

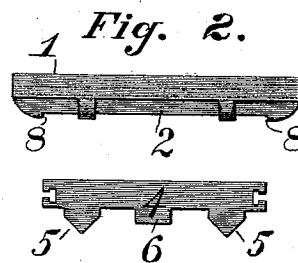
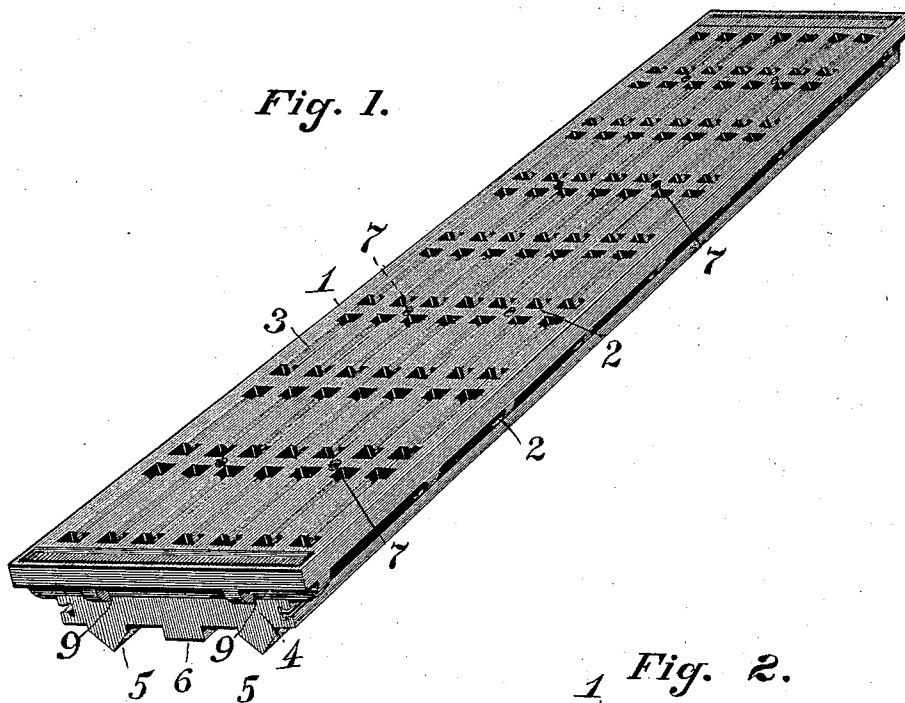
(No Model.)

2 Sheets—Sheet 1.

J. McKENNA.
BED FOR METAL WORKING MACHINES.

No. 472,712.

Patented Apr. 12, 1892.



WITNESSES:

Danvers & Wolcott
F. E. Gaither.

INVENTOR

John McKenna,
BY *George H. Christy*

ATTORNEY

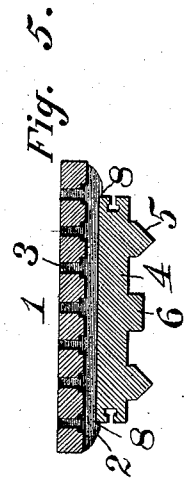
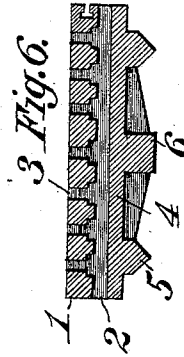
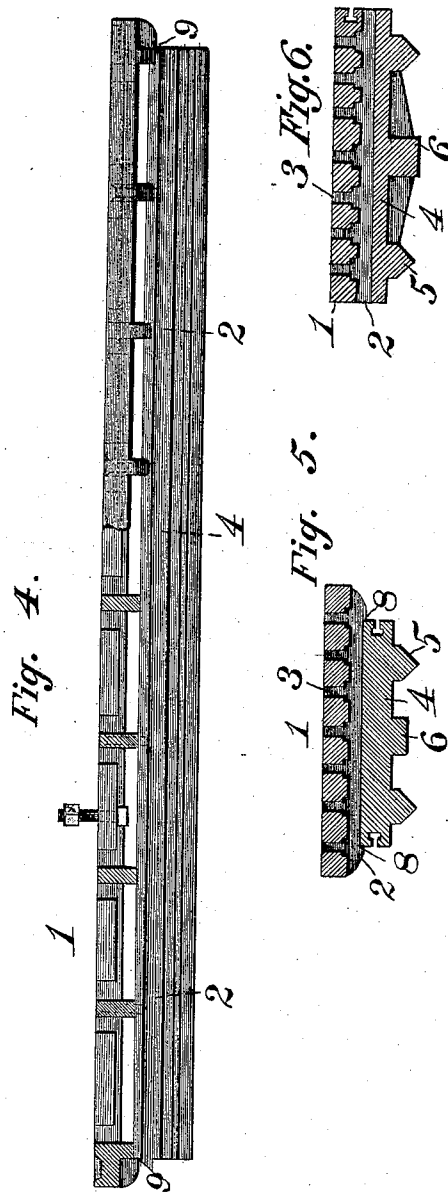
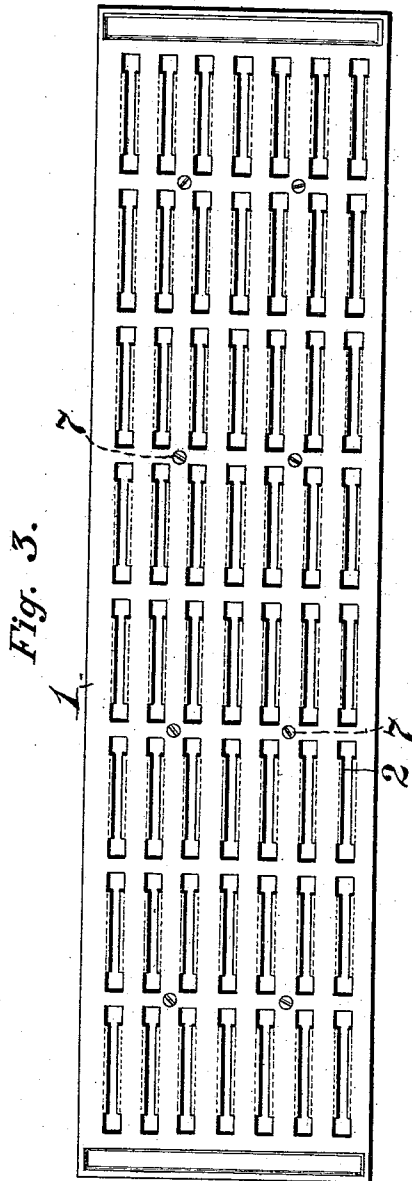
(No Model.)

2 Sheets—Sheet 2.

J. McKENNA.
BED FOR METAL WORKING MACHINES.

No. 472,712.

Patented Apr. 12, 1892.



WITNESSES:

Darius B. Wolcott
F. E. Gaither.

INVENTOR

BY John McKenna,
by George W. Christy,
ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN MCKENNA, OF JOHNSTOWN, PENNSYLVANIA.

BED FOR METAL-WORKING MACHINES.

SPECIFICATION forming part of Letters Patent No. 472,712, dated April 12, 1892.

Application filed July 14, 1891. Serial No. 399,442. (No model.)

To all whom it may concern:

Be it known that I, JOHN MCKENNA, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Beds for Metal-Working Machines, of which improvements the following is a specification.

The invention described herein relates to certain improvements in beds for metal-working tools, such as planers, milling-machines, &c., and has for its object a construction of bed whereby the openings in the beds for the reception of the clamping-bolts may be kept free from chips or turnings and the latter prevented from falling upon the bed-driving mechanism.

Beds for metal-working tools have heretofore been constructed either with the bolt-slots extending down through the bed, thereby permitting the chips, turnings, &c., to drop down on the driving mechanism and ways of the machine, or with undercut grooves, thus forming pockets from which the chips, &c., must be picked out before the bolt-head can be slid into place.

The present invention consists in forming the slots entirely through the main bed and in providing a supplemental bed or plate underneath and a short distance below the main bed for the reception of the chips, &c., which can be readily removed through the transverse passages thus formed beneath the main bed, all as more fully hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a planer-bed embodying my invention. Fig. 2 shows end elevations of the two sections of the bed. Fig. 3 is a top plan view of the same. Fig. 4 is a view, partly in elevation and partly in section, of the bed. Fig. 5 is a transverse section, and Fig. 6 is a similar view showing the parts of the bed formed integral with each other.

In the practice of my invention the main or work-supporting bed is constructed in the usual manner—that is, with a series of transverse bracing or strengthening ribs 2 on its under side and a series of bolt-slots 3, which

extend entirely through the bed and are made of any desired shape or form. To the under side of the bed 1 I secure a supplemental bed 4, which is made solid or imperforate, so as to retain thereon any chips, &c., that may fall through the slots 3. It will be seen that the transverse ribs 2, forming the bearings or supports of the bed 1 on the supplemental bed 4, project a short distance below the under surface of the bed 1, and thereby form a series of transverse open-ended pockets under the bolt-slots for the reception of the cuttings, chips, &c., which may drop through the bolt-slots.

The V-shaped guides 5 and the rack 6, with which the driving-gearing engages, are formed on the under side of the supplemental bed 4, as shown.

It will be understood that the invention is not limited to any particular form or construction of mechanism for reciprocating the combined beds, nor to reciprocating beds.

As shown in Figs. 1, 2, 3, 4, and 5, the main and supplemental beds are formed independent of each other, and are secured together by bolts 7, passing through the ribs 2. When forming the beds independent of each other, it is preferred to slightly cut away the edges of the ribs 2, so as to form shoulders 8 thereon, which will pass outside of the edges of the supplemental bed, so as to prevent lateral displacement of the main bed. Similar shoulders 9 are formed at the ends of the main bed, so as to lock both beds as against independent longitudinal movement.

In lieu of forming the beds independent of each other, as stated, and then bolting them together, they may be cast integral with each other, as shown in Fig. 6, the rib 2 forming the connecting member.

It will be readily understood by the skilled mechanic that my invention can be readily applied to the beds of metal-working machines now in use having the bolt-slots passing entirely through said beds by attaching a supplemental bed thereto in the manner described.

While the invention is shown as applied to a planer-bed, it is equally applicable to the beds of metal-working machines generally,

as the shape of the bed is immaterial; and, while it is preferred that the pockets should extend in the direction of the shortest dimension of the bed, so as to facilitate the removal
5 of the chips, &c., therefrom, they may be arranged in any desired manner.

I claim herein as my invention—

1. A bed for metal-working machines, provided with a series of bolt-slots and with open-
10 ended pockets extending under said slots and connected therewith, substantially as set forth.

2. A bed for metal-working machines, having in combination a main bed provided with
15 bolt-slots and an imperforate bed arranged below and a short distance from the main bed, thereby forming a series of open-ended pockets for the reception of chips or other foreign

matter passing through the slots in the main bed, substantially as set forth. 20

3. A bed for metal-working machines, having in combination an upper or main bed provided with bolt-slots and an imperforate bed arranged below and a short distance from the
main bed, thereby forming a series of open- 25 ended pockets for the reception of chips or other foreign matter passing through said slots, said beds being formed integral with each other, substantially as set forth.

In testimony whereof I have hereunto set
my hand. 30

JOHN McKENNA.

Witnesses:

ROBERT S. MURPHY,
J. N. BENFORD.