

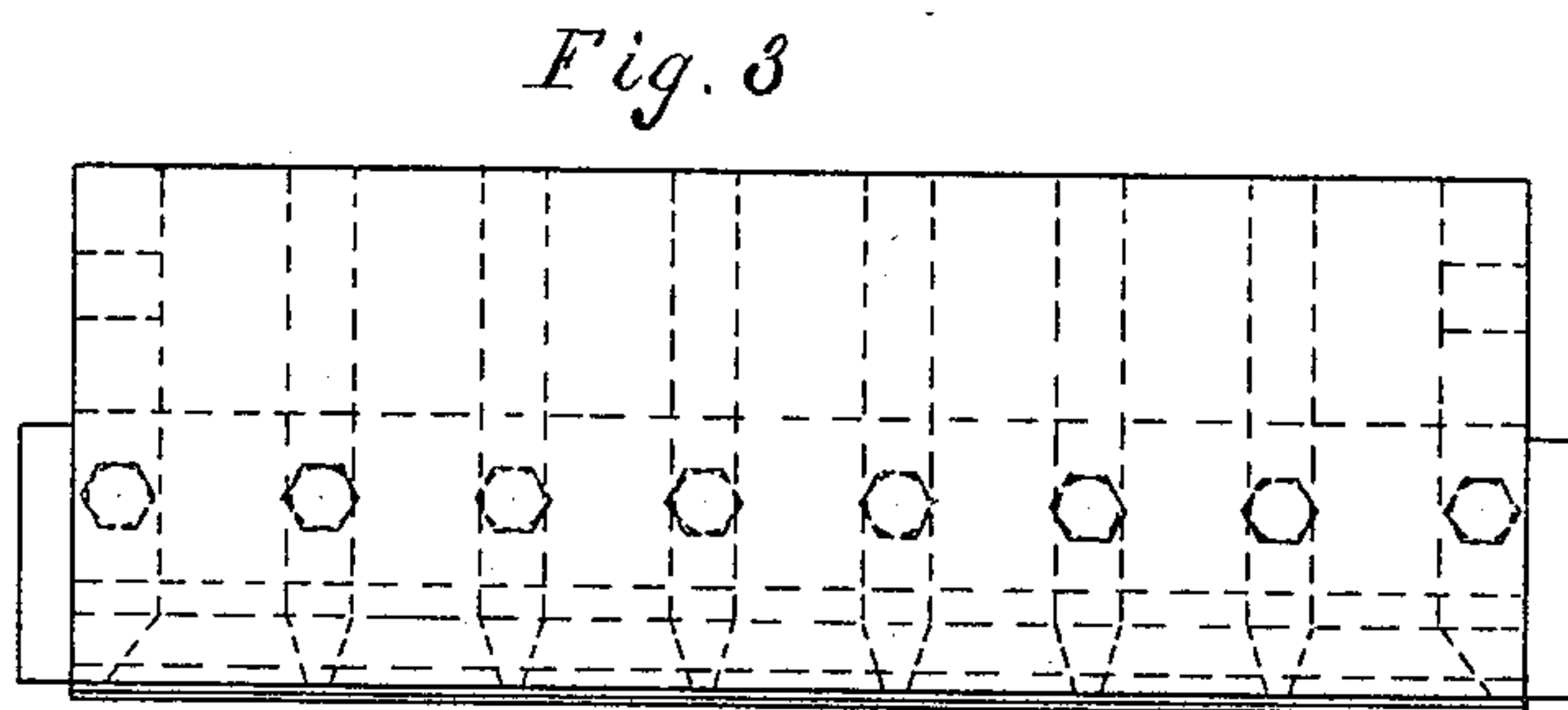
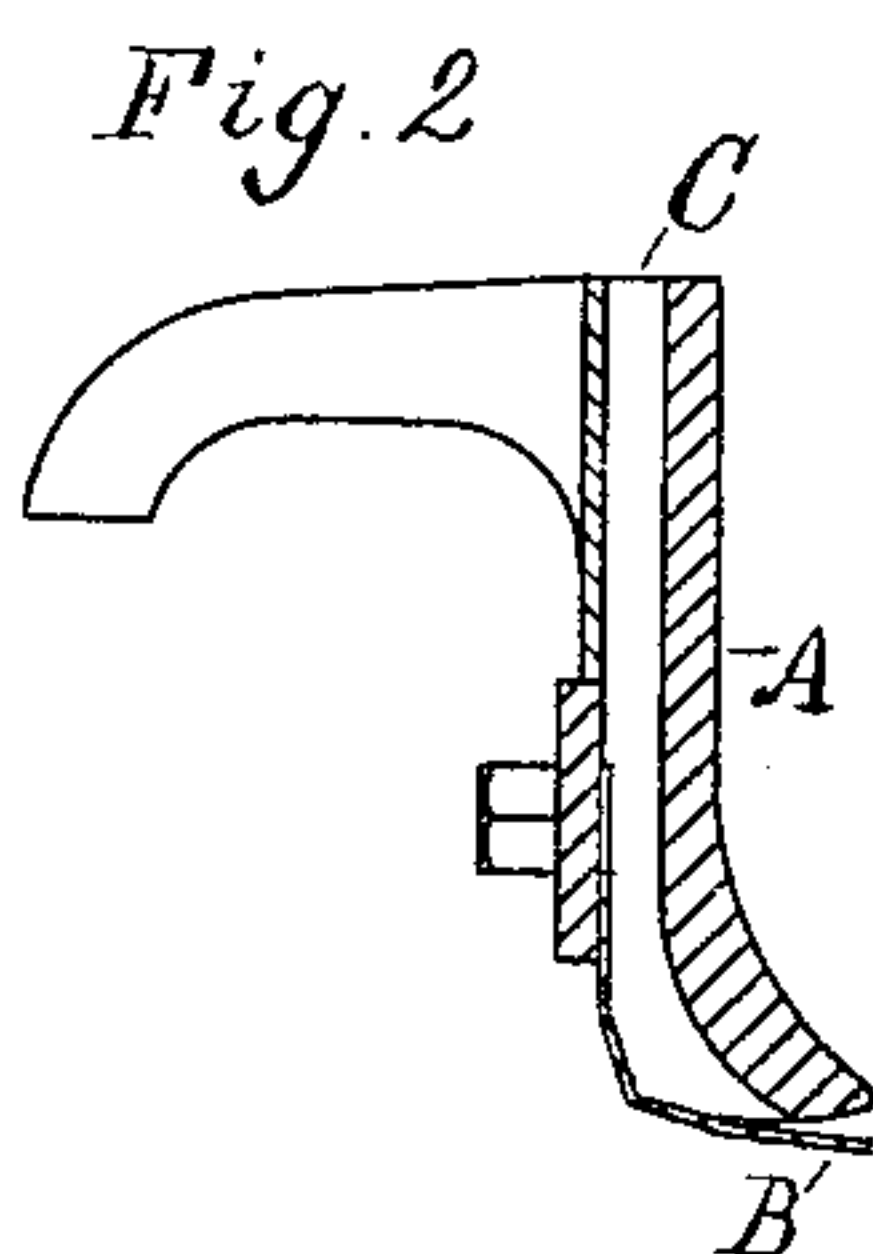
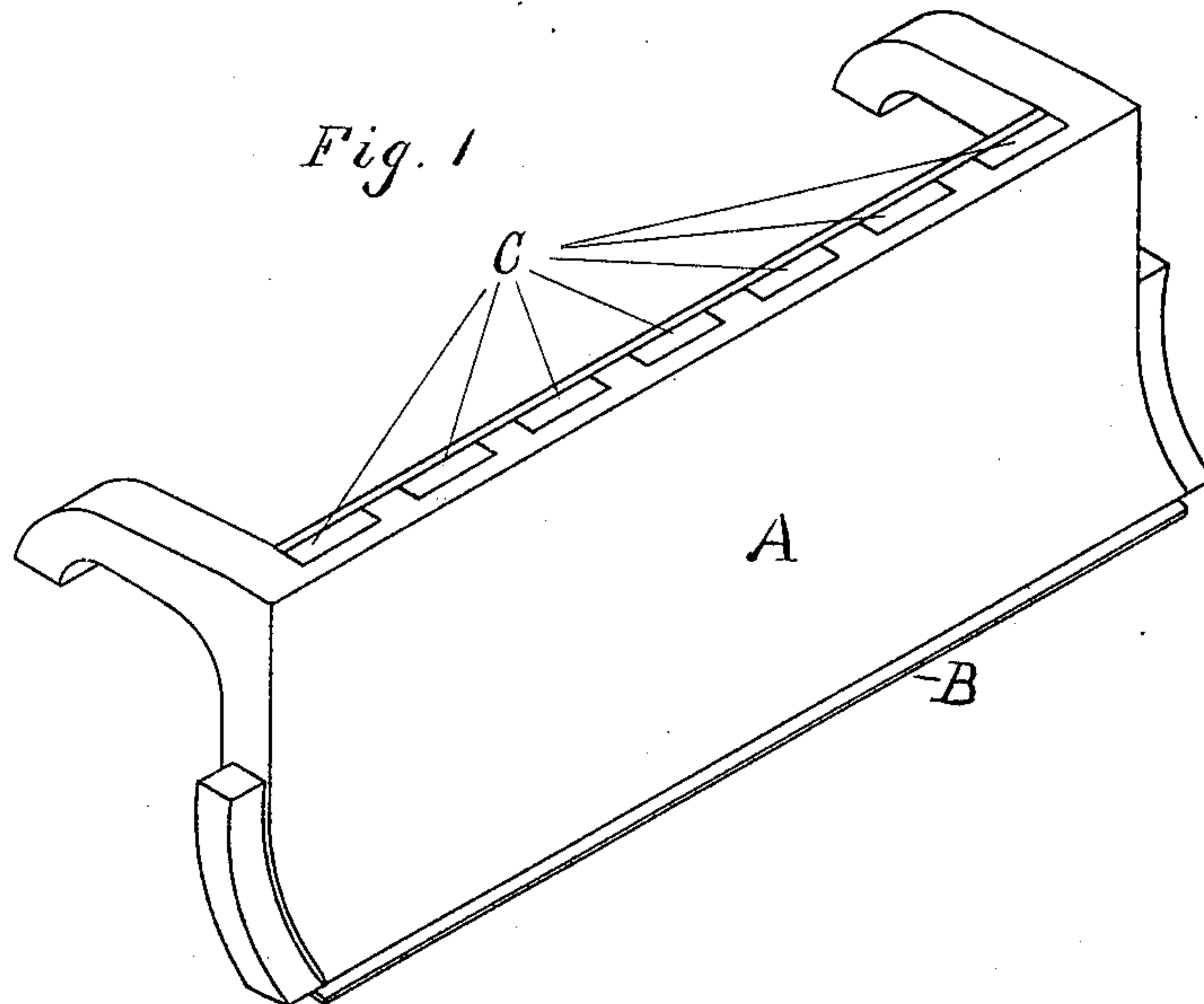
(No Model.)

B. D. WHITNEY.

PLANING MACHINE.

No. 371,399.

Patented Oct. 11, 1887.



Witnesses
Fred E. Parker.
Charles J. Stockman.

Inventor
Baxter L. Whitney
per John E. Parker
att'y

UNITED STATES PATENT OFFICE.

BAXTER D. WHITNEY, OF WINCHENDON, MASSACHUSETTS.

PLANING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 371,399, dated October 11, 1887.

Application filed April 14, 1887. Serial No. 234,756. (No model.)

To all whom it may concern:

Be it known that I, BAXTER D. WHITNEY, a citizen of the United States, residing at Winchendon, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Planing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates more particularly to that part of the machine technically known as the "presser-bar," and is applicable to mechanism described in Letters Patent No. 259,958, granted to me June 20, 1882, to which reference may be had for a more complete description of the same, so that it need not be herein described only so far as relates to the peculiar construction and arrangement which differ therefrom and constitute my present invention, which consists in the formation and arrangement of suitable ducts or passages for the exit of shavings, chips, dust, &c., which might otherwise lodge between the different parts of the presser-bar to obstruct its proper action, which construction will more fully appear in the following description and annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a presser-bar as designed for use in my above-mentioned machine. Fig. 2 is a vertical cross-section through the shaving-duct. Fig. 3 is a horizontal longitudinal elevation showing the formation and arrangement of the shaving-ducts.

This improved presser-bar consists of two parts—namely, a rigid plate or bar, A, and a supplemental spring-plate or flexible foot, B, which is made of sheet-steel or other suitable material to bear upon the surface of the lumber to be planed and act as a chip-breaker, and to hold it more firmly for the action of the cutters. This flexible foot is attached by a clamp or other suitable means to the part A, which, by its design and conformation, also serves as an auxiliary support to the operative portion of the flexible foot B to prevent its undue deflection and injury, and the whole bar may be movably mounted to compensate for inequali-

ties beyond the range of the flexible part, as more fully explained in my former specification, to which reference is made, as the purpose, application, and use, as well as some features of its construction, are very similar to those of the presser-bar G and its connections, as described in my aforementioned patent. In the employment of a flexible foot with an auxiliary support, however, there is a tendency to the hinderance of a proper action of the parts by the lodgment of shavings, &c., and to obviate difficulties of this nature is the object of my present invention, by which I provide for the exit of such matter by ducts, channels, or conduits, (one or more,) leading from between the parts A and B next the cutter-head outwardly, either through the bar A or plate B, so that whatever enters between the bearing-surfaces of A and B may have passage beyond or outside of the inner surface of A or surface next to the cutter-head, and thus avoid adverse influences to which openings on the side next the cutter-head (as in my former bar) may be subject, and thereby more fully insuring advantageous action of air-currents generated by motion of the cutter-head or otherwise (as by suction-fans, &c., often used) for the removal of waste material. These ducts or passages may be formed between ribs or projections from the back of bar A, to which the plate B is attached, as shown in Fig. 3, or by mortises or funnels through parts of the bar, and may be of any number and form best suited to facilitate the escape of the extraneous matter connected directly to an exhaust-fan or terminate in any position which may utilize the currents of air from the cutter-head, as may be expedient.

To more particularly define my present invention, I claim—

In combination with a plate or bar, A, and a flexible presser-plate, B, one or more ducts or passages, C, outside of the inner face of said plate or bar A—that is, upon the side of said inner face opposite to the cutter-head, substantially as described.

BAXTER D. WHITNEY.

Witnesses:

SAML. A. PARKER,
WM. M. WHITNEY.