(No Model.)

C. O. DAHLMAN.

PLOW MOLD BOARD.

No. 263,122. Patented Aug. 22, 1882.

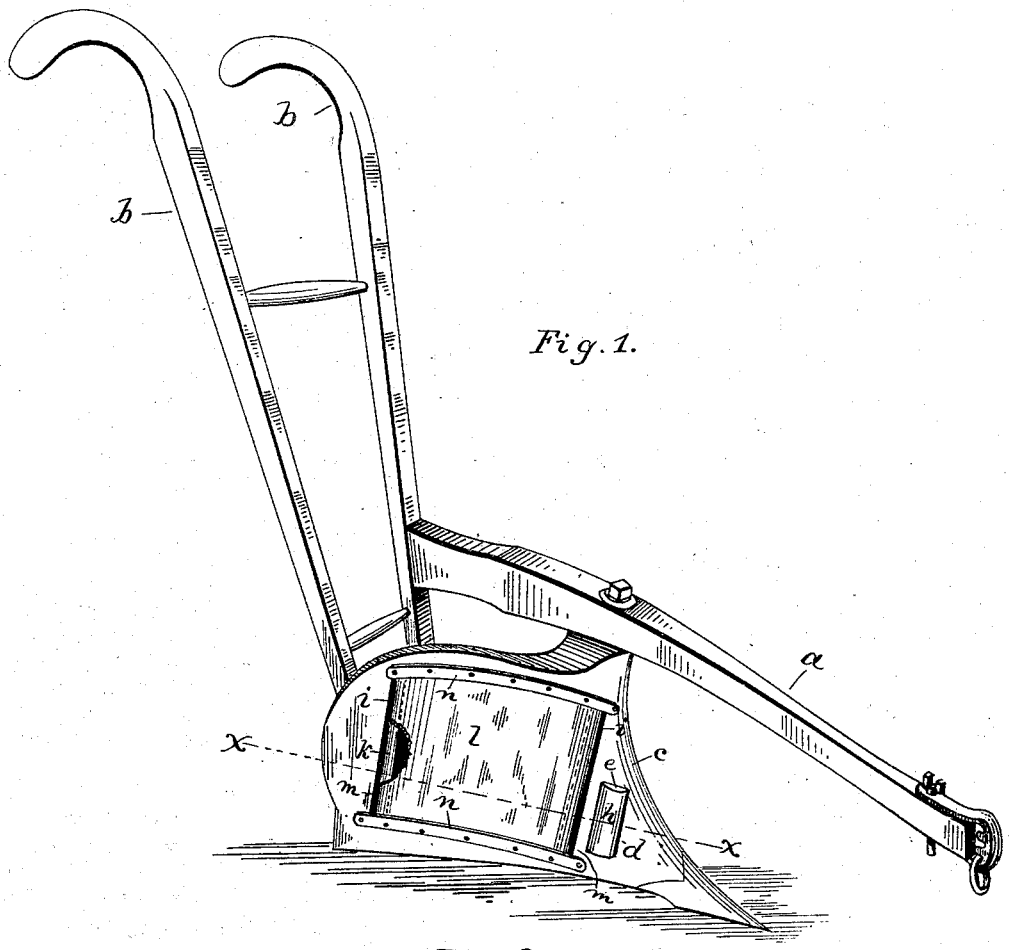
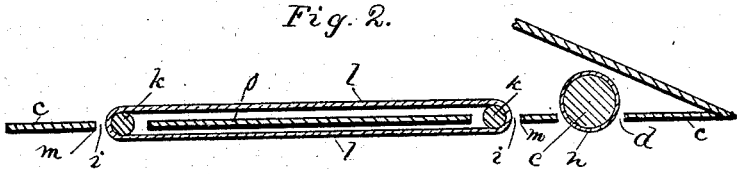


Fig. 1.

Fig. 2.



WITNESSES:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

CARL O. DAHLMAN, OF WILLIS, TEXAS.

PLOW MOLD-BOARD.

SPECIFICATION forming part of Letters Patent No. 263,122, dated August 22, 1882.

Application filed April 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, CARL OSCAR DAHLMAN, of Willis, in the county of Montgomery and State of Texas, have invented a new Improvement in Plow Mold-Boards; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved plow, and Fig. 2 is a horizontal section in the line *x x*, Fig. 1.

My invention relates to improvements in the mold-boards of plows, whereby less power is required to propel the plow and the mold-board is constantly kept scoured; and it consists of a circular roll arranged in the mold-board near the point and covered with belting, which, in the forward movement of the plow, is revolved and carries the earth backward on an endless belt passing around rollers journaled in the ends of transverse slots made in the mold-board, whereby, in the forward movement of the plow, the belt is revolved and the friction of the earth on the mold-board decreased and the plow scoured, as hereinafter more fully set forth.

In the accompanying drawings, *a* represents the beam, *b b* the handles, and *c* the mold-board, of a plow of the usual construction.

d represents a slot made in the mold-board *c* near the point of the plow. In the upper and lower sides of the slot *d* is placed a circular roll, *e*, covered by a piece of belting, *h*.

i i represent two inclined transverse slots made in the mold-board, one near the circular roll *e* and the other near the rear end of the mold-board.

k k represent rollers, the ends of which are journaled in the ends of the slots *i i*.

l represents an endless belt passing around the rollers *k k*, the endless belt *l* passing through the slots *i i*, around the rollers *k k*, and resting in its revolution on the outer face, *o*, of the mold-board, between the slots, the mold-board thus supporting the belt and earth. The slots *i i* are made narrow to receive the rollers *k k* and the endless belt *l* and leave a slight space between the outer edges, *m m*, of the slots *i i* and the endless belt *l*, so that the edges *m* of the slots will act as scrapers to the belt in its revolution, removing all earth sticking to the belt. The endless belt *l* is protected at top and bottom by means of guards *n n*, secured to the mold-board along and near the edge of the endless belt, as shown in the drawings, and so arranged that the belt at top and bottom shall revolve closely against the guards *n*. The belts *h l* are so constructed as to pass in their revolutions almost in the same plane with the mold-board of the plow, and the belts are oiled when necessary.

In the forward movement of the plow the earth will turn back over the circular roll *e*, provided with the belt *h*, causing the latter to revolve and convey the earth rearward to the belt *l*, which is also revolved rearward on the rollers *k k*, and thence passes off the mold-board.

By this arrangement and construction of parts much less power is required to propel the plow, and the mold-board and endless belt *l* will be kept cleaned.

I am aware that a plow mold-board consisting of one or more endless traveling belts, chains, or bands, with two or more rolls at each end of the endless belt for carrying it, has heretofore been employed; and I am also aware that a plow mold-board has heretofore been provided with a series of rolls journaled in the ends of transverse slots cut in the mold-board, and I therefore lay no claim, broadly, to such constructions, my invention being confined to the construction of parts whereby the endless belt is guided in its revolution by the guards, cleaned from dirt by the edges of the slots, which act as scrapers, and supported, with its weight of dirt, between the slots by that part of the mold-board lying between the slots.

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

1. The combination, with the mold-board *c*, provided with the transverse parallel slots *i i*, with the belt-supporting piece *o* between them, and scrapers *m m*, of the rollers *k k*, journaled in the ends of the slots, endless apron *l*, and guards *n n*, substantially as described, and for the purpose set forth.

2. The combination of the mold-board *c*, provided with the circular roll *e*, having belt *h*, slots *i i*, belt-supporting piece *o* between them, scrapers *m m*, rollers *k k*, endless apron *l*, and guards *n*, substantially as described, and for the purpose set forth.

CARL OSCAR DAHLMAN.

Witnesses:

THOMAS ROBINSON,

A. F. GOLDING.