

(No Model.)

N. H. POWER.

AUTOMATIC ADVERTISING DEVICE.

No. 282,925.

Patented Aug. 7, 1883.

Fig. 1.

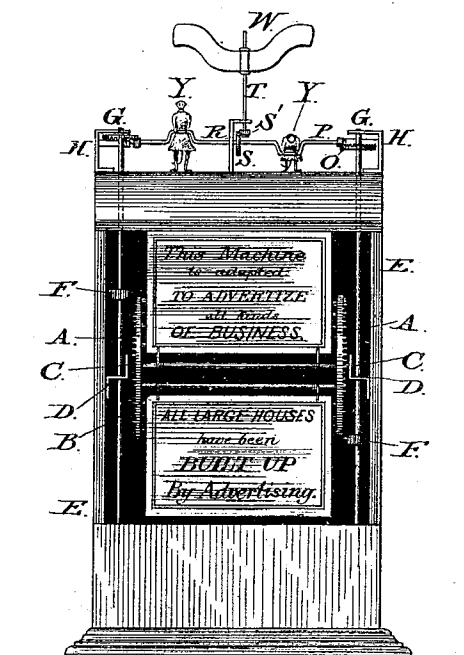


Fig. 2.

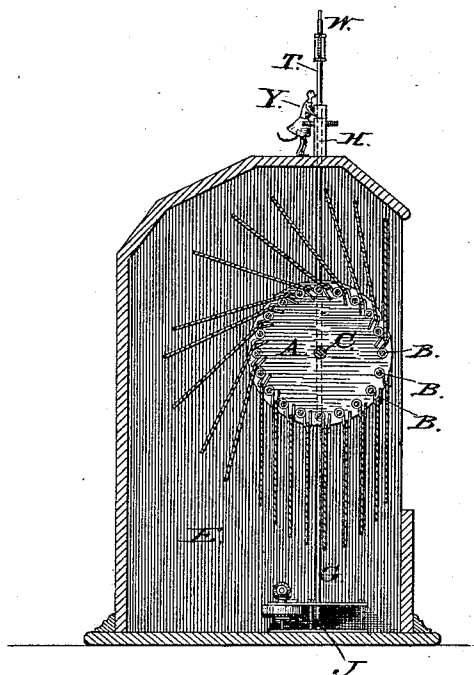
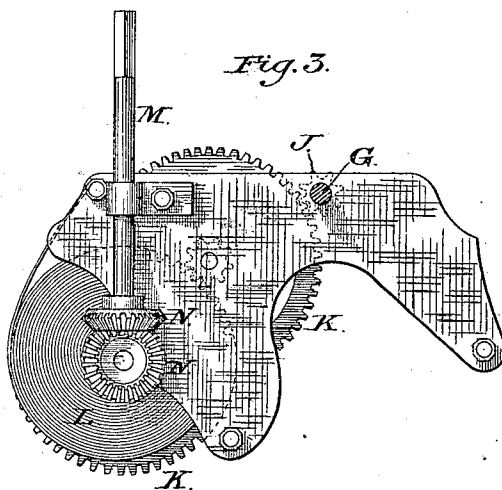


Fig. 3.



Witnesses:

John A. Ellis.
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UNITED STATES PATENT OFFICE.

NICHOLAS H. POWER, OF NEW YORK, N. Y.

AUTOMATIC ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 282,925, dated August 7, 1883.

Application filed December 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS H. POWER, of the city, county, and State of New York, have invented a new and useful Improvement in Automatic Advertising Devices; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improvement in automatic advertising devices, and has for its object simplifying and governing the movements of the device.

It consists in the combination, with a skeleton drum or revolving carrier from whose longitudinal arms the advertising-cards are suspended, of one or more coiled springs actuating a train of gearing in the base of the device to drive one or more vertical rods gearing with cogs or teeth on the ends of the carrier, and with a horizontal shaft on the top of the machine operating a fly by which the rate of movement may be regulated, and automations by which the usefulness and attractiveness of the machine is enhanced.

In the accompanying drawings, Figure 1 is a front elevation of my improved device. Fig. 2 is a central vertical transverse section thereof; and Fig. 3, a plan view of the driving-gear on an enlarged scale, the upright rod, connecting it with the revolving carrier, being cut in section.

A A are circular plates, connected by rods B B to form a skeleton cylinder or carrier. This cylindrical carrier A B is mounted upon a central shaft, C, supported at each end in bearings or brackets D, projecting from the sides of a casing, E, at or about midway the opening in the front of the casing. The outer face of each end plate, A, is toothed, so as to form a crown-wheel to engage a pinion, F, on a vertical spindle, G, stepped at its lower end in a suitable base-plate, and whose upper end projects through the top of the casing and is journaled in a suitable bracket, H, mounted thereon. A pinion, J, upon the lower end of the spindle G, meshes into a train of gearing, K K, actuated by a coiled spring, L. The spring is wound by means of a shaft, M, ar-

ranged to project through the side of the casing to be engaged by a key, and this shaft is geared by means of beveled pinions N N with the spindle, to which the inner end of the spring L is secured, and which is connected to the train of gearing by a pawl and ratchet in the usual manner. The upper end of the spindle is fitted with a contrate-wheel, O, gearing into a pinion upon a horizontal shaft, P, rotating in a central bearing at R, and which by means of a second contrate-wheel, S, and a pinion, S', is made to drive a central vertical spindle, T, upon which is placed a fly, W, whose vanes, impinging against the air in their revolution, meet with a resistance which serves to control and regulate the speed of rotation of the card-carrier A B. The horizontal shaft P is constructed with cranks, to which are pivoted or secured automaton figures Y Y, so that the shaft in its rotation is made to actuate said figures, adding thereby greatly to the attractiveness of the apparatus and its efficiency as an advertising device.

The advertising-cards to be displayed in the device are suspended from the transverse rods B B of the rotating card-carrier by means of hooks pivoted upon the rods to turn freely thereon. The device is set in motion by winding up the spring L, so that its resilient power shall produce, through the intervention of the gearing K K, a rotation of the spindle G, and consequently of the card-carrier A B and automaton Y Y, the rapidity of the movement in the device being governed and controlled by the resistance of the air to the rotation of the fly W.

I am aware that a rotating carrier adapted to the display of advertising-cards in manner as herein shown has heretofore been described and patented. My improvement relates to the means for producing and controlling the movement of said carrier.

I claim as my invention—

1. The combination, in an automatic advertising device with a rotating carrier, A B, for advertising-cards, of one or more vertical spindles, G, gearing with contrate-wheels O, a pinion on shaft P, and a train of gearing actuated by a spring, L, in the base of the device, and a spindle carrying a fly, W, on the top of the

device, substantially in the manner and for the purpose herein described.

2. The combination, in an automatic advertising device with a spindle, G, driven by a
5 train of gearing actuated by a spring, L, in the base of the device, and actuating a rotating carrier, A B, adapted to the display of advertising-cards, and with a shaft, P, rotating horizontally upon the top of the device and
10 geared to said spindle G, of one or more automaton, Y Y, connected with said horizon-

tal shaft to be set in motion thereby, substantially in the manner and for the purpose herein set forth.

In testimony whereof I have signed my name 15 to this specification in the presence of two subscribing witnesses.

NICHOLAS H. POWER.

Witnesses:

J. T. ACKER, Jr.,
J. A. ELLIS.