

T. VEZIE & W. L. EVANS.
ANVIL.
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1,037,088.

Patented Aug. 27, 1912.

Fig. 1.

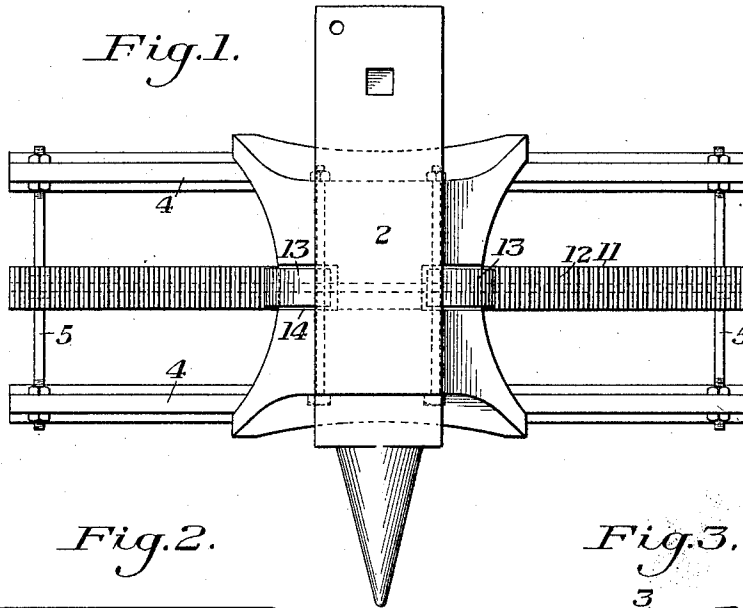


Fig. 2.

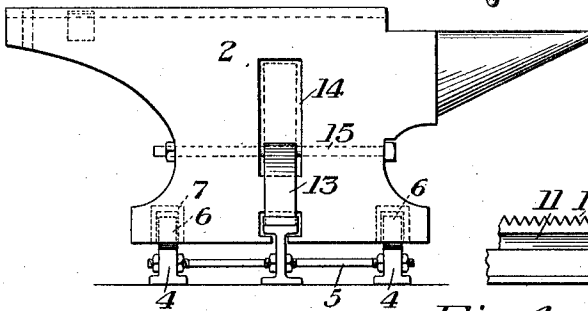


Fig. 3.

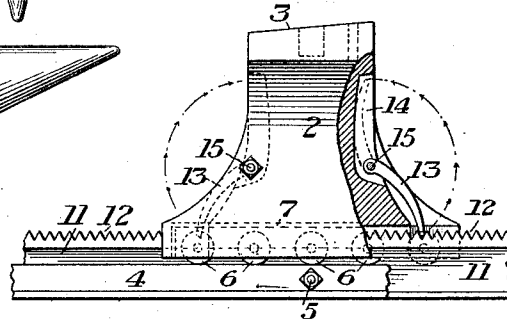
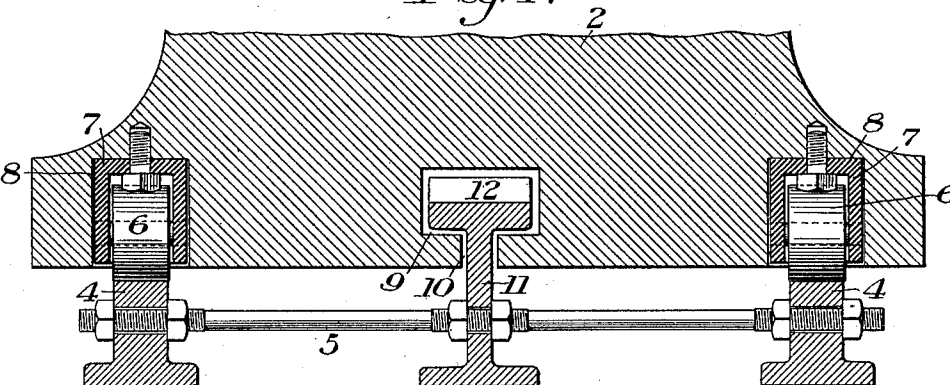


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS VEZIE AND WILSON L. EVANS, OF McDONALD, PENNSYLVANIA.

ANVIL.

Specification of Letters Patent.

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1,037,088.

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To all whom it may concern:

Be it known that we, THOMAS VEZIE and WILSON L. EVANS, of McDonald, in the county of Washington and State of Pennsylvania, have invented a new and useful Improvement in Anvils, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view of an anvil embodying our invention. Fig. 2 is a side view of the same. Fig. 3 is an end view partly broken away, and Fig. 4 is a transverse section of a portion of the anvil and its mounting.

Our invention has relation to certain new and useful improvements in anvils; and more particularly to tool-dressers' anvils.

In dressing tools, such as well drills or bits, it is customary to place one end of the drill or bit against a "bumping post" and to rest the end to be dressed upon the anvil, the tool lying in an inclined position. These tools vary greatly in length and also become shorter under successive dressings.

It is the object of our invention to provide an anvil which is so mounted that it can be readily moved to the desired position to suit the particular tool to be dressed and can be fixedly held in the position to which it is adjusted.

The nature of our invention will be best understood by reference to the accompanying drawings, in which we have shown the preferred embodiment thereof, and which will now be described, it being premised, however, that various changes can be made in the details of construction and arrangement of the several parts without departing from the spirit and scope of our invention as defined in the appended claims.

In these drawings, the numeral 2 designates the anvil body, which is, in general, of the usual form, except that its upper working surface is at an inclination or angle to the horizontal, as shown at 3 in Fig. 3. This anvil body is mounted for movement on the track rails 4 which are connected by suitable ties 5. The anvil body is provided with a plurality of rollers 6 which are journaled in housings 7 secured in seats 8 in the lower portion of the body, and which travel on the tracks 4. The lower central portion of the anvil is provided with a transversely extending opening 9, with a relatively nar-

row slot 10 leading outwardly through the bottom wall thereof, this opening and slot embracing the upper portion of a flanged guide 11 having its upper surface provided with a plurality of teeth 12.

13 designate pawls which are pivoted within the recesses 14 on opposite sides of the anvil body on the pins or bolts 15. These pawls can be swung downwardly to engage the teeth 12, as shown in Fig. 3; or they may be swung upwardly out of engagement with said teeth to lie within the recesses 14.

The bolts 15 are preferably made readily removable so that they can be withdrawn, and the pawls 13 removed in moving the anvil from place to place. These anvils are especially designed for use at oil wells for sharpening the well tools, and it is often necessary to move them from one well to another. If the pawls are left in place, they are likely to be injured during the moving operation.

The guide 11 may be held in rigid relation to the rails 4 by means of the ties 5 before referred to, and as clearly shown in Figs. 2 and 4.

The operation will be readily understood. By moving one of the pawls 13 out of engagement with the rack teeth, the anvil can be moved to any desired position and secured in such position by reengagement of the pawl. The guide 11 not only acts as a guide, but it also carries the teeth for the locking pawls and prevents any lateral or endwise movement of the anvil body relatively to the tracks.

The tracks and guide can be mounted upon a suitable solid foundation so as to get a solid bed for the anvil.

The anvil herein described effects a saving of a very considerable amount of time and labor in black-smithing and tool-dressing work of various kinds.

We claim:

1. An anvil device comprising parallel track rails, a guide rail intermediate the track rails and fixed with respect thereto, and an anvil body mounted for longitudinal movement on the said track rails, said body having a guide slot embracing a portion of the intermediate guide rail, said slot and guide rail holding the anvil body against lateral movement; substantially as described.

2. An anvil device comprising parallel track rails, a guide rail intermediate the

track rails and fixed with respect thereto, and an anvil body mounted for longitudinal movement on the said track rails, said body having a guide slot embracing a portion of the intermediate guide rail, said slot and guide rail holding the anvil body against lateral movement, together with locking means carried by the anvil body and adapted to engage the guide rails to positively hold said body against longitudinal movement in either direction when in use; substantially as described.

3. The combination with parallel track rails and an intermediate guide rail having a flanged head, of an anvil body mounted on the track rails and having a T-shaped slot embracing the flanged head of the guide rail, together with locking means carried by the anvil body and adapted to engage the guide rail to lock the body against longitudinal movement when in use; substantially as described.

4. The combination with parallel track rails and an intermediate guide rail, of an anvil body mounted on the track rails and having a guiding portion engaging the guide rail, and pawls pivoted to the front

and rear sides of the anvil body and adapted to have a locking engagement with the guide rail, the anvil body having recesses above the pawl pivots, and the pawls being capable of being swung upwardly on said pivots into said recesses; substantially as described.

5. The combination with parallel track rails and an intermediate guide rail, of an anvil body mounted on the track rails and having a guiding portion engaging the guide rail, and pawls pivoted to the front and rear sides of the anvil body and adapted to have a locking engagement with the guide rail, the anvil body having recesses above the pawl pivots, and the pawls being capable of being swung upwardly on said pivots into said recesses, said pivots being formed by removable bolts or pins; substantially as described.

In testimony whereof, we have hereunto set our hands.

THOS. VEZIE.
W. L. EVANS.

Witnesses:

A. V. CAMPBELL,
W. J. SPEER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."