

No. 704,786.

Patented July 15, 1902.

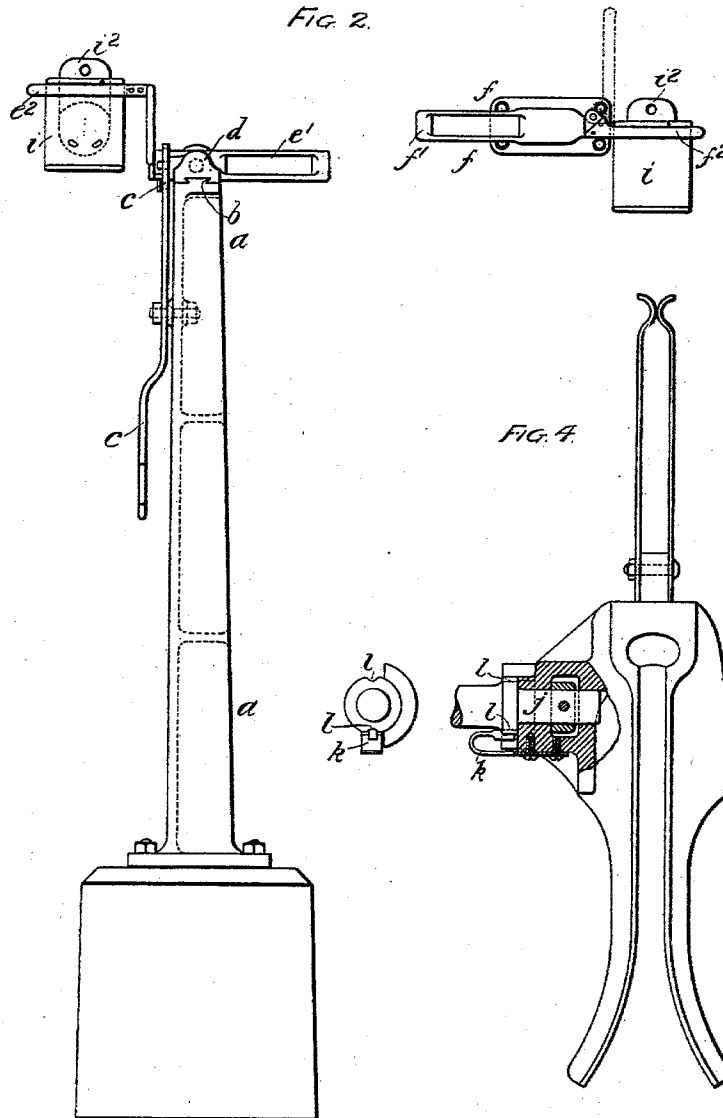
W. & G. W. DRUMMOND.

TABLET PICKING UP AND DEPOSITING APPARATUS FOR USE ON SINGLE LINES
OF RAILWAYS.

(Application filed May 9, 1901.)

(No Model.)

2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

WALTER DRUMMOND AND GEORGE WILLIAM DRUMMOND, OF GOVAN,
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TABLET PICKING UP AND DEPOSITING APPARATUS FOR USE ON SINGLE LINES OF RAILWAYS.

SPECIFICATION forming part of Letters Patent No. 704,786, dated July 15, 1902.

Application filed May 9, 1901. Serial No. 59,369. (No model.)

To all whom it may concern:

Be it known that we, WALTER DRUMMOND and GEORGE WILLIAM DRUMMOND, citizens of the United Kingdom of Great Britain and Ireland, residing at Helen street, Govan, county of Lanark, Scotland, have invented certain new and useful Improvements in Tablet Picking Up and Depositing Apparatus for Use on Single Lines of Railways, of which the following is a specification.

This invention has for its object to provide devices for automatically picking up and depositing the tablets or staffs employed in controlling the traffic on single lines of railways, the devices being fitted partly upon the cab of the locomotive and partly upon the permanent way and designed to admit of the tablets or staffs being picked up and deposited by the passing trains.

The invention is illustrated by the accompanying drawings.

Figure 1 is an elevation; Fig. 2, an elevation at right angles to Fig. 1, and Fig. 3 a plan of the apparatus. Fig. 4 is a view to a larger scale, partly in section, of the picking-up and depositing fork, showing the preferred method of carrying the same upon its standard or carrying-lever.

In carrying out the invention we provide upon the permanent way in proximity to the line of rails intended to be controlled by the devices above referred to and at any desired point in the length of said rails a standard or bracket *a*, having at its upper end a guide-way *b*, in which is fitted to slide under the action of a hand-lever *c*, in order to be brought into the requisite position for use, an arm *d*, carrying at its outer end a fork or tablet-holder *e*. This fork, which is made double, consists of a pair of receiving-jaws *e'*, open in the direction in which the train is approaching and adapted to receive the tablet *i*² or staff carried upon the cab of the locomotive, and of a pair of carrying-jaws *e''*, formed, preferably, by two springs secured at a higher or lower level than the first pair of jaws *e'* and adapted to hold the tablet *i*² or staff or a receptacle by which the tablet *i*² or staff is inclosed to be picked up by the passing locomotive. A similarly-shaped tablet or staff

holder *f* is fitted at the end of a lever *g*, pivoted upon the outside of the cab *h* of the locomotive, this lever *g* being adapted to be lowered by means of a hand-lever *g'* on approaching the holder on the permanent way and to be turned upward alongside the cab after receiving the tablet *i*² or staff. The tablet-holder *f*, carried on the cab of the locomotive, extends in the reverse direction, and the holder *f* passes between the levels of the first and second jaws of the holder *e* on the permanent way, so that the receiving-jaws *f'* of the holder *f*, carried by the cab, passes above the receiving-jaws *e'* of the holder on the permanent way and beneath the carrying-jaws *e''* of the same, or vice versa, thereby engaging with the tablet *i*² or staff depending from said carrying-jaws *e''* of the tablet-holder *e* on the permanent way the tablet previously between its own carrying-jaws *f''*. The staff or tablet *i*² is preferably inclosed in a bag *i* of leather or other material suitably provided with a shoulder from which it depends between the carrying-jaws of the holders on the cab or permanent way.

Fig. 4 shows the preferred means of carrying the tablet picking up and depositing fork, said fork being in this example secured upon a stud *j*, projecting from the carrying-bracket *d* or lever *g* in such wise that the fork may be turned or reversed to bring its receiving-jaws into the proper position irrespective of the direction of said train, the fork being locked in either of two horizontal positions by means of a spring *k*, secured upon said fork and engaging with a notch *l* in the stud *j*, upon which the fork is centered.

Having now described the invention, what we claim, and desire to secure by Letters Patent, is—

1. Tablet picking up and depositing apparatus for use on single lines of railway comprising in combination a tablet-holder consisting of a pair of receiving and a pair of carrying jaws, a lever on a stationary standard located at the side of the line for effecting reciprocal movement of said tablet-holder, a traveling arm located on the cab of the locomotive containing a pair of carrying and a pair of receiving jaws and a hand-lever mov-

able through a quadrant on the locomotive-cab for imparting rotation in a vertical plane to said arm substantially as set forth.

2. Tablet picking up and depositing apparatus for use on single lines of railway comprising in combination a tablet-holder consisting of a pair of receiving and a pair of carrying jaws, a lever on a stationary standard located at the side of the line for effecting reciprocal movement of said tablet-holder, a traveling arm located on the cab of the locomotive and containing a pair of carrying and a pair of receiving jaws pivotally mounted on an axis and stop devices holding said tablet-

holder at positions diametrically opposite each other in the direction of motion of the train, and a hand-lever movable through a quadrant on the locomotive-cab for imparting rotation to the said arm substantially as set forth. 15 20

In witness whereof we have hereunto set our hands in presence of two witnesses.

WALTER DRUMMOND.

GEORGE WILLIAM DRUMMOND.

Witnesses:

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