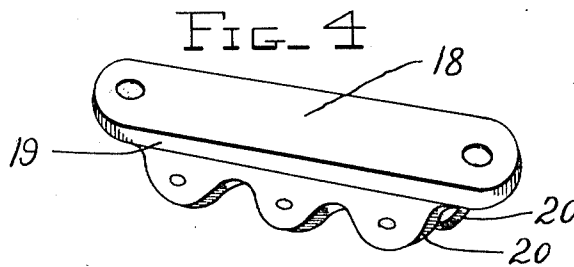
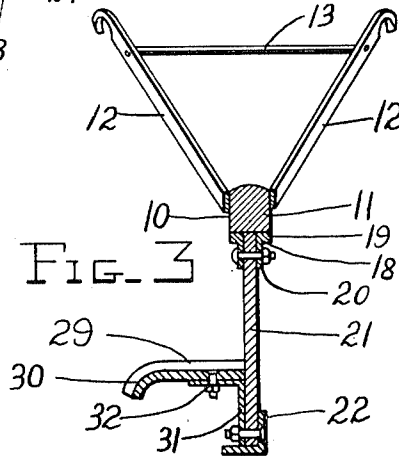
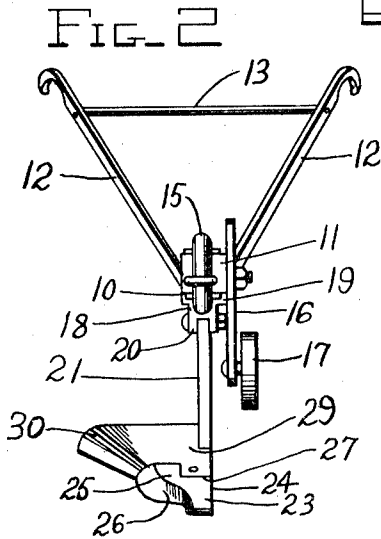
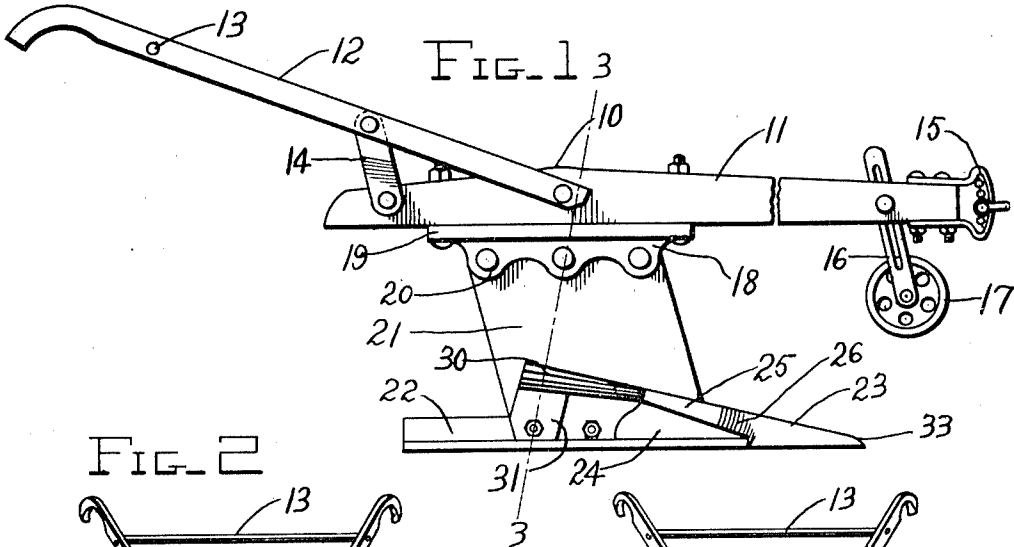


G. & M. D. FAIR.
 PLOW.
 APPLICATION FILED JUNE 8, 1911.

1,012,534.

Patented Dec. 19, 1911.

2 SHEETS-SHEET 1.



Witnesses

J. H. England.
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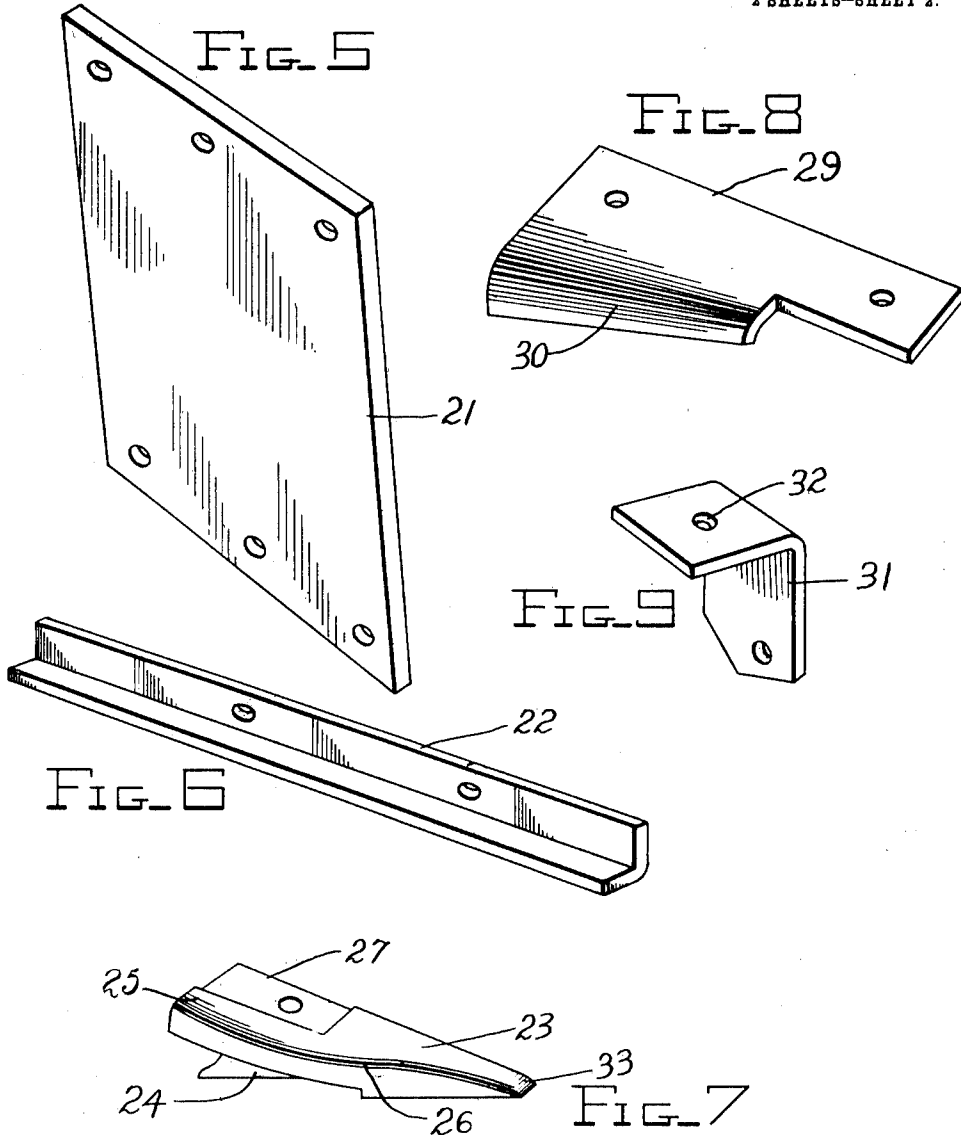
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UNITED STATES PATENT OFFICE.

GEORGE FAIR AND MILTON D. FAIR, OF BLAINE, MICHIGAN.

PLOW.

1,012,534.

Specification of Letters Patent.

Patented Dec. 19, 1911.

Application filed June 8, 1911. Serial No. 631,995.

To all whom it may concern:

Be it known that we, GEORGE FAIR and MILTON D. FAIR, citizens of the United States, residing at Blaine, in the county of St. Clair, State of Michigan, have invented certain new and useful Improvements in Plows; and we 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.

This invention relates to new and useful improvements in plows and more particularly to that class adapted to be used for the purpose of removing beets from the ground.

An object of this invention is the provision of a plow comprising a beam from which depends a standard supporting a shoe, the said shoe provided with a lifting means for the purpose of removing beets or the like from the ground without danger of injury thereto.

Another object of this invention is the provision of a plow which consists of a beam from which extends a downwardly projecting standard having secured to its lower end a shoe provided with an enlarged point and a lifting plate secured to said shoe and point and to the standard by means of a suitable bracket which serves to retain the various parts in their normal positions.

A further object of this invention is to improve and simplify devices of this character rendering them comparatively simple and inexpensive to manufacture, reliable and efficient in use and readily operated.

With the above and other objects in view this invention resides in the novel features of construction, formations, combinations and arrangements of parts to be hereinafter more particularly described, claimed and illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of our improved plow. Fig. 2 is a front elevation thereof. Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a detailed perspective view of the standard bracket. Fig. 5 is a detailed perspective view of the standard. Fig. 6 is a detailed perspective view of the shoe. Fig. 7 is a detailed perspective view of the point. Fig. 8 is a detailed perspective view of the lifting board.

Fig. 9 is a detailed perspective view of the bracket.

Referring to the drawings by characters of reference, the numeral 10 designates generally our improved plow which consists of a plow beam 11, to a point in spaced relation from the rear extremity whereof are secured upwardly curved diverging handles 12 connected at their outer terminals by a brace 13 and to the rear extremity of the beam 11 by upwardly extending brackets 14. The forward end of the plow beam 11 has secured thereto the usual draft attachment 15, while the customary standard 16 is adjustably secured adjacent the said draft attachment and has journaled to its lower terminal the usual supporting wheel 17. A standard bracket 18 is bolted or otherwise secured to the rear of the beam 11 and consists of a base plate 19 from the lower extremity of which project parallel flanges 20, between which is bolted or otherwise removably secured a forwardly slanting standard 21. A shoe 22 is bolted to the lower terminal of the standard 21, the said shoe comprising an angle member to the forward vertical flange of which is removably secured a shoe point 23. This shoe point 23 consists of a vertical side member 24 from the upper edge of which extends a laterally projecting flange 25, the outer side of which is curved downwardly as indicated by the numeral 26 to prevent injury by its engagement with the vegetables to be removed from the ground. The upper side of the point 23 slants at an oblique angle with respect to the bottom of the shoe 22, while the rear end thereof is countersunk as at 27 for engagement with the forwardly extending projection of a lifting plate 29. The inner edge of the lifting plate 29 engages one side of the standard 21, while the outer edge thereof is curved downwardly, as at 30 to conform with the curved side of the lifting point 23. An angle bracket 31 is formed in one end with an aperture 32, through which a bolt is passed to secure said bracket to the plate 29. The bracket 31 is provided with another opening in its depending lateral extension which aligns with apertures formed in the standard and shoe respectively, thereby providing a means by which a bolt may be used to retain the said shoe standard and bracket rigidly

together. The bottom of the point 23 is extended slightly below the upper edge of the horizontal flange of the shoe 22 and lies in the same horizontal plane as the bottom thereof, while the terminal of the point 23 is curved slightly, as indicated by the numeral 33, from which it extends in a straight line in the same plane as the lifting plate 29, as will be readily apparent from an inspection of Fig. 1..

From the foregoing disclosures taken in connection with the accompanying drawings, it will be manifest that a plow for the purpose described is provided for which will fulfil all the necessary requirements of the device.

Having thus particularly described this invention, what we claim as new and desire to obtain by Letters Patent, is:

1. A plow comprising a plow beam, a bracket secured to said plow beam, a standard depending from the said bracket, an angular shoe secured to the standard, a shoe point secured to said shoe, said shoe point being recessed at its rear end, a lifting plate secured to the plow shoe within said

recess and a bracket connecting said lifting plate with the standard and plow shoe, as and for the purposes set forth.

2. The combination in a plow of the nature described, of a plow beam, a bracket secured to the lower side thereof, a forwardly slanting standard supported by the bracket, an angular plow shoe secured to said standard, a shoe point secured to the shoe, said shoe point extending at an oblique angle with respect to the shoe at one side thereof, and lying flush with the bottom of said shoe at its opposite side, a lifting plate secured to the shoe and provided with a downwardly curved edge conforming in shape to the edge of the shoe and a bracket secured to said lifting plate and to the shoe and standard, substantially as and for the purposes set forth.

In testimony whereof, we affix our signatures, in presence of two witnesses.

GEORGE FAIR.
MILTON D. FAIR.

Witnesses:

G. E. CAMPBELL.
S. S. ARNAT.