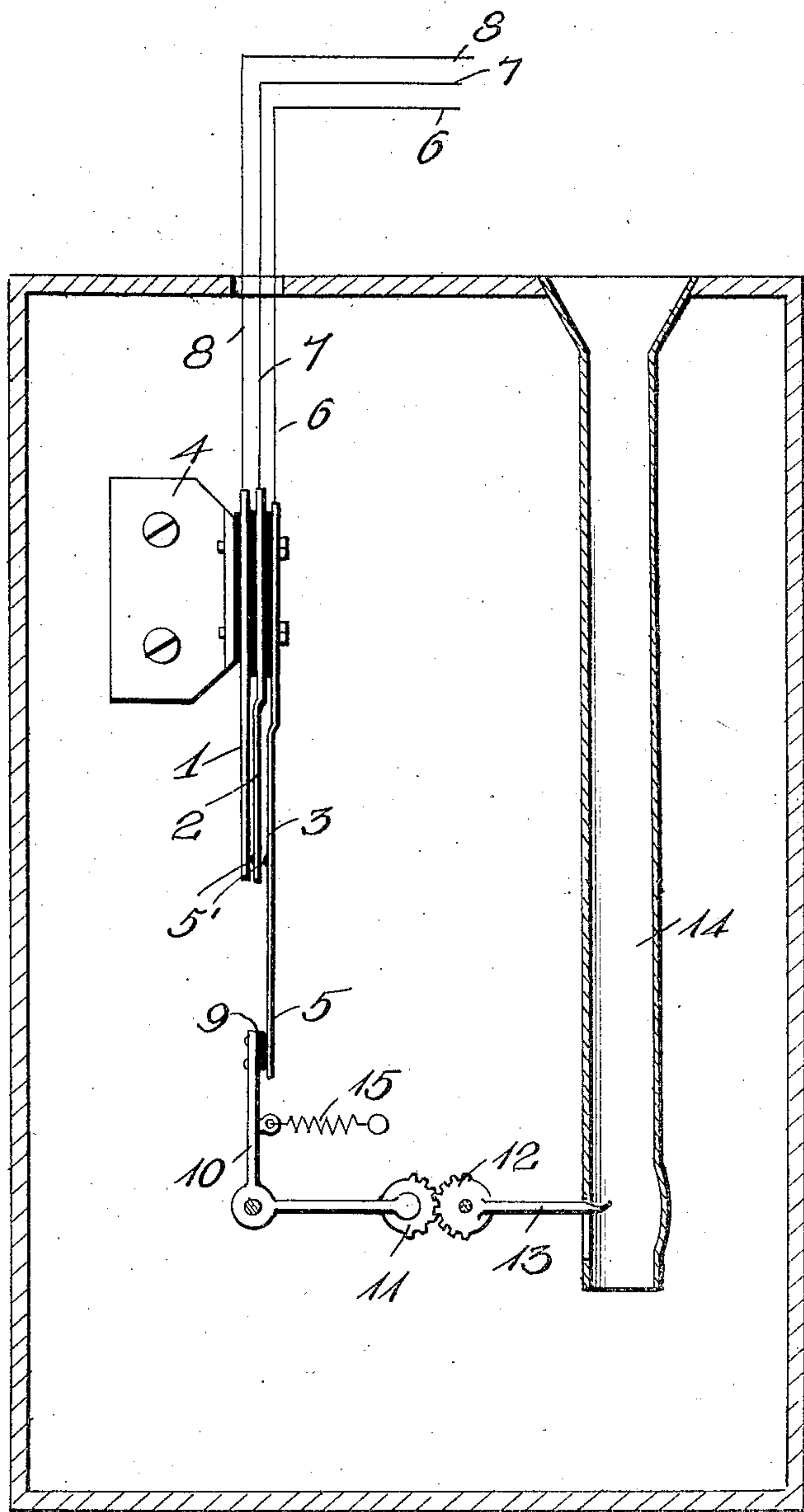


H. W. HAMLIN.
 AUTOMATIC PAY STATION.
 APPLICATION FILED SEPT. 17, 1908.

935,150.

Patented Sept. 28, 1909.



Witnesses

C. H. Griesbauer

C. H. Griesbauer

Inventor

Harry W. Hamlin

By

A. B. Wilson & Co

Attorneys

UNITED STATES PATENT OFFICE.

HARRY W. HAMLIN, OF MILO, MAINE.

AUTOMATIC PAY-STATION.

935,150.

Specification of Letters Patent. Patented Sept. 28, 1909.

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To all whom it may concern:

Be it known that I, HARRY W. HAMLIN, a citizen of the United States, residing at Milo, in the county of Piscataquis and State of Maine, have invented certain new and useful Improvements in Automatic Pay-Stations; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in telephones and more particularly to pay stations therefor.

It has for its object to facilitate or aid a person desiring to transmit a message, as well as the telephone company in effecting the proper deposit and application of the coin for payment of such message over its line, and to carry out these ends in a simple, inexpensive and effective manner.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

The accompanying drawing illustrating the preferred embodiment of my invention represents a diagrammatical sectional view thereof.

In practicing my invention, I suitably arrange in the usual box or housing at a pay station along a telephone line a plurality or number of spring contact fingers 1, 2 and 3 suitably insulated and secured in position on a bracket 4, two of said fingers being substantially of the same length and the third extending some distance beyond the latter with its extended portion forming a spring 5 and the free ends of each of the other fingers having platinum contact points 5'. These fingers are suitably connected to wires 6, 7 and 8, respectively, 6 being the line wire, 7 leading to a battery and 8 being connected with the primary member of an induction coil.

A bell crank lever 10, is suitably fulcrumed in position with relation to the spring end 5 of finger 3, with one arm arranged contiguous to said end 5 and with which it is adapted to normally engage. A piece of insulation 9 is secured to the inner face of the free end of one of these members 5 or 10 to insulate them when in contact. This lever 10 has a gear wheel or

pinion 11 at the end of one arm which gears with a corresponding pinion 12 upon a lever 13 having its free end extending into and operable within a chute 14 for the reception of the coin, said end of the lever 13 being adapted to be readily engaged by a coin as it passes down through said chute.

It will be noted that a coin inserted through the slot in the box above described passes down through the chute 14 and engages the end of the lever 13 protruding into said chute and thereby actuates said lever. When the lever 13 is engaged and actuated by the coin, the intermeshing pinions 11 and 12 will actuate the bell crank lever 10 to cause the free end thereof to move away from the insulated end 9 of the spring extension 5 of finger 3 which will permit said finger 3, by reason of its resiliency to engage the opposite finger 2 and the latter to contact with the finger 1, thus forming a circuit by the aid of the wires 6, 7 and 8, and sending in a signal through a suitably located bell, which signal will be transmitted to the central office, and thus notify the latter of the proper depositing of the coin.

After the operation of parts, the lever 10, together with the lever 13 and their intergeared pinions, will resume initial position under the tension or pressure of a spring 15, suitably connected to the lever 10 and to a fixed point, respectively, thus restoring the parts into position for a repetition of the operation above described. It is also observed that by means of the aforesaid combination and arrangement of parts certain disadvantages as heretofore experienced in connection with telephone pay stations are obviated in that as a party desiring to use the telephone is assured that the coin placed in the chute for its reception in making payment for his message, will send in the required signal without any possible failure of the same being noted at central office, and that the said contrivance is capable of use wholly independent of the action of the receiver, and that the receiver is capable of use, and of sending in the required signal also independent of the signal sent in by the action of the signal indicating the deposit of a coin.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

Having thus described and ascertained the nature of my invention, what I claim as new and desire to secure by Letters-Patent, is:—

10 1. A device of the character described comprising a plurality of normally spaced spring contact fingers, one of said fingers having a spring extension, a lever adapted for normal engagement with said extension and insulated therefrom, an actuating lever 15 having its free end arranged for engagement by a coin, means for effecting the intergearing of said levers to provide for their actuation on the insertion of a coin to move 20 said first-mentioned lever out of engagement with said finger extension.

2. A device of the character described comprising normally spaced spring contact fingers, wire connections for effecting electrical connection between said fingers, one 25 of said fingers having a spring extension, a bell crank lever having one arm arranged for engagement with said spring extension, a lever adapted for engagement by a coin, 30 and intergearing pinions carried by said le-

vers to provide for the actuating of one by the other.

3. A device of the character described embracing a plurality of normally spaced spring contact fingers, one of said fingers 35 having a spring extension, a bell crank lever having one arm adapted for engagement with said spring extension and the other arm provided with a pinion, a lever having one end adapted for engagement by a coin and 40 its other end provided with a pinion meshing with the pinion on said bell crank lever.

4. A device of the character described comprising a series of normally spaced spring contact fingers, one of said fingers 45 having a spring extension, wire connection between said fingers, and a bell crank lever having one arm adapted for engagement with said spring extension, a lever adapted for engagement by a coin, intergearing pin- 50 ions effecting connection between said levers and a spring adapted to effect the return movement of the bell crank lever.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 55

HARRY W. HAMLIN.

Witnesses:

W. O. COOKSON,
LURA H. BALL.