W. C. MARGEDANT.

Planing-Machines.

No. 149,493. Patented April 7, 1874.

Fig. 1.

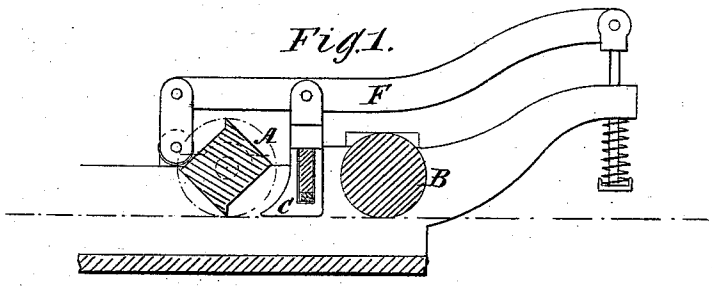


Fig. 2.

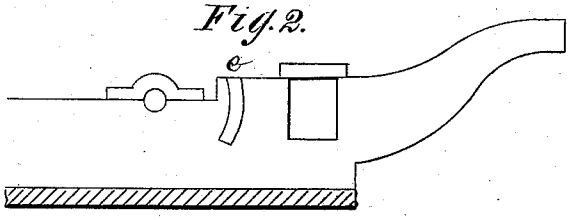


Fig. 3.

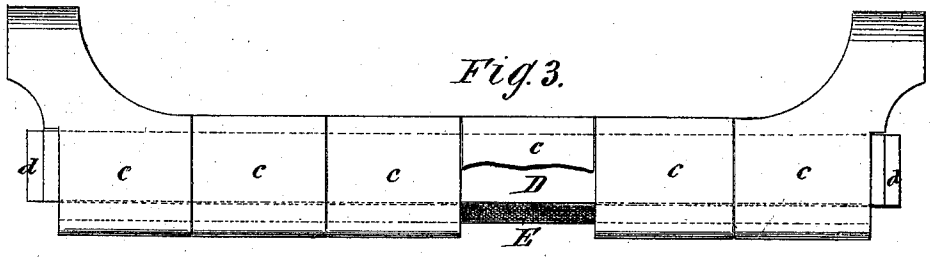
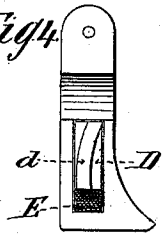


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM C. MARGEDANT, OF HAMILTON, OHIO, ASSIGNOR TO BENTEL, MARGEDANT & CO., OF SAME PLACE.

IMPROVEMENT IN PLANING-MACHINES.

Specification forming part of Letters Patent No. **149,493**, dated April 7, 1874; application filed March 5, 1874.

To all whom it may concern:

Be it known that I, WILLIAM C. MARGEDANT, of Hamilton, in the county of Butler and State of Ohio, have invented a new and useful Improvement in Planing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification.

The invention relates to the pressure-bar or chip-breaker which is used in planing-machines for the purpose of holding down the timber, so that, as nearly as possible, a uniform surface may be presented to the revolving blades of the cutter.

These chip-breakers have been heretofore used to resist the raising power of the rotary cutting-blades with a view only to the material as a whole, but in reality the lifting power of the knives or blades is exerted differently on different parts of the grain of the same piece of timber. Hence the uneven surface or various points of resistance must be separately and independently pressed, in order to prevent the fibers from being splintered and torn. Hence the present one-piece pressure-bar, held by springs or weights, presses only the material along the whole line of cut or width, and rests upon the salient points or elevations, without allowing for the warp or sinuosities of the timber. In order to overcome this difficulty I have invented the means hereinafter described, and pointed out in the claim.

Figures 1 and 2 are elevations in longitudinal section; Fig. 3, a side elevation, partly broken away; Fig. 4, a transverse section of Fig. 3.

A represents the rotary cutter of a planing-machine; B, the roller that takes out to some extent the warp, and C the intermediate chip-breaker. I make the latter in hollow sections *c*, that may be slid on or off a bar, D. Between the bar and the sections is inserted a long rubber strip, E, that yields at different points, according to the backward pressure of each section. This chip-breaker is pivoted to the levers F F, and held by spring-pressure, while the ends *d d* of the bar D move in the arc-grooves *e* of the frame-pieces, thus always clearing the cutter-blades.

By this construction, a pressure adapted to the varied conformation of the transverse surface of the timber is provided, a more uniform cut obtained, and the resistance to the cutter considerably lessened.

Having thus described my invention, what I claim is—

A chip-breaker, C, for planing-machines, composed of hollow sections *c*, bar D, and rubber strip E, put together and adapted to operate in the manner described.

WM. C. MARGEDANT.

Witnesses:

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