S. W. COLTON.
Station Indicator.

No. 203,889. Patented May 21, 1878.

Fig. 1.

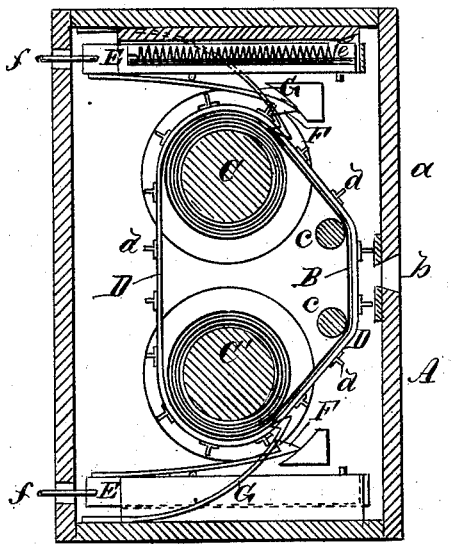
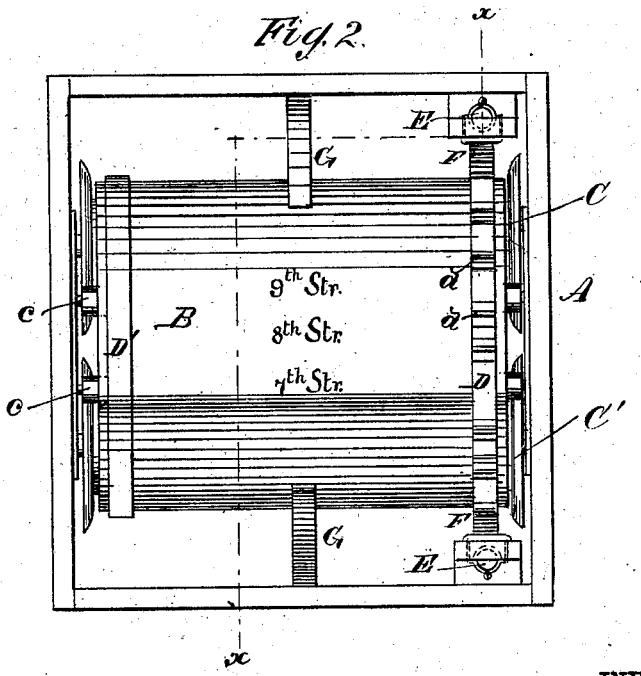


Fig. 2.



WITNESSES:

E. Wolff
J. W. Scarborough.

INVENTOR:

S. W. Colton.
BY Munn & Co
ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SABIN W. COLTON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN STATION-INDICATORS.

Specification forming part of Letters Patent No. **203,889**, dated May 21, 1878; application filed October 6, 1877.

To all whom it may concern:

Be it known that I, SABIN W. COLTON, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and Improved Street and Station Indicator, of which the following is a specification:

Figure 1 is a vertical transverse section of my improved indicator. Fig. 2 is a front elevation with the cover removed.

Similar letters of reference indicate corresponding parts.

The object of the invention is to provide an indicator for accurately indicating streets or stations.

In the drawings, A is a case having a cover, *a*, in which there is an aperture, *b;* and *c c* are rollers, journaled in the case in a horizontal position parallel with the cover *a*.

A strip or apron, B, of cloth, paper, or other material, on which are printed the names of streets or stations, is attached to one of the rolls, and is also attached to and wound upon the other. This strip or apron B, in the present case, passes over two rolls, *c*, placed near the front of the case and on opposite sides of the aperture *b*, to carry it nearer the front of the case and to increase friction, so that the strip B shall not move too easily; but it is not essential that these rollers should be used, except for greater certainty in operation.

A belt, D, of leather, rubber, or other suitable material, is stretched over the rollers C C′ covering the strip B, and is provided with metallic teeth *d*. The distance between the teeth corresponds to the distance between the names of the streets or stations printed upon the strip B.

A plain belt, D′, is also placed around the other end of the rolls C C′, to operate, in conjunction with the belt D, in causing the apron to move evenly over the rollers.

At the top and bottom of the case A sliding bars E are placed in suitable guides. These bars are drawn forward by the spring *e*, and may be drawn backward by pulling on the wire loops *f* connected with them. To each of the bars E a spring-pawl, F, is attached, which engages the teeth *d* whenever the bar E is drawn back.

A spring, G, bears upon each of the rolls in such manner that, when the apron is nearly unrolled from either of the rollers, it will catch in a notch in the roller to prevent the apron being torn from the roller by any further pulling.

By pulling the lower bar E the belt and printed strip are drawn downward, the latter being wound upon the roll C′. By pulling the upper bar the operation is reversed.

A bell may be attached, and mechanism may be provided for ringing it whenever the strip B is moved.

It will be seen that, as the space between the teeth on the endless belt corresponds with the space between the names of the stations or streets, and as the movement of the bar and pawl carries the belt through a certain distance, for every stroke the names of the stations will be brought accurately before the aperture *b* in the front of the case, without reference to the increased size of one the rolls and the diminution of the other roll, caused by the winding of the strip upon one and unwinding it from the other.

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

1. The combination, with rolls and case having aperture *b*, of the printed strip B, held at the edges by the belts D D′, that run continuously over all the rolls, as shown and described, so that the distance of rotation with each pull of the handle will be equal.

2. The springs G, in combination with the rolls C C′, substantially as and for the purpose herein specified.

SABIN W. COLTON.

Witnesses:
M. B. COLTON,
JNO. A. BELL.