M. W. LANE.

Improvement in Plows.

No. 127,613. Patented June 4, 1872.

FIG. I.

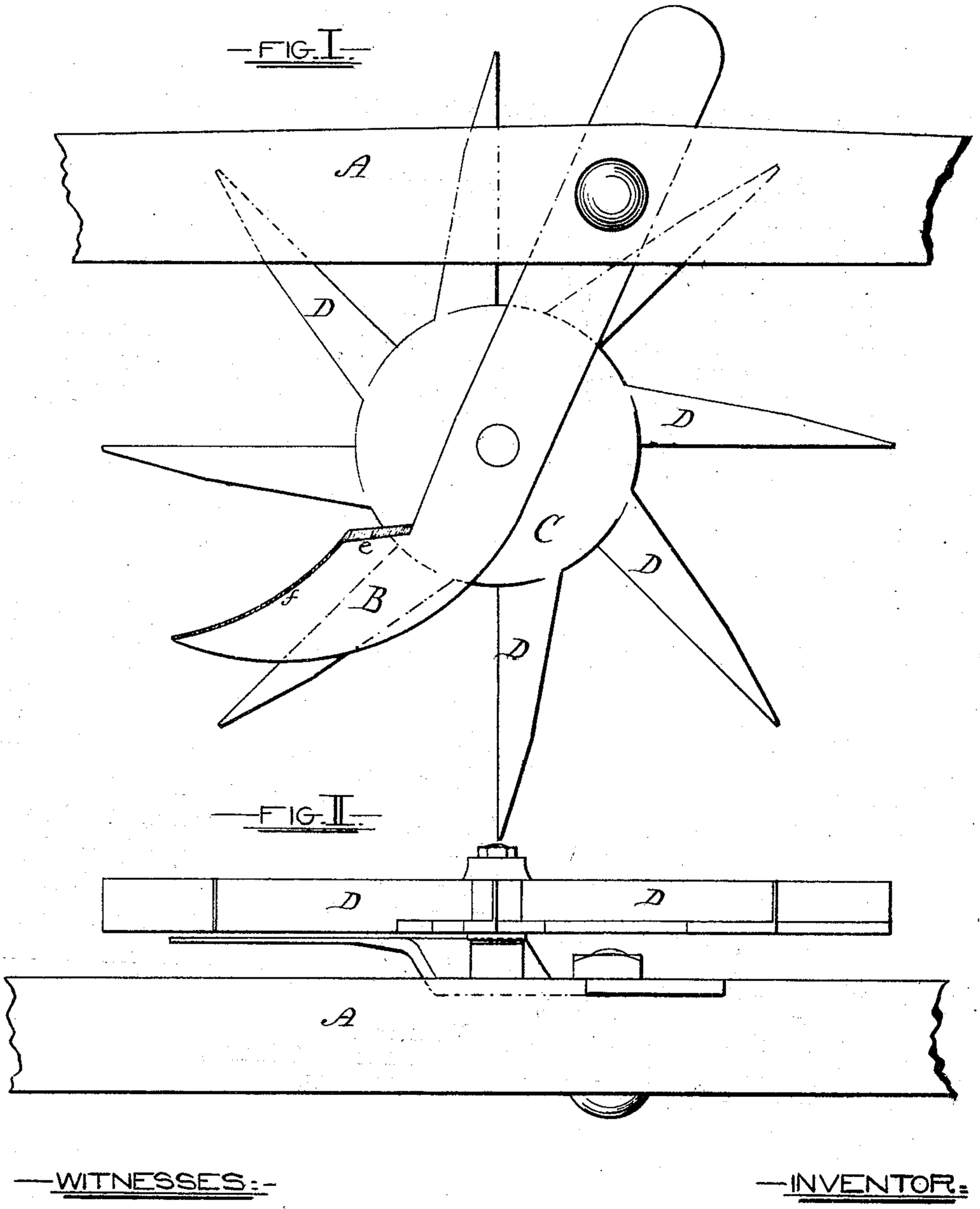

FIG. II.

WITNESSES:-

Geo. H. Howard.

J. C. Robbins

INVENTOR:

Madison W. Lane

By his attorney

Jno. Dell

127,613

UNITED STATES PATENT OFFICE.

MADISON W. LANE, OF HILLSBOROUGH, OHIO, ASSIGNOR OF TWO-THIRDS OF HIS RIGHT TO WM. DILL AND WM. DILL, JR., OF SAME PLACE.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 127,613, dated June 4, 1872.

To all whom it may concern:

Be it known that I, MADISON W. LANE, of Hillsborough, in the county of Highland and State of Ohio, have invented a new Manufacture in the shape of an Improved Cutting Attachment to the Beams of Plows; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing which forms a portion of this specification—

Figure 1 being a side view of said attachment when combined with a plow-beam, and Fig. 2 an edge view of said invention.

In the drawing, A is the plow-beam. B is a cutting-blade, which terminates in a shank, of such length that when it is combined with a plow-beam the point of its cutting-edge can be made to penetrate to any desired depth into the surface of the ground. D D are a series of cutting-arms radiating from a central body that is pivoted to the shank of the cutting-blade B. C is an annular plate that serves to connect the series of radiating cutters D at the inner terminus of their respective cutting-edges. The shank of the cutting-blade B must be strongly connected with a plow-beam, and this may be effected in any suitable manner.

In adjusting and securing my improved cutting attachment to a plow-beam care must be taken to locate it in such a position that the rotating cutting-arms D will enter the ground a sufficient depth to cause the forward movement of the plow to impart a rotary movement to said series of cutting-arms.

The cutting-edge of the blade B is divided by an angle into two parts, *e* and *f*. The shorter cutting-edge *e* acts in conjunction with the sharp angle of the annular plate C, and the longer cutting-edge *f* of said blade acts in conjunction with the sharp angles of each of the cutting-arms D; and, consequently, as the plow is drawn forward, all the corn-stalks and other refuse fibrous substances on the field, that would otherwise obstruct and prevent the proper performance of the plow, will be cut into short pieces and buried beneath the furrows. The combined action of the annular plate C and the series of cutting-arms D D on the cutting-blade B will prevent the possibility of the clogging of said cutters, which might otherwise occur if the said annular plate should be left out of the combination.

I do not intend to limit myself to any precise shape or proportions of the respective parts of my improved cutting attachment to plow-beams, as the same may be somewhat varied without departing from the principle of construction and performance herein particularly set forth.

I claim as my invention—

The stalk-and-stubble cutting attachment to plow-beams, said attachment consisting of the cutting-blade B, the annular plate C, and the radial cutting-arms D D combined with each other, substantially as and for the purpose herein set forth.

MADISON WM. LANE.

Witnesses:
CHAS. M. O'HARA,
JNO. DILL.