Feb. 16, 1926. 1,573,694

A. ESPESETH

GRAIN PICKLER AND LOADER

Filed Feb. 21, 1924

Fig. 1.

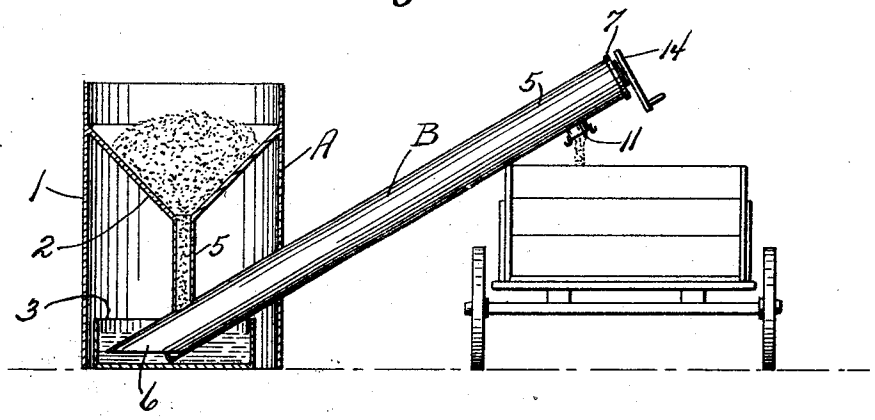



Fig. 2.

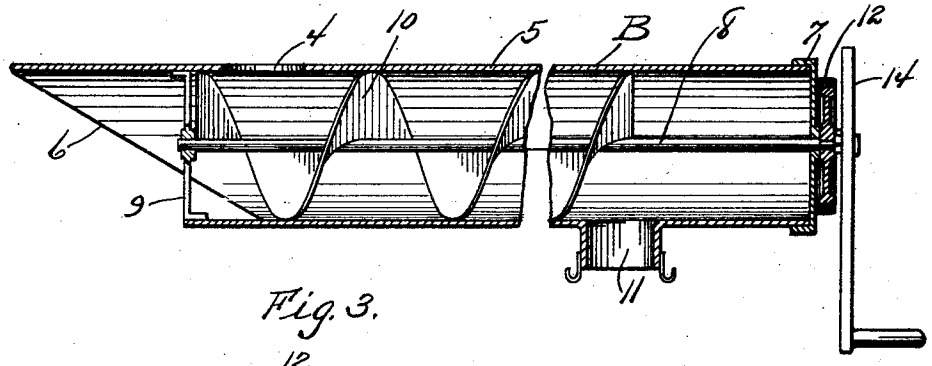
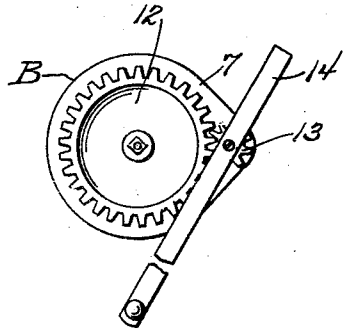



Fig. 3.




Inventor

Alfred Espeseth

WITNESSES

By Richard B. Owen

Attorney

Patented Feb. 16, 1926. 1,573,694

# UNITED STATES PATENT OFFICE.

ALFRED ESPESETH, OF PROSPY, ALBERTA, CANADA.

## GRAIN PICKLER AND LOADER.

Application filed February 21, 1924. Serial No. 694,404.

*To all whom it may concern:*

Be it known that I, ALFRED ESPESETH, a subject of the King of Great Britain, residing at Prospy, in the Province of Alberta and Dominion of Canada, have invented certain new and useful Improvements in Grain Picklers and Loaders, of which the following is a specification.

The present invention relates to a combined grain pickler and loader the parts of which may be used separately or in conjunction with each other.

The principal object of the invention is to provide a structure of this nature which may be used simultaneously for pickling grain and loading the same in a wagon or the like.

A still further object of the invention is to provide a device of this nature having a simple and efficient construction, one which is reliable in operation, comparatively inexpensive to manufacture, durable, and well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description progresses, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a view showing my device as used,

Figure 2 is a detail view showing the loader in longitudinal cross section, and

Figure 3 is an end elevation of the loader.

Referring to the drawing in detail it will be seen that the pickler is indicated generally by the letter A and the loader by the letter B. The pickler includes a casing 1 having a hopper 2 and a tub 3 disposed therein. The hopper 2 is attached adjacent the upper end within the casing 1 while the tub 3 is disposed at the bottom thereof. The loader B extends through the casing terminating in the tub and is provided with an opening 4 through which the nozzle 5 of the hopper 2 extends.

This loader B includes a cylindrical casing 5 having an open end 6 and a closed end 7. A shaft 8 is journaled in the closed end 1 and in a bracket 9 adjacent the open end 6, extending longitudinally through the casing 5 and provided with a spiral blade 10 forming an auger like structure. An outlet opening or spout 11 is provided in the casing 5 adjacent the closed end. A gear 12 is keyed to the end of the shaft 8 on the outside of the closed end 7 and is operable by a pinion 13 rotatable by a crank 14. As is seen in Figure 1 the loader B extends into the pickler at an oblique angle thereto so that the closed end is elevated and may be disposed over a wagon so that upon the rotation of the shaft 8 the contents of the pickler will be delivered to the wagon. The hopper will receive the grain while the tub 3 will have a formaline solution therein and the solution will be mixed with the grain as it is delivered up the loader.

It is evident that the loader may be used without the pickler if so desired for elevating grain or delivering the same from a storing place to a wagon for instance.

Although I have described my invention with a certain degree of particularity, it is evident that numerous changes in the details of construction and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed, or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. A grain treating mechanism comprising a casing, a liquid containing reservoir mounted in the lower end of the casing and an angularly disposed tube having one end extending through one side of the casing and projecting into the receptacle and provided with an opening adjacent its inner end, such inner end of the tube being disposed in close proximity to the bottom of the receptacle and having its under face cut away whereby an unrestricted inlet will be provided, and a grain receiving hopper supported in the casing, a discharge tube leading therefrom, and communicating with the opening in the first mentioned tube, and a conveyor means mounted in the first mentioned tube for conveying the grain to a point remote from the casing after the latter has passed into the lower end of such tube.

2. In combination, a pickler and a loader, said pickler including a casing having a hopper therein and a tub therein, said loader including a cylindrical casing extending obliquely through the casing of the

pickler so as to terminate in the tub disposed therein and provided with an opening for receiving the spout of the hopper, and delivering means in the casing of the loader.

3. In combination, a pickler and a loader, said pickler including a casing having a hopper therein and a tub therein, said loader including a cylindrical casing extending obliquely through the casing of the pickler so as to terminate in the tub disposed therein and provided with an opening for receiving the spout of the hopper, a shaft rotatable in the casing of the loader and provided with an auger blade thereon, said loader casing provided with an opening adjacent its upper end.

4. In combination, a casing, a hopper in the casing, a tub disposed below the hopper, a tube extending obliquely through the casing and terminating in an open end within the tub and provided with an opening for receiving the spout of the hopper and another opening adjacent its upper end, and delivery means provided within the tube all in the manner and for the purpose specified.

In testimony whereof I affix my signature.

ALFRED ESPESETH.