

R. P. Johnson,

Feed Regulator.

No. 105,807.

Patented July 26, 1870.

Fig 1

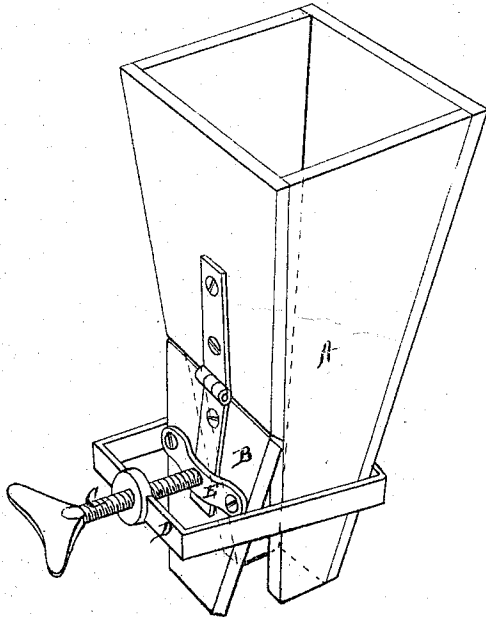


Fig 2



Witnesses

Harry King  
C. L. Sweet

Inventor:

Russel P. Johnson  
per Alexander Mason  
Atty.

# United States Patent Office.

RUSSEL P. JOHNSON, OF GRIFFIN, GEORGIA.

Letters Patent No. 105,807, dated July 26, 1870.

## IMPROVEMENT IN HOPPER FOR MILLS AND GRAIN-DRILLS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, RUSSEL P. JOHNSON, of Griffin, in the county of Spalding and in the State of Georgia, have invented certain new and useful Improvements in Adjustable Feed-Spout or Hopper for Mills and Grain-Drills; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of an adjustable feed-spout or auxiliary hopper, to be attached under the usual mill-hoppers and also to all kinds of drills for sowing grain and fertilizers.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which fully represents my feed-spout.

A represents the spout or hopper, made of any suitable dimensions, either of square, round, or oval form, as may be desired.

The lower portion, B, of one side of the hopper is hinged, as shown, and operated by means of the set-screw C, working in a frame, D, attached to the hopper.

The inner end of the screw C is swiveled in a bar, E, attached to the hinged door B.

By the use of the screw C and hinged door B, it will be seen that the lower end, or rather the opening in the lower end of the hopper, is increased or diminished at will, thus regulating the quantity of grain passing through the same.

To prevent waste of grain at the sides of the hopper, the door B may be provided with jaws to work with said door or lip.

This device is intended to supersede the old clumsy shoe under mill-hoppers, and may also be used on all kinds of drills for sowing grain and fertilizers, as well as on steam machinery for like purposes.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The arrangement of the hopper A, hinged door B, metal frame D, screw C, and bar E, all constructed and operating substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 20th day of April, 1870.

RUSSEL P. JOHNSON.

Witnesses:

I. C. LITTLE,

W. H. HIGHTONE.