

automatic starting type, but it is not provided with any device for determining the direction of its rotation, which can take place in any direction.

5 What I claim as my invention and desire to secure by Letters Patent is:

1. In a clock, in combination two transparent plates, one of which constitutes the dial, an intermediate transparent plate arranged between
10 the first two plates, a support fixed on one of the said plates for centrally supporting the intermediate plate, two indicating hands mounted coaxially to the support, means for operatively connecting the said hands, a synchronous motor,
15 with a rotor rotating with a continuous movement, an oscillating lever pivoted at a fixed point and having one end engaging with the intermediate plate, a crank for imparting to the said lever and the intermediate plate rocking move-
20 ments, means for operatively connecting the said crank to the rotor of the motor and means for connecting the indicating hands with the intermediate plate.

2. In a clock, in combination two transparent
25 plates, one of which constitutes the dial, an intermediate transparent plate arranged between the first two plates, a support fixed on one of said plates for centrally supporting the intermediate plate, an arbor carried by said support, an indi-
30 cating hand fixed on said arbor, a hub rotatably mounted on said arbor, another indicating hand carried by said hub, gearing connecting said arbor and said hub, a pawl carried by said intermediate plate, a ratchet engaging with said pawl

and rotatably mounted coaxially to the indicat-
ing hands with which it is connected, an oscillat-
ing lever pivoted at a fixed point and having one
end engaging with the intermediate plate, a
crank disk, a trunnion mounted thereon and en-
gaging with the other end of said lever and means
connecting said disk with the rotor of the syn-
chronous motor.

3. In a clock, in combination two transparent
10 plates, one of which constitutes the dial, an intermediate transparent plate arranged between
the first two plates, a central hub on the said intermediate plate, a support fixed on one of the
first plates for supporting said hub, an arbor
15 mounted coaxially to the said support and carrying at one end an indicating hand, teeth on
said arbor, a second hub fixedly mounted on said arbor, a spring interposed between said support
and a shoulder of said arbor for pressing said
20 second hub against said support, a pawl journaled on the hub of the intermediate plate, a
ratchet engaging said pawl, a third hub having
teeth, a second indicating hand mounted thereon,
gearing for connecting the latter teeth with the
25 teeth of the arbor, a frame for supporting the two transparent plates, a synchronous motor
with a rotor rotating with a continuous movement, an oscillating lever pivoted at a fixed point
and having one end engaging with the intermediate
30 plate, a crank disk, a trunnion mounted thereon and engaging with the other end of said
lever and means connecting said disk with the rotor of the synchronous motor.

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