(No Model.)

W. M. SIX.

TRAIN TIME INDICATOR.

No. 530,360. Patented Dec. 4, 1894.

Fig. 1.

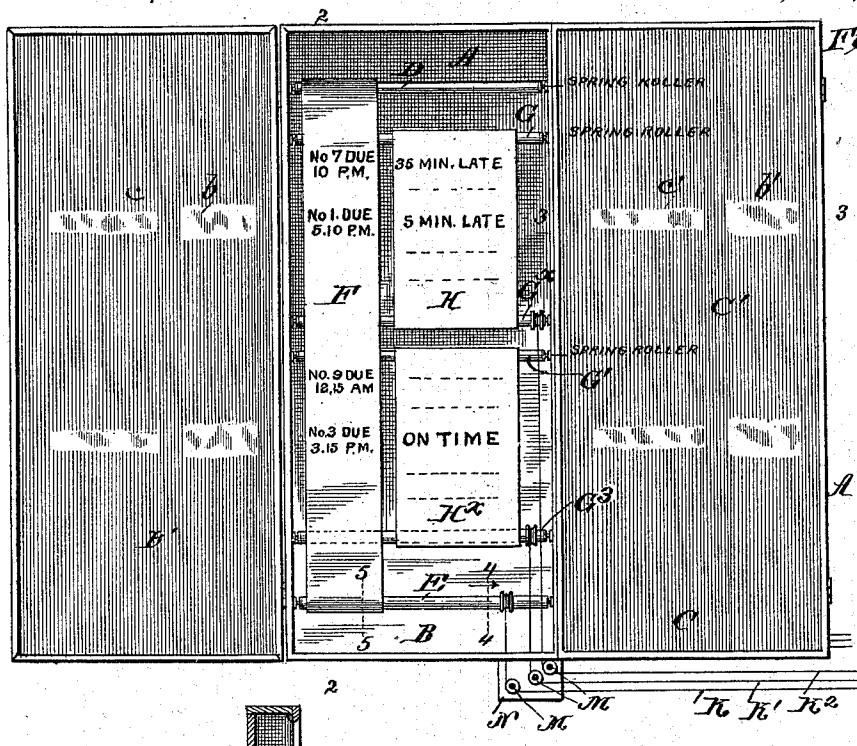


Fig. 2.

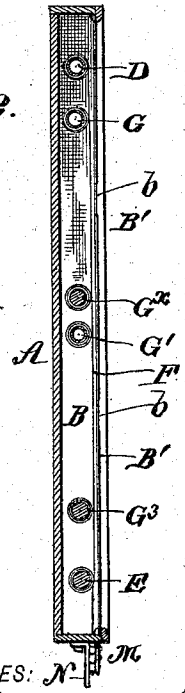
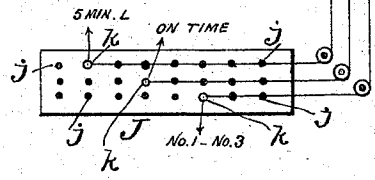


Fig. 3.



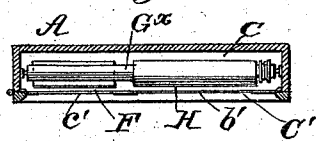


Fig. 4.

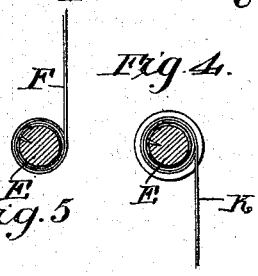


Fig. 5

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UNITED STATES PATENT OFFICE.

WILLIAM M. SIX, OF WESTFIELD, INDIANA.

TRAIN-TIME INDICATOR.

SPECIFICATION forming part of Letters Patent No. 530,360, dated December 4, 1894.

Application filed September 6, 1894. Serial No. 522,286. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. SIX, residing at Westfield, in the county of Hamilton and State of Indiana, have invented a new and Improved Train-Register, of which the following is a specification.

My invention relates to improvements in train registers for stations, and it has primarily for its object to provide a device of this character by which the trains can be bulletined by the operator without leaving his desk.

It has also for its object to provide a train registering mechanism of a simple and economical construction, which can be easily manipulated and which will effectively serve for its intended purposes.

With other minor objects in view which hereinafter will appear, the invention consists in such novel features and peculiar combination of parts as will hereinafter be first described in detail and then pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a front view of a train register constructed in accordance with my invention the glass door of one compartment being removed to better illustrate the interior arrangement of the several parts. Fig. 2 is a vertical section of the same taken on line 2—2 Fig. 1 the glass door being closed in place. Fig. 3 is a horizontal section of the same taken on the line 3—3 Fig. 1. Figs. 4 and 5 are detail cross-sections taken on lines 4—4 and 5—5 of Fig. 1.

In the accompanying drawings A indicates a box or casing which in the preferred construction is made with two compartments B and C, in each of which is arranged a set of registering devices, and which are covered each by a door B′ and C′ having an opaque glass panel provided with suitably arranged sight openings *b* and *c*, *b′* and *c′* as shown.

As the registering devices in the two compartments are alike, I shall describe but one set in detail.

Referring now more particularly to Fig. 1, it will be noticed in the upper end of the compartment B is journaled a roller D in the nature of an ordinary curtain spring roller, while at the lower end of such compartment is journaled a springless roller E.

F indicates an indicating band or canvas, upon which is indicated the "due" time of the several trains, which band is wound at its ends about the rollers D and E and secured thereto by tacks or otherwise and such canvas F is held to travel under the opening *b* of the door as most clearly shown in Fig. 2.

In the upper as also the lower portion of the compartment B is journaled a pair of rollers G, $G^{\times}$, and G′ G^{3}. The upper ones G and G′ are spring rollers, over which pass the ends of a pair of independently operated time belts H $H^{\times}$ the ends of which are wound about and secured to the rollers G $G^{\times}$, G′ and G^{3}, such belts having the "time" indications thereon as shown.

J indicates a key board which in the practical arrangement of the invention is disposed in the operator's room, and comprises a board having a series of apertures or lock pegs *j*, with which the ends of the operating cords are adapted to be connected, such ends having either rings or pins *k* as shown.

K indicates a main operating cord which is wound about the lower shaft E, and K′ K^{2} supplemental cords which are wound about the shafts G^{3} and $G^{\times}$ respectively, the several shafts having guide spools formed thereon to receive the ends of such cords as shown, and all of the cords, at a point where they pass out of the casing, pass over guide pulleys M M, mounted in a bearing plate N. See Fig. 1.

From the foregoing description taken in connection with the drawings it is thought the advantages and complete operation of my invention will be clearly understood.

It will be noticed that by pulling on the cord K the canvas F will be drawn down and the tension of the upper spring roller correspondingly increased, the canvas being manipulated by the cord, until the proper indicator sign or character comes under the opening *b* which can be determined by the operator connecting the end of the cord K with a predetermined one of the hooks or opening of the key board, it being manifest that the supplemental bands which have the "time" marks, are similarly operated and held to their adjusted positions they passing under the openings *c c*.

It will be noticed by providing a key board within the operator's room which is arranged

with fastening means in harmony with the several indicator marks on the several canvas or indicator belts, that, so soon as the operator receives the dispatch giving location of train, he can, practically without leaving his instrument, set the bulletin within the station.

It is obvious in practice the guides for the several cords may be varied as exigencies may require.

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

1. A train register comprising a casing having a sight opening, a canvas or belt held therein having the "due time" indicator marks thereon and movable under such opening, said belt being spring drawn in one direction, a key board, having lock members arranged in harmony with the indicator marks on the belt, and a pull cord connected with one end of the belt, and having means for connecting it to the key board all arranged substantially as shown and for the purposes described.

2. In a train register, the combination with a casing having sight openings *b* and *c*, a main belt or indicator movable under the opening *b*, spring drawn in one direction, and one or more independent indicator belts movable under the openings *c* spring drawn in one direction, of a key board having a series of fastening means arranged to be in harmony with the indicator marks on the several belts, and pull cords connected at one end to such belts and having at the other ends fastening means whereby they can be adjustably connected with the key board substantially as shown and for the purposes described.

3. The combination with the casing A having a door provided with sight openings *b* and *c*, spring rollers D, G, G′, and the guide rollers E $G^{\times}$ G^{3}, arranged substantially as shown, of the indicator belts F H and $H^{\times}$ secured to such rollers the cords K K^{2} K′ wound at one end about the rollers E $G^{\times}$ G^{3}, guides M for such cords, said cords having securing means at their ends, and a key board having a series of locking portions arranged in register with the indicator marks on the belts, arranged to receive the securing ends of the cords substantially as shown and for the purposes described.

WILLIAM M. SIX.

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