

Harvey Briggs' "Flow."

PATENTED
DEC 10 1867

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Fig: 1

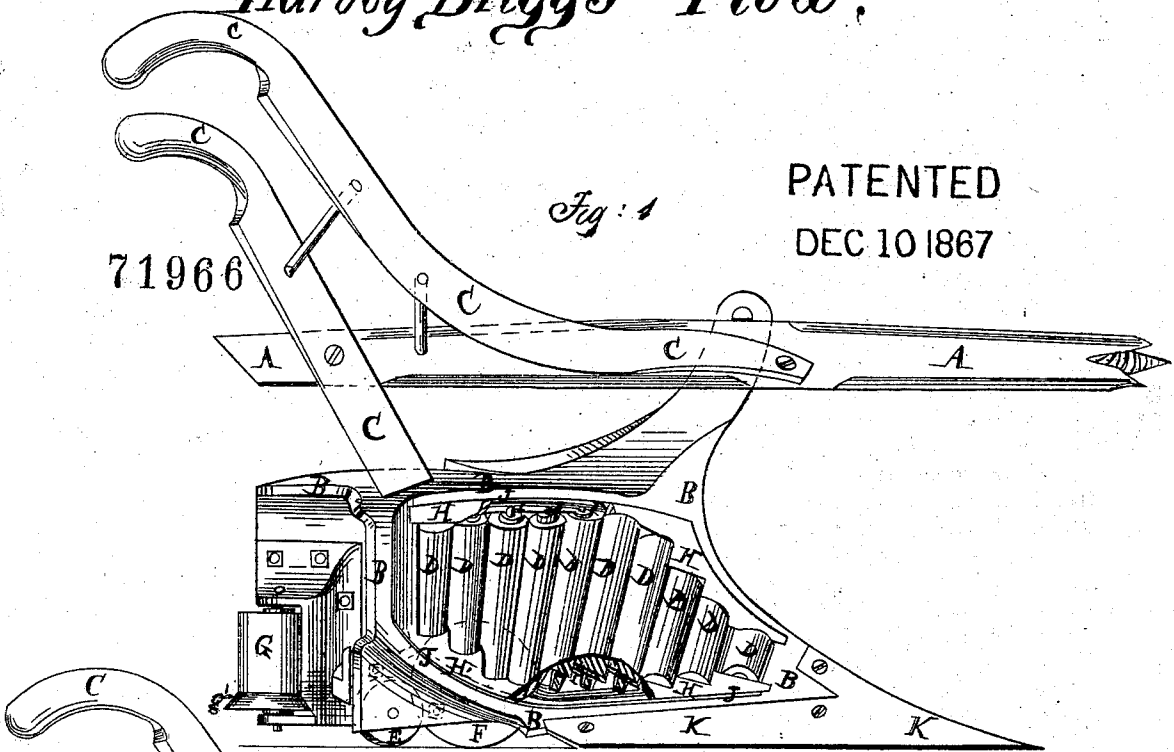
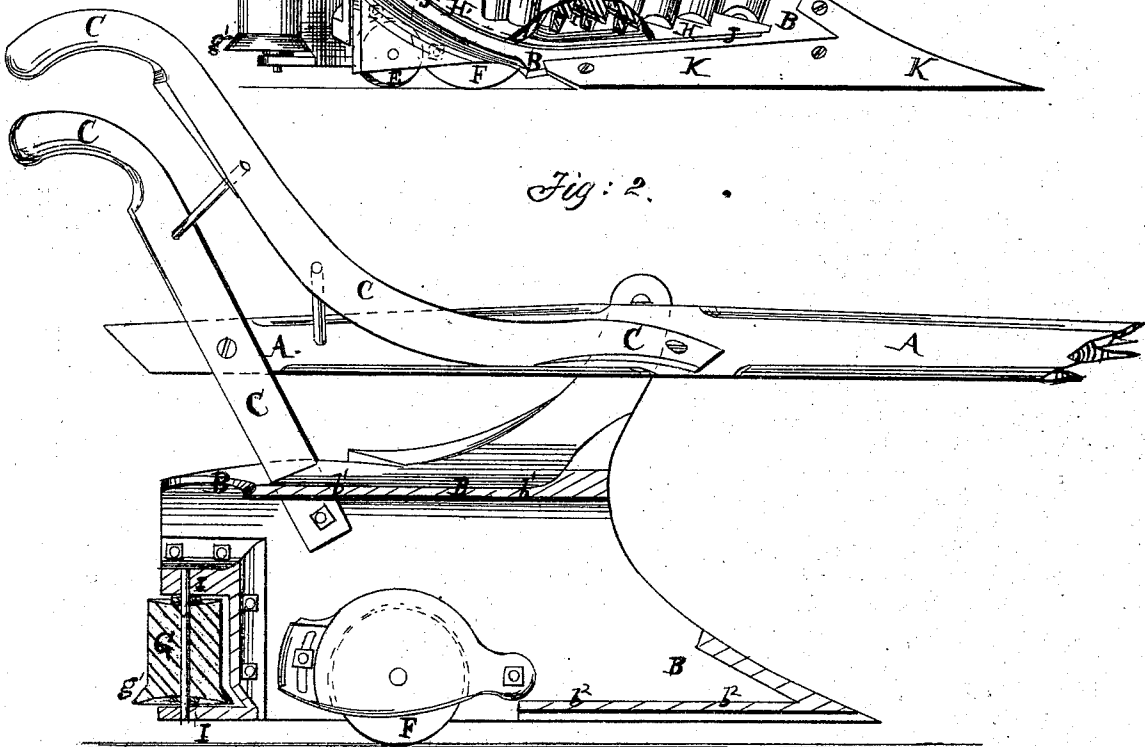


Fig: 2.



Witnesses.

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HARVEY BRIGGS, OF SMITHLAND, KENTUCKY.

Letters Patent No. 71,966, dated December 10, 1867.

IMPROVEMENT IN PLOUGHS.

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, HARVEY BRIGGS, of Smithland, in the county of Livingston, and State of Kentucky, have invented a new and useful Improvement in Ploughs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my improved plough, parts being broken away to show the construction.

Figure 2 is a vertical longitudinal section of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved plough for breaking up sod or prairie land, which shall be strong and durable in construction and effective in operation; and it consists in the construction, combination, and arrangement of the various parts, as hereinafter more fully described.

A is the beam, and C are the handles of the plough, about the construction of which parts there is nothing new. The land-side and mould-board frame of the plough are cast in one piece, B, which is further strengthened by the upper floor b^1 and the lower floor b^2 , also cast solid with the mould-board frame and land-side, as shown in figs. 1 and 2. The mould-board frame is formed with a groove or recess to receive the boxing-frame H of the rollers D. The boxing-frame H is formed in two parts, as shown in fig. 1, so that, should a part of the said frame or one of the rollers D become broken or worn, it may be conveniently replaced with a new one. The rollers D are made slightly cone-shaped, and their journals are pivoted in sockets formed in the inner part of the boxing-frame H for their reception. I are washers or packing, which are made of square or diamond-shaped pieces of rubber or other suitable elastic material, and are placed upon the journals of the rollers and wheels to prevent the dirt and sand from finding their way in and interfering with the operation of the said rollers. The ends of the rollers should be made a little concave for the reception of the said washers or packing. An oil-trench or channel, J, to introduce oil to the roller-journals, should be formed in the inner part of the frame C, so that the oil may find its way to all the journals and keep them properly lubricated. E is a friction-wheel, the bearing of which is securely attached to the inner side of the rear end of the mould-board frame, as shown in fig. 1. F is a friction-wheel, the bearing of which is adjustably attached to the inner side of the middle part of the land-side of the plough, as shown in fig. 2, so that it may be adjusted as required to regulate the pitch of the plough. The wheels E and F roll along the bottom of the furrow, receive the downward pressure of the plough, and greatly diminish the friction. G is a vertical roller having a flange, g^1 , formed around its lower end, the bearings of which are securely attached to the rear end of the land-side of the plough, in such a position that the said roller may project a little beyond the said land-side, so as to receive the inward pressure of the sod or furrow being turned, and diminish the friction, the flange g^1 preventing the rear part of the plough from rising, and causing the plough to run much more steadily than it otherwise would. K is the share, which is made of steel, and the point of which should be on a level with the friction-wheels E and F.

I claim as new, and desire to secure by Letters Patent—

1. Forming the land-side, mould-board frame, and upper and lower strengthening-floors b^1 and b^2 solid in one piece B, substantially as herein shown and described, and for the purpose set forth.
2. The combination of the conical rollers D and their boxing-frame H with the mould-board frame B, substantially as herein shown and described, and for the purpose set forth.
3. Forming the boxing-frame H in two parts, substantially as herein shown and described, and for the purpose set forth.
4. Forming an oil-trench or channel, J, in the boxing-frame H, substantially as herein shown and described, and for the purpose set forth.
5. The combination of the elastic washers or packing I with the journals and bearings of the rollers and wheels, substantially as herein shown and described, and for the purpose set forth.
6. The combination of the adjustable friction-wheel F and stationary friction-wheel E with the solid land-side and mould-board frame B, substantially as herein shown and described, and for the purpose set forth.
7. The combination of the vertical flanged friction-roller G with the land-side of the plough, substantially as herein shown and described, and for the purpose set forth.

HARVEY BRIGGS.

Witnesses:

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