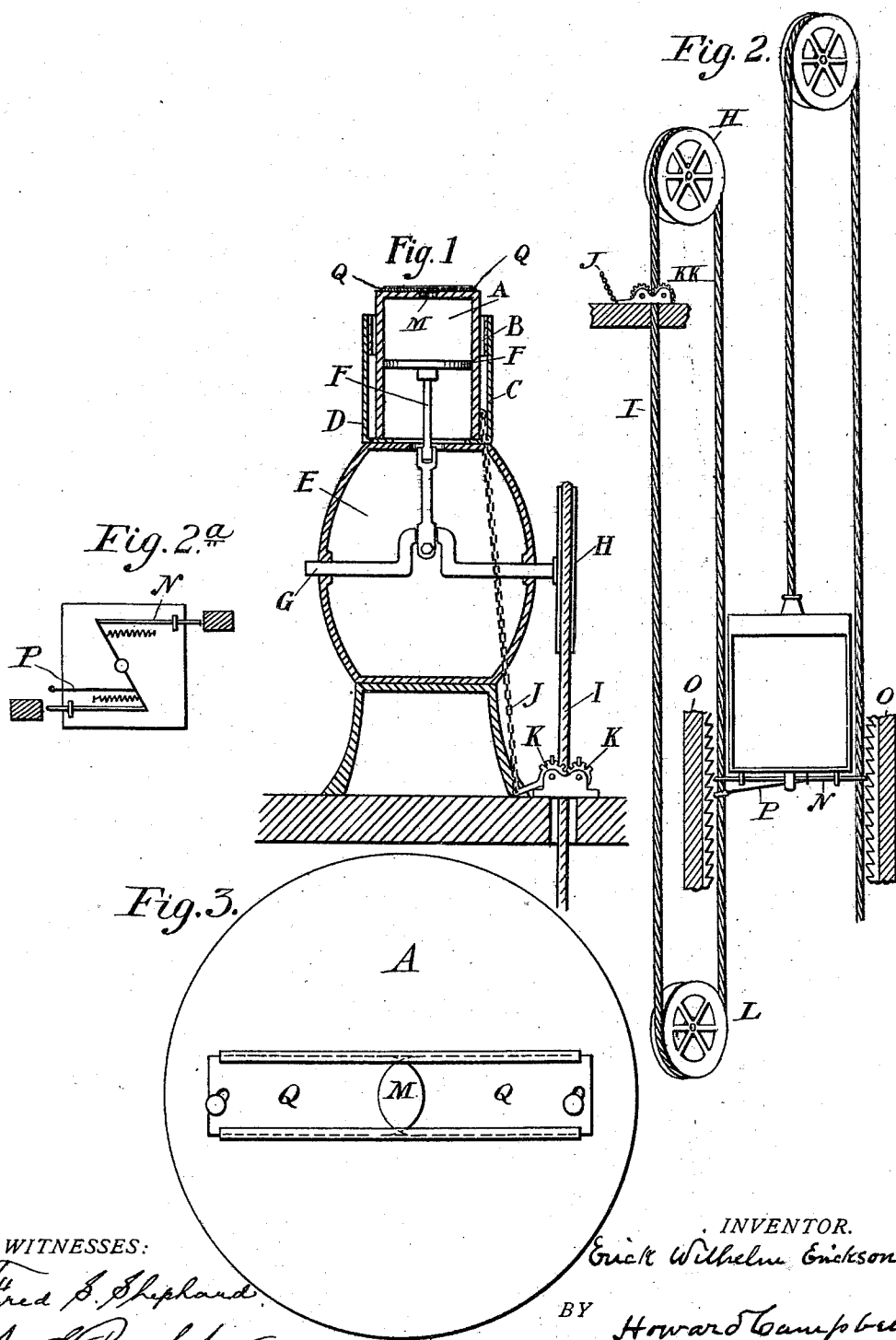


(No Model.)

E. W. ERICKSON.
ELEVATOR GOVERNOR.

No. 561,505.

Patented June 2, 1896.



WITNESSES:

Fred S. Shephard.
A. A. Boushette.

INVENTOR.

Erick Wilhelm Erickson

BY

Howard Campbell

ATTORNEY.

UNITED STATES PATENT OFFICE.

ERICK WILHELM ERICKSON, OF BROOKLYN, NEW YORK.

ELEVATOR-GOVERNOR.

SPECIFICATION forming part of Letters Patent No. 561,505, dated June 2, 1896.

Application filed September 21, 1895. Serial No. 563,207. (No model.)

To all whom it may concern:

Be it known that I, ERICK WILHELM ERICKSON, a citizen of the United States of America, and a resident of the city of Brooklyn, State of New York, have invented a new and useful Improvement in Elevator-Governors, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof.

Figure 1 shows a central sectional elevation of the governor. Fig. 2 is a view of an elevator, showing the connection between such elevator and the wheel on the shaft of the governor shown in Fig. 1. Fig. 2^A is a bottom plan view of the elevator-car. Fig. 3 is a plan view of the cylinder A.

A is a movable cylinder passing through the supporting-ring B, (which in turn is held in place by supports C and D,) and rests on top of the support E, but is separated from said support E by ends of supports C and D. The bottom of cylinder A and the top of cylinder E are open.

F F is a piston and rod connected with crank-shaft G, which passes through cylinder E, and H is a wheel attached thereto.

I is an endless cable passing over wheels H and L, situated, respectively, at the top and bottom of the elevator-shaft and connected with the safety-clutches N beneath the elevator-car by release-bar P.

J is a chain connecting the cylinder A with the clutches K K, between which passes the endless cable I.

O O are the ratchets extending from the top to the bottom of the elevator-shaft on either side of the elevator.

M is an opening in top of cylinder A, the diameter of which is regulated by slides Q Q, attached to the head of the cylinder.

When the governor is connected to an elevator by rope I, as described, the lifting or falling of the elevator will draw the said rope back and forth over wheel H, thus driving the piston in cylinder A by the revolution of crank-shaft G.

By adjusting the diameter of the opening M to suit the required speed of the elevator the piston will move up and down in cylinder A with little resistance, and the weight of the cylinder will suffice to hold itself stationary; but by a too great speed in the rise or fall of the elevator, by accident or otherwise, the accelerated speed of the piston will force the air in the top of cylinder A faster than it can escape through the opening M and the whole cylinder A will be raised and the chain J, drawn taut, will close clutches K K on rope I, which in turn will immediately release the safety-clutches of the elevator and stop it.

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

The combination in elevator-governors of the movable cylinder A having an adjustable opening M the supports B, C, D, and E, the piston and rod F, F, reciprocable in said cylinder, the crank-shaft G, the wheel H thereon, the cable I passing round said wheel H, the cable-clutches K K and chain J, connecting said cable-clutches to the cylinder A, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 20th day of September, 1895.

ERICK WILHELM ERICKSON. [L. s.]

Witnesses:

A. E. BRUSHABER,
WM. H. PRICE.