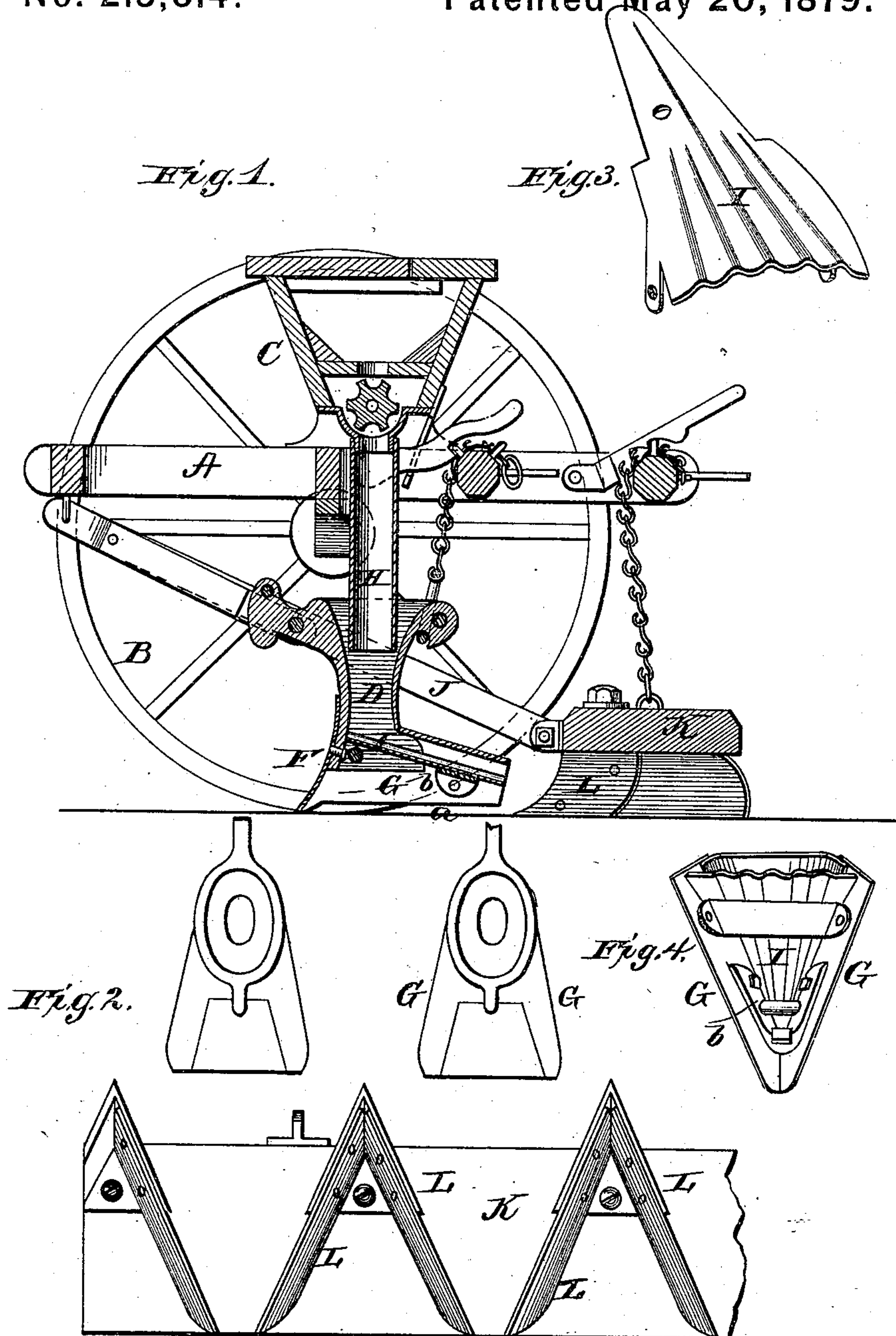


J. M. & S. B. HEIGES.
Seed-Planter.

No. 215,614.

Patented May 20, 1879.



WITNESSES
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JOHN M. HEIGES AND SAMUEL B. HEIGES, OF YORK, PENNSYLVANIA.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **215,614**, dated May 20, 1879; application filed March 17, 1879.

To all whom it may concern:

Be it known that we, JOHN M. HEIGES and SAMUEL B. HEIGES, of York, in the county of York, and in the State of Pennsylvania, have invented certain new and useful Improvements in Seed-Planters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a seed-planter, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a transverse vertical section of a seed-planter embodying our invention. Fig. 2 is a bottom view, showing the relative position of the boots with seed-distributor and the coverers. Fig. 3 is a perspective view of the seed-distributor. Fig. 4 is a perspective view from the under side of the boot with seed-distributor.

A represents the frame of a seed-planter, mounted upon wheels B B, and provided with seed-box C and a seeding mechanism of any suitable or desired construction.

D represents a cast-iron boot, provided with a steel reversible point, F, and a right-handed and a left-handed mold-board (marked G G) attached to said boot. The mold-boards are formed with straight lower edges, *a a*, for the purpose of scoring the ground to a uniform depth and level surface, set at an angle with the point F, so as to score to any desired width.

The mold-boards G G are united at their upper edges by a concave top, *b*, for the purpose of protecting the seed-distributor I from the ground thrown up by the scorer.

The seed-distributor I occupies the entire space between the mold-boards, and is placed at such an inclination within the same as to freely carry the seed from the tube H or other device attached to the seeder. This seed-distributor consists of a metal plate, cast or swaged, convex in its general surface, having five (more or less) grooves radiating from the point upon which the seed is delivered from the tube to the entire width included between the mold-boards at the rear.

The coverer is connected to the frame A of the seeder by two or more bars, J J, consisting of a plank or frame, K, the length of which is the entire width; and to this plank are, by means of bolts, attached a series of right and left handed mold-boards, L, forming triangles, and so arranged as to follow the seeder and cover the grain, leveling the surface at the same operation.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the boot D, reversible point F, mold-boards G, having lower straight edges, *a*, and the corrugated distributor I, all constructed and arranged to operate substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 21st day of February, 1879.

JOHN M. HEIGES.
SAMUEL B. HEIGES.

Witnesses:

W. H. SITLER,
GEORGE DARON.