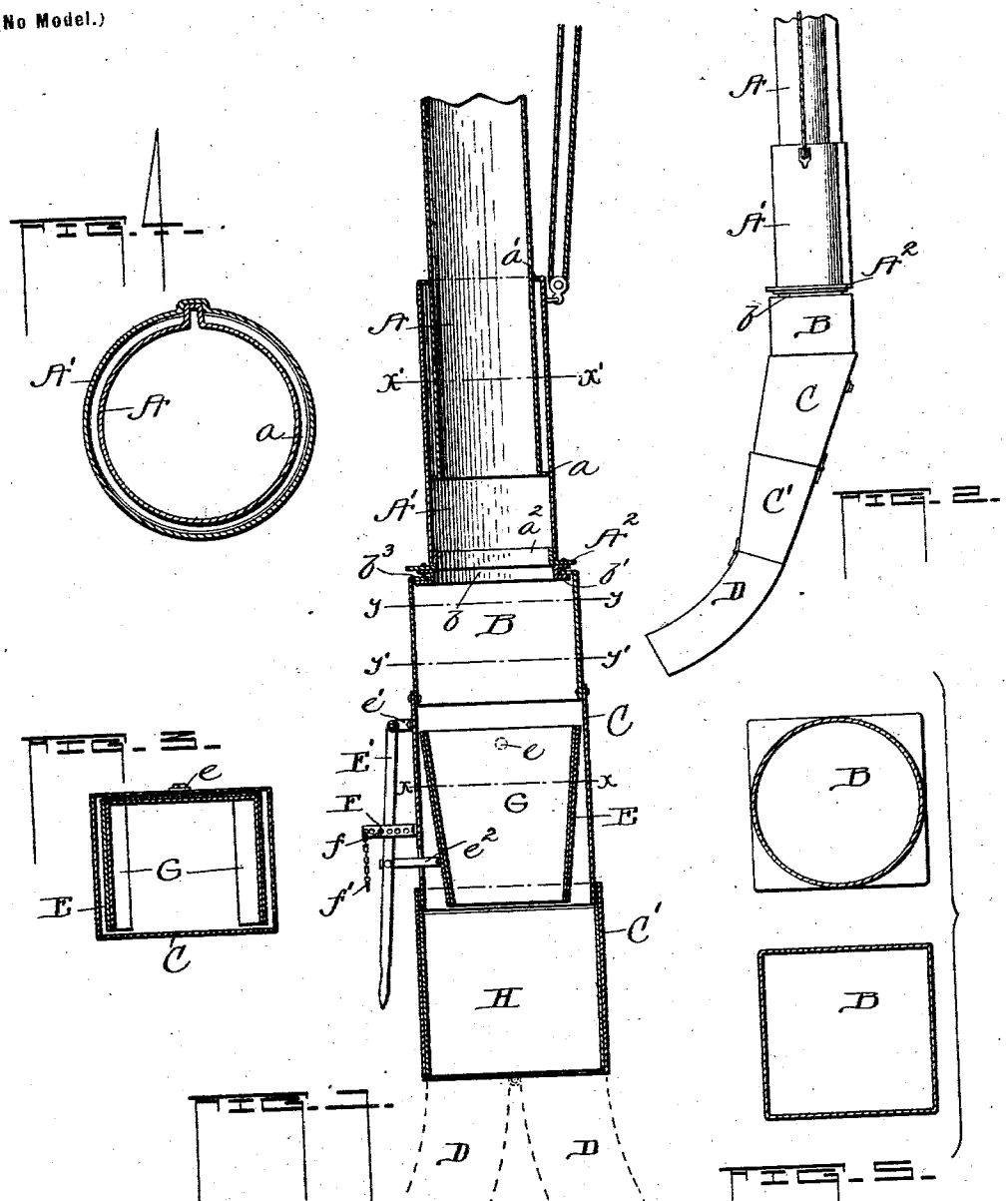
No. 708,208. Patented Sept. 2, 1902.

W. D. DICKSON.

GRAIN SPOUT.

(Application filed Nov. 18, 1899. Renewed July 26, 1902.)

(No Model.)



Witnesses:-
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UNITED STATES PATENT OFFICE.

WILLIAM D. DICKSON, OF PEORIA, ILLINOIS.

GRAIN-SPOUT.

SPECIFICATION forming part of Letters Patent No. 708,208, dated September 2, 1902.

Application filed November 18, 1899. Renewed July 26, 1902. Serial No. 117,202. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. DICKSON, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Grain-Spouts; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in grain-spouts, whereby new and novel features are combined, forming a grain-spout which is both durable in construction and cheap at first cost.

More particularly my invention relates to an improvement in bifurcated grain-spouts, and more especially as an improvement on my patent of August 1, 1882, No. 261,837; and the object of the present invention is to provide a telescoping delivery-section provided with suitable means for raising and lowering the same, a hood which is suitably connected on the bottom of said telescoping section and in such a manner as to revolve thereon, of a bifurcated section, and of suitable mechanism for shifting and maintaining an equalizer therein and in proper relation thereto, and of linings carried in said equalizer and intermediate section and removably secured therein.

That my invention may be more fully understood, reference is had to the accompanying drawings, in which—

Figure 1 is a vertical section showing my improved grain-spout. Fig. 2 is an elevation of the same. Fig. 3 is a section on the line X X of Fig. 1. Fig. 4 is a cross-section on the line X′ X′ of Fig. 1. Fig. 5 shows sections on the lines Y Y and Y′ Y′ of Fig. 1, showing in cross-section the hood.

In the drawings, A represents the lower end portion of a delivery-spout, which is circular in cross-section, and A′ is a short section of pipe forming the lower end portion of the delivery-spout and is telescoped thereon and has a spline-and-groove connection therewith. The section A′ is purposed to be raised and lowered upon the section A, and for this purpose suitable mechanism or any well-known means may be provided for accomplishing this and for retaining the same at suitable points the length thereof.

The spout A is provided with the flange a, and the spout A′ is provided with a flange a' at its upper end, and A^2 is a flanged plate or ring attached to the section A′ upon its lower end by means of a flange a^2, extending up therefrom, the flange a^2 of the plate A^2 and the flange a' purposed to engage with the flange a on the section A, which limits the movement of the section A′ when the same is raised or lowered.

B is a hood secured on the lower end of the section A′ and has a revoluble relation therewith. The means for attaching the hood to the section A′ is as follows: A depending circular flange b is shown extending down from the plate A^2 and having the lateral extension b'. The hood has an inwardly-turned flange b^3 at its upper end, which encircles the flange b and has a bearing relation with the extension b'. The lower delivery end of the hood has a square end portion adapted to have attached thereto the bifurcated section of the spout through suitable intermediate sections.

C is a section which may be bolted or otherwise secured to the hood B, as shown, and C′ represents a hinged intermediate section which is purposed to be hinged to the section C, and D D are curved spouts or pipe extensions hinged to the section B and purposed to be hinged thereto and operated in the same manner as in my former patent hereinbefore mentioned.

E is an equalizer or swinging chute carried within the section C, formed of a back and two sides, the same being somewhat reduced in width at the bottom and pivoted within said section and to the same at e. E′ is a lever carried without said section C and pivoted to the plate e', secured thereto. The lever E′ is suitably secured to a connecting-bar e^2, which extends out from the equalizer E and through a slot in the section C. The lever is carried through a perforation or open slotted way in a bar F, secured to the section C, provided with perforations f at successive points in said bar, and f' is a pin suitably attached

by a chain connection to the bar F, adapted to be inserted through either of the perforations *f* and a perforation in the lever when the same is coincident therewith and at times when the operator desires an adjustment of the equalizer E to divert the grain into either of the extensions D D, thus retaining the equalizer in its proper position.

G is a detachably-secured lining in shape similar to the equalizer and purposed to be carried therein, and H is a detachably-secured lining carried by the intermediate section C'. The function of these said linings is to provide means whereby the equalizer and intermediate sections of the spout may have a maximum of wear, the steady falling of the grain sooner or later making them unfit for use; but by providing a detachable lining for each of said sections they may be easily and readily removed when worn and new linings replaced.

By the provision of a telescoping delivery-spout with suitable raising and lowering mechanism and a revolving hood attached thereto in combination with the other features shown and described I am enabled to raise and lower the entire spout and connections and at the same time shift and raise or lower the bifurcated sections at different angles, the mechanism being simplified in such a manner as to permit of one operator operating the entire device.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A device of the character described comprising the telescopic sections A, A', hood B, rotatably mounted on the section A', sections C, C', the bifurcated sections D, D, an equalizer E, pivotally mounted in the section C, means for adjusting the equalizer, and means for elevating the structure, substantially as described.

2. A device of the character described, comprising the telescopic sections A, A', splined together, hood B, rotatably mounted on the section A', bifurcated sections D, D, a section intermediate the hood and bifurcated sections, an equalizer adjustably mounted in said intermediate section, and means for securing the equalizer in its adjusted positions, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM D. DICKSON.

Witnesses:
B. M. SIEGLE,
W. V. TEFFT.