

J. O. Frost.
Grain Spout.

117531

PATENTED AUG 1 1871

Fig. 1.
x

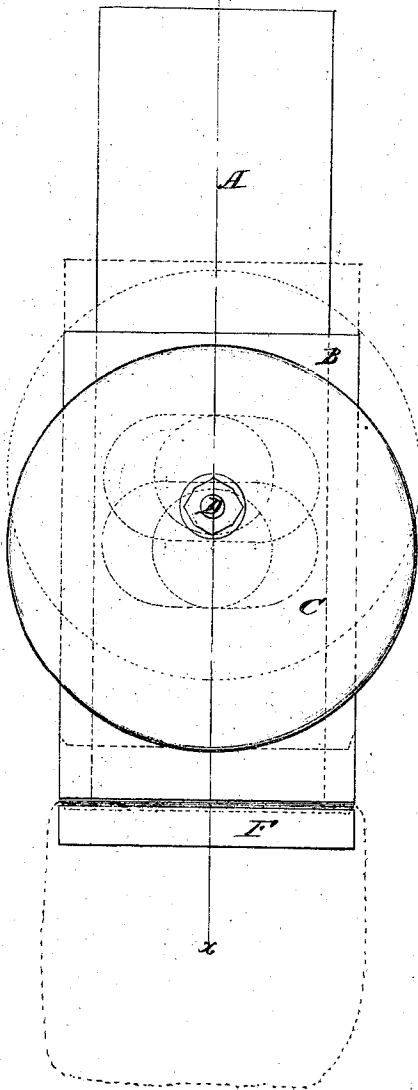
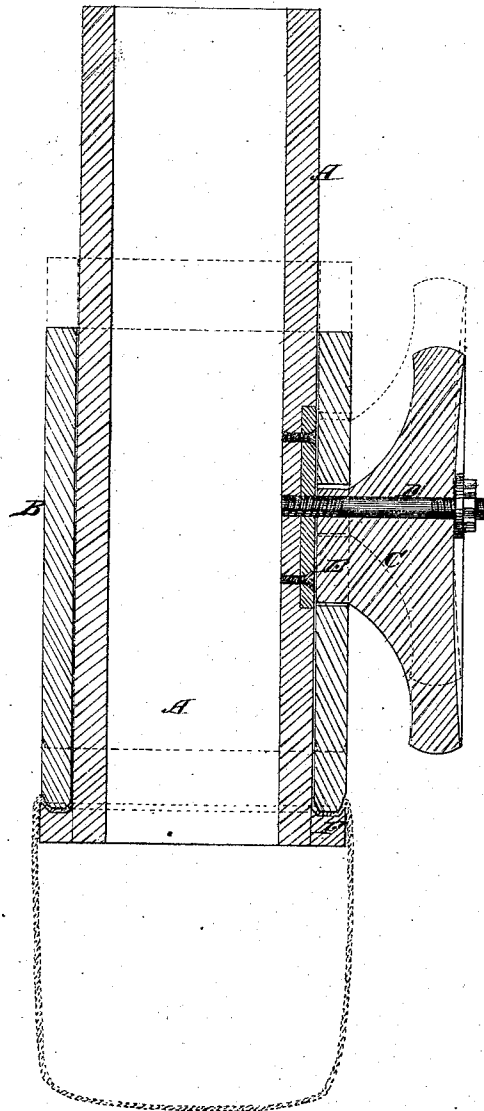


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN O. FROST, OF CANDOR, NEW YORK.

IMPROVEMENT IN GRAIN-SPOUTS.

Specification forming part of Letters Patent No. 117,531, dated August 1, 1871.

To all whom it may concern:

Be it known that I, JOHN O. FROST, of Candor, in the county of Tioga and State of New York, have invented a new and useful Improvement in Grain-Spout; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in spouts for delivering grain and similar commodities into bags; and consists in a sleeve made to slide on the spout by means of an eccentric or other analogous or equivalent device, the construction and arrangement being as hereinafter more fully described.

In the accompanying drawing, Figure 1 is a side view of the spout and sleeve facing the eccentric. Fig. 2 is a vertical section of Fig. 1 taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the spout. B is the sleeve on the spout. C is the eccentric or hand-wheel, eccentrically attached to the spout by the bolt D. The sleeve has an orifice, of oval shape, corresponding in width or smallest diameter with the diameter of the neck E of the eccentric. Its length or largest diameter is sufficient to receive the

throw of the eccentric. The arrangement is plainly shown in Fig. 1, where the orifice through the sleeve and the eccentric is seen in dotted lines; also, the position of the sleeve when down, fastening the bag, and when raised up, the latter being shown in dotted lines. F is a collar around the end of a spout.

When the sleeve is thrown down by the eccentric the bag is fastened between the collar and the end of the sleeve, as seen in Fig. 2. When the eccentric is turned and the sleeve is turned thrown up room is left for adjusting the bag over the collar.

By this improvement no hooks are required, and, consequently, there is no tearing of the bags, or of the clothes or fingers of the miller.

I do not confine myself to this particular arrangement, as I am aware that the sleeve may be operated on the spout by means of a cam and without a hand-wheel.

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

In combination with a grain-spout, the sliding sleeve B, the eccentric *c* or its equivalent, and collar F, substantially as and for the purposes described.

JOHN O. FROST.

Witnesses:

R. M. BOSTWICK,
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