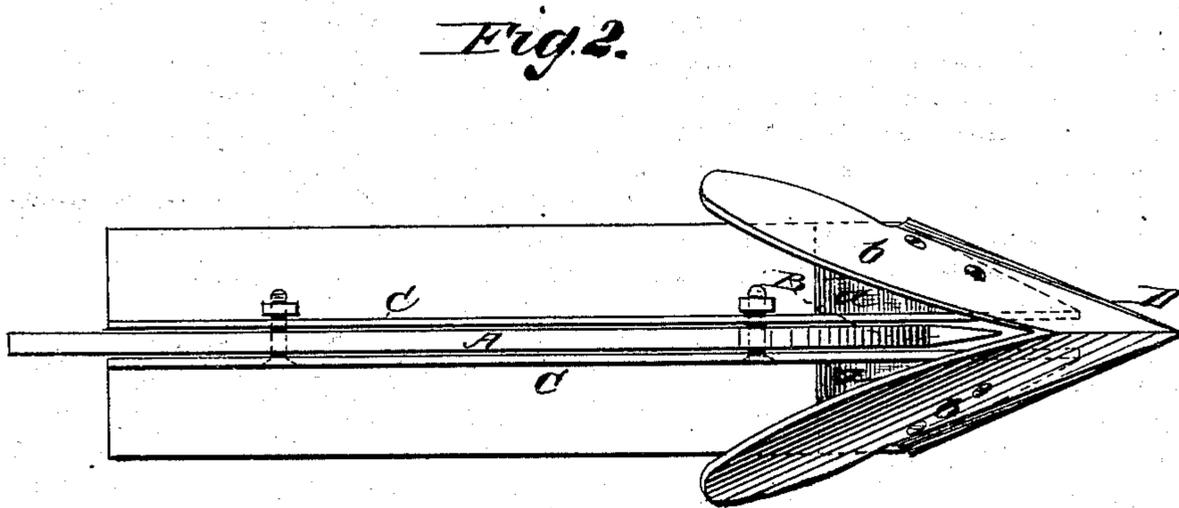
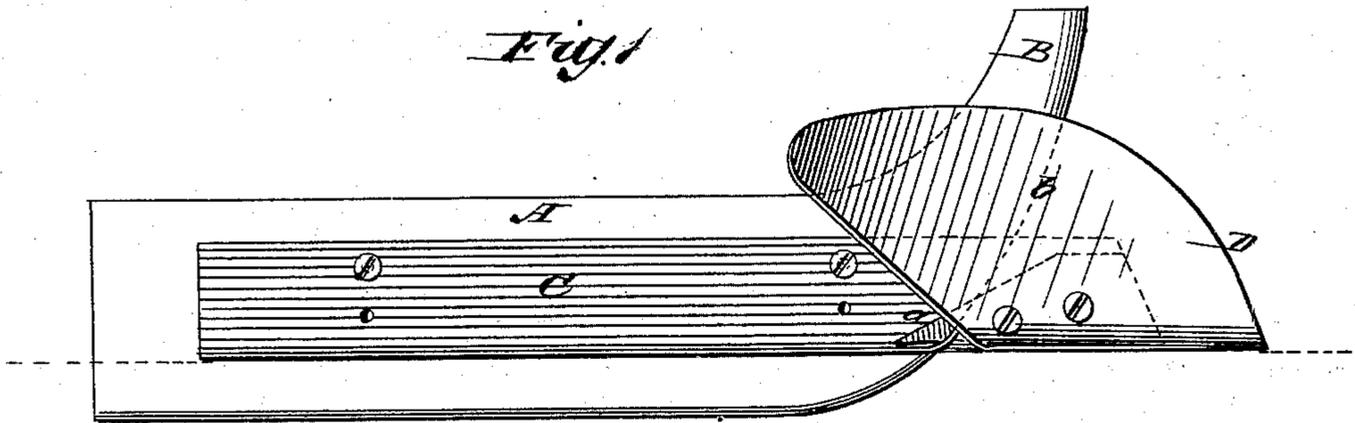


G. S. RAREY.
Runner for Corn-Planter.

No. 219,518.

Patented Sept. 9, 1879.



WITNESSES:
Francis McArthur.
C. Sedgwick

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UNITED STATES PATENT OFFICE.

GAMALIEL S. RAREY, OF GROVEPORT, OHIO.

IMPROVEMENT IN RUNNERS FOR CORN-PLANTERS.

Specification forming part of Letters Patent No. **219,518**, dated September 9, 1879; application filed July 29, 1879.

To all whom it may concern:

Be it known that I, GAMALIEL S. RAREY, of Groveport, in the county of Franklin and State of Ohio, have invented a new and Improved Runner for Corn-Planters, of which the following is a specification.

The object of this invention is to enable the runner to clear away obstructions ahead of the planter, and to level the ground so that the grain will be planted at a uniform depth.

It consists in providing the runners with V-shaped points, which connect with gages attached to the runners on either side, and regulate the depth to which the runners extend, while the points throw the obstructions aside and level off the ground.

In the accompanying drawings, Figure 1 is a side elevation of my improved runner, and Fig. 2 is a top plan or view of the same.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A is the runner, provided with an upturned front end, B, in the usual manner. On either side of the straight portion of the runner is fixed a gage, C, composed of a right-angular plate with one side applied to the runner, and secured by lateral bolts or set-screws, so that the position of the projecting portion of the gage may be adjusted, and thus a greater or less portion of the runner be allowed to project below the gage. The front ends of the projecting parts

of these gages are turned up to form a V-shaped point against blocks *a*, and to the point thus formed are attached wings *b b*, forming thus a V-shaped point, D, to the upturned end of the runner, the bottom whereof is on a level with the gages, as shown in Fig. 1.

The point D being connected with the gages, when these are raised or lowered on the runner, the point is moved at the same time, and thus their relative positions are maintained.

When the machine with runners thus formed is in operation, the points D throw the clods and other obstructions to the sides out of the way of the seed-conductors, and level off the ground, and the gages C limit the depth of the marking for the grain, so that it is all planted at one uniform depth.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

As an improvement in runners for corn-planters, the gages C C, forming a V-shaped point, and the point D, composed of two wings, *b b*, attached to the gages through blocks *a a*, in combination with the runner, for the purpose of clearing away obstructions and regulating the depth to which the runner enters the ground, substantially as described.

GAMALIEL SOLMON RAREY.

Witnesses:

GEO. ADEL,
EDMUND GARES.