(No Model.) 2 Sheets—Sheet 1

J. A. BOHON.

WATER CARRIER.

No. 571,640. Patented Nov. 17, 1896

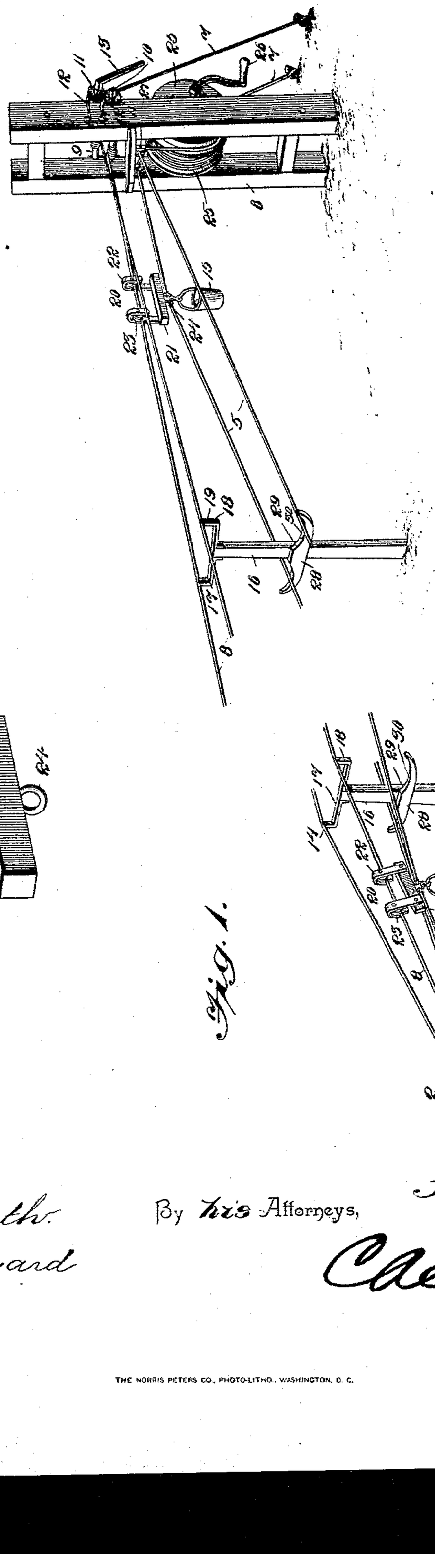

Fig. 1.

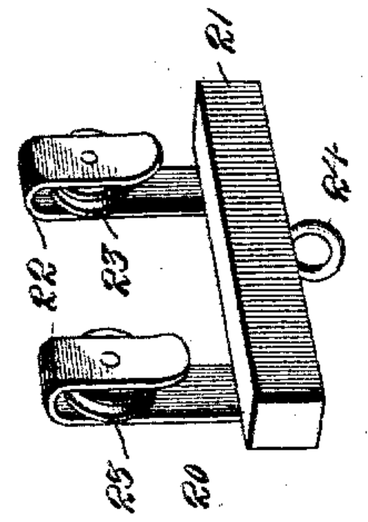

Fig. 3.

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

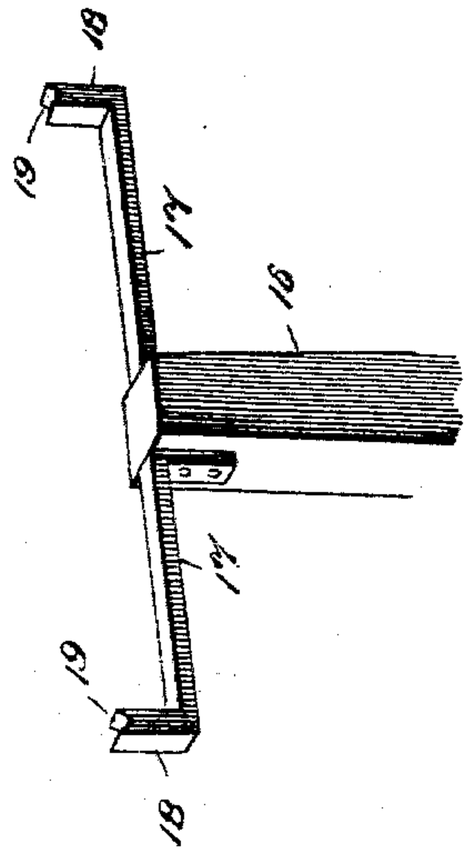


Fig. 5.

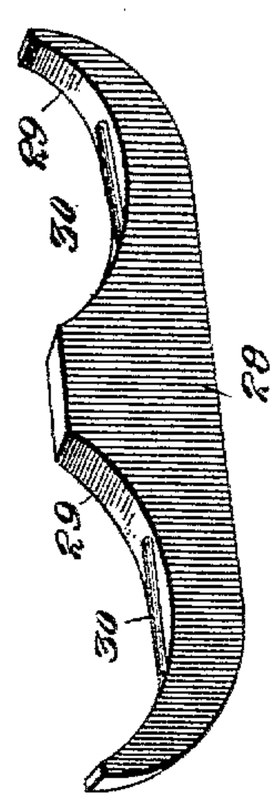
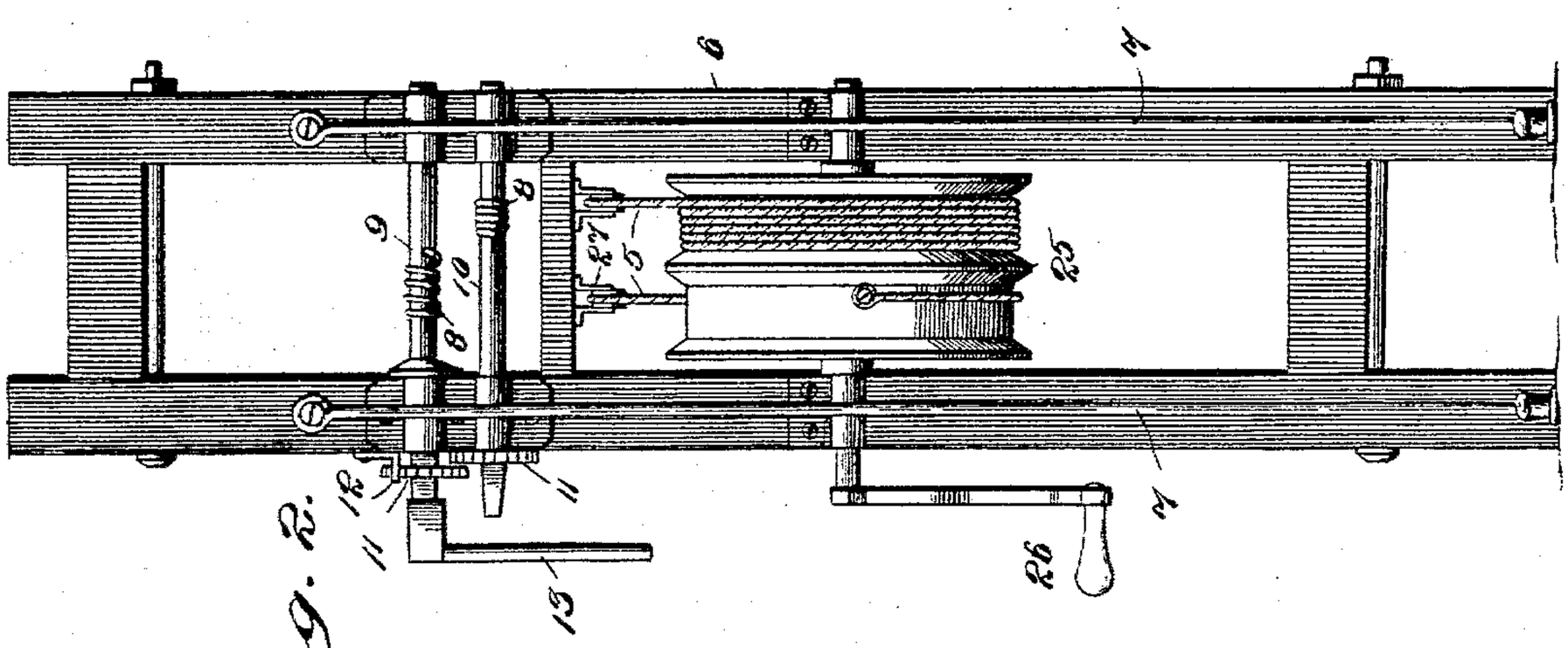


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOSEPH ANDREW BOHON, OF TERRA ALTA, WEST VIRGINIA, ASSIGNOR OF ONE-HALF TO P. K. ADAMS, OF SAME PLACE.

WATER-CARRIER.

SPECIFICATION forming part of Letters Patent No. 571,640, dated November 17, 1896.

Application filed April 27, 1896. Serial No. 589,293. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH ANDREW BOHON, a citizen of the United States, residing at Terra Alta, in the county of Preston and State of West Virginia, have invented a new and useful Water-Carrier, of which the following is a specification.

This invention relates to apparatus or means for elevating and carrying water from springs, wells, tanks, streams, or other sources of water supply to dwellings or other places where it is required to use the same, whether for domestic or other purposes.

The object of the invention is the provision of an apparatus which will be simple in construction and the arrangement of its parts, capable of being easily and conveniently operated, comprise a minimum number of parts, and attain the desired end in a satisfactory manner.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of an apparatus or means for carrying into effect the purpose and intent of this invention. Fig. 2 is a front view of the frame bearing the operating parts, and which is located at the delivery end of the line or apparatus. Fig. 3 is a detail view of a carriage. Fig. 4 is a detail view of the upper portion of a post for supporting the lines or tracks at points intermediate of their ends. Fig. 5 is a detail view of the support to prevent the sagging of the actuating cord or rope.

Corresponding and like parts are referred to in the following description and indicated in the several views of the accompanying drawings by the same reference-characters.

The source of water supply is designated by the numeral 1, and may be a spring, well, stream, or tank, and is remotely situated from the point at which the water is to be used. A post 2 is located near the source of water supply or fount and is strengthened by a stay or guy 3, and has a sheave-pulley 4 applied thereto, around which passes the operating cord or rope 5. A frame 6 is located at the place where it is required to deliver the water gathered from the source 1, and this frame comprises parallel uprights and intermediate cross-bars, the parts being connected together in any substantial way.

Stays 7 brace the upper end of the frame 6 and incline in an opposite direction to the stay 3, so as to sustain the strain upon the cord or rope 5 and the lines or tracks 8. Rollers 9 and 10 are journaled near their ends to the upper portion of the frame 6, and each is supplied with means to prevent it from turning backward, the same consisting of a ratchet-wheel 11 and a pawl 12. An end portion of the rollers 9 and 10 is extended and made angular to receive a wrench 13 or other tool for the purpose of turning the rollers to secure a proper tension upon the lines or tracks 8. The lines or tracks 8 are preferably of wire, although a cable may be used if desired, and this wire is continuous and passes around the post 2 and has its end portions secured to the rollers 9 and 10 and adapted to be wound thereon for the purpose set forth. That portion of the lines or tracks immediately above the source of water supply 1 is inclined, as shown at 14, so as to lower the buckets 15 into the water.

One or a series of posts 16 are located at intervals in the length of the tracks and are adapted to support the latter, and each post has oppositely-extending arms 17, which are fastened at their inner ends to the post in any substantial way, the outer portion of the arm being bent vertically, as shown at 18, and notched in its extremity to receive the track, which latter is seated in the notch and held from lateral displacement thereby. By having the track fitted loosely in the notches 19 of the bent ends 18 it can be moved under the action of the rollers 9 and 10, so as to admit of the track being subjected to any required tension.

The carriages 20 are similarly constructed and comprise a bar 21, parallel hangers 22,

and traveling wheels 23, journaled in the upper portion of the hangers 22 and grooved in their periphery to receive the track. Each hanger is open on one side to admit of the carriage being placed upon or removed from the track and also to admit of the carriage passing by the horizontal portions of the arms 17. There may be as many carriages 20 as desired, two being preferred and disposed so that when one is at the delivery end of the apparatus the other is at the receiving end, whereby when one bucket is moving toward the source of water supply the other bucket is moving away from the source of water supply and toward the delivery end, thereby enabling a supply of fresh water to be had in half the time required if only a single carriage were employed. The operating rope or cord 5 is attached to eyes 24, secured in any convenient way to the carriages, and these eyes 24 form means of attachment for the buckets 15, the bails of the latter having snap-hooks to admit of their ready application to and removal from the carriages.

A drum 25 is journaled to the frame 6 and is rotated by means of a crank 26 and has two parts for the end portions of the cord or rope 5 to be reversely wound upon, so that as one end portion is wound upon the drum the opposite end portion is correspondingly unwound. Pulley-blocks 27 are secured to a cross-piece of the frame immediately above the drum 25, and the end portions of the cord or rope pass thereover and are directed thereby.

To prevent the operating cord or rope from sagging, one or more of the posts 16 is provided with a cross-bar 28, which is notched or depressed in its upper edge or side, as shown at 29, so as to prevent the rope or cord from slipping over the ends of the cross-bar and getting beneath the latter. To prevent undue wear upon the rope or cord, rollers 30 are located in the lowest part of the depressions 29 and rotate as the cord or rope is dragged thereover.

Having thus described the invention, what is claimed as new is—

1. In an apparatus for elevating water and carrying the same from a spring, well, &c., to a convenient point for use, the combination of a track, a carriage adapted to travel upon the track and bearing a bucket, an operating cord or rope having connection with the carriage to impart motion thereto, a cross-bar having a depression in its top edge or side, and a roller fitted in the bottom of the depression to support the sagging portion of the operating cord or rope and coming flush at its ends with the depression, substantially as and for the purpose set forth.

2. The herein-described apparatus for elevating water and carrying the same from a spring, well, &c., to a convenient point for use, consisting of an operating-drum and tension-rollers at the delivery end, a post at the far side of the spring and provided with a sheave-pulley, a wire or cable passing around the said post and extending parallel to provide tracks, and having its ends secured to and adapted to be wound upon the said tension-rollers, posts provided with arms to support the tracks, carriages mounted upon the tracks, an operating-rope passing around the sheave-pulley of the post and reversely wound upon the aforesaid operating-drum, and having connection with the carriages to move them in opposite directions upon the tracks, cross-bars attached to the supporting-posts and having depressions in their top sides provided with rollers to support the sagging portions of the operating-rope, and buckets removably attached to the carriages, substantially as specified.

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

JOSEPH ANDREW BOHON.

Witnesses:
P. K. HELAMS,
L. S. ADAMS.