No. 639,486. Patented Dec. 19, 1899.

L. A. WRIGHT.

BROADCAST SEEDER ATTACHMENT.

(Application filed Sept. 15, 1899.)

(No Model.)

Fig. 1.

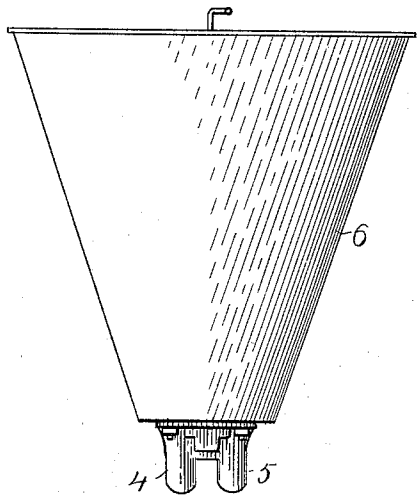


Fig. 2.

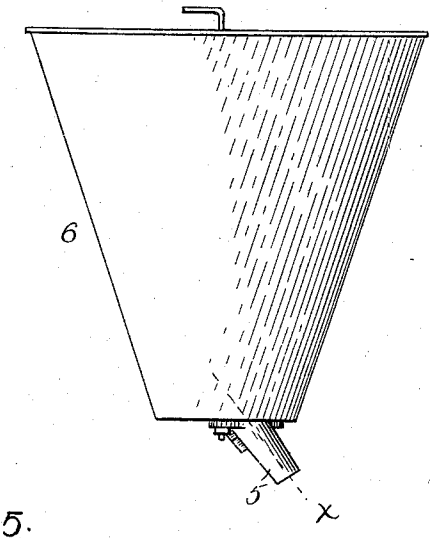


Fig. 5.

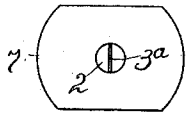


Fig. 3.

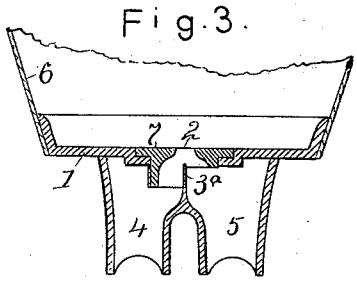


Fig. 4.

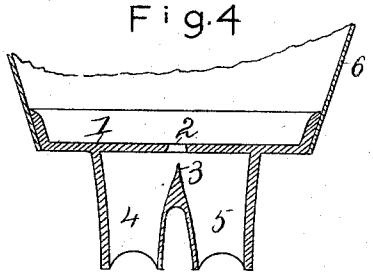
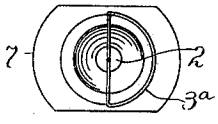


Fig. 6



Attest,
Nora Graham.
Ira Graham.

Lindley A. Wright.
By L. P. Graham
his attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LINDLEY A. WRIGHT, OF CHAMPAIGN, ILLINOIS, ASSIGNOR TO THE F. B. TAIT MANUFACTURING COMPANY, OF DECATUR, ILLINOIS.

BROADCAST-SEEDER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 639,486, dated December 19, 1899.

Application filed September 15, 1899. Serial No. 730,544. (No model.)

To all whom it may concern:

Be it known that I, LINDLEY A. WRIGHT, of the city and county of Champaign, State of Illinois, have invented certain new and useful Improvements in Attachments for Broadcast Seeders, of which the following is a specification.

This invention relates to broadcast seeders in which a principal seed, as oats, for instance, is thrown sidewise right and left by two centrifugal distributers or their equivalent and in which a secondary seed, as clover, is supplied to each of the distributers in equal or nearly equal quantities. In seeders of this class one of the requirements is to supply the secondary seed in small streams continuously delivered without clogging the discharge-openings, and this invention is intended to meet this requirement.

Heretofore each of the two distributers has been supplied from separate openings in the secondary hopper, which has necessitated two rather small openings, in which the grain has shown a tendency to clog; and it is the gist of this invention to supply the two distributers through a single comparatively large opening and to divide the stream of seed in its passage from the hopper to the distributers.

The invention resides, first, in a seed-stream divider located below a discharge-opening sufficiently large to supply two distributers with a proper proportion of secondary seed, and, second, in specific means for forming the divider. It is exemplified in the structure hereinafter described, and it is defined in the appended claims.

In the drawings forming part of this specification, Figures 1 and 2 are a front elevation and a side elevation, respectively, of a secondary seed-hopper constructed in accordance with my invention. Fig. 3 is a section on line X in Fig. 2 through the discharge-outlet of the hopper, showing the preferred details of construction. Fig. 4 is a similar section showing a simplified form of stream-divider. Fig. 5 is a plan of the upper surface of a removable die having a discharge-opening and supplied with a stream-divider. Fig. 6 is a plan of the under surface of the die.

Referring to Fig. 4, the hopper is shown at 6, the bottom thereof at 1, the discharge-opening at 2, and the stream-divider at 3. The divider is in all cases a vertical partition set below the discharge-opening or the narrowest part thereof a sufficient distance to permit the unobstructed passage of a stream of seed sufficient to supply both of the seed-distributers, and in the case of the structure shown in Fig. 4 the divider is integral with the bifurcated chute for the divided stream, one leg of which is shown at 4 and the other at 5. This is a simplified form of the idea; but as it is desirable to vary the size of the discharge-opening 2 and as the dividing-partition 3 should always be directly under the center of the discharge-opening I have found it advantageous to make dies, as 7, each of which fits into a recess in the bottom of the hopper and has a discharge-opening larger or smaller than its fellows, so that a complete set of dies will provide openings of all required sizes. The dies each have a downward-extended rim or flange, one-half of which is cut away, as shown in Figs. 3 and 6, and around the semicircle of the intact rim is bent a strip of thin metal 3^a, which in traversing the discharge-opening forms a stream-divider partaking of whatever side motion the die may have and always retaining its coincidence with a diameter of the opening.

The stream-divider should divide the seed equally. It is more certain to do this if its relation to the discharge motion is nicely and permanently fixed; but in the broadest sense of the invention I do not restrict myself to any particular means for holding the divider below and diametrically across the discharge-opening.

What I claim is—

1. In a broadcast-seeder attachment, the combination of a secondary seed-hopper having a discharge-opening in its bottom sufficiently large to supply both sides of the seeder with the secondary seed, a bifurcated chute under the opening of the hopper, and a stream-dividing partition fixed diametrically across the discharge-opening below the narrowest part thereof, whereby equal parts of seed may be supplied to both sides of the seed-distributer.

2. A seed-hopper, a removable die in the bottom of the hopper having a discharge-

opening, and a stream-dividing partition on the under side of the die below the narrowest part of the discharge-opening.

3. A seed-hopper, a removable die in the bottom of the hopper having a discharge-opening, a semicircular rim on the bottom of the die concentric with the discharge-opening and a strip of metal attached to the rim and extended diametrically across the discharge-opening below the same.

In testimony whereof I sign my name in the presence of two subscribing witnesses.

LINDLEY A. WRIGHT.

Witnesses:
J. W. PORTER,
OLIVER K. DONEY.