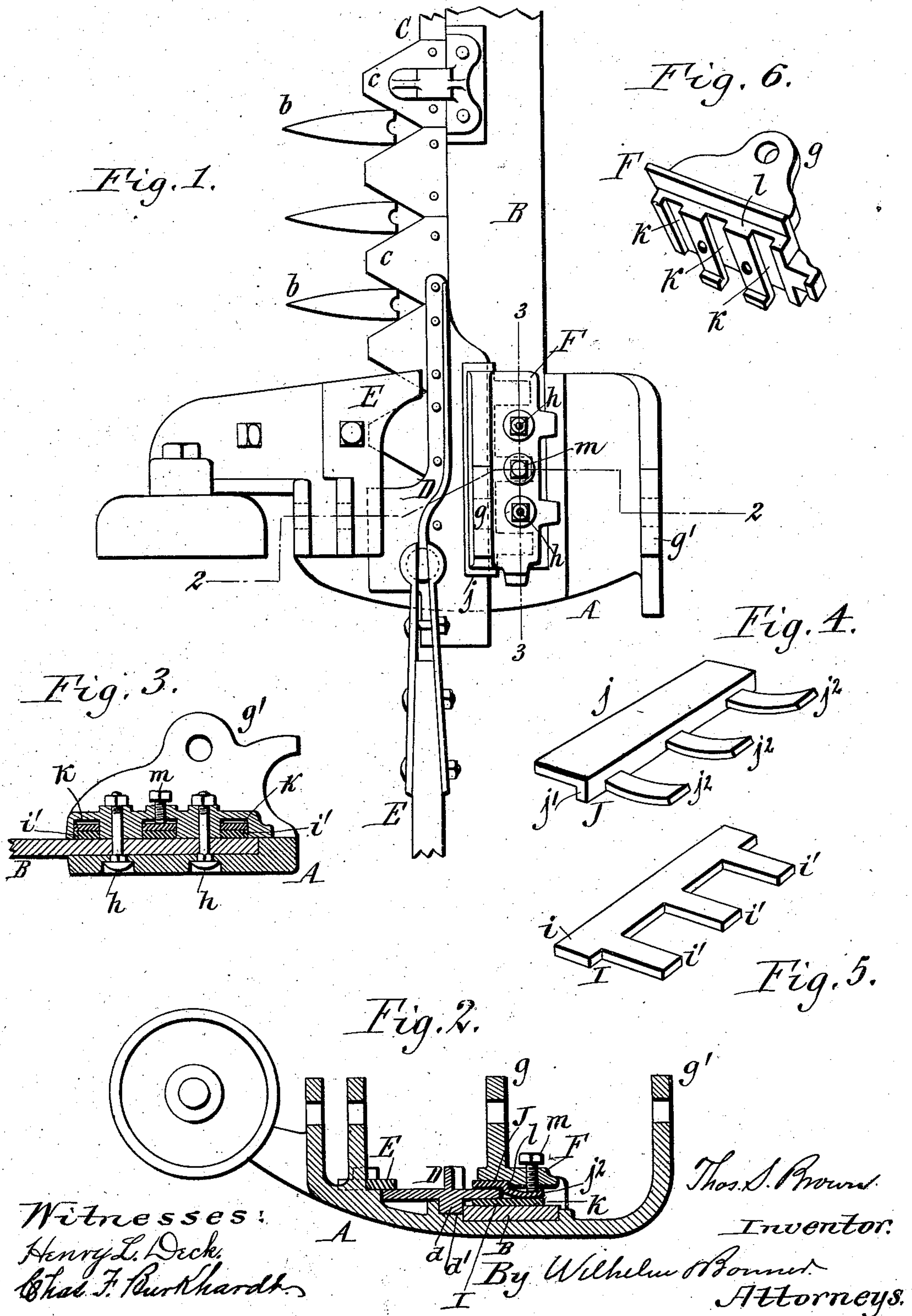


(No Model.)

T. S. BROWN.
MOWER.

No. 604,851.

Patented May 31, 1898.



UNITED STATES PATENT OFFICE.

THOMAS STUART BROWN, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR TO
THE ADRIANCE, PLATT & COMPANY, OF SAME PLACE.

MOWER.

SPECIFICATION forming part of Letters Patent No. 604,851, dated May 31, 1898.

Application filed December 15, 1897. Serial No. 661,979. (No model.)

To all whom it may concern:

Be it known that I, THOMAS STUART BROWN, a citizen of the United States, residing at Poughkeepsie, in the county of Dutchess and State of New York, have invented new and useful Improvements in Mowers, of which the following is a specification.

This invention relates to the guide devices whereby the head at the inner end of the cutter-bar is guided in the adjacent shoe.

The object of this invention is to provide removable wear-pieces of simple construction which can be easily applied and removed and which can be firmly clamped in position.

In the accompanying drawings, Figure 1 is a fragmentary top plan view of the shoe and the cutter mechanism. Fig. 2 is a vertical longitudinal section thereof in line 2-2, Fig. 1. Fig. 3 is a vertical transverse section in line 3-3, Fig. 1. Figs. 4 and 5 are perspective views of the upper and lower gibs, respectively. Fig. 6 is a perspective view of the supporting-cap.

Like letters of reference refer to like parts in the several figures.

A represents the supporting-shoe at the inner end of the finger-bar B, which is secured to the top of the shoe and provided with the usual fingers or guards b. C represents the reciprocating cutter-bar carrying the knives or cutters c and provided at its inner end with the head D, which is pivotally connected with the pitman E. The head of the cutter-bar is provided centrally on its under side with a longitudinal rib d, which is guided in a way or groove d', formed between the shoe and the front edge of the finger-bar. The rear portion of the cutter-bar head overhangs the finger-bar. E represents the front retaining-plate, which is secured to the front portion of the shoe and overlaps the front portion of the head of the cutter-bar. F represents the supporting-cap, which overhangs the rear portion of the head of the cutter-bar and is provided with a lug g on the upper side. This lug and a similar lug g' on the rear end of the shoe are connected with the usual coupling-bar of the mowing-machine. The supporting-cap is secured to the top of the finger-bar and shoe by bolts h, passing through the shoe, bar, and cap, as shown in

Fig. 3. All of these parts may be of any ordinary or suitable construction.

I J represent lower and upper gibs, shims, or wear-pieces, between which the rear portion of the cutter-bar head is guided and which receive the greater portion of the wear. The lower gib consists of a flat wear-plate i, which is provided with one or more rearwardly-projecting flat tongues i'. The plate i is arranged between the top of the finger-bar and the underside of the cutter-bar head, and its tongues are arranged in recesses k, formed in the under side of the cap. The upper gib or shim consists of a flat wear-plate j, having a depending shoulder or offset j' along the rear edge of the plate and one or more curved tongues j'', projecting rearwardly from the offset. The wear-plate j is interposed between the top of the cutter-bar head and the under side of the front portion of the cap. The offset is arranged between the rear edge of the cutter-bar head and a forwardly-facing shoulder l on the under side of the cap, and the tongues rest upon the tongues of the lower gib within the recesses k. The gibs are held in place by a clamping-screw m, arranged in a screw-threaded opening in the cap and bearing down against the upper side of one of the tongues of the upper gib, whereby this tongue is pressed against that of the lower gib and the latter is pressed against the finger-bar. The tongues of the upper gib are curved and rest with their convex under sides on the tongues of the lower gib. The clamping-screw bears against the rear portion of one of the curved tongues in rear of the point at which the convex under side of the tongue is supported, and thereby rocks the tongue and causes the wear-plate of the upper gib to be pressed upwardly against the under side of the cap. The clamping-screw therefore presses the upper gib upwardly against its seat in the under side of the cap and the lower gib downwardly against the top of the finger-bar, whereby both gibs are securely clamped and rattling is prevented. When the gibs are worn out, they can be easily and quickly removed and renewed at a small cost.

I claim as my invention—

1. The combination with the finger-bar, the

shoe or support arranged at the inner end of the same, the reciprocating cutter-bar and its head, of a removable lower gib resting upon the finger-bar and supporting the rear portion of said head, an upper removable gib bearing with its front portion upon said head and with its rear portion upon the lower gib, and means whereby said gibs are held in place, substantially as set forth.

10 2. The combination with the shoe, of a cap having one or more recesses in its under side, a reciprocating cutter-bar and its head, and removable gibs arranged on the upper and lower sides of said head and provided with
15 tongues which are arranged in the recesses of the cap, and means whereby the gibs are clamped, substantially as set forth.

3. The combination with the shoe and the reciprocating cutter-bar head, of a cap secured to the shoe and provided on its under side with a forwardly-facing shoulder and with one or more recesses, a lower gib consisting of a wear-plate bearing against the
20 under side of the cutter-bar head and provided with a tongue projecting into the re-

cess of the cap, an upper gib consisting of a wear-plate interposed between the top of the cutter-bar head and the under side of the cap, a depending offset arranged between the rear edge of the cutter-bar head and the shoulder
30 of the cap and a tongue projecting into the recess of the cap, and means whereby the tongues are clamped in said recess, substantially as set forth.

4. The combination with the shoe or support and the cutter-bar head, of a cap which projects over said head, an upper gib seated in the under side of said cap and having a curved tongue, a lower gib having a tongue on which said curved tongue rests, and a
40 clamping-screw which bears upon the curved tongue and whereby the upper gib is pressed upwardly and the lower gib downwardly, each against its seat, substantially as set forth.

Witness my hand this 8th day of December, 1897.

THOMAS STUART BROWN.

Witnesses:

J. MORSCHAUER,
PILAR MARILL.