

(No Model.)

F. W. GILLESPIE.
BREAK PLOW.

No. 469,693.

Patented Mar. 1, 1892.

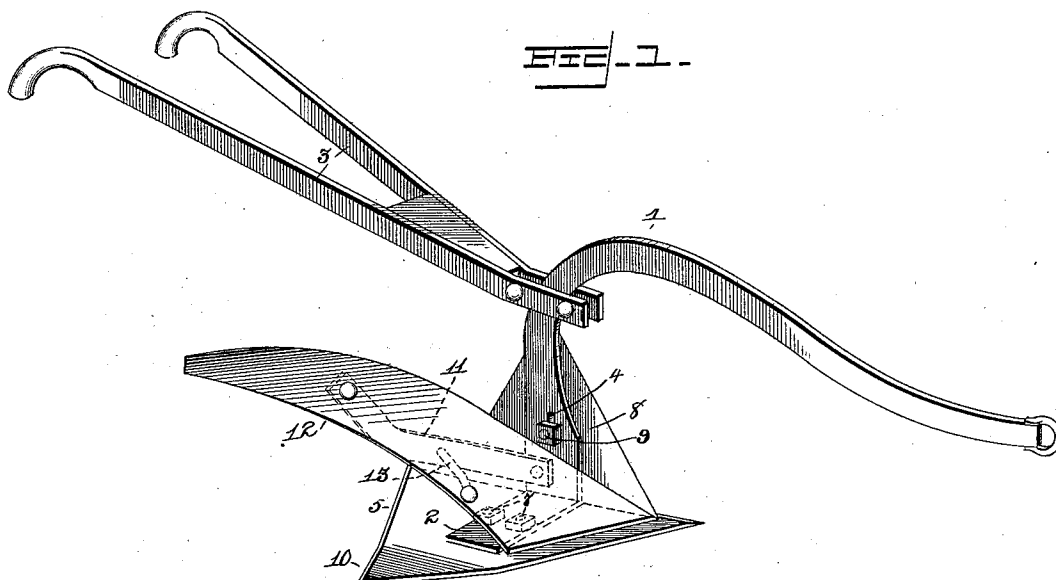
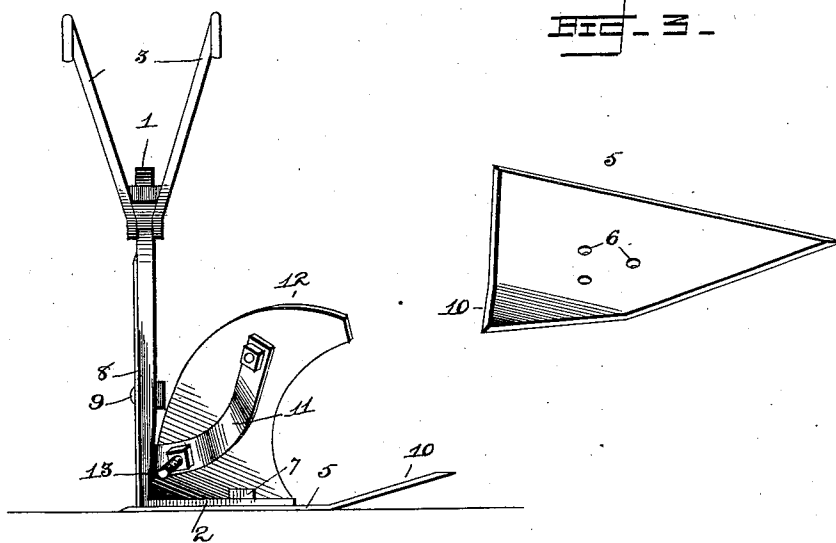


FIG. 2.



Witnesses:

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By his Attorneys,

Inventor

Frank W. Gillespie.

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UNITED STATES PATENT OFFICE.

FRANCIS W. GILLESPIE, OF BURRTON, KANSAS.

BREAK-PLOW.

SPECIFICATION forming part of Letters Patent No. 469,693, dated March 1, 1892.

Application filed September 21, 1891. Serial No. 406,356. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS W. GILLESPIE, a citizen of the United States, residing at Burrton, in the county of Harvey and State of Kansas, have invented a new and useful Break-Plow, of which the following is a specification.

This invention relates to improvements in break-plows; and the objects in view are to provide a plow of cheap and simple construction possessing great durability, the wearing parts of which are reversible, so as to bring new cutting-edges into play, and are adjustable, and withal to adapt the plow for successfully breaking land to run smoothly and easily.

Other objects and advantages of my invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a plow constructed in accordance with my invention. Fig. 2 is a rear elevation thereof. Fig. 3 is a detail in perspective of the shoe.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates an ordinary goose-neck plow-beam, the lower end of which is flattened and widened and bent at a right angle to form a lateral foot 2. Bolted to the beam is a suitable pair of handles 3, and immediately above the foot the neck of the beam is provided with a slot 4, while the foot itself is provided with a bolt-opening near both its front and rear edges.

5 designates the shoe, and the same is a triangular piece of steel, the free edges of which are sharpened or beveled to form cutting-edges. This shoe is provided with a pair of bolt-openings 6, and upwardly through the same bolts 7 are passed into and through the perforations of the foot of the plow, above which foot they are nutted, as shown. The three-bolt perforations in the shoe are arranged in a triangle agreeing with the angles of the shoe, so that, as will be obvious, any one of said angles may be brought to the front and any edge form the diagonal cutting-edge. In this manner the shoe when worn may be turned and time as well as material economized, in that I avoid the necessity of constant repointing of the shoe.

8 designates a triangular-shaped colter

formed of steel and having three cutting-edges, and when in position the base of the angle rests upon the inner edge of the shoe, the front cutting-edge of the colter being slightly in rear of the point of the shoe. A single bolt-opening through the colter permits of the passage of a bolt 9, which at its outer end extends through the slot in the beam, whereby the colter is vertically adjustable within the slot, and as it becomes smaller from wear can be lowered until its base rests upon the base of the shoe. The colter, it will be obvious, may be partially turned, so as to bring any one of its cutting-edges into operative position, and hence arise the same advantages as were described in connection with the shoe. The colter is perfectly flat or plain, while the shoe preferably has its rear outer angle slightly upturned, as at 10.

Bolted to the plow-beam near its hook is a rearwardly and outwardly disposed arm or brace 11, to the rear extremity of which is bolted a mold-board 12, braced at its lower end by a bolt 13, passing transversely through the mold-board and arm, while the lower end of the mold-board rests upon the shoe and reaches to a point near the lower end of the colter. If desired, rods may be substituted for the mold-board, the rods serving the same function, though breaking the clods more effectually in some soils.

A break-plow constructed in accordance with my invention will be found to run very smoothly and lightly and is very effective in operation, as it successfully turns the sod, weeds, &c., covering the same as the furrow is made. Aside from these advantages, others heretofore spoken of, such as its durability, by reason of the many cutting-edges that may be brought into play, as necessity occasioned by wear may dictate.

Having described my invention, what I claim is—

1. The combination, with the plow-standard terminating in a laterally-disposed foot, of a flat shoe bolted to the foot and having a series of cutting-edges, either of which may be brought into position, a mold-board mounted on the shoe, and a colter located at the opposite side of the standard, substantially as specified.

2. The combination, with the standard bent

to form the laterally-disposed foot, of the triangular reversible shoe secured to the foot, the mold-board mounted on the shoe and secured to the standard, and the triangular reversible colter secured to the opposite side of said standard, substantially as specified.

3. The combination, with the plow-beam terminating in a standard having a laterally-disposed foot provided with perforations, said standard having a vertical slot, of a triangular plow-shoe, the sides of which are beveled to form cutting-edges and near its center is provided with a series of three openings, bolts

passed through the openings of the shoe and foot, a triangular colter, a bolt passed through the slot of the standard and the colter, a mold-board mounted on the shoe, and an arm or brace bolted to the standard and supporting the mold-board, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRANCIS W. GILLESPIE.

Witnesses:

J. A. WELCH,

S. A. WOODWARD.