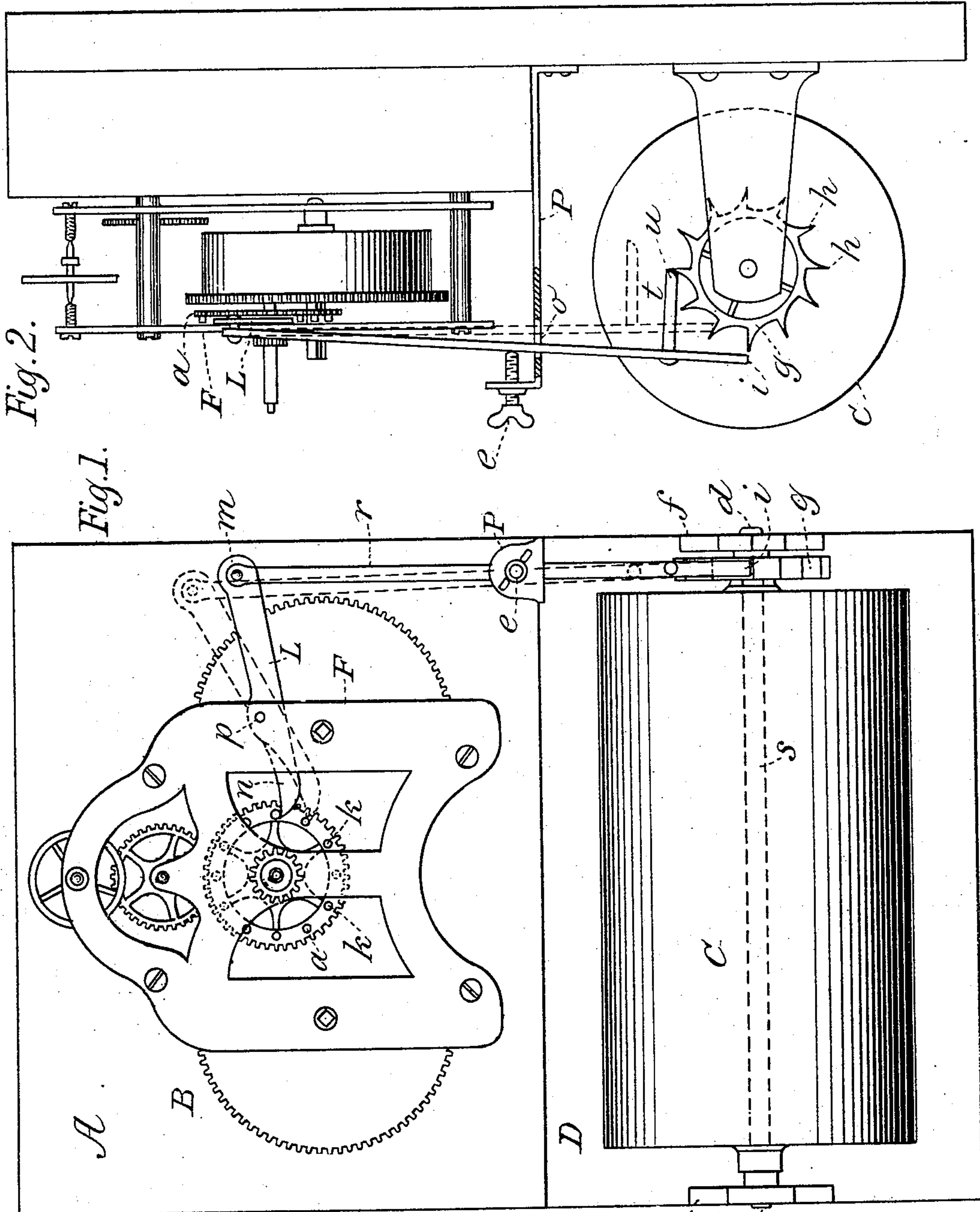


(No Model.)

B. H. MAY & J. H. MORRISSEY.  
AUTOMATIC ADVERTISING DEVICE.

No. 528,334.

Patented Oct. 30, 1894.



Witnesses:

Wm F Rupp  
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Bernard H. May  
John H. Morrissey  
by Fred. Arto's  
att'y.



# UNITED STATES PATENT OFFICE.

BERNARD H. MAY AND JOHN H. MORRISSEY, OF CHICAGO, ILLINOIS.

## AUTOMATIC ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 528,334, dated October 30, 1894.

Application filed February 6, 1892. Renewed April 9, 1894. Serial No. 506,956. (No model.)

*To all whom it may concern:*

Be it known that we, BERNARD H. MAY, a citizen of the United States, and JOHN H. MORRISSEY, a subject of the Queen of England, both residing at Chicago, in the county of Cook and State of Illinois, have jointly invented a new and useful Improvement in Automatic Advertising Devices, of which the following is a description, reference being had to the accompanying drawings, the same forming part of this specification.

Our invention consists in the construction of a novel advertising apparatus in combination with a clock mechanism to produce revolving motion at certain intervals for exhibiting a collection of printed or painted matter.

Referring to the drawings—Figure 1 represents the apparatus in front elevation, and Fig. 2 shows a side-view of the same.

In describing our invention, an advertising device, A, represents the rear part of a box, the upper portion of which bears a clock-work B, of common construction including a studded time-wheel  $\alpha$ , which is the means for operating the apparatus D, designed for advertising purposes. Said apparatus is located below the clockwork and consists of a cylinder C, of suitable size and selected material, provided with a spindle  $s$ , fastened in center of the same and turning with its endwise projecting journals  $d, d$ , in horizontal position on supporting brackets  $f, f$ , secured to the rear part A. One end of the said spindle is mounted with a ratchet-wheel  $g$ , which is of the same diameter as the time-wheel  $\alpha$ , and bears a number of equally spaced teeth  $h, h$ , in accordance with the studs  $k, k$ , of the time wheel. This arrangement is necessary to secure a regulated revolving motion of the cylinder for exposing to view diverse selected advertising matters in consecutive order painted or otherwise shown on the circumference of the same for a calculated space of time, which depends on the coinciding distance between the studs on the face of the time-wheel and the teeth of the ratchet wheel.

To accomplish the action of temporarily revolving the cylinder, an iron rod  $r$  in connection with a lever L, is employed, which latter turns on a pivot  $p$ , on the frame F of

the clock work, at a distance on a plane with the time-wheel, and with its concave shaped front-end  $n$  engaged with one of the studs of the same, while the rear end  $m$  of the said lever bears the aforementioned iron rod in suspended position, whereby the foot end  $i$  of the same is in contact with the flat surface of one of the teeth of the ratchet wheel, and by the movement of the time-wheel, the stud  $n$  gets disengaged with the lever, and the lower end of the iron rod drops down and pushes one of the teeth downward, causing it to turn the cylinder at a space to expose the text of an inscription on the cylinder through an opening in front of the box, but not shown in the drawings.

To stop the forward motion of the ratchet wheel after a turn, the iron rod  $r$  is provided at its lower portion with an arm  $t$ , which projects at a right angle a suitable distance from the axial line of the rod, to fit with the rounded end  $u$ , into the curved rear part of the teeth when brought to bear against the same, and the rod at that instant will be set in contact with the ratchet wheel, till the reciprocating movement of the lever raises the arm above the tooth and the iron rod moves by gravity and the weight of the arm again in position for repeating action, and to prevent the said iron rod from turning too far away from the ratchet wheel, a flanged guide-plate P fastened to the rear part of the box beneath the clockwork is provided, having an angle opening  $o$ , through which the rod passes, and to adjust the space between the rod and the ratchet wheel, an adjusting screw  $e$  on the flanged part of the guide plate will keep the rod in required position.

Having thus described our invention, we claim—

1. In an automatic advertising device, the combination of a suitable supporting frame, a clock operating mechanism having a time wheel provided with spaced studs, a revoluble advertising cylinder provided with a ratchet wheel, a lever pivoted on the supporting frame and adapted to be articulated by the time wheel, a rod connected to the outer end of the pivoted lever and adapted by its gravity to fall and strike one of the teeth of the ratchet wheel of the advertising



cylinder and revolve said cylinder, and to be raised again by the time wheel, substantially as described.

2. In an automatic advertising device, the  
5 combination of a suitable supporting frame, a clock operating mechanism having a time wheel provided with spaced studs, a revolu-  
ble advertising cylinder provided with a ratchet wheel, a lever pivoted on the sup-  
10 porting frame and adapted to be articulated by the time wheel, a rod pivotally connected to the outer end of the pivoted lever and provided with a stop and adapted by its  
gravity to fall and strike one of the teeth of  
15 the ratchet wheel of the advertising cylinder and revolve said cylinder, and to be raised again by the action of the time wheel, substantially as described.

3. In an automatic advertising device, the  
20 combination of a suitable supporting frame,

a clock operating mechanism having a time wheel provided with spaced studs, a revolu-  
ble advertising cylinder provided with a ratchet wheel, a lever pivoted on the frame and adapted to be articulated by the said 25  
time wheel, a rod pivotally connected to the outer end of the pivoted lever and provided with a stop, and a guide plate or bar provided with an elongated slot through which  
the rod passes, and an adjusting screw for 30  
regulating the lateral movement of the rod, substantially as described.

In testimony whereof we have hereunto set our signatures in the presence of two subscribing witnesses.

BERNARD H. MAY.  
JOHN H. MORRISSEY.

Attest:

FRED. ARTÓS,  
EDWARD BECK.