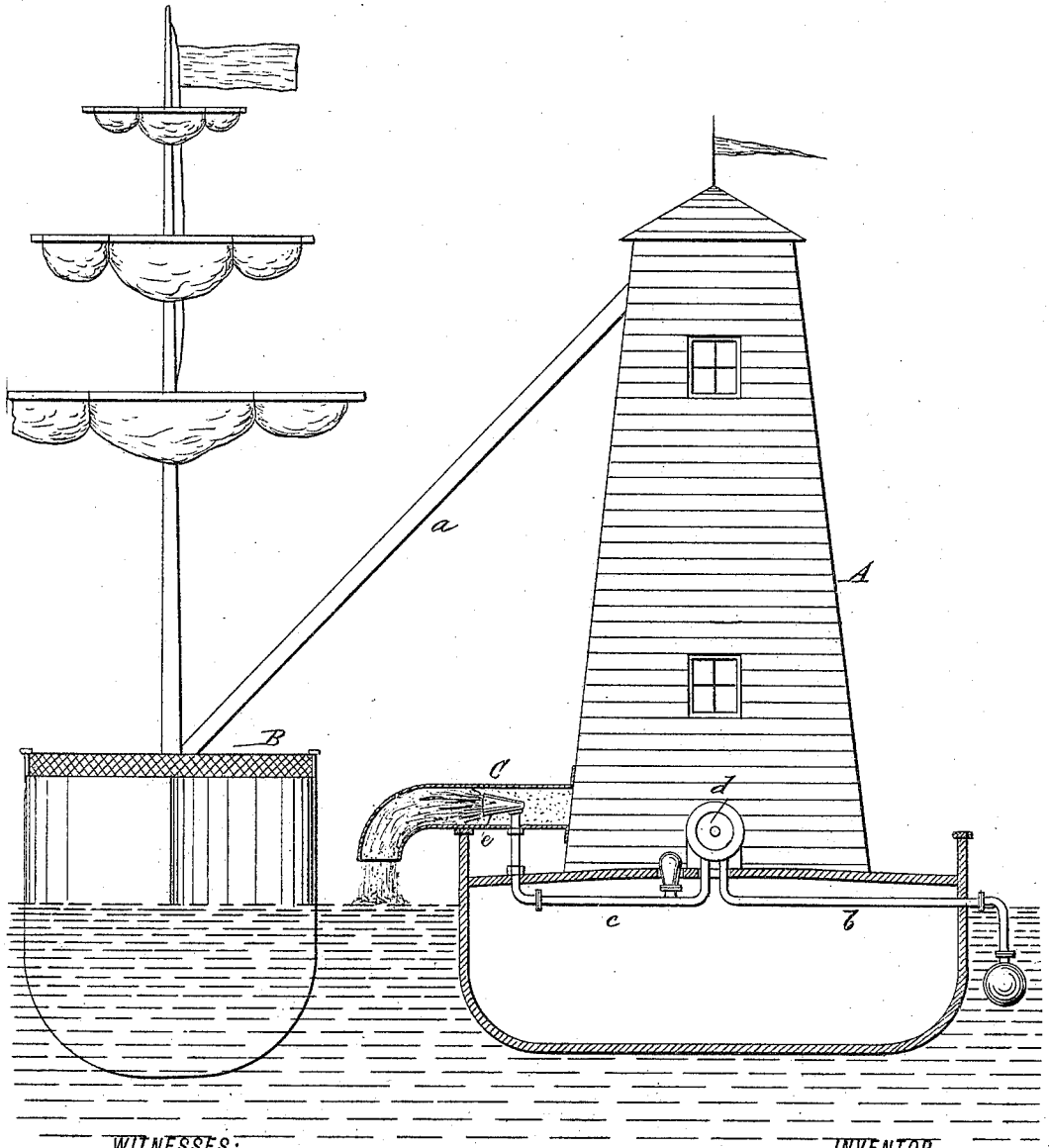
(No Model.)

F. WYNEKEN.

GRAIN ELEVATOR.

No. 430,558. Patented June 17, 1890.



WITNESSES:
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UNITED STATES PATENT OFFICE.

FREDERICK WYNEKEN, OF NEW YORK, N. Y.

GRAIN-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 430,558, dated June 17, 1890.

Application filed October 12, 1889. Serial No. 326,788. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK WYNEKEN, a citizen of the United States, residing at New York, in the county of New York, and State of New York, have invented certain new and useful Improvements in Grain-Elevators; and I do 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.

In transferring grain into a vessel by means of an elevator heretofore it has been a great inconvenience that the chaff, dust, and foreign matter in the grain driven out through the blow-bag of the elevator into the river was partly distributed in the air, whereby the outer wall of the vessel was soiled, the lighter particles of the dust entering the cabins of the vessel and making there the air moldy and noxious to the passengers and crew. This objection has been overcome by my invention, which has reference to improvements in grain-elevators, and has for its purpose to prevent the distribution of the chaff and dust driven out through the blow-bag of the elevator; and the invention consists of a suction-pipe and an outlet-pipe in combination with a pump, the outlet-pipe reaching into the blow-bag of the elevator and being provided with a spray-nozzle. By means of the pump water is drawn up through the suction-pipe and pressed through the outlet-pipe and the spray-nozzle into the blow-bag, where the chaff and dust are wetted and delivered as a slimy mass into the river.

The drawing which illustrates my invention shows a floating grain-elevator (hull and blow-bag in section) with a suction and an outlet pipe in combination with a pump, the outlet-pipe terminating in a spray-nozzle and reaching into the blow-bag, and a vessel in connection with the elevator.

A in the drawing represents a grain-elevator, and B a vessel, into which the grain from the elevator is transferred through the chute *a*.

C is the common blow-bag attached to the elevator, through which the dust and chaff separated from the grain are conducted to the outside and into the river. A suction-pipe *b* and a delivery or outlet pipe *c* are connected with a pump *d*. These pipes may be arranged underneath or above the deck of the elevator, as desired. The suction-pipe reaches with one end into the river, and the outlet-pipe *c* enters the blow-bag through a corresponding opening in the latter. The end of the outlet-pipe *c* is provided with a spray-nozzle *e*.

My improved grain-elevator operates as follows: The grain, before it is transferred from the elevator to the vessel, is pressed into a wind-spout, where it is met by a strong current of air caused by a fan. This is a well-known fact, and the arrangement is therefore not shown in the drawing. By this current of air all the chaff, dust, and foreign matter contained in the grain are driven out through the blow-bag C to the outside. The pump *d*, which may receive its motion from the engine of the elevator or a separate motor, draws water from the river through the suction-pipe *b* and presses the same through the outlet-pipe *c* and the spray-nozzle *e* into the blow-bag. There the dust and chaff are mixed with the water, which enters the blow-bag and leaves the latter in the form of a slimy mass. By this arrangement the distribution of the dust and chaff in the air and the flying off of the same are entirely prevented.

My improvement can be applied to floating grain-elevators as well as to stationary grain-elevators.

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

A grain-elevator having a suction-pipe and an outlet-pipe in connection with a pump, the outlet-pipe being provided with a spray-nozzle and reaching with the same into the blow-bag for delivering the dust and chaff separated from the grain, substantially as shown, and for the purpose described.

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

FREDERICK WYNEKEN.

Witnesses:
ALFRED GINSBERG,
CARL KARP.