

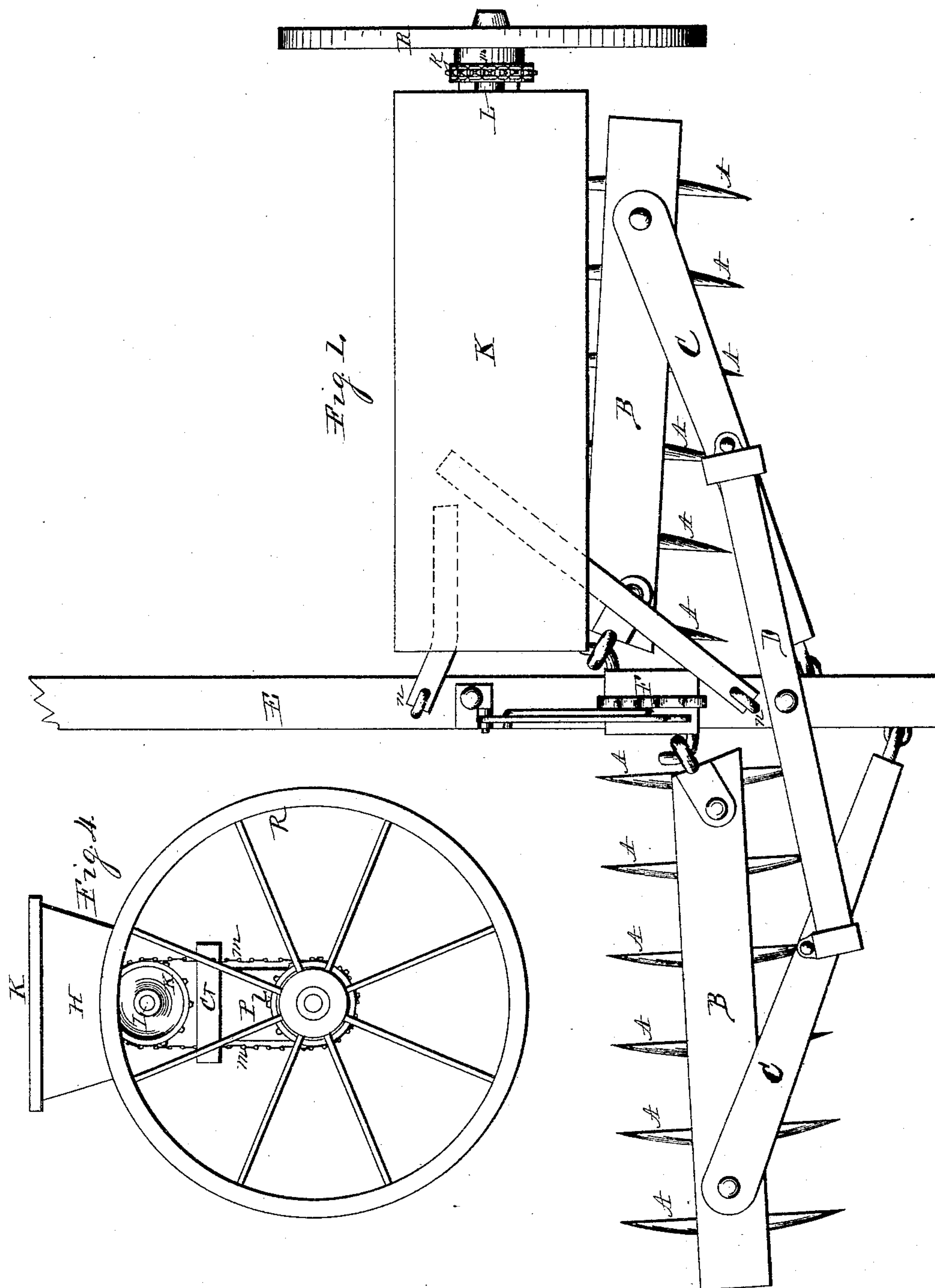
(No Model.)

2 Sheets—Sheet 1.

J. H. JONES.
SEEDING MACHINE.

No. 327,950.

Patented Oct. 6, 1885



Witnesses.
C. F. Briggs
A. O. Bennett

Inventor.
James Henry Jones.
Per Jacob B. Schell
Att'y

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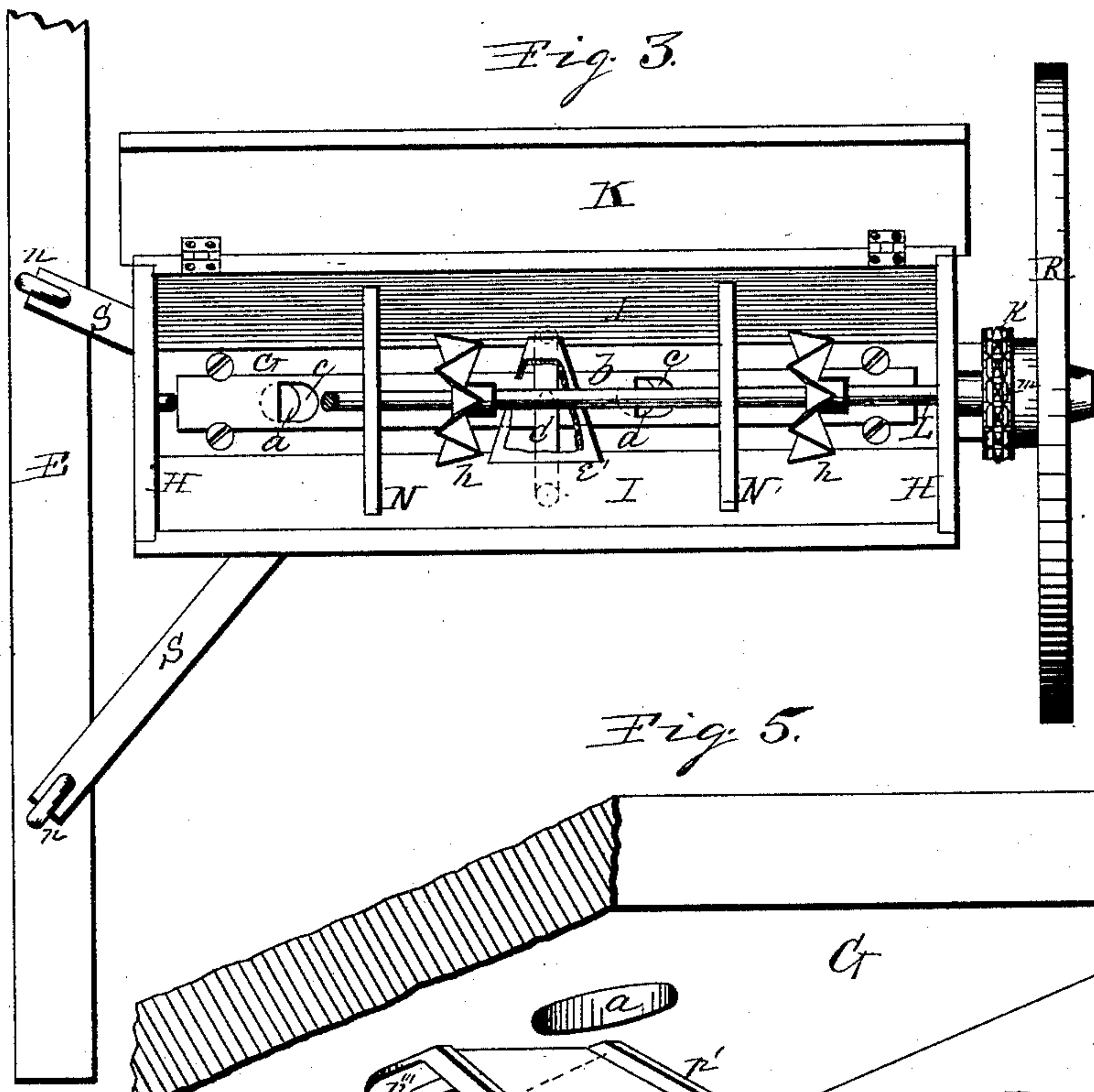
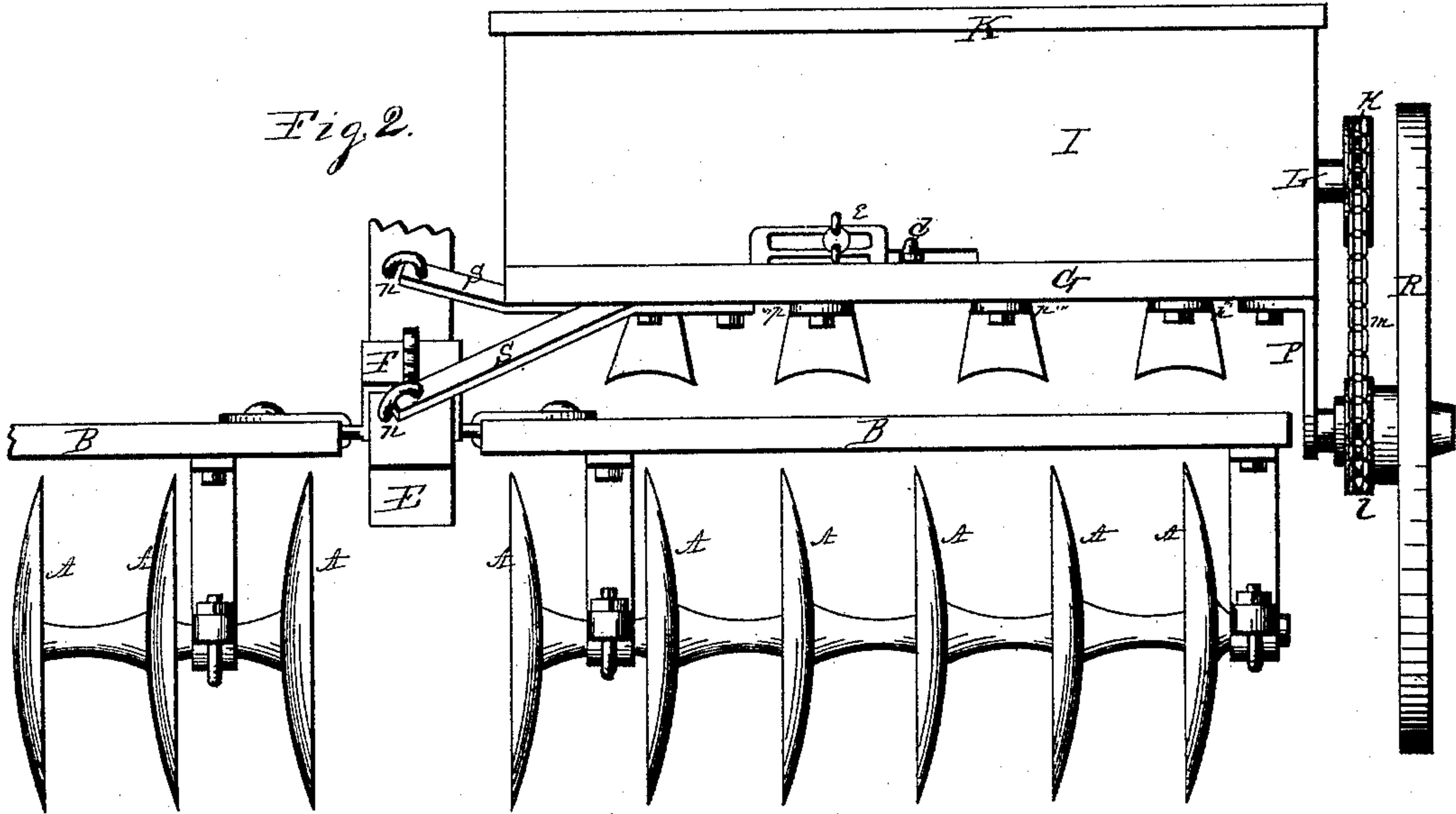
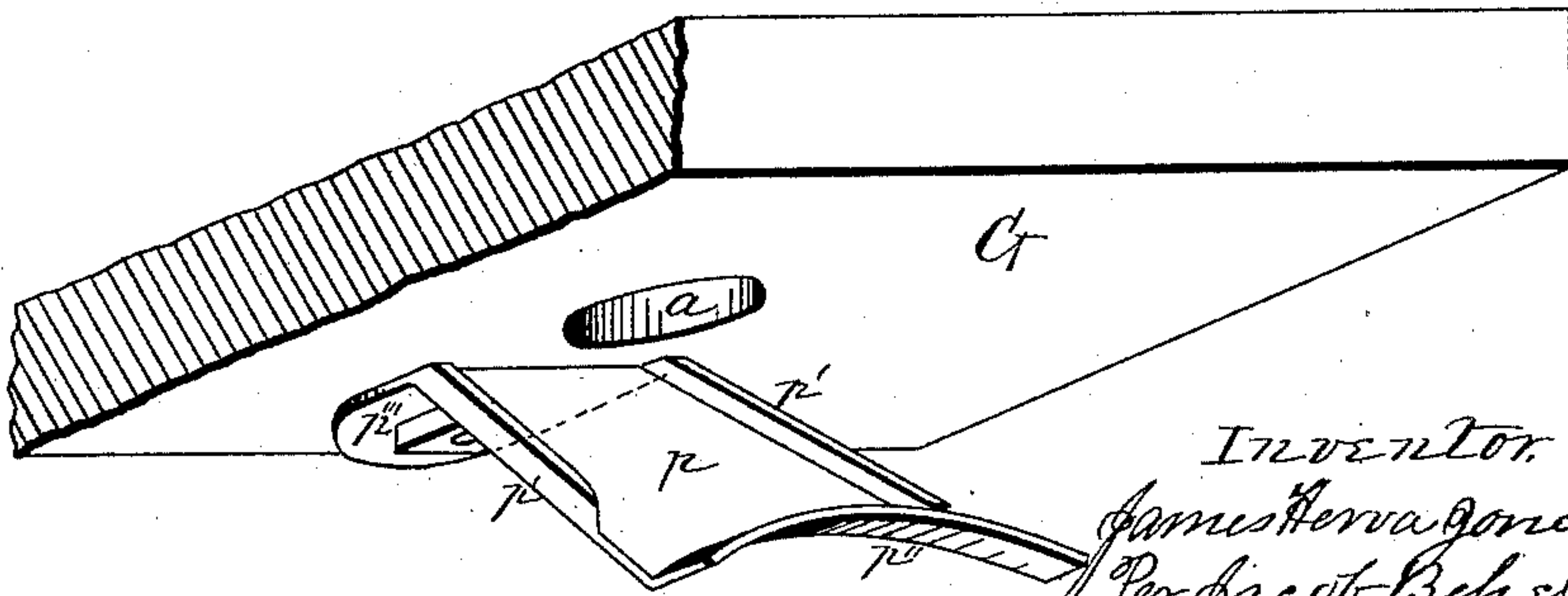


Fig. 5.



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UNITED STATES PATENT OFFICE.

JAMES HERVA JONES, OF ROCKFORD, ILLINOIS, ASSIGNOR TO EMERSON,
TALCOTT & CO., OF SAME PLACE.

SEEDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 327,950, dated October 6, 1885.

Application filed May 13, 1885. Serial No. 165,397. (No model.)

To all whom it may concern:

Be it known that I, JAMES HERVA JONES, a citizen of the United States, residing in the city of Rockford, in the county of Winnebago and State of Illinois, have invented new and useful Improvements in Seeding-Machines, of which the following is a specification.

This invention relates to a class of seeding-machines known as the "broadcast seeder." Its object is to combine a seeding mechanism with a disk-harrow to produce a broadcast seeding-machine, in such a manner that the seeding mechanism may be readily detached to permit the independent use of the harrow. To this end I have designed and constructed the seeding-machine represented in the accompanying drawings, and have connected it with the disk-harrow therein represented in a detachable manner. In the drawings, Figure 1 is a plan view of an apparatus embodying my invention. Fig. 2 is a rear elevation. Fig. 3 is a plan view of the seeding mechanism. Fig. 4 is an end view of the seeder mechanism, and Fig. 5 is an isometrical representation of the seed-scatterer in its connection with the under side of the seed-box.

The disk-harrow shown in the drawings, consisting in the main of the disks A, their supporting-frames B, braces C and D, the tongue E, and the hinged connection of the disk-frames with the tongue, the operating mechanism F, supported upon the tongue, and the hinged connection of the disk-frames therewith, are substantially the same as disk-harrows heretofore in use, and to be found in the trade.

The seed-box, composed of a bottom, G, ends H, sides I, and hinged lid K, suitably joined, is of the usual hopper form, and its bottom is provided at proper intervals with seed-outlet openings *a*. In this seed-box is contained a seeding mechanism consisting of a seed-slide, *b*, having seed-openings *c*, a lever, *d*, and an adjustable stop, *e*. A cap, *e'*, is placed within the seed-box to cover the lever. A shaft, L, is placed centrally lengthwise in the seed-box to revolve in bearings in ends H and division-walls N, and is provided with agitator-wheels *h* over each seed-outlet opening.

A sprocket-wheel, *k*, is mounted upon the

projecting end of the shaft L, and is designed to receive a chain belt.

A bracket axle-arm, P, is fixed to the outer end of the seed-box, and on its axle-arm is mounted a carrying-wheel, R, to revolve thereon.

A sprocket-wheel, *l*, is fixed on the inner end of the hub of the carrying-wheel in the same vertical plane of the sprocket-wheel on the shaft N, and a chain belt, *m*, connects the sprocket-wheels, so that the rotating movement of the carrying-wheel will be imparted to the shaft supported in the seed-box and to the agitator-wheels mounted thereon, to stir the seed and cause it to pass through the outlet-openings.

Brace-bars S are fixed to the under face of the inner end of the seed-box, and their diverging ends extend outward, and are detachably pivoted at *n* to the tongue to support the seed-box substantially at a right angle thereto.

Seed-scatterers substantially as shown, consisting of an inclined seed-receiving plate, *p*, with side edge flanges, *p'*, and an end flange, *p''*, rising from its seed-receiving surface, are pivotally fixed in place on the under face of the seed-box near the seed-openings by means of a pivot-bolt passed through its foot-flange *p'''*. The position of the scatterers relatively with the seed-outlet openings is such as to receive the seed discharged through the openings on their inclined surfaces, and by reason of their adjustability their inclined receiving-surface may be adjusted to deliver the seed properly relatively with the adjusted position of the disk of the harrow, or in any manner within their capacity to meet the wishes of the user.

In the use of the machine its forward movement will cause the carrying-wheel of the seeding mechanism to rotate and impart a rotary movement to the agitator-wheels by means of its chain-belt connection therewith, and cause a discharge of the seed through the seed-openings, which will descend to the scatterers and thence to the ground, properly distributed in front of the disks of the harrow.

I claim as my invention—

1. The combination, with a disk-harrow, of a seeding apparatus, substantially as herein described, said seeding apparatus hinge-joint-

ed at its inner end to the harrow-frame and its outer end supported on a carrying-wheel, substantially as and for the purpose set forth.

2. The combination, with a seed-box provided with a seed-opening, of a seed scatterer consisting of an inclined seed-receiving plate provided with a side edge flange, a curved horizontal end flange or plate at its lower end, a securing flange or plate at its upper end, and means, substantially as described, for connecting said scatterer with the under side of the

seed-box to permit its adjustment in a horizontal plane, substantially as set forth.

3. The combination, with the rotary disks of the harrow and with the seed-outlet openings, of scatterers made adjustable in their connection with the seeding mechanism, substantially as and for the purpose set forth.

JAMES HERVA JONES.

Witnesses:

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A. O. BEHEL.