(No Model.)

C. W. BABBITT.

SAFETY ATTACHMENT FOR TELEGRAPH SIGNALS.

No. 514,745. Patented Feb. 13, 1894.

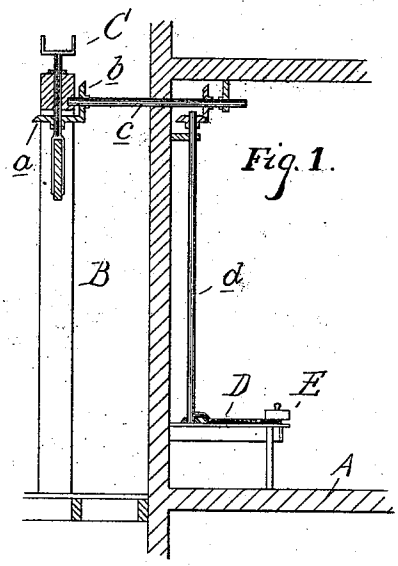


Fig. 1.

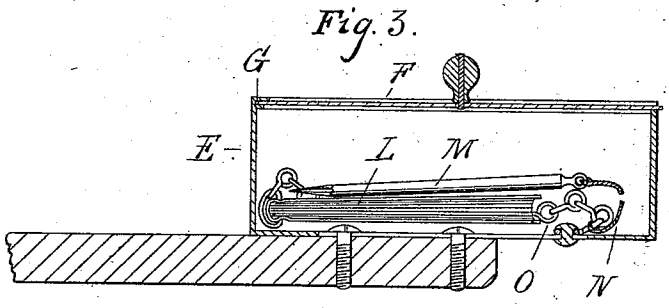


Fig. 3.

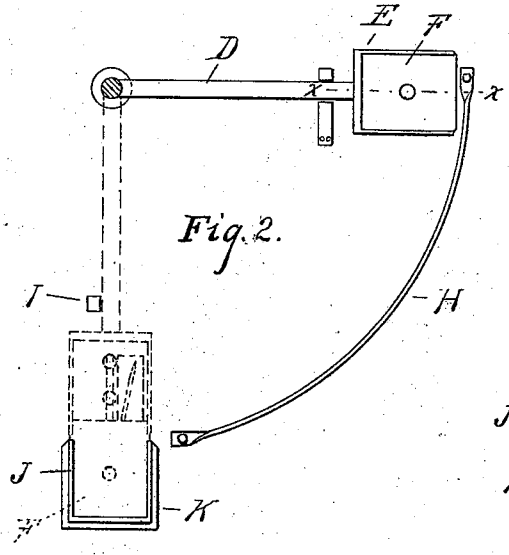


Fig. 2.

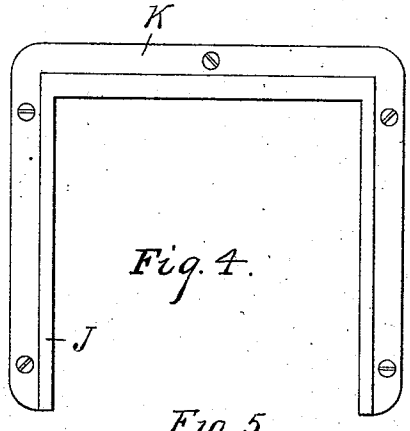
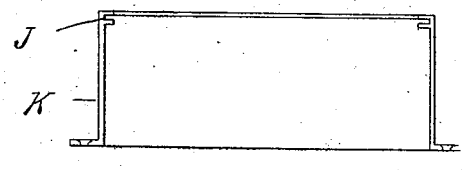


Fig. 4.

Fig. 5



WITNESSES:
Josiah B. Frost,
Charles M. Frost.

INVENTOR:
Charles W. Babbitt
BY Wright Brogue & Fox
ATTORNEYS.

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES W. BABBITT, OF JACKSON, MICHIGAN.

SAFETY ATTACHMENT FOR TELEGRAPH-SIGNALS.

SPECIFICATION forming part of Letters Patent No. 514,745, dated February 13, 1894.

Application filed February 13, 1893. Serial No. 462,121. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. BABBITT, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Safety Attachments for Telegraph-Signals, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the peculiar construction of an attachment whereby the usual telegraph signal at railway stations is controlled by a holder in which is contained the usual manifold or train order book in which the telegraph operator at the railway stations along the line writes his orders for the movement of trains which pass his station.

The invention further consists in so constructing and arranging this holder that when the book is in position to be used the signal is turned to "orders."

The invention further consists in the peculiar construction, arrangement and combination of the various parts all as more fully hereinafter described.

In the drawings, Figure 1 is a diagram elevation partly in section of my safety attachment. Fig. 2 is a plan view of the device or holder upon the operator's table and connections. Fig. 3 is a longitudinal section through the book holder on line *x x* in Fig. 2. Fig. 4 is an enlarged plan view of the cover lock for the holder. Fig. 5 is an end elevation thereof.

A represents the office of an ordinary telegraph operator, B the signal post outside thereof, and C the rotary signal journaled in the top. The signal is rotated by means of the beveled gear wheel *a* upon its shaft, the pinion *b* upon the horizontal shaft *c* and the vertical shaft *d* connected with its horizontal shaft by suitable gearing, the shaft *d* extending within the office through the operator's desk, being preferably stepped at its lower end in a bearing on the desk. At its lower end it is provided with an operating crank arm D extending over the operator's desk which at its outer end is provided with a case or holder E of any suitable shape, provided with a sliding cover F which engages in guide ways G near the top of the receptacle, and is opened by drawing it to the front.

H is a curved rail arranged at the end of the holder and so constructed that the cover F cannot be opened until the arm D has been rocked from the position shown in full lines in Fig. 2, to a position at right angles thereto, as shown in dotted lines in the same figure. At all points of its movement from its initial or locked position to its opposite or opened position it will be impossible to open the receptacle or holder because of the construction and arrangement of the rail H. When the holder has been moved to the position shown in Fig. 2 against the stop I, the cover of the holder may be slid off, and in sliding it off it will enter the guide way J in the frame K secured in line therewith, this holder being of a length less than the length of the cover, so that the cover cannot be removed from the holder, but engaging both in the frame K and the holder will lock the latter in its open position. In this position, the operator may remove the order book L to the top of the holder and the stylus or pencil M, which is secured by a suitable cord N. The book is secured to the interior of the holder by means of a chain O, so that the cover F cannot be closed until the book and its chain have been reinserted into the holder. In turning the holder from its initial position to its open position, the shaft *d* will be rotated and through the connection described will turn the signal C to indicate "orders" thus, as long as the holder is in its open position the signal necessarily will indicate "orders."

As all orders for trains are necessarily written in the order book, it is evident that an operator in receiving such orders must give the proper signal to the train, the order book holder practically controlling the signal and thus many accidents which have happened through the carelessness of operators in failing to give the proper signal after receiving orders will be obviated.

What I claim as my invention is—

1. In a railway telegraph signal, the combination of a book holder, and a lock therefor unlocked only in the "order" position of the signal, substantially as described.

2. In combination with a railway telegraph signal, a book holder and a locking device therefor in the initial "orders" position of the signal, substantially as described.

3. In a railway telegraph signal, the com-

bination of a signal, a book holder, actuating connections between the holder and signal, a lock to render the book inaccessible until the signal is at "orders," and a lock to hold it in "orders" position until the book is returned, substantially as described.

4. In a railway telegraph signal, the combination of a signal, a book holder, actuating connections between the holder and signal, a cover for the holder, a lock for said cover applied until the signal is at "orders," and a lock applied to the cover in its open position locking the signal in its "orders" position until the cover is closed, substantially as described.

5. In a railway telegraph signal, the combination of a signal, a book holder, a cover therefor, a stop preventing the opening of the cover until the signal has been moved to "orders," a stationary frame into which the cover slides when opened, locking said signal in "orders" position until the cover is closed, substantially as described.

6. In a railway telegraph signal, the combination with a signal, a book holder and actuating connections between the signal and holder, of a book in the holder, a chain secured at one end inside the holder and at the other end to the book, a lock for the cover until the signal is moved to "orders," and a lock to hold it in such position until the book is inserted and the cover closed, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES W. BABBITT.

Witnesses:
M. B. O'DOGHERTY,
N. L. LINDOP.