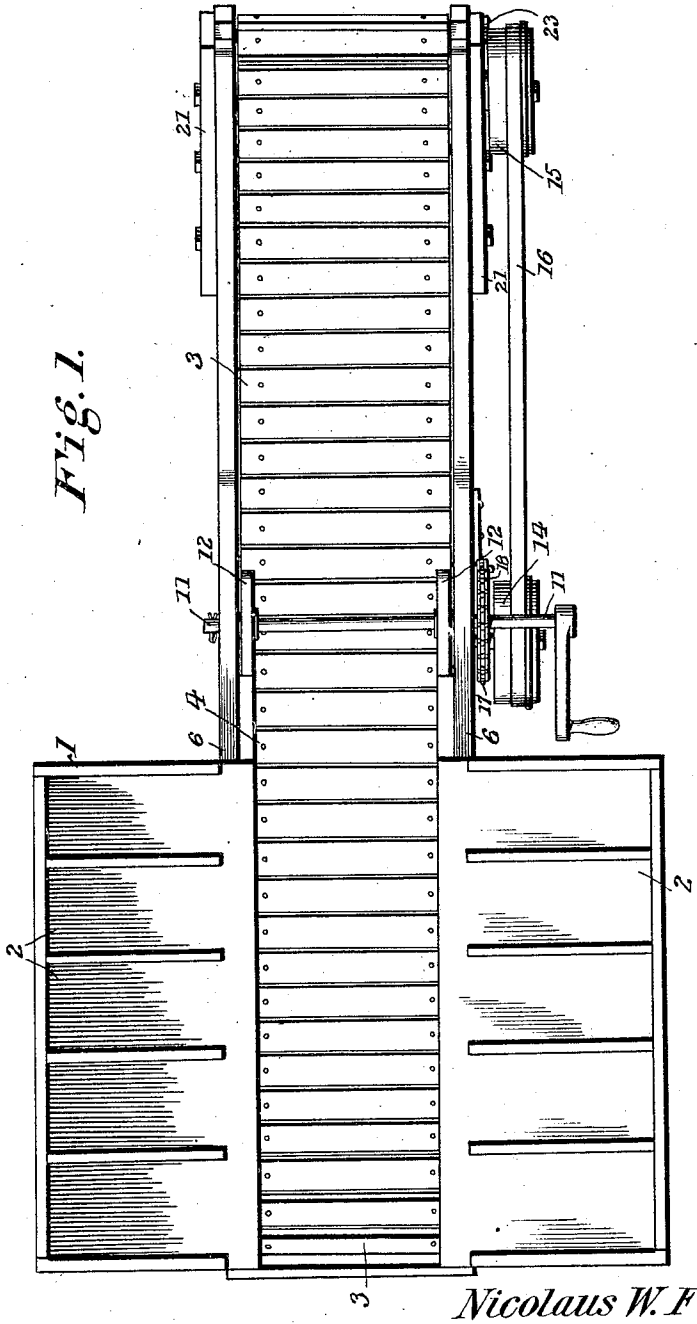
July 17, 1923. 1,462,272

N. W. FABECK

LOADING DEVICE

Filed May 5, 1921 3 Sheets-Sheet 1

Fig. 1.



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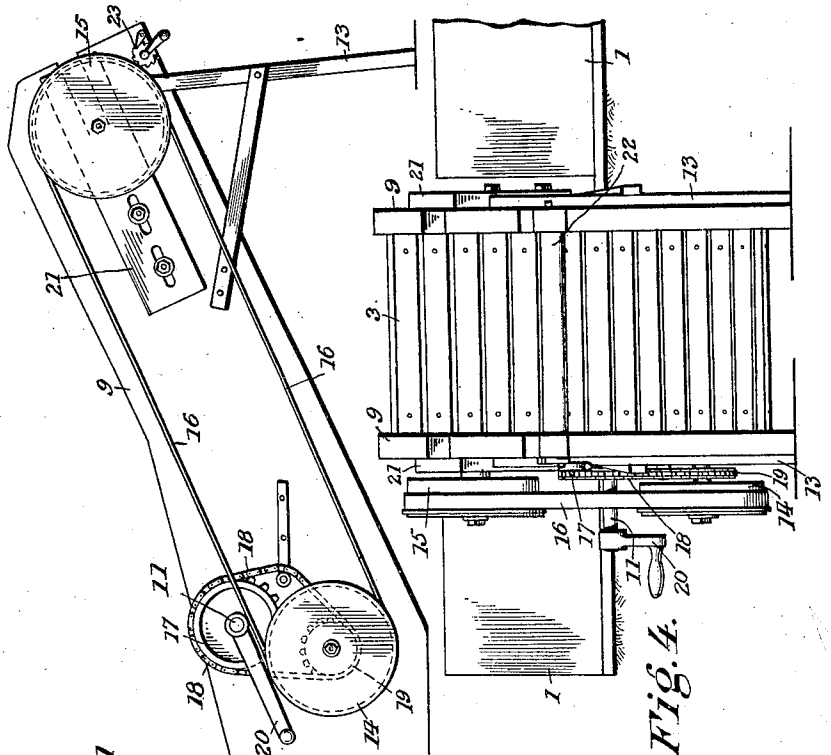


Fig. 4.

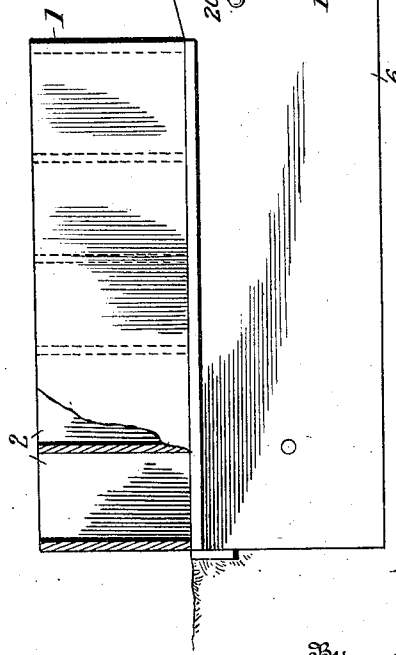


Fig. 2.

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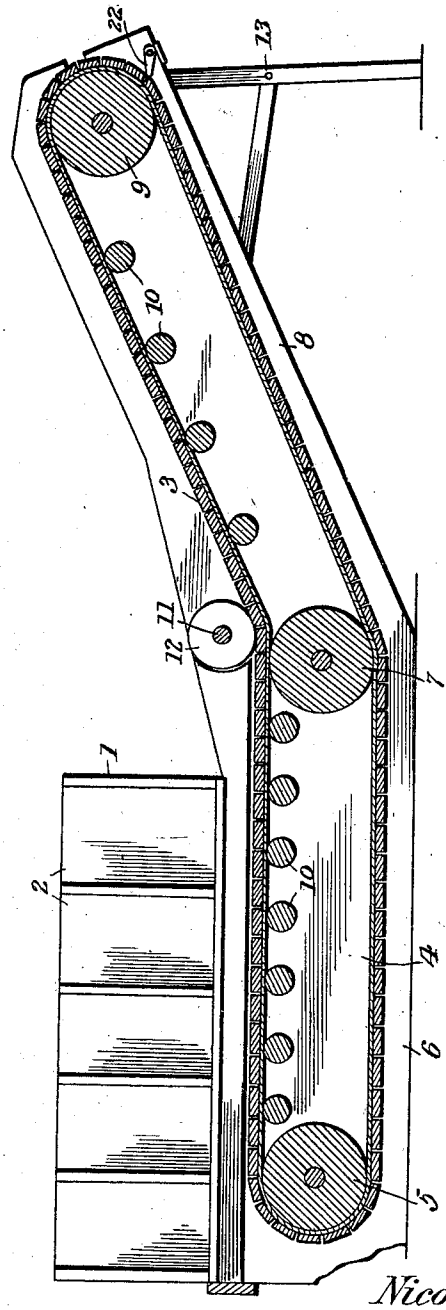


Fig. 3.

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UNITED STATES PATENT OFFICE.

NICOLAUS W. FABECK, OF FREEPORT, MINNESOTA.

LOADING DEVICE.

Application filed May 5, 1921. Serial No. 466,985.

To all whom it may concern:

Be it known that I, NICOLAUS W. FABECK, a citizen of the United States, residing at Freeport, in the county of Stearns and State of Minnesota, have invented certain new and useful Improvements in Loading Devices, of which the following is a specification.

This invention relates to new and useful improvements in loading devices and more particularly to a manure loader, and the primary object of the invention is to provide a device of this character adapted for incorporation in connection with a barn or stable, whereby the manure may be readily conveyed from said barn or stable to a point distant therefrom to be carried to any point desired.

Still another object of the invention resides in providing an endless carrier, a portion of which is adapted to form the floor of a stable or barn, wherein the device is applied to use, and means for manually actuating the endless carrier whereby the manure may be conveyed from the barn or stable to a point distant therefrom.

A still further object resides in providing a roller over which one end of the conveyer is disposed, said roller being adjustable longitudinally of the device to take up slack in the carrier.

Another object of the invention resides in providing an adjustable scraping member in connection with the endless carrier.

A still further object resides in providing frictional rollers which bear directly on the outer face of the carrier to keep the latter in place at an angular portion thereof, said frictional rollers tending to assist in the movement of the carrier when the latter is operated, as well as retaining said carrier in position.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to, and more particularly pointed out in the specification and claims.

In the accompanying drawings forming a part of this application,—

Figure 1 is a plan view of my improved loader;

Fig. 2 is a side elevation thereof with parts in section.

Fig. 3 is a longitudinal section through the same; and

Fig. 4 is an end elevation thereof.

In describing the invention I shall refer to the drawings in which similar reference characters designate corresponding parts throughout the several views, and in which 1 designates a barn or stable in which are provided a plurality of stalls 2. My improved apparatus is designed to be used in connection with the floor of this barn or stable so as to have a portion thereof disposed between the series of stalls on each side of said barn or stable, thereby providing a means for receiving the manure and further providing for its removal. To this end I provide an endless carrier designated in the drawings as 3, which consists of a flexible strip and a plurality of transverse slats secured thereto. The carrier has a horizontal portion, designated as 4, which when properly disposed within the stable or barn constitutes the flooring between the rows or series of stalls, as clearly indicated in Fig. 1 of the drawings.

A roller 5 is rotatably mounted in the barn at one end thereof over which this carrier is disposed, or said roller may be carried between two longitudinal side pieces 6 constituting a portion of this loader when the latter is merely inserted in place in the barn or stable. An additional roller 7 is provided and the side pieces 6 are disposed upwardly at a point beyond the barn or stable, as designated at 8 whereby between the outer ends of the upwardly disposed portion 8 is held an additional roller 9 over which the carrier is disposed. Rotatably disposed between the side pieces of the loader are a plurality of supporting rollers 10, which support the upper portion of the carrier, and a rotatable shaft 11 supported between the side pieces 8 carries a pair of rollers 12 which act as frictional rollers, it being understood that these rollers 12 are loosely mounted on the shaft 11, retaining the upper portion of the carrier in contact with the roller 7, as clearly shown in Fig. 3 of the drawings. The outer end of the device which is disposed upwardly with respect to the horizontal section thereof is supported by the arms 13.

Thus, it will be seen that I have provided a frame section within which is disposed

an endless carrier, a section of which forms the flooring of a barn or stable, and the other section of which extends upwardly therefrom to a point where the contents of the carrier may be dumped to a wagon or truck at a point beyond the stable or barn.

The loosely mounted rollers 12 it will be seen are positioned at a point where the carrier is inclined upwardly, so as to retain the upper portion of the carrier at all times in contact with the roller 7, and said rollers 12 also constitute frictional rollers which assist in the movement of said carrier when it is operated.

The shafts upon which the rollers 7 and 9 are carried extend beyond the side frame of the loader and carry pulleys 14 and 15 respectively, over which is disposed an endless driving belt 16. Carried on the shaft 11 is a sprocket 17 over which is disposed a chain 18. An additional sprocket 19 is carried on the shaft of the pulley 14, over which this chain is also disposed. A crank handle 20 is provided on the shaft 11 whereby said shaft may be manually rotated and from the connections therewith, as hereabove described and shown in the drawings, the rollers over which the carrier is disposed will be rotated to cause said carrier to be operated. Thus, the manure emptied upon the horizontal section of said carrier within the barn or stable may be conveyed outwardly and upwardly to be unloaded onto any desired container, such as a wagon or truck, (not shown) just beyond the outer end of the device. The rollers 12 while retaining the conveyers in place will also tend to operate the same in view of the frictional contact with the slats of the carrier.

In order to compensate for slack in the carrier to or for any other purpose desired, the roller 9 is carried between a pair of strips 21 at the outer ends of the frame of the loader, which strips are adjustably supported in place so as to be moved longitudinally of the device, as clearly shown in Fig. 2 of the drawings.

In order to remove all manure from the slats of the conveyer as it is operated, I provide a scraper 22 which is pivotally supported between the side pieces of the frame just below the roller 9. This scraper may be disposed in contact with the surface of the slats and held in place by means of a pawl and ratchet connection 23.

From the foregoing description of the construction of my improved device, the operation thereof will be readily understood, and it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of the invention.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in the form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

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

1. A manure loader comprising a frame, a portion of which is angularly disposed, rollers at the ends thereof, the roller at one end of said frame being adjustably supported in place, an additional roller intermediate of the aforesaid rollers, an endless carried disposed over said rollers, a plurality of smaller rollers in said frame supporting the upper strip of the carrier, means for retaining the upper strip of the carrier in contact with said additional roller, means for manually rotating said carrier, and an adjustable scraping member adapted for contact with the lower strip of the carrier below the adjustable roller.

2. A manure loader comprising a frame, a portion of which is angularly disposed, a pair of rollers mounted in the ends thereof, one of said rollers being adjustably supported in place, an intermediate roller carried in said frame, an endless carrier disposed over said rollers, a plurality of smaller rollers carried in the frame to support the upper strip of the carrier therein, a pair of frictional rollers supported in the frame and retaining the upper strip of the carrier in contact with the intermediate roller, means in connection with said intermediate roller for manually actuating the carrier, and an adjustable scraping member carried in the frame for contact with the lower strip of the carrier below the adjustable roller.

3. A manure loader comprising a frame, a portion of which is angularly disposed, a pair of rollers mounted in the ends thereof, one of said rollers being adjustably supported in place, an intermediate roller carried in said frame, an endless carrier disposed over said rollers, a plurality of smaller rollers carried in the frame to support the upper strip of the carrier therein, a shaft transversely supported in said frame directly over said intermediate roller, rollers loosely carried by said shaft and adapted to retain the upper strip of the carrier in contact with the intermediate roller, means for actuating said carrier, and a scraper element mounted in said frame for contact with the lower strip of the carrier below the adjustable roller.

4. A manure loader comprising a frame, a portion of which is angularly disposed, a pair of rollers mounted in the ends thereof, one of said rollers being adjustably supported in place, an intermediate roller carried in said frame, the shaft carrying said intermediate roller and said adjustable

roller extending beyond said frame, pulley wheels mounted on said extension, a belt traveling thereover, an endless carrier disposed over said rollers, a plurality of lower rollers carried in the frame to support the upper strip of the carrier therein, a shaft transversely supported in said frame directly over said intermediate roller, rollers loosely carried by said shaft and adapted to retain the upper strip of the carrier in contact with the intermediate roller, means in connection with said intermediate roller for actuating the carrier, and an adjustable scraping member carried in the frame for contact with the lower strip of the carrier below the adjustable roller.

In testimony whereof I affix my signature.

NICOLAUS W. FABECK