

F. R. BELL.
 PLOW.

No. 178,898.

Patented June 20, 1876.

Fig. 1.

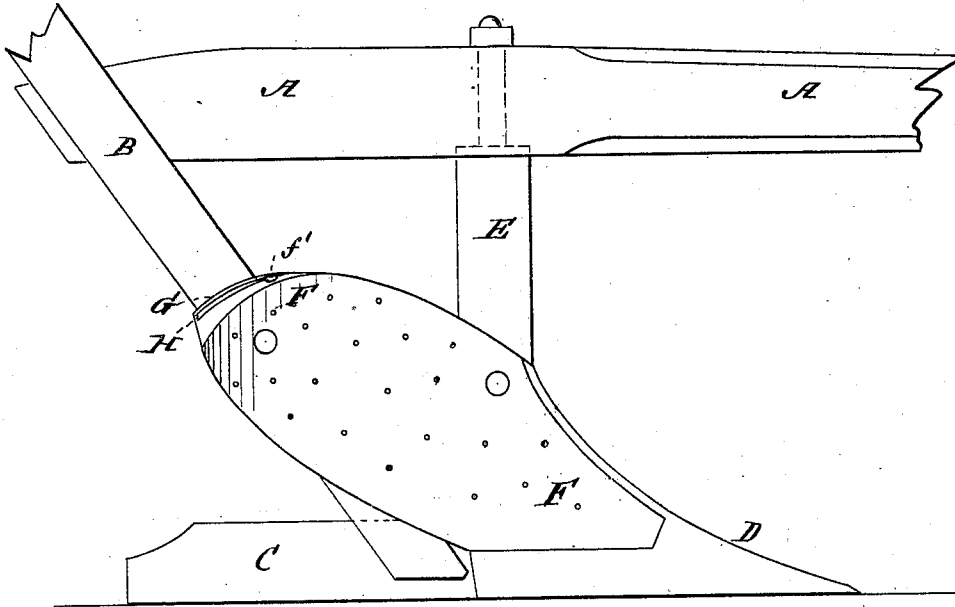


Fig. 2.

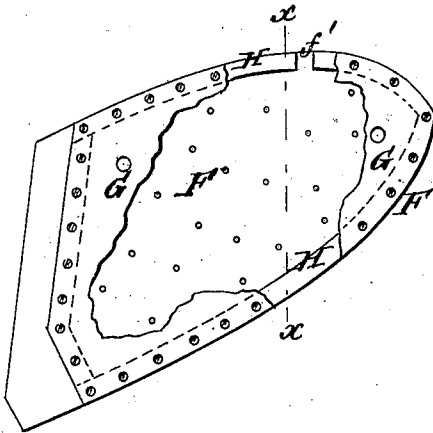
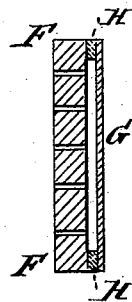


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANCIS R. BELL, OF MARSHALL, TEXAS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **178,898**, dated June 20, 1876; application filed April 25, 1876.

To all whom it may concern:

Be it known that I, FRANCIS R. BELL, of Marshall, in the county of Harrison and State of Texas, have invented a new and useful Improvement in Plows, of which the following is a specification:

Figure 1 is a side view of my improved plow. Fig. 2 is a detail view of the inner side of the mold-board, part of the metallic facing being broken away. Fig. 3 is a detail cross-section of the mold-board taken through the line *xx*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to improve the construction of my improved mold-board for which Letters Patent, No. 163,352, were granted to me May 18, 1875, to make it more effective in preventing the black lands of Texas and other sticky and waxy soils from adhering to it, and to enable a proper furrow to be turned, however sticky and waxy the soil may be.

The invention consists in a wooden mold-board faced upon its rear side with metal, having a recess or chamber between it and said metallic facing, and perforated with numerous small holes, as hereinafter fully described.

A is the beam, B is the handle, C is the land-side, D is the point, and E is the standard, of a plow to which my improved mold-board has been applied. F is the mold-board

which is made of wood, and may be made of any desired size or shape, and may be applied to any desired kind of plow. To the rear side of the mold-board F is applied a facing, G, of metal, forming a recess or chamber between it and the mold-board F, to serve as a reservoir for oil or other lubricating material.

The rear side of the mold-board F may be recessed, if desired, and rubber or other suitable packing, H, should be inserted between it and the edges of the facing G, to prevent the oil from escaping at said edges. The oil or other lubricating material is poured in through a hole, *f'*, in the upper edge of the mold-board F, which hole is then closed, and should be kept closed while the plow is in use. The mold-board F is perforated with numerous small holes to facilitate the passage of the oil through it. The wooden mold-board F may be applied to a casting, if desired.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A wooden mold-board, F, faced upon its rear side with metal, having a recess or chamber between it and said metallic facing, and perforated with numerous small holes, substantially as herein shown, and for the purpose described.

FRANCIS R. BELL.

Witnesses:

G. M. PHILLIPS,
F. E. SLOAN.