

Mason & Davis
Railroad Track Iron.

N^o 19,861.

Patented Apr. 6, 1858.

Fig. 3.

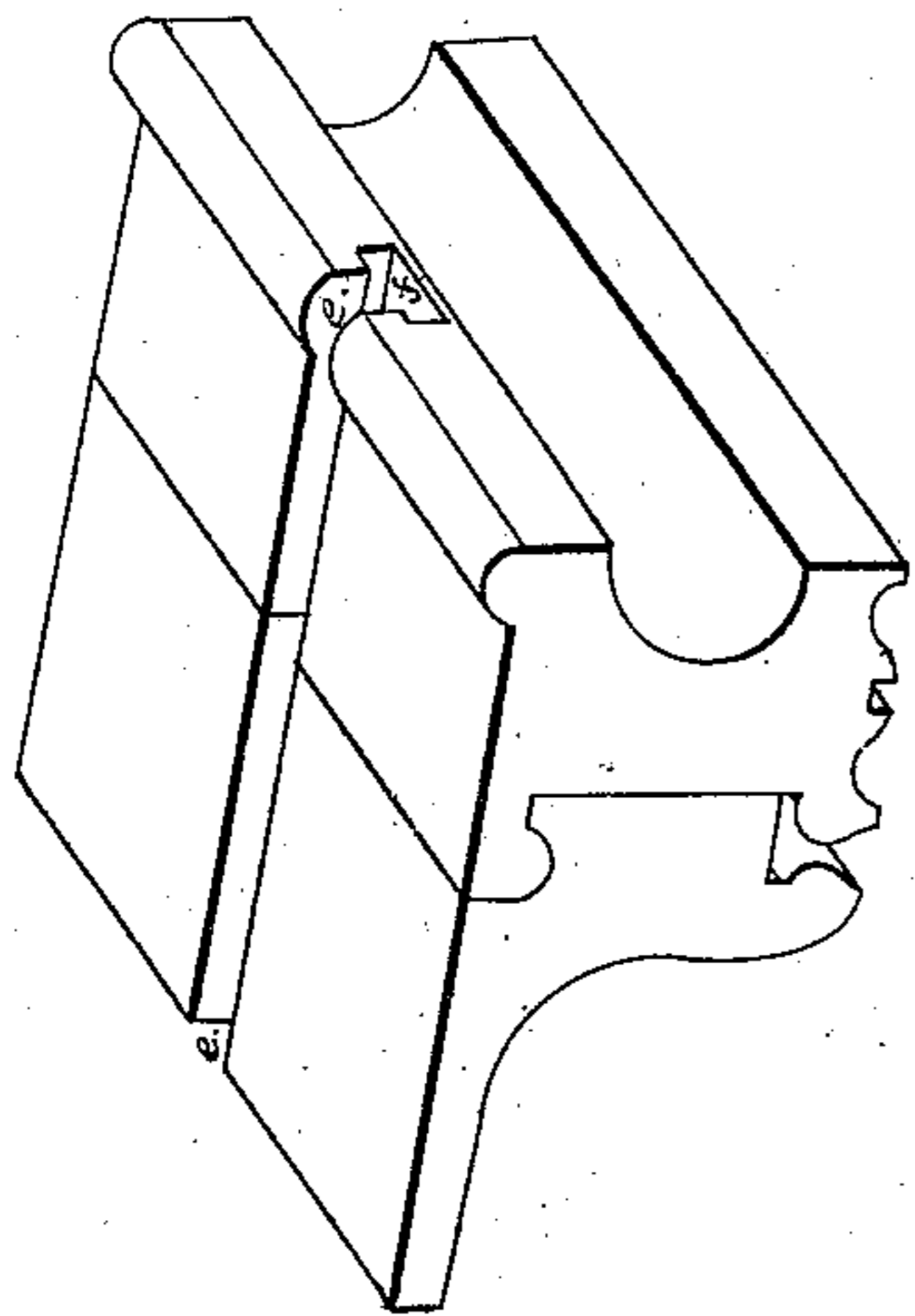


Fig. 5.

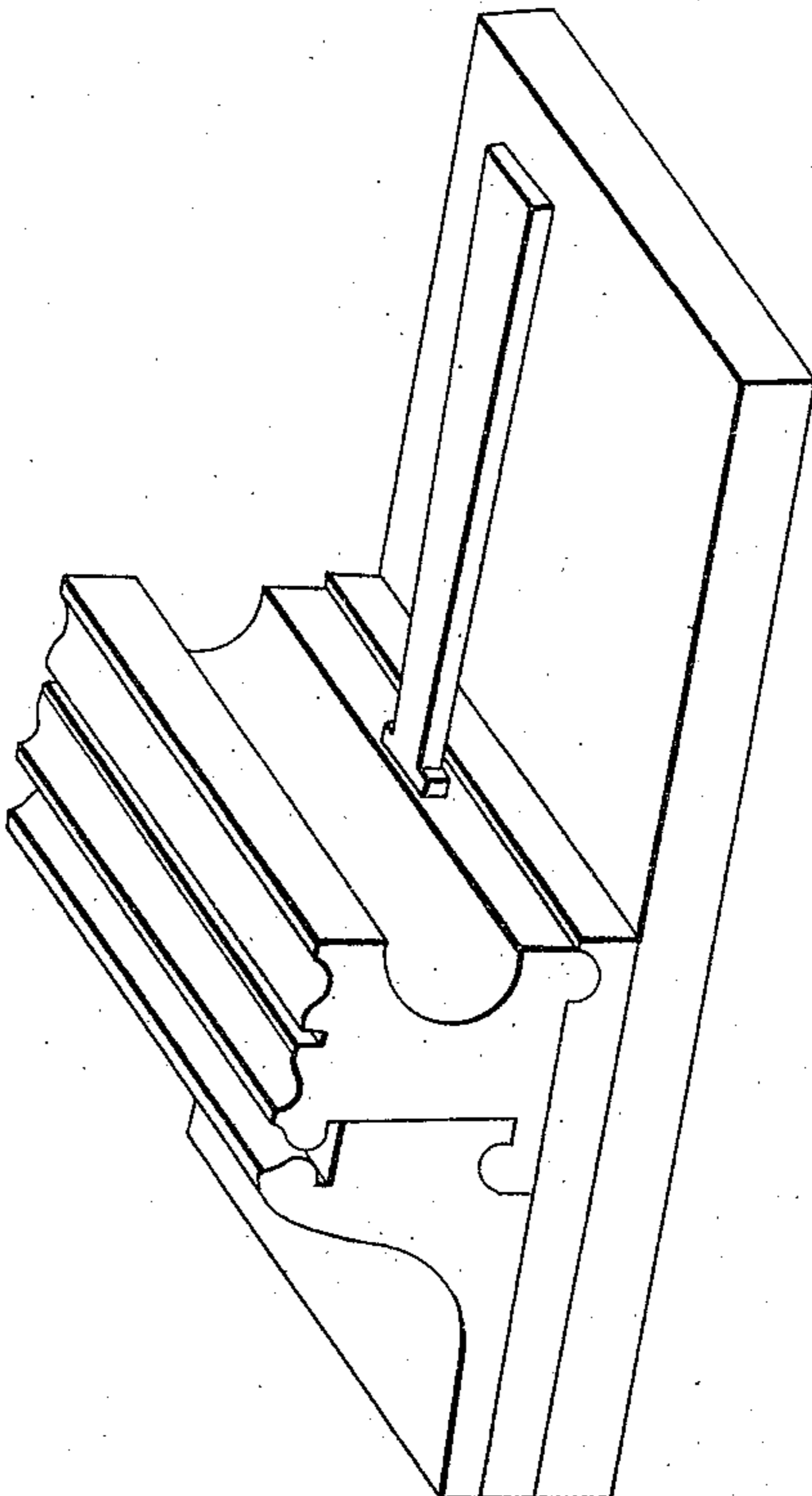


Fig. 4.

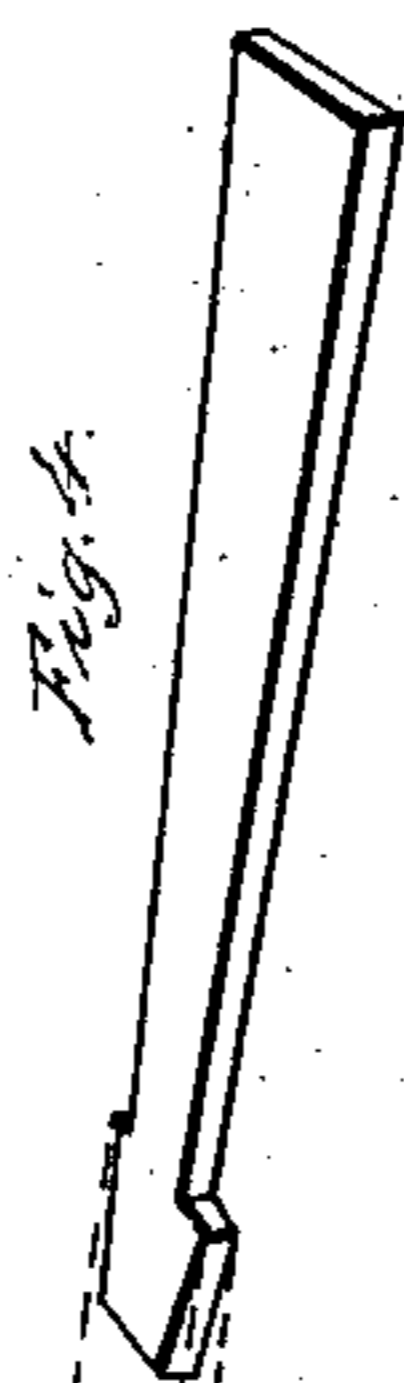


Fig. 2.

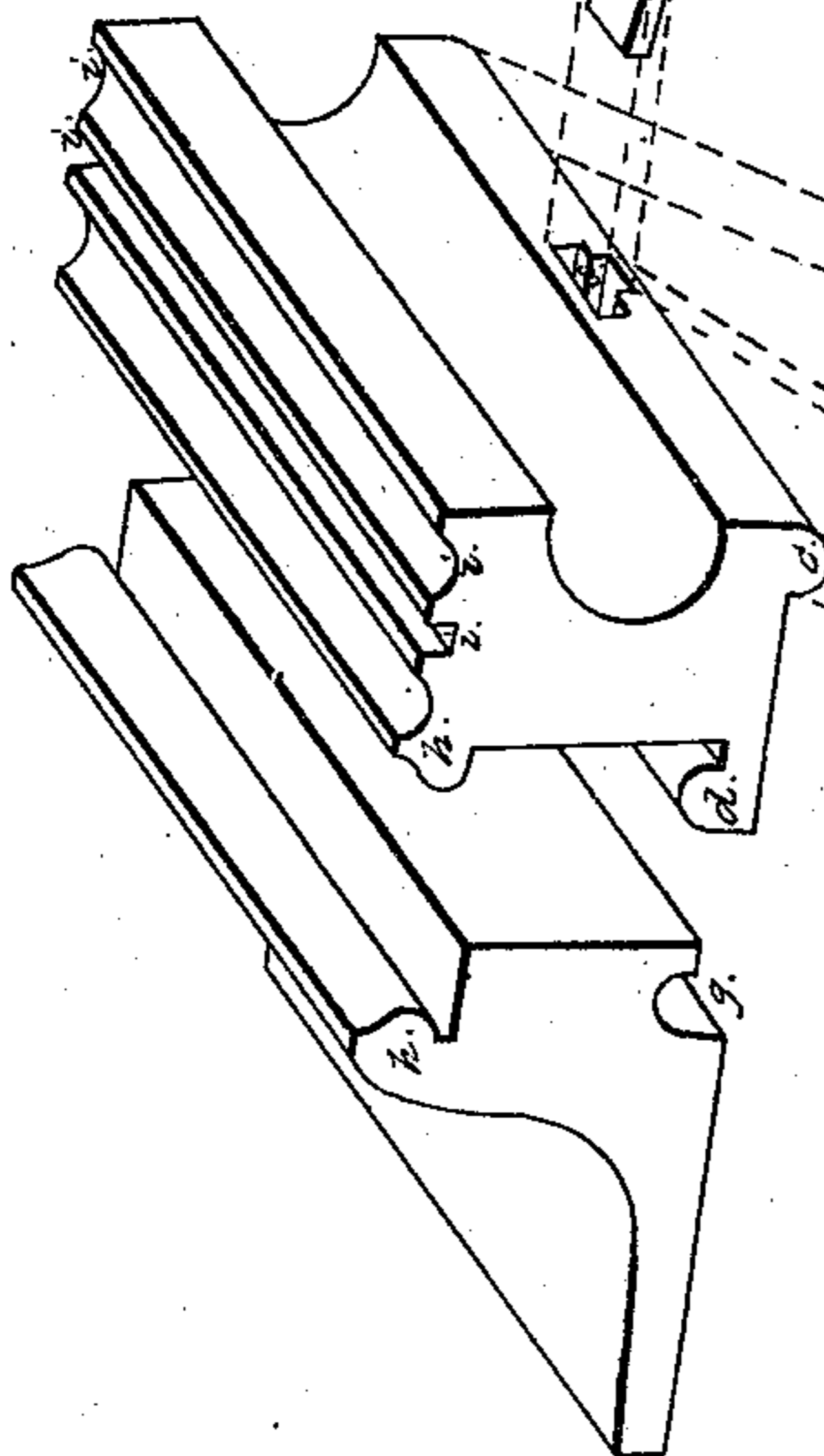
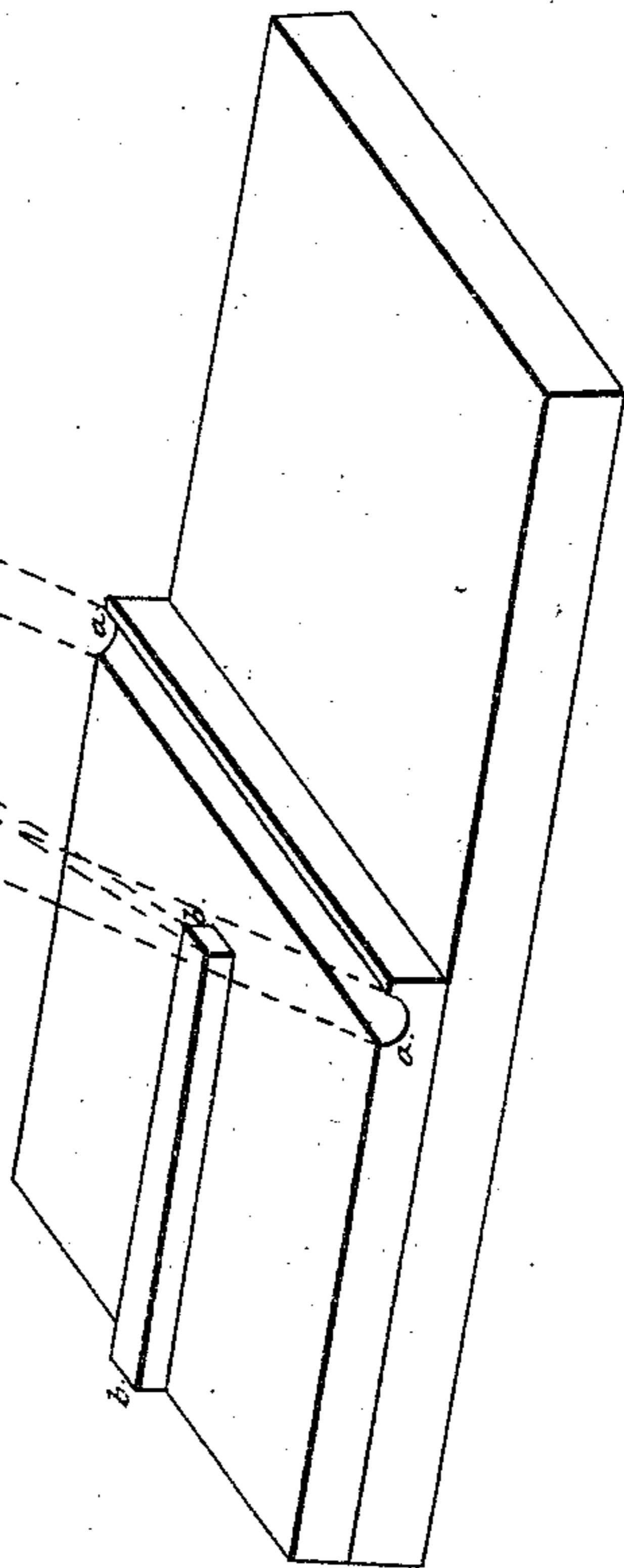


Fig. 1.



UNITED STATES PATENT OFFICE.

S. MASON AND E. M. DAVIS, OF MICHIGAN CITY, INDIANA.

WISE-ANVIL FOR REPAIRING T-RAILS.

Specification of Letters Patent No. 19,861, dated April 6, 1858.

To all whom it may concern:

Be it known that we, SANFORD MASON and EDWARD M. DAVIS, of Michigan City, in La-
5 porte county and State of Indiana, have in-
vented a new and valuable Mode of Con-
structing a Vise-Anvil or T-Rail Block; and
we declare the following to be a full and
exact description of our method of construct-
ing the same.

10 The parts consist of first, a bed piece; 2d,
what we term the "locking jaw;" 3d, the
lever jaw, and 4, a lever.

We first refer to the accompanying draw-
ings as part of this specification.

15 Figure 1 represents the bed-piece which is
constructed of cast iron and may be of any
material suitable for such purpose. It con-
sists alone of a single piece of cast iron of
suitable thickness and proportion, at one
20 end of which is cast or otherwise constructed
a half circle box or groove, letters *a a*. At
right angles with this groove we construct a
guide bar or guard, letters *b b*.

Fig. 2 represents the jaws of anvil or block
25 in upright position and are each cast entire.
The one to which the lever may be attached
we call the lever jaw and the other the lock-
ing jaw. On the lower and outer edge of the
lever-jaw we construct a half-round guard,
30 letter *c*, extending the whole length of the
jaw, exactly to fit and revolve in box or
groove of bed-piece, letters *a a*, and a similar
guard on the lower and inner side of the le-
ver jaw exactly to fit and revolve in groove
35 of locking jaw as represented at letter *g*—
see last named guard at letter *d*. At right
angles with these guards and in the center
of the under side of both jaws, we construct
a groove seen in Fig. 3, letters *e e*, exactly to
40 receive and fit on guard of bed-piece, letters
b b. This groove terminates at outer side of
lever-jaw in a mortise, letter F, Fig. 3, into
which the lever is put when in use. In lock-
ing jaw Fig. 2, we construct a half-round
45 groove or box, letter *g*, exactly to fit and re-
ceive guard on lever jaw, letter *d*—thus lock-
ing the jaws together, while the grooves and
guards on bed-piece and under side of the
jaws support and retain the parts in their
50 several places.

Fig. 4, represents the lever which may be
of any material, form and size found con-
venient and necessary in operating jaws.
On the upper side of the jaws as seen in Fig.
2, we construct the lips of the vise-anvil, let- 55
ters *h h*, of such form and shape as to ex-
actly receive and fit a T-rail bar in the posi-
tion in which it is placed when in use. The
grooves on the lever jaw are designed to fit
the different positions of the T-rail, letters 60
i i. Now lay down the bed-piece, guard and
groove of the same, up-set the lever jaw
thereon inserting the guard of the bedpiece
in groove of the jaw and inserting the half-
round guard in box or half round groove, 65
letters *a a*,—put the lever in mortise F.
Now place the locking jaw on bed-piece—
groove over the guard—then bear down on
the lever and lock the jaws by inserting the
groove *g*, over the guard *d*—remove the hand 70
from lever; the vise anvil or T-rail block is
complete, Fig. 5.

The anvil is used by bearing down on the
lever, thus throwing the jaws apart so as to
admit the rail. The force removed from the 75
lever the weight of the bar forces the jaws
back in their place and the grooves guard
and lock on the jaws and bed-piece holds the
whole firmly in place.

Having thus fully described the nature 80
and object of our invention what we claim
therein as new and desire to secure by Let-
ters Patent is—

1. The combination of the guard *c*, on the
lever jaw, and the groove *a*, in the bed piece, 85
with a raising mechanism for raising up said
lever jaw substantially as herein described.

2. We also claim in combination the pro-
jection *d*, on the lever jaw and the groove *g*,
on the locking jaw, so that when the jaws 90
are raised up they will open to receive the
rail, and when released will catch and firmly
hold themselves and the rail to the bedpiece
substantially as described.

SANFORD MASON.
EDWARD M. DAVIS.

Signed in presence of—

JAMES ORR,
I. A. THORNTON.