

T. STEBINS.

Improvement in Automatic Brake for Machines.

No. 132,113.

Patented Oct. 8, 1872.

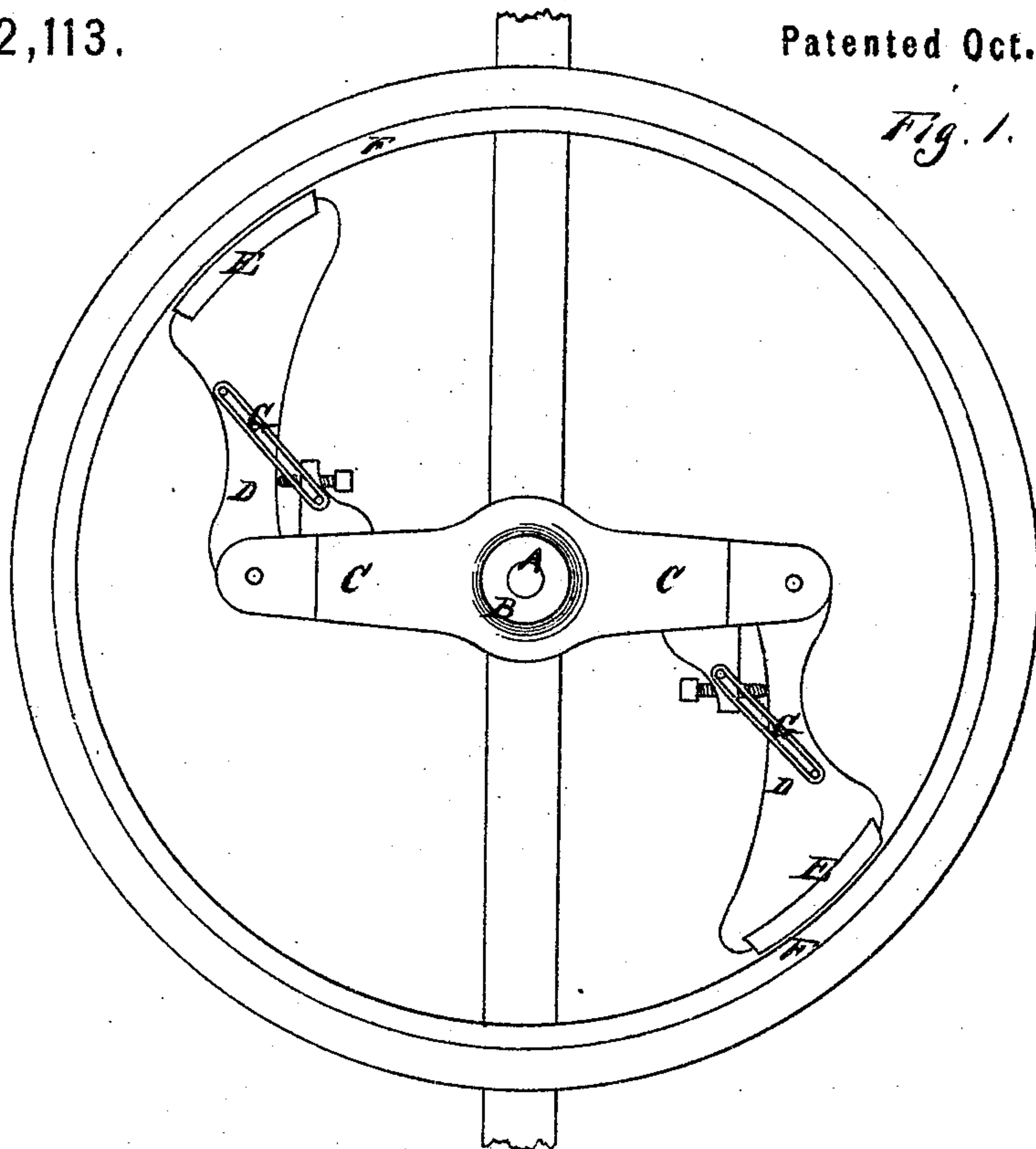


Fig. 1.

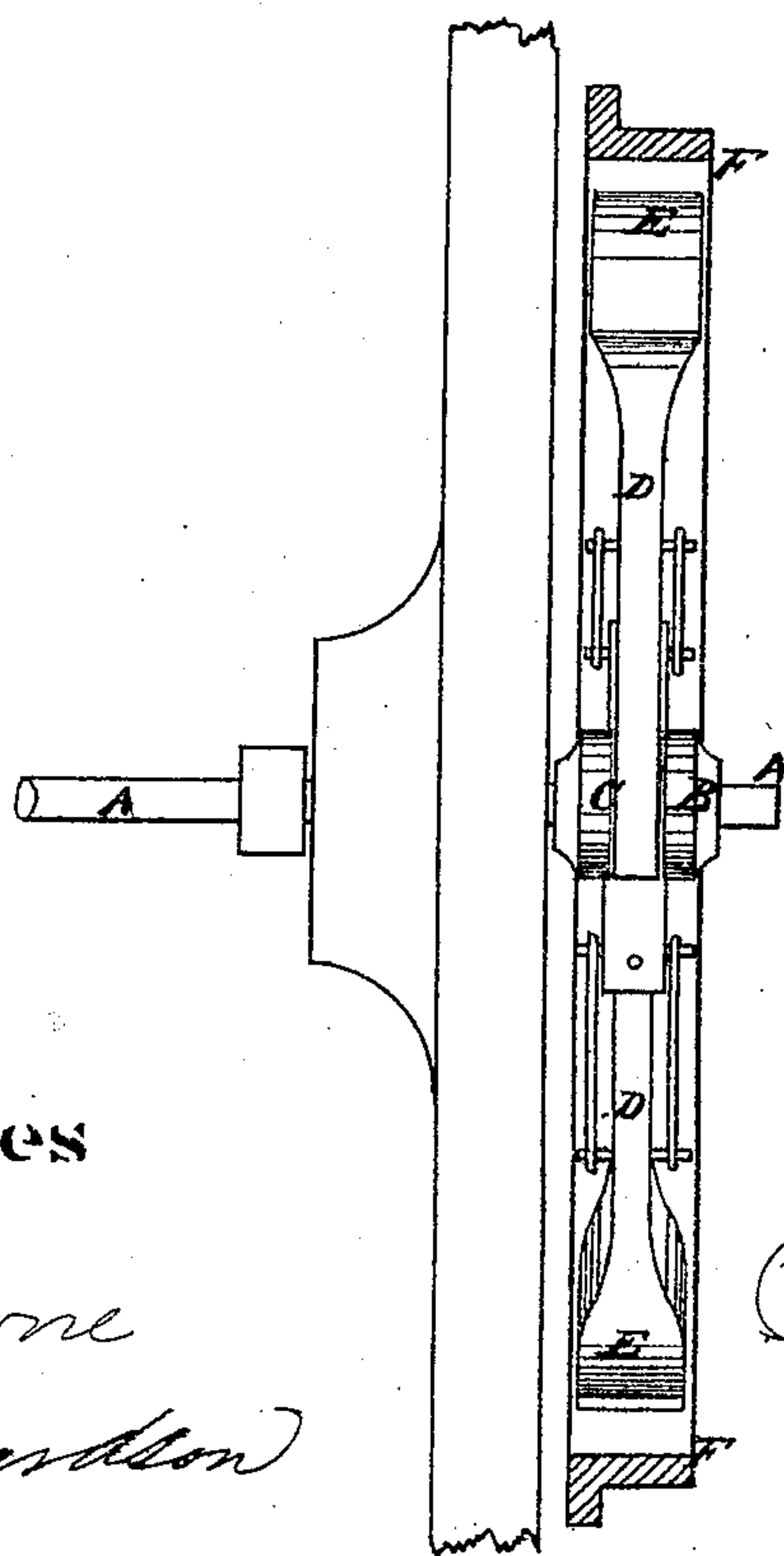


Fig. 2

Witnesses

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UNITED STATES PATENT OFFICE.

TIMOTHY STEBINS, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN AUTOMATIC BRAKES FOR MACHINERY.

Specification forming part of Letters Patent No. **132,113**, dated October 8, 1872.

To all whom it may concern:

Be it known that I, TIMOTHY STEBINS, of city and county of San Francisco, State of California, have invented an Improved Self-Acting Brake; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment.

The object of my invention is to provide an improved automatic brake or governor, which is more especially intended to be used in connection with elevators; and it consists in the employment of two or more shoes which rotate within a stationary rim. These shoes are so connected with their axle that any increase of speed beyond the desired point will cause the shoes to move outward so as to rub against the rim with more or less friction and thus retard the speed of the shaft and anything that may be connected with it.

Referring to the accompanying drawing for a more complete explanation of my invention, A is the shaft, which may receive motion from any suitable portion of the machinery to which the brake is applied, so that any increase or decrease of speed will be instantly communicated. This shaft has secured to it the hub B with arms C, as shown. To the outer ends of these arms the arms D, with the proper shoes E, are hinged, so that they rotate just

within the rim F. This rim is secured to some part of the frame so as to remain stationary. Suitable springs G are connected with the shoes or their arms D, and these springs are so arranged as to be adjustable. By the tension of the springs the speed of the machine is determined, and when the centrifugal force overcomes the spring, the shoes are thrown against the interior of the rim and thus the speed is checked, the degree depending upon the tension of the springs.

Various devices and modifications of the above may be employed with similar effect; but this is the most simple and economical.

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

1. The rim F, in combination with the arms D when the latter are constructed to move outward by their centrifugal force and cause the shoes E to press against the rim, substantially as and for the purpose described.

2. In combination with the rim F and the centrifugally-operating arms D, I claim the adjustable tension-springs G, substantially as and for the purpose above described.

In witness whereof I hereunto set my hand and seal.

TIMOTHY STEBINS. [L. S.]

Witnesses:

J. L. BOONE,
C. M. RICHARDSON.