(No Model.)

J. W. BARNETT.

PLOW.

No. 345,099. Patented July 6, 1886.

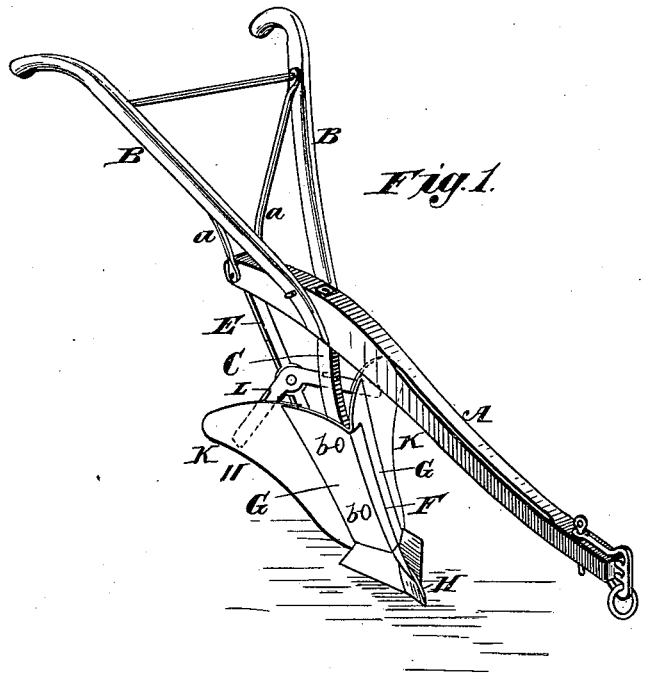


Fig. 1.

Fig. 2.

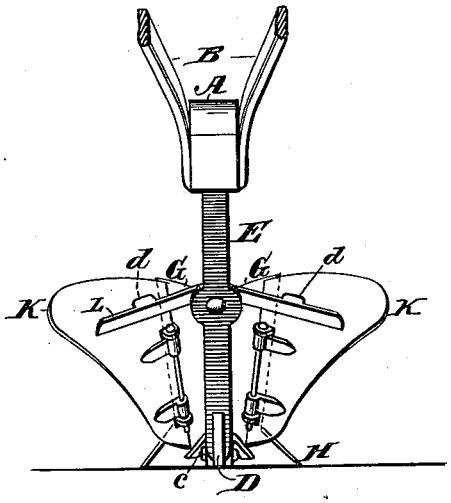
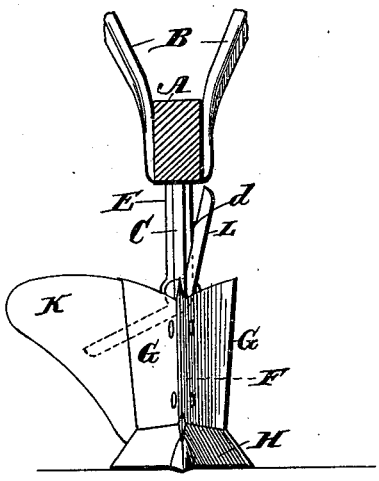


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN W. BARNETT, OF LEWISBURG, ASSIGNOR OF ONE-HALF TO MILTON G. NOWLIN, OF FARMINGTON, TENNESSEE.

PLOW.

SPECIFICATION forming part of Letters Patent No. 345,099, dated July 6, 1886.

Application filed October 3, 1885. Serial No. 178,940. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. BARNETT, a citizen of the United States, residing at Lewisburg, in the county of Marshall and State of Tennessee, have invented new and useful Improvements in Plows, of which the following is a specification.

This invention relates to that class of side-hill and turning plows in which the mold-boards are hinged in such a manner that either or both can be extended outward, as usual, or be folded inward to form a landside for the plow, as required in hillside plowing.

The invention consists in certain peculiarities in the construction and combination of parts in a plow, as will be hereinafter set forth.

In the annexed drawings, illustrating the invention, Figure 1 is a perspective view of my improved plow with both mold-boards spread out. Fig. 2 is a rear view, and Fig. 3 is a front sectional elevation with one mold-board turned in to form a landside.

Referring to the drawings, A is the beam, of any suitable construction. To this beam are attached the handles B B and the braces *a a*, by which said handles are steadied. Between the points of attachment of the handles B the beam A is slotted to receive the upper end of a wrought-metal standard, C, that may be secured by a bolt and nut or other convenient means. Attached to or formed on the lower end of the standard C is a horizontal bar or shoe, D, that extends backward a suitable distance. This bar or shoe is also composed of wrought metal, and is connected by a metal brace, E, to the rear end of the plow-beam.

In front of the standard C, and attached to or formed on said standard in any suitable manner, is what I term a "sod-cutter," F, which consists of a metallic bar or plate having a sharpened edge. This sod-cutter may be formed with wings G G, one on each side of the standard; or the wings G may be formed separate from the sod-cutter, and be attached to the standard C by bolts *b b*, or otherwise. I prefer, however, to make the sod-cutter F and its wings or flanges G G in one piece and secured to the standard by bolts *b b*, as above described. It will be observed that the wings or flanges G G are inclined back at a suitable angle, and together with the standard and sod-cutter form the main front of the plow.

The standard C, with its shoe D, the brace E, sod-cutter F, and wings G, are preferably composed of wrought metal, and together constitute a supporting-frame for the movable plow-point H and hinged mold-boards K K.

The plow-point H is detachably secured to the main front of the plow at its lower end by means of bolts or rods *c c*, that are passed through the standard and shoe. When the point H needs repairs or renewing, it can be readily removed by withdrawing said bolts.

The mold-boards K K are connected to the wings G G of the plow-front by means of loops or ears formed on the inner sides of said mold-boards and on the under sides of said wings, rods or pins being passed through said loops, so as to form a hinged connection; or the mold-boards may be hinged to the wings in any other convenient manner. The mold-boards are thus capable of being spread outward or turned inward at any angle required.

To the brace E is pivoted a two-armed stop, L, adapted to bear against the back of either mold-board, and so hold it in an extended position. This stop is provided with lugs or foot-rests *d d*, so that by pressing on either with the foot the corresponding end of the stop can be thrown against the inner side of the adjacent mold-board or be removed therefrom, as desired. These lugs *d*, by coming in contact with the sides of the brace E, also serve as stops to limit the rotation of the two-armed stop-bar L on its pivot.

It will be observed that the mold-boards K and wings G are made with suitable curvatures and concavities, so that when the mold-board is extended or spread outward for use in ordinary plowing it will readily clear itself from accumulations of soil, &c. It will also be seen that the wings G are so arranged as to overlap the upper edges of the mold-boards throughout their entire length, and so exclude dirt from the hinges.

By turning either mold-board inward against the shoe D it will form a landside for the plow, as required in hillside plowing.

It will be seen that my plow is a combina-

tion-plow for both hillside and level land, and is both a right and left hand plow, and as such the team turns at the end of the land on unbroken ground.

By arranging the two-armed stop L as shown in Figs. 1 and 2—that is, with its arms inclined downward—it will hold both mold-boards out at the same time, and when used for bedding cotton-land or for ditching, the dirt is thrown out on both sides at the same time. If a bull-tongue plow is needed, all that is necessary is to remove the mold-boards and turning-point and put on the well-known point that is made expressly for bull-tongue plows. By these changes it will be seen that it is a combination hillside or level-land plow, and in level land it can be used as a right or left hand plow, and by removing the boards it is a perfect bull-tongue plow, and can be also arranged so as to form a subsoil-plow.

I am aware that it is not new to provide a plow with a pair of hinged wings, either or both of which may be extended outward to serve as mold-boards or folded inward to form landsides, with means for holding them in either position. This, however, I do not claim, broadly.

What I claim as my invention is—

A plow composed of the beam A, the wrought-metal standard C, secured to said beam between the attaching ends of the handles, and having a shoe, D, connected by a brace, E, to the rear end of the beam, said standard, shoe, and brace forming a wrought-metal frame, the sod-cutter F and wings G G, secured to said standard, the removable plow-point H, bolted to the standard and shoe, the mold-boards K K, hinged to the under sides of the wings, and the stop L, pivoted to the brace, all combined as set forth.

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

JOHN W. BARNETT.

Witnesses:
A. B. EWING,
J. A. BRALY.