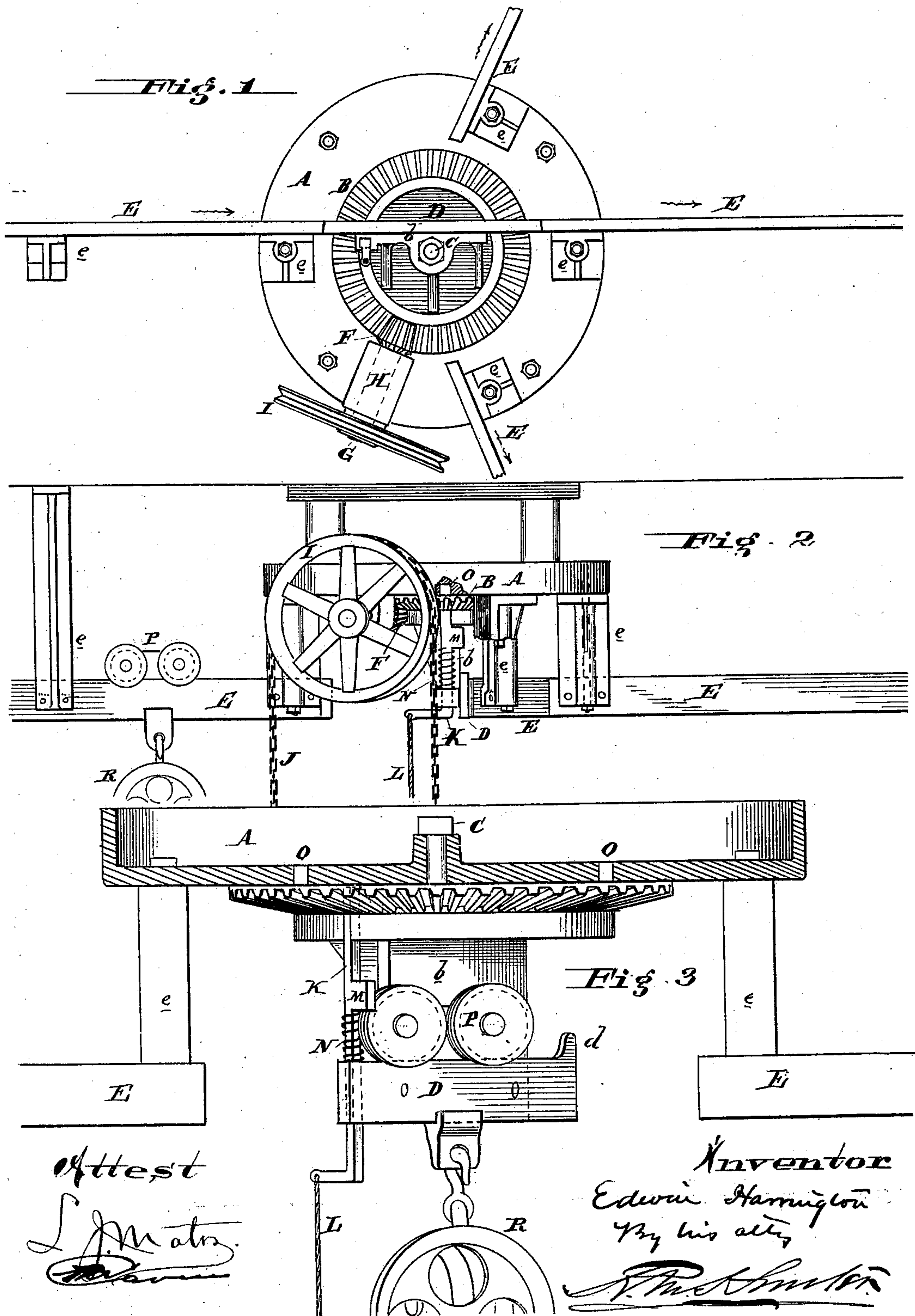


(No Model.)

E. HARRINGTON.
HOISTING MACHINE.

No. 272,432.

Patented Feb. 20, 1883.



Attest
J. M. Atty.
[Signature]

Inventor
Edwin Harrington
By his atty
[Signature]

UNITED STATES PATENT OFFICE.

EDWIN HARRINGTON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
EDWIN HARRINGTON & SON, OF SAME PLACE.

HOISTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 272,432, dated February 20, 1883.

Application filed December 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWIN HARRINGTON, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improvement in Hoisting-Machines, of which the following is a specification.

My invention has reference to hoisting apparatus, but more particularly to the overhead tramways or rails for same; and it consists in the combination of two or more branch rails with a turn-table and means to move said turn-table upon its pivot to cause the rail thereon to come in line with any desired branch line; further, in means to lock said turn-table in line with any branch rail, and means to prevent the traveler of the hoist from running off said turn-table rail when the same is being turned, and in details of construction, all of which is fully set forth in the following specification and shown in the accompanying drawings, which form part thereof.

The object of this invention is to transfer the hoist and its traveler from one branch rail to another, to enable it to be taken from one part of the building to another, thus reducing the quantity of rail required to take in a given circuit. In addition thereto this device is adapted to save much time and labor and enable the hoist and its load to be turned about with facility.

In the drawings, Figure 1 is a plan view of my improved hoist tramway and turn-table, looking upward. Fig. 2 is an elevation of same; and Fig. 3 is a similar view, showing the turn-table in action.

A is the bed-plate of the turn-table, and carries pivoted to it by pin C a bevel-gear, B, provided with a bracket, b, to which is bolted a short piece of rail, D, one end of which may be curved up, as at d, when two of the branch rails are not designed to be made continuous, this part d preventing the traveler P of the hoist R from running off the turn-table.

F is a bevel-wheel, which meshes with wheel B, and is secured upon a shaft, G, supported in a bearing, H, and provided on its outer end with a chain-wheel, I, over which an endless chain, J, passes.

E are branch rails, which converge toward the center of the turn-table, and their ends

may be secured thereto by suitable brackets, and are equidistant from the center-pin C, and are so arranged with respect to the short rail D that when the latter is turned it may be brought in line with either one of the branch rails desired. A locking-pin, K, is carried by the bracket b or rail D, and works vertically through the hub of the wheel B and passes into holes O in the bed-plate of the turn-table, to arrest the movement of the rail D when the same is brought in line with any branch rail E. The pin K is pressed upward by a spring, N, and is provided with a lug, M, which, when the pin is drawn by cord L to allow the turn-table to rotate, prevents the traveler P of the hoist R from running off said rail D while the turn-table is moving. The rail D being in the position as shown in Fig. 1, the traveler P is run from one branch rail E thereon. The pin K is then pulled down and the chain-wheel I rotated, causing the turn-table to revolve, and when the rail D is brought into the proper position with either of the branch rails E desired, it is locked in position by the pin K passing into the hole.

I do not limit myself to the particular construction shown, as my invention comprehends, broadly, two or more branch rails suspended overhead, arranged with a turn-table adapted to transfer a hoist and its traveler from one of said branch rails to any other desired.

My invention is equally adapted to double rails and four-wheeled travelers, and may be modified in various ways without departing from my invention.

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

1. In hoisting apparatus, two or more branch rails arranged overhead, in combination with a turn-table provided with a short section of rail adapted to be brought in line with either of said branch rails, a hoist, and its traveler adapted to run upon said rails, substantially as and for the purpose specified.

2. In hoisting apparatus, two or more branch rails arranged overhead, in combination with a turn-table provided with a small rail-section arranged to be brought in line with either of said branch rails, means to turn said turn-table

ble, means to lock the same in position, when said short rail-section is brought in line with said branch rails, a hoist, and its traveler adapted to run upon said rails, substantially as and for the purpose specified.

3. In hoisting apparatus, two or more branch rails arranged overhead, in combination with a turn-table provided with a short rail-section, arranged to be brought in line with either of said branch rails, means to turn said turn-table, means to lock the same in position when said short rail-section is brought in line with said branch rails, a hoist and its traveler, and mechanism to prevent said traveler from running off said short rail-section when being turned, substantially as and for the purpose specified.

4. The combination of bed-plate A, bevel-gear wheel B, carrying rail-section D, bevel-

wheel F, shaft G, chain-wheel I, chain J, and branch rails E, substantially as set forth.

5. The combination of bed-plate A, bevel-gear wheel B, carrying rail-section D, bevel-wheel F, shaft G, chain-wheel I, chain or cord J, pin K, spring N, cord L, and rails E, substantially as set forth.

6. The combination of bed-plate A, bevel-gear wheel B, carrying rail-section D, bevel-wheel F, shaft G, chain-wheel I, chain or cord J, pin K, having lug M, spring N, cord L, and rails E, substantially as set forth.

In testimony of which invention I hereunto set my hand.

EDWIN HARRINGTON.

Witnesses:

R. M. HUNTER,

W. MCWADE.