

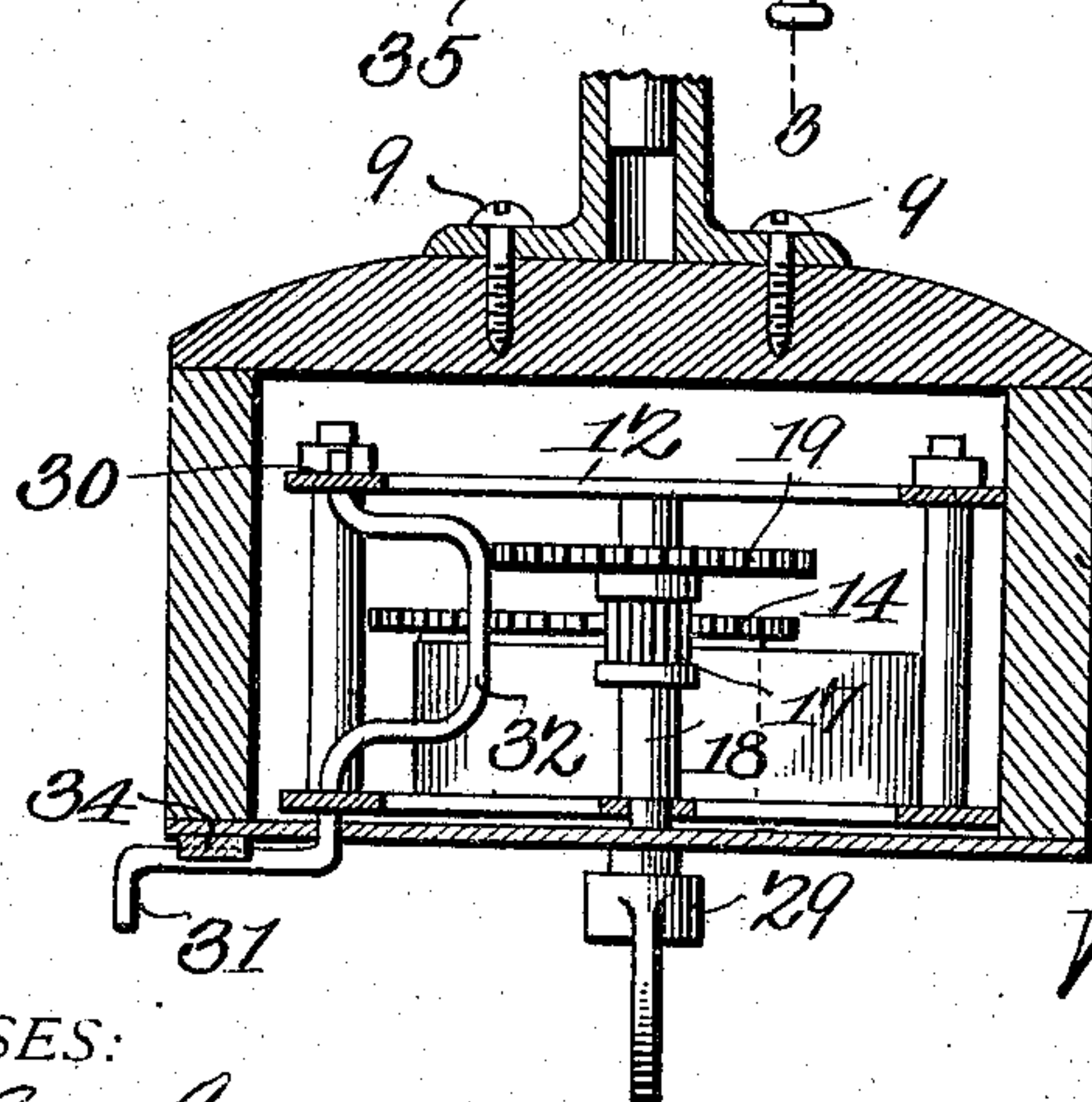
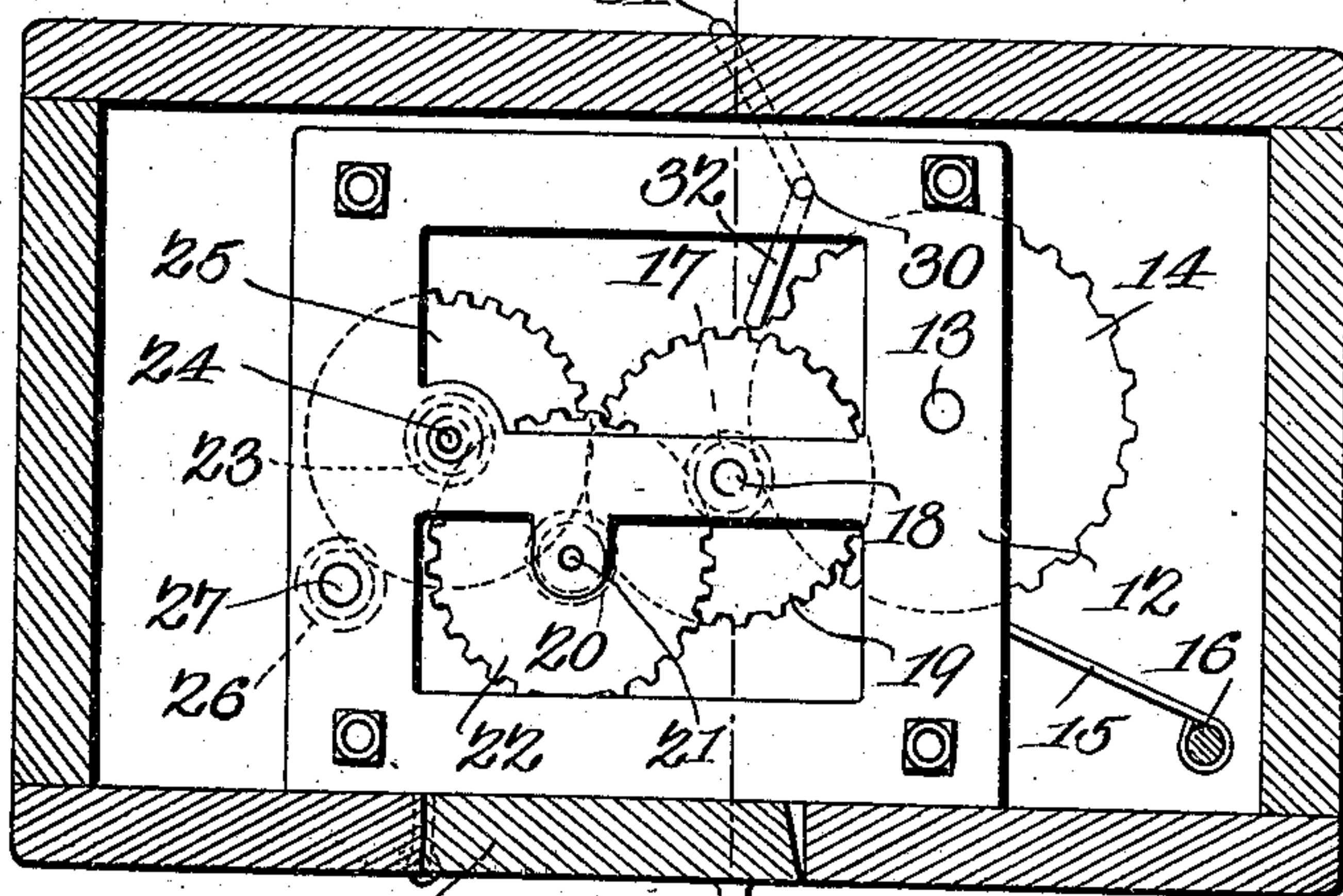
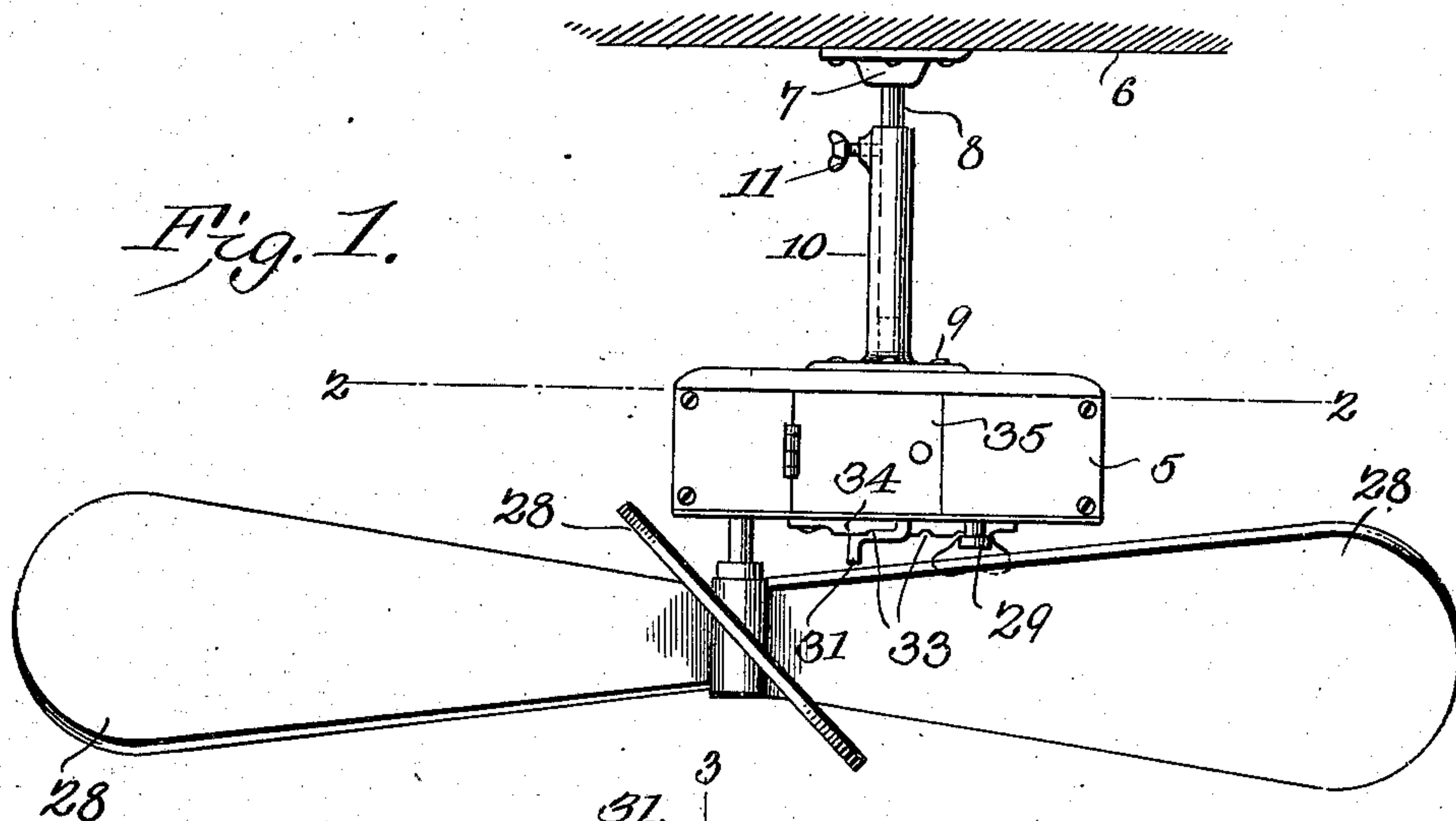
No. 840,594.

PATENTED JAN. 8, 1907.

W. A. TOMISON.

FAN.

APPLICATION FILED MAY 7, 1906.



WITNESSES:

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*L. J. McKee.*

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# UNITED STATES PATENT OFFICE.

WILLIS ALBERT TOMISON, OF WINNSBORO, TEXAS, ASSIGNOR OF ONE-HALF TO JOHN F. HITT, OF WINNSBORO, TEXAS.

FAN.

No. 840,594.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed May 7, 1906. Serial No. 315,640.

*To all whom it may concern:*

Be it known that I, WILLIS ALBERT TOMISON, a citizen of the United States, residing at Winnsboro, in the county of Franklin and State of Texas, have invented a new and useful Fan, of which the following is a specification.

This invention relates to spring-motors, and has for its object to provide a comparatively simple, inexpensive, and efficient device of this character adapted to be suspended from a ceiling or other suitable support for operating a fan.

A further object of the invention is to provide means for adjusting the motor casing or housing vertically with respect to the ceiling or other support and to provide improved means for starting and stopping the motor.

A still further object of the invention is to generally improve this class of devices, so as to increase their utility, durability, and efficiency, as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claim.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a fan constructed in accordance with my invention. Fig. 2 is a transverse sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a transverse sectional view taken on the line 3 3 of Fig. 2.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved device consists of a casing or housing 5, preferably rectangular in shape, as shown, and formed of wood or other suitable material, said casing being suspended from a ceiling or other suitable support 6, to which is secured a hanger 7, provided with a reduced shank or extension 8. Secured to the top of the casing or housing 5, as by screws or similar fastening devices 9, is a tubular member 10, adapted to receive the shank or extension 8, and piercing the walls of the tubular member 10 is a clamping-

screw 11, adapted to engage the shank 8 for locking the casing or housing in adjusted position.

Disposed within the casing or housing is a spring-motor, consisting of a supporting-frame 12, in which is journaled a winding-shaft 13, carrying a master-gear 14 and having attached thereto one end of a motive spring 15, the opposite end of which is secured in any suitable manner to a pin or post 16, fastened to the casing, as shown. The master-gear 14 meshes with a pinion 17, secured to a stub-shaft 18, which also carries a gear-wheel 19, which meshes with the pinion 30. The pinion 20 is secured to and mounted for rotation on a shaft 21, carrying a gear 22, which in turn meshes with a pinion 23 on an auxiliary shaft 24. Secured to the shaft 24 is a gear-wheel 25, which engages a pinion 26, carried by an operating-shaft 27, which latter extends through the bottom of the casing or housing and is provided with a fan 28 of any approved construction. The shaft 13 is provided with a winding-head 29, which also extends through the bottom of the casing, so that the motor may be conveniently rewound when necessary.

As a means for starting and stopping the motor, there is provided a suitable brake mechanism, preferably consisting of a rod or wire, one end of which is journaled in the frame, as indicated at 30, while the opposite end thereof passes through the lower face of the casing and terminates in an operating-handle 31. The intermediate portion of the rod is bent to form a yoke 32, adapted to engage the master-gear 14 when the handle 31 is moved into engagement with one of the notches 33 on a plate 34, and thereby stop the motor, said yoke or brake mechanisms being movable out of the path of master-gear when the handle is moved into engagement with the adjacent notch.

One of the side walls of the casing or housing is preferably formed with a pivoted door 35, so that access may be obtained to the motor when it is desired to oil the train of gearing or repair any of the parts thereof.

By having the casing provided with telescoping members 7 and 10, said casing may be supported at any suitable distance from the ceiling and securely locked in adjusted position, while by having the winding-head and handle of the brake mechanism extended



through the lower wall or face of the housing the latter may be conveniently manipulated when necessary.

From the foregoing description it is thought  
5 that the construction and operation of the device may be readily understood by those skilled in the art, and further description thereof is deemed unnecessary.

Having thus described the invention, what  
10 is claimed is—

The combination with a support, of a casing suspended from the support and adjustable vertically with respect thereto, a door  
15 formed in one wall of the casing, a notched plate secured to the casing, a train of gearing disposed within said casing, a power-shaft connected with the gearing and having one

end thereof extending through the walls of the casing, a fan carried by the power-shaft and disposed in a horizontal plane below the casing, a motive spring for rotating the gearing, and a brake-lever having an intermediate  
20 portion thereof bent to form a yoke for engagement with the gearing and its opposite end extended through the walls of the casing  
25 and provided with a terminal handle for engagement with the notches in the plate.

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

WILLIS ALBERT TOMISON.

Witnesses:

NEPIE STEVENSON,  
W. C. STEVENSON.