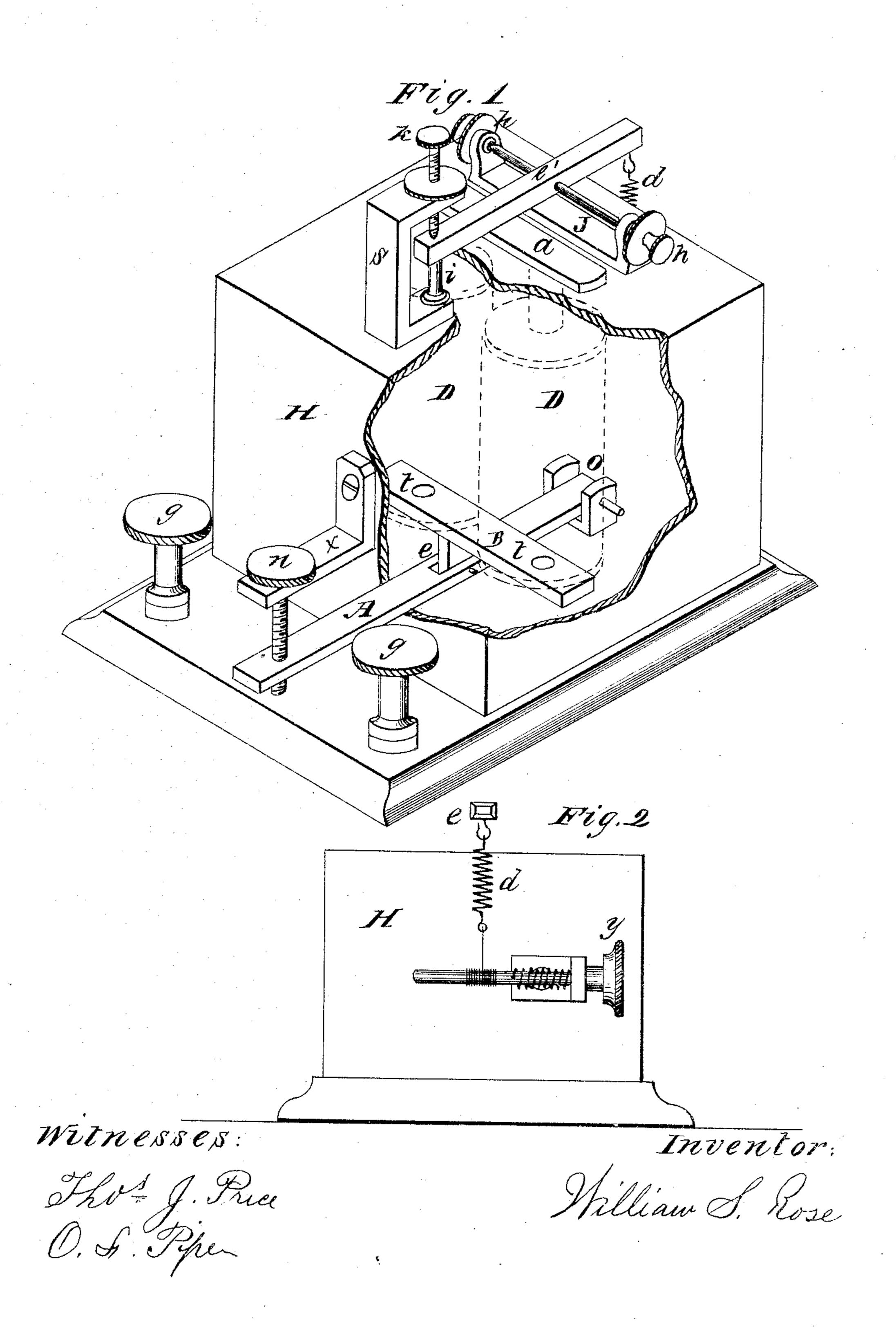
W. S. ROSE.

Telegraph Relays and Sounders.

No.157,764.

Patented Dec. 15, 1874.



UNITED STATES PATENT OFFICE.

WILLIAM S. ROSE, OF COLCHESTER, ILLINOIS.

IMPROVEMENT IN TELEGRAPH RELAYS AND SOUNDERS.

Specification forming part of Letters Patent No. 157,764, dated December 15, 1874; application filed April 13, 1874.

To all whom it may concern:

Be it known that I, WM. S. Rose, of Colchester, in the county of McDonough and State of Illinois, have invented a new and useful Improvement in Telegraph-Instruments; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention relates to that class of telegraph-instruments known as sounders; and it consists in the combination of a horizontal bar attached to the base of the box by a hinge, and provided with a cross-bar hinged thereto and supporting the magnets, for readily supporting and adjusting them.

In the drawings, Figure 1 represents a perspective view, with a part of the box cut away for the purpose of showing the interior. Fig. 2 is an elevation showing the adjusting-spring.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction. A is a horizontal bar attached to the base of the box H by a hinge, o. B is a cross-bar placed at right angles with the bar A, to which it is attached by means of a hinge, e. The magnets DD, shown in dotted lines, are firmly attached to the crossbar B at t t. Through the front end of A passes a set-screw, n, guided loosely in a bracket, x, projecting from the case. The lower end of this set-screw rests upon the base of instrument, and, accordingly as it is turned, it raises or lowers the lever A, and consequently the magnets D D, thereby adjusting them. e' is a lever, to which the armature a is attached just above the cores of the magnets DD. At I

one end of the lever e' is a spiral spring, d, attached to the thumb-screw y, shown in Fig. 2. At the other end of the lever e', and attached to the box H, is a standard, s, which has projections at right angles, the lower projection forming a base for the sounding-post i and the upper a bearing for the set-screw k. J is the frame, to which the lever e' is pivoted by set-screws h h.

The operation is as follows: The line-wires are attached to the instrument at the binding-posts g g. The horizontal bar A receives the proper adjustment by means of the thumb-screw n, which passes through an arm, as shown, and through the bar A, in which a proper screw is cut. The head of the thumb-screw n rests on the arm, as shown, and when turned to the right or left the horizontal bar A is raised or lowered, as may be desired, until the cores of the magnets are brought to the desired distance from the armature a. The set-screw K is raised to give the lever e' the necessary amount of vibration required to give a proper sound.

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

The combination of the horizontal bar A, provided with cross-bar B and adjusting-screw n, with the magnets D D and their armatures, substantially as shown and described, and for the purpose set forth.

WILLIAM S. ROSE.

Witnesses:

THOS. J. PRICE, D. G. PRICE.