

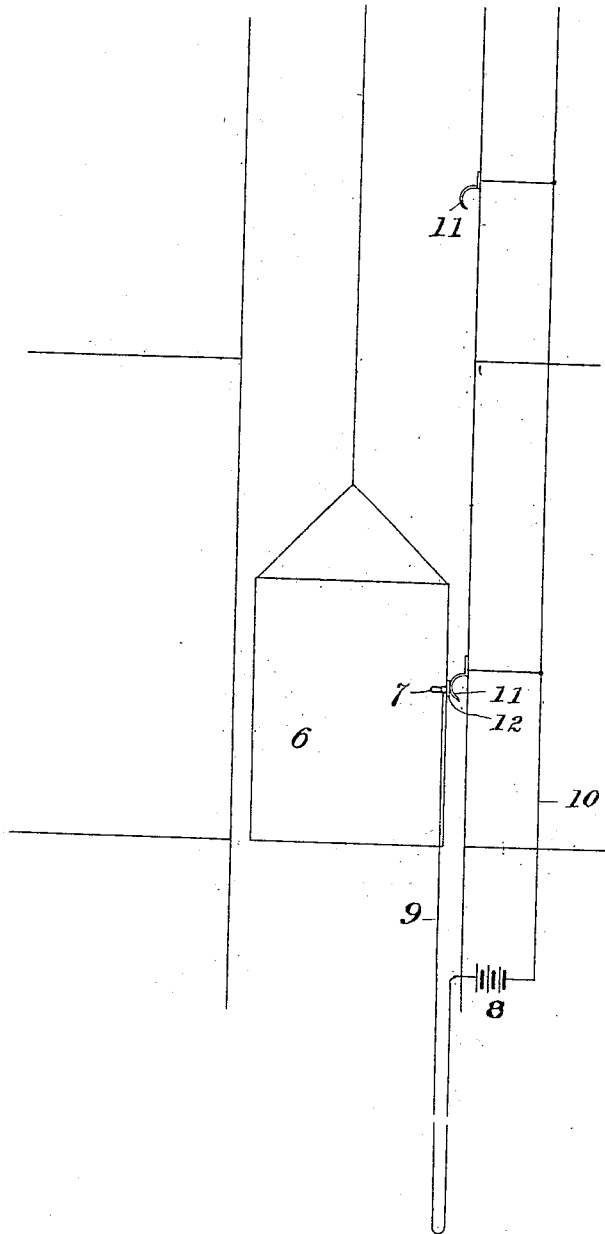
No. 707,305.

Patented Aug. 19, 1902.

L. K. CURLETT.
ELECTRIC SIGNAL FOR ELEVATORS.

(Application filed Nov. 7, 1901.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

LEWIS K. CURLETT, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO
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ELECTRIC SIGNAL FOR ELEVATORS.

SPECIFICATION forming part of Letters Patent No. 707,305, dated August 19, 1902.

Application filed November 7, 1901. Serial No. 81,404. (No model.)

To all whom it may concern:

Be it known that I, LEWIS K. CURLETT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electric Signals for Elevators; and I do hereby 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, reference being had to the accompanying drawing, and to the figures of reference marked thereon, which forms a part of this specification.

This invention relates to electric signals for elevators. Its object is to indicate to an elevator conductor when the floor of his car is level with the floor of the building. The reason for the invention is found in the fact that such a car is often stopped when its floor is not just level with the floor of the building, with the result that persons using the car are liable to trip in entering or leaving the same, even though the variation be slight.

Heretofore it has been necessary for the conductor to watch the meeting floors and gage by his eye the proper level at which to stop the car, and as from his position his eye was ordinarily directly above the meeting place and his sight thereof obscured by the car-door or by persons in the car it has been difficult to quickly bring the floor of the car to a true level with a floor of the building, causing delay to shift the elevator one or more times and creating liability to injury by tripping or falling of persons entering or leaving the car.

The invention comprises a signal, preferably directly before the face of the conductor, designed to be actuated to indicate to him when the floor of the car is level with a floor of the building.

An embodiment of the invention is illustrated in the accompanying drawing, which is a diagrammatic view of an elevator provided with the improvement.

The elevator-car is indicated at 6 and carries an electric signal, preferably a small glow-lamp, (indicated at 7,) conveniently in position to be readily seen by the elevator-conductor. This signal is in a circuit formed by the battery 8, wire 9, carried by the elevator and movable therewith in the usual manner, and a wire 10, having connected thereto a contact-piece 11 at each story of the building. Another contact-piece (indicated at 12) is carried by the elevator-car and is connected to the lamp and the wire 9 and is so positioned as to strike the contact-piece 11 when the floors of the car and the building become flush, whereby the circuit is closed and the lamp caused to glow. Hence by watching the lamp the conductor may readily see whether the car-floor is or is not flush with the building-floor. The degree of accuracy of the indication with respect to the level of the two floors may be adjusted by variation in the length of one or both of the contact-pieces.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A signal for elevators, comprising an electrically-operated signal carried by the car, and car-actuated contact devices to operate the signal when the floor of the car is flush with a floor of the building.

2. A signal for elevators comprising an electric circuit, an electric signal carried by the car in said circuit, a contact-piece at a floor of the building, and a contact-piece carried by the car in such position as to close the circuit and actuate the signal when the floor of the car is flush with the floor of the building.

In testimony whereof I affix my signature in presence of two witnesses.

LEWIS K. CURLETT.

Witnesses:

WM. J. ROBINSON,
HARRY G. BATCHELOR.