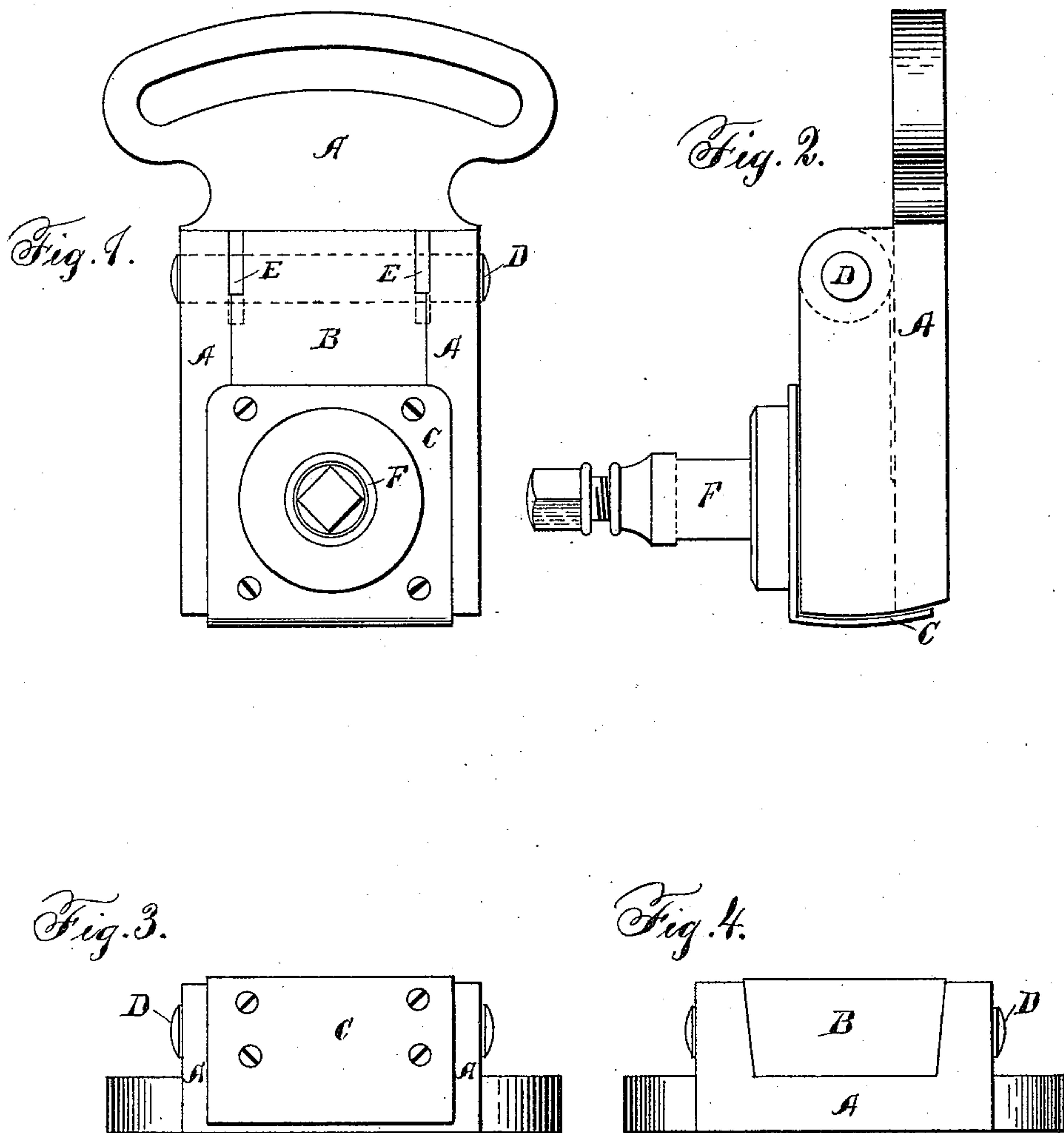


(No Model.)

F. I. GETTY.
PLANER AND SHAPER.

No. 441,152.

Patented Nov. 25, 1890.



Witnesses.

Thos. P. Sheridan.
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FRED I. GETTY, OF SPRINGFIELD, ILLINOIS.

PLANER AND SHAPER.

SPECIFICATION forming part of Letters Patent No. 441,152, dated November 25, 1890.

Application filed July 22, 1890. Serial No. 359,509. (No model.)

To all whom it may concern:

Be it known that I, FRED I. GETTY, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented a new and useful Improvement in Planers and Shapers, of which the following is a specification.

My invention relates to that part of the planer or shaper known as the "clapper" and "clapper-box;" and it consists of an improved form, the objects of such improvement being to remedy a difficulty inherent in planers and shapers of the ordinary construction—viz., looseness between the clapper and clapper-box, which allows side motion of the clapper when the tool is taking a cut. I attain these objects by the construction shown in the accompanying drawings, in which—

Figure 1 is a front, Fig. 2 is a side, and Fig. 3 a bottom view of the device as it is in the machine with the tool-post F removed. Fig. 4 is like Fig. 3, except that the dust-shield C is removed.

Similar letters refer to similar parts throughout the several views.

A represents the clapper-box, and B the clapper, carrying the tool-post F.

D is a pin upon which the clapper B swings, and may be either straight or tapering.

E E are washers between the clapper B and box A, through which the pin D passes.

C is a dust-shield attached to clapper B by screws.

In Fig. 4 it will be noticed that the sides of clapper B and the insides of the box A are beveled so as to fit each other, so that when the tool is taking a cut the clapper B bears on both the bottom and insides of the box A, thus preventing any side movement of the tool, whereas in the ordinary construction of planers and shapers the sides of the clapper and the insides of the clapper-box are square with the bottom, and a certain amount of freedom is necessary, so that the clapper may swing

upon its pin, and such freedom is increased by the wear of the sides of the clapper and the insides of the box, and there is no remedy.

In the improved form shown in the drawings the clapper B is free to swing between the washers E E upon the pin D and then fit perfectly tight in the box A when it drops down in position for the tool to take a cut, as shown.

It will be noticed from Fig. 2 that the bottom of clapper B and box A are curved, the center of the circular arcs being in the center of the pin D. The dust-shield C, which is attached to both front and bottom of clapper B, is bent around the corner and under the clapper and clapper-box and extends nearly to the back of the clapper-box A. A portion of the shield C is curved so as to match the bottom of clapper B, to which it is attached. The clapper B, being a little longer than the clapper-box A, is permitted to swing the shield C without its touching the box A. It will readily be seen that the shield C is not strictly necessary, as the device may be constructed and operated without it. In that case the bottom of the clapper and clapper-box may be straight instead of curved.

Having described my invention, what I claim as new, and desire to have protected by Letters Patent, is—

1. In a planing or shaping machine, the combination of a clapper B, with beveled sides, and a clapper-box A, with beveled insides, adapted to receive the clapper B, in connection with the washers E E, substantially as shown, and for the purposes set forth.

2. In a planing or shaping machine, the combination of a clapper B, clapper-box A, and dust-shield C, substantially as shown, and for the purposes set forth.

FRED I. GETTY.

Witnesses:

THOS. F. SHERIDAN,
NASH MITCHELL.