

(No Model.)

A. N. NORRIS & H. D. SPANGLER.

SEEDING MACHINE.

No. 294,328.

Patented Feb. 26, 1884.

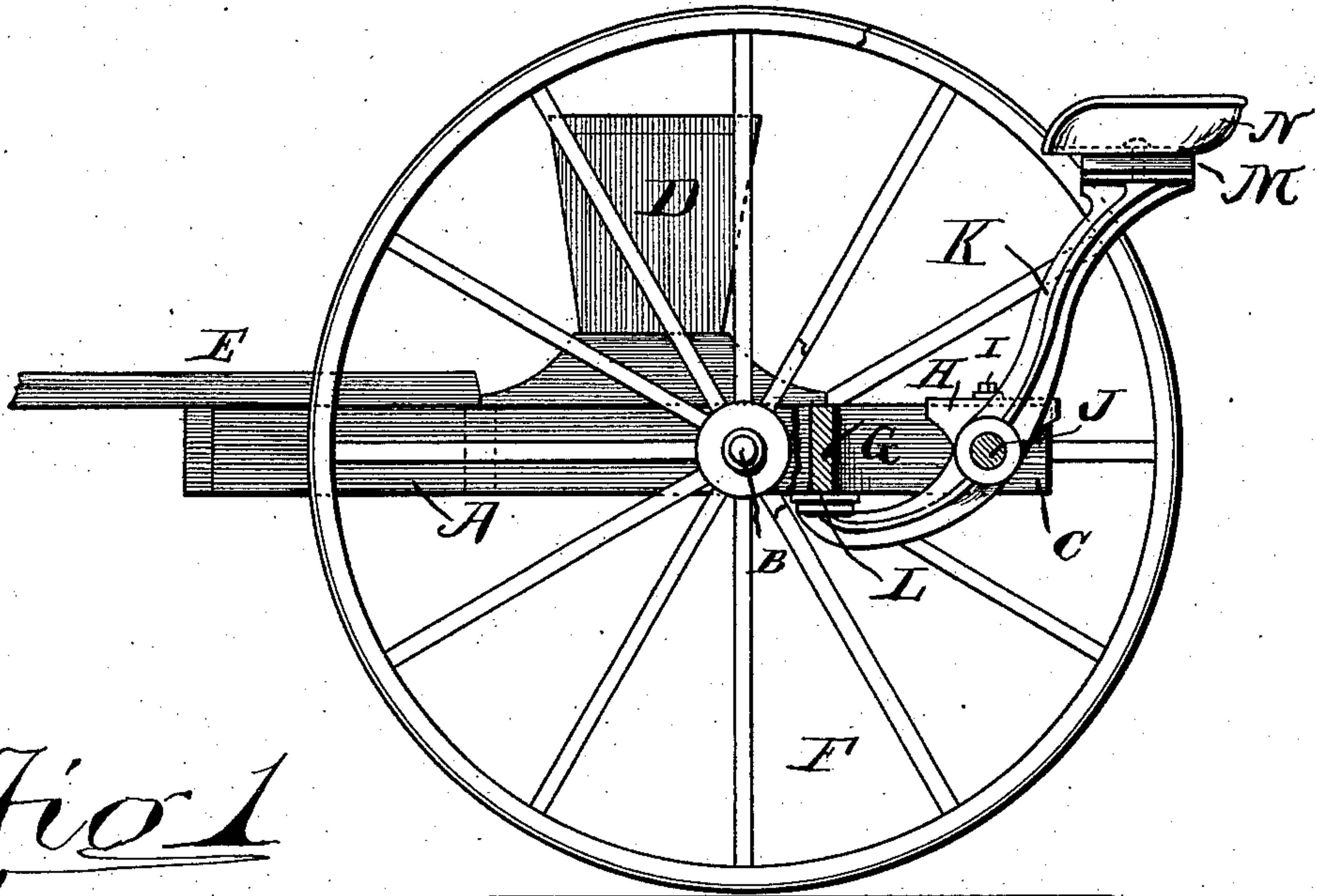


Fig 1

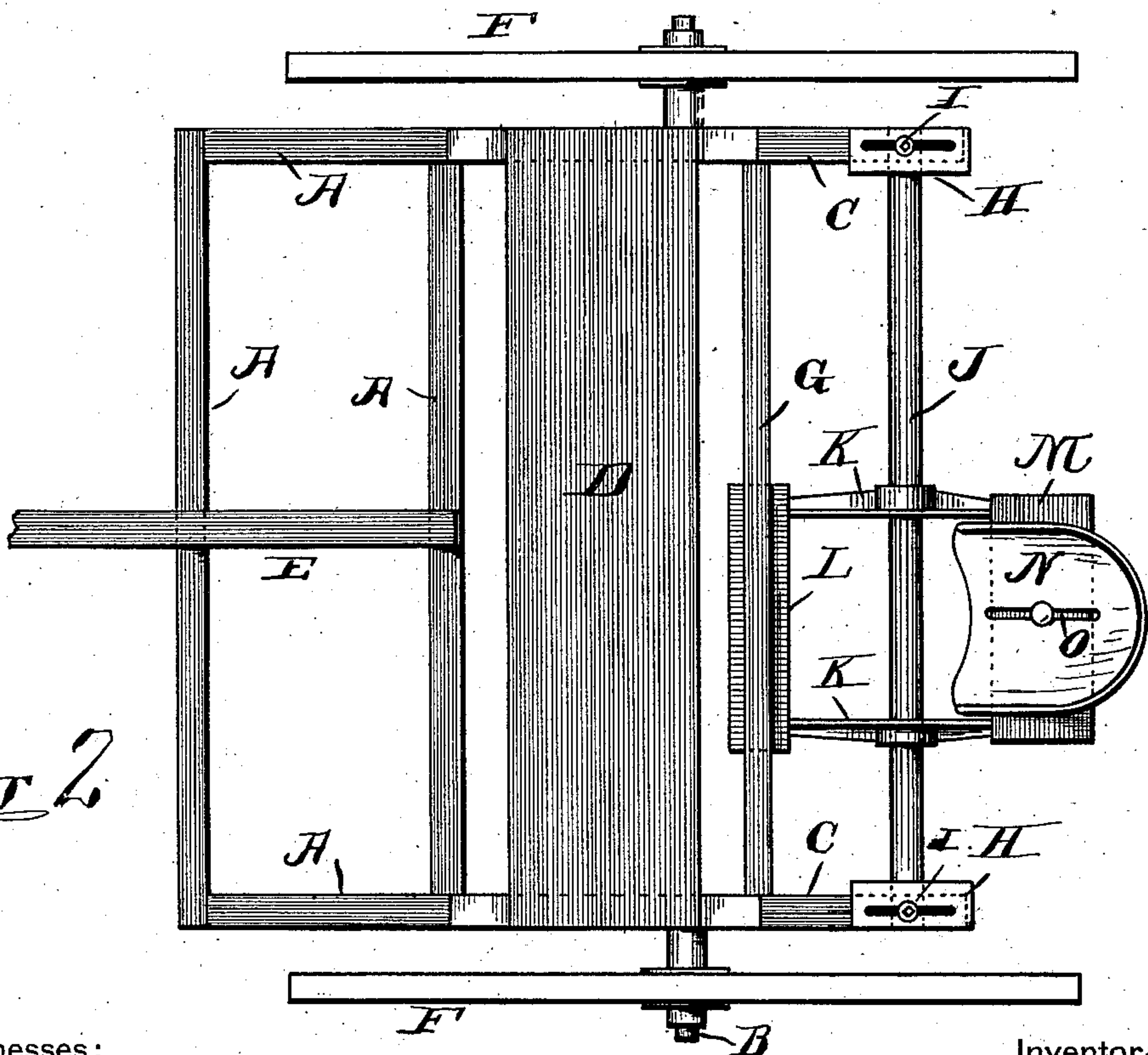


Fig 2

Witnesses :

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ward

Inventors

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UNITED STATES PATENT OFFICE.

ALBERT N. NORRIS AND HARRISON D. SPANGLER, OF RUSHVILLE, INDIANA,
ASSIGNORS TO NORRIS & BROTHER, OF SAME PLACE.

SEEDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 294,328, dated February 26, 1884.

Application filed November 10, 1883. (No model.)

To all whom it may concern:

Be it known that we, ALBERT N. NORRIS and HARRISON D. SPANGLER, of Rushville, Rush county, Indiana, have invented certain
5 new and useful Improvements in Seeding-Machines, of which the following is a specification.

This invention pertains to grain-drills and similar seeding-machines, and relates to the
10 arrangement of the driver's seat, as herein-after fully set forth.

In the accompanying drawings, Figure 1 is a side view, partly in section, of a seeding-machine embodying our improvements; and Fig.
15 2 is a plan of the same.

In the drawings, A represents the frame of the machine; B, the axle; C, rearward extensions of the side pieces of the same; D, the seed-box; E, the tongue; F, the wheels; G, a
20 cross-piece of the frame to the rear of the axle; H, hanger-castings secured to the rear ends of the extension C; I, bolts engaging slots in the hanger-castings, and securing said castings in their places; J, a cylindrical bar, preferably hollow, for the sake of lightness, supported in the hanger-castings H; K, a pair of
25 lever-arms pivoting freely upon the bar J, and fitted to slide freely along said bar; L, a plate secured to the lower extremities of the arms, and adapted to come against the under side of cross-piece G; M, a board secured to the upper extremities of the arms K; N, a seat bolted to said board, and a slot in said seat in which the attaching-bolt engages.

The seat may occupy the position indicated 35 in Fig. 1, or it may tip forward against the seed-box in an obvious manner.

The bar J may be adjusted to and from the seed-box by means of the slots in the hanger-casting, whereby the position of the seat may
40 be altered at will to cause the driver's weight to have the proper balancing effect. A further adjustment of a similar nature may be effected by moving the seat on its supporting-board in an obvious manner.

The seat arrangement may be moved from 45 one end of the machine to the other, whereby the driver is enabled to take his position near the line of the previously-formed seed-row, which guides him in his driving.

We claim as our invention—

1. The combination, in a seeding-machine, of the bar J, attached to the frame of the seeder, and fitted to adjust thereon, the seat-support pivoted thereon, and the seat fitted to
55 adjust upon its support, substantially as and for the purpose specified.

2. In a seeding-machine, the combination of the bar J, secured to the rear of the frame, and a driver's seat pivoted on said bar, and
60 fitted to slide along the same.

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Witnesses:

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