

C. A. EVANS.
STATION-INDICATOR.

No. 170,539.

Patented Nov. 30, 1875.

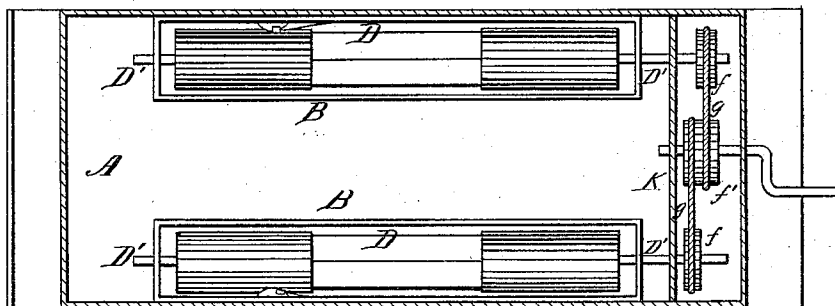


Fig. 1

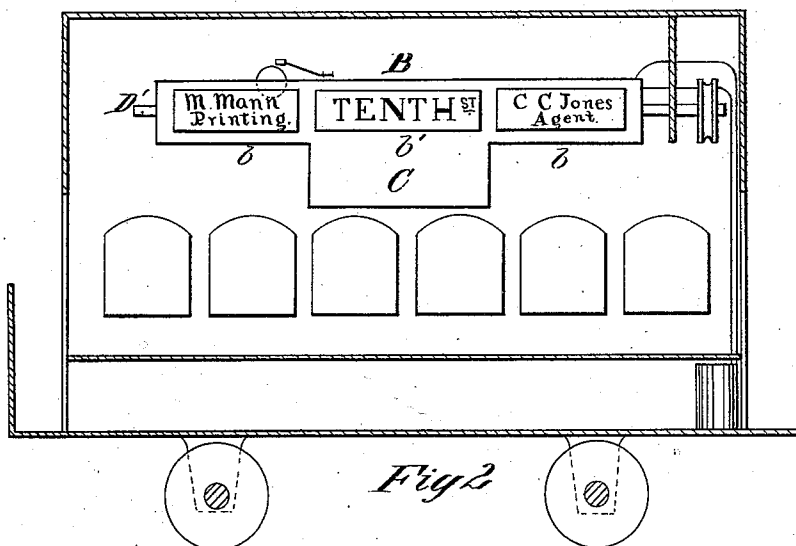


Fig. 2

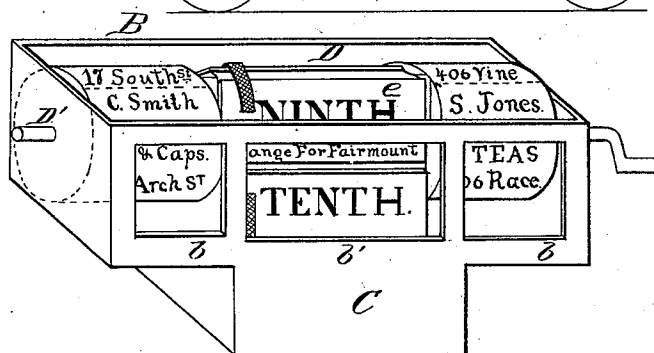


Fig. 3

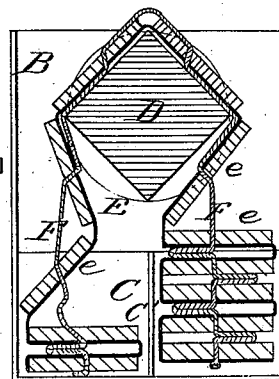


Fig. 4

Witnesses

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UNITED STATES PATENT OFFICE

CLARENCE A. EVANS, OF UPLAND, PENNSYLVANIA.

IMPROVEMENT IN STATION-INDICATORS.

Specification forming part of Letters Patent No. **170,539**, dated November 30, 1875; application filed April 28, 1875.

To all whom it may concern:

Be it known that I, CLARENCE A. EVANS, of Upland, in the county of Delaware and State of Pennsylvania, have invented a certain new and useful Improvement in Street or Station Indicators and Advertising Mediums; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a plan view of my invention. Fig. 2 is a side view. Fig. 3 is a perspective view, and Fig. 4 is a vertical transverse section.

This invention has relation to combined street or station indicators and advertising mediums for railroad-cars, and especially for street-cars; and it consists in the novel construction, arrangement, and combination of parts pertaining to an indicator, embracing as its principal features a horizontal roller, upon which the street or station names and the advertisements are exhibited; a band traveling over and upon said roller, and holding a number of cards upon which the streets or stations are successively painted or indicated; a box or case within which the roller rotates, and which has separate and distinct openings or windows, through which the advertisements and streets or stations are exhibited, and a system of mechanical devices, through which motion is given to one or more rollers from the end or any other convenient part of the vehicle, all as hereinafter more specifically described.

Referring to the accompanying drawings illustrating my invention, A represents a street-car, within which are appropriately arranged, one on either side, near the roof, two indicators. B B designate the indicator-boxes, having each in its front wall any number of openings or windows, *b b'*, corresponding, respectively, with the advertising and street or station indicating divisions of the roller. C is a cavity below the center of the box B, to contain the reserve portions of the indicator-band, with its cards deposited in said cavity as the roller rotates. D D designate the indicator-rollers, arranged within the boxes B B and upon shafts D' D', which project through the

boxes at one end, and have bearings at the adjacent end of the car.

Each roller is divided into several sections—for instance, three, as shown. The middle section is designed to support the indicator-band, and is, therefore, made rectangular in cross-section, having four surfaces corresponding to the indicator-cards, which are successively displayed upon the forward vertical surface, according as the roller turns.

The band E consists of a back of any suitable flexible material, as muslin or canvas, to which are attached, at short intervals, a number of cards, *e*, having printed thereon the names of the streets or stations which are to be exhibited successively. The cavity C, into which the band descends, and from which it is lifted, is divided, by a central longitudinal partition, C', into two compartments, from one of which the cards are lifted, while into the other they are dropped. When a car reaches the end of its journey the deposited cards are redisplayed by reversing the motion of the roller. As the cards are dropped from the roller they fall alternately forward and backward, folding together compactly and uniformly in pairs, face to face, or back to back.

In order to effect an even arrangement of the cards, I employ an elastic cord or ribbon, F, passing through or attached to the former, as shown, so as to intersect the joints alternately on opposite sides of the band. This will prevent the surfaces, which should lie in contact, from taking a different position.

The advertisements may be affixed to the end sections of the roller in any desirable or convenient manner.

Upon the shafts D' D', near their ends, pulleys *f f* are arranged. A pulley, *f'*, is also arranged centrally between the two, *f f*. The three are connected by means of belts or pulley-cords *g*, so as to transmit motion from the center one, the shaft of which is furnished with a crank, to be turned at proper intervals by the conductor. These pulleys and bands are concealed at the end of the car by a shield, K.

The rollers may be turned, if preferred, by any other mechanism than the pulleys and belts.

Having described my invention, I claim—

1. In a street or station indicator, a hori-

zontal roller, displaying at different points upon its periphery, respectively, the names of streets or stations and advertisements, in combination with a box, B, having separate openings or windows *b b'*, through which the streets and advertisements are, respectively, exhibited, substantially as described.

2. The elastic ribbon or cord F, in combination with the folding cards, as described.

3. The combination, with the indicator-rollers D, arranged horizontally within a car, and displaying the names of streets or stations, of the mechanism for imparting motion thereto, consisting of the pulleys *f*, attached to the roller-shafts, the intermediate pulley *f'*, cords

g, and crank-shaft, substantially as shown and described.

4. The roller D, having the central polygonal portion holding the indicator-band, and the cylindrical end portions displaying advertisements, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of April, 1875.

CLARENCE A. EVANS.

Witnesses:

THOS. A. CONNOLLY,
CHAS. F. VAN HOEN.