L. SPRINK.
CUTTER HEAD FOR PLANING MACHINES.
(Application filed May 2, 1901.)
(No Model.)

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
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CUTTER-HEAD FOR PLANING-MACHINES.


Application filed May 2, 1901. Serial No. 88,560. (No model.)

To all whom it may concern:

Be it known that I, LAMBERT SPRINK, a citizen of the United States, residing at Milwauk
5 e, in the county of Milwaukee and State of Wisconsin, have invented a new and useful
Cutter-Head for Planing-Machines, of which the following is a specification.

My invention is an improved cutter-head for planing-machines; and it consists in
10 the peculiar construction and combination of devices hereinafter fully set forth and claimed.

The object of my invention is to provide a cutter-head with removable chip-breakers and to effect improvements in the construc-
15 tion of the stock and the chip-breakers whereby the latter may be firmly secured in operative position and with relation to the cutting-knives.

In the accompanying drawings, Figure 1 is a perspective view of a cutter-head constructed in accordance with my invention, a portion of one of the cutting knives or plates being removed to show the chip-breaker under the same. Fig. 2 is a side elevation of my improved cutter-head. Fig. 3 is a transverse sectional view of the same.

The stock 1 of the cutter-head is of the usual form and is provided with seats 2 for the removable chip-breaker plates 3. Longitudi-
20 nally of the stock, on the faces thereof and communicating with the seats 2, are dovetailed grooves 4. At a suitable distance in rear of each groove 4 is a groove 5, which is parallel therewith and has an overhanging flange 6 on one side. Each of the chip-breaker plates is provided on its under side with a dovetailed tongue 7. The same are adapted to fit in the dovetailed grooves 4 to attach the chip-breaker plates to the stock 1, and the rear sides of the said chip-breaker plates project over the grooves 5 and form flanges 7, which are opposite the flanges 6 of said grooves. Bolts 8 have their heads 9 disposed in the grooves 5 and secured therein by the overhanging flanges 67, the shanks of the said bolts projecting outwardly from the stock in rear of the chip-breaker plates. The latter are secured in place on the stock by screws 10, the heads of which are countersunk in said chip-breaker plates. The cutter plates or knives 11 bear on the integral face portions 12 of the stock and on the outer side of

the chip-breaker plates, thereby covering the latter, and said cutter plates or knives have adjusting-slots 13, which extend to their rear edges. The shanks of the bolts 8 extend through the said adjusting-slots, and the said bolts are provided with the taps 14, which bear on the outer sides of the said cutter plates or knives, washers 15 being preferably disposed between the said cutter plates or knives and said taps. By this construction of the stock and the chip-breaker plates the latter are readily removable from the stock, so that they may be sharpened when dull or replaced when worn to such an extent as to be no longer useful.

Having thus described my invention, I claim—

1. In a cutter-head of the class described, the combination of a stock having longitudinal flanged grooves in its faces and grooved seats for the chip-breaker plates, chip-breaker plates having tongues to engage said grooves, means to secure said chip-breaker plates to said stock, cutter plates or knives bearing on the integral portions of the faces of said stock and on said chip-breaker plates, and headed bolts in the grooves of the faces of said stock and extending through adjusting-slots with which said cutter-plates are provided, said bolts securing said cutter-plates in position, substantially as described.

2. In a cutter-head of the class described, the combination of a stock having longitudinal grooves in its faces and formed with an integral overhanging flange on one side of each groove, detachable chip-breaker plates adapted to be secured on said stock, the rear edges of said chip-breaker plates overhanging said grooves and forming flanges on opposite said flanges, cutter-plates having adjusting-slots and headed bolts having their heads secured in said grooves by said flanges, the shanks of said bolts extending through said adjusting-slots in said cutter-plates, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in the presence of two witnesses.

LAMBERT SPRINK.

Witnesses:

H. LAMBECK, Jr.,
W. F. LAMBECK.