(No Model.)

# J. H. KEEDY.

## FORCE FEED FOR GRAIN DRILLS.

No. 305,314. Patented Sept. 16, 1884.

Fig. 1.

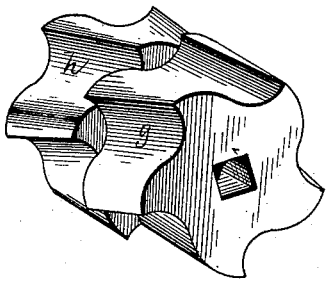



Fig. 2.

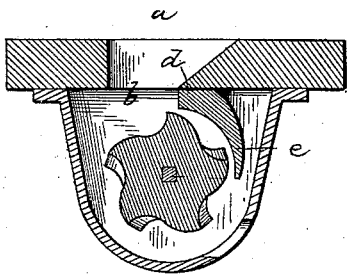
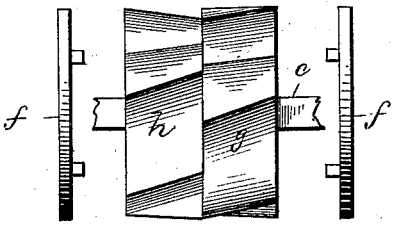



Fig. 3.




WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN H. KEEDY, OF WEST ALEXANDRIA, OHIO.

## FORCE-FEED FOR GRAIN-DRILLS.

SPECIFICATION forming part of Letters Patent No. 305,314, dated September 16, 1884.

Application filed April 5, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. KEEDY, a citizen of the United States, residing at West Alexandria, in the county of Preble and State of Ohio, have invented a new and useful Force-Feed for Grain-Drills, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to force-feed wheels for grain-drills; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

Figure 1 is a view in perspective of the feed-wheel embodying my improvement, and Fig. 2 is a view of the feed-wheel in place upon the shaft below the throat of the hopper. Fig. 3 is a detail view of the feed-wheel and the washers detached from its ends.

Referring by letter to the accompanying drawings, *a* designates the hopper; *b*, the throat of the same, and *c* the shaft on which the feed-wheel is keyed.

The cap *d* and its curtain *e*, and the washers *f f*, as well as the parts above mentioned, are the same in construction as those parts shown in Letters Patent to D. E. McSherry, No. 97,425, of November 30, 1869, on which this invention is designed to be an improvement.

The improvement herein lies in the construction of the seed-cups in the feed-wheel, which, instead of extending in spiral form entirely across the perimeter of the wheel, as in said patent, are formed by spiral grooves *g*, extending half-way across the perimeter and mismatching the spiral grooves *h*, extending from the middle to the opposite face of the wheel, the said spiral grooves *g* and *h* running in the same direction. By this arrangement a double set of cups are formed, which operate to force the grain forward continuously in a small stream, thereby securing a uniform supply of seed to the discharge.

The device is simple and certain in its action and is not liable to get out of order.

I am aware that a feed-wheel for forced-feed grain-drills has been provided with spiral grooves extending entirely across its perimeter, and has been used in connection with collars or washers at its ends; also, that a feed-wheel has been provided with straight teeth extending half-way across its perimeter and arranged to mismatch, and I do not claim either of said constructions.

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

The herein described force-feed for grain-drills, consisting of the wheel provided with the mismatched spiral grooves *g* and *h* extending one-half way across its perimeter, in combination with the washers *f f* at its ends, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN H. KEEDY.

Witnesses:

P. J. C. KERDEY,

JOHNSON MCLEAN.