H. GANONG.

LOADER.

APPLICATION FILED SEPT. 5, 1908.

910,368.

Patented Jan. 19, 1909.

2 SHEETS—SHEET 1.

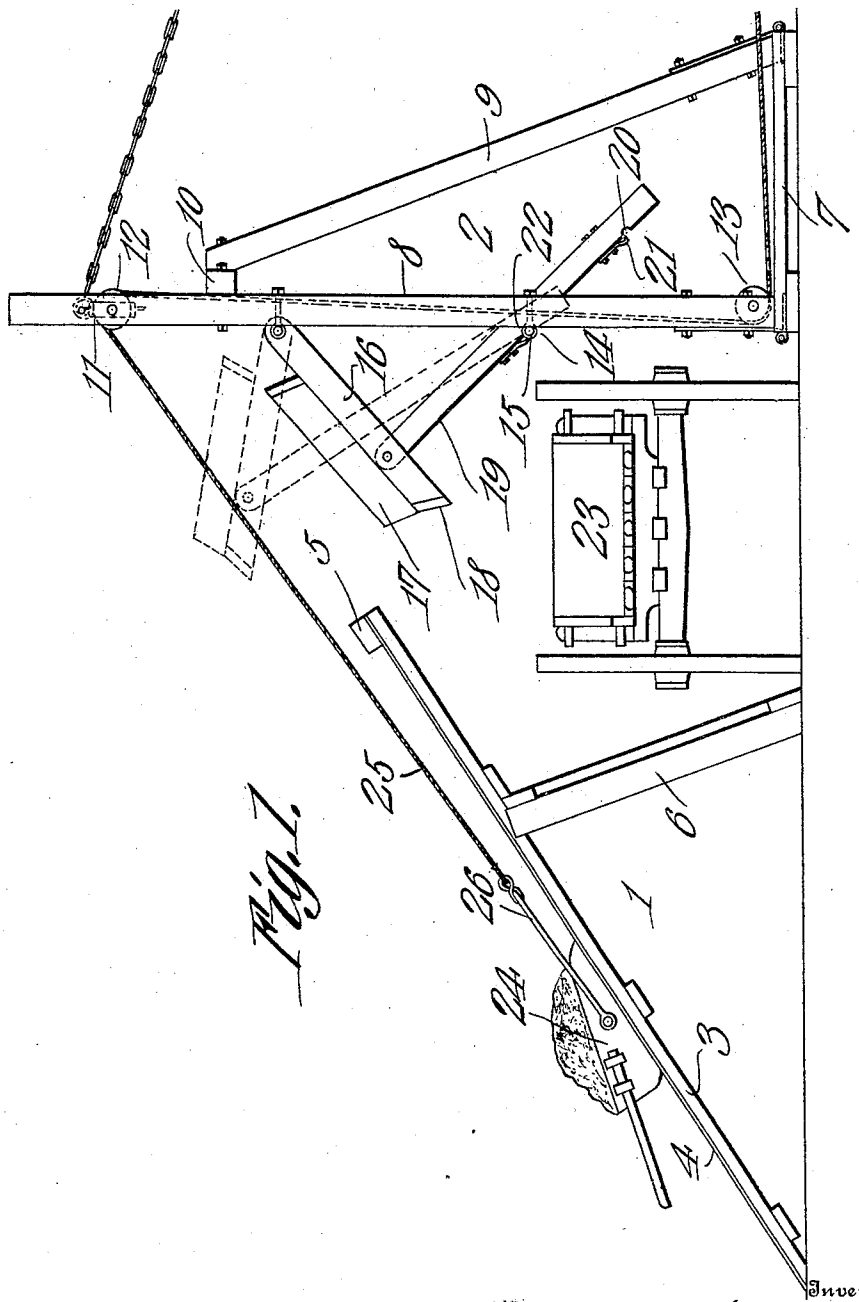


Fig. 1.

Witnesses

E. F. Hollenbeck

C. E. Preinkert

Inventor

Harvey Ganong.

By C. A. Snow & Co.

Attorneys

THE NORRIS PETERS CO., WASHINGTON, D. C.

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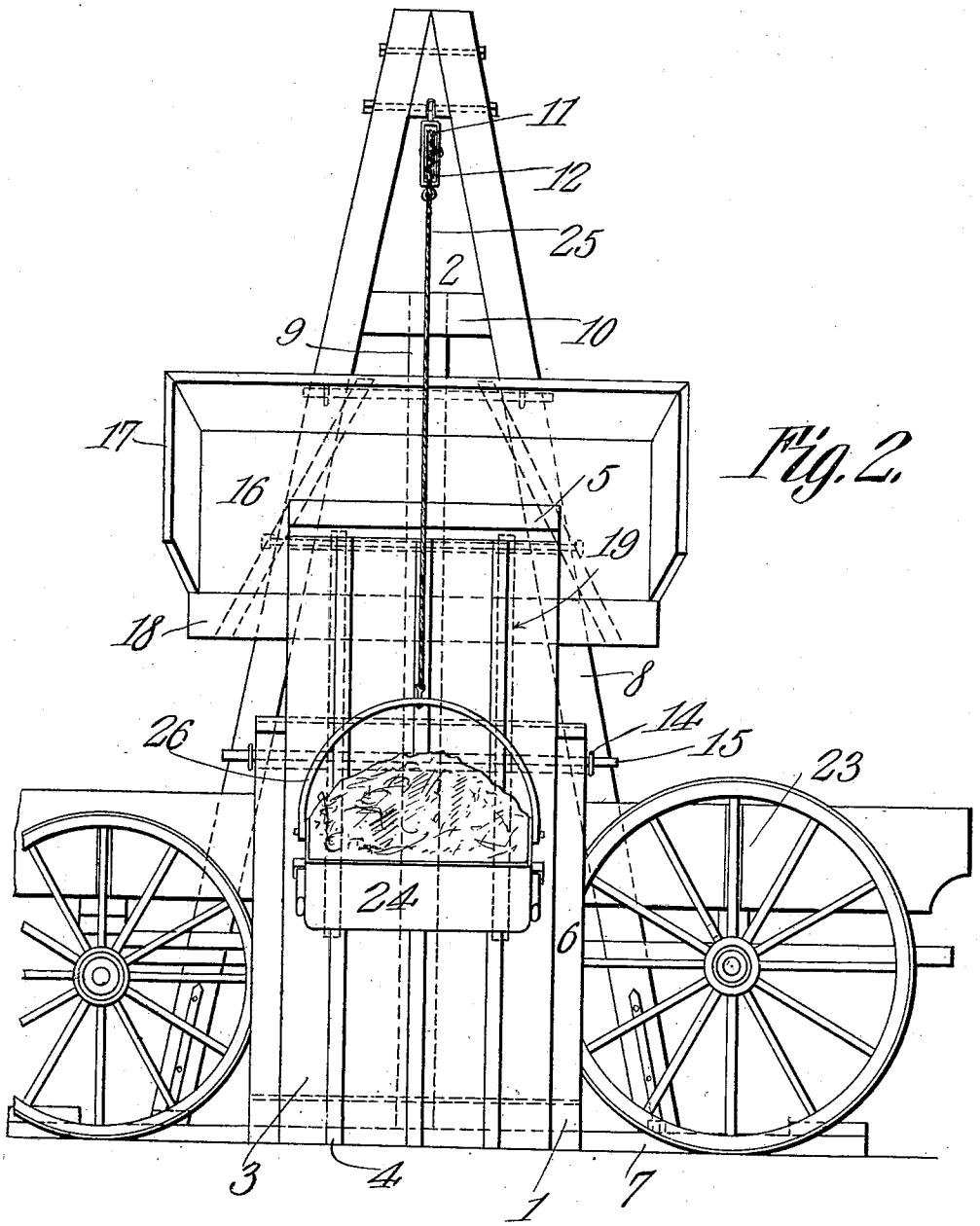


Fig. 2.

Witnesses

E. F. Wetherbee

C. E. Preinkert

Inventor

Harvey Ganong.

By C. A. Snow & Co.

Attorneys

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HARVEY GANONG, OF WHEATON, WISCONSIN.

LOADER.

No. 910,368. Specification of Letters Patent. Patented Jan. 19, 1909.

Application filed September 5, 1908. Serial No. 451,794.

To all whom it may concern:

Be it known that I, HARVEY GANONG, a citizen of the United States, residing at Wheaton, in the county of Chippewa and State of Wisconsin, have invented a new and useful Loader, of which the following is a specification.

This invention has relation to loaders adapted to be used for loading gravel, manure and the like upon wagons or into receptacles, and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a loader of the character indicated which consists primarily of a skid and a derrick which are adapted to coöperate with each other in such manner as to effectually draw a scoop along the skid in loaded condition and when it arrives at the end of the skid the said scoop is automatically dumped or unloaded. A spreading mechanism is mounted upon the derrick and the material as it falls from the scoop enters the said spreader and from thence falls into the body of a wagon or other receptacle which is located between the derrick and the skid. Means is provided for raising and lowering the spreading mechanism whereby it may be moved out of the way as the wagon is drawn between the derrick and the skid.

In the accompanying drawings, Figure 1 is an edge elevation of the loader, and Fig. 2 is a side elevation of the same.

The loader consists of the skid 1 and the derrick 2. The skid is composed of the inclined platform 3 upon the upper surface of which is attached the metallic strip 4 and which extends longitudinally of the said platform. The stop block or bar 5 is mounted at the upper end of the platform 3 and the said platform is held in an inclined position by means of the props 6.

The derrick consists of the base 7 to one edge of which are hingedly attached the posts 8. The brace 9 is hingedly attached at its lower end to the opposite end of the base 7 and at its upper end is bolted to the cross piece 10 which connects the upper portion of the posts 8 together. By such an arrangement the upper end of the brace 9 may be disconnected from the cross piece 10 whereby the said brace 9 may be swung down in the horizontal position as can also the posts 8, and when in such position the parts 8 and 9 may be swung under the base 7 whereby the parts are compactly arranged for storage and transportation purposes. The block 11 is suspended at the upper end portion of the posts 8 and carries a sheave or pulley 12. The sheave or pulley 13 is attached to that edge of the platform 7 to which the lower ends of the posts 8 are connected. The eyes 11 pass transversely through the posts 8 at intermediate points thereof and the cross bar 15 is located in the said eyes. The spreader 16 is hingedly connected at its rear edge to the upper end portions of the posts 8 and is bounded upon its upper side and along three of its edges by the rail 17 and is provided at its other edge with a depending lip 18.

The prop 19 is pivotally connected at its upper end with the spreader 16 and is provided upon its lower edge and in the vicinity of its lower end with a notch 20 at the upper edge of which is provided an outstanding lug 21. A similar notch and lug are located at an intermediate point at the under edge of the said prop 19 as at 22 and the said notches 20 and 22 are adapted to receive the cross rod 15 which is held by the eyes 14. When the notch 22 is in engagement with the cross bar 15 the spreader 16 is in the downwardly inclined position as indicated by the heavy lines in Fig. 1 and when the notch 20 is in engagement with the cross bar 15 the said spreader 16 is in the elevated position as indicated by the dotted lines in Fig. 1. When in the latter position the space between the skid 1 and the derrick 2 is unobstructed and is free to admit a wagon 23 and a team attached thereto.

A scoop and table are used in connection with the said skid and derrick, and, as illustrated in Fig. 1, the scoop 24 is adapted to be drawn up along the strip 4 mounted upon the platform 3 by the cable 25 which is attached at one end to the bail 26 of the said scoop and which passes over the sheave 12 and from thence down under the sheave 13 and to the opposite end of which a draft team may be attached.

The operation of the loader is as follows:—The wagon 23 or its equivalent is in position between the skid and the derrick and the scoop 24 is filled with material, and the cable 25 is drawn whereby the said scoop is caused to ascend along the strips 4 upon the platform 3. When the forward edge of the scoop comes in contact with the cross rail or stop 5 the forward end of the said scoop is

checked in its movement while the rear end thereof begins to ascend and turn over. This continues until the handles of the scoop fall over upon the spreader 16 when the material contained within the scoop falls first upon the said spreader and from thence into the body of the wagon 23. By reason of the fact that the spreader 16 is broader than the scoop, (as shown in Fig. 2), the material is distributed lengthwise of the body of the wagon 23 and thus all of the material is not deposited in the middle of the wagon body but is in a measure distributed at the opposite ends thereof.

Having described my invention what I claim as new and desire to secure by Letters Patent is:—

1. A loader comprising a skid and a derrick member, said derrick member composed of posts, a base supporting the posts, a spreader pivotally connected with the posts, a prop pivotally attached to the spreader and having notches provided upon its under edge, and a rod attached to the posts and adapted to enter the notches of the props.

2. A loader comprising a skid and a derrick, said derrick consisting of posts, a base supporting the same, a spreader pivotally connected to the posts and being provided around three of its edges with a rail and having at its fourth edge a depending lip, a prop pivotally connected to the spreader, a cross bar attached to the posts, said prop having upon its under edge notches which are adapted to receive the said cross bar.

3. A loader comprising a skid consisting of an inclined platform having metallic strips upon its upper surface and being provided at its upper end with a stop block, a derrick consisting of a platform, posts mounted upon the platform, a spreader pivotally connected with the posts and having around three of its edges a rail and at its fourth edge a depending lip, a prop pivotally connected with the spreader and having at its under edge notches, a cross bar attached to the posts and adapted to engage the notches of the prop, sheaves mounted at the upper and lower portions of the derrick, a scoop adapted to move along the strip upon the platform of the skid, and a cable connected at one end with the scoop and passing around the sheaves upon the derrick.

4. A loader consisting of a skid and a derrick, said skid consisting of an inclined platform having metallic strips upon its upper surface and being provided at its upper end with a stop, the derrick consisting of a platform, posts mounted upon the platform, sheaves located at the upper and lower portions of the derrick, a spreader pivotally connected with the posts, said spreader having around three of its edges a rail and at its fourth edge a depending lip, a prop pivotally connected with the spreader and being provided at its under edges with notches, lugs located adjacent the upper edges of said notches, a scoop adapted to traverse the length of the platform of the skid, and a cable connected at one end with said scoop and passing around the said sheaves mounted upon the derrick.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

HARVEY GANONG.

Witnesses:
A. J. MARSH,
M. LARSON.