

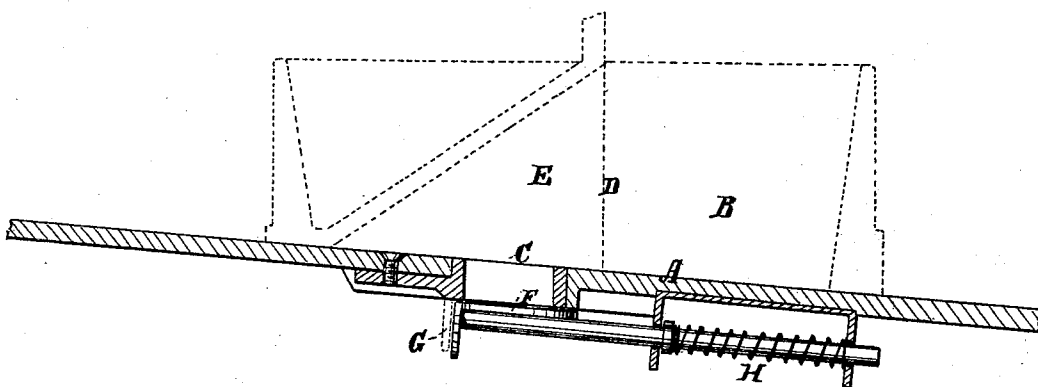
R. M. & W. H. BOWMAN.

Corn-Droppers.

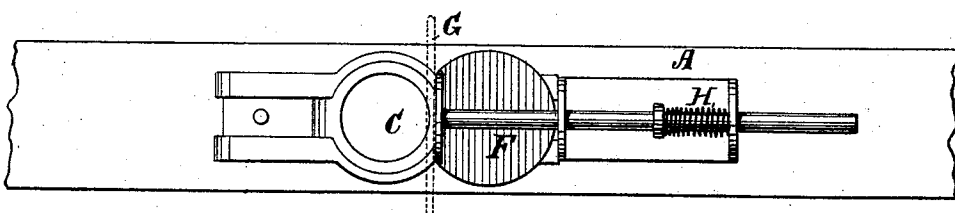
No. 145,552.

Patented Dec. 16, 1873.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*A. Remmeleendorf.*  
*Adams*

Inventor:

*R. M. Bowman*  
Per *W. H. Bowman*  
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Attorneys.

# UNITED STATES PATENT OFFICE.

ROBERT M. BOWMAN AND WILLIAM H. BOWMAN, OF LONDON, OHIO.

## IMPROVEMENT IN CORN-DROPPERS.

Specification forming part of Letters Patent No. **145,552**, dated December 16, 1873; application filed July 26, 1873.

*To all whom it may concern:*

Be it known that we, ROBERT M. BOWMAN and WILLIAM H. BOWMAN, of London, in the county of Madison and State of Ohio, have invented a new and Improved Corn-Dropper, of which the following is a specification:

Our invention consists of a hopper-bottom having the hole for dropping the grain into it, with a supplementary slide for closing the hole arranged on its under side, said bottom being arranged to slide forward and back to bring the hole under the grain in the hopper, and then move it beyond the cut-off to the place of delivery, and at the same time open the hole by carrying the supplementary slide against a stop, which holds it against moving with the hopper-bottom as soon as the hole has passed beyond the cut-off, while the bottom continues as far as the width of the hole, and then goes back for another charge, the supplementary slide being closed during the back movement by a spring. The arrangement is designed to prevent the choking and clogging common to most droppers in use.

Figure 1 is a sectional elevation of the drop-per-slide and the bottom portion of the hopper, the latter being shown in dotted lines; and Fig. 2 is a plan of the bottom of the drop-per-slide.

Similar letters of reference indicate corresponding parts.

A is the bottom of the hopper B. C is the hole through the bottom A for the grain. D is the place in the hopper where the cut-off is to be placed, for cutting off all grain except what is contained in the hole. E is the cham-

ber behind the cut-off D. F is the supplementary slide on the under side of the hopper-bottom for closing the hole. G is the stop for arresting the supplementary slide, and H is the spring for closing slide F. The hopper-bottom A is arranged to slide forward and back by any suitable means, and carries the hole C under the cut-off into the hopper to be filled, said hole being closed at the time by the slide F, and forming a pocket, which, being filled, carries the grain contained in it beyond the cut-off into the recess E; the pocket then opens by the slide F coming against the stationary stop G, while the hopper-bottom continues to move until the hole is completely opened; the bottom then goes back, and the hole is closed during the first part of the backward movement.

It will be seen that there is little or no chance for the hole to clog with the grain, and in case it does the grain in the pocket will be carried forward and backward with the slide, but cannot stop it.

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

The slide-bottom A, having the drop-hole C, combined in a corn-dropper with the auxiliary spring-slide F, the two arranged to operate together in the manner and for the purpose described.

ROBERT M. BOWMAN.  
WILLIAM H. BOWMAN.

Witnesses:

A. L. MESSMORE,  
LEONARD EASTMAN.