

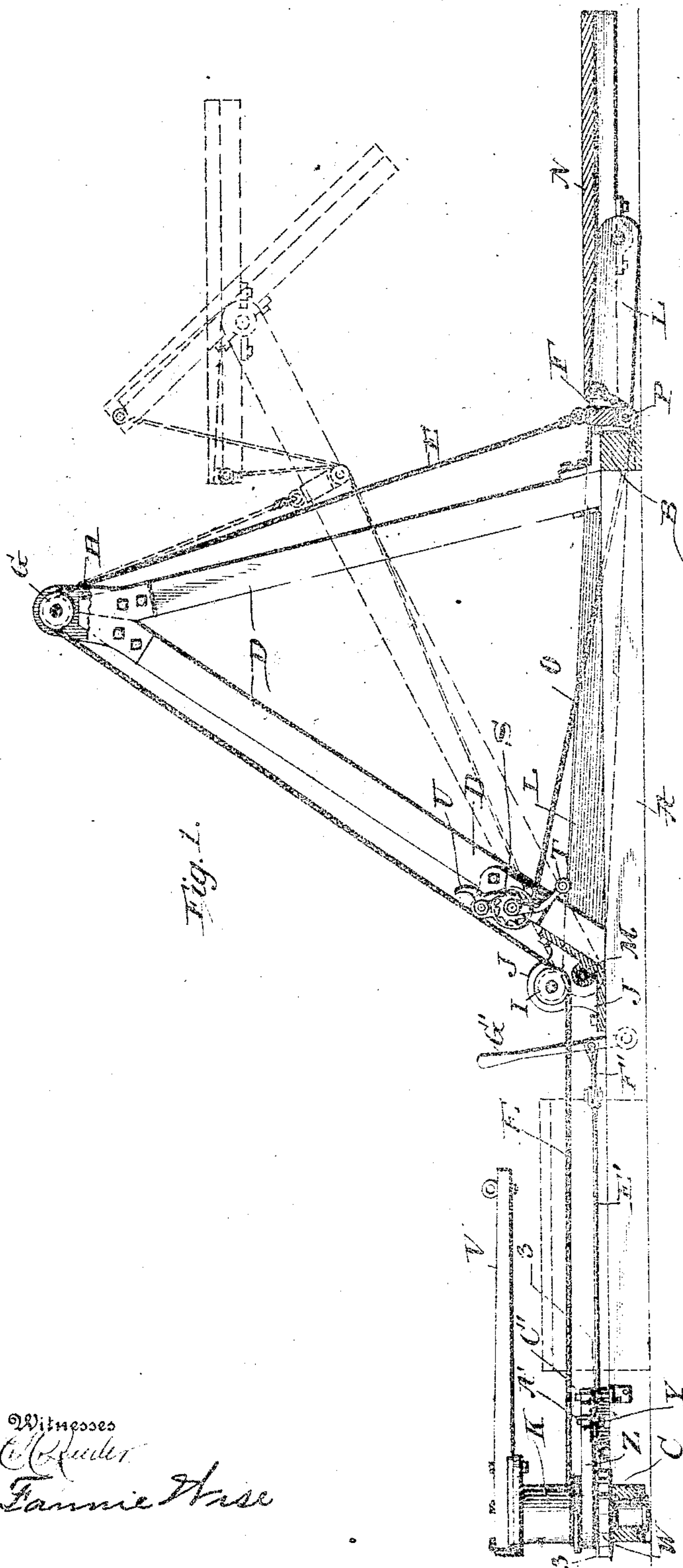
No. 884,059.

PATENTED APR. 7, 1908.

J. H. ALBRECHT.
DIRT OR MANURE LOADER.

APPLICATION FILED JAN. 23, 1908.

2 SHEETS—SHEET 1.



Witnesses
C. C. Rader
Fannie Wise

Inventor
John H. Albrecht,
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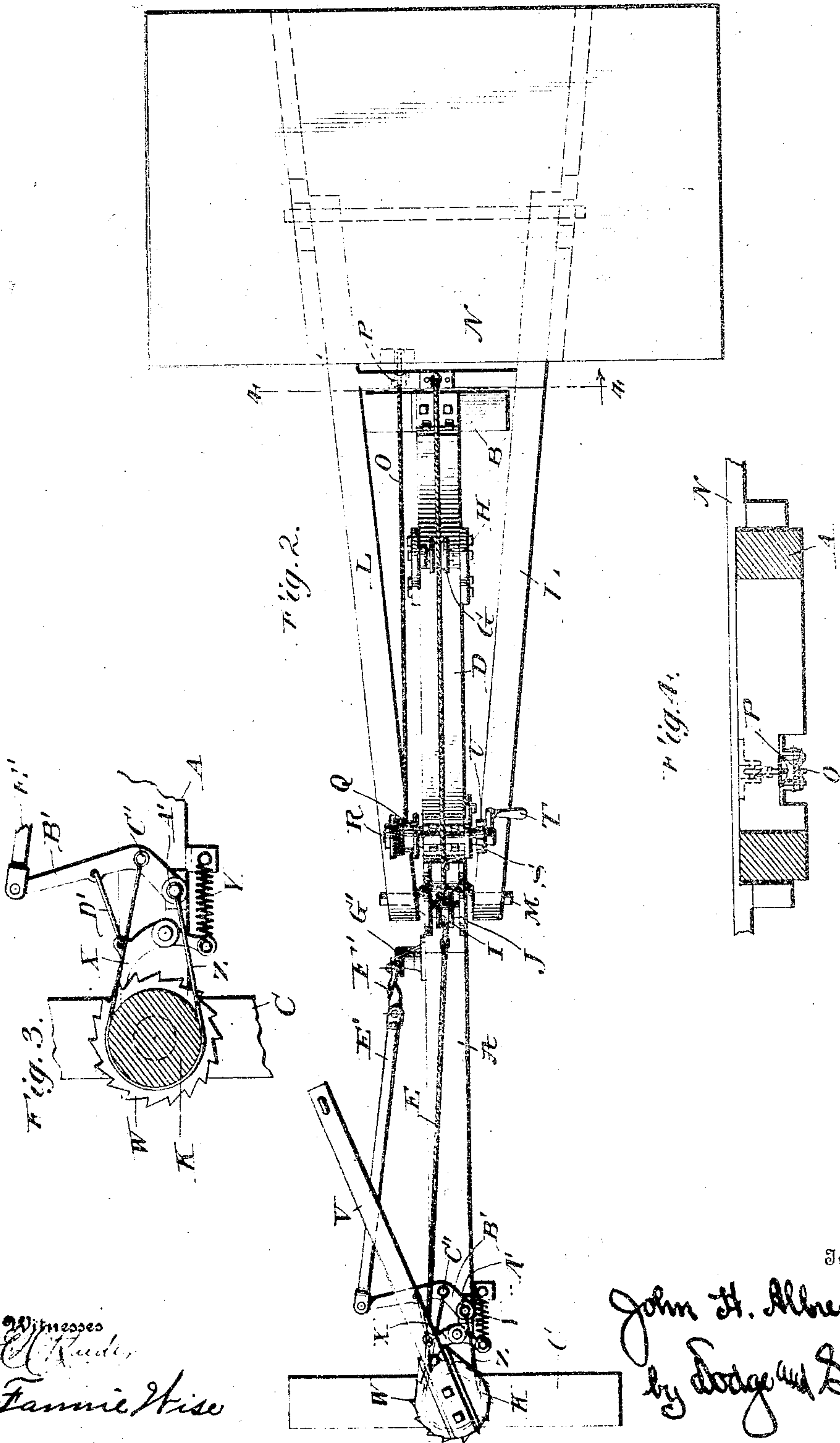
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UNITED STATES PATENT OFFICE.

JOHN H. ALBRECHT, OF MADISON, WISCONSIN.

DIRT OR MANURE LOADER.

No. 834,059.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed January 23, 1908. Serial No. 412,307.

To all whom it may concern:

Be it known that I, JOHN H. ALBRECHT, a citizen of the United States, residing at Madison, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Dirt or Manure Loaders, of which the following is a specification.

My present invention pertains to improved dirt and manure loaders, the construction and advantages of which will be hereinafter set forth, reference being had to the annexed drawings, wherein:

Figure 1 is a sectional elevation of the apparatus; Fig. 2 a top plan thereof; Fig. 3 a horizontal sectional view, taken on the line 3—3 of Fig. 1, the parts being somewhat enlarged; and Fig. 4 a transverse vertical sectional view, taken on the line 4—4 of Fig. 2, the parts being somewhat enlarged in this figure.

The object of my invention is to provide a simple apparatus in which the dirt or other material may be loaded upon a platform, which platform being loaded occupies a position substantially even with the ground, so that it may be loaded by scoops or shovels.

Combined with the platform is means for raising the same, dumping the platform when raised, and means for lowering the platform after the load has been removed therefrom.

Referring to the drawings, the base or support for the apparatus comprises a longitudinally-disposed timber or girder A, provided at its forward end with a cross or foot piece B and at the rear end with a similar piece C.

A derrick or sheer D is mounted upon the forward end of the girder, and a hoisting-cable E, connected at its front end to a cross-bar F, passes over a pulley G, mounted in a bracket H, secured to the upper portion of the derrick or sheer, the cable passing under a second pulley I mounted upon a bracket J, secured to the lower end of the inner or rear member of the sheer and to the girder A. The cable then passes rearwardly to a drum or winch K, which is supported by the member C.

The cross-bar F is secured between side bars or arms L, said members forming a frame which is pivoted to the bracket J, or upon an axle M carried by said bracket. The frame has pivotally secured to its outer end a platform or table N, the fulcrum there-

of being in rear of its center, so that the table has a tendency to tilt or tip forwardly.

A cable O is secured to the under face of the table at the innermost edge thereof and passes beneath a pulley P, carried by the cross-bar F, and about a drum Q mounted upon a shaft R journaled in suitable brackets secured to the rear member of the derrick. The shaft is provided with a ratchet-wheel S and a crank or handle T.

The retrograde movement of the drum, which would permit the cable O to unwind and the platform or table to tilt, is prevented by a gravitating dog U, which drops into the teeth of the ratchet-wheel S.

A sweep V is secured to the windlass K, and by this means the windlass is rotated so as to wind the cable E around the same and cause the swinging frame to be drawn from the position shown in full lines to that shown in dotted lines in Fig. 1. The windlass is likewise provided with a ratchet-wheel W (see Fig. 3), and a pawl X is normally held in contact with the teeth of said wheel by a spring Y.

A band-brake Z passes around the windlass, one end of the band being secured to a fixed stud or member A', which also forms the fulcrum of a lever B'. The other end of the band is attached at C' to the lever B', and a link D' connects said lever with the pawl X. An actuating rod E' is secured to the outer end of the lever and extends forwardly to a link F', which in turn is pivotally connected to a handle G', which handle is pivoted to the timber A at a point adjacent to or within easy reach of the crank T.

In operation, the material is scraped or drawn upon the platform or table while the same is in its lowered position. When a sufficient load has been placed thereon, the cable E is wound about the windlass and the platform thereby elevated, though it is still maintained in a horizontal position, the operator, if necessary, paying out the cable O to a slight extent. When the platform or table has been elevated to the required height and a wagon or other vehicle driven thereunder, the operator releases the drum Q and allows the platform or table to tilt and discharge the load. After the material has passed off the table, the cable O is again wound about the drum and the platform brought to its original horizontal position. By then manipulating the handle G', the pawl X is withdrawn from the ratchet-wheel

W and at the same time the band-brake Z is applied to the windlass. This frees the windlass and permits the cable E to unwind therefrom and the swinging frame to drop to the position shown in full lines in Fig. 1. 5 The descent of the frame and table may be regulated by applying more or less pressure upon the band-brake through the manipulation of the handle G'. Immediately upon 10 the retrograde movement of the handle the band-brake will be released and the pawl thrown into operative relation with the ratchet-wheel, so that when the cable E is again wound about the windlass it will be 15 held in that position until the handle G' is moved to withdraw the pawl.

Having thus described my invention, what I claim is:

1. In an apparatus of the character specified, the combination of a base; a derrick 20 mounted upon one end thereof; a swinging frame, the forward end of said frame extending outwardly from the base and derrick; a platform pivotally secured to the outer end 25 of the frame; means for normally holding said platform in its horizontal position; a windlass; a cable passing from the windlass over the upper portion of the derrick and connected to the swinging frame; a pawl- 30 and-ratchet device serving to hold the windlass against movement in one direction; a band-brake; and means for withdrawing the pawl from the ratchet and simultaneously

applying the brake, whereby the cable may be paid off of the drum and the platform 35 gradually lowered.

2. In an apparatus of the character specified, the combination of a base; a derrick mounted at one end thereof; a swinging frame, the forward end of which projects out- 40 wardly beyond the derrick and the base; a platform pivotally mounted in the outer end of the frame; a pulley carried by the lower portion of a cross-bar of the swinging frame; a drum mounted upon a fixed portion of the 45 apparatus; means for actuating said drum and maintaining it in its desired position; a cable passing from the drum beneath the pulley and connected to the adjacent portion of the platform or table; a windlass; a pawl- 50 and-ratchet mechanism for holding said windlass against motion in one direction; a band-brake passing about the windlass or a brake surface formed thereon; means for simultaneously withdrawing the pawl from 55 the ratchet and applying the band-brake; and a cable passing from the windlass over the upper portion of the derrick and connected to the swinging frame.

In testimony whereof I have signed my 60 name to this specification in the presence of two subscribing witnesses.

JOHN H. ALBRECHT.

Witnesses:

INA L. BUTLER,
J. J. McMANANEY.