W. F. HOLSKE.

Dumb-Waiter.

No. 216,568. Patented June 17, 1879.

Fig. 1

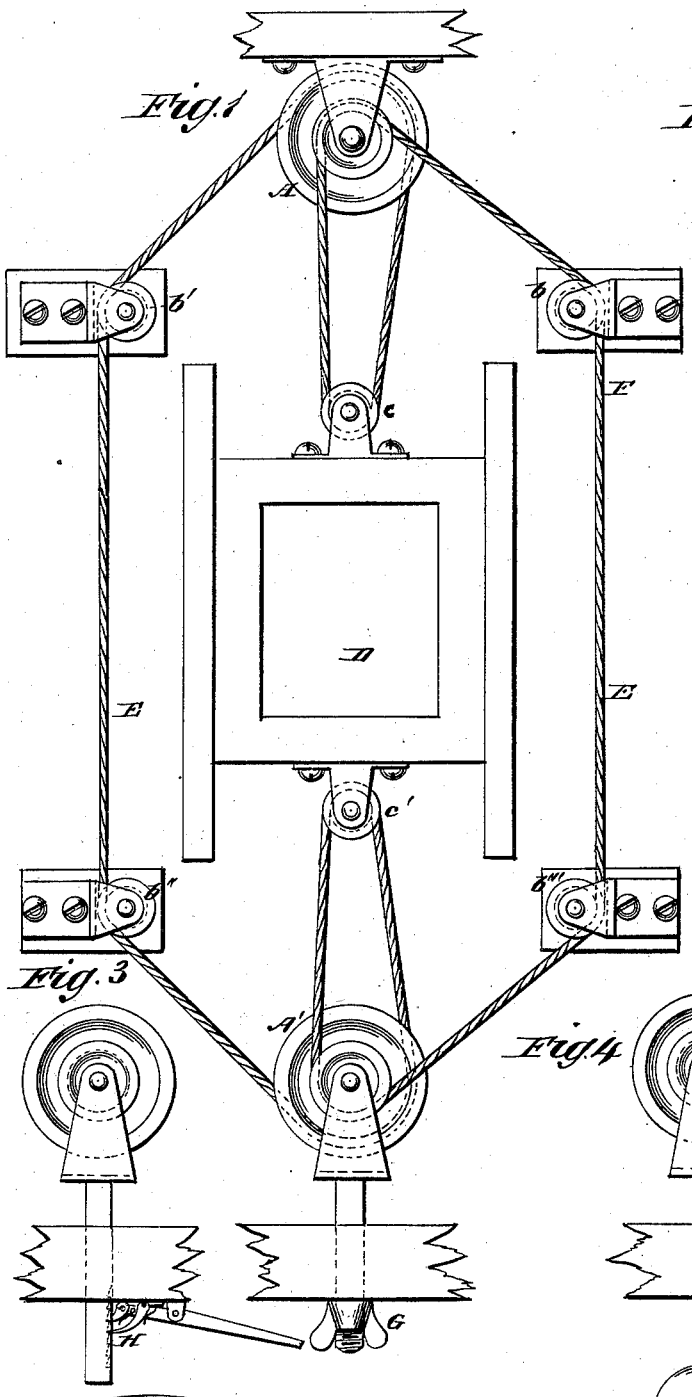



Fig. 2

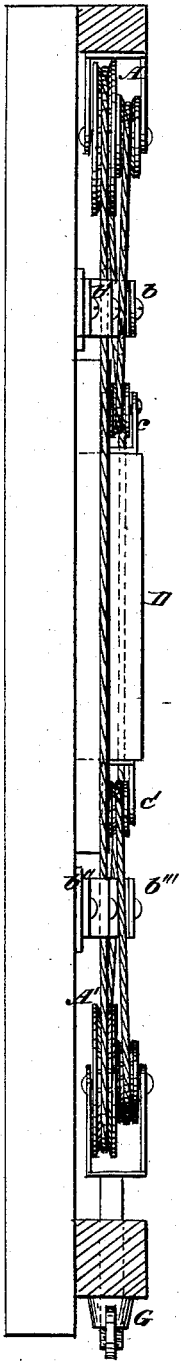
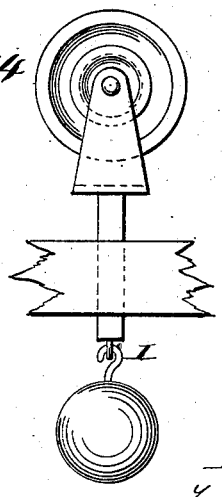



Fig. 3

Fig. 4




Witnesses,

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by

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN DUMB-WAITERS.

Specification forming part of Letters Patent No. **216,568**, dated June 17, 1879; application filed January 15, 1879.

*To all whom it may concern:*

Be it known that I, WILLIAM F. HOLSKE, of the city of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Dumb-Waiters, of which the following is a specification.

By this invention the counter-weight usually employed in connection with dumb-waiters is dispensed with. The counterbalancing of the platform and load is accomplished by a system of differential pulleys.

Referring to the drawings, Figure 1 is a front elevation of my improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a front elevation of the mode of adjusting the rope by means of a pawl and rack. Fig. 4 is a front elevation of the mode of adjustment by means of a weight.

Similar letters in the various figures refer to the same parts.

A and A′ are differential pulleys of the same sizes, one being permanent, and the other adjustable by means of a screw and nut, the shank sliding in a square socket, thus permitting the length of the rope to be adjusted at pleasure. In the drawings this adjustment is marked G, and shown as part of differential pulley A′. $b$ $b^1$ $b^2$ $b^3$ are simply guide-pulleys for the rope E. $c$ $c'$ are also pulleys for the rope E, and are permanently attached to the platform D. The rope E is an endless one, and runs around the pulleys as follows, viz: Commencing at a point, F, the rope E runs over the guide-pulley $b$ from the right; over the smaller part of the differential pulley A, also from the right; around the guide-pulley $c$ from the left, and then over the larger part of the differential pulley A from the right; then over the guide-pulleys $b^1$ and $b^2$ from the right, and over the larger part of the differential pulley A′ from the left; around the guide-pulley $c'$ from the right; then over the smaller part of the differential pulley A′ from the left, and then over the guide-pulley $b^3$ from the left to F, the point of beginning. G is the lower portion of the adjustable differential pulley A′, which can be either in the shape of a screw and nut, as G in Fig. 1, a rack and pawl, as H in Fig. 3, or a weight, as I in Fig. 4, neither of which modes I claim as my invention.

I do not confine myself in the application of the system of differential pulleys to dumb-waiters to the exact arrangement shown in the accompanying drawings.

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

The system of differential pulleys, one of them being adjustable, in combination with the platform of a dumb-waiter connected with said pulleys by an endless rope or chain, substantially as shown and described.

WM. F. HOLSKE.

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