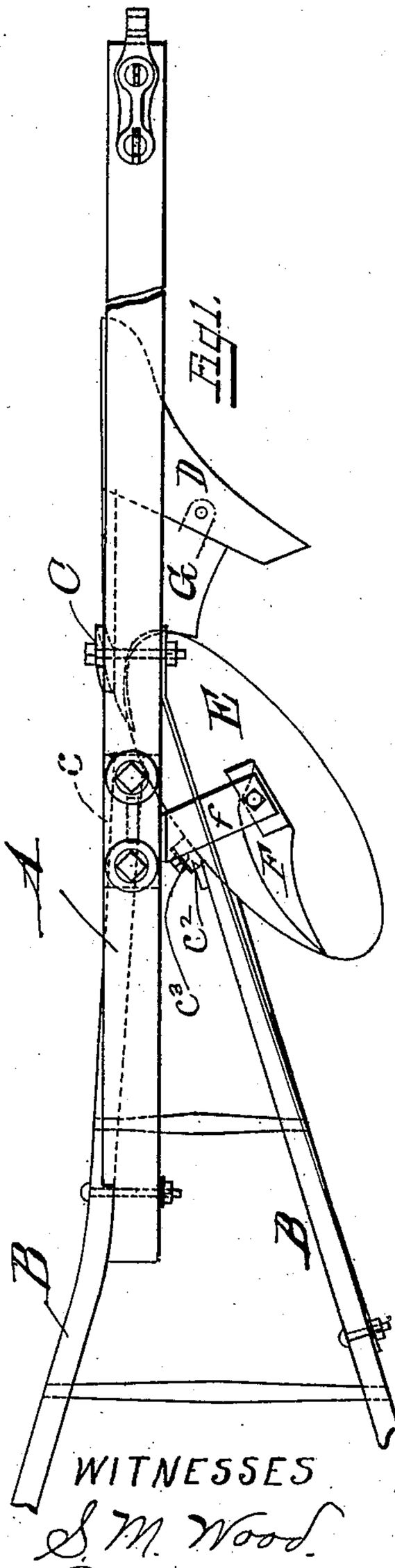
No. 723,423. PATENTED MAR. 24. 1903.

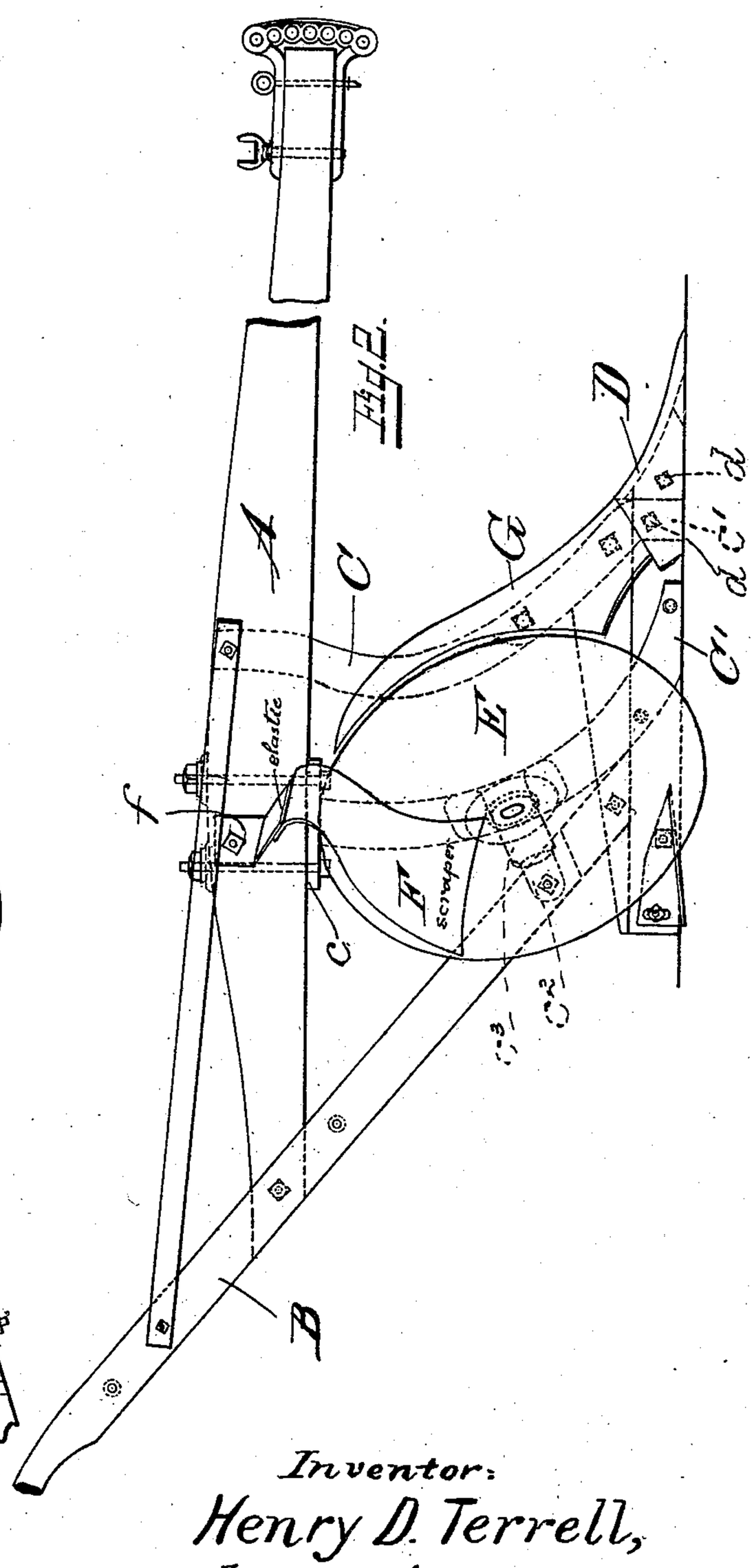
H. D. TERRELL.

PLOW.

APPLICATION FILED JULY 5, 1900.

NO MODEL. 2 SHEETS—SHEET 1.





WITNESSES

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NO MODEL. 2 SHEETS—SHEET 2.

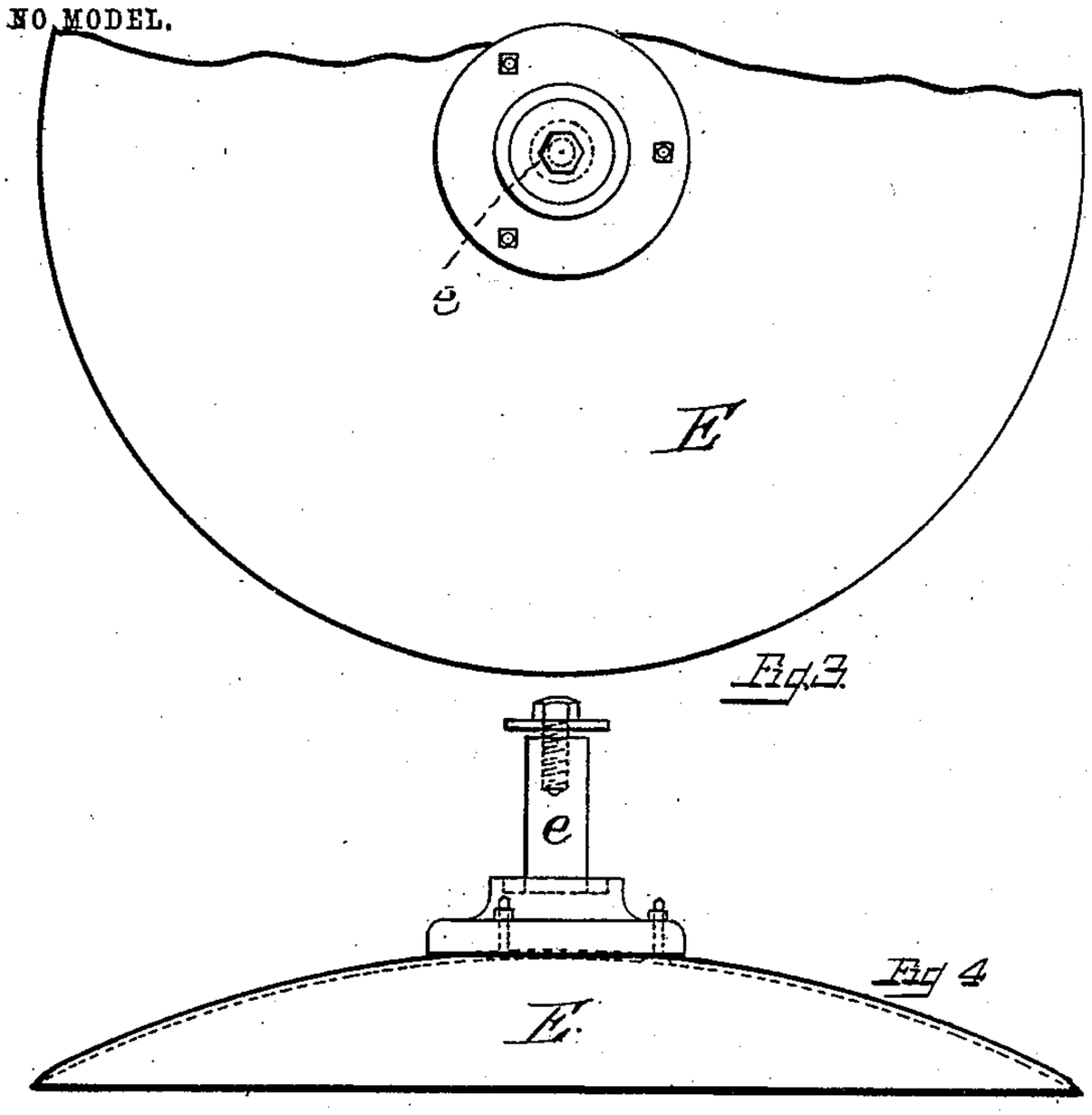

Fig. 3.

Fig. 4.

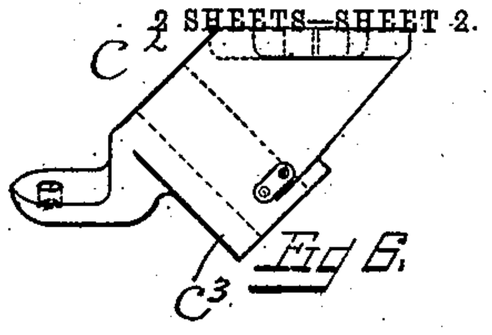

Fig. 6.

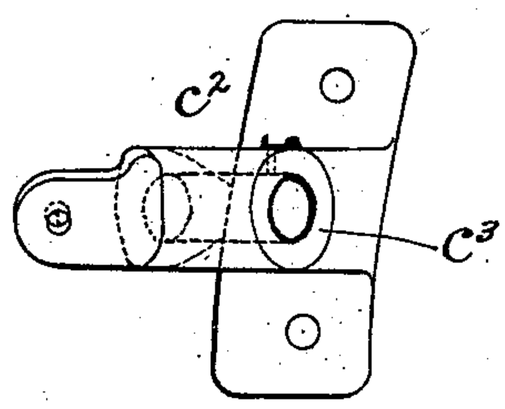

Fig. 5.

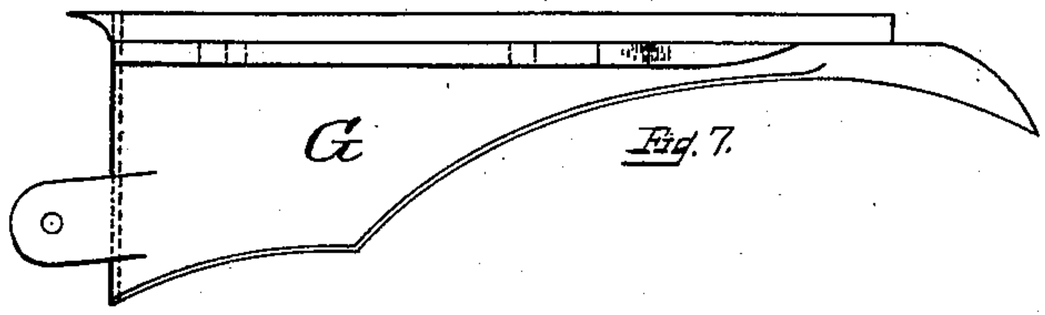

Fig. 7.

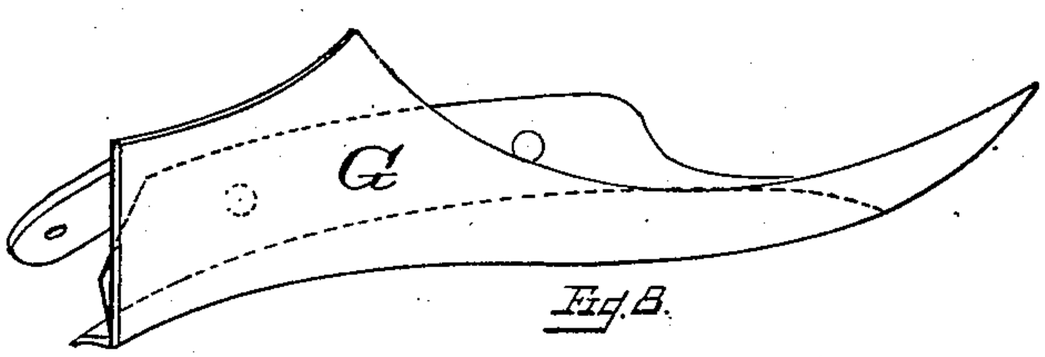

Fig. 8.

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HENRY D. TERRELL, OF ATLANTA, GEORGIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 723,423, dated March 24, 1903.

Application filed July 5, 1900. Serial No. 22,610. (No model.)

To all whom it may concern:

Be it known that I, HENRY D. TERRELL, a citizen of the United States of America, and a resident of Atlanta, in the county of Fulton and State of Georgia, have made a certain new and useful Plow; 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 letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in plows having therein the combination of a point or breaker with a disk, thereby combining the advantages of both, cutting a furrow which is square in the landside corner and in a manner peculiar to disk plows.

The invention further consists in the several improved details of construction hereinafter set forth.

The invention is shown in the accompanying drawings, in which—

Figure 1 is a plan of a plow with this invention in place. Fig. 2 is a side elevation of the device on a beam. Fig. 3 is a side view of the disk. Fig. 4 is a plan thereof. Fig. 5 is a detail in side elevation of the disk-mounting. Fig. 6 is a plan thereof. Fig. 7 is a rear elevation of the supplemental moldboard. Fig. 8 is a side elevation thereof.

In the figures like reference characters are uniformly employed in the designation of corresponding parts in all the views.

A is the beam, B the handles, both of which may be of any desired construction. The standards C and C′ are secured to the beam A, one in front of the other. The rear one, C′, consists of a main portion curved downwardly and forwardly and is provided at its upper end with the flange *c*, through which bolts pass and secure it to the beam. The front standard C is bolted to the side of the beam and is curved in like manner to the standard C′ and is provided on its lower end with a foot *c*′, (shown in dotted lines in Fig. 2,) to which the plow-point D is secured by the bolts *d*.

From about the vertical center of the standard C′ to the handle B contiguous is a block c^2, which projects laterally and backwardly at an angle from the standard and has a socket c^3, forming a bearing for the shaft *e* of the rotary disk E, as will be presently described—that is, the block is so extended on each side of said bearing c^3 for the disk as to bolt to the lower end of the right-hand handle B and to the standard C, which not only forms a reliable bearing for the disk, but braces the standard C, which is of great advantage, and the handle B, which is desirable.

The disk E is concaved, as shown in Figs. 3 and 4, and a spindle *e* is bolted or otherwise suitably secured to the back side thereof, said spindle *e* fitting within the bearing in the block c^2 and being provided with suitable means for preventing its withdrawal therefrom. This disk is rotatably mounted at about the same angle as the moldboard of a turn-plow and presents its edge to the front, as best shown in Fig. 1, at an acute angle to the line of draft. As shown, the disk E is mounted so that its lower edge is projected below the plane of the lower side of the point and landside—that is, below the cutting-point of the plow—whereby it projects into the hard and otherwise undisturbed ground and is caused to rotate steadily and forcibly, and the usual rotating gear is dispensed with.

G is a supplemental moldboard which is V-shaped in cross-section and curved, as shown in Figs. 2, 7, and 8, bolting onto the side of the standard C by one of its flanges and forming practically an upward continuation of the plow-point along the front of the standard C and conforming to and covering the edge of the disk, as shown in Fig. 2 clearly, its back surface being a little above or forward of the front surface of the disk and extending nearly to the top of said disk in height. An opening is left above the end of the point and outside the edge of this supplemental moldboard near the lower end thereof, so as to break the soil and allow it to fall back behind the opener-point and receive the effect of the disk.

The point or opener D is secured to the foot on the lower end of the standard, its back being substantially flush with the face of the disk E, so that the edge of the disk is protected from the soil, the point acting to break the ground and square the lower corner

of the furrow on the landside thereof, while the disk performs the functions of moldboard in superior manner. By squaring the corner of the furrow, as stated, the draft-animal may always walk on a level surface instead of a precarious footing, and the work done is thorough and of equal depth over the entire area instead of having a corrugated bottom, as usual in disk plows.

F is a scraper-blade, which is suspended over the face of the disk and in contact therewith by means of an arm *f*, secured to the beam A, as shown, the arm *f* being elastic and causing the said scraper to contact at all times with the face of the disk.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is--

1. In a plow, a beam, standards rigidly secured to said beam one in front of the other, a rotatable disk pivoted to the rear one of said standards, a point secured to the lower end of the front one of said standards, and a supplemental moldboard secured to the front one of said standards above said point and conforming to and covering said disk.

2. In a plow, a beam, a handle secured to said beam and extending below the same, standards rigidly secured to said beam one in front of the other, a block secured to the lower extension of said handle and to the rear one of said standards and provided with a bearing, a spindle journaled in said bearing, a disk carried by said spindle, a point secured to the lower end of the front one of said standards, and a supplemental moldboard secured to the front one of said standards above said point and conforming to and covering said disk.

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

HENRY D. TERRELL.

Witnesses:
A. P. WOOD,
S. M. WOOD.