

No. 606,885.

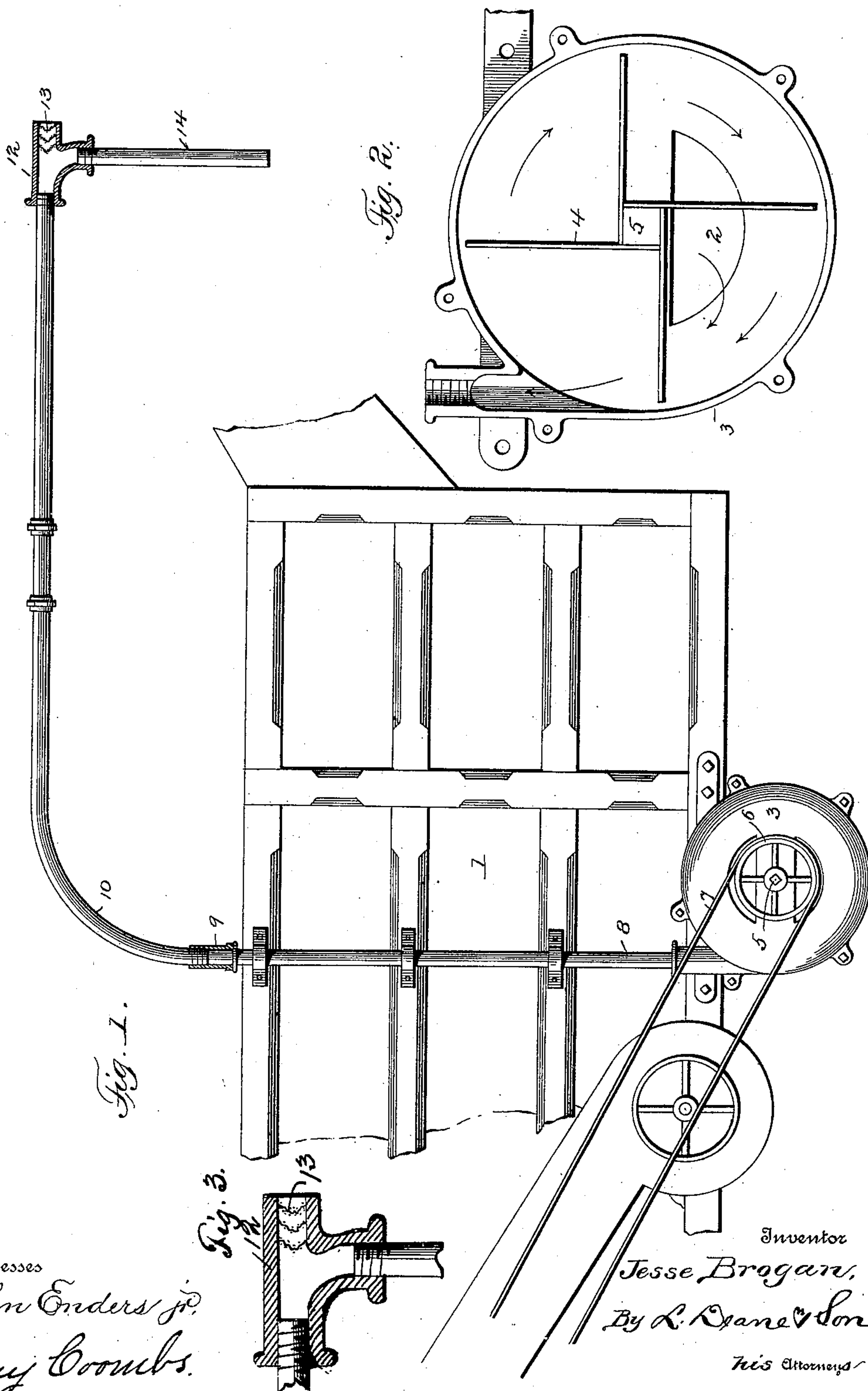
Patented July 5, 1898.

J. BROGAN.

PNEUMATIC GRAIN ELEVATOR.

(Application filed July 29, 1897.)

(No Model.)



Witnesses
John Enders Jr.
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UNITED STATES PATENT OFFICE.

JESSE BROGAN, OF MESERVEY, IOWA.

PNEUMATIC GRAIN-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 606,885, dated July 5, 1898.

Application filed July 29, 1897. Serial No. 646,385. (No model.)

To all whom it may concern:

Be it known that I, JESSE BROGAN, a citizen of the United States, residing at Meservey, in the county of Cerro Gordo and State of Iowa, have invented certain new and useful Improvements in Pneumatic Grain-Elevators; 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.

My invention relates to pneumatic grain-conveyers for threshing-machines; and its object is to provide an improved construction whereby the grain will be conveyed from the thresher to any convenient receptacle in a rapid and efficient manner.

The invention consists in the combination, with a threshing-machine, of a fan-casing communicating with the grain-discharge spout, and a fan operated from some moving part of the thresher, of the tube connected with the said casing and leading to some convenient point and provided near its free end with a tube, in which are located a series of conical screws, as hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a threshing-machine with my improvements applied thereto. Fig. 2 is a sectional view of the fan and casing on an enlarged scale. Fig. 3 is a detail view, on an enlarged scale, of the elbow.

In the said drawings the reference-numeral 1 designates a threshing-machine of any suitable or ordinary construction and provided with the usual discharge-spout. (Not shown.) Located in front of said spout and communicating therewith through an opening 2 is a fan-casing 3, provided with a fan 4, the shaft 5 of which is provided with a pulley 6. Passing around said pulley is a belt 7, driven from any convenient moving part of the thresher, for operating the fan. Connected with said

casing is a vertical pipe 8, secured to the thresher, provided at its upper end with a coupling 9, in which is swiveled a curved pipe 10, provided with a horizontal extension, to the outer end of which is secured a three-way elbow 12. The portion of said elbow opposite and parallel to the said extension is open to the atmosphere, and located therein are a number of conical screens 13, of wire-gauze or other similar material. A discharge-pipe 14 is connected with the vertical portion of the elbow.

The operation will be readily understood. The fan is set in motion, and the grain from the discharge-pipe will be drawn into the fan-casing and from thence up through the vertical and curved pipes and out through the discharge-pipe. The conical screws serve to relieve the air-pressure, yet prevent the grain from escaping therethrough. By swiveling the curved pipe to the vertical pipe the discharge-pipe may be swung to either side of the thresher.

Having thus fully described my invention, what I claim is—

An attachment for a thresher, comprising the fan-casing, the fan and means for operating the same, the vertical pipe connected with the fan-casing, the coupling at the upper end thereof, the curved pipe swiveled to said coupling, the extension, the three-way elbow secured to the outer end of said extension, a portion of which is open to the atmosphere, the conical wire-gauze screens located therein, and the discharge-pipe secured to the vertical portion of the elbow, substantially as described.

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

JESSE BROGAN.

Witnesses:

JOHN QUENDT,
F. R. HOPLEY.