

J. D. JONES.  
Seed-Drill Teeth.

No. 50,135.

Patented Sept 26, 1865.

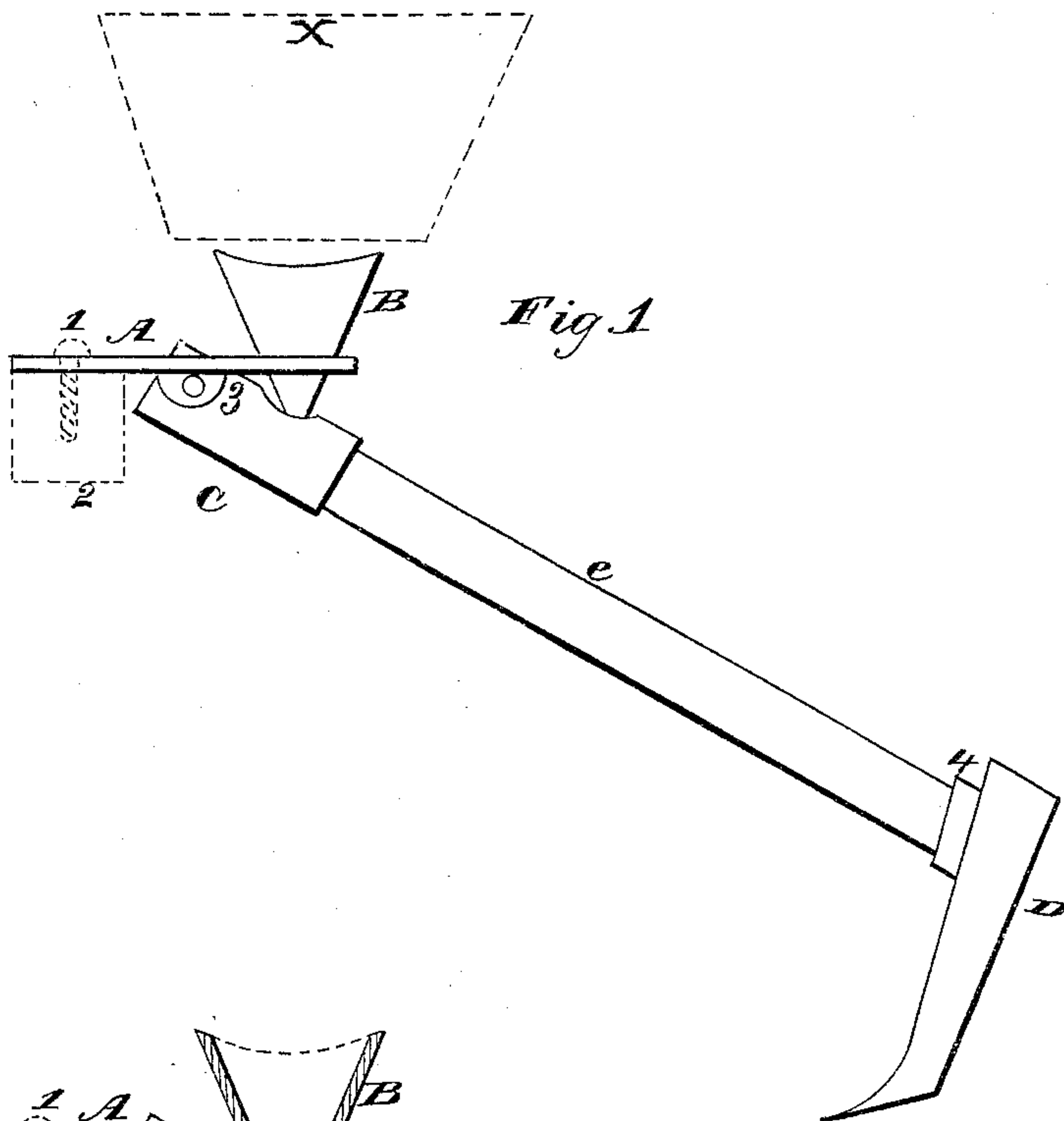


Fig. 1

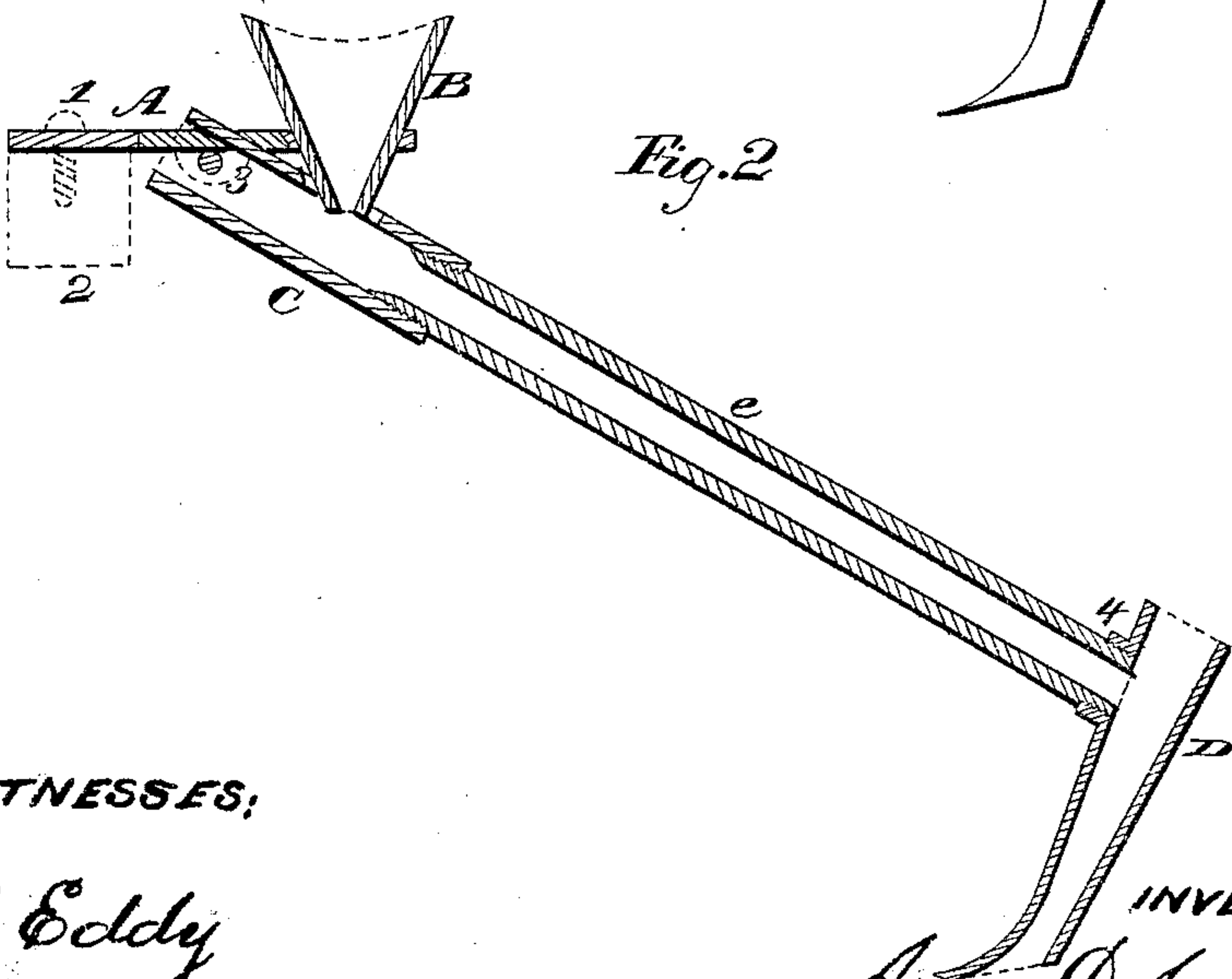


Fig. 2

WITNESSES:

C. J. Eddy  
Asbel Ingerson

INVENTOR:

James D. Jones.  
By his Attorney James J. Johnston.

# UNITED STATES PATENT OFFICE.

JAMES D. JONES, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN DRAG-BARS AND TEETH FOR GRAIN-DRILLS.

Specification forming part of Letters Patent No. 50,135, dated September 26, 1865.

*To all whom it may concern:*

Be it known that I, JAMES D. JONES, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Drag Bars and Teeth for Grain-Drills; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the use of an attachment-plate, furnished with a receiving-hopper, in combination with a distributing-tube attached to a tooth or drill used for drilling in seed, the whole being constructed, arranged, and operating substantially as hereinafter described.

In the accompanying drawings, Figure 1 represents a side view of the attachment-plate, hopper, drill or tooth, and distributing-tube. Fig. 2 represents a longitudinal section of the same.

In the drawings, A represents the attachment-plate, which, with the hopper B, is made of cast-iron and cast in one piece. On the under side of the plate A are two lugs, 3, to which is attached the part of the distributing-tube marked C, by means of a small rod or bolts. In the upper side of the distributing-tube is an opening into which enters the lower end of the hopper B. To the part C of the distributing-tube is attached the part marked e, to which

is attached an ordinary tooth of grain-drills, except that the tooth is furnished with a socket, (marked 4.) The distributing-tube is made of ordinary gas-pipe, and can be made in one piece, if desired. The tooth D and the parts C and e of the distributing-tube are attached to each other by means of screw-threads, which mode of attaching will be readily understood by reference to Fig. 2 of the drawings.

The operations of my improvement is as follows: The plate A is bolted to the cross-bar of the frame of the grain-drill, so that the hopper B will come under the seed-box, as indicated by the dotted lines 1, 2, and X. The seed drops from the box X into the hopper B, from which it drops into the tube C and e, and passes along it into the tooth D, and down it into the ground.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention is—

The use of the attachment-plate A, furnished with the receiving-hopper B, and used in combination with the drill D and distributing-tube C and e, constructed, arranged, and operating substantially as herein described, and for the purpose set forth.

JAMES D. JONES.

Witnesses:

JAMES J. JOHNSTON,  
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