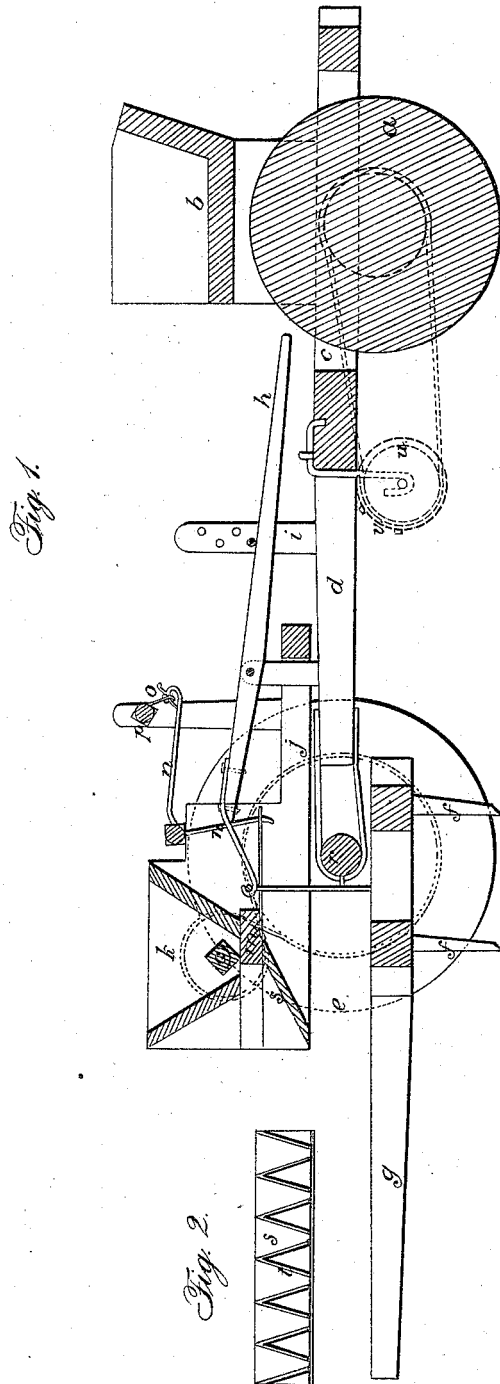


D. HILL.
Corn-Planter.

No. 11,159.

Patented June 27, 1854.



UNITED STATES PATENT OFFICE.

DANIEL HILL, OF BARTONIA, INDIANA.

IMPROVED SEED-PLANTER.

Specification forming part of Letters Patent No. **11,159**, dated June 27, 1854.

To all whom it may concern:

Be it known that I, DANIEL HILL, of Barton, Randolph county, Indiana, have invented a new and Improved Combination of Seeding Apparatus, Harrow, and Roller; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification.

The object of my invention is the proper distribution of the seed.

Figure 1 is a longitudinal section. Fig. 2 represents the drill-planting face of the reversible directing-board.

The roller *a*, driver's seat *b*, rear hounds, *c*, coupling-pole *d*, wheels *e*, suspended and adjustable harrow *f*, draft-pole *g*, treadle *h*, and gage-post *i* are similar to those described in my patent of October 11, 1853, for improvement in the attachment of a harrow to a land-roller.

A frame of timber, *j*, analogous to and occupying the position of the fore hounds of a carriage, gives support to a seed hopper or box, *k*, constructed with the usual arrangement of a pair of boards converging together in such a manner as to leave a narrow aperture between their lower edges.

m is a mouth-piece or gage-board, made capable of sliding horizontally back and fro, and adjusted by means of a set of levers, *n*, actuated by a cord, *o*, and winch or windlass *p*.

q is a square or fluted or otherwise prismatic bar, which is placed near the lower narrow opening between the boards, and in such proximity to them and to the gage-board as to transmit the desired amount of grain to the aperture. This bar is caused to rotate in direction of the arrow by means of a band, (see dotted

lines,) connecting to a sheave or pulley on the wheel-shaft *r*.

s is a board placed immediately below the aperture of the seed-box, and projecting forward and downward in a sloping position, so as to suitably direct and distribute the seed on its way to the ground. One side of this board is perfectly plain. The other side is furnished with strips or ridges *t*, which, converging, as represented, toward the lower edge of the board, conduct the grain into lines at such distance apart as may be desired for the particular drill aimed at. By means of this simple device the machine may be instantly adapted to either drill or broadcast sowing.

For grass-seed I have a hollow cylinder, *u*, perforated with numerous apertures and suspended immediately in front of the roller *a*. The shaft of this cylinder carries a pulley, (see dotted lines,) communicating by band with another on the roller-shaft, for the rotation of the cylinder.

The rate of sowing of the cylinder may be varied by a change in the proportionate size of the sheaves or pulleys.

v is a door through which the cylinder is filled.

I claim as new herein and desire to secure by Letters Patent—

The reversible directing-board, plain on one side and furnished with converging slats or ridges on the reverse side, for the purposes of either drill or broadcast sowing.

In testimony whereof I hereunto set my hand before two subscribing witnesses.

DANIEL HILL.

Witnesses:

GEO. H. KNIGHT,

J. H. GETZENDANNER.