

(No Model.)

T. CARTER.
DOVETAILING MACHINE.

No. 347,418.

Patented Aug. 17, 1886.

Fig. 1.

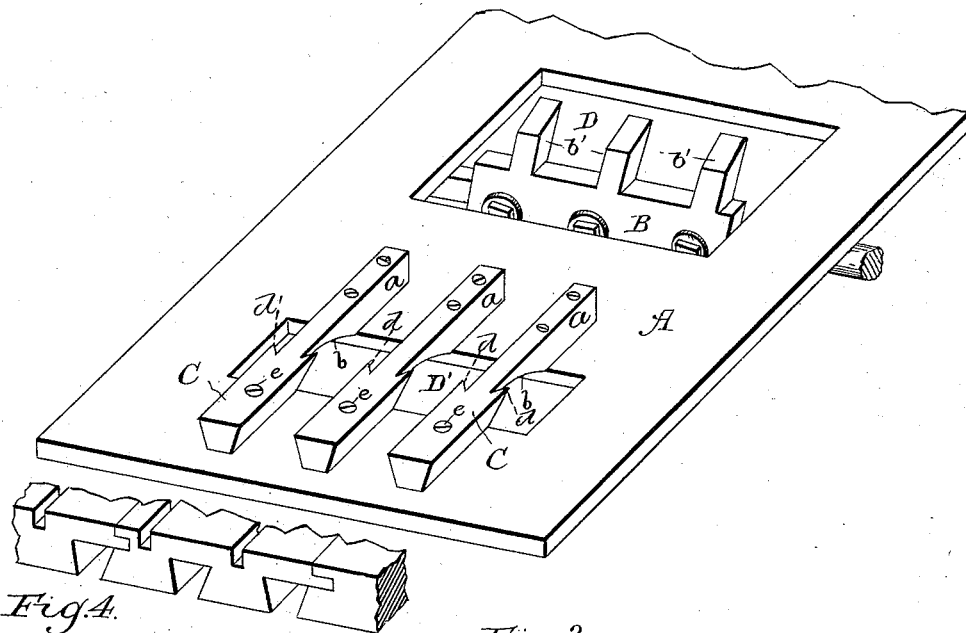


Fig. 4.

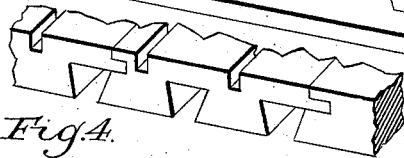


Fig. 2.

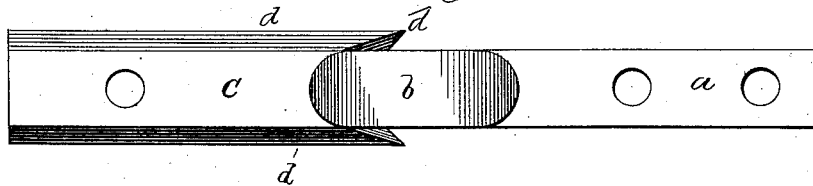
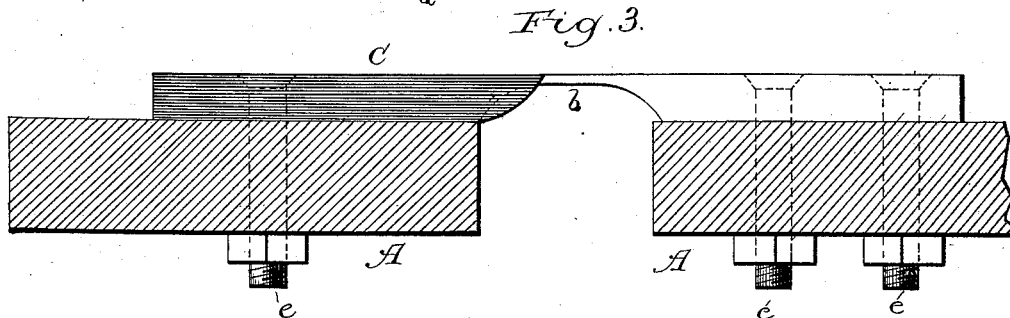


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

TRAVIS CARTER, OF SEYMOUR, INDIANA.

DOVETAILING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 347,418, dated August 17, 1886.

Application filed November 25, 1885. Serial No. 183,993. (No model.)

To all whom it may concern:

Be it known that I, TRAVIS CARTER, a citizen of the United States, residing at Seymour, in the county of Jackson and State of Indiana, have invented a new and useful Improvement in Planing-Machines, of which the following is a specification.

My invention relates to improvements in wood-working planing-machines on which dressed, matched, and grooved lumber is manufactured; and the object of my improvement is to provide adjustable stationary dovetail or other shaped cutters in rear of the revolving groover-head, thereby converting the square grooves made in the lumber by the revolving groover-cutters into dovetail or other shaped grooves. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is the bed-plate of a planer with the upper head, feed-rollers, and guides removed. Fig. 2 shows the under side of the stationary dovetail-cutter. Fig. 3 is a sectional view of the bed-plate of the planer with stationary dovetail-cutters attached; and Fig. 4 is a detail perspective view of the finished lumber, showing the dovetails as formed by my improvements.

Referring by letter to the accompanying drawings, A indicates the bed-plate, which is designed to be attached to a planing-machine in the ordinary manner, having a slot, D, for the passage of the revolving cutter B, the same being of the type usually employed in double-surfacing machines. In rear of this slot D, I provide a transverse slot, D', and above this slot I arrange a suitable number of fixed cutters, being equal in number to the knives b' of the revolving cutter, and on a longitudinal plane coincident therewith, so that

they may enter the grooves of the stock formed by the knives of the revolving cutter in the passage of the same through the machine.

C indicates the rigid or fixed cutters, which are of a peculiar construction, having an integral tongue or guide, a, to enter the grooves of the stock in advance of the cutting-edges, and an under recess, b, below the points of the said edges, as shown, to prevent choking at the beginning of the cut. This recess is of a longitudinal curvilinear form, so that the material removed from the grooves of the stock by the cutting-edges d d may be readily guided away therefrom, thereby obviating any tendency to choke at this point, and allowing a free cut, the points being arranged above the slot D' of the bed-plate. These cutters C are provided with a series of transverse perforations, as shown, for the reception of the fastening screws or bolts e, whereby the said cutters are secured to the base-plates.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a planing-machine, of a rotating groover in the bed-plate and a cutter arranged in rear thereof, and having an under recess upwardly curved beneath and in advance of the cutting-points, and a longitudinal integral guide to enter the groove in advance of the cutters, substantially as specified.

2. In a planing-machine, the combination, with a rotating groover, of a cutter arranged in rear thereof, and provided with an under and upwardly-curved recess below in advance of the cutting-points, substantially as specified.

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Witnesses:

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