus the proper edge of the knife is presented to the sharpener and the entire length of the knife is sharpened.

It also consists of a novel construction of a spring-clip adapted to be attached to the sharpening device or emery-bar, whereby the desired resiliency for the emery-bar is attained.

It further consists of novel details of construction, all as will be hereinafter fully set forth, and particularly pointed out in the claims.

Figure 1 represents a front elevation of a sharpening device for a lawn-mower embodying my invention. Fig. 2 represents a perspective view of one of the spring-clips employed in detached position. Fig. 3 represents a transverse sectional view showing a bar of the lawn-mower with the stationary cutting-blade attached thereto, said bar supporting my novel sharpening device and showing the relative position thereof with respect to the rotary cutter.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a sharpening device for lawn-mowers, the same consisting of a bar of wood or other suitable material B, having emery or other suitable grinding material C on one surface thereof, the opposite surface of said strip having attached thereto the member D of the spring-clip E by suitable fastening devices F. The member D is attached to or is integral with the body portion G of said clip E and extends

at an angle thereto, as will be understood from Figs. 2 and 3, said portion having the fingers H projecting therefrom, which are adapted to engage the upper portion J of the cutter-bar K, upon which the lower or stationary blade or cutter L is carried. The portion of the clip is provided at its lower extremity with the catches M, the same consisting of the laterally-extending arms and the deflected portions N, which are adapted to be seated in the recess P, which ordinarily exists between the edge of the blade L and the cutter-bar K, as will be understood from Fig. 3.

Q designates a portion of the rotary cutter of the lawn-mower, which latter is of the usual construction, and I have not, therefore, deemed it necessary to illustrate the same in detail, as said lawn-mower, *per se*, forms no part of the present invention.

The operation is as follows: When it is desired to sharpen the rotary cutter Q, the sharpening-bar B is placed in the position seen in Fig. 3, the fingers H engaging the portion J of the bar K, while the deflected portion N engages the recess P, it being seen that the said bar is supported upon the spring-clips E, so that it can yield according to requirements as the cutter Q is revolved. The sharpening device having been placed in position, the lawn-mower is operated so that the rotary cutter or knives Q revolve in a direction opposite to that in which they run when the machine is cutting, as indicated by the arrow *a* in Fig. 3, so that the proper edge of the knife is presented to the bar and the entire length of the knife is sharpened.

It will be apparent from the foregoing that the sharpening device can be readily attached to or disconnected from a lawn-mower of usual construction, and that a simple and effective appliance has been devised for the purpose intended which can be cheaply manufactured and is not liable to get out of order.

It will be apparent that changes may be made by those skilled in the art which will come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact construction herein shown and described.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a sharpening device for lawn-mowers, consisting of
5 an emery-bar and spring-clips attached to said bar, said clips being provided with fingers adapted to engage a suitable portion of the lawn-mower.

2. As an improved article of manufacture,
10 a sharpening device for lawn-mowers, consisting of an emery-bar having spring-clips attached thereto, said clips consisting of a body portion, a resilient member projecting therefrom at an angle and adapted to sustain
15 said emery-bar, fingers projecting from said body portion and adapted to engage a bar of the lawn-mower, said body portion having

laterally-extending arms adapted to engage the lower portion of said bar.

3. As an improved article of manufacture, 20 a sharpening device for lawn-mowers, consisting of an emery-bar, clips supporting said emery-bar, fingers projecting from said clips and adapted to engage the upper part of a bar of a lawn-mower, and laterally-extending 25 arms adapted to engage the lower portion of said bar of the lawn-mower, said fingers and arms forming the sole medium of connection for the emery-bar.

HARVEY J. BARTON.

Witnesses:

WM. CANER WIEDERSHEIM,
JOHN A. WIEDERSHEIM.