M. LAFLIN & E. SLOSSON.

PLOW.

No. 104,166. Patented June 14, 1870.

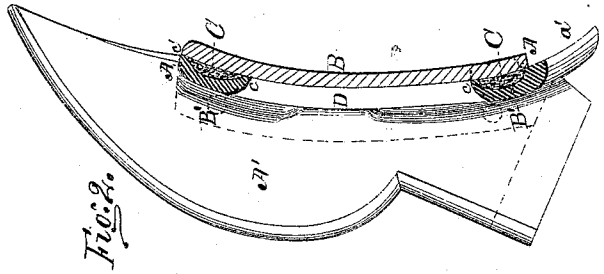

Fig. 2.

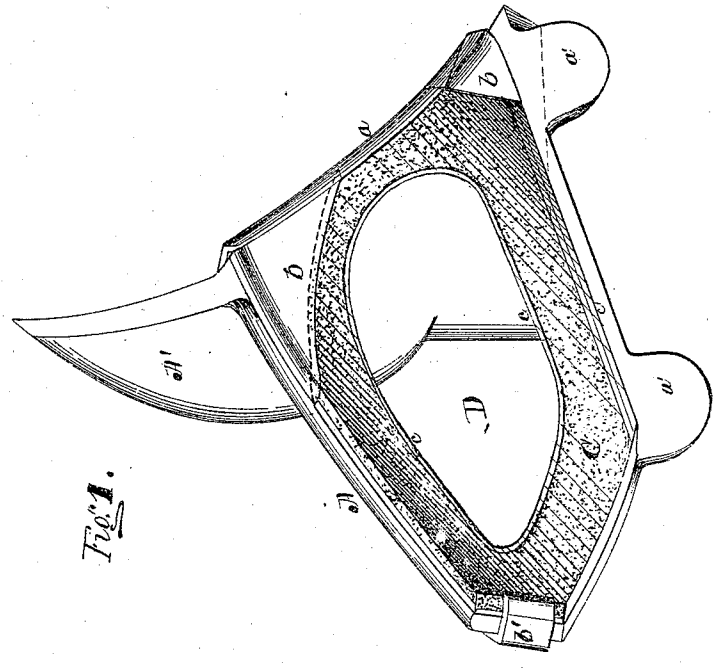

Fig. 1.

Witnesses:

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Letters Patent No. 104,166, *dated June* 14, 1870.

IMPROVEMENT IN PLOWS.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

We, MATTHEW LAFLIN and ENOS SLOSSON, of the city of Chicago, in the county of Cook, in the State of Illinois, have invented new and useful Improvements in Plows; and we hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The object of this invention is to construct the metal frame of a plow in such manner as that a mold-board made of glass, steel, or other metallic substance or compound, will have an even and solid bearing at all points of its support on the metal frame; and

It consists in the so forming the metal frame by casting or otherwise making a groove or hollow space or spaces therein, and filling the said hollow space or spaces with any plastic substance, such as plaster of Paris, prepared India rubber, or any other suitable elastic or plastic material which will preserve a suitable bed or bearing for the glass mold-board to be bedded upon, and thus have an even bearing at all points of the mold-board; and

It consists, further, in the manner of holding or securing the mold-board in its place in the frame of the plow.

Glass mold-boards have been used in plows; but, as commonly secured in the frames, are liable to break, by reason of the want of a perfect bearing at all parts of the mold-board upon the frame, as in casting the frame it may not be perfect in its shape, by reason of warping or springing, after being cast, in the process of cooling, or the glass mold-board may not be perfect in shape to fit the frame, and have an even bearing; hence the want of a remedy for these heretofore defects, and save in use the glass mold-boards that, under the former method of bedding on the metal frame alone, would be liable to be broken.

Figure 1 in the drawings represents the metal frame of a plow, and

Figure 2 is an upright cross-section of the same.

A represents the frame which supports the mold-board.

A′ is the standard and landside of the frame.

The frame A is constructed, on the side to which the mold-board is applied, to have a bearing to receive said mold-board upon, and the middle or central part D is open, in order to give a better bed for the glass mold-board to rest upon near its extreme edges.

Such bearings in the frame are grooved or hollowed out, as seen in fig. 2, at B′, which grooves, hollows, or spaces, are filled with any suitable plastic or elastic material, C, to give a firm and even bed to the glass mold-board B at the points *c c c′ c′*, so that the mold-board will have an even bed at all parts of its bearing up the frame A, and not be liable to break when pressure comes upon its outer or face side.

The hollow or space B′ in frame A may be divided into smaller hollows or corrugations, which may go transversely across the mold-board, or they may be constructed on radial or concentric lines, as the fancy of the maker may dictate, without departing from our invention, as the object is to give a sufficient space for the plastic or elastic material, and at the same time to hold it in its place, and give the necessary bed to the mold-board.

b b are lugs cast on frame A, at the upper and lower forward angles of said frame, and have dovetailed or underbeveled sides next the mold-board B, as seen in dotted lines in fig. 1.

The glass mold-board B is made in form to correspond with frame A, and has its forward end, upper and lower angles, made beveling, to fit in and be held in place by the beveled sides of lugs *b b* and breast of the frame A, as seen in fig. 1.

b′ is a metal clasp placed near the upper edge of the heel of the mold-board, its forward edge not projecting far enough to be even with the face of the mold-board, and is bent at such an angle as to go to the inner side of the frame, and is held in its place by a screw-bolt.

Other means for holding this clamp may be used, but this we consider the best.

When the forward parts of the glass mold-board are shaped and beveled to fit the lugs *b b* and the breast of the frame at *a*, and the hollow or space B′ filled with the plastic or elastic material C, to fit the back of the glass mold-board at all parts equally alike, and the mold-board in its position, clamp *b′* is then put in its place, and the screw-bolt (or other means of attaching the clamp to the frame) is screwed home, and the mold-board is securely fastened, and will not be easily displaced. This method of bedding and holding the mold-board in place is simple, easily applied, and as easy to take the mold-board away whenever necessary, as but a single screw-bolt is to be turned out to release the mold-board or fasten it in its place whenever required.

The usual lugs *a′ a′* project from the lower part of frame A below the bottom edge of the mold-board, and to which the share is bolted or secured.

Having thus described our invention,

What we claim, and desire to secure by Letters Patent, is—

1. The metal frame A, having the hollow or space B′ therein, for the purpose substantially as described.

2. The mode of bedding the mold-board B in the metal frame A, as herein described and for the purposes set forth.

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