No. 711,197. Patented Oct. 14, 1902.

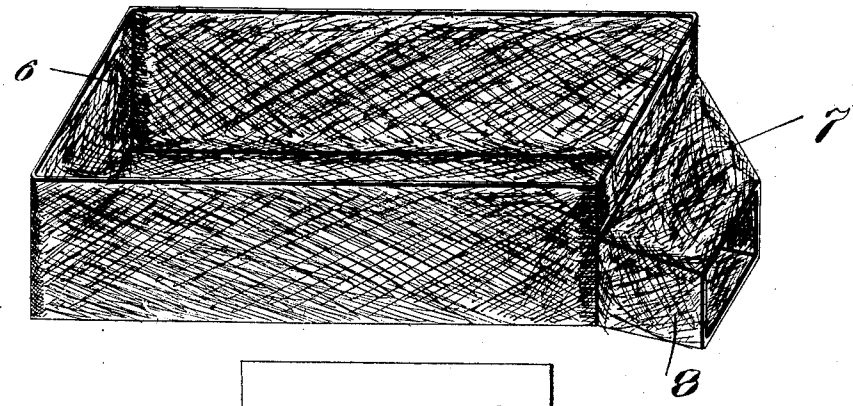
C. I. BOSTWICK.

LINING FOR GRAIN WAGONS OR TANKS.

(Application filed May 9, 1902.)

(No Model.)

Fig. 1.



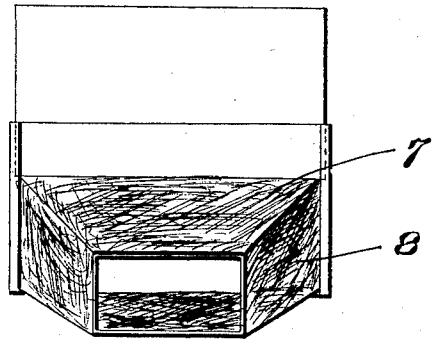


Fig. 2.

WITNESSES:
Elizabeth A. Jordan.
A. R. Walton.

INVENTOR.
Clark I. Bostwick
BY
Miles B. Stevens & Co
ATTORNEYS.

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

UNITED STATES PATENT OFFICE.

CLARK ISAAC BOSTWICK, OF DETROIT CITY, MINNESOTA.

LINING FOR GRAIN WAGONS OR TANKS.

SPECIFICATION forming part of Letters Patent No. 711,197, dated October 14, 1902.

Application filed May 9, 1902. Serial No. 106,554. (No model.)

To all whom it may concern:

Be it known that I, CLARK ISAAC BOSTWICK, a citizen of the United States, residing at Detroit City, in the county of Becker and State of Minnesota, have invented certain new and useful Improvements in Linings for Receptacles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to linings for receptacles, and particularly to cloth linings for grain wagons and tanks.

The object of the invention is to provide means for preventing the leakage of grain from such receptacles.

A further object is to so construct a lining as to prevent spilling the grain when the same is being unloaded or otherwise discharged.

Generally speaking, the invention comprises a cloth lining for the wagon or tank, which lining is provided at the discharge-opening with a tubular extension adapted when the grain is discharged to project into the receiving vessel and to guide the grain thereinto.

In the embodiment of the invention illustrated in the accompanying drawings, Figure 1 is a perspective view of the lining. Fig. 2 is a rear view of a wagon-box with the end-gate open and the lining therein.

Referring specifically to the drawings, the body of the lining is indicated at 6. This is made of a shape suitable to fit the interior of the wagon, tank, or other receptacle in which it is used. At the discharge end of the receptacle the lining has an opening preferably of the same shape and size as the gate or door to the wagon or tank, and to the contiguous edges of the body of the lining are sewed or otherwise secured an end piece 7 and side flaps 8.

Before the wagon or other receptacle is filled the end piece and flaps are folded upon each other, so as to cover and close the opening in the lining. When the gate or door is opened, the end piece and flaps of the lining are pulled out through the opening of the receptacle or forced out by the pressure of the grain and form a spout, which may be entered into the mouth of a receiving bag or vessel. The grain flows through such spout without danger of spilling at the sides, and the discharge of the grain can be stopped by contracting and closing the spout.

The device will be found very useful in storing, transporting, and delivering grain and similar material. It will close the cracks of a wagon or tank and also avoid lost or dirty grain incident to bagging or other deliveries.

What I claim is—

1. A flexible lining for receptacles, comprising a body having the shape of the receptacle and a tubular discharge extension projecting through the discharge-opening of the receptacle.

2. The combination with a grain-receptacle, of a cloth lining having a discharge extension projecting through the discharge-opening of the receptacle.

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

CLARK ISAAC BOSTWICK.

Witnesses:

JEFF. H. IRISH,

A. G. WEDGE, Jr.