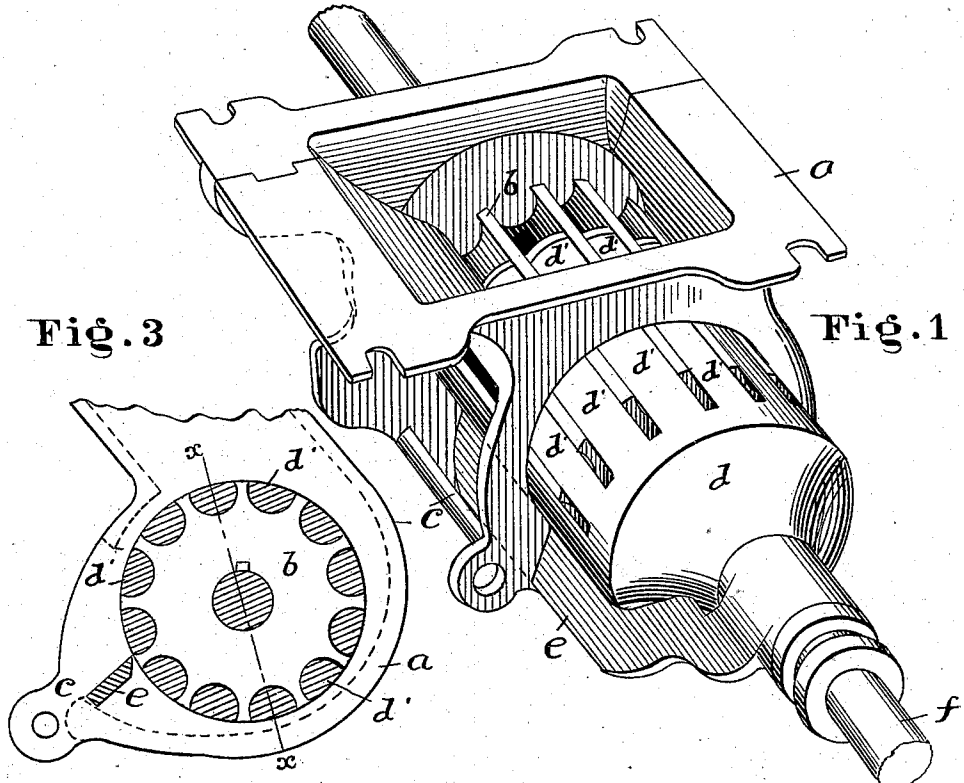
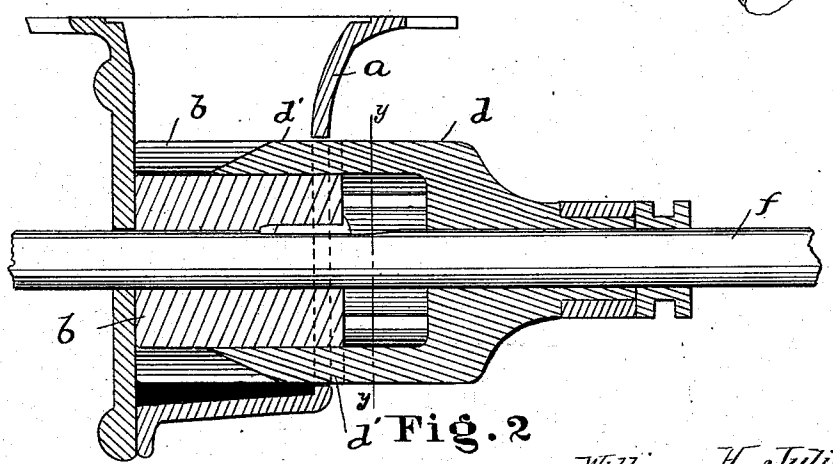
(No Model.)

# W. H. JULIAN.

## FEED FOR SEED DRILLS.

No. 295,647. Patented Mar. 25, 1884.




William H. Julian.
Inventor,
by Henry Millward
Attorney.

Attest
Phos. Strong
Thos Hill

N. PETERS. Photo-Lithographer. Washington, D. C.

# UNITED STATES PATENT OFFICE.

WILLIAM H. JULIAN, OF SPRINGFIELD, OHIO, ASSIGNOR TO THOMAS WALL, OF SAME PLACE.

## FEED FOR SEED-DRILLS.

SPECIFICATION forming part of Letters Patent No. 295,647, dated March 25, 1884.

Application filed January 2, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. JULIAN, of Springfield, county of Clark, State of Ohio, have invented a new and useful Improvement in Feed for Seed-Drills, of which the following is a specification.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a machine embodying my improvements, showing the feed-case, feed-wheel, sliding gate, and feed-shaft. Fig. 2 is a horizontal section taken through line *x x* of Fig. 3, and Fig. 3 is a transverse section taken through line *y y* of Fig. 2. In each of these views letters of like character indicate corresponding parts.

The object of this invention is the improvement of the feed-regulating mechanism; and it consists in a corrugated cylinder fixed to a feed-shaft and a sliding gate provided with projecting fingers that slide horizontally into the aforesaid corrugations in a suitable manner to make a smooth instead of a corrugated surface, where the aforesaid sliding fingers lie in said corrugations. The object of this is to obviate obstruction from seed between the ends of the sliding fingers and the feed-case; and to this end the fingers are also chamfered, so as to allow the seed to slide over them, as will hereinafter more fully appear.

In the feed-case *a* rotates the corrugated cylinder *b*, that carries in its corrugations the seed to be distributed, and discharges the same at the outlet *c* in such proportions as accord with the length of its unfilled corrugations. To fill said corrugations I use a sliding part, *d*, provided with fingers *d'*, in any number to suit the number of corrugations in the cylinder *b*. The fingers *d'* fit into the corrugations of the cylinder *b*, so as to regulate the feed of grain, as shown by Fig. 3 of the drawings, without leaving any shoulder to obstruct the passage of said fingers through said corrugations, and to aid their passage as aforesaid the free end of each finger is chamfered, as shown, thereby obviating the difficulty experienced with other sliding feeds that have an annular projection around the sliding teeth.

To cut off the feed through the egress-channel *c*, I use a slide, *e*, that is attached to and moves with the fingers *d'*, and its free end should be in line with the free ends of said fingers. The cylinder *b* rotates with the shaft *f*, and the parts *d* and *d'* rotate with said cylinder, while the part *e* remains at rest except when moved with the fingers *d'* to change the feed of seed.

I am aware that internal teeth have been used in corrugations formed around the circumference of a revolving cylinder; but with this arrangement an annular shoulder pushing against the seed opposes the progress of the internal teeth when being moved up to cut off the feed.

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

In a seeding-machine, the corrugated cylinder *b*, revolving in a feed-case, *a*, in combination with a sliding cut-off, *d*, that has fingers *d'*, chamfered at their free ends, and a cut-off, *e*, all substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 3d day of September, 1883.

WILLIAM H. JULIAN.

Witnesses:

HENRY MILLWARD,

CHASE STEWART.