

W. F. MacGREGOR.
PNEUMATIC STACKER.
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997,307.

Patented July 11, 1911.

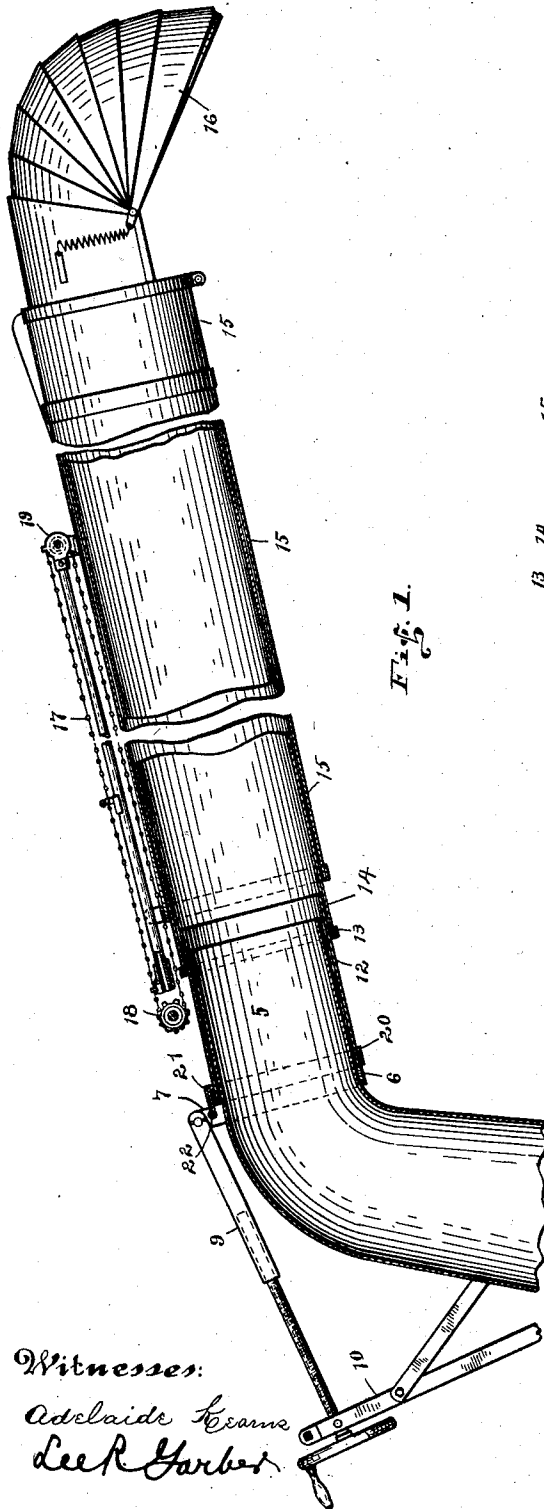


Fig. 1.

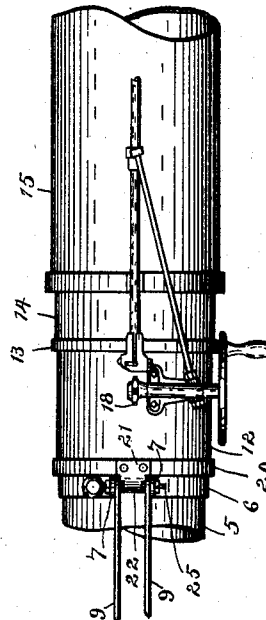


Fig. 2.

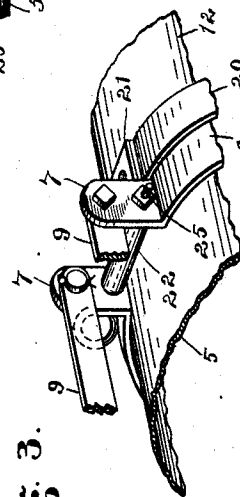


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

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PNEUMATIC STACKER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WALLACE F. MACGREGOR, a citizen of the United States, residing at Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Pneumatic Stackers, of which the following is a specification.

In operating threshing and similar separating machines in barns or other comparatively small inclosures, the pneumatic stacker chute is usually projected rearwardly from the machine, and because of limited space the chute cannot be readily swung around horizontally to discharge material in different directions, or to its normal resting position above the machine, without moving the latter to a point where sufficient space is available to swing said chute.

The object of my invention is to provide a stacker chute which may be readily detached from its rotatable elbow, so that the latter may be turned in the desired direction, and the chute then attached thereto, or placed on top of the machine until further use, or which when it becomes choked, as sometimes occurs, can be quickly detached and placed in upright position and the material thus caused to fall or be shaken therefrom, which is of material advantage, as such simple process obviates the necessity of using a long pole for removing the clogged material, which is a common and slow process where most types of non-detachable chutes are used.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation, partially in section, of a pneumatic stacker chute (and associated parts) embodying my improvement; Fig. 2, a fragmentary plan; and Fig. 3 is a detail view on an enlarged scale.

In said drawings the portions marked 5 represent the tapered elbow which I employ, which is rotatably mounted upon the separating machine, as is common, and which is provided with a band, 6, the ends whereof constitute ears, 7, to which are attached parts, 9, of the raising and lowering mechanism, 10.

The stacker chute is composed of a short inner section, 12, to which is secured, by a suitable band, 13, or otherwise, the main chute section, 14, over which the outer section, 15, is telescopically mounted, as usual, the latter being provided with a deflector, 16. As indicated, the telescoping section is operable by a chain, 17, and sprockets, 18, 19, associated therewith and with the main chute section 14, in a well known manner. While I have shown and described a telescopic stacker chute, it will be readily understood, of course, that my invention is applicable to a non-telescopic chute.

At its inner end chute section 12 is provided with a band 20, embodying or provided with a clip, 21, having its end extended and turned to form a tubular bolt retainer, 22. The chute as a whole is telescoped over the tapered elbow 5 in such manner that clip 21 will lie between the ears 7 of the elbow band so that its bolt retainer 22 will fit between said ears and register with openings therein. The chute is then secured to the elbow by inserting a bolt or pin, 25, through the ears and said clip, by which arrangement said chute is rigidly secured in position, and is prevented from turning on the elbow by means of the ears between which the tubular portion of the clip is held. As will be readily understood, by withdrawing bolt 25 the chute structure becomes disconnected from the elbow and can be readily removed and replaced for the purposes hereinbefore set forth.

I claim as my invention:

1. The combination, in a pneumatic stacker chute, of an elbow tapering toward its outer end, a chute section mounted thereon and projecting therefrom, a band on said elbow, ears associated with said band, a band on said chute section, a clip connected to said last-mentioned band and embodying a tubular extension adapted to be positioned between said ears, and means for detachably securing said clip to said ears.

2. The combination, in a pneumatic stacker, of an elbow tapering toward its outer end, a chute section mounted thereon and projecting therefrom, a band on said elbow, ears associated with said band, chute-

elevating mechanism connected to said ears,
a clip connected to said chute section and
embodying a tubular extension adapted to
be positioned between said ears, and a bolt
5 connecting said ears and clip for detachably
securing said elbow and chute section to-
gether.

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

WALLACE F. MacGREGOR.

Witnesses:

A. B. THOMPSON,
W. F. SAWYER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."