(No Model.)

C. J. KNIGHTON.

ELEVATOR AND CARRIER.

No. 348,329. Patented Aug. 31, 1886.

Fig. 1.

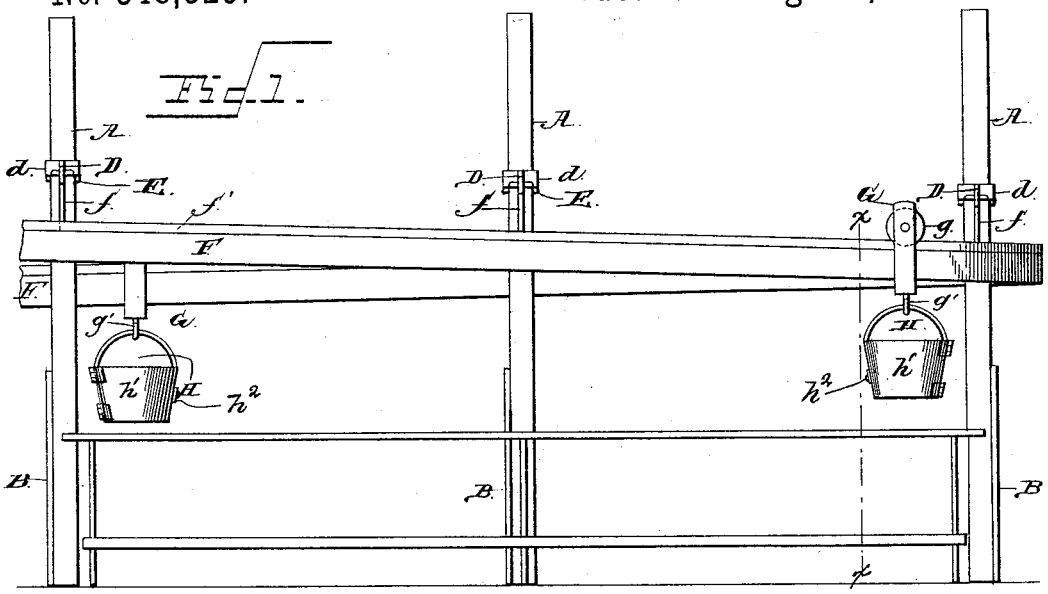
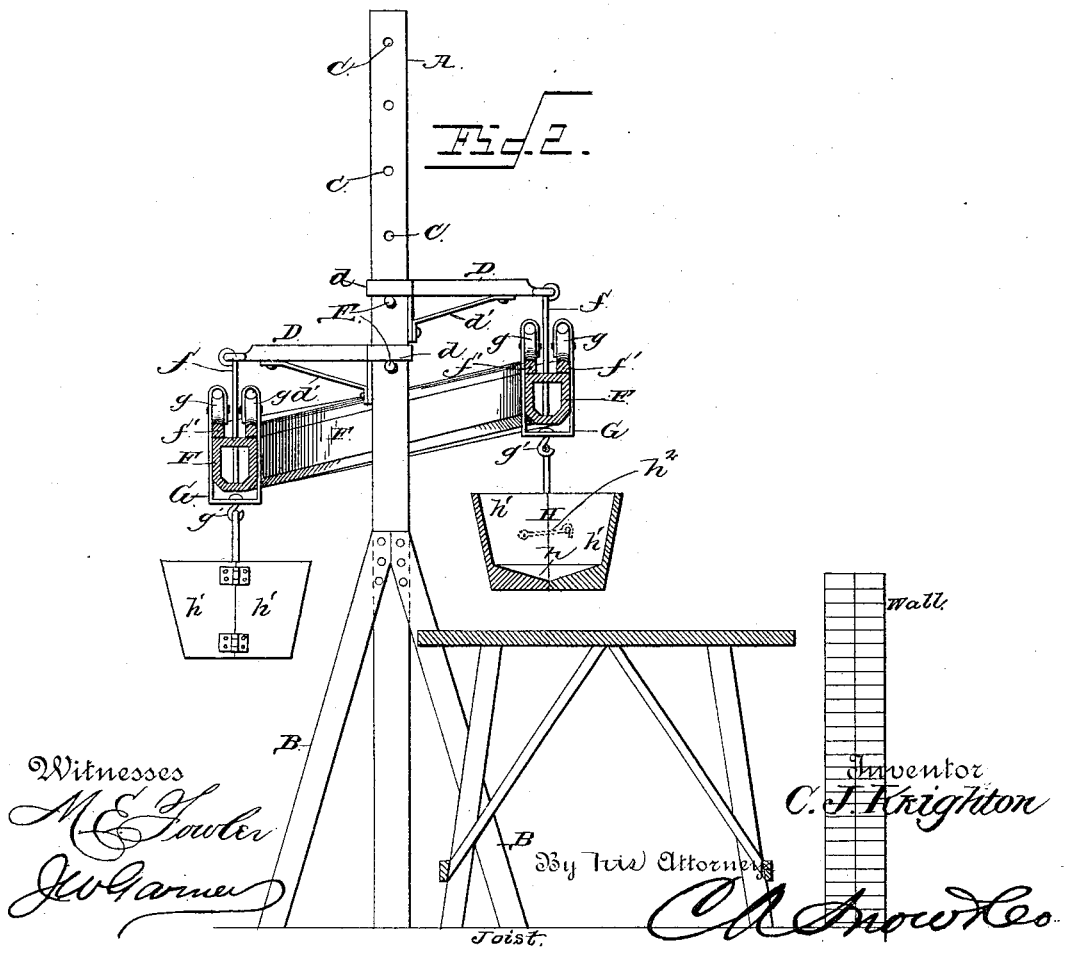


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES JOHN KNIGHTON, OF BIRMINGHAM, ALABAMA.

ELEVATOR AND CARRIER.

SPECIFICATION forming part of Letters Patent No. 348,329, dated August 31, 1886.

Application filed January 11, 1886. Serial No. 188,251. (No model.)

To all whom it may concern:

Be it known that I, CHARLES JOHN KNIGHTON, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, have invented a new and useful Improvement in Elevators and Carriers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in elevators and carriers; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a transverse section view of the same on the line *x x*, Fig. 1.

This invention is designed, primarily, for elevating and carrying brick and mortar to buildings in process of construction, but may be used for other analogous purposes.

A represents a series of vertical supports, which are erected on the flooring-joists or on the scaffolding of a building, and are supported by diagonal braces B. The upper portion of each support A is provided with a series of transverse openings, C.

D represents supporting-arms, which are preferably made of iron, and have collars *d* at their inner ends to fit on the supports A, and depending triangular braces *d'*, that bear against the supports A and maintain the arms in a horizontal position. These arms are supported at any required height on the supports by iron pins E, that are passed through the openings C. The arms D project from opposite sides of the supports, and from their outer ends are suspended tracks F by means of hooks *f*. The arms D are so arranged on the supports as to suspend the tracks in inclined positions, the track on one side of the line of supports being inclined in the opposite direction to the other track. The hooks *f* extend up through the centers of the tracks, and on the outer edges of the tracks, on the upper sides thereof, are secured bearing-rails *f'*.

G represents carriers, which are provided with grooved wheels *g*, that fit on the rails and have hooks *g'* depending from their lower ends. To these carriers, at the elevated end of one of the tracks, are hooked buckets H, having inclined bottoms *h*, hinged sides *h'*, and latches h^2. The bricks or mortar are loaded into the buckets, and the carriers convey them down the inclined track by gravity. A workman stationed on the platform at any point on the track where the building material is needed arrests the progress of the buckets, trips the latches, which causes the hinged sides of the buckets to open and the bricks or mortar to be discharged from the inclined bottoms onto the platform. The buckets, after being emptied, are again started, and proceed to the end of the track and around a curve to the return-track, and continue along said track back to the starting-point, to be detached, loaded, and attached to the serving-track, when the operation proceeds as before.

By means of this invention building material may be conveyed along a platform and served to the workmen with great ease and rapidity, thus effecting an economy in labor and expense. The tracks are made of separable sections, by which means they may be readily taken down, transported, and set up, and by making the arms D vertically adjustable on the supports the tracks may be supported at any desired height or incline.

Having thus described my invention, I claim—

The combination, in a carrier for supplying building material, &c., to workmen, of the vertical supports A, the horizontal projecting arms D on the supports, arranged one above the other on each support and projecting from opposite sides thereof, the said arms having each a collar, *d*, fitting on the support, the inclined tracks suspended from the outer ends of the horizontal arms, and means for securing the arms independently to the supports at any desired vertical position thereon, whereby any desired inclination of the tracks may be secured, substantially as described.

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

CHARLES JOHN KNIGHTON.

Witnesses:

EDWIN K. FULTON,

ISAAC N. SNEDECOR.