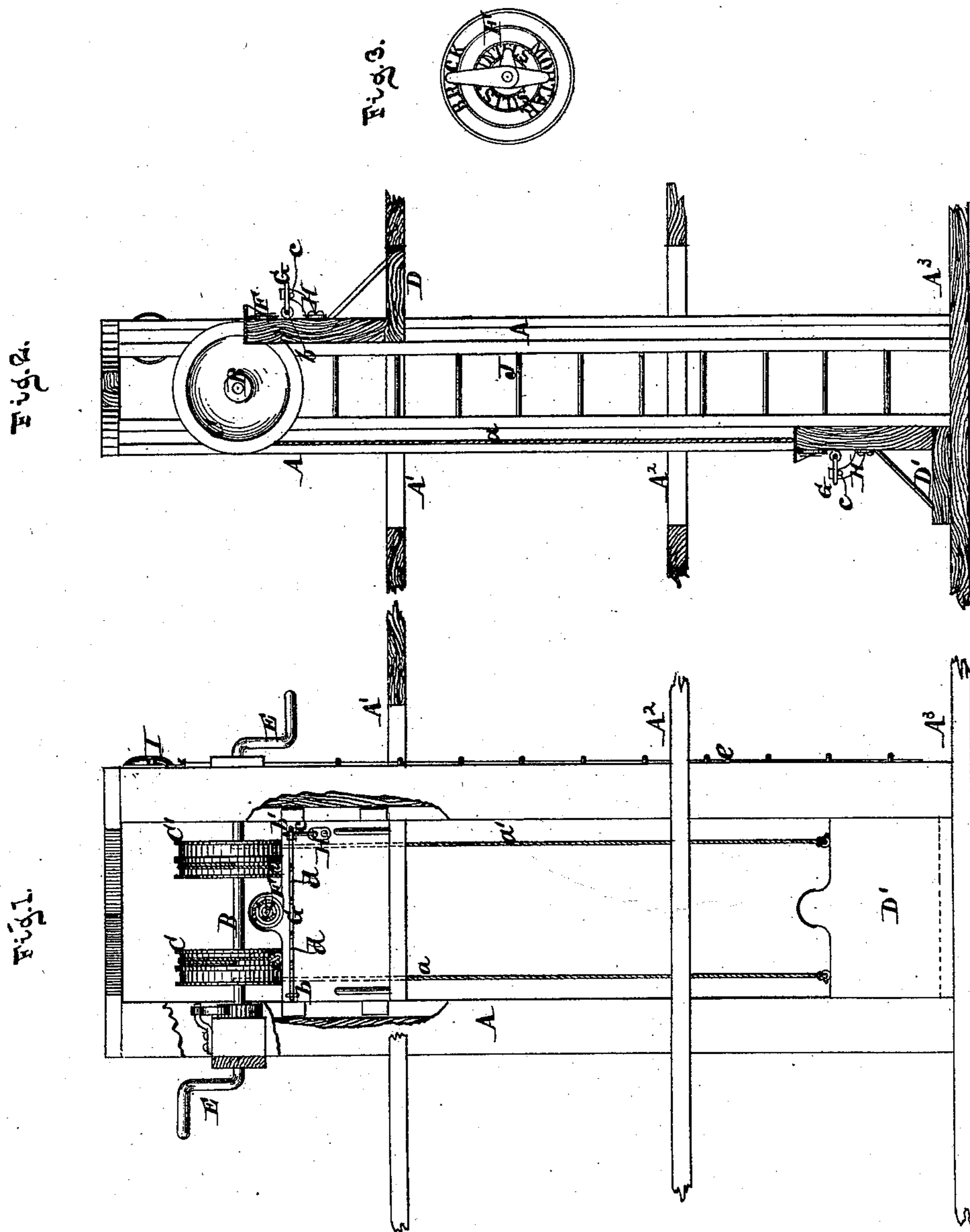


T. O'HAGAN.  
ELEVATOR.

No. 176,986.

Patented May 2, 1876.



Witnesses.

Otto Hufeland  
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# UNITED STATES PATENT OFFICE.

THOMAS O'HAGAN, OF NEW YORK, N. Y.

## IMPROVEMENT IN ELEVATORS.

Specification forming part of Letters Patent No. 176,986, dated May 2, 1876; application filed April 12, 1876.

*To all whom it may concern:*

Be it known that I, THOMAS O'HAGAN, of the city, county, and State of New York, have invented a new and useful Improvement in Portable Elevators, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side elevation of my improvement, partly in section. Fig. 2 is a cross-section of the same. Fig. 3 is a front view of the indicator detached.

Similar letters indicate corresponding parts.

My improvement relates especially to that class of elevators to be used in buildings in process of construction, for elevating the different materials that may be required in the upper stories; and it consists in combining, with the platform of such elevators, an index which is so made that it can be set by a workman in the upper part of the house, to indicate to another workman on the ground-floor the kind or kinds of material required to be elevated—whether brick, mortar, sills and lintels, or other material. It consists, also, in combining with the platform a hinged rack, for receiving and holding the hods commonly used for carrying mortar and bricks, such rack being so constructed that it can be retained in a horizontal or other position in which it is best adapted to receive and hold the hods, and being hinged in such a way that it has a tendency to swing downward; hence, if the rack is so constructed that when it is loosened, so as to permit it to swing downward, it clears the hods, the latter are automatically released, while the rack is brought out of the way.

In the drawing, the letter A designates the frame of my elevator, and A<sup>1</sup>, A<sup>2</sup>, and A<sup>3</sup> are the floors of a building. In the upper part of the frame A is mounted a shaft, B, carrying two drums, C C', over which pass ropes or chains a a'. To one end of each of these ropes or chains is secured a platform, D, while to the other end thereof is secured a second platform, D', in such a manner that by imparting a revolving motion to the shaft B the one platform is caused to descend, while the other is elevated. The platforms are guided in suitable ways formed in the frame A, and to the shaft B are secured cranks E, for the purpose

of turning it. With the platform D is combined an index, F, composed of a dial-face and a series of indicating-hands, as clearly shown in Fig. 3. The dial-face of the indicator is, in this example, divided into rings, marked, respectively, "Brick," "Mortar," and "Sills and Lintels;" but it is obvious that it can be divided and marked in any way, and, if desired, the index may be marked with figures, to indicate the quantity of each kind of material required. By combining an index of this nature with either or both the platforms D D', a workman in the upper part of the building in which my elevator may be used can, by setting the index accordingly, on the descent of the platform, indicate or convey to another workman on the ground-floor, or any other floor below, what kind or kinds of material are needed. The platforms are each provided with a vertical wall, and to the wall of the platform D the index F is fastened. The wall of the platform D' carries a hod-rack, G, which is connected to such wall by means of hinge-joints b b'. At one end of this rack G is situated a bracket, H, which has a hole formed in it, as at c, Fig. 2. When the rack G is swung up a sufficient distance, so that a pin passed through the hole c in the bracket H comes under the rack, the latter is thereby firmly held in position, while, when this pin is removed, the rack falls downward by its own weight. The hole c in the bracket H is so made that when the rack F is held up by a pin passed through it the rack occupies a horizontal position, so that the hods can readily be placed therein. The rack is made with a series of recesses, d, in which the staffs of the hods are placed, and when the rack is allowed to swing downward these recesses clear the hods, so that the latter can be taken away without obstruction, the rack being, at the same time, brought into a narrow compass, and the platform being adapted to be used for carrying sills and lintels, and other materials besides bricks and mortar.

In practice I intend to combine the indicator F and the hinged rack G (either or both) with each of the platforms of the elevator, in case more than one platform is used.

If desired, an alarm-bell, I, may be secured to the upper part of the frame A, such bell having a cord, e, depending therefrom, as seen

in Fig. 1, and its object being to permit of calling the attention of the workman in the upper story of a building to the fact that the platform has been filled and is ready to be elevated. With the frame may also be combined a ladder, J.

It will be seen that by the application of the device or devices above enumerated to portable elevators for buildings their operation is greatly simplified.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the platform of a

portable elevator, of an index of the character herein described, for the purpose specified.

2. The combination, with the platform of a portable elevator, of a hinged hod-rack, constructed and arranged to operate substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 11th day of April, A. D. 1876.

THOMAS O'HAGAN. [L. S.]

Witnesses:

E. F. KASTENHUBER,  
CHAS. WAILERS.