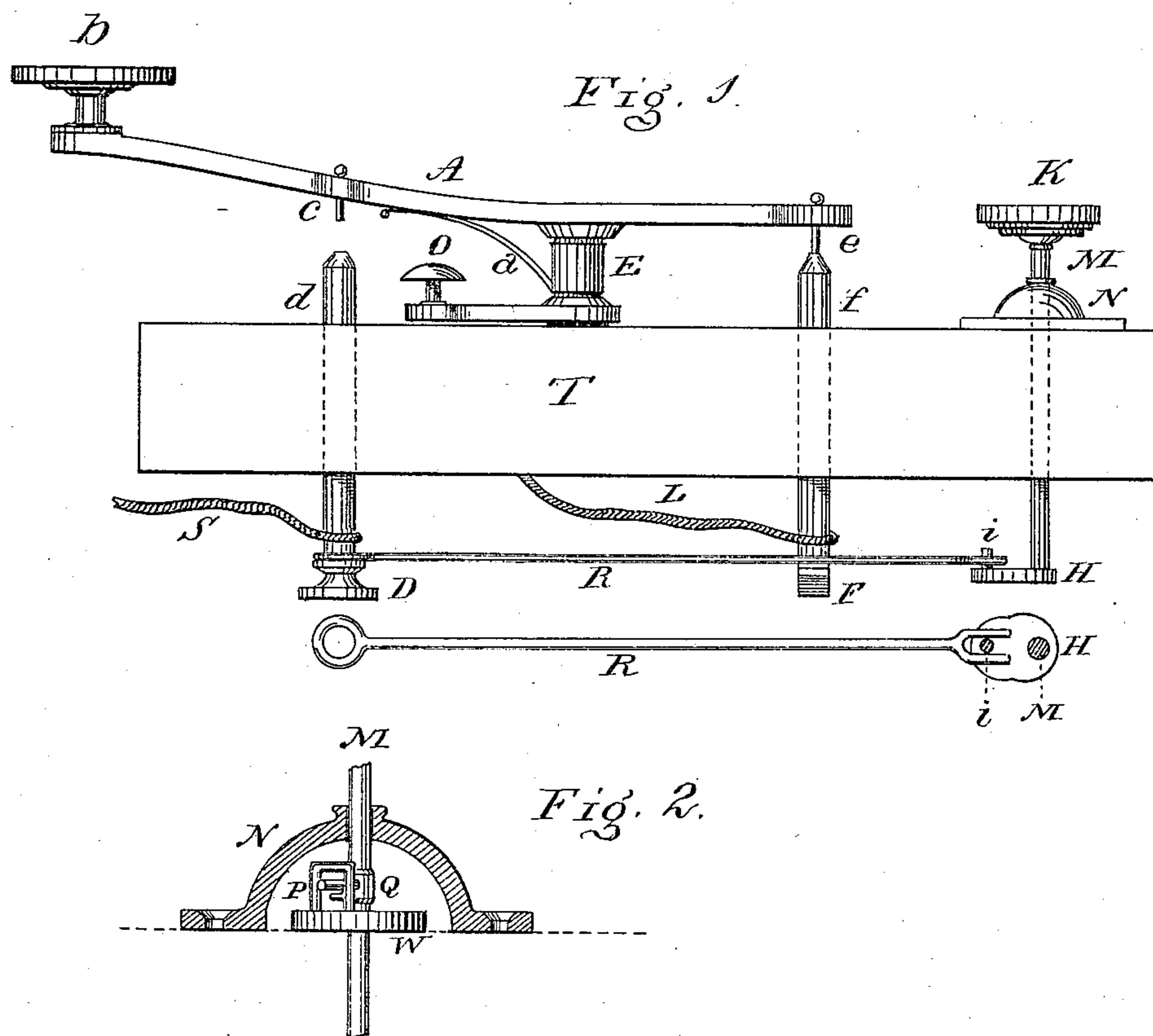


J. M. WITMER.
Telegraph Keys.

No. 230,911.

Patented Aug. 10, 1880.



WITNESSES:

Amos Gilbert

Edwin M. Gilbert

INVENTOR

John M. Witmer

ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN M. WITMER, OF QUARRYVILLE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO S. MILTON HESS, OF SAME PLACE.

TELEGRAPH-KEY.

SPECIFICATION forming part of Letters Patent No. 230,911, dated August 10, 1880.

Application filed July 11, 1879.

To all whom it may concern:

Be it known that I, JOHN M. WITMER, of Quarryville, in the county of Lancaster and State of Pennsylvania, have invented certain
5 Improvements in Telegraph Apparatus and for Closing and Locking the Same, of which the following is a specification.

The object of this improved additional key is to secure a more reliable safeguard against displacement of the ordinary horizontal turn key
10 in use, so liable to become loose or displaced, and resulting in great annoyance to operators on that line by an accidental open or disconnected line-wire.

15 The accompanying drawings, with the letters of reference marked thereon, and a brief explanation will enable those skilled in the art to make and use the same, in which—

Figure 1 is a vertical section of the table and apparatus of an ordinary telegraph combination with the safety-key. Fig. 2 shows
20 this safety-key detached and enlarged in the several parts to illustrate them separately.

I do not show the wires from the battery to the switch-board and relay and the plug to
25 which the battery and line-wire are connected, the one carried to the relay and the other to the operating-bolt F of the apparatus, being the connection of the line-wire L. The other
30 wire, S, from the relay to the operating-bolt D, shows the connection with the operating-lever A, button b, lever fulcrum or support E, spring a, as ordinarily arranged with a horizontal turn key and knob, O, as shown, all of
35 which are no part of my invention apart from the extra or vertical lift and turn key K, having a vertical shaft, M, provided with a collar, Q, and lock-pin P, entering an open clevis, with an inner projecting point affixed to a

basal washer, W. Fig. 2 shows these latter 40 parts within a covering, N.

The vertical shaft M has a foot-plate, H, and a pin, i. A nut-fastening may be applied, instead of riveting the end of the rod M to the plate H.

I show a rod or wire, R, connected with the operating-bolt D, and also resting on the base or foot on the operating-bolt F, thus connecting the two, as also with the extra or safety key, by its forked end embracing the pin i
45 and resting on the foot-plate H. Thus this key, when operated simultaneously with the ordinary key, (shown by its button O,) will open or close the circuit as if only the one key were used, only that this additional lock-key, by
50 having to be raised and turned off or on to form connection to close, affords additional security against being meddled with or accidentally displaced, and thereby prevents the
55 annoyance that often occurs on a line in stopping or cutting off communication with the line-wire. 60

It is this additional key, with the locking device, that I claim as my improvement as a useful and additional safeguard. Therefore 65

What I claim, and desire to secure as my invention, is—

The combination of the vertical lift and turn key MK, collar and pin Q P, washer and staple W P within the case N, as a bearing, foot-plate
70 H, and forked connecting-rod R, the whole arranged and operating substantially as and for the purpose specified.

JOHN M. WITMER.

Witnesses:

AMOS GILBERT,
EDWIN M. GILBERT.