

(No Model.)

B. BUYS.
RAILWAY SIGNAL.

No. 294,116.

Patented Feb. 26, 1884.

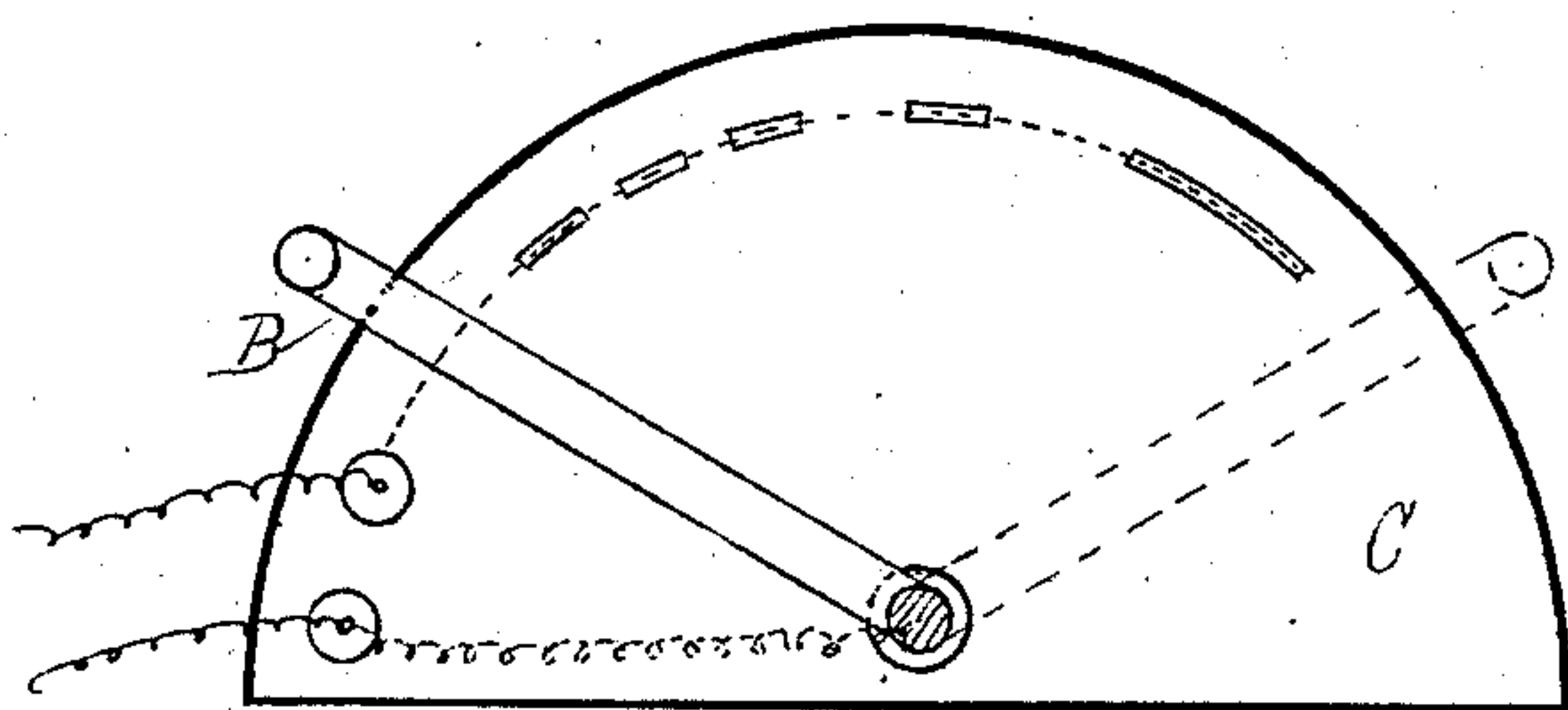


Fig. 2

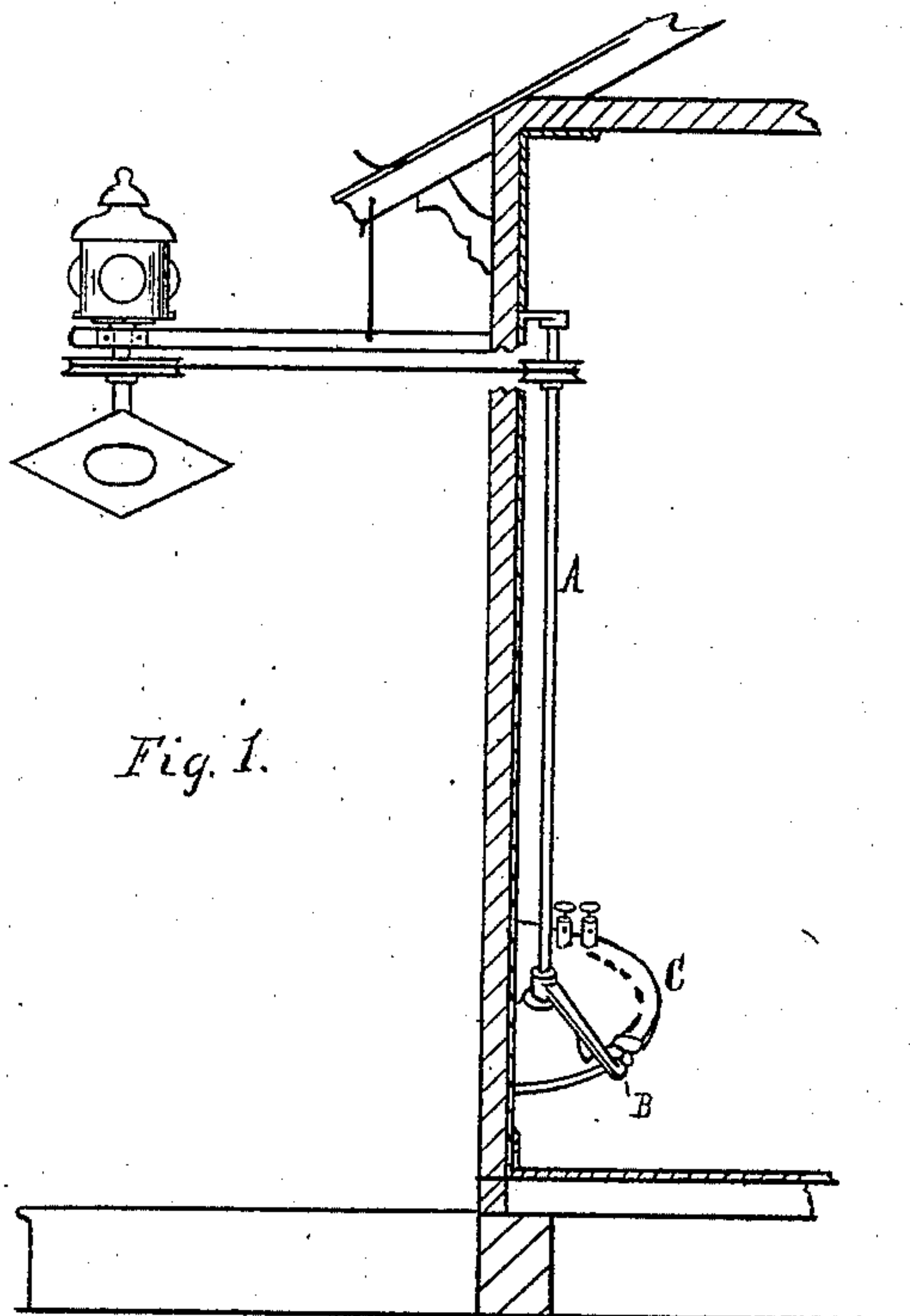


Fig. 1.

Attest:
W. Sprague
E. Scully

Inventor.
Bert Buys.
By his Atty. *Wm. S. Sprague*

UNITED STATES PATENT OFFICE.

BERT BUYS, OF REESE, MICHIGAN, ASSIGNOR OF ONE-THIRD TO FRANK WILCOX, OF SAME PLACE.

RAILWAY-SIGNAL.

SPECIFICATION forming part of Letters Patent No. 294,116, dated February 26, 1884.

Application filed November 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, BERT BUYS, of Reese, in the county of Tuscola and State of Michigan, have invented new and useful Improvements in Railway-Signals; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to an improvement in that class of railway-signals in which an arm moves at the same time as the signal, and carries a contact-point over a series of fixed contacts to indicate the position of the signal; and the object of the invention is to provide
15 such signal with an arm that will both automatically dispatch a signal or message to the train-dispatcher whenever the signal is thus displayed, and at the same time serve as a
20 means to display the proper visual signal to an approaching train, thus showing that the telegraph-operator has displayed the necessary signal to arrest the train for the receipt of orders.

25 In the drawings which accompany this specification and form a part thereof, and in which Figure 1 is an elevation of a signal with my improvement in perspective, and Fig. 2 is an enlarged plan view of my improvement detached, I show a railway-signal of known construction, which is provided with the vertical
30 rotating shaft A and the usual signals. B is a lever, by which the device is operated from the room of the telegraph-operator. C is my attachment, by which a return-signal is automatically sent to the train-dispatcher whenever the lever is operated. It simply consists
35 of a number of fixed contact-points and a contact-point secured to the lever, both being connected with the telegraph-line in such a way that
40 when the lever is moved across the fixed contacts (as is necessary in operation) the circuit will be alternately opened and closed, and thus automatically transmit a signal or message to
45 the train-dispatcher. To prevent the opera-

tor from sending any like signal through the medium of the key, the signal given by the automatic device may be of such a nature that it could not well be imitated with the key, or it might be inclosed and protected, so that the operator may not be aware of its nature. 50

While I have described my attachment in combination with a certain railway-signal, it is clear that it may be likewise used with equal
55 advantage with other signal devices which are operated by hand for different purposes.

In practice the railroad-operator, upon the receipt of a message from the train-dispatcher for a certain train, sets his signal, and the train-dispatcher will receive an automatic signal, which, from its peculiar nature, gives him indisputable notice that the operator has acted upon his orders. 60

I have shown contact-points that will transmit the word "set" to the dispatcher when the signal is set to indicate "danger." Should the signal be reversed, the movement of the lever over the contact-points would transmit the same letters reversed, thus indicating that the signal had been reversed, and that it now indicates "safety." 70

I am aware of English Patent No. 657 of 1879, and make no claim to the construction shown therein.

What I claim as my invention is— 75

The combination of the vertical shaft A for operating a visual signal, the horizontal plate C, forming a step for the shaft, and carrying a series of fixed electrical contacts connected with a telegraph-line, and an arm carrying a contact-point and attached to said shaft, and constructed to both operate said shaft and signal and move said contact-point over the fixed contacts as the visual signal is moved, substantially as described. 80

BERT BUYS.

Witnesses:

E. SCULLY,
H. S. SPRAGUE.