I. E. OFFUTT.

WATER CARRIER.

APPLICATION FILED OCT. 11, 1910.

1,000,541.

Patented Aug. 15, 1911.

3 SHEETS—SHEET 1.

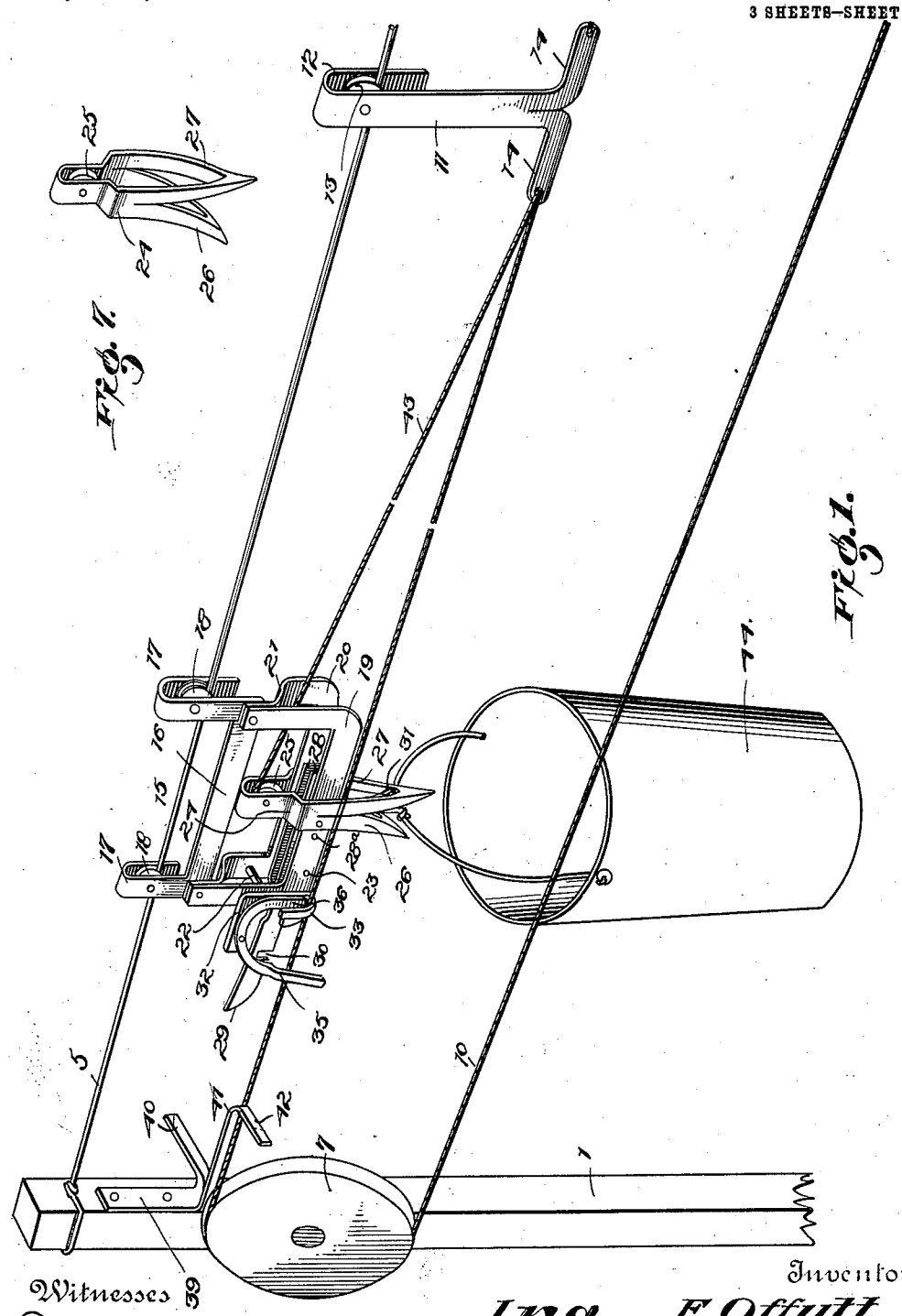

Fig. 1.

Fig. 2.

Witnesses

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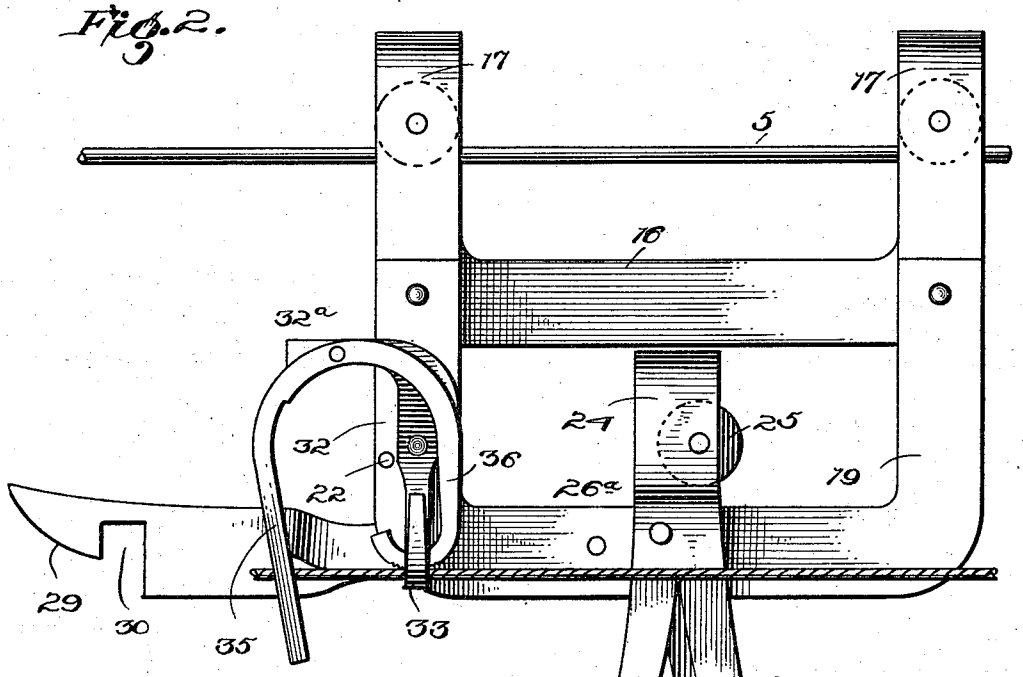
3 SHEETS—SHEET 2.

Fig. 2.



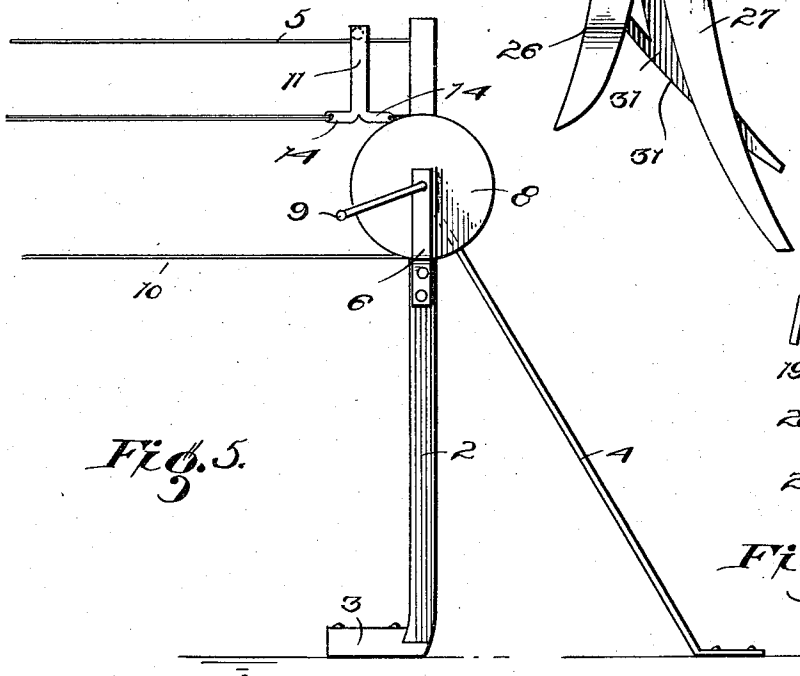


Fig. 5.

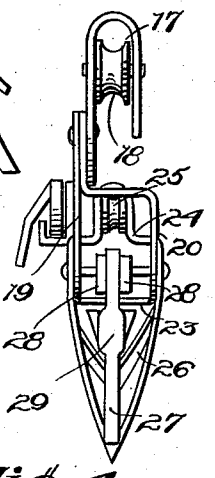


Fig. 4.

Witnesses

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3 SHEETS—SHEET 3.

Fig. 3

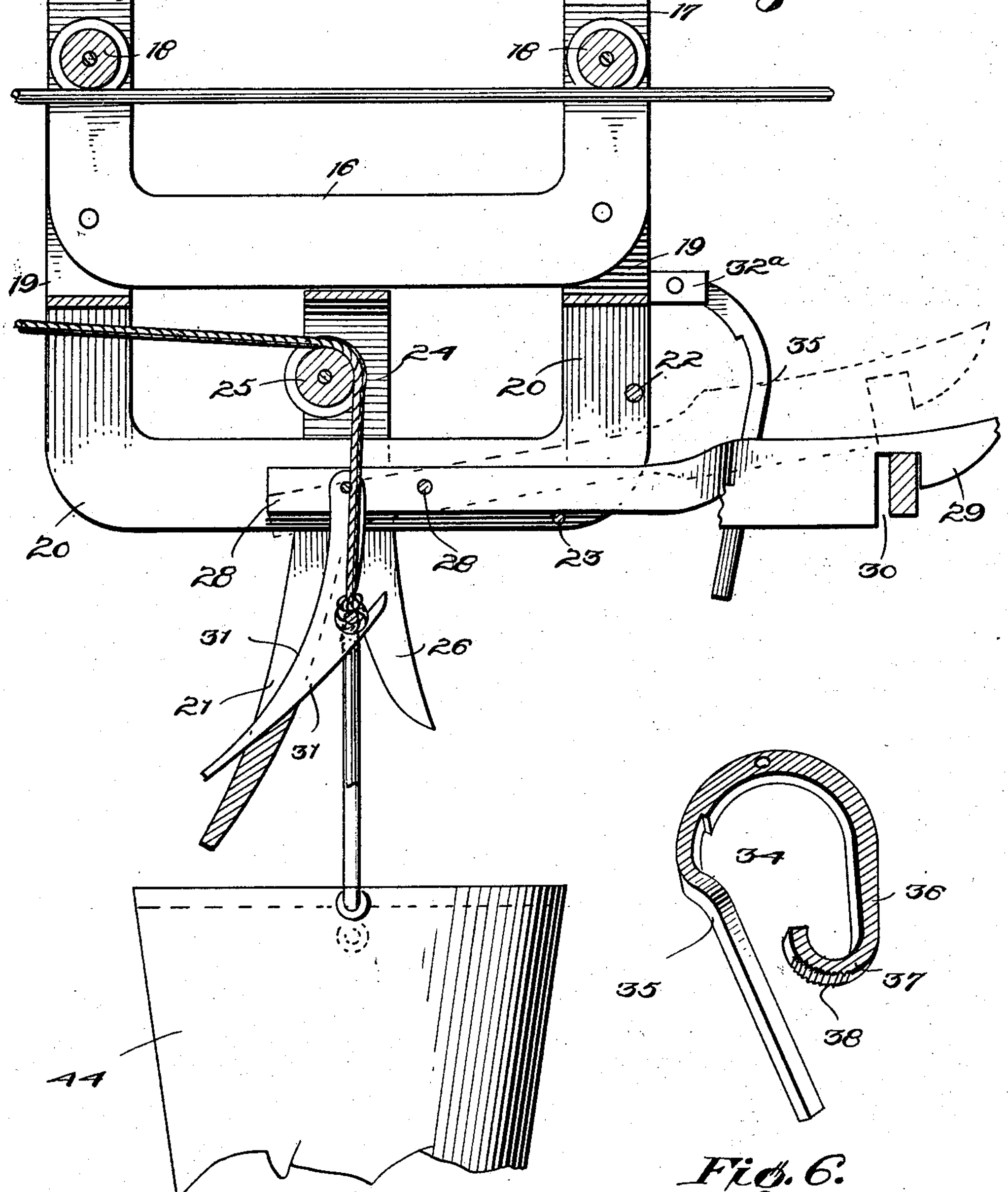

Fig. 6.

Witnesses
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UNITED STATES PATENT OFFICE.

IRA EMERSON OFFUTT, OF WHITNEY, TEXAS.

WATER-CARRIER.

1,000,541. Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed October 11, 1910. Serial No. 586,516.

To all whom it may concern:

Be it known that I, IRA E. OFFUTT, a citizen of the United States, residing at Whitney, in the county of Hill and State of Texas, have invented certain new and useful Improvements in Water-Carriers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to conveyers and the principal object of the same is to produce a device so that a person can attach a bucket to the conveyer and by turning a crank send the bucket to a well and after filling the bucket with water bring it back to the house. This would be very convenient for a person whose well is a long distance from the house.

This invention is illustrated in the accompanying drawings wherein:

Figure 1 is a perspective view of the conveyer as it would appear when carrying a bucket. Fig. 2 is an enlarged view of the carriage. Fig. 3 is a view similar to Fig. 2 but is taken from the opposite side and has a portion broken away to show the interior parts. Fig. 4 is an end view of the carriage looking from the rear end. Fig. 5 is a view of the post at the house end of the line. Fig. 6 is an enlarged view of the rope engaging arm. Fig. 7 is a perspective view of the bucket guide showing the same as it would appear when removed from the carriage.

In the accompanying drawings the numerals 1 and 2 indicate the posts which are placed at the well and house ends of the line respectively. The posts are held in place by the blocks 3 and the rods 4 and are connected by a wire cable 5 which carries the principal part of the weight of the bucket. Each of the posts is provided with a bracket 6 in which a pulley wheel 7 or 8 is mounted, the pulley wheel at the house end of the line being provided with an operating crank 9. The pulleys are connected by a cable 10, the ends of which are secured to a hanger bracket 11 carried upon the cable 5. The bracket 11 is formed from a strip of metal and has its upper portion bent to form a housing 12 in which a pulley 13 is mounted. The lower portion of the bracket is split longitudinally to provide a pair of arms 14 to which the ends of the ropes 10 are secured.

The carriage 15 comprises a U-shaped hanger bracket 16 the arms of which are bent to form pulley housings 17 for the pulleys 18 which rest upon the cable 5. A pair of side members 19 and 20 are secured to the lower portion of the bracket 16, the member 20 being curved to one side as shown at 21 to hold the member in spaced relation to the member 19. The side members 19 and 20 are braced by means of the bracing rods 22 and 23 which also serve another function which will be brought out hereinafter. A bucket guide 24 is rigidly secured to the central portion of the carriage. From an inspection of Fig. 7 it will be seen that the guide is formed from a solid piece of material which is split longitudinally from both directions. The guide is spread apart in one direction to form an opening through which the side members 19 and 20 pass. The upper portion of the guide is formed into a housing for a pulley wheel 25. The lower portion of the guide is spread to form a pair of guiding fingers 26 and 27 the faces of the fingers being curved to guide the bucket bail. A catch is formed from a piece of metal, the rear portion of which is longitudinally split to form a pair of spaced apart arms 28, the upper arm being bent down to bring it in the same plane as the other of said arms as clearly shown in Fig. 3.

The catch is pivotally mounted between the side members 19 and 20 upon a pivot pin 28^a, located just forward of the guide 24. The catch passes between the bracing rods 22 and 23 so as to limit its upward and downward movement and is provided at its forward end with a cam surface 29 leading to a notch 30. A bucket engaging hook 31 is pivotally mounted between the arms 28 to the rear of the pivot pin 28^a. The free end of the hook comes between the fingers of the guide 24 and is provided with a cam surface 31^a which causes it to swing rearwardly when brought into contact with the bucket bail. The end of the hook projects to the rear of the guide and by coming in contact with the finger 27 keeps the hook from swinging too far forward.

A bracket 32 is rigidly secured to the forward arm of the side member 19. The upper portion is provided with a forwardly projecting arm 32^a and the lower portion is bent up to form a housing 33 through which the cable 10 passes. A curved clutch 34 is pivotally mounted upon the arm 32^a and

has depending therefrom two arms 35 and 36. The arm 36 is provided with a curved lower end 37 which enters the housing 33 and is provided upon its under surface with a roughened portion 38 which engages the cable 10. The arm 35 forms a handle by means of which the clutch can be brought into contact with the cable 10.

A strip of metal 39 is secured to the post at the well end of the line. The strip is split longitudinally at its lower portion to form a pair of arms 40 and 41 which extend out from the post. The arm 40 extends to one side of the post and is positioned at such a height as to be engaged by the catch. The arm 41 extends out from the post and is then bent at right angles to form an abutment trip 42 which engages the handle 35 and releases the clutch from the cable 10.

A cable 43 is secured to the arm 14 nearest the carriage and is then carried over the pulley 25 and down between the fingers 26 and 27 where it is secured to the bail of a bucket 44 in a suitable manner. The cable 43 is approximately the same length as the distance between the carriage and the bottom of the well.

The operation of the device is as follows: The posts are firmly driven into the ground, one near the house and the other on the far side of the well and are connected by the tightly stretched cable 5. The cable 10 is now passed around the pulleys 7 8 and stretched tight, the ends being secured to the arms 14 of the hanger bracket 11 suspended from the cable 5. The cable 43 is secured to one of the arms 14 and passed over the pulley 25 carried by the carriage 15 which is mounted upon the cable 5 and the bucket 44 secured to the end of the cable. The bracket 11 is now drawn to the house end of the line and the carriage drawn along the cable until the bucket comes between the guiding fingers, but not far enough to cause it to be engaged by the hook. The carriage is now locked to the cable 10 by means of the clutch 34 which prevents the bracket from advancing toward the carriage, as the crank 9 is turned, which would permit the bucket to drop to the ground. The crank is now turned and the carriage taken to the well where the catch rides over the arm 40 and engages the same by its notch 30 thus making it impossible for the carriage to return. At the same time the trip 42 releases the clutch from the cable and permits the hanger bracket 11 to advance toward the well thus permitting the bucket to drop down into the well. The crank is now turned in the opposite direction which draws the bucket (now full of water) from the well. When the bucket reaches the top it strikes the guiding fingers which guide the bail upward until it is engaged by the hook 31. When the hook engages the bail the weight of the bucket rocks the catch upon its pivot and releases it from the arm 40. The catch is prevented from rocking too far by the rod 22. The carriage can now be drawn to the house where the bucket can be removed from the hook and the water emptied.

This device will save a great deal of time and labor as water can be obtained from a distant well without having to leave the house or to carry the heavy bucket of water from the well.

What I claim as new is:—

1. A conveyer comprising a suspension cable, a conveying cable, a bracket secured to said conveying cable and suspended from said suspension cable, a carriage carried by said suspension cable, means carried by said carriage for engaging said conveying cable, a catch mounted upon said carriage, a bucket suspending cable attached to said bracket and passing through said carriage, and means for engaging said catch and releasing said cable engaging means.

2. A conveyer comprising a suspension cable, a conveying cable, a carriage carried upon said suspension cable and engaging said conveying cable, a bucket carrying cable passing through said carriage and secured to said conveying cable, and means for releasing said carriage from said conveying cable.

3. A conveyer comprising a suspension cable, a conveying cable, means for suspending said conveying cable from said suspension cable, a carriage slidably mounted upon said suspension cable, a bucket carrying cable passing through said carriage and secured to said cable suspending means, a catch for holding said carriage at one end of said suspension cable, and a hook for carrying said bucket and releasing said catch.

4. A conveyer comprising a suspension cable, a conveying cable, a bracket connecting said conveying cable to said suspension cable and slidably mounted thereon, a carriage mounted upon said suspension cable, a bucket carrying rope passing through said carriage and attached to said bracket, a clutch carried by said carriage and holding the same in spaced relation to said bracket, and means for releasing said clutch.

5. A conveyer comprising a suspension cable, a conveying cable, a bracket connecting the ends of said conveying cable and supporting the same from said suspension cable, a carriage mounted upon said suspension cable, and a bucket carrying cable passing through said carriage and secured to said bracket.

6. A conveyer comprising a suspension cable, a conveying cable, a carriage mounted upon said suspension cable, a catch pivotally connected to said carriage, a hook suspended from the inner end of said catch, a guide for

directing a bucket bail to said hook, a clutch engaging said conveying cable, and means for engaging said catch and releasing said clutch.

7. A conveyer comprising a suspension cable, a conveying cable, a bracket connecting the ends of said conveying cable and slidably mounted upon said suspension cable, a carriage mounted upon said suspension cable, a bucket engaging hook carried by said carriage, a guiding member, the lower portion of said guiding member formed into guiding fingers leading to said hook, the upper portion formed into a housing for a pulley, and a bucket carrying cable passing between said fingers and over said pulley, and secured to said bracket.

8. A conveyer comprising a suspension cable, a conveying cable, a bracket formed of a strip of metal bent near one end to form a pulley housing, a pulley in said housing, the other end of said strip split longitudinally and the arms formed thereby bent to each side, and said conveying cable secured thereto, a carriage mounted upon said suspension cable, a pulley mounted within said carriage, and a bucket carrying cable passed over said carriage pulley and secured to one of the arms of the bracket.

9. A conveyer comprising a suspension cable, a conveying cable, a bracket suspending said conveying cable from said suspension cable, a carriage, said carriage comprising a hanger bracket, a pair of spaced apart side members secured to said bracket, a catch pivotally mounted between said side members, rods bracing said side members and limiting the upward and downward movement of said catch, a clutch, catch engaging and clutch releasing means, and bucket carrying and catch releasing means carried by the inner end of said catch.

10. A conveyer comprising a suspension cable, conveying cable, a carriage, said carriage comprising a hanger bracket, a pair of spaced apart side members, a catch pivotally mounted between said side members, the inner portion of said catch being split longitudinally and the arms formed thereby bent parallel to each other, and a hook suspended between said arm for carrying a bucket and releasing said latch.

11. A conveyer comprising a suspension cable, a conveying cable, a bracket connecting said cables, a carriage comprising a hanger bracket, side members secured to said hanger bracket, a catch pivotally mounted between said side members, a hook carried by said catch, a guide formed from a single piece of metal split longitudinally in two directions, said piece being spread in one direction to permit the passage of said side members, the upper portion of said piece being formed into a housing for a pulley, the lower portion of said piece being spread to form a pair of air guiding fingers leading to said hook, and a rope passing between said fingers and over said pulley and secured to said bracket.

12. A conveyer comprising a suspension cable, a conveying cable, a carriage mounted upon said suspension cable, bucket carrying means carried by said carriage, a clutch engaging said conveying cable, said clutch comprising an angle bracket, the lower portion of said bracket bent to form a housing, a clutch pivotally connected to the upper portion of said bracket, one arm of said clutch forming a handle, the other arm being bent and roughened to form a gripping shoe entering said housing, and means for automatically releasing said clutch from said conveying cable.

13. A conveyer comprising end posts, a suspension cable, a conveying cable, a carriage, a catch carried by said carriage, a clutch carried by said carriage, a strip of metal secured to one of said posts the lower portion of said strip being split to form a pair of arms, one of said arms bent to one side to engage said catch, and the other arm brought forward and bent to one side to form an abutment trip to release said clutch.

14. A conveyer comprising a pair of end posts, a suspension cable, a pulley secured to each of said posts, a crank for one of said pulleys, an endless conveying cable passed around said pulleys, a bracket secured to said conveying cable and slidably mounted upon said suspension cable, a carriage, a bucket carrying cable passing through said carriage and secured to said bracket, a catch carried by said carriage, a clutch carried by said carriage, and means carried by one of said posts for engaging said catch and releasing said clutch.

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

IRA EMERSON OFFUTT.

Witnesses:
R. C. FEAGIN,
J. N. COLLIE.