J. B. BLESSING.

CONVEYER FOR UNLOADING COTTON OR THE LIKE.

APPLICATION FILED FEB. 9, 1914.

1,110,104. Patented Sept. 8, 1914.

Fig. 1.

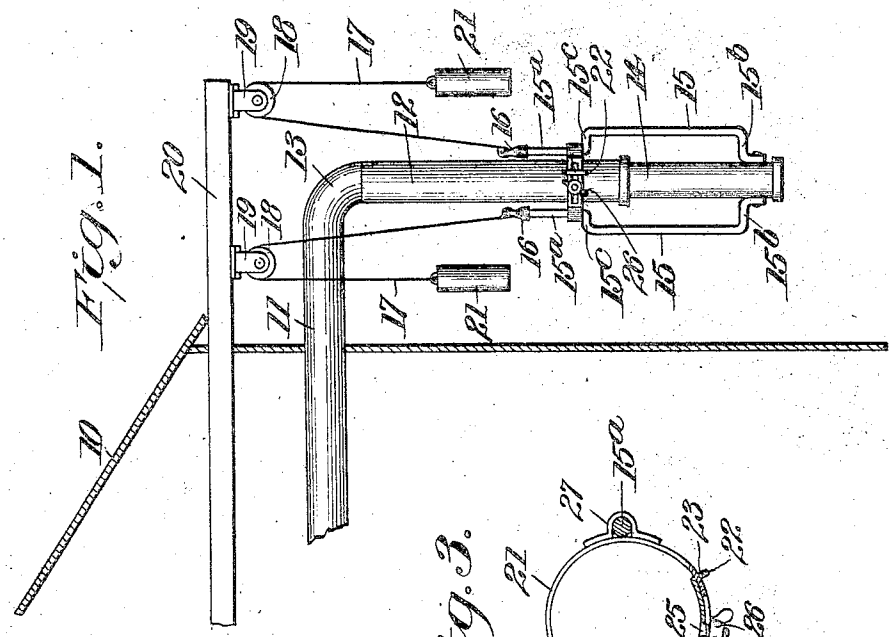
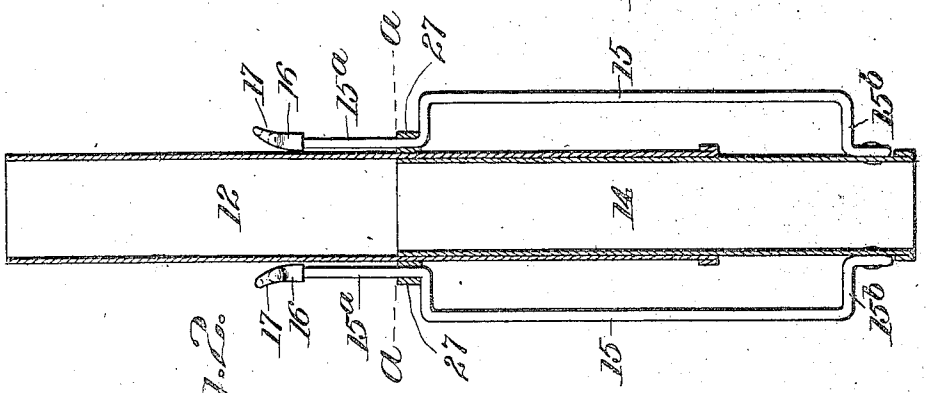


Fig. 3.

Fig. 2.



Witnesses

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CONVEYER FOR UNLOADING COTTON OR THE LIKE.

1,110,104. Specification of Letters Patent. Patented Sept. 8, 1914.

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To all whom it may concern:

Be it known that I, JOHN B. BLESSING, a citizen of the United States, residing at Randlett, in the county of Caddo and State of Oklahoma, have invented certain new and useful Improvements in Conveyers for Unloading Cotton or the like, of which the following is a specification.

This invention relates to conveyers for unloading cotton or the like.

One object is to provide a pneumatic conveyer particularly adapted to readily, conveniently and expeditiously take cotton from a vehicle, platform or other place and carry or convey the same through the conveyer and deposit it on a gin stand or other place for ginning purposes.

Another object resides in the provision of an adjustable extension for the suction pipe of a pneumatic conveyer tube with means associated therewith so that the extension may be adjusted and firmly held in adjusted position according to the level of the cotton on the body of the vehicle platform or the like.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings and particularly pointed out in the appended claims, it being understood that changes may be made in the form, proportion, size and minor details without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings: Figure 1 is a fragmentary view of a gin mill platform or place where the ginning operation is performed, illustrating my invention in elevation. Fig. 2 is a longitudinal sectional view through the conveyer tube and my extension therefor. Fig. 3 is a horizontal sectional view on the line *a*—*a* of Fig. 2.

Referring now more particularly to the accompanying drawings, the reference character 10 indicates a gin mill housing into or through which may extend the usual suction or conveyer tube 11 provided with a downwardly extending sleeve 12 which may be permanently secured to the elbow 13 or adjustably telescope therewith, its lower end being preferably beaded as illustrated.

Adapted to telescope with the downwardly extending portion or sleeve 12 of the conveyer or suction tube 11 is a telescoping sleeve 14 which is adapted to telescope with the aforesaid sleeve 12 and which at its outer end is preferably beaded as shown.

Arms 15 are secured to the outer end of the telescoping sleeve 14. These arms 15 are preferably deflected inwardly at their upper and lower ends as at 15^a and 15^b, respectively, with the deflected inner ends 15^b preferably firmly secured at their lower ends in any suitable manner to the outer end of the telescoping sleeve 14. By virtue of deflecting the upper ends of the arms 15 inwardly the arms 15 are provided adjacent their upper ends with shoulders 15^c for a purpose presently explained.

The deflection of the opposite ends of the arms 15, as stated, results in the intermediate portions of the arms 15 being spaced from the telescoping extension 14 and sleeve 12 to such an extent as to provide handles for the manipulation of the telescoping sleeve 14, if desired.

The upper ends of the deflected portions 15^a of the arms 15 are preferably screw threaded so that screw threaded nuts 16 may be detachably secured thereto and these nuts are preferably provided with eyes 17 adapted to receive one end of the cables 17 which operate over pulleys or sleeves 18 mounted in suitable hangers 19 secured in any suitable manner to the bracket or beam 20 projecting from the housing 10. The opposite ends of these cables 17 are connected to weights 21 by virtue of which there is a normal tendency of the telescoping extension 14 being drawn inwardly with relation to the sleeve 12.

To hold the telescoping extension 14 in adjusted positions against the action of the weights 21 there is preferably provided a band 22 one end of which is provided with a slot 23 for the reception of the opposite end of the band 21 which opposite end is preferably slotted as at 24 and through which slot 24 there projects a screw threaded stud 25 carried by the band 21 and with which coöperates a thumb nut 26 to clamp the ends of the band 21 together. This band is adapted to rest on the shoulders 15^c of the arms 15 and it is provided with oppositely disposed eyes 27 adapted to slide on the deflected portions 15^a of the arms 15. The nuts 16 are of course removed from the ends of the deflected portions 15^a of the

arms 15 so that the band 21 may rest on the shoulders 15ª. After the band has been thus positioned the nuts 16 are connected with the arms 15 as shown in Fig. 1.

The arms 15 extend upwardly beyond the outer end of the sleeve 12 and the band 21, it will be noted, is adapted to be clamped to the sleeve 12 and when clamped thereto it holds the telescoping section 14 in various adjusted positions according to the position which is necessary or desired to support or suspend the same. If the nut 26 should loosen the weights 21 would tend to lift the telescoping section 14 inwardly with relation to the sleeve 12. Therefore, in the event of accidental loosening of the nut 26, the sleeve 14 will be drawn inwardly and not permitted to drop away from the sleeve 12. If it be desired to adjust the sleeve 12 with relation to the sleeve 14 it is simply necessary to loosen the nut 26 when the handle portions of the arms 15 may be grasped and the sleeve 14 be adjusted against the action of the weights 21 and when adjusted to proper position, the proper turning of the nut 26 will hold the telescoping sleeve in the desired position with relation to the sleeve 12.

What is claimed is:

1. The combination of a suction tube of a gin mill or the like including a downwardly directed portion, a telescoping sleeve connected with the downwardly extending portion of said tube, arms connected with the telescoping sleeve adjacent the outer end of the latter and extending upwardly adjacent the downwardly directed portion of the tube and at their upper ends deflected inwardly toward said downwardly directed portion of the tube to provide shoulders and at their extremities having eyes, a band provided with eyes so that it may slide longitudinally of said deflected portions of said arms and rest on said shoulders, means to adjustably clamp the band on the first-named sleeve and thereby hold the extension sleeve in adjustable relation to the first-named sleeve, and means to draw the sleeve inwardly with relation to the downwardly directed portion of the tube upon loosening of said fastening means of the band.

2. The combination of a suction tube of a gin mill or the like, including an elbow, a telescoping sleeve connected with the elbow of said sleeve, an extension sleeve telescoping with the aforesaid sleeve, arms connected with the extension sleeve adjacent the outer end of the latter and extending upwardly adjacent the first named sleeve and at their upper ends deflected inwardly toward the first named sleeve to provide shoulders, a band provided with eyes so that the band may slide longitudinally on the deflected portions of said arms and rest on said shoulders, means to adjustably clamp the band on said first-named sleeve and thereby hold the extension sleeve in adjustable relation to the first-named sleeve, and means connected to said deflected portions of said arms to draw the supplemental sleeve inwardly with relation to the first named sleeve upon loosening of the fastening means.

3. The combination of a suction tube of a gin mill having a downwardly directed sleeve, a telescoping sleeve extension connected with the aforesaid sleeve, a plurality of arms connected to the extension sleeve and having shoulders at their inner ends, a band embracing said first-mentioned sleeve and having eyes in which said arms above their shoulders are adapted to slide, said eyes forming shoulders adapted to coöperate with the shoulders of the arms, means for fastening the band in fixed position on the first mentioned sleeve, and means connected to said arms to draw the supplemental sleeve inwardly with relation to the first-named sleeve upon loosening of the fastening means.

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

JOHN BELDEN BLESSING.

Witnesses:
W. DANIEL,
W. A. DAVIS.