

No. 103,313.

PATENTED MAY 24, 1870.

W. H. ELLIOTT.
DUMB WAITER,

Fig. 1

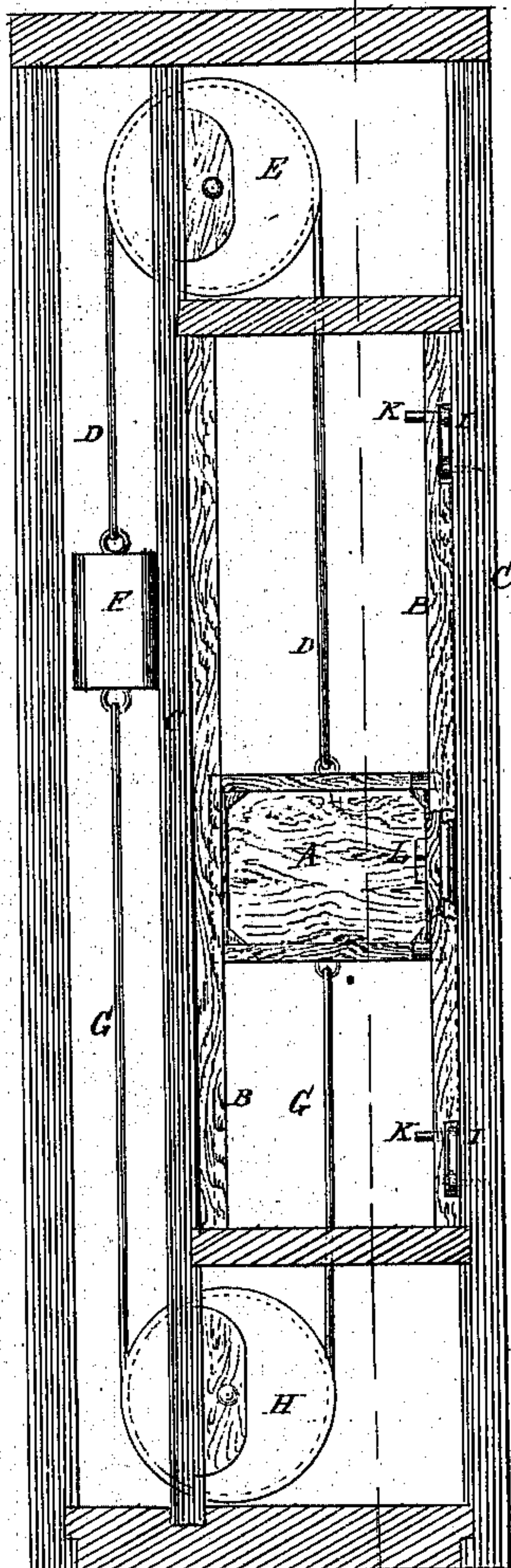
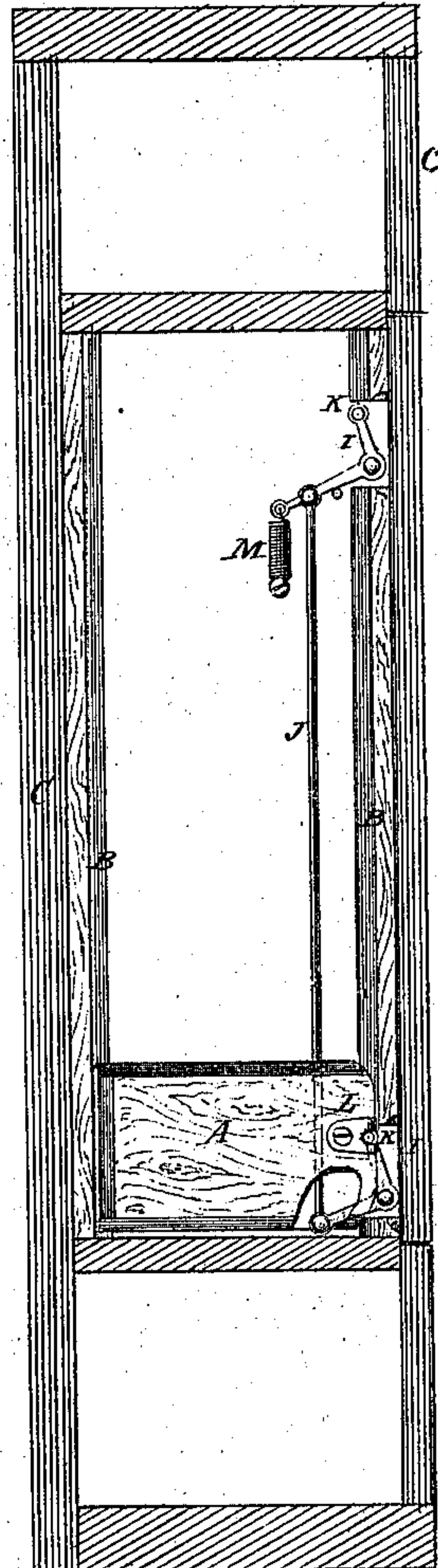


Fig. 2



Witnesses:

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WILLIAM H. ELLIOTT, OF BOSTON, MASSACHUSETTS.

IMPROVED DUMB-WAITER.

Specification forming part of Letters Patent No. 103,313, dated May 24, 1870.

To all whom it may concern:

Be it known that I, WILLIAM H. ELLIOTT, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Dumb-Waiters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a front view of my improved dumb-waiter. Fig. 2 is a vertical section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to improve the construction of dumb-waiters, so that they may be easily and conveniently raised and lowered to or from any story of the building and fastened and unfastened by any one upon any story, whether above or below the waiter, and which shall at the same time be simple in construction and easily operated; and it consists in the construction and combination of various parts of the machine, as hereinafter more fully described.

A represents the shelf, shelves, or closet of the dumb-waiter, which moves up and down upon ways B, attached to the frame or casing C of the well, in which the waiter is placed.

To the top of the shelf or box A is attached one end of a rope, D, which passes over a pulley, E, pivoted in the upper part of the well, and its other end is attached to the weight F, that balances the shelf or shelves A, and which moves up and down in a well chamber or space at the back or side of the well or chamber in which the said shelf or shelves move.

To the lower end of the weight F is attached one end of the rope G, which passes around a pulley, H, in the lower part of the well, and its other end is attached to the bottom of the shelf or shelves A, as shown in Fig. 1. By this construction a person in the upper part of the building may raise and lower the waiter by operating the upper rope, and a person in

the lower part of the building may raise and lower it by operating the lower rope.

I are right-angled levers, which are pivoted at their angles to the side casing or frame, C, of the well upon each floor or story of the building. The inner arms of the levers I are pivoted to a rod, J, that extends along the side of said casing from the bottom to the top of the building, so that all the levers I may be operated by operating the rod J upon any story or floor of the building. To the other end of the right-angled levers I are attached pins K, which, as the shelf or closet A moves past them, slide along the edge of said closet and drop into a notch or catch, L, formed in said edge, so as to stop and hold the said closet until released by again operating the rod J. The levers I K are held in position to catch upon the notch or catch L by the weight of the rod I, assisted, when necessary, by one or more springs, M, connected with the rod I or levers J, as shown in Fig. 2.

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

1. The combination of the rope G and pulley H with the shelf, shelves, or closet A, rope D, pulley E, and weight F, substantially in the manner herein shown and described, and for the purpose set forth.

2. The combination of the right-angled levers I K and rod J, whether the spring or springs M be used or not, and notch or catch L, with the shelf, shelves, or closet A, substantially as herein shown and described, and for the purpose set forth.

3. An improved dumb-waiter, formed by the combination of the shelf, shelves, or closet A, rope D, pulley F, weight E, rope G, pulley H, rod J, right-angled levers I K, and notch or catch L, whether the spring M be used or not, substantially as herein shown and described, and for the purpose set forth.

WILLIAM H. ELLIOTT.

Witnesses:

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