

No. 686,523.

Patented Nov. 12, 1901.

H. LEWIS.  
TIME ALARM.

(Application filed Jan. 11, 1901.)

(No Model.)

Fig. 1.

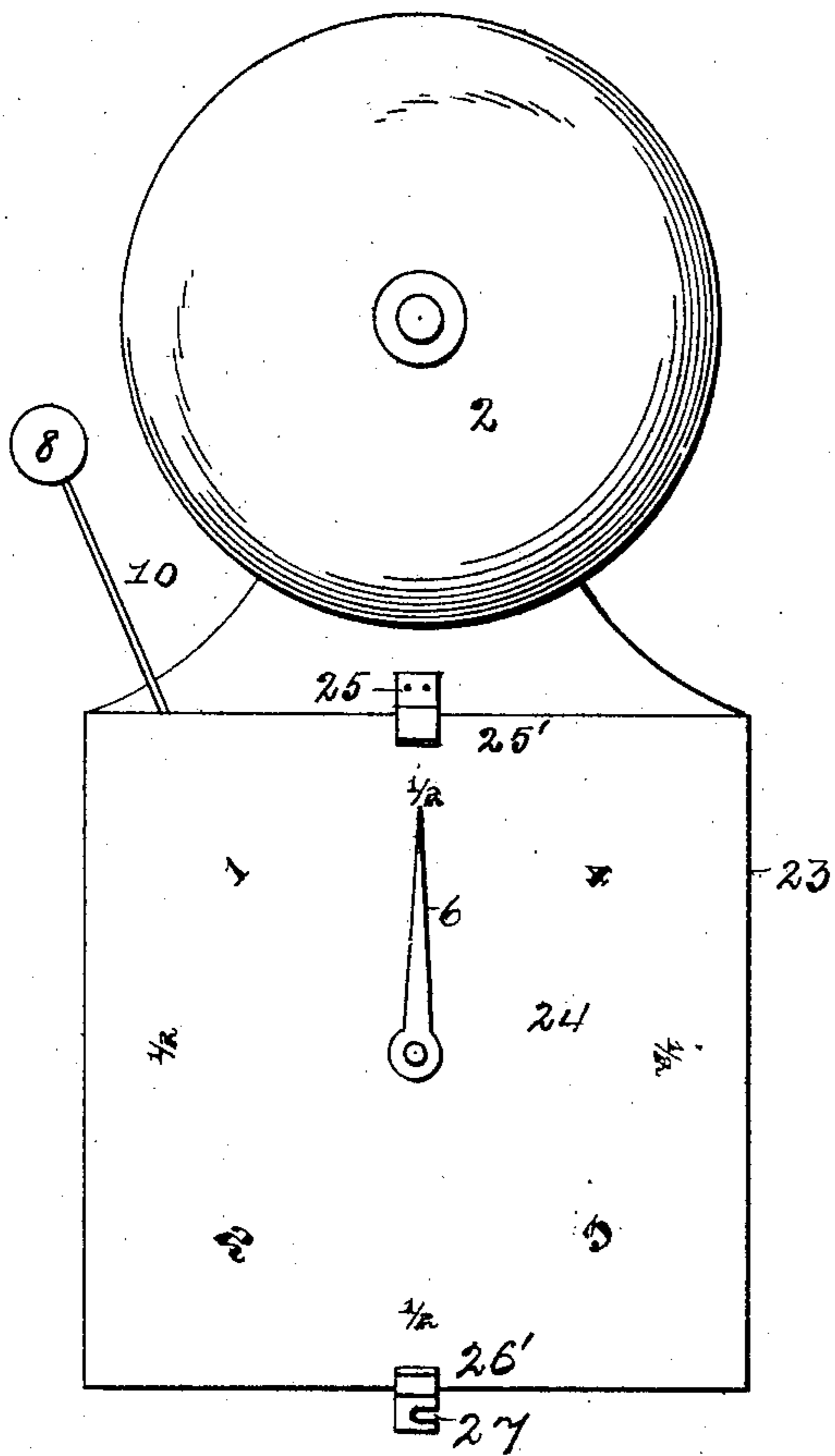


Fig. 2.

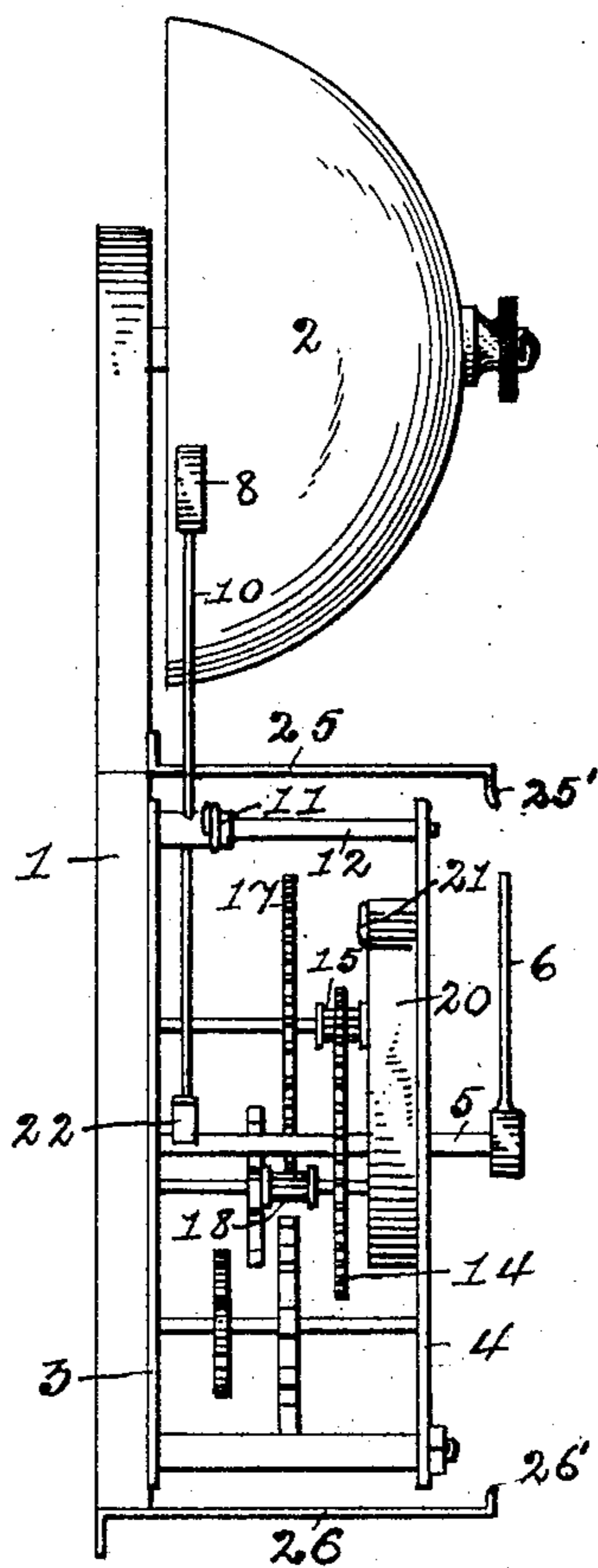
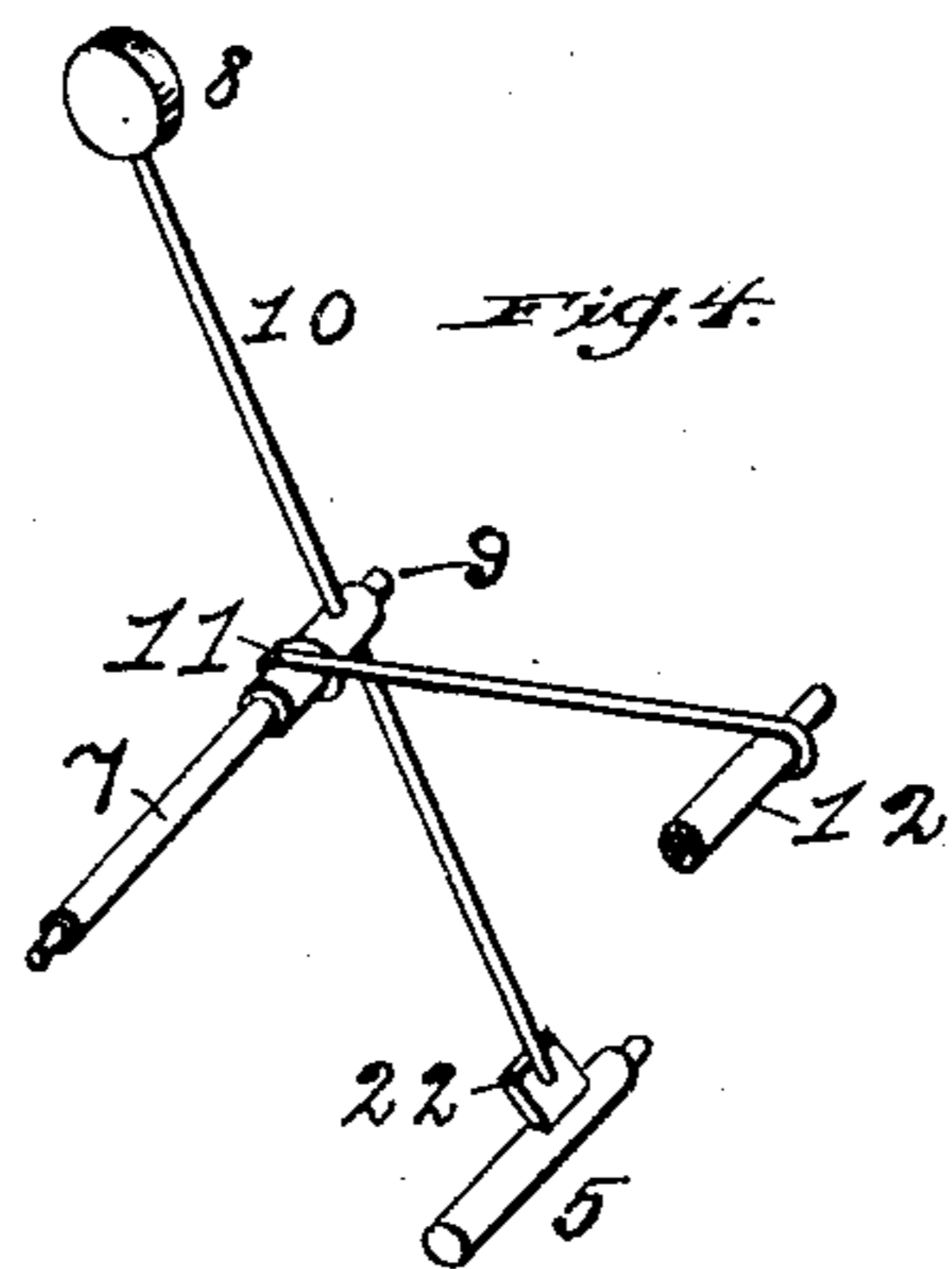
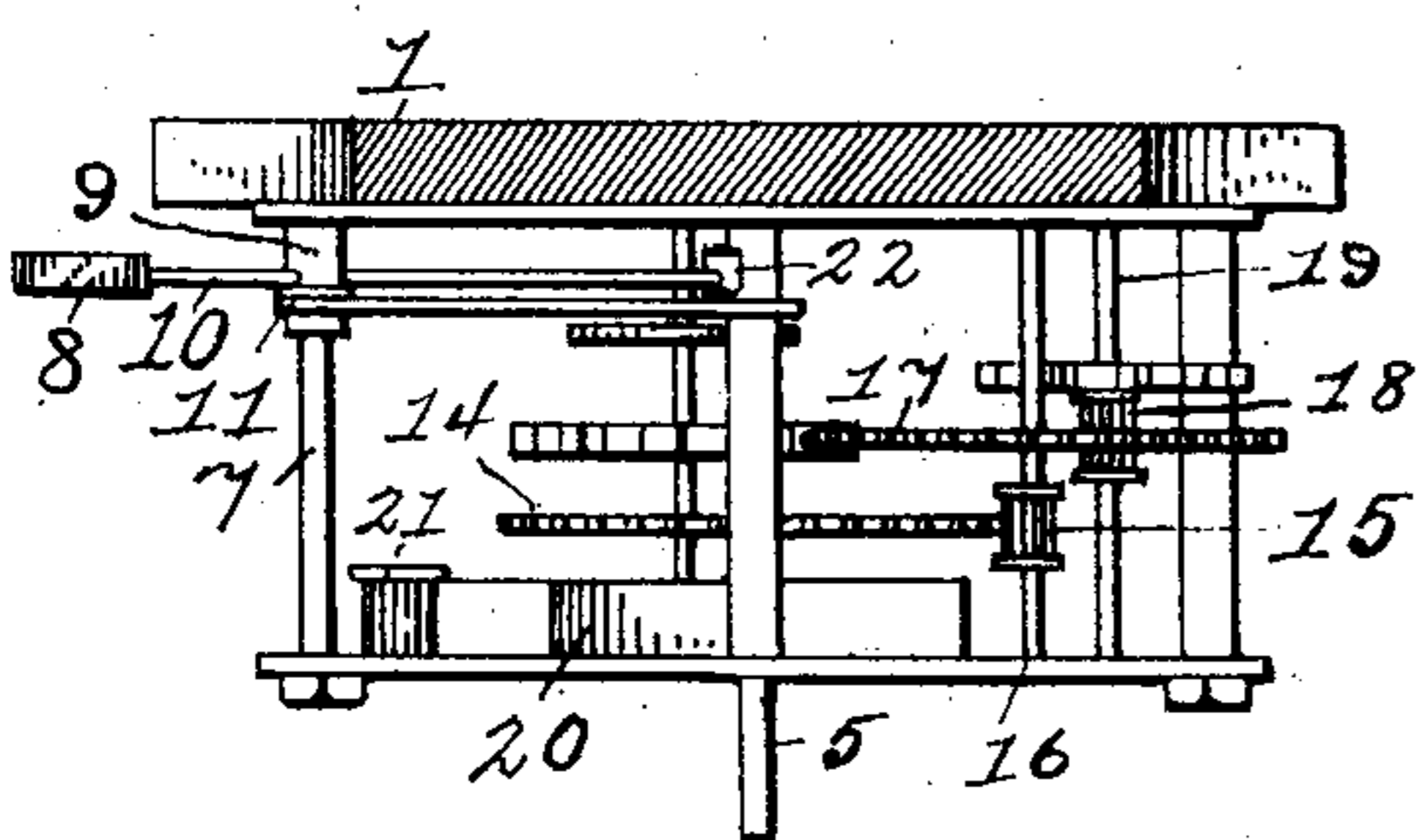


Fig. 3.



Witnesses:  
Harry Morgan  
E. E. Potter

Inventor  
Hubert Lewis  
By  
H. C. Everett & Co.  
Attys.

# UNITED STATES PATENT OFFICE.

HUBERT LEWIS, OF APOLLO, PENNSYLVANIA.

## TIME-ALARM.

SPECIFICATION forming part of Letters Patent No. 686,523, dated November 12, 1901.

Application filed January 11, 1901. Serial No. 42,891. (No model.)

*To all whom it may concern:*

Be it known that I, HUBERT LEWIS, a citizen of the United States of America, residing at Apollo, in the county of Armstrong and State of Pennsylvania, have invented certain new and useful Improvements in Alarm-Timers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in egg-timers, and has for its object to construct a simple, cheap, and effective device by means of which the time desired for the eggs to remain in the boiling water may be accurately controlled.

15 Briefly described, the invention comprises a support to which is attached a clock mechanism and a case having a dial-face, together with a bell-and-hammer mechanism for sounding the bell, with means for attaching the support in position upon the wall or other desirable place.

20 In describing the invention in detail, reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

25 Figure 1 is a front elevation of my improved egg-timer. Fig. 2 is a side elevation with the case removed. Fig. 3 is a horizontal sectional view with the case removed. Fig. 4 is a detail perspective view of a part of the hammer mechanism detached from the apparatus.

30 To put my invention into practice, I provide a suitable base or support 1, near the upper end of which is secured a bell 2 of the ordinary form and mounted upon a spindle in the ordinary manner. Attached to the base or support 1 is a clockwork comprising a rear plate 3 and front plate 4, in which plates the various spindles for the clock-gearing are journaled. The drive-spindle 5 extends outwardly beyond the front plate 4 and has 40 mounted thereon a hand or indicator 6. The spindle 7 for the hammer 8 has mounted thereon a sleeve 9, through which the stem 10 of the hammer extends, and wrapped upon this sleeve 9 is a spring 11, which extends across 45 and has its other end attached to a post 12, secured in the front and rear plates of the framework. The drive-spindle 5 has mount-

ed thereon a wheel 14, which meshes with the pinion 15, carried by the spindle 16, this spindle 16 also having a wheel 17 to mesh with a pinion 18, carried by the spindle 19. Suitable escapement is provided for the clock mechanism. The drive-spindle 5 is connected to the inner end of the spring 20, the other end of this spring being attached to the pin 21, 55 carried on the inner face of the front plate 4. This drive-spindle also carries a lug 22, which is adapted to engage the lower end of the hammer-stem 10, so as to actuate the hammer and cause the latter to sound the bell. 65 The clock mechanism is inclosed by means of a suitable case 23, having on its front face a dial 24, which may be marked, as shown, in half-minute spaces. This frame is held in position by means of the upper clamp 25 and the lower clamp 26. These clamps are connected at their rear ends to the base or support 1, the upper clamp having a downwardly-bent end 25', which engages over the front of the casing 23, and the lower clamp 26 75 having an upwardly-bent end 26', which also engages over the front of the casing 23, as shown in Fig. 1. The rear end of the clamp 26 is bent downwardly and provided with a slot 27 to receive a screw or like means for 80 fastening the device to the wall or any other suitable place.

In operation the pointer or hand 6 is turned around to the minute-mark indicating the time which it is desired to boil the egg, and 85 when this hand or pointer has been returned by the clock mechanism to the ending mark or the specified time the lug or projection 22 will have, just at this time, engaged the hammer-stem 10, so as to actuate the hammer 90 8, causing the same to strike and sound the bell. The spring 20, being connected directly to the drive-shaft, this spring, it will be observed, is wound just sufficiently to operate the clock a number of minutes specified by the indicating-mark to which the hand or pointer is moved, and when the clock runs this length of time the operation of the same ceases until the spring is again wound by again operating the hand. 95 100

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

In a device of the character described, a support, a bell carried by said support at the upper end thereof, a clock mechanism connected to the support and including a drive-shaft, a lug on said shaft, a pointer secured to the outer end of said shaft, a spindle journaled in the frame of the clock mechanism, a sleeve mounted on said spindle, a spring connected at one end to said sleeve, a post to which the other end of said spring is connected, a hammer having a stem extend-

ing through said sleeve and in position to be engaged by the lug on the drive-shaft, a dial, clamps carried by the support above and below the clock mechanism to hold the dial, the lower of said clamps having a slot in its rear end to receive supporting means for the device, substantially as described.

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

HUBERT LEWIS.

Witnesses:

JOHN NOLAND,  
E. E. POTTER.