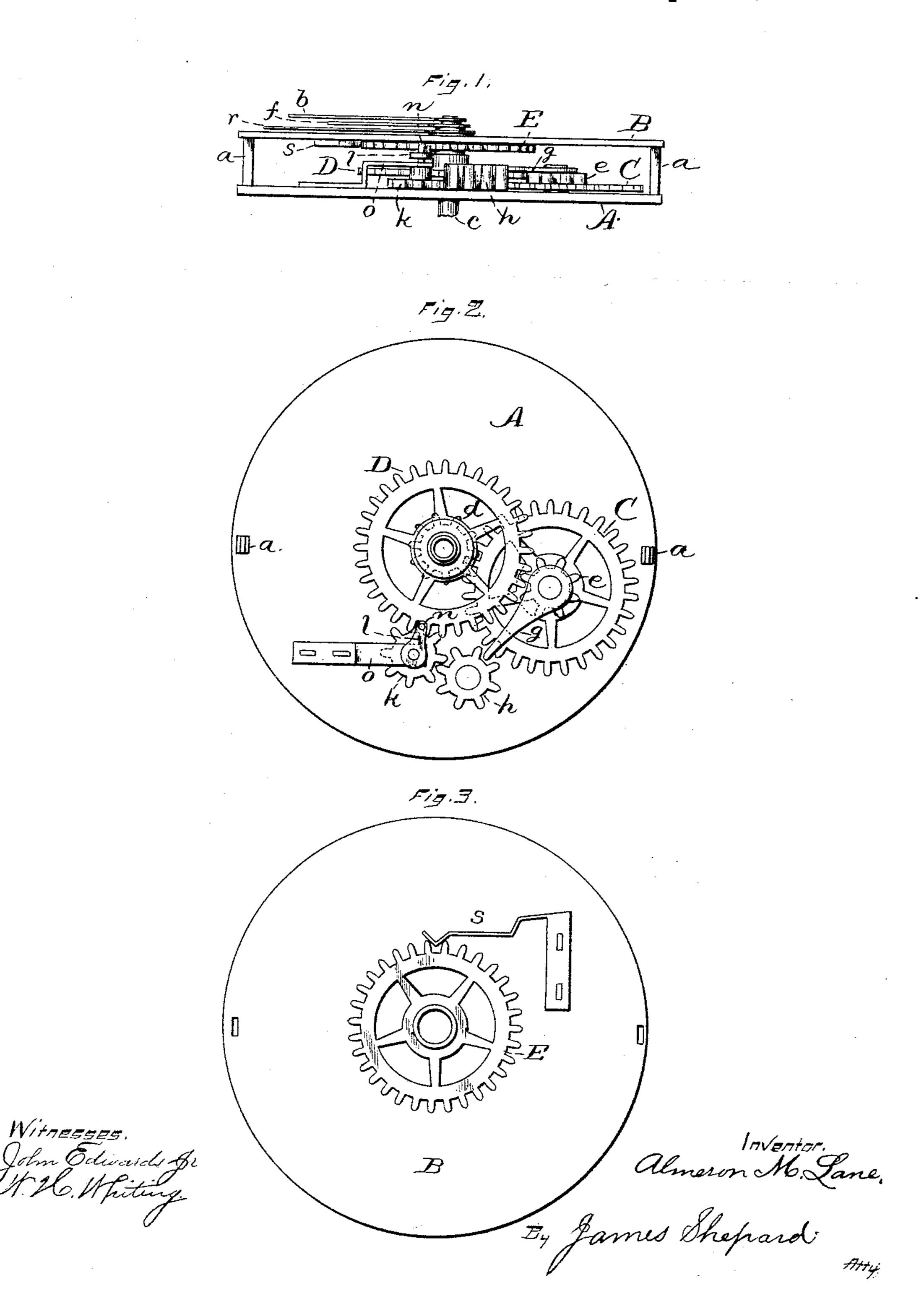
## A. M. LANE.

CALENDAR CLOCK.

No. 348,981.

Patented Sept. 14, 1886.



## United States Patent Office

ALMERON M. LANE, OF MERIDEN, CONNECTICUT.

## CALENDAR-CLOCK.

SPECIFICATION forming part of Letters Patent No. 348,981, dated September 14, 1886.

Application filed February 23, 1886. Serial No. 192,746. (No model.)

To all whom it may concern:

Be it known that I, Almeron M. Lane, a citizen of the United States, residing at Meriden, in the county of New Haven and State of 5 Connecticut, have invented certain new and useful Improvements in Calendar-Clocks, of which the following is a specification.

My invention relates to improvements in calendar-clocks; and the main object of my to invention is to produce an inexpensive mech-

anism that occupies but little space.

In the accompanying drawings, Figure 1 is a side elevation of my calendar, together with the front plate and other portions of a clock. 15 Fig. 2 is a front elevation of the same, but with the clock-dial, the pointers, and the dayof-the-month wheel removed; and Fig. 3 is a rear elevation of the dial and the day-of-themonth wheel. All of said figures are on an 20 enlarged scale.

A designates the front plate of the clockmovement, and B the dial, which is secured to said front plate by means of pillars a a. The minute-hand b is on the shaft c, Fig. 1, having 25 pinion d, Fig. 2, and this pinion meshes into | spur g to the minute-wheel of any ordinary the wheel C, to which wheel is attached the pinion e, the latter engaging with the twelvehour wheel D, mounted on a tubular shaft or socket and carrying the hour hand f, all as in

30 ordinary clocks.

The wheel C and attached pinion e revolve once in three hours. I attach to the end of the pinion e an arm or spur, g, which engages the teeth of pinion h, mounted on a stud on 35 the front of the front plate, A. This pinion h meshes into pinion k, which is rigidly connected to a short shaft having at its front end an arm, l, upon the end of which arm is a trippin, n. The shaft on which the pinion k is 40 mounted has one of its bearings in the bridge o, which bridge bears upon the hub of the pinion k with sufficient force to hold it against accidental rotation. The day-of-the-month wheel E is pivoted by means of a hollow 45 shaft to the dial B, which shaft carries at the front end the calendar-pointer r. This dayof-the-month wheel is held against accidental rotation by means of the spring s, as in ordinary calendars. The pin n upon the arm l50 serves as a trip pin or point for engaging the teeth of the day-of-the-month wheel E.

The operation is as follows: The spur or arm g once in three hours engages with the !

pinion h, and thereby moves said pinion and the pinion k one-eighth of a revolution. This 55 movement will take place eight times in twenty-four hours, and consequently the pinion k and its trip-pin n, moving intermittently once in three hours, will make one revolution every twenty-four hours, and thereby move 60 the day-of-the-month wheel and its pointer a space which will represent one day upon the dial.

I have described the spur g as secured to the end of the pinion e to serve as a trip-pin; 65 but it is evident that the place of attachment is not essential, as any trip pin or arm attached at any point of the pinion e or its wheel C, so as to engage the pinion h for each revolution of the pinion and wheel e C, will answer the 7C

same purpose.

The wheel C is what is technically termed the "minute-wheel." In the particular movement illustrated it revolves once in three hours; but I do not wish to confine my inven- 75 tion to a three-hour minute-wheel, and therefore reserve the right to apply the point or time-piece.

The intermediate pinion, h, is employed in 8corder to make the calendar-pointer r travel in the same direction as the hands of the clock. Otherwise it might be dispensed with, and the spur or arm g be made to engage directly with the pinion k, which carries the trip-pin n.

It will be seen that the construction is very simple and the mechanism occupies but a little space, especially from front to rear, so that it may be applied to a small clock or watch without materially increasing the thickness 90 thereof.

I claim as my invention—

In a calendar-clock, the combination of the minute-wheel and attached pinion C e, earrying trip pin or spur g, the intermittently-ro- 95 tating pinion k, operatively connected with the pointer or spurg, and having the trip pin or point n attached and rotating with said pinion k, and the day-of-the-month wheel E, the teeth of which are acted upon by the pin 100 n, substantially as described, and for the purpose specified.

ALMERON M. LANE.

Witnesses:

JAMES SHEPARD, JOHN EDWARDS, Jr.