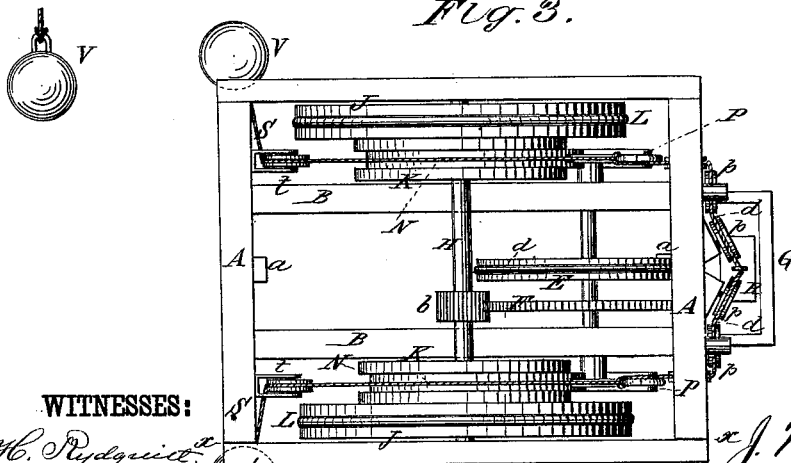
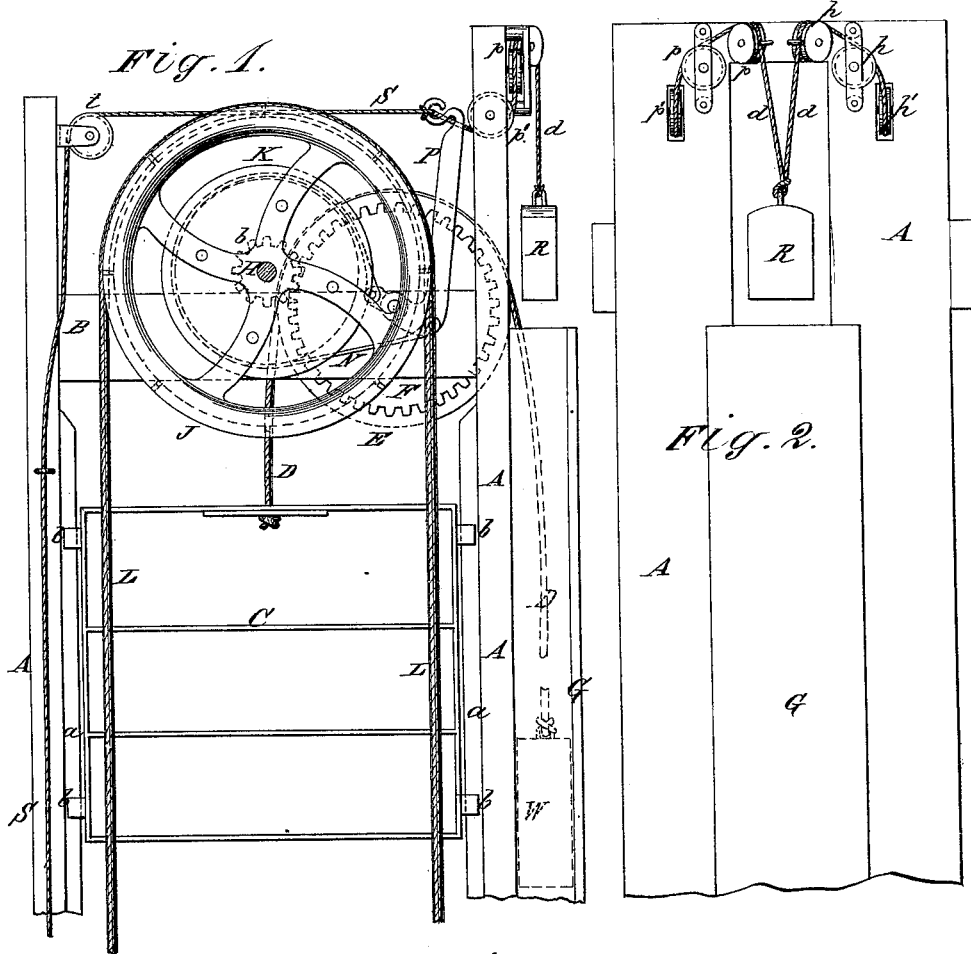


J. MURTAUGH.
DUMB-WAITERS.

No. 195,526.

Patented Sept. 25, 1877.



WITNESSES:

H. Rydquist
J. Scarborough

INVENTOR:

J. Murtaugh
BY *Murtaugh*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES MURTAUGH, OF NEW YORK, N. Y.

IMPROVEMENT IN DUMB-WAITERS.

Specification forming part of Letters Patent No. 195,526, dated September 25, 1877; application filed July 13, 1877.

To all whom it may concern:

Be it known that I, JAMES MURTAUGH, of the city, county, and State of New York, have invented a new and Improved Dumb-Waiter, of which the following is a specification:

This invention relates to that class of elevators known as "dumb-waiters;" and the nature of my invention consists in so constructing a dumb-waiter in a building that it can be conveniently used by different families residing in the several stories of the building and in adjacent apartments on the same "flats," as will be hereinafter explained.

In the annexed drawings, Figure 1 is a sectional elevation of one side of the improved dumb-waiter, showing the upper portion of the same. Fig. 2 is an end view. Fig. 3 is a top view.

Similar letters of reference indicate corresponding parts.

The letters A A designate the upright guides or frame of the improvement, which will extend from the basement or cellar of a building to the highest story thereof. In the center of each upright is a rib, *a*, which is embraced by lugs *b* on the cage C, thus guiding it in its vertical movements and keeping it steady.

The cage C is rectangular in form, and has a number of broad shelves. It is suspended by means of a rope, D, which passes over a grooved pulley, E, on a shaft carrying a spur-wheel, F. The rope D has a weight, W, secured to it, which is inclosed in a box, G, on the outside of one of the uprights A.

The spur-wheel F engages with a pinion, *b*, on a shaft, H, which has its bearings in horizontal beams B. On shaft H are keyed two large grooved pulleys, J J, and two grooved brake-wheels, K K. The pulleys J have short transverse ribs fixed across their grooved peripheries, to prevent the endless actuating-ropes L from slipping.

Around the brake-wheels K K are applied brake-straps N N, the ends of which are connected to the angular ends of levers P P, having their fulera on the horizontal beams B of the uprights A.

R designates a weight, which is suspended by two ropes, *d d*, which pass over pulleys *p* *p* and under grooved pulleys *p'*, and are attached to the upper ends of the brake-levers P P. The weight R hangs free, and acts on both levers to free the brake-straps from their wheels K K.

S S are ropes, which are attached to the upper ends of levers P P, carried over pulleys *t* *t*, and attached to weights V V, which are located in the basement of the building.

By pulling on one of the ropes S the brake-strap of the lever connected to such rope will be drawn tightly around its drum or wheel. At the same time weight R will be raised. When this weight R is released the weight V on the rope S opposite to that which was pulled will cause its lever to operate the brake-strap. Thus it will be seen that both brakes are brought into operation by drawing on either one of the ropes S.

By my invention a single elevator or dumb-waiter will answer for a number of tenants living in separate apartments.

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

The combination, with a dumb-waiter cage having lift and brake mechanism, substantially as described, of the weights suspended by ropes attached to the upper ends of levers P, as and for the purpose specified.

JAMES MURTAUGH.

Witnesses:

R. T. CAMPBELL,
C. SEDGWICK.