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METAL PLANER

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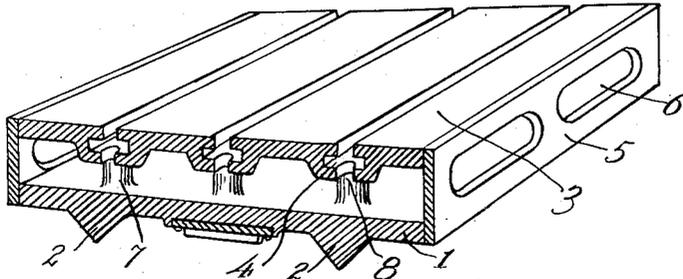


Fig. 1.

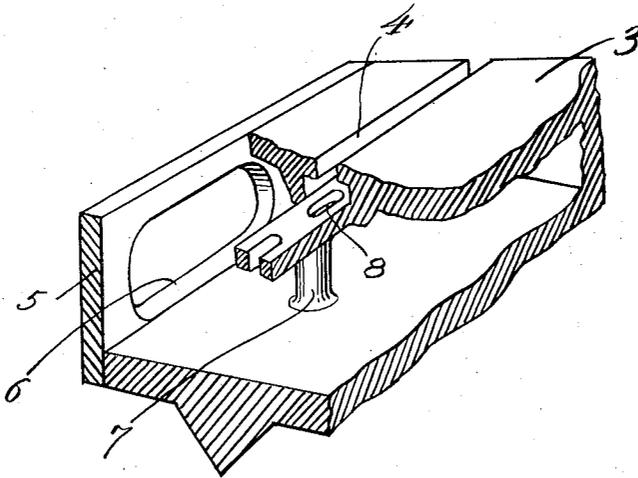


Fig. 2.

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# UNITED STATES PATENT OFFICE

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## METAL PLANER

Original application filed February 16, 1922, Serial No. 537,061. Divided and this application filed April 8, 1925. Serial No. 21,657.

This application is a division of our co-pending application Serial No. 537,061, filed February 16th, 1922, and has as its object the provision of a work supporting and moving table in planers, which provides for disposal of the metal chips resulting from the action of tools on the work, without getting into the V's and other operating parts for the table.

10 We accomplish our object by providing a table in which a hollow construction is provided, and openings are left from the T slots in which the work retaining elements find a seat, into the interior of the table. The table  
15 is formed with lateral openings through which chips may be scraped or swept, thus taking them out at the sides of the table.

We accomplish our object by that certain construction and arrangement of parts to be  
20 hereafter more specifically pointed out and claimed.

In the drawing:

Figure 1 is a perspective section taken through the work table of a planer.

25 Figure 2 is a larger scale perspective section illustrating our construction in its preferred form.

We have not illustrated the usual bed and other parts of a planer, as our table is to be  
30 employed in the usual way of planer tables, and tables having similar movement in other types of metal working machines.

The table shown is in the form of a box having a base 1, on which are the usual V's  
35 2, 2. The top 3 of the table has the usual T slots 4 for the clamps that hold the work down on the table. In the usual planer table having such a top, the practice of wiping the chips that collect in the T slots out through  
40 the ends of the slots, results in the chips falling onto the V-grooves in which the V's of the table are guided and held, and also falling through into the operating parts that move the table.

45 Also the chips falling on the table work out through the ends of the grooves, and fall down onto the planer bed.

At the present, the operation of cleaning the table by sweeping off the chips to the side  
50 thereof, results in filling up the grooves, and

by our invention the emptying of the grooves is readily and easily accomplished.

The sides 5 of the box-like table are provided with openings 6, the bottom edges of which are preferably flush with the inside of  
55 the base of the table. The top of the table and the bottom thereof are connected by webs 7, formed in casting the bottom and top elements of the table, and in the bases of the T slots we form series of holes 8 of any desired  
60 conformation and extent, through which metal chips will fall, passing to the inside of the box-like table.

The location of the connecting webs, and of the holes in the bases of the T slots can  
65 naturally be varied widely without departing from the spirit of our invention.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:—  
70

1. In a metal working machine a table for carrying work past the tools, said table being formed with a hollow interior, grooves in the table extending the full length of said table  
75 for engagement with work clamping devices, and spaced openings extending throughout the length of the grooves communicating with the interior of the table, and means for access into the interior of the table for removal  
80 of metal particles falling through said openings, and webs reinforcing the grooved portions of said table.

2. In a metal working machine a table for carrying work past the tools, said table being formed with a hollow interior, side openings  
85 in the table lying at their lower edges flush with the interior of the base thereof, grooves in the table extending throughout the length of said table for the location of work clamping devices, webs extending across said hollow interior from said base to said groove  
90 portions and spaced apertures extending through the length of said grooves communicating with the interior of the table through which accumulated metal particles can be  
95 swept, said particles then being removable through the openings in the table sides.

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