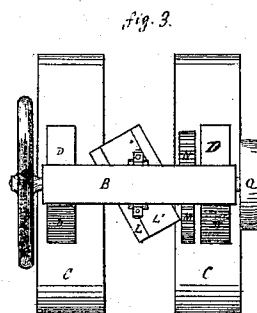
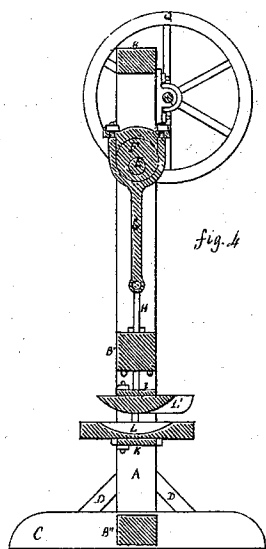
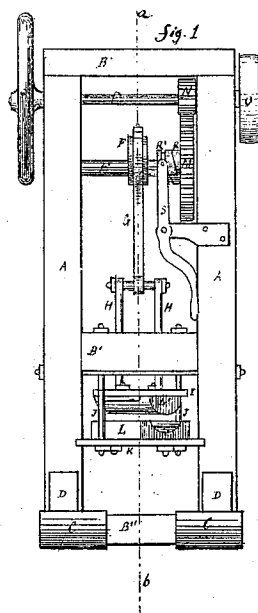
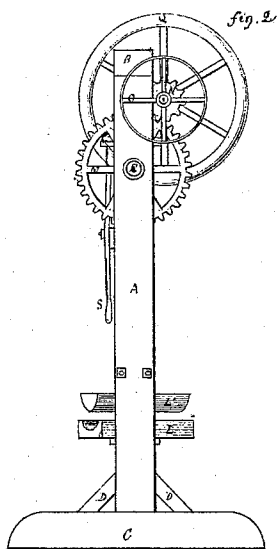


A. THOMPSON.

Plow Iron.

No. 103,942.

Patented June 7, 1870.



Witnesses: *E. Rose*
C. W. Denhart

Andrew Thompson

United States Patent Office.

ANDREW THOMPSON, OF OTTAWA, ILLINOIS.

Letters Patent No. 103,942, dated June 7, 1870.

IMPROVED MOLD-BOARD PRESS.

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

To all whom it may concern :

Be it known that I, ANDREW THOMPSON, of Ottawa, in the county of La Salle, in the State of Illinois, have invented a new and improved Mold-board Press; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making part of this specification, in which—

Figures 1 and 2 are vertical plans;

Figure 3 is a horizontal plan; and

Figure 4 is a section through *a b*, fig. 1.

This invention relates to an improvement in a machine used in plow-factories for the purpose of giving the proper bend to the mold-boards, they being previously heated in a furnace.

The improvement consists in using an eccentric driven by cog-wheels, to obtain the required pressure to shape the mold-boards.

The improvement also consists in so constructing the machine that, by its simplicity and cheapness of construction, and also by its handiness in operation, it is best adapted for practical use in plow-factories.

I construct a frame of the two vertical timbers A A, which are united by the cross-pieces B B' B'', and which stand on the foot-boards C C, braced by the braces D D D D.

A shaft, E, passes through thimble-boxes in the timbers A A, and has, in the middle of its length, an eccentric, F, the rod G of which is attached to the two vertical rods H H, which pass down through the cross-timber B' and are riveted to the plate I.

Two other rods, J J, also pass through the timber B'; and are bolted to the plate K.

This plate K receives the bottom mold, L, which is fastened thereto by means of two bolts, in such a manner that it can easily be taken off and exchanged for another of a different shape.

The top mold, L', is fastened to the plate I in a similar way.

The shaft E has, on one side, a cog-wheel, M, into which meshes a pinion, N, driven by a pulley, O, placed on one end of the shaft P, while at the other end is a fly-wheel, Q, the object of which is to assist in carrying the eccentric F over the point of greatest pressure, which is at the lowest part of its stroke.

The cog-wheel M is loose on the shaft E, and has fastened to it a clutch, R, which engages into a similar clutch R', which slides on the shaft E on parallel keys by means of the lever S.

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

The mold-board press, made as described, that is to say, of the eccentric F, the rod G, the rods H H and J J, the cog-wheel M, and pinion N, the pulley O, the fly-wheel Q, the clutch R and R', and the lever S, in combination with the molds L and L', arranged together as described and for the purpose specified.

ANDREW THOMPSON.

Witnesses :

E. ROSE,

C. W. DENHAM.