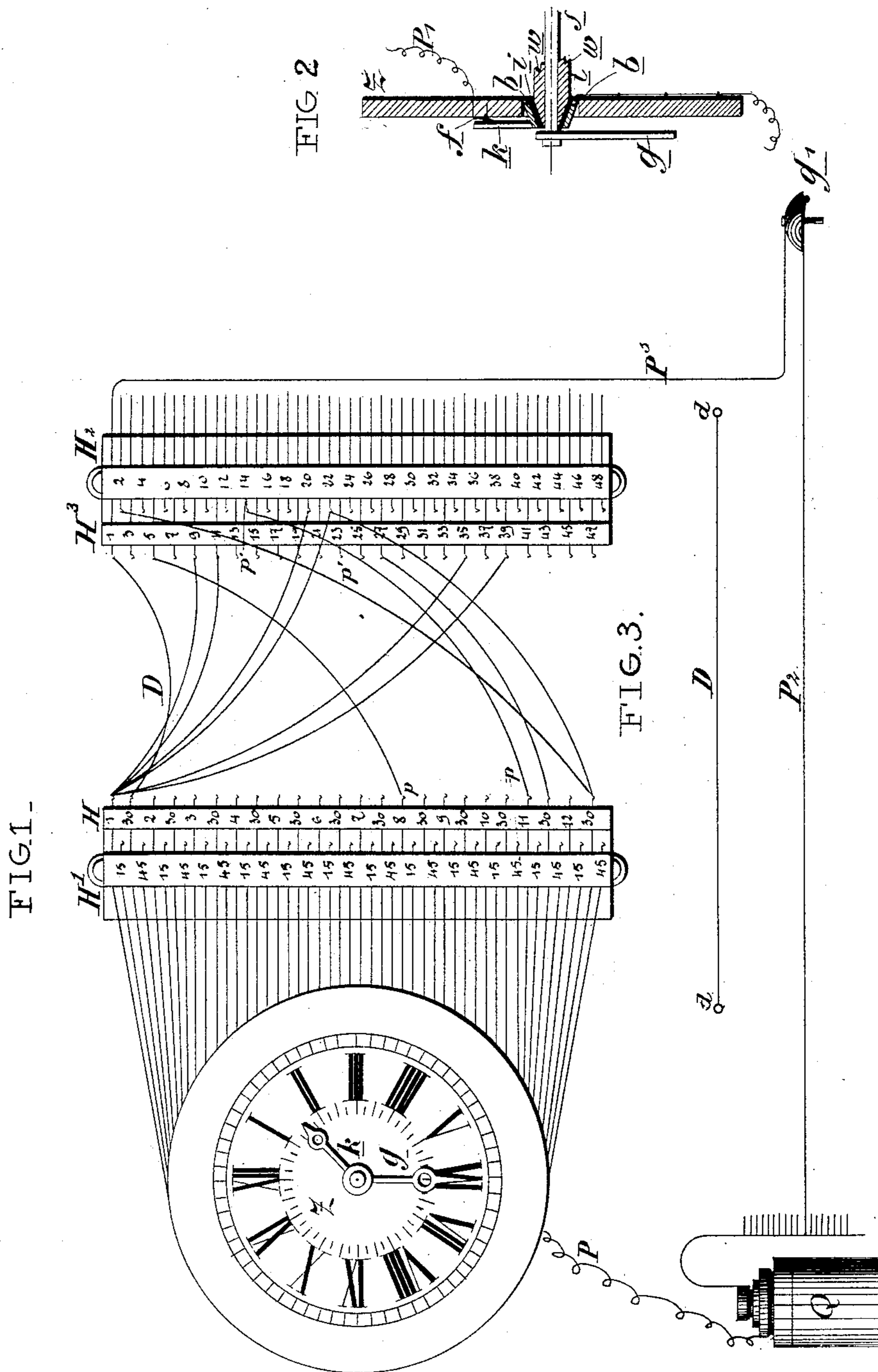


(No Model.)

W. WILKE.  
ELECTRICAL TIME ALARM.

No. 533,979.

Patented Feb. 12, 1895.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WALTHER WILKE, OF WERMELSKIRCHEN, GERMANY.

## ELECTRICAL TIME-ALARM.

SPECIFICATION forming part of Letters Patent No. 533,979, dated February 12, 1895.

Application filed August 7, 1894. Serial No. 519,645. (No model.)

*To all whom it may concern:*

Be it known that I, WALTHER WILKE, a citizen of the Kingdom of Prussia, residing at Wermelskirchen, in the Kingdom of Prussia, in the German Empire, have invented certain new and useful Improvements in Electrical Time-Alarms; 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.

The object of this invention is to provide improved means for automatically awakening by electrical means the occupants of different rooms in hotels or other buildings and for similar purposes.

To this end the said invention consists in the construction and combination of parts, substantially as hereinafter set forth and claimed.

In the accompanying drawings, Figure 1 represents a diagram or plan of the apparatus embodying my invention. Fig. 2 represents a vertical central section through the clock dial forming part of the same. Fig. 3 represents a detail view of one of the detachable connecting wires D.

Z designates the dial face of an ordinary clock divided into hours and quarters, and *k* and *g* designate the short and long hands which travel over the same, being carried by arbor *s*, Fig. 2. The long hand *g* is directly attached to the said arbor while the short hand *k* is mounted on a conoidal shell *b* which is separated on the inner side by an electrically insulating packing *i* of similar form from a hub *w* on the said arbor. The said short hand has a contact spring *f* near its tip extending inward so as to come into contact with any one of forty eight wires *P'* respectively corresponding to the said quarter of an hour divisions, which wires are passed through the said dial from the back, each of them having its end bent down on the face of the said dial and in position for such contact. *H* and *H'* designate two strips of wood through which these wires pass in regular order, the said strips being marked opposite the said wires respectively to indicate the time corresponding thereto. These graduations are arranged alternately, the full hours and half hours being marked on the strip *H*

and the first and third quarters on the strip *H'*. These wires end in hooks *p* after passing through these strips. From these hooks which are near the clock, detachable wires *D* having eyes *d* on their ends as shown in Fig. 3 extend to hooks *p'* on the corresponding ends of a like series of forty-eight wires *P<sup>3</sup>* extending through similar strips *H<sup>2</sup>* *H<sup>3</sup>* graduated with the numbers of the rooms. Each room is provided with an electrical alarm *g'* connected to one of the said wires *P<sup>3</sup>*. Each of these alarms is also electrically connected to a wire *P<sup>2</sup>* which extends to an electric generator *Q* connected with the shell *b* aforesaid by a wire *P*, so as to complete the electric circuit and ring the electric alarm of a room whenever the spring *f* of hand *k* comes in contact with a wire *P'* which is connected to the wire *P<sup>3</sup>* belonging to the said room, such connection of course depending on the attachment of the ends of the said wire *D* to one or another of the hooks of each series.

In Fig. 1 by way of illustration connection is shown as made for one o'clock with the six bedrooms numbers 9, 11, 20, 22, 35, and 39; for half past one o'clock with room 1 and so on. The connecting wires *D* are easily shifted so as to vary these combinations at will, with the result of varying also the hour of the alarm. Any room may be left quite undisturbed at all hours by disconnecting its wire *D* altogether.

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

The combination of the arbor *s* hub *w* mounted thereon, insulating packing *i* on the conoidal end of said hub, the conoidal shell *b* fitting on the said packing, the hand *k* carried by said shell, contacts arranged to be successively touched by an attachment of the said hand as the latter is carried around by the said arbor, and circuit wires making connection with the said shell and the said contacts substantially as and for the purpose set forth.

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

WALTHER WILKE.

Witnesses:

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