

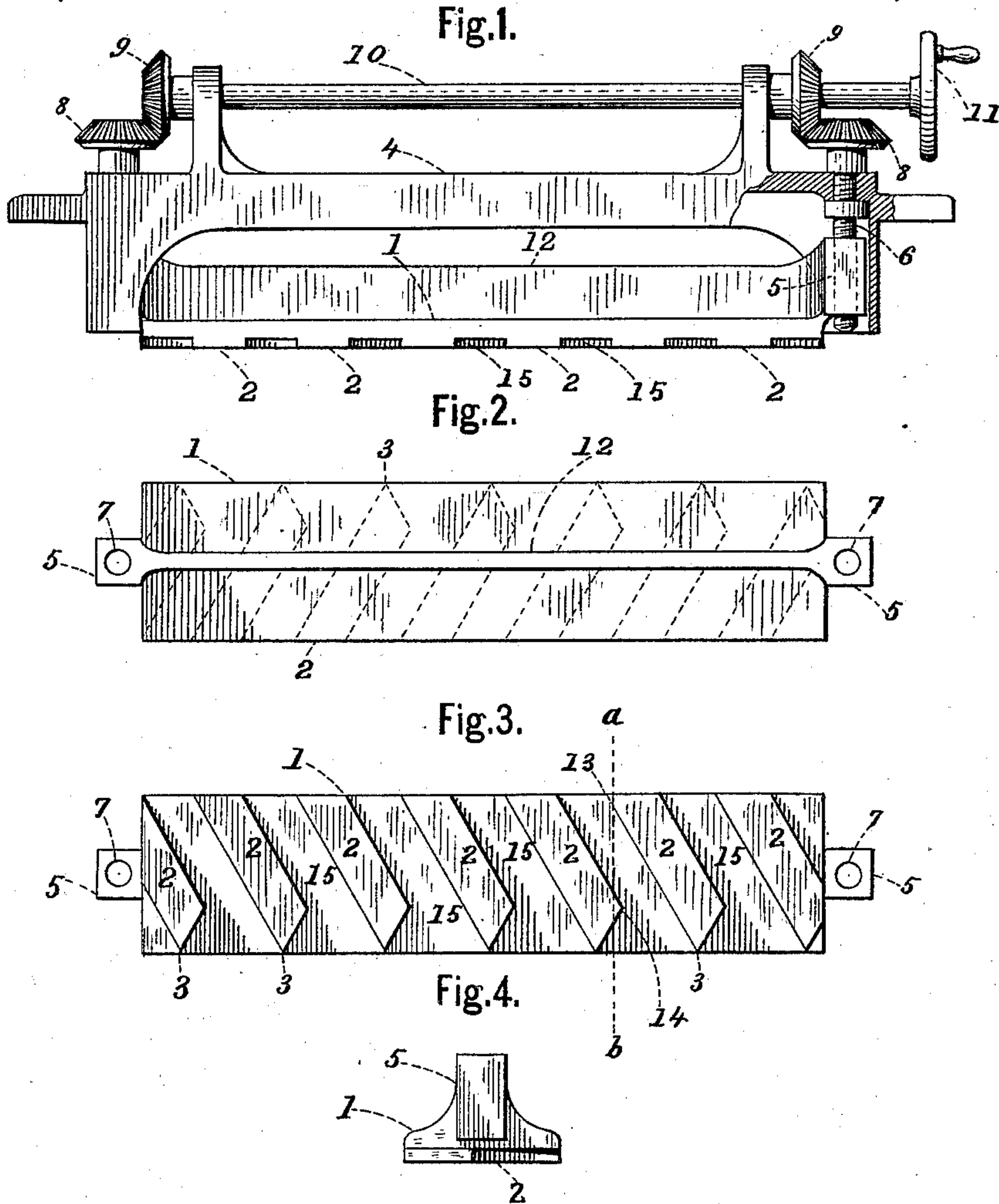
(No Model.)

F. H. CRAFTS.

PRESSURE PLATE FOR PLANING MACHINES.

No. 395,487.

Patented Jan. 1, 1889.



Witnesses.  
*Charles Sangster.*  
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# UNITED STATES PATENT OFFICE.

FRANCIS H. CRAFTS, OF BUFFALO, NEW YORK, ASSIGNOR TO E. & B. HOLMES, OF SAME PLACE.

## PRESSURE-PLATE FOR PLANING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 395,487, dated January 1, 1889.

Application filed April 5, 1888. Serial No. 269,699. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS H. CRAFTS, a citizen of the United States, residing in Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Pressure-Plates for Planing-Machines, of which the following is a specification.

My invention relates to the pressure-plate of a planing-machine, and will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 represents a side elevation of the pressure-plate and the usual means for raising it up or down, a portion being broken away to expose one of the adjusting screw-shafts and its connecting parts. Fig. 2 is a top plan view of the pressure-plate, showing the shape and position of the diagonal ribs on the under side by dotted lines. Fig. 3 is an underside view of the pressure-plate. Fig. 4 is an end elevation of the same.

In planing-machines heretofore made the pressure-plates are usually provided with ribs on the under side running across the plate in the direction of the movement of the lumber. The objection to this construction when considerable pressure is used is that the ribs are very liable to make indentations or creases in the lumber, which is very annoying to the operator.

The object of my invention is to avoid this objection by placing on the under side or face of the pressure-plate 1 a series of diagonal ribs, 2, having on their front ends the pointed ends 3, the object of which is to more effectually cause the shavings, chips, or other matter that gathers during the operation of planing to pass each side of the ribs, which sweep everything off the lumber as it passes along

under the pressure-plate. This pressure-plate is connected with a planing-machine cross-head, 4, (see Fig. 1,) in the usual way, by means of slideways at each end, in which the end pieces, 5, of the pressure-plate are fitted to slide up or down. A vertical screw-shaft, 6, passes into the holes 7 at each end of the pressure-plate, and are each connected by bevel-gearing 8 9 with a horizontal shaft, 10, provided with a hand-wheel, 11, by which the pressure-plate 1 is adjusted up or down. This mechanism for adjusting the pressure-plate is the old and well-known means used for such purposes. The top of the pressure-plate is provided with the usual strengthening-rib, 12. (Shown in Fig. 1.) It will be noticed that the diagonal ribs 2 are set so that the ends 13 and 14 cross a line, *a b*, for instance, drawn across the face of the pressure-plate. Consequently the lumber which passes under it is entirely covered by the ribs 2, so that the lumber is fully covered, while there is ample room, 15, between the ribs for the chips or other matter to pass through. The pointed ends 3 may be dispensed with, if desired; but for many purposes they are of advantage.

I claim as my invention—

1. In a wood-planing machine, a vertically-adjustable pressure-plate having a series of diagonal ribs, 2, and openings 15 between them on its under face, as and for the purposes specified.

2. An adjustable pressure-plate for wood-planing machines provided with a series of diagonal ribs, 2, having pointed ends 3 and open diagonal spaces 15 between them, substantially as and for the purposes described.

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Witnesses:

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