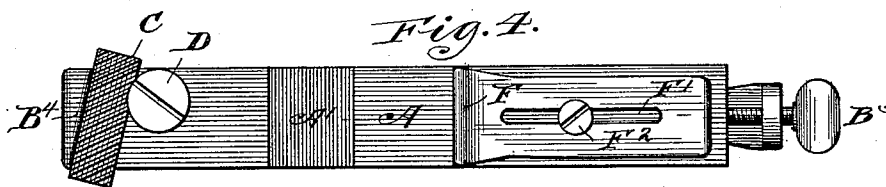
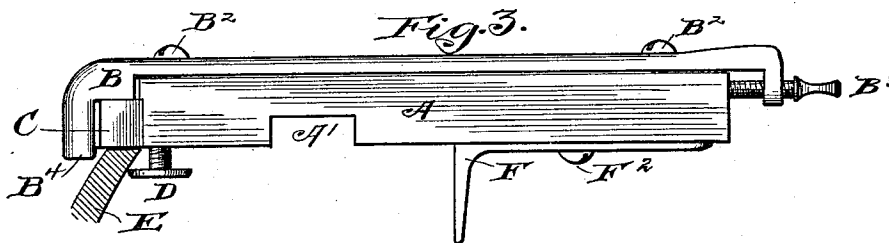
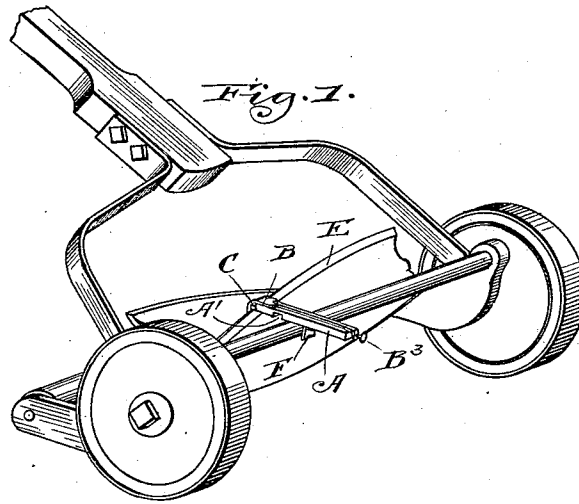


(No Model.)

A. M. BACHELDER & L. B. GARRETT.
LAWN MOWER SHARPENER.

No. 463,676.

Patented Nov. 24, 1891.



Witnesses,
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UNITED STATES PATENT OFFICE.

ALFRED M. BACHELDER AND LINCOLN B. GARRETT, OF ROCKFORD,
ILLINOIS.

LAWN-MOWER SHARPENER.

SPECIFICATION forming part of Letters Patent No. 463,676, dated November 24, 1891.

Application filed September 21, 1891. Serial No. 406,409. (No model.)

To all whom it may concern:

Be it known that we, ALFRED M. BACHELDER and LINCOLN B. GARRETT, citizens of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Lawn-Mower Sharpeners, of which the following is a specification.

Our invention relates to an improved implement for sharpening lawn-mowers; and it consists of certain new and useful features of construction and combinations of parts hereinafter described, and specifically pointed out in the claims.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is an isometric view of a lawn-mower and our invention, showing the manner in which the latter is operated to sharpen the former. Figs. 2, 3, and 4 are respectively a top plan view, a side elevation, and a bottom plan view of our invention.

Like letters of reference indicate corresponding parts throughout the several views.

A is the foundation-piece of the sharpener. A' is a slot therein allowing the passage of screw-heads therethrough when the sharpener is used on a lawn-mower having a bed-piece screwed thereon, which bed-piece is utilized as a way for the sharpener to slide upon instead of an axle, as in Fig. 1.

B is a file-clamp connected with its foundation-piece A by means of longitudinal slots B' therein, and screws B² inserted therethrough in such a manner that they may be longitudinally adjusted to each other. Evidently, however, the foundation-piece A and clamp B might be formed in a single piece and be equally operative, though less convenient. We therefore do not desire to limit ourselves to the construction composed of two parts.

B³ is a thumb-screw for adjusting the clamp B to the foundation-piece A.

B⁴ is a lug, which is preferably integral with and a prolongation of the part B.

C is a file secured to the part A by means of the clamp B.

D is a lug projecting from the foundation-piece A.

It is essential to the successful operation of the sharpener that there should be a projection of some kind on each side of the file

C, as B⁴ D, one to turn a knife E of the lawn-mower forward as the file passes along its edge, and the other to turn it backward as the sharpener is returned to the point from whence it was started to operate. Obviously it is not material what form is given to these necessary projections or lugs, or whether they are integral with or only secured to the sharpener, so long as they are arranged to reciprocate along the knives in the manner already described. It is also equally obvious that the file-clamp B might be operated in other ways than that shown without departing from the spirit and scope of our invention.

F is a guide for adjusting the sharpener to lawn-mowers of varying sizes. This guide glides along the back edge of the bed-piece in mowers having bed-pieces, and along the mower-axle in mowers not having bed-pieces, of which class Fig. 1 is a representation. The guide F is adjustable by means of a slot F' therein and a set-screw F² inserted therethrough.

The sharpener is operated by sliding it back and forth while in the position shown in Fig. 1, and thereby causing the file C to traverse and retrace the entire length of the edge of each knife of the lawn-mower until the requisite degree of sharpness is attained.

We claim—

1. In a lawn-mower sharpener, in combination, the foundation-piece, the file-clamp, the file, and the lugs or projections for turning the lawn-mower knives backward and forward while they are being sharpened, substantially as and for the purpose specified.

2. In a lawn-mower sharpener, in combination, the foundation-piece, the file-clamp, the file, the lugs located on each side of said file for turning the lawn-mower knives backward and forward while they are undergoing the operation of being sharpened, and the adjusting-guide, substantially as and for the purpose specified.

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