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Patented Feb. 4, 1902.

R. H. SCHLACHTER.
FEED REGULATING DEVICE FOR GRAIN DRILLS.

(Application filed Oct. 1, 1901.)

(No Model.)

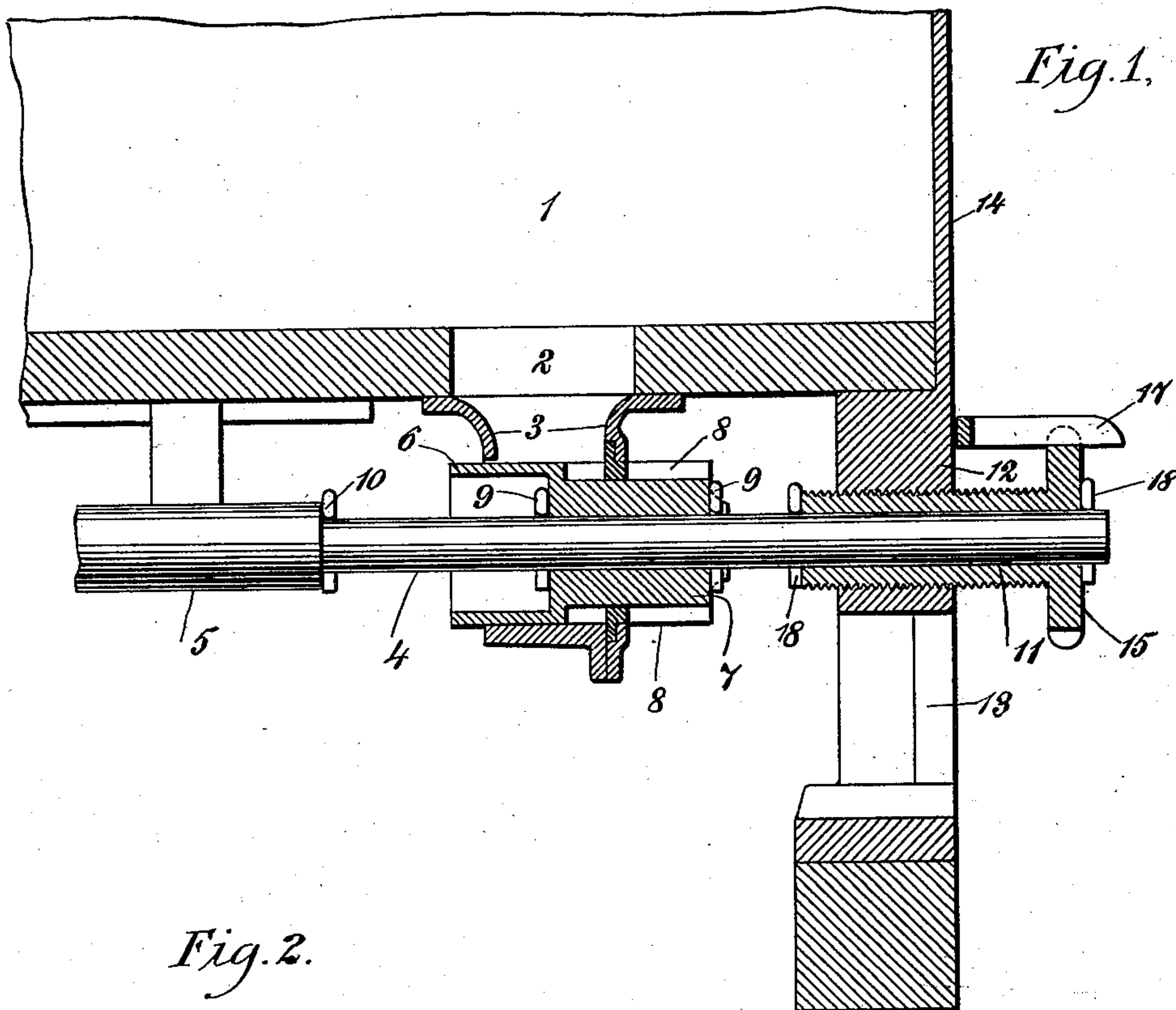
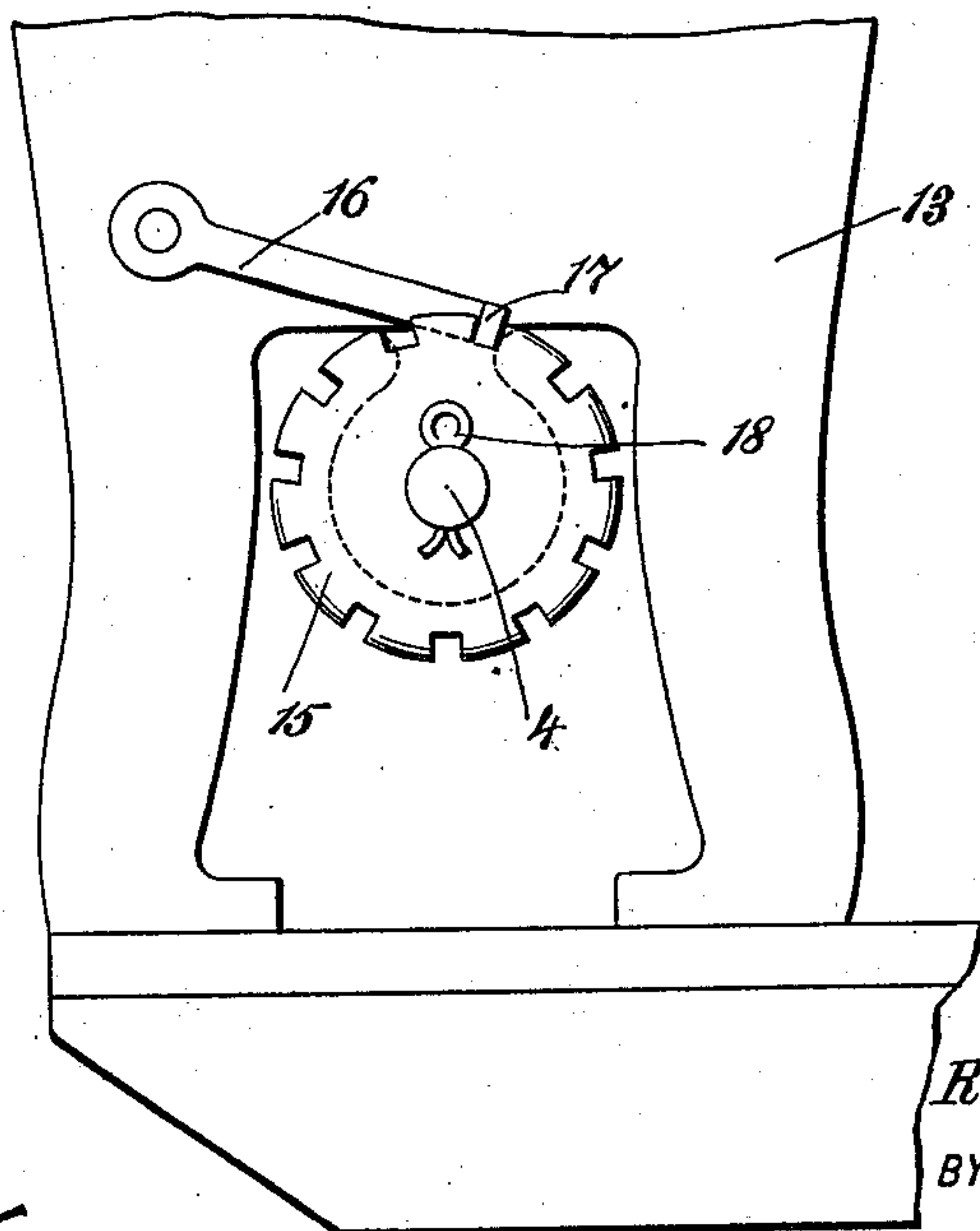


Fig. 2.



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FEED-REGULATING DEVICE FOR GRAIN-DRILLS.

SPECIFICATION forming part of Letters Patent No. 692,717, dated February 4, 1902.

Application filed October 1, 1901. Serial No. 77,179. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. SCHLACHTER, a citizen of the United States, and a resident of Clay Center, in the county of Clay and State of Nebraska, have invented a new and Improved Feed-Regulating Device for Grain-Drills, of which the following is a full, clear, and exact description.

The object of my invention is to provide a means whereby the amount of seed delivered from the discharge-opening of a grain-drill feed-box may be simply and accurately regulated. To this end I employ a threaded sleeve, through which the shaft carrying the feed mechanism passes, said sleeve when turned shifting the shaft and the feed mechanism across the discharge-opening of the feed-box, thereby regulating the amount of seed fed with the utmost nicety. In order to prevent a displacement of the shaft and feed mechanism when thus adjusted, I have provided a simple locking device for the sleeve.

The invention will be fully described hereinafter and the features of novelty pointed out in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures.

Figure 1 is a partial longitudinal vertical section of a portion of the feed-box of a grain-drill with my invention employed, and Fig. 2 is an end view of the feed-box shown in Fig. 1 with the improvement applied.

The feed-box 1 has one or more discharge-openings 2, communicating with a cup 3, through which the seed is delivered. Beneath the feed-box 1 and the cup 3 a shaft 4 is mounted, which passes through a sleeve 5, suspended from the box 1. The shaft 4 carries the feeding mechanism, which comprises a hollow smooth-faced follower 6 and a feeding-barrel 7, provided with a peripheral series of ribs 8, extending longitudinally relatively to the barrel. When the shaft is shifted in one direction, the smooth-faced follower 6 is moved across the cup 3, thereby cutting off the supply of seed. When the shaft is shifted in the other direction, the smooth-faced follower 6 is moved from the opening of the cup 3, so that the ribbed feed-barrel 7 may deliver

the seed. The quantity of seed delivered can be regulated by shifting the shaft more or less, so that the smooth-faced follower 6 is only partially withdrawn from the opening of the cup 3. The feed-barrel is held in position on the shaft by pins 9, and the movement of the shaft in one direction is limited by the pin 10, adapted to engage the sleeve 5.

In order accurately to regulate the amount of seed fed by the barrel 7, I employ a sleeve 11, through which the end of the shaft 4 loosely passes, said sleeve being screw-threaded in a bracket 12, carried by a base 13, integrally formed with the end 14 of the feed-box. The sleeve 11 is provided with a notched flange 15 on its outer end. To the base 13 a dog 16 is pivoted, having an outwardly-projecting arm 17, serving to engage the notched flange 15, as shown particularly in Fig. 2, for the purpose of holding the sleeve 11 against rotation. Pins 18 are passed through the shaft 4 and serve to communicate the motion of the sleeve 11 to the shaft 4.

In order to regulate the amount of seed which is fed through the cup 3, the sleeve 11, abutting against the pin 18, is turned, thereby shifting the shaft 4, together with the feed-barrel 7, and more or less withdrawing the follower 6 from the opening of the cup 3. It is evident that if the sleeve be turned in one direction the amount of seed delivered will be increased and that if the sleeve be turned in the other direction the smooth-faced follower 6 will be drawn across the opening of the cup 3, thereby totally or partially cutting off the supply of seed.

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

1. In a grain-drill, the combination with a shaft and feeding mechanism carried by the shaft; of a sleeve constituting a bearing for one end of the shaft and serving, when rotated, to reciprocate the shaft; a notched flange on the sleeve; and means adapted to engage the notched flange to hold the sleeve against rotation.

2. The combination with a grain-drill feed-box, a support therefor, a shaft mounted beneath the feed-box, and feeding mechanism carried by the shaft; of a sleeve threaded in

the feed-box support, said sleeve constituting
a bearing for one end of the shaft and serv-
ing when turned to reciprocate the shaft; a
notched flange on the sleeve; and a dog piv-
5 oted on the feed-box support and adapted to
engage the notched flange to hold the sleeve
against rotation.

In witness whereof I have signed my name
to this specification in the presence of two
subscribing witnesses.

ROBERT H. SCHLACHTER.

Witnesses:

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