

H. BERTRAM.
METAL PLANER.

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912,063.

Patented Feb. 9, 1909.

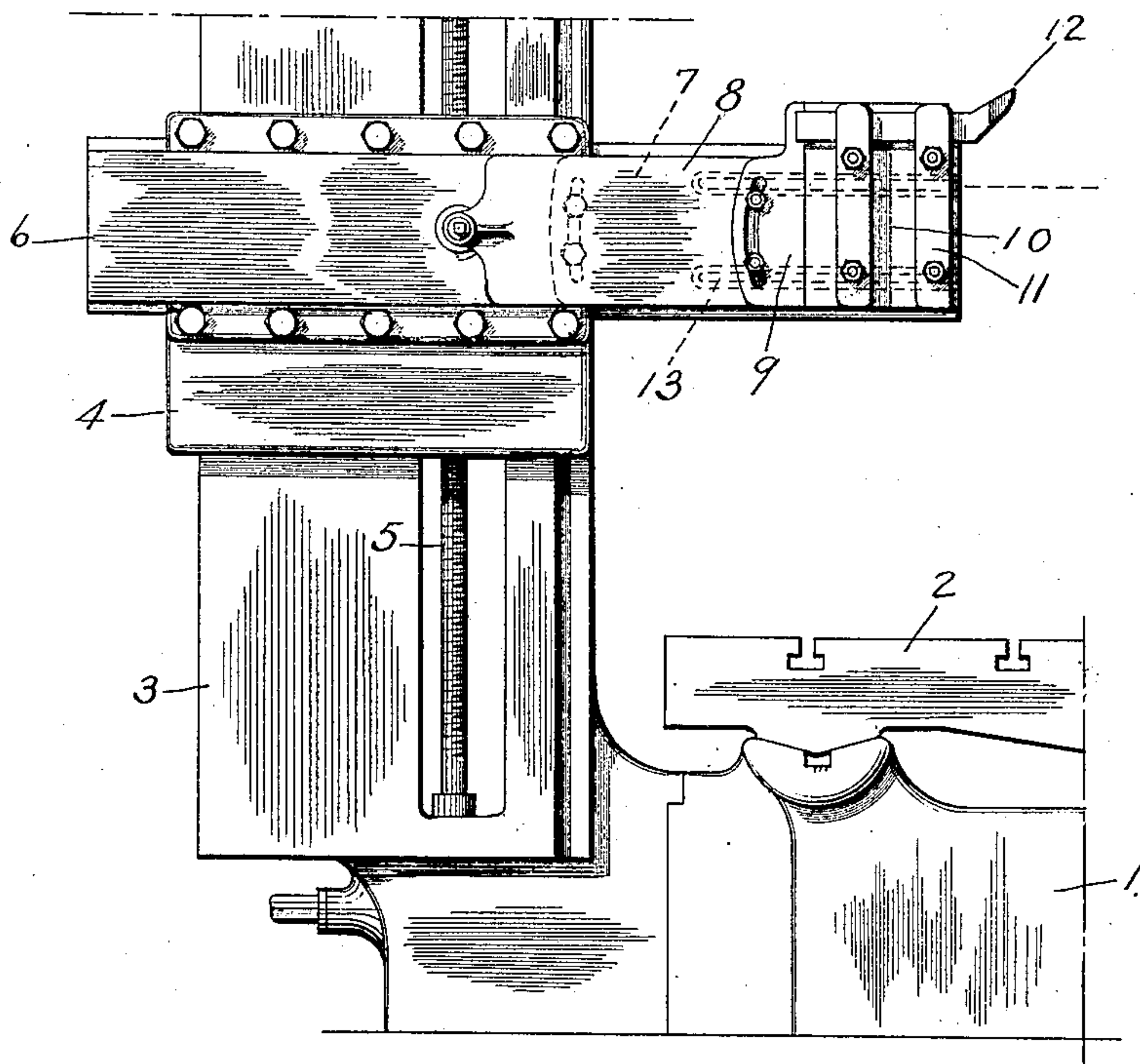
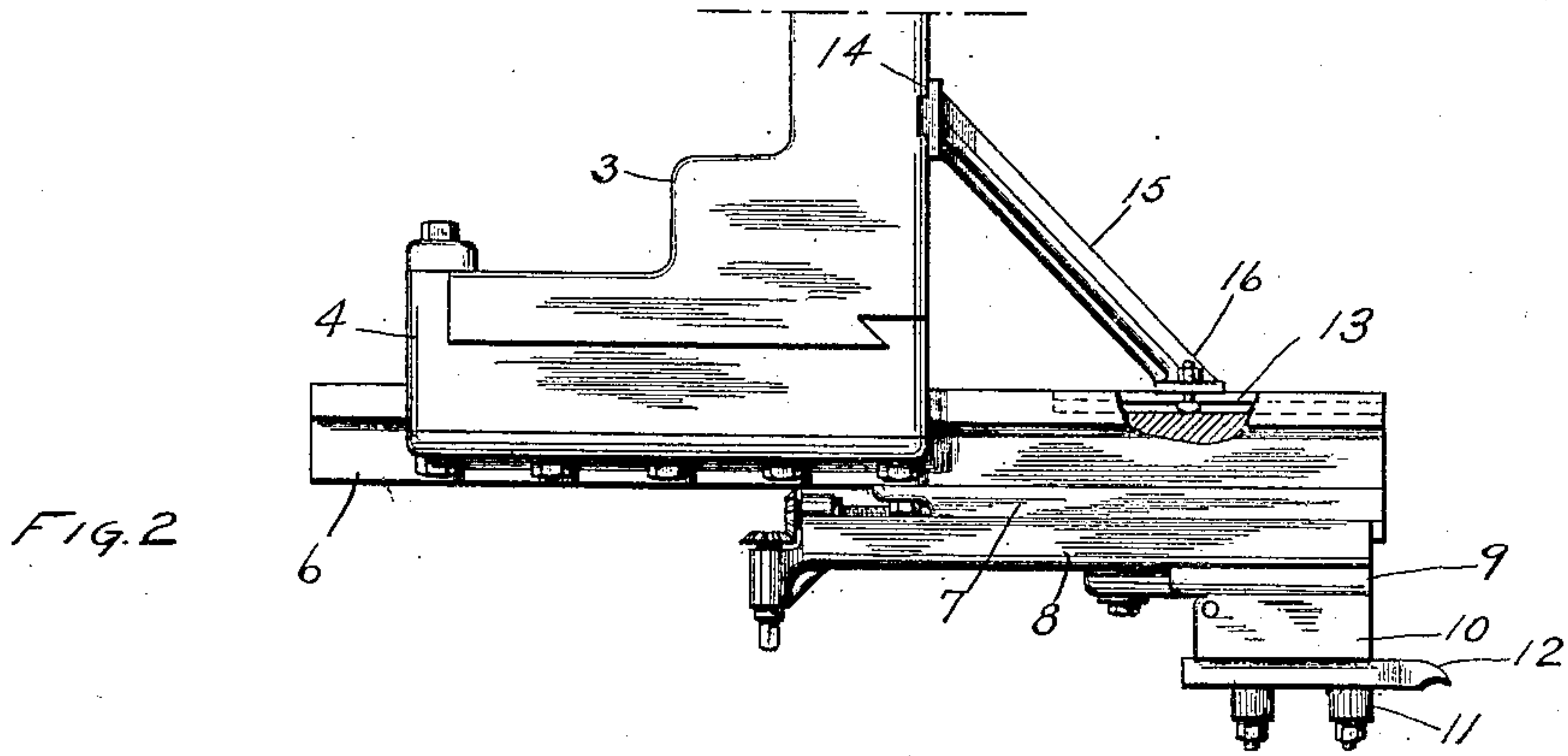


FIG. 1.

Henry Bertram

Witnesses:

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METAL-PLANER.

No. 912,063.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY BERTRAM, a subject of Great Britain, residing in Dundas, Ontario, Canada, have invented certain new and useful Improvements in Metal-Planers, of which the following is a specification.

My invention pertains to metal planers and relates to improvements in the mounting of the side-heads to facilitate the side-heads being rigidly supported when projecting their tools far inwardly from the housings on which they are mounted.

The improvements will be readily understood from the following description taken in connection with the accompanying drawing in which:—

Figure 1 is a front elevation of a side-head construction embodying my improvement, and Fig. 2 is a plan of the same.

In the drawing:—1, indicates the bed of an ordinary metal planing machine: 2, the planer table: 3, one of the housings: 4, the side-head saddle sliding vertically on the housing as usual: 5, vertical adjusting screw for the side-head: 6, the restbar clamped in the saddle and adjustable horizontally therein so as to project its inner end a selected distance inward from the inner face of the housing: 7, the usual swing mounted on the inner front portion of the rest-bar: 8, the usual slide mounted for inward and outward movement on the swing: 9, the tool-box mounted as usual on the front of the slide: 10, the apron or clapper-box pivoted as usual on the tool-box: 11, the tool clamps on the apron: 12, the tool: 13, longitudinal slots in the rear face of the rest-bar: 14, a vertically extending forwardly presenting shoulder or surface on the inner face of the housing: 15, a diagonal brace having its rear end engaging against the shoulder 14 and having its forward end engaging against the rear face of the rest-bar at the slots 13: and 16, bolts engaging the slots and the forward end of the brace and clamping the brace firmly to the rest-bar.

When the restbar has been adjusted in the saddle to have the desired inward projection and has been clamped in the saddle, and when bolts 16 have been tightened then the inner portion of the restbar becomes well

braced against the action of the tool and the entire side-head may be moved vertically on the housing in the usual manner, the rear end of the brace at this time sliding vertically along the housing shoulder against which it abuts. If it be desired to readjust the rest-bar so as to change its degree of inward projection then bolts 16 can be loosened, to permit of the adjustment, the bolts being again tightened after the adjustment has been made. If the work to be done is so light as not to render the brace necessary, or if the inward projection of the rest-bar be so small that the brace is not called for or so small that the forward end of the brace would come beyond the inner end of the rest-bar, then the brace may be dispensed with and removed.

I claim:—

1. A metal planer comprising, a housing provided on its inner face with a vertically extending forwardly presenting shoulder, a saddle mounted to slide vertically on the housing, a rest-bar mounted for adjustment in and out in the saddle, tool-carrying and feeding devices mounted on the front inner portion of the tool-rest, and a diagonal brace having its forward end secured to the rear inner portion of the rest-bar and having its rear end engaging the forwardly presenting shoulder of the housing, combined substantially as set forth.

2. A metal planer comprising, a housing provided on its inner face with a vertically extending forwardly presenting shoulder, a saddle mounted to slide vertically on the housing, a rest-bar mounted for adjustment in and out in the saddle and longitudinally slotted on its inner rear portion, tool-carrying and feeding devices mounted on the front inner portion of the rest-bar, and a diagonal brace having its forward end adjustably secured to the slotted rear inner portion of the rest-bar and having its rear end engaging the forwardly presenting shoulder of the housing, combined substantially as set forth.

HENRY BERTRAM.

Witnesses:

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