

E. A. G. ROULSTONE.
Advertising-Frames.

No.149,340.

Patented April 7, 1874.

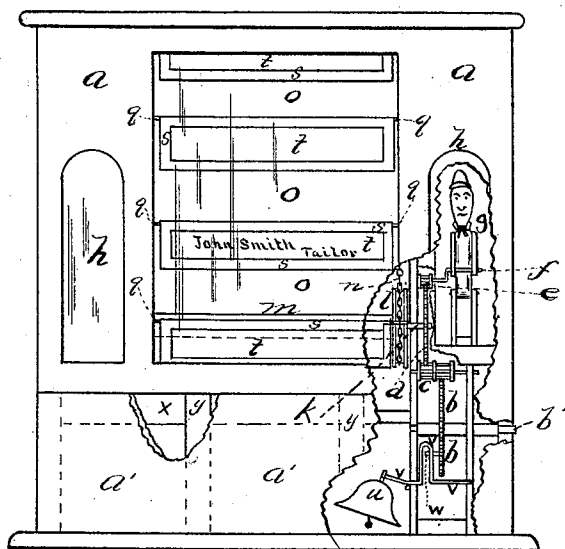


Fig. 1.

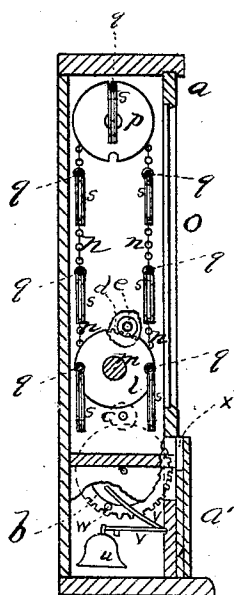


Fig. 2.

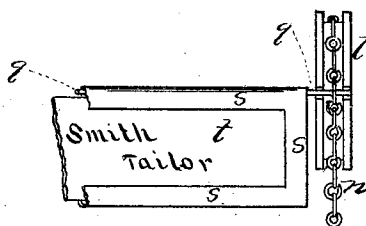


Fig. 3.

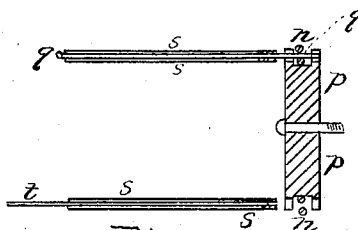


Fig. 4.

Witnesses
E. H. Ober.
C. V. Thayer.

Edward A. G. Roulstone Inventor

By his Atty's

Henry W. Williams Esq.

UNITED STATES PATENT OFFICE.

EDWARD A. G. ROULSTONE, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF
ONE-HALF HIS RIGHT TO FRANK L. FORD, OF SAME PLACE.

IMPROVEMENT IN ADVERTISING-FRAMES.

Specification forming part of Letters Patent No. **149,340**, dated April 7, 1874; application filed
January 20, 1874.

To all whom it may concern:

Be it known that I, EDWARD A. G. ROULSTONE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Advertising-Frames, of which the following is a full, clear, and exact specification, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature and objects of this invention are fully described below.

In the accompanying drawings, Figure 1 is a front elevation of my device. A large portion of the frame is represented as broken out in order to exhibit the mechanism which actuates my device. A smaller portion is represented as broken out, so as to show a receptacle for cards, &c., below described. Fig. 2 is a vertical section of the same. A small portion is broken out in this figure in order to show the wheel operating upon the bell.

Similar letters of reference indicate corresponding parts.

a in the drawing is the front side of the frame, *a'* being the lower portion of the same. *b* is a spur-wheel, actuated, in this illustration, by a crank, which may turn its arbor *b'*. It is, however, intended that it shall be actuated by clock-work machinery to be wound up at stated intervals, so that my device may operate automatically. The spur-wheel *b* communicates motion to the spur-wheel *d* by means of the lantern-wheel *c*. Motion is communicated to the crank *f*, in the hands of the figure *g*, by means of the lantern-wheel *e*, into which the wheel *d* meshes. This figure *g* is set in a recess, *h*, and is represented as turning the crank, which is supposed to actuate the whole device. A duplicate of the said figure will be placed in the other recess *h*, and will be operated in a similar manner. The arbor *k*, which the spur-wheel *d* turns upon, also passes through the grooved wheel *l*, and causes the same to revolve. A shaft, *m*, connects the wheel *l* with a similar wheel upon the other side of the large chamber *o*, and imparts similar motion to the said wheel. An endless chain, *n*, or its equivalent, passes around the wheel *l* and connects it with the wheel *p* above, imparting motion to the same.

The same, in duplicate, will be found at the other side of the chamber *o*. Small metallic rods *q* stretch across the chamber from one side to the other at proper distances, the said rods *q* being supported by links in the chains *n*, through which they project. The rods support a metallic frame, *s*, into which slides an advertising-board, *t*, containing the advertisement of some person paying for the privilege.

Fig. 3 is an elevation of a portion of the advertising-card, frame, rod, wheel, &c.; and Fig. 4 is a horizontal section of the same, taken both through rod *q* and frame *s*, and also through the frame *s* and card *t*.

Thus it will be seen that when the wheel *b* is actuated the figures *g* work and the advertising-cards *t* rise slowly, pass up into sight, and then back, giving place for more, appearing and disappearing at regular intervals, and always hanging perpendicularly.

In order to call attention to the device, a bell or gong, *u*, is arranged to ring with each revolution of the wheel *b*. A short rod, *w*, projecting from the said wheel, lifts the bent lever *v*, to which the bell *u* is attached, with each revolution, sounding the said bell.

For the further convenience of advertisers, small compartments *x*, separated by partitions *y*, are placed in the lower portion of the frame *a'*, so that cards and the like may be deposited and exhibited therein.

In operating this invention, I do not propose to confine myself to an advertising-frame, in the strictest sense of the word, but propose to use this device as a show-frame, also. An easy way of making this change would be to remove the card *t* and frame *s* and hang over the rod *q* some styles of dry-goods, for example, or any other articles of merchandise.

Other uses and other changes will readily suggest themselves which will not be foreign to the principal parts of the invention.

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

1. The combination, with the wheels *l* *p* and endless chains *n*, of the rods *q*, frames *s*, and cards *t*, substantially as above described.

2. The combination, with the wheels *l* *d* *e*

and crank *f*, of the figure *g* in the recess *h*, operated as above set forth.

3. The combination of the bell *u*, lever *v*, rod *w*, and wheel *b*, as and for the purpose before specified.

4. In an advertising-frame, a series of independent advertising-sections, as represented by frames *s* and boards *t*, said sections being sus-

pended from rods *g*, supported by bearings at the ends in such a manner as to remain in a perpendicular position as they pass between the pulleys, substantially as described.

EDWARD A. G. ROULSTONE.

Witnesses:

HENRY W. WILLIAMS,
CHAS. V. THAYER.