

No. 721,920.

PATENTED MAR. 3, 1903.

J. Z. STAFFORD.  
DITCHING PLOW.

APPLICATION FILED SEPT. 18, 1902.

NO MODEL.

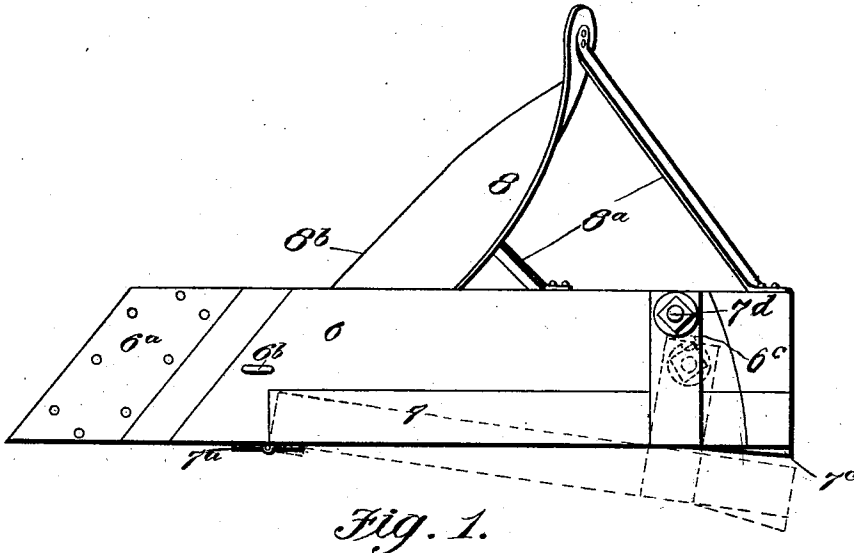


Fig. 1.

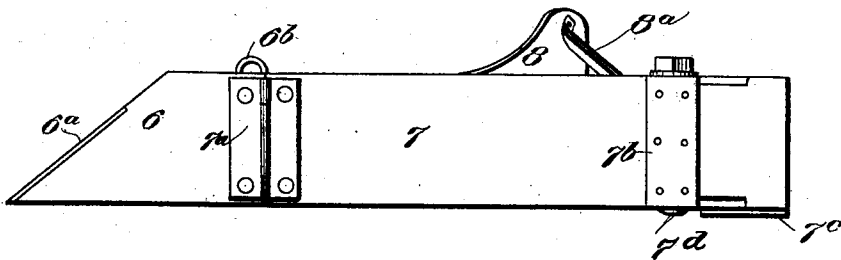


Fig. 2.

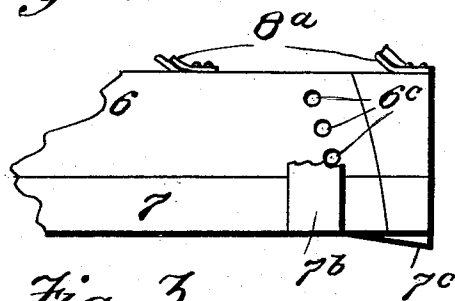


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

JOSEPH Z. STAFFORD, OF CANYON FERRY, MONTANA.

## DITCHING-PLOW.

SPECIFICATION forming part of Letters Patent No. 721,920, dated March 3, 1903.

Application filed September 18, 1902. Serial No. 123,853. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH Z. STAFFORD, a citizen of the United States, residing at Canyon Ferry, in the county of Lewis and Clarke and State of Montana, have invented certain new and useful Improvements in Ditching-Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to ditching-plows, and is designed to be particularly used to clean or scrape ditches which have first been plowed by an ordinary plow.

The object of the invention is to form an improved device of the character stated which will clean several furrows and lift and throw the loose dirt to one side of the ditch.

In the accompanying drawings, Figure 1 is a top plan view of the device. Fig. 2 is a side view thereof. Fig. 3 is a fragmentary plan view showing the construction permitting adjustment of the landside.

Referring specifically to the drawings, 6 indicates a beam or block which is beveled and shaped at its front end to form the plow-point, which is covered with a metal plate 6<sup>a</sup> in case the beam is formed of wood. An eyebolt 6<sup>b</sup> permits the attachment of draft-animals. A landside 7 is set into the beam behind the point and is hinged thereto by a hinge 7<sup>a</sup>, which permits an adjustment of the landside according to the width of the ditch. The braces 7<sup>b</sup>, which extend from the landside over and under the beam, hold the landside at such adjustment, being fixed by a bolt 7<sup>d</sup> through the braces and through one of a series of holes 6<sup>c</sup> in the beam. These braces are placed at both top and bottom of the landside and beam for the sake of strength, inasmuch as the amount of the earth moved and the pressure are usually considerable. At

the lower edge of the landside is a projecting plate 7<sup>c</sup>, which enters the land beside the furrow and holds the plow to its work by preventing jumping thereof. The plate is suitably shaped and sharpened to cut under the land.

The moldboard is indicated at 8 and is of peculiar shape. It is attached by angle-irons to the side of the beam 6, some distance behind the point, and is supported by braces 8<sup>a</sup>.

The lower edge 8<sup>b</sup> of the moldboard is a cutting edge and extends laterally, substantially flush with the bottom of the beam. The purpose of this is to cut under the furrows made in advance by the ordinary plow and to lift and move the same to give the requisite width to the ditch. From the cutting edge the moldboard curves backwardly and outwardly, as usual, and serves to lift and throw the dirt cleanly to the furrow side of the ditch, which is ordinarily the lower side.

In operation the block or beam is run in the last furrow. The moldboard takes under the furrows and lifts and throws the same, and by reason of the location and shape of the moldboard a wider ditch can be cleaned than with those scrapers in which the moldboard is presented perpendicularly to the earth of the furrows. My plow lifts the dirt out and over to the lower side of the ditch being plowed. It will be found useful particularly in cleaning ditches and in roadwork.

What I claim as new is—

A ditching-plow comprising a beam pointed at its front end, a moldboard and a landside attached to the beam between its front and rear ends, and braces from the rear end of the beam to the moldboard and landside, the landside and its braces being adjustable with respect to the beam.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH Z. STAFFORD.

Witnesses:

MAUD R. STAFFORD,  
ALBERT I. LOEB.