

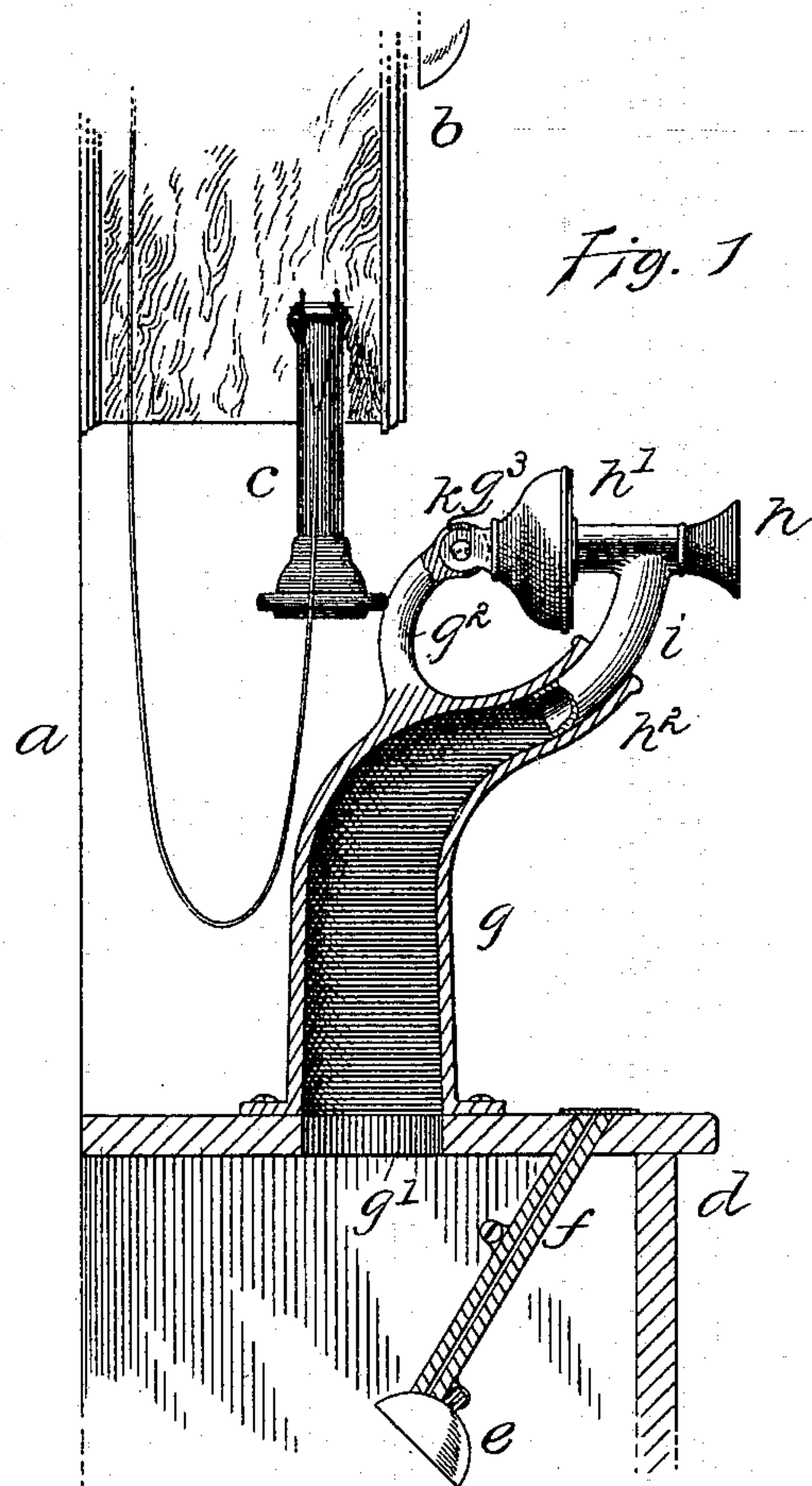
No. 612,330.

Patented Oct. 11, 1898.

W. GRAY.
TELEPHONE PAY STATION.

(Application filed Nov. 21, 1895.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM GRAY, OF HARTFORD, CONNECTICUT, ASSIGNOR TO THE GRAY
AUTOMATIC TELEPHONE PAY STATION COMPANY, OF SAME PLACE.

TELEPHONE PAY-STATION.

SPECIFICATION forming part of Letters Patent No. 612,330, dated October 11, 1898.

Application filed November 21, 1895. Serial No. 569,742. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GRAY, a citizen of the United States, and a resident of Hartford, in the county of Hartford and State
5 of Connecticut, have invented certain new and useful Improvements in Telephones, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

10 My invention relates to the class of devices used in connection with a set of telephone instruments as usually assembled as a wall set or desk set for the use of subscribers on a line and in which the signal sounded at the
15 local station by the payment of a coin as toll is conveyed to the transmitter by means of a tubular connection between the signal-box and the transmitter.

20 The object of my invention is to provide an apparatus of this class that shall be simple, compact, and effective; and to this end my invention consists in the details of the several parts making up the apparatus as a whole and in the combination of such parts, as more
25 particularly hereinafter described, and pointed out in the claims.

Referring to the drawings, Figure 1 is a detail view, in central section, of the deflector-tube and signal-box. Fig. 2 is a detail top
30 view of the joint.

In the accompanying drawings the letter *a* denotes the backboard, *b* the magneto-bell box, *c* the telephone, and *d* the signal-box, these parts being of the ordinary and well-
35 known construction.

Within the signal-box is a signal device *e*, located in the path of movement of a falling coin which is inserted in the upper end of the chute or channel *f* and by gravity
40 falls against the signal device, causing it to sound. A hollow post *g* is secured to the signal-box over an opening *g'*, so that the sound of the signal will extend readily within this post. A transmitter *h*, mounted on an arm
45 *h'*, is pivoted to the projection or horn *g²* on the post *g*. A curved tube *i* extends from the tubular extension *h²* on the front part of the transmitter-case through an opening in the wall of the hollow post *g*, the tube being

formed on a curve the center of which is the
50 center of the pivot by which the transmitter-arm is connected to the post, thus providing means for the up-and-down adjustment of the transmitter. A hollow passage or deflector
55 is thus provided between the signal-box and the transmitter, which will permit the uninterrupted passage of sound readily from within the signal-box to the transmitter.

In order to prevent the end of the curved tube from being withdrawn from the opening
60 in the post by the rocking movement of the transmitter on its pivotal support, a stop *k* is required, and this is formed by the shoulder *g³* on the projection *g²* and located back of the pivot and in the path of movement of a
65 projection on the transmitter arm or case.

The advantage of this construction of the signal-box, the hollow post, transmitter, and deflector consists mainly in the compact arrangement of the parts and the easy adaptation by slight changes in sizes to the various
70 uses of the device, as on a wall set or a desk set, where changes in size or proportion of a supporting-post are sometimes required.

I claim as my invention—

1. In combination the signal-box *d*, the signal device *e*, the hollow conducting-post *g*, the transmitter-case *h* pivotally attached to the post, and the curved deflector-tube *i*, rigidly attached to the transmitter-case and extended within the post through an opening
80 in the wall thereof, all substantially as described.

2. In combination the signal-box *d*, the signal device *e* located within the box, the hollow post *g* located over an opening in the wall of a box, the transmitter-case pivotally attached to the post, the stop limiting the swinging movement of the transmitter-case on its pivot, the curved deflector-tube rigidly
85 attached to the transmitter-case, and extending within the post through an opening in the wall thereof, all substantially as described.

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