

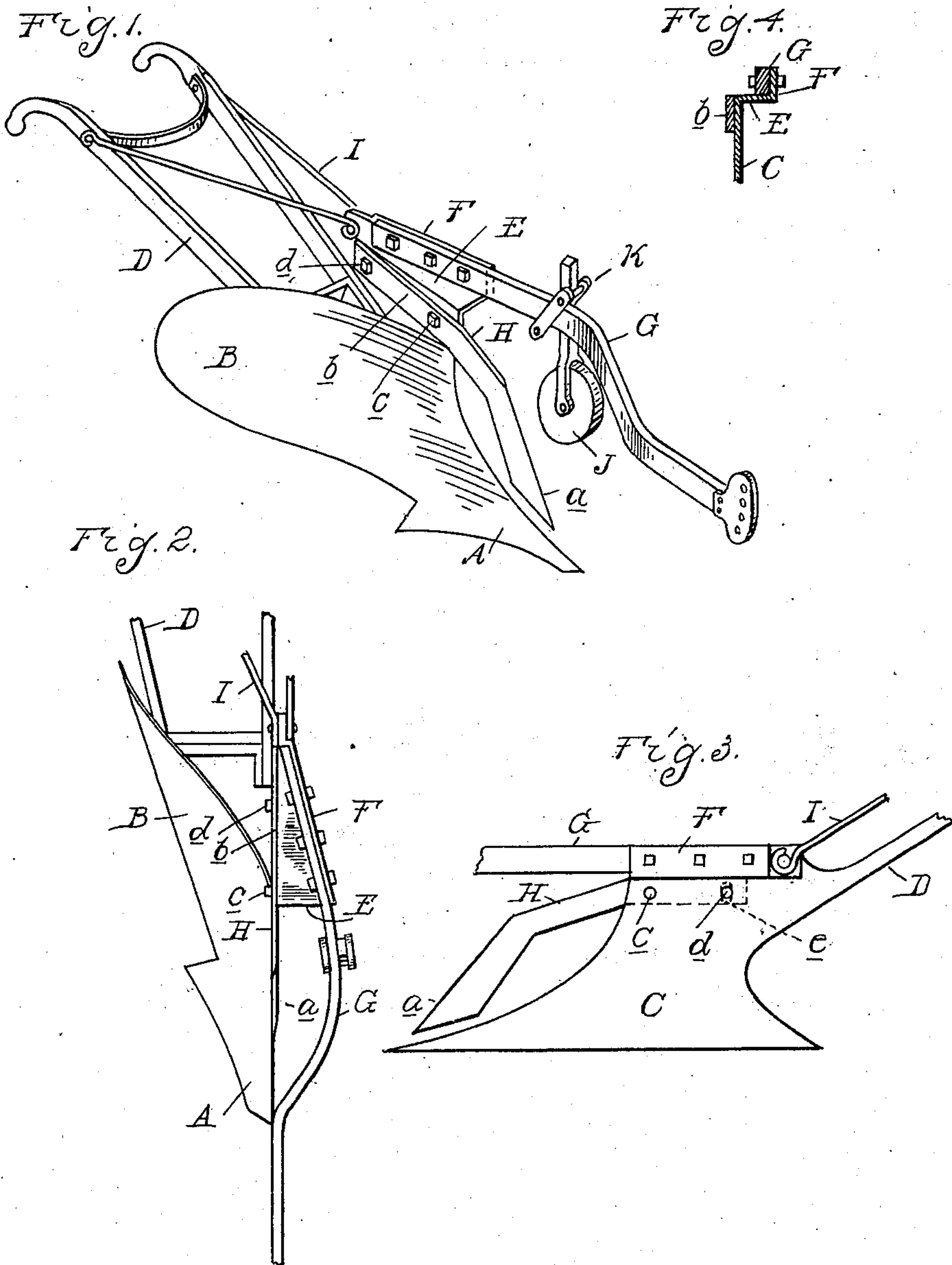
No. 694,079.

Patented Feb. 25, 1902.

J. A. ROSS.  
PLOW.

(Application filed Mar. 12, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

JAMES A. ROSS, OF ST. CLAIR, MICHIGAN.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 694,079, dated February 25, 1902.

Application filed March 12, 1901. Serial No. 50,788. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES A. ROSS, residing at St. Clair, in the county of St. Clair and State of Michigan, a citizen of the United States, have invented certain new and useful Improvements in Plows, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to improvements in plows; and it is the special object of the invention to obtain a construction which is adapted for use in heavy soil, freshly-matured fields, or in corn-stubble and the like. For such uses with the ordinary plow the straw and debris are apt to lodge between the colter and beam, so as to both clog the plow and to raise it out of the ground. With my construction I avoid these difficulties, first, by forming my plow with an offset beam adapted to clear the upper end of the moldboard, so as to permit any material that is not turned into the furrow to pass over said board; further, by providing a peculiar construction of colter—viz., one which is provided with a rearwardly-extending securing-shank attached to the landside of the plow instead of being secured to the beam, as in most constructions.

The invention therefore consists in the peculiar construction as above set forth and as will be hereinafter more fully described and claimed.

In the drawings, Figure 1 is a perspective view of my plow. Fig. 2 is a plan thereof. Fig. 3 is a side elevation looking at the landside of the plow, and Fig. 4 is a cross-section through the bracket to which the beam is secured.

A is the share; B, the moldboard; C, the landside of the plow, and D the handles. These parts may be of any desired construction and do not enter into my invention except as hereinafter set forth. At the upper end of the landside C, I preferably form an offset E, and extending upwardly from this offset is a flange F, arranged at an incline to the plane of the landside.

G is a beam, which, as shown, is of a curved form, being secured at its rear end to the flange F by bolts or other suitable securing means and extending forward therefrom at

one side of the plane of the landside. The forward end of the beam is bent inwardly, so as to bring the point of draft substantially in line with the share and landside.

With the construction as thus far set forth it will be obvious that any material caught upon the share and which is not turned into the furrow will be free to pass upward and over the moldboard without being caught by the beam, which is laterally offset to form a clear passage.

The plow is also preferably provided with a colter H. This comprises a cutting-blade *a*, which may be extended down into proximity to the share and which at its upper end is provided with a rearwardly-extending shank *b*. This shank, as shown, is secured to the furrow-side of the landside C by means of bolts *c* and *d*. In order to secure an adjustment for the blade *a*, the rear bolt *d* passes through a slot, as indicated in dotted lines at *e*, Fig. 3. Thus by loosening the bolt *d* the shank *b* may be tilted to either raise or depress the blade *a*. It is to be noticed that the blade *a* inclines rearward from its cutting-point to the point of attachment to the plow, and thus a free path is formed for any material which is not cut by the blade to pass over the moldboard. Inasmuch, however, as the material passing over the shank of the colter comes into the path of the furrow in turning, the greater portion will be drawn off from said shank and turned in with the earth.

The required rigidity is secured for the frame by connecting the handles D to the rear end of the flange F by braces, such as I. If desired, the plow may also be provided with a ground-wheel, such as J, which may be secured to the beam in any suitable manner, such as by the clip K. This wheel being secured to the offset portion of the beam acts as a support for holding the plow in proper position and prevents any tendency to turn.

What I claim as my invention is—

1. In a plow, the combination of a landside having an integral laterally-offset portion and a beam secured to said offset portion, the forward end of said beam returning into the plane of the main portion of said landside.

2. In a plow, the combination of a landside having a laterally-extending portion at its up-

per end, a vertical flange upon said laterally-  
extending portion arranged at an angle to the  
plane of said landside and a beam secured to  
said flange and bent to return at its forward  
5 end into the plane of said landside.

3. In a plow, the combination of a landside,  
a beam secured thereto having a portion there-  
of laterally offset and its forward end return-  
g into the plane of said landside, and a

ground-wheel secured to said offset portion 10  
of the beam.

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

JAMES A. ROSS.

Witnesses:

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