

F. N. CHASE.
Indicator.

No. 212,789.

Patented Mar. 4, 1879.

Fig. 1.

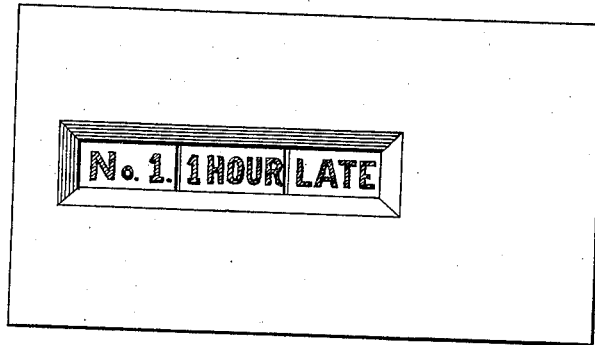


Fig. 2.

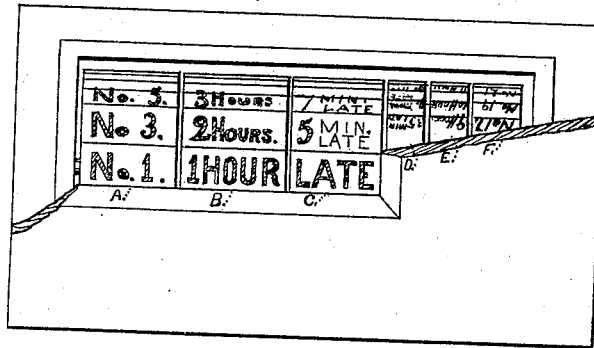


Fig. 3.

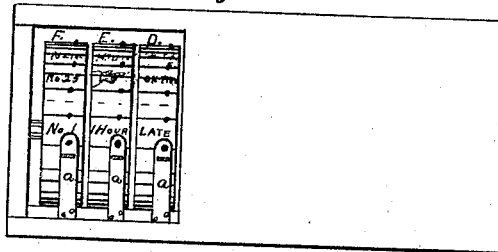
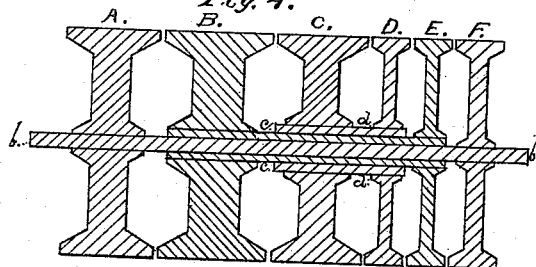


Fig. 4.



Witnesses:
James Burke
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UNITED STATES PATENT OFFICE.

FRANKLIN N. CHASE, OF BINGHAMTON, NEW YORK.

IMPROVEMENT IN INDICATORS.

Specification forming part of Letters Patent No. **212,789**, dated March 4, 1879; application filed November 10, 1877.

To all whom it may concern:

Be it known that I, FRANKLIN N. CHASE, of Binghamton, in the county of Broome and State of New York, have invented a new and useful Improvement in Railroad and Post-Office Indicators, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to enable a ticket-seller, telegraph-operator, or other railroad employé to correctly bulletin the situation of trains (whether on time or late, and, if late, how many hours or minutes) without leaving his office, or to enable a postmaster, in the same way, to bulletin expected mails, by the combination of cylinders, shafts, springs, and printed words and figures, as shown fully in the accompanying drawings.

Figure 1 is a perspective view of the indicator. Fig. 2 is a front view of a part of the cylinder, a portion of the front of the case being cut away. Fig. 3 is a view of the duplicate cylinders, showing the springs by which they are held at any desired point. Fig. 4 is sectional view of the cylinders and shafts.

A B C, Fig. 2, are three cylinders, six and three-quarter inches in diameter, and two and a half inches across the face, and made of either tin, wood, or iron, covered with white paper or Bristol board. On segments of the outer surface of A are printed the numbers of the trains, as "No. 1," "No. 2," &c., and also, if desired, the name by which a train is known, as "No. 5, Chicago Express;" also, for post-offices, the names of any mails desired, as "Albany mail."

On similar segments of B are printed, respectively, "1 hour," "2 hours," &c., up to ten hours; also on one segment the words "On time," and on another the word "Abandoned;" and for post-offices, on one segment the word "Distributed."

On similar segments of C are printed, respectively, "5 minutes late," "10 minutes late," &c., up to fifty-five minutes; and also on one segment the word "Late."

Cylinders A B C are attached, respectively, to cylinders F E D by the small solid shaft *b* and two hollow shafts, *c c* and *d d*, Fig. 4, so that A revolves with F, B revolves with E, and C revolves with D.

The cylinders F E D have a portion of their faces exposed and accessible to the employé in his office, but are not seen by the public. On segments of their surfaces are printed the same words and figures, respectively, as are printed on A B C, so that when F E D are set so that parallel segments will read, say, "No. 1, 1 hour late," as seen by the employé in his office, the segments of A B C, as seen by the public, will also read "No. 1, 1 hour late," and so on of any combination desired.

Each of the cylinders F E D are set at any point desired by means of the springs *a a a*, Fig. 3, having slots fitting on small spurs on the cylinders.

The working parts of this indicator are inclosed in a wooden case about seven inches deep, seven inches high, and fourteen inches long, intended to be set in the wall, between the railroad employé's or postmaster's office and the public room, a door in the back of the case giving access to the cylinders F E D. In the front cover of the case is an opening one and a half inch wide and seven and a half inches long, sufficient to expose to view three parallel segments of cylinders A B C, as shown in Fig. 1.

I claim as my invention—

In a railroad or post-office indicator, the combination of cylinders A B C, with the duplicate cylinders D E F, having similarly-printed surfaces, by means of the solid shaft and two hollow shafts, so that they revolve in pairs, any combination of words and figures on cylinders D E F being reproduced on cylinders A B C, in the manner and for the purpose as specifically set forth.

FRANKLIN N. CHASE.

Witnesses:

CHAS. M. BROWN,
L. B. SMITH.