

No. 711,473.

Patented Oct. 21, 1902.

S. D. CHAMBERS.

CALENDAR.

(Application filed Feb. 4, 1902.)

(No Model.)

FIG. 1.

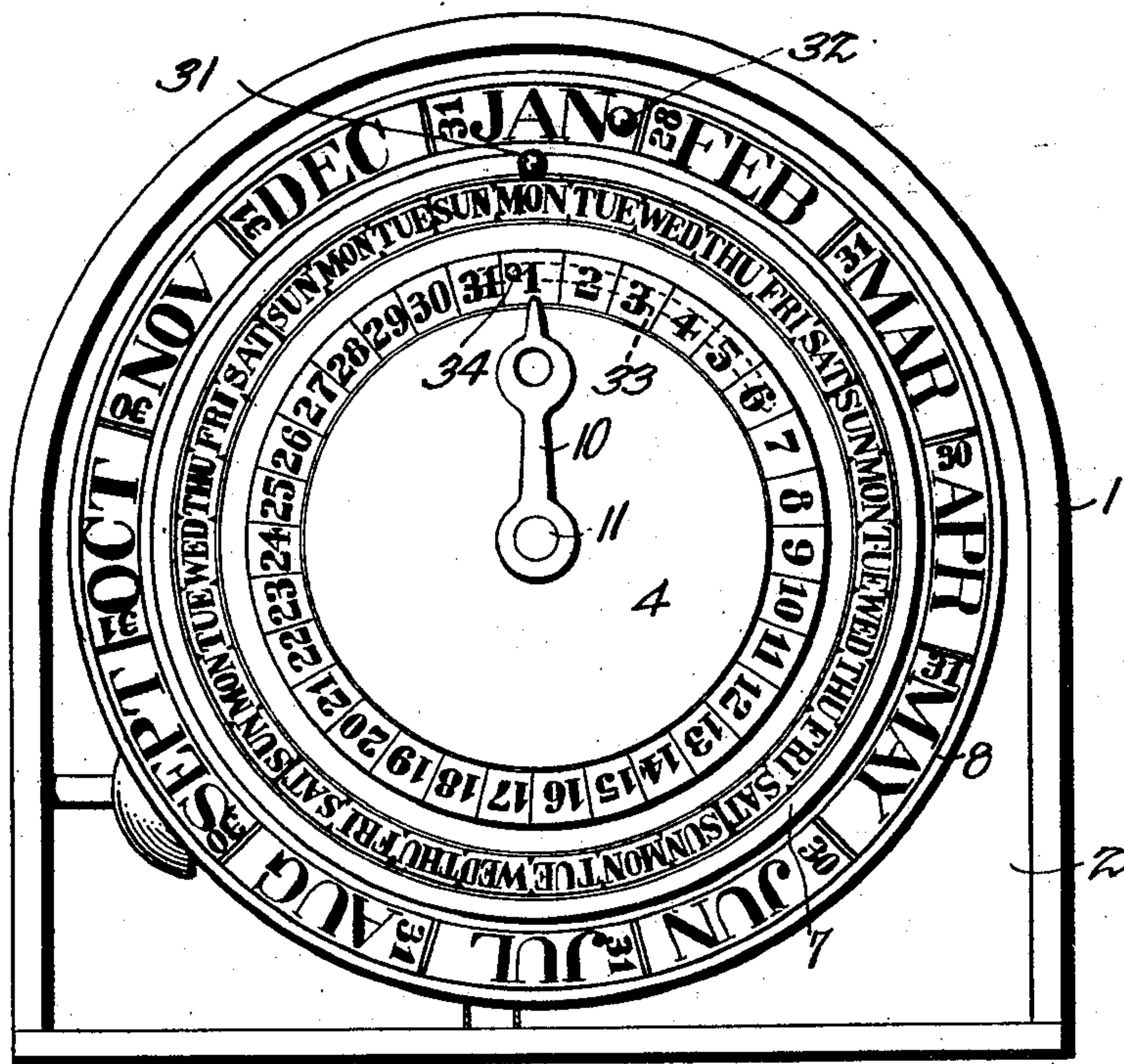


FIG. 2.

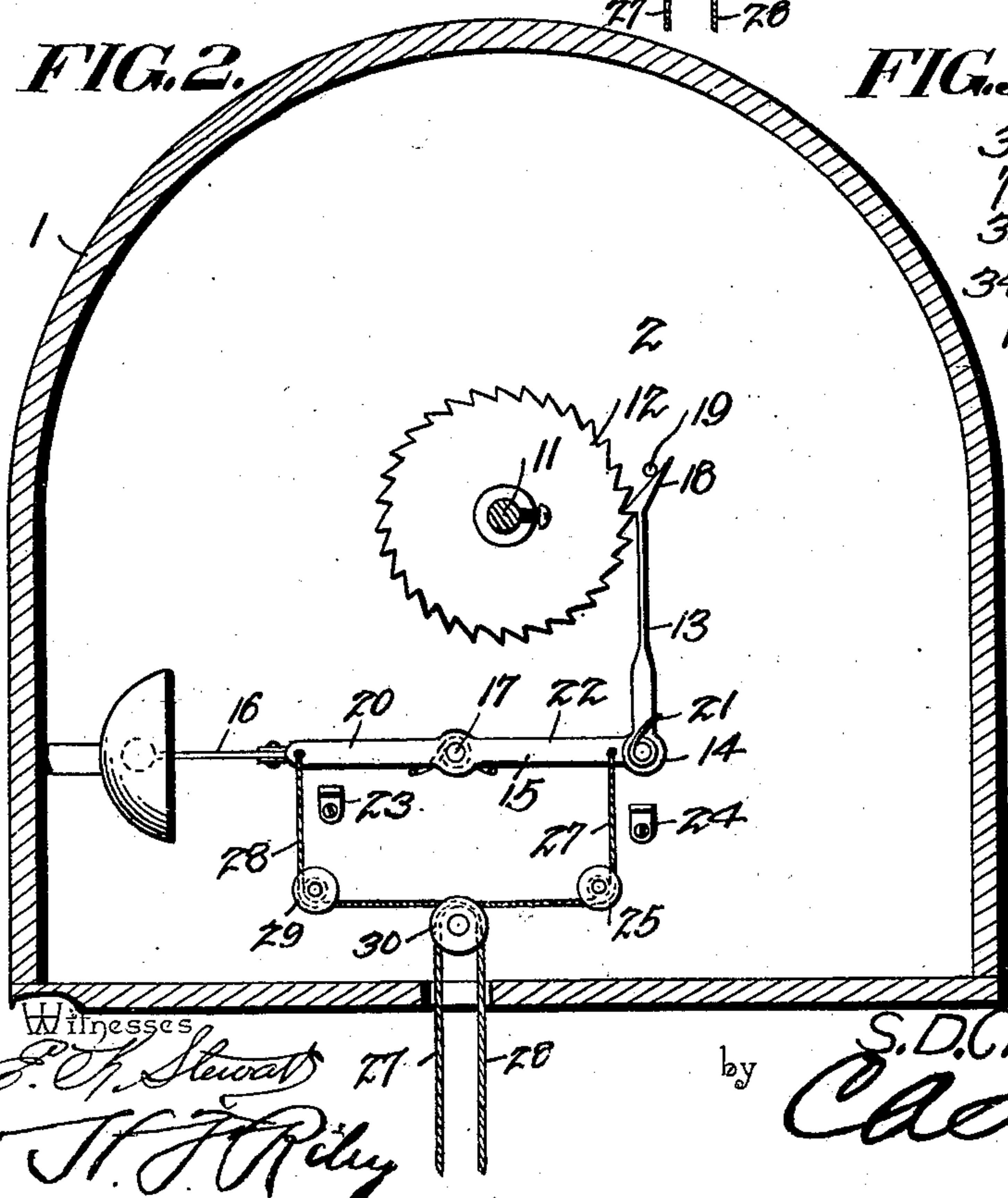
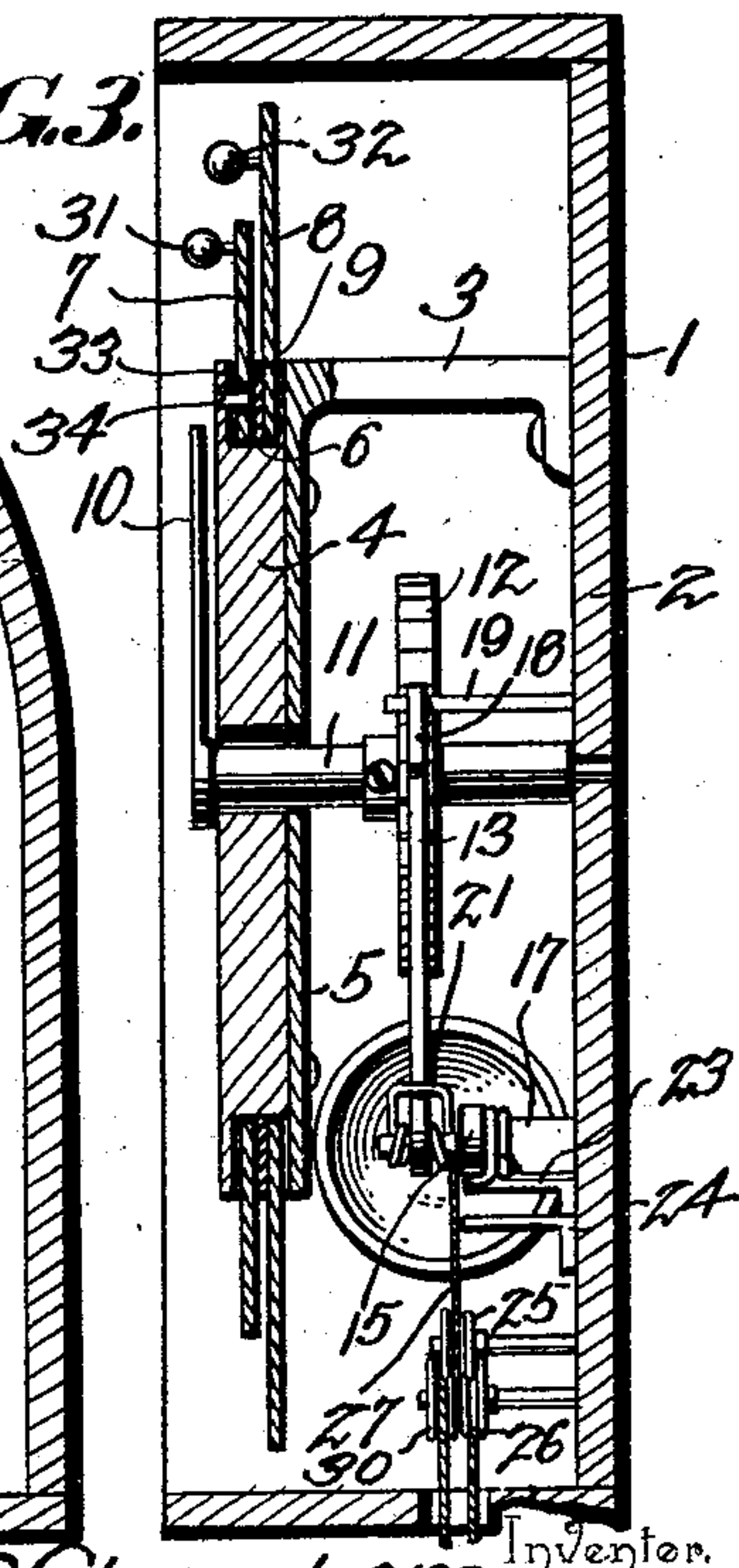


FIG. 3.



Witnesses
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SAMUEL D. CHAMBERS, OF WARREN, NORTH CAROLINA.

CALENDAR.

SPECIFICATION forming part of Letters Patent No. 711,473, dated October 21, 1902.

Application filed February 4, 1902. Serial No. 92,551. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL D. CHAMBERS, a citizen of the United States, residing at Warren, in the county of Clay and State of North Carolina, have invented a new and useful Calendar, of which the following is a specification.

The invention relates to improvements in calendars.

10 The object of the present invention is to improve the construction of calendars and to provide a simple and comparatively inexpensive one adapted to indicate the month, the day of the month, and the day of the week
15 and capable of enabling the indicating means to be successively advanced and of simultaneously sounding an alarm.

A further object of the invention is to provide a calendar of this character which will
20 be especially adapted for use in hotels, inns, and the like and capable of enabling the alarm mechanism to be operated independently of the indicator-advancing means, so that the said alarm may be sounded at any
25 hour or time for arousing the inmates of a room or for any other purpose.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated
30 in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is an elevation of a calendar constructed in accordance with this invention. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a vertical transverse sectional view.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

40 1 designates a casing open at the front and rounded at the top, as shown; but the said casing may be of any other desired construction, and it has mounted upon its back 2 a bracket 3, which supports a disk or plate 4, arranged as clearly shown in Figs. 1 and 2 of the drawings. The bracket 3 is provided at its front or outer end with a depending vertical arm or portion 5, to which the disk 4 is secured, and the said disk is provided with a
45 peripheral groove 6, receiving rings or dials 7 and 8, which are retained in the groove by the arm 5 of the bracket 3. The bracket has

its upper face arranged in the same plane as the top of the disk or plate 4, and the arm extends to the bottom of the same, forming an inner wall to the groove 6. The dials or rings 55 7 and 8, which are separated by a spacing-ring 9, are capable of rotation to adjust them to bring different portions of their outer faces at the top of the calendar. The dial or ring 60 8, which is of greater diameter than the dial or ring 7, extends beyond the same and is provided at the outer face of its extended portion with the names of the months, as clearly shown in Fig. 1, and the current month 55 is indicated by arranging its name at the top of the calendar. The outer or smaller dial or ring 7 is provided with the names of the days of the week arranged in regular order and of a sufficient number to extend 70 over a period of thirty-one days, and the said dial or ring 7 is adapted to be rotated to arrange it properly for indicating the day of the week the first day of the month falls upon. The stationary dial or disk 4 is provided with 75 a series of numerals ranging from "1" to "31" for indicating the day of the month, and the numeral "1" is located at the top of the calendar, as shown. The day of the month is designated by a rotary indicator or 80 hand 10, mounted on a central shaft 11, journaled in suitable bearings of the dial or disk 4 and the back of the casing and provided with a ratchet-wheel 12, adjustably mounted on the shaft and located in rear of the said dials. 85 The ratchet-wheel is engaged by an upright pawl 13, pivoted at its lower end 14 to one arm of the lever 15, which has its other arm provided with a suitable bell-hammer 16. The lever 15, which is arranged normally in 90 a horizontal position, is pivoted between its ends on a suitable support 17, consisting of a pin or pivot mounted on a bracket or support that is secured to the back of the casing. The pawl 13, which engages the teeth of the 95 ratchet-wheel, has an elongated head 18, provided with a shoulder for engaging the teeth of the ratchet-wheel and having an inclined upper face located adjacent to a guide 19, which consists of an antifriction roller or 100 sleeve and which is adapted to throw the pawl away from the ratchet-wheel when the arm 20 of the lever 15 is swung downward from a horizontal position for the purpose

hereinafter described. The pawl is pressed inward by a spring 21, mounted on the pivot of the lower end of the pawl and having a loop for engaging the latter, and when the arm 22 of the lever is swung downward from a horizontal position the pawl engages the ratchet-wheel and rotates the same the distance of one tooth, which is sufficient to carry the hand or indicator from one numeral of the stationary dial to the next. The movements of the lever are limited by stops 23 and 24, arranged, respectively, beneath the arms 20 and 22. The arm 22 is connected with an operating-cord which passes over pulleys 25 and 26 and which is adapted to operate the lever to advance the hand or indicator. This movement also carries the bell-hammer, which is resilient, into engagement with the bell to sound an alarm when the calendar is changed. The guide-wheel 25 is located directly beneath the point where the cord 27 is attached to the horizontal lever, and the guide-pulley 26 is centrally arranged. The other arm 20 is connected with an operating-cord 28, which passes over guide-pulleys 29 and 30 and adapted to be operated to swing the arm 20 downward to carry the bell-hammer into contact with the bell for sounding an alarm, and the lever is adapted to be operated in this manner without actuating the ratchet-wheel, as the pawl by such movement is carried upward and away from the said ratchet-wheel. The guide-pulley 29 is located beneath the arm 20 of the horizontal lever, and the pulley 30 is arranged at the center, behind the guide-wheel 26. The movement of the operating-lever that is effected by the cord 28 is less than the movement imparted to the lever by the cord 27, and the stop 23 is arranged closer to the lever than the stop 24. The cords may extend to any desired point, and the calendar may be arranged in the office or in the respective rooms of a hotel, inn, or the like, and the alarm may be employed for calling bell-boys or for arousing the occupants of the rooms.

The dials or rings 7 and 8 are provided with suitable grips or handles 31 and 32 to enable them to be readily adjusted, and the dial 7 is provided with a slot 33, extending around the dial a distance equivalent to the space occupied by the characters indicating the days of one week and receiving a pin 34, which forms a stop for limiting the movement of the dial. This will be sufficient to enable the dial to be adjusted to bring any day of the week at the top of the calendar. The dial 8 is also preferably provided with numerals indicating the number of days in the various months.

What I claim is—

1. A calendar provided with a movable indicator, an alarm, mechanism for actuating

the indicator and for sounding the alarm, and operating mechanism connected with the said mechanism and capable of operating the same to simultaneously change the calendar and sound the alarm and also to sound the alarm without actuating the indicator, substantially as described.

2. A calendar having a movable indicator, an alarm, a lever provided with means for actuating the indicator and for sounding the alarm, and two independent operating means connected with the lever and adapted, respectively, to simultaneously actuate the indicator and sound the alarm and to sound the alarm without operating the indicator, substantially as described.

3. A calendar having a movable indicator, a ratchet connected with the indicator, an alarm, a lever fulcrumed between its ends and provided at one of its arms with means for sounding the alarm and having a pawl at its other arm for engaging the ratchet-wheel, and operating mechanism connected with the arms of the lever and adapted respectively to simultaneously operate the indicator and sound the alarm and to operate the alarm without actuating the indicator, substantially as described.

4. A calendar having a movable indicator, a ratchet-wheel connected with the same, a lever fulcrumed between its ends, a pawl connected with the lever and engaging the ratchet-wheel, a bell-hammer mounted on the other arm of the lever and adapted to sound an alarm, operating mechanism connected with the arms of the lever and adapted respectively to simultaneously actuate the indicator and sound the alarm and to sound the alarm without actuating the indicator, and means for moving the pawl away from the ratchet-wheel when the operating mechanism is employed for sounding an alarm only, substantially as described.

5. A calendar having a movable indicator, a lever fulcrumed between its ends, a ratchet-wheel connected with the indicator, a pawl engaging the ratchet-wheel and connected with one arm of the lever, said pawl being provided with an inclined or angularly-disposed face, a guide arranged to be engaged by the face to throw the pawl away from the ratchet-wheel, an alarm having its operating means connected with the lever, and independent operating means connected with the arms of the lever, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SAMUEL D. CHAMBERS.

Witnesses:

J. ROSS COLHOUN,
J. H. JOCHUM, Jr.