

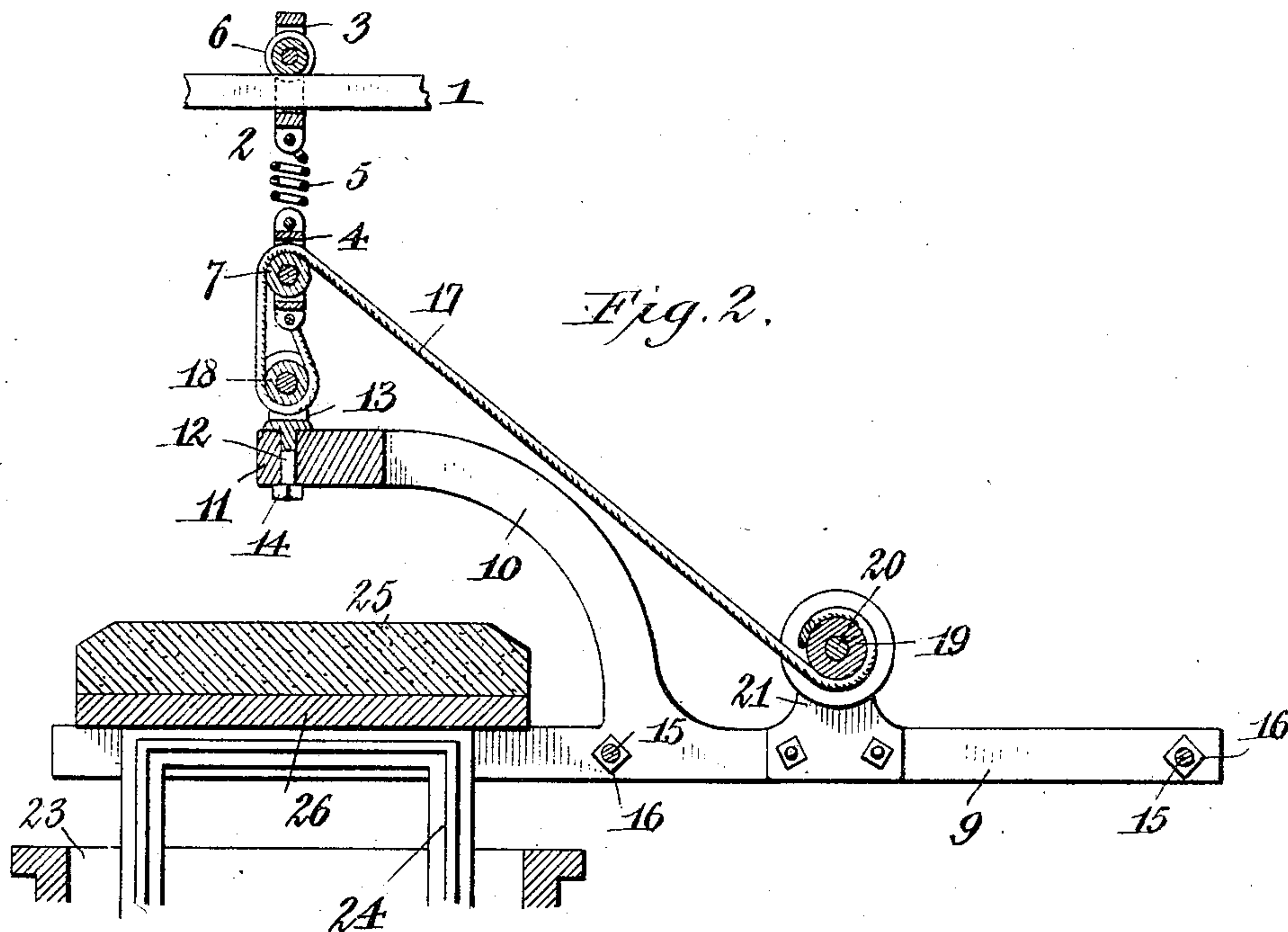
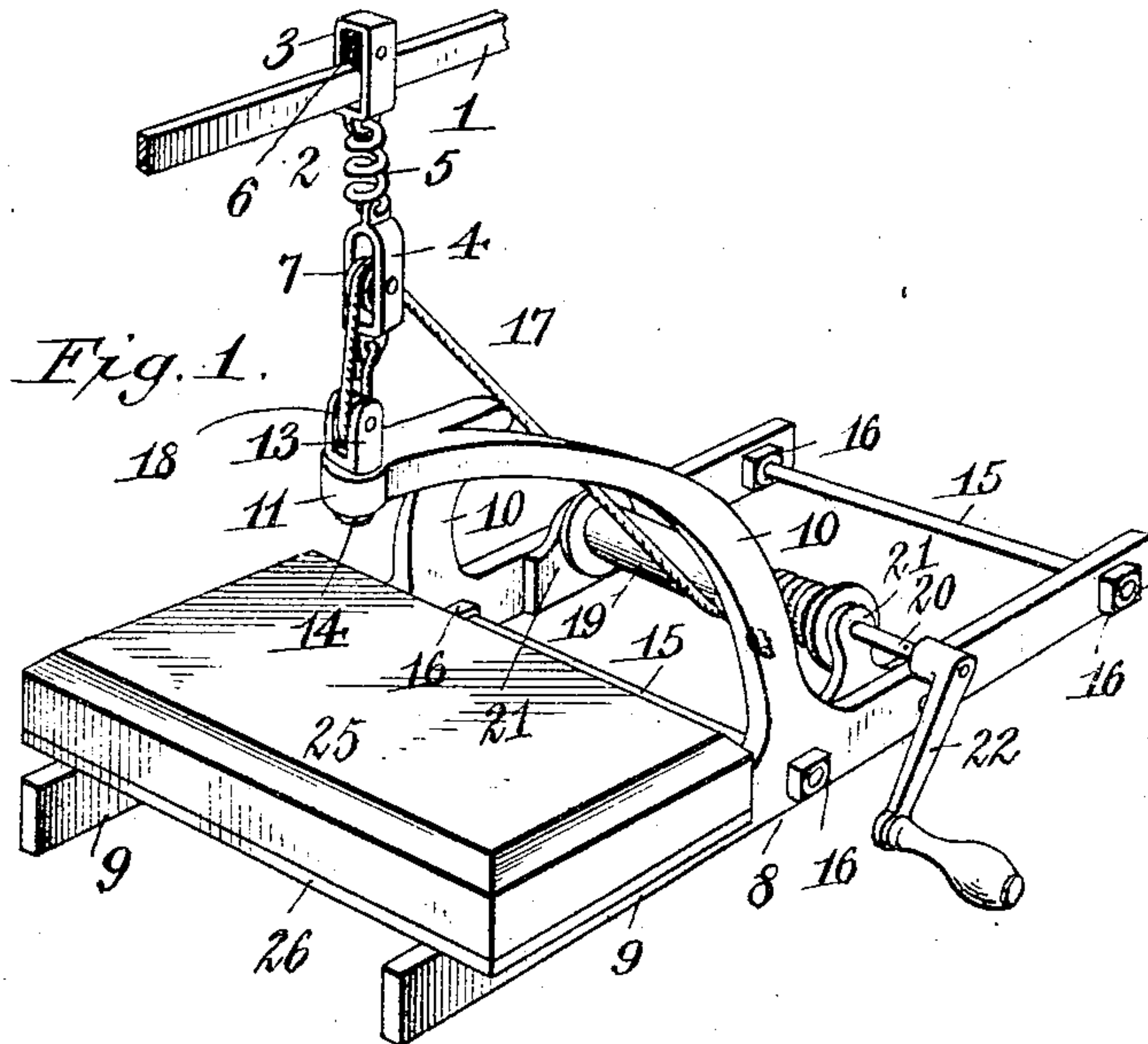
No. 841,137.

PATENTED JAN. 15, 1907.

G. F. FISHER.

BLOCK LIFTING AND CARRYING APPARATUS.

APPLICATION FILED MAR. 21, 1906.



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UNITED STATES PATENT OFFICE.

GEORGE F. FISHER, OF NORTH TONAWANDA, NEW YORK.

BLOCK LIFTING AND CARRYING APPARATUS.

No. 841,137.

Specification of Letters Patent.

Patented Jan. 15, 1907.

Application filed March 21, 1906. Serial No. 307,231.

To all whom it may concern:

Be it known that I, GEORGE F. FISHER, a citizen of the United States, residing at North Tonawanda, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Block Lifting and Carrying Apparatus, of which the following is a specification.

My invention relates to a device for lifting and carrying objects, particularly building-blocks, newly molded and to be lifted from the molding-machine and transported to setting and drying racks.

The objects of my invention are the production of a simple, durable, and inexpensive device of the character described, in which a traveling hanger is associated with a supporting member capable of adjustment toward and from the hanger by the manipulation of a rope-reel carried by said supporting member and having coiled thereon a suspension-rope passing around sheaves in the hanger and a swivel-head on the supporting member, respectively; to provide means for relieving the object on the supporting member from jar, and to provide a lifting and carrying device which can be easily and conveniently controlled.

With these and other objects in view my invention consists in the construction, arrangement, and combination of parts to be hereinafter described, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the device suspended on an overhead supporting-track. Fig. 2 is a central longitudinal section of the device.

Corresponding numerals of reference refer to corresponding parts in both figures of the drawings.

The reference-numeral 1 designates a track, which may be of any suitable construction and supported in any desired manner.

2 designates a traveling hanger comprising a roller or wheel housing 3 and a sheave-block 4, connected by a coil-spring 5 to provide the necessary resiliency. Within the housing 3 is a grooved roller or wheel 6, which travels along the track and renders the device transportable, and revolvably mounted within the sheave-block 4 is a rope-sheave 7.

A block-supporting member 8 is suspended from the hanger in a manner to be presently described. Said supporting member com-

prises two longitudinal side bars 9, having upwardly and forwardly curved arms 10, terminating in a single cylindrical head 11, having an aperture for the reception of the stem 12 of a sheave-swivel 13, held in said head by a nut 14, applied to the projecting end of said stem. For the purpose of properly spacing the side bars and rigidly connecting them, transverse rods 15 are passed through the same and have their ends threaded, nuts 16 being applied to the rods on opposite sides of each bar to prevent springing of the latter.

Secured at one end to the lower end of the hanger is a lifting and supporting rope 17, which passes underneath a sheave 18 in the sheave-swivel 13, thence up and over the sheave 7 in the sheave-block 4, thence downward and rearward onto and around a rope-reel 19, to which the opposite end of said rope is secured. Said rope-reel is affixed to a shaft 20, journaled in brackets 21, secured to the side bars of the supporting member in rear of the upwardly and forwardly curved arms thereof. To one end of said shaft a crank 22 is secured, whereby the reel is revolved to cause the rope to be wound thereon or unwound therefrom for the purpose of elevating or lowering the supporting member of the device.

As this invention is particularly designed for lifting and transporting newly-molded concrete building-blocks, I have illustrated in connection therewith the upper portion of a mold, designated "23," and lifters 24, thrust upward through the mold to elevate a block 25 and the platen 26, on which the block is supported above the upper end of the mold.

It is to be noted that at the front half of the supporting member the side bars 9 are unconnected, so that they may be passed between the lifters and underneath the platen on which the block is supported; also, that the upwardly and forwardly curved arms 10 terminate directly above a building-block, so that the point of connection of the supporting-rope is directly over the load. In this manner the entire weight is carried by the rope, so that the device can be easily operated without exertion or inconvenience.

After a building-block is ejected above the mold, as shown in Fig. 2, the device is moved forward to bring the front end of the supporting member underneath the block and its platen. The rope-reel is then revolved to

elevate the block, after which the device may be drawn to any desired point within range of the overhead track and the rope-reel revolved to elevate the supporting member still farther or to lower the same, as conditions may demand, in delivering the blocks onto the drying-racks.

Having thus described my invention, what I claim is—

10 1. In a lifting and carrying device, the combination with an overhead track, of a hanger comprising a wheel-housing having a grooved wheel riding said track, a sheave-
15 block provided with a rope-sheave, and a coil-spring between said wheel-housing and said sheave-block, a supporting member, and a lifting and supporting rope passing over said rope-sheave and connected with the supporting member to permit of elevating and
20 lowering the latter.

2. In a lifting and carrying device, the combination with an overhead track having a traveling hanger thereon, of a supporting member comprising side bars having up-
25 wardly and forwardly curved arms terminating in a single head, a rope-reel carried on said supporting member, a rope secured at

one end to said rope-reel and connecting said hanger with the supporting member, so that the latter may be elevated or lowered when revolving the rope-reel.

3. In a lifting and carrying device, the combination with an overhead track having a traveling hanger provided with a rope-sheave, of a supporting member comprising
35 side bars having upwardly and forwardly curved arms terminating in a single head and rods connecting said side bars, a sheave-swivel in said head having a rope-sheave, a rope-reel revoluble on the supporting mem-
40 ber in rear of the upwardly and forwardly curved arms, and a lifting and supporting rope having opposite ends secured to the hanger and the rope-reel, respectively, and passing around the sheave in the sheave-
45 swivel.

In testimony whereof I have affixed my signature in the presence of two subscribing witnesses.

GEORGE F. FISHER.

Witnesses:

MAY F. SEWERT,
EMIL NEUHART.