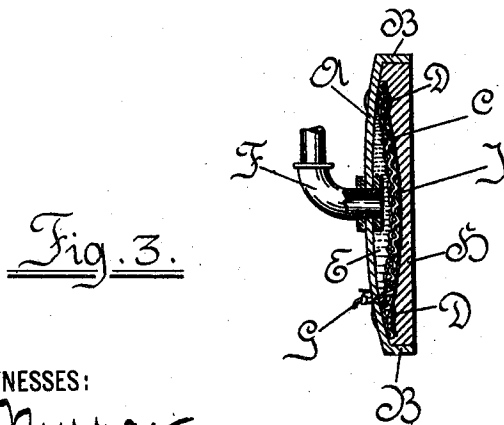
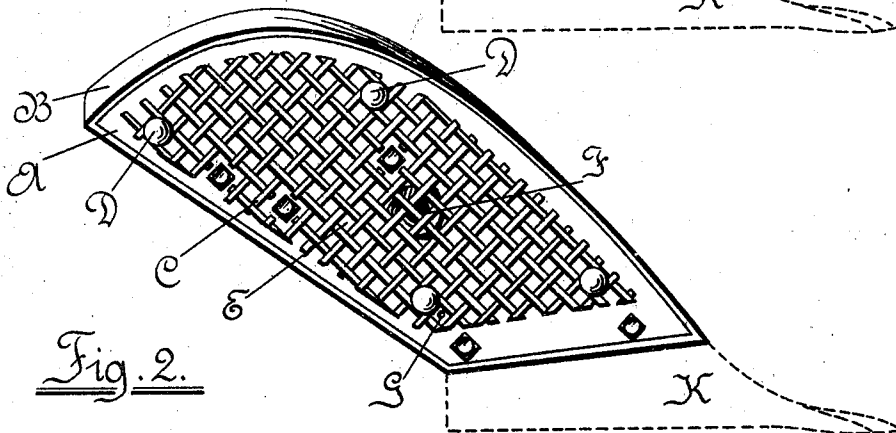
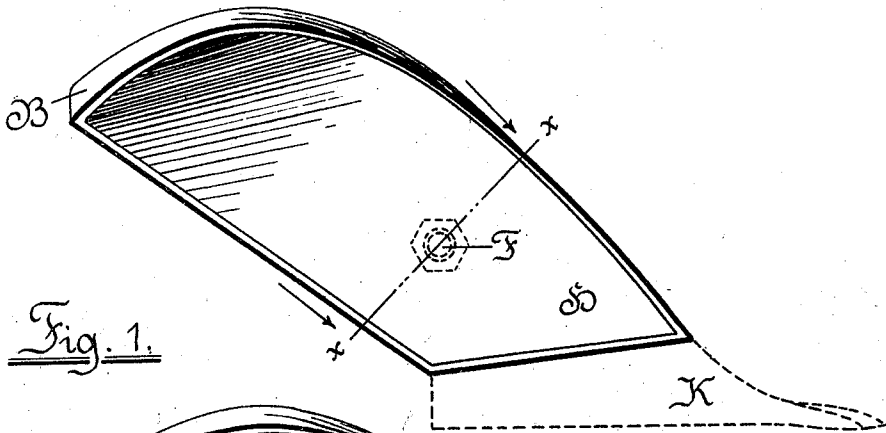


C. K. MILLER.
MOLDBOARD.
APPLICATION FILED SEPT. 5, 1911.

1,036,675.

Patented Aug. 27, 1912.



WITNESSES:

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CHARLES K. MILLER, OF WAXAHACHIE, TEXAS, ASSIGNOR OF ONE-THIRD TO R. J. COLEMAN AND ONE-THIRD TO W. A. MARTIN, BOTH OF WAXAHACHIE, TEXAS.

MOLDBOARD.

1,036,675.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed September 5, 1911. Serial No. 647,559.

To all whom it may concern:

Be it known that I, CHARLES K. MILLER, a citizen of the United States, residing at Waxahachie, in the county of Ellis and State of Texas, have invented certain new and useful Improvements in Moldboards, of which the following is a specification.

My invention relates to new and useful improvements in mold-boards, and relates more particularly to certain improvements upon the construction covered by the applicant's previous application filed April 1, 1911, under Serial Number 618,365.

The primary object of the invention is to provide a mold-board to which the earth will not adhere.

In working certain kinds of land, such as "black waxy" land, or in plowing fields that are wet and muddy, the upturned earth has a strong tendency to adhere to the mold-board on a plow, producing the necessity of frequent cleaning and somewhat increasing the draft. It has been found that this tendency may be overcome by providing the mold-board of a plow with a facing of material, such as plaster-of-Paris, which will readily shed the earth, and will not require any cleaning if kept slightly moist. But it has been also found that after a mold-board of this description has been used upon a plow for sometime, the plaster-of-Paris coating is apt to become quite dry, and under such circumstances, the material loses to some extent its ability to "scour", or to shed the earth. In using such a mold-board therefore it becomes necessary at such times to throw water on the plaster-of-Paris coating, so that it will regain its efficiency.

The improved feature presented in this invention consists in the provision of a recess or container between the plaster-of-Paris coating and the mold-board proper, which container will hold a sufficient supply of water to keep the coating constantly moistened during an entire day's plowing or longer, the moisture gradually seeping through the plaster-of-Paris, and being replaced therein as rapidly as it is evaporated, or taken up by the earth.

Finally the object of the invention is to provide a device of the character described, that will be strong, durable, simple and efficient, and comparatively easy to construct, and one that will not be likely to get out of working order.

With these and various other objects in view, my invention has relation to certain novel features of the construction and operation, an example of which is described in the following specification, and illustrated in the accompanying drawing, wherein:

Figure 1 is a side elevation of the herein described mold-board, occupying its proper working position with relation to the plow-share, the latter being shown in dotted line. Fig. 2 is a similar view of the mold-board in side elevation, with the plaster-of-Paris omitted, so that the wire netting is revealed which forms a partition between the plaster-of-Paris coating, and the recess at the back of said coating. Fig. 3 is a view of the mold-board in cross-section, the section being taken upon the line *x-x* of Fig. 1.

Referring now more particularly to the drawing, wherein like letters of reference designate similar parts in all the figures, the letter A denotes a sheet of metal, preferably of steel, having the shape and form of an ordinary mold-board, but having all of its edges upturned at right angle to said sheet, as indicated at B. A piece of screen or netting C formed of heavy wire is secured to the face of the plate A by a number of bolts or rivets D. The outline of the netting C conforms to the face of the plate A, the edges of said netting being slightly spaced from the flange B. The netting is made slightly curved, so that its central portion is spaced slightly from the face of the plate A leaving a recess E, adapted to be filled with water. A pipe F passing through the plate A near the center thereof communicates with the recess E, and is adapted to supply said recess with water. A drain-cock G may be made to communicate through the plate A with the lower portion of the recess E, so as to permit the water to be readily drained from said recess in order to prevent the plate A being rusted when the plow is not in use.

The plaster-of-Paris facing is denoted by the letter H. Before this facing is applied to the plow, a sheet J of paper or some similar fabric should be laid upon the wire netting C to prevent the plastic material from passing through the apertures of the netting. The coating of plaster-of-Paris should be given a smooth surface that will come flush with the edges of the flange B, said

flange acting to retain the coating securely in place upon the mold-board. The plow-share, in conjunction with which the above described mold-board is used, is designated 5 by the letter K, and is shown in dotted lines.

It has been found that a mold-board constructed on the principles above described will require no cleaning, and will throw off all kinds of earth freely. The water will 10 ooze through the plastic coating at a very gradual rate, yet sufficiently fast to keep the surface of said coating damp enough to readily throw off the upturned earth. Since the wear upon a mold-board is very slight, 15 the above described device may be used for a long period of time before it will be necessary to replace the plaster-of-Paris coating. It is apparent, however, that this may be done in a very short time, and at a low cost.

20 It is possible that some other plastic material than plaster-of-Paris might be employed to form the mold-board facing H,

and it is also clear that the recess at the back of the mold-board might possibly be designed in some other manner than that 25 shown in the drawing. The invention is therefore presented as including all changes and modifications, which may be included within the scope of the following claim.

What I claim is:

30 A mold-board, consisting of a metal plate, having its edges upturned upon the face, a wire netting secured to said face, and having its central portion spaced therefrom, and a coating of plastic material retained 35 upon the face of the mold-board by said screen and the upturned edges.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES K. MILLER.

Witnesses:

G. W. COLEMAN,
J. E. BATCHLOR.

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