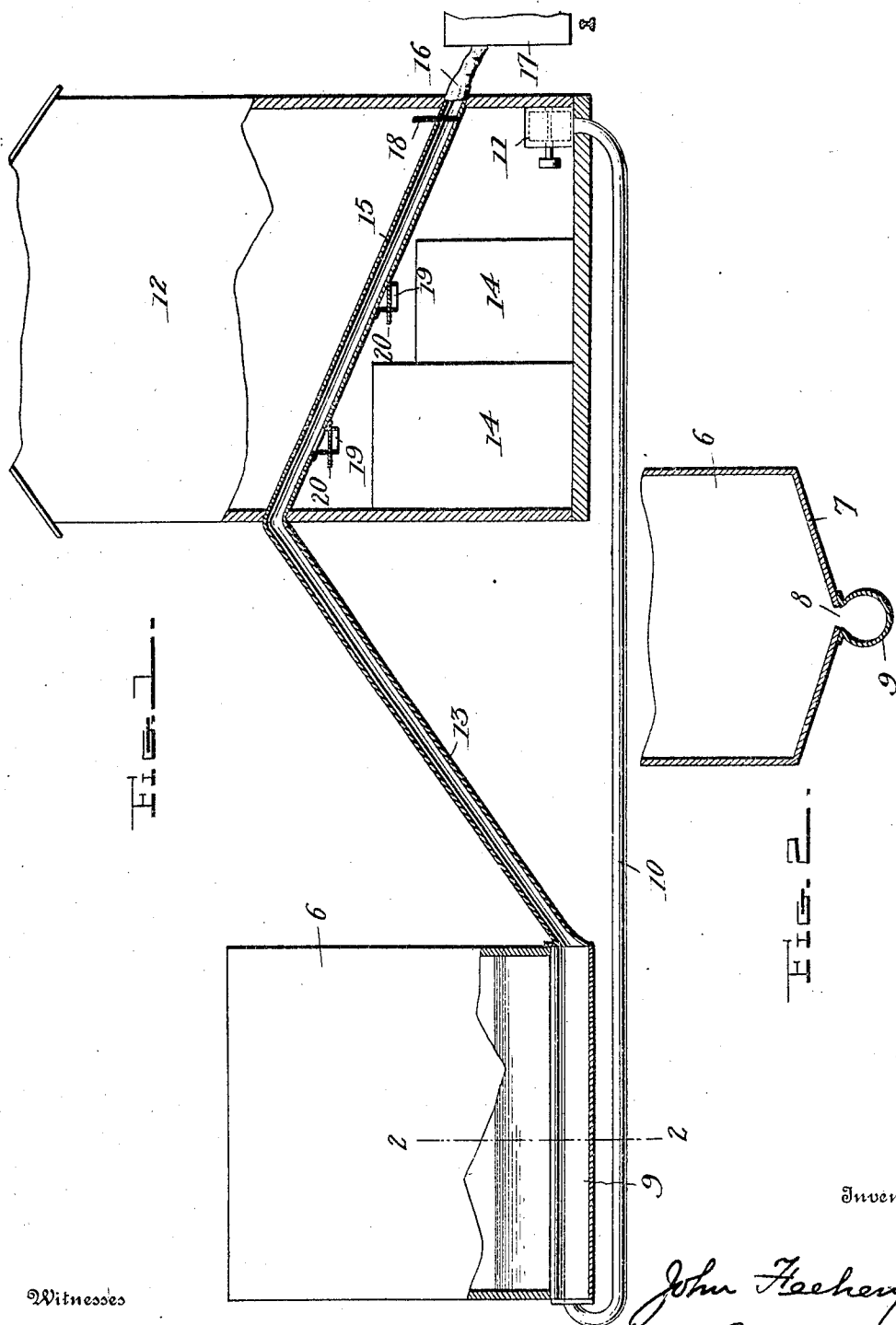


No. 856,456.

PATENTED JUNE 11, 1907.

J. FEEHERRY.
GRAIN CONVEYER.
APPLICATION FILED FEB. 16, 1907.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN FEEHERY, OF CAMPUS, ILLINOIS.

GRAIN-CONVEYER.

No. 856,456.

Specification of Letters Patent.

Patented June 11, 1907.

Application filed February 16, 1907. Serial No. 357,730.

To all whom it may concern:

Be it known that I, JOHN FEEHERY, a citizen of the United States, residing at Campus, in the county of Livingston and State of Illinois, have invented certain new and useful Improvements in Grain-Conveyers, of which the following is a specification.

This invention relates to means for conveying, transferring and loading grain from bins to elevators or cars, by pneumatic appliances.

The invention utilizes a blast of air to collect the grain from the bottom of a grain bin and convey the same into the elevator, from which it may be deposited in a bin or loaded in the car, and an especial feature are the means for collecting the grain in the bin, the air pressure or blast being supplied or applied behind the grain, instead of by suction.

An embodiment of the invention is illustrated in the accompanying drawings, in which

Figure 1 is a diagrammatic elevation, partly in section, of the apparatus. Fig. 2 is a section of the grain bin on the line 2--2 of Fig. 1.

Referring specifically to the drawings, 6 indicates a grain bin into which the grain may be deposited or dumped from wagons or otherwise when it is received at the elevator. At the bottom the bin has the form of a chute or hopper 7 which discharges through a slot 8 into a tube or pipe 9 which forms part of the conveyer tube or system. The tube 9 receives air in one end through a pipe 10 leading from the fan 11 conveniently located in the elevator building 12, and the said tube 9 is connected at its other end to a pipe 13 which is inclined upwardly to reach the elevator 12 at a sufficient height to discharge, if desired, into the bins 14 therein. The pipe is continued at a downward inclination, as indicated at 15, through the elevator building and ends in an adjustable nozzle 16 through which the grain may be deposited if desired into the car, as indicated at 17. The discharge is controlled by a slide 18, and the branch discharges 19, to the bins 14, are controlled by slides 20.

The air entering behind the grain which flows through the slot 8 into the tube 9 forces the said grain out of said tube and up through the pipe 13 into the elevator, whence it may be distributed in the bins of the elevator or loaded into cars.

The apparatus will be found very serviceable and convenient for receiving grain at an elevator and for transferring the same to the elevator bin or directly to cars. The outer bin 6 may be placed in position beside the elevator building and arranged to receive grain from wagons or the like, and in cases where it is necessary a very quick transfer can be made of grain from the bin to a car, without using the elevating or transfer devices of the elevator. Then by means of the blast and the adjustable nozzle 16 the grain can be evenly distributed in the car, without any shoveling, which is a decided improvement over the ordinary chute from which the grain has to be shoveled to the ends of the car.

I claim:

1. The combination with an elevator building having bins therein, of a grain-receiving bin located beside said building, an air pressure conveyer pipe leading from said latter bin upwardly into the building above the bins therein, and having discharge valves into said bins, and means to force air through said pipe.

2. The combination with an elevator building having bins therein, of a grain-receiving bin located beside said building, an air pressure conveyer pipe leading from said latter bin upwardly into the building and then downwardly over the bins and through the building and having a discharge nozzle at the end outside the building, and also having valved outlets into the bins in the building.

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

JOHN FEEHERY.

Witnesses:

J. V. REILLY,
PATRICK FALSEY.