F. M. MARQUIS.

DEVICE FOR SHARPENING PLOW SHARES AND POINTS.

No. 188,390. Patented March 13, 1877.

Fig 1.

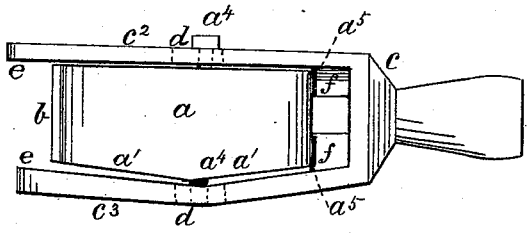


Fig 3.

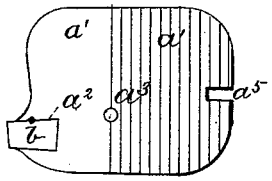


Fig 2.

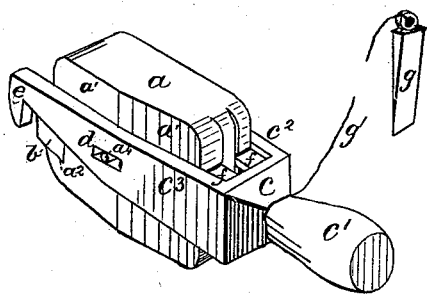


Fig 4.

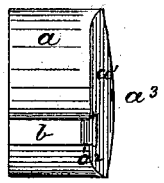
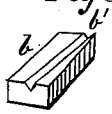


Fig 5.



Witnesses.
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UNITED STATES PATENT OFFICE.

FRANCIS M. MARQUIS, OF WEST MIDDLEBURG, OHIO.

IMPROVEMENT IN DEVICES FOR SHARPENING PLOW SHARES AND POINTS.

Specification forming part of Letters Patent No. **188,390**, dated March 13, 1877; application filed January 24, 1877.

To all whom it may concern:

Be it known that I, FRANCIS M. MARQUIS, of West Middleburg, in the county of Logan and State of Ohio, have invented certain new and useful Improvements in Devices for Sharpening Plow Shares and Points; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in portable anvils, and has for its object to provide a convenient device which may be carried into the field and employed in sharpening the points and shares of plows.

It consists in an anvil provided with a removable nose, and supported by suitable pins or axles, resting in slotted bearings, with capability of a slight horizontal movement between a pair of arms, which are provided at their outer ends with hooks, and at their rear ends are united together, and provided with a handle, and with horizontal guides, which fit into suitable grooves or recesses in, and steady the movement of, the anvil, all of which will be hereinafter fully explained.

In the drawings, Figure 1 is a plan, and Fig. 2 is a perspective, of my device; and Figs. 3, 4, and 5 are detail views thereof.

a is the anvil, made, by preference, of cast metal, and of oval contour, as shown in Fig. 3, though I do not confine myself to this particular form, nor to the use of cast metal, as it will be readily understood the device may be made of wood, with iron plates secured on the bearing sides. It has one side formed with the beveled or sloped surfaces a^1 a^1, adapted to the angle of the sole of the plow when the point is raised and placed on the anvil to be sharpened. It has the dovetailed recess a^2 formed across and near the lower corner of its front edge, to receive and hold the dovetailed block *b*, made of cast-steel, on which the hammering is done when sharpening the share. It is also provided with a central opening, a^3, through which to pass a removable pin or axis, a^4, which supports it in the frame, hereinafter described, and it has formed at its rear end the guide-slots a^5 a^5, which permit a horizontal movement on guides, as hereinafter described. *b* is a removable nose, made of cast-steel, so as to avoid the chipping of the anvil which would result were the latter made of ordinary cast-iron. It is made dovetail in form, and fits neatly in the recess a^2. The dovetail form is given to it and to the recess a^2 so as to provide a secure means by which it is held in the anvil. If desired to render it more secure in its position in the anvil, it may be formed with a groove, *b'*, having a corresponding groove formed in the anvil in the recess a^2, into which may be inserted a key, which will lock it in its position. Its outer face is plane, and on it is placed the share when the latter is to be sharpened. *c* is the supporting-frame, which is composed of the handle c^1 and arms c^2 c^3, the arm c^3 being bent, as shown, to adapt it to the beveled sides a^1 a^1 of the anvil *a*. *d d* are slots formed in the arms c^2 c^3, in which the ends of the pin or axis a^4 rest. They permit a horizontal movement of the anvil, for purposes of adjustment, as hereinafter explained. *e e* are hooks, formed on the outer ends of the arms, and arranged to be opposite, and so that they will hold the share firmly against the plane face of the nose *b*. *f f* are two guides, formed on the inner sides and at the rear ends of the arms c^2 c^3, and are arranged and adapted to enter the side grooves or guide-slots a^5 in the anvil, and cause them to move horizontally. In adjusting the nose *b* to the share, I employ two of these guides, as a better result is thereby secured; but it will be seen that one guide would very well answer the purpose. *g* is a wedge or adjusting-block, adapted to be inserted between the guides *f f* and in rear of the anvil, so as to adjust the latter and hold it to the edge of the share. It may be held to the frame by a cord, *g'*.

To use the device, the plow is laid on its land-side, the edge of the share resting on the face of the nose. The wedge is inserted behind the anvil, and the hooks are drawn firmly against the share, when, by means of a hammer, the edge may be drawn out, as desired. To sharpen the point of the share, remove the pin a^4, and lay the anvil on the ground with the beveled sides a^1 a^1 uppermost. The point of the plow is raised and laid on one of the

sides a^1, in which position it may be hammered out to any desired thinness.

The nose *b* could be made solid with, and a part of, the anvil; but when thus made of cast metal it is liable to become chipped or battered, and thus rendered useless. With a removable nose, as described, I am enabled to employ a harder metal, and in case of its becoming broken or battered a new one can easily be substituted at small cost.

This device is adapted to many uses about a farm other than the particular use for which it is designed and hereinbefore described. It is so constructed that it may be set up on its rear end without the frame, and the nose *b* used as an anvil-face on which to hammer.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A portable anvil, *a*, constructed with a recess, a^2, and beveled side a^1, and provided with a removable nose, *b*, substantially as and for the purpose set forth.

2. The combination, with a portable anvil, *a*, constructed with a nose, *b*, groove or grooves a^5, and pin or axle a^4, of a frame, *c*, constructed with arms c^2 c^3, slots *d*, hooks *e*, guide or guides *f*, and wedge *g*, substantially as and for the purpose set forth.

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

FRANCIS M. MARQUIS.

Witnesses:
C. L. COOLEY,
QUINCY GWYNN.