

No. 662,485.

Patented Nov. 27, 1900.

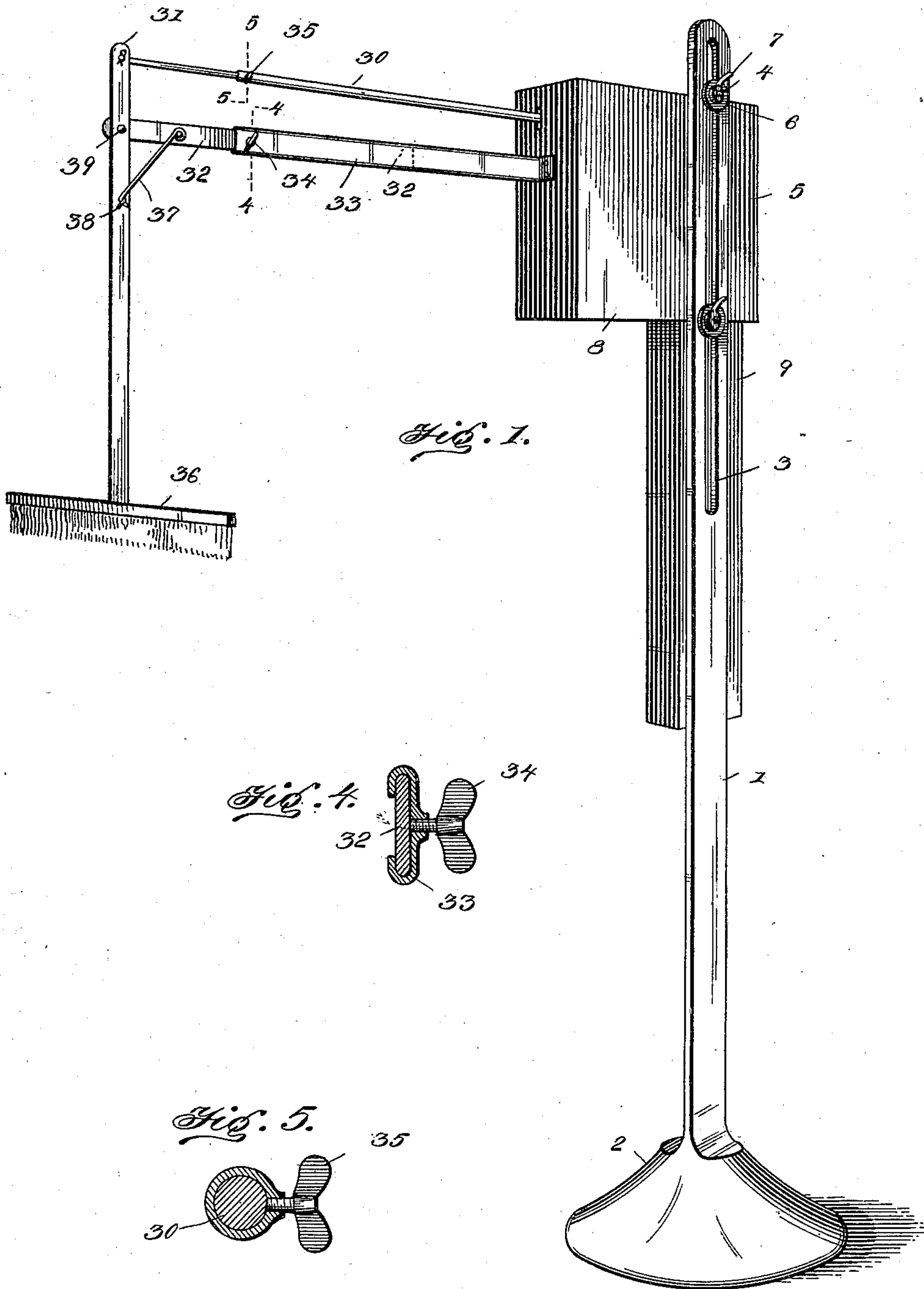
E. E. ALEXANDER.

FAN, &c.

(Application filed May 18, 1900.)

(No Model.)

2 Sheets—Sheet 1.



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2 Sheets—Sheet 2.

Fig. 2.

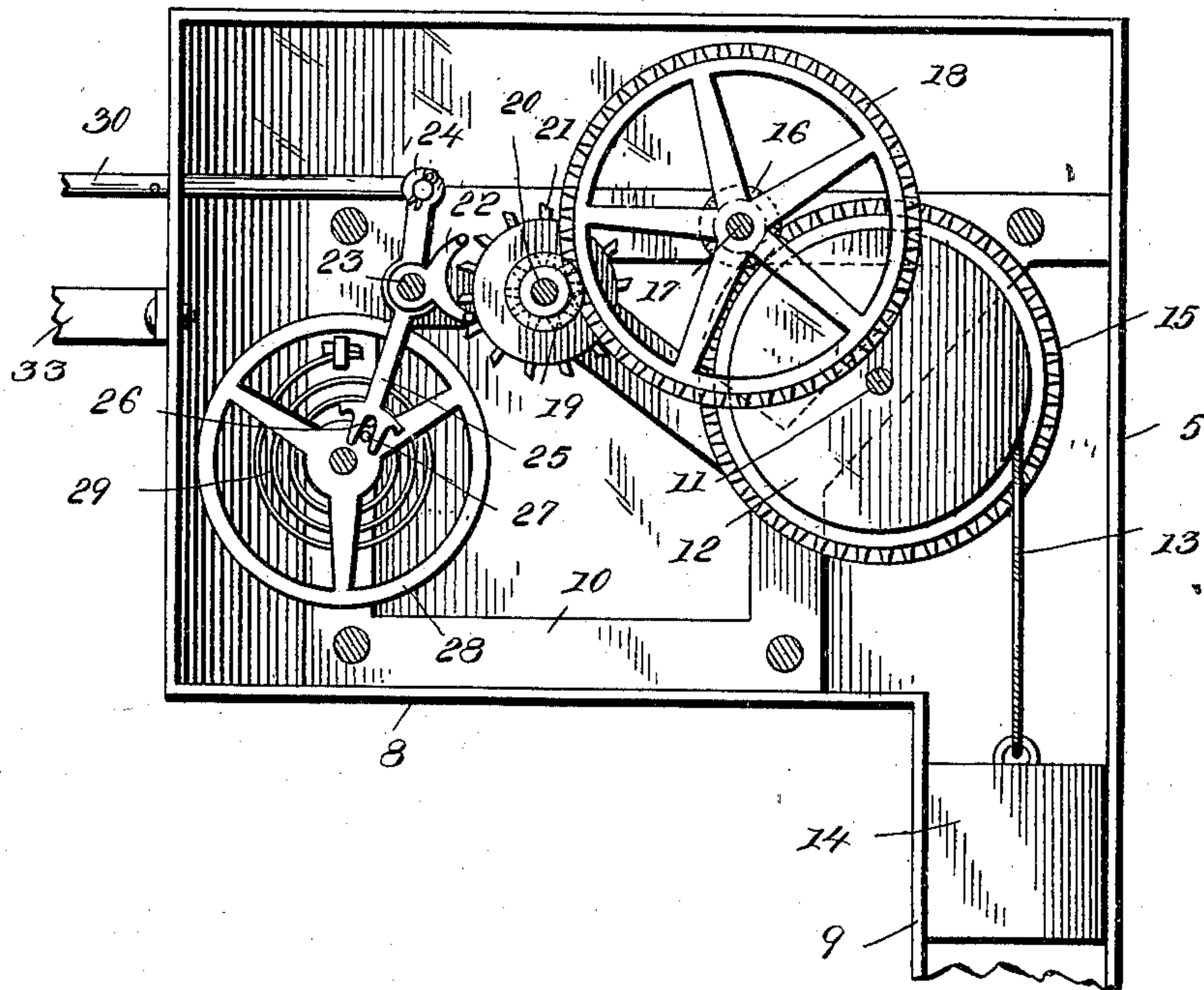


Fig. 3.

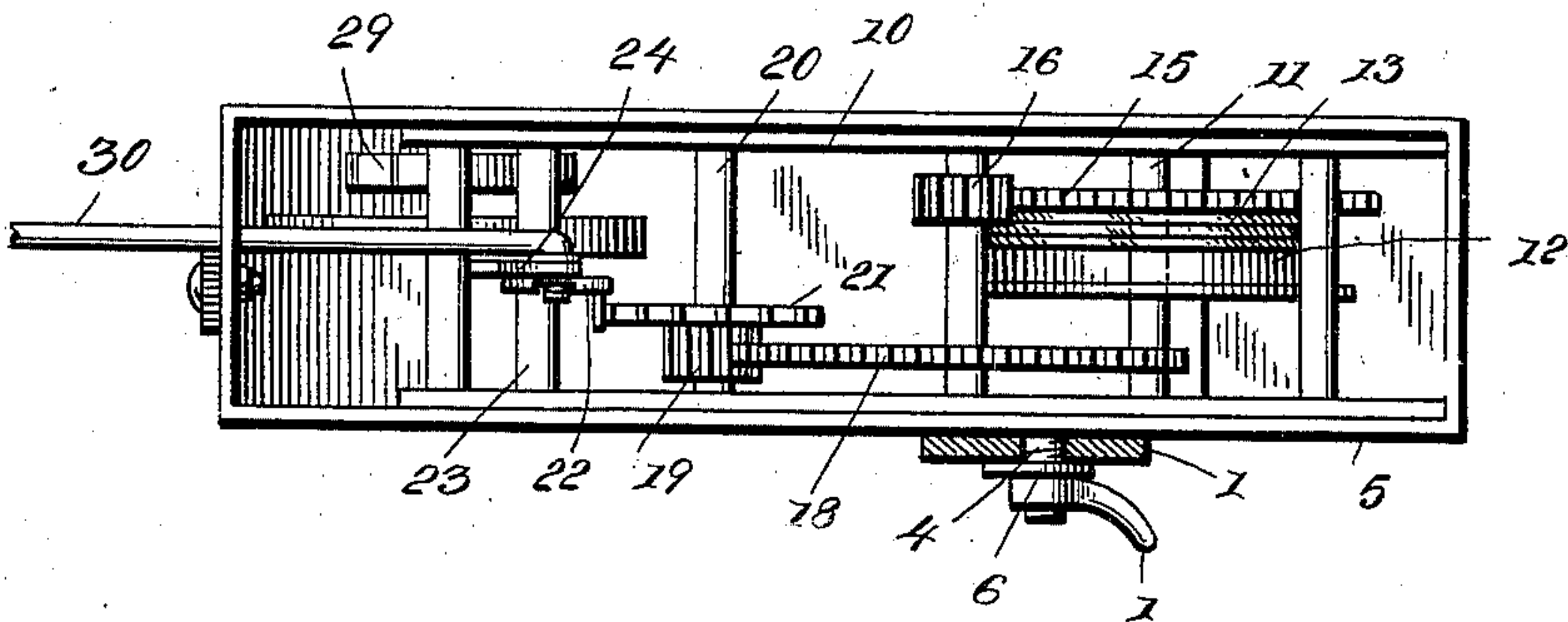
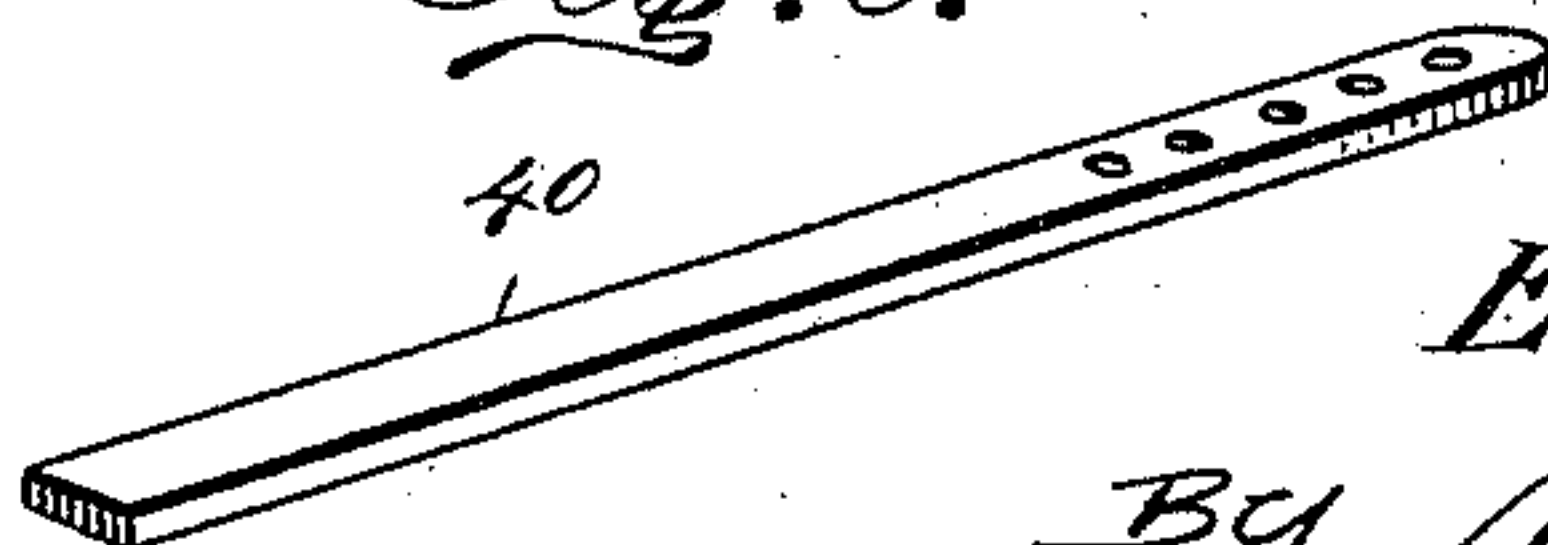


Fig. 6.



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UNITED STATES PATENT OFFICE.

EUGENE E. ALEXANDER, OF PORTERFIELD, TENNESSEE.

FAN, &c.

SPECIFICATION forming part of Letters Patent No. 662,485, dated November 27, 1900.

Application filed May 18, 1900. Serial No. 17,141. (No model.)

To all whom it may concern:

Be it known that I, EUGENE E. ALEXANDER, a citizen of the United States, residing at Porterfield, in the county of Cannon and State of Tennessee, have invented certain new and useful Improvements in Fans, &c., of which the following is a specification.

This invention relates to new and useful improvements in fans; and its primary object is to provide a motor of peculiar construction whereby motion may be imparted to the fan.

A further object is to provide a frame which may be adjusted to a desired height and which has an adjustable arm to which the fan is pivoted, said arm adapted to extend over a bed or table, &c.

To these ends the invention consists in providing a standard to which is adjustably secured a casing having suitable clockwork therein adapted to receive motion in any suitable manner, as from a weight. An arm extends from the casing and has an adjustable rod secured thereto, and a fan is pivoted to this rod and secured, by means of an adjustable pitman, to an arm which is formed with the escapement of the motor.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view of the device. Fig. 2 is a longitudinal section through a portion of the casing. Fig. 3 is a top plan view of the motor. Fig. 4 is a section on line 4 4 of Fig. 1. Fig. 5 is a section on line 5 5 of Fig. 1, and Fig. 6 is a detail view of an attachment.

Referring to said figures by numerals of reference, 1 is a standard, of suitable material, having a base 2, which is of sufficient weight to retain the complete device in an upright position. The standard 1 is slotted, as at 3, to receive bolts 4, which are secured to the casing 5, said bolts having washers 6 thereon, which bear upon the standard and are clamped thereagainst by means of thumb-pieces 7, as shown.

The casing 5 is made of any suitable material and comprises, preferably, an upper rectangular portion 8 and an extension 9 at

the bottom thereof. Within the upper portion 8 is mounted a frame 10 of the motor. Within this frame, near one end thereof, is journaled the shaft 11 of a drum 12, upon which is wound a cord 13, which extends down into the extension 9 and is provided at its end with a weight 14. The drum 12 is provided at one end with teeth 15, which engage with a smaller gear 16, secured to a shaft 17, which is journaled in the frame 10. A toothed wheel 18 is also secured to this shaft and engages with a small gear 19, mounted upon a shaft 20, to which is secured an escapement-wheel 21. The escapement 22 is mounted upon a shaft 23, which is journaled within the frame 10 near the forward end thereof, and this escapement is provided with oppositely-extending arms 24 and 25, the lower one 25 of which is provided at its end with a fork 26. This fork is adapted to receive a pin 27, which projects from the face of a balance-wheel 28, said wheel being controlled by a hair-spring 29, as shown. The upper arm 24 of the escapement is suitably connected to the pitman 30, which extends forward and is pivoted to the upper end of a beam 31, which rocks upon the end of a strip 32, which is adjustable within a bracket or arm 33, extending from the front surface of the casing 5. This strip is preferably held in adjusted position by means of a thumb-screw 34, as shown. The pitman 30 is also formed of two sections, one of which projects into the other and is clamped in adjusted position by means of a thumb-screw 35. The lower end of the pitman 31 is provided with a fan 36, of any desired form, and a hook 37, which is mounted upon the strip 32, is adapted to engage with a staple 38 upon said pitman and prevent movement thereof upon its pivot 39.

It will be readily seen that the fan may be readily adjusted to the proper height and at any desired distance from the standard 1. The cord 13 is then wound upon the drum 12 in any of the well-known ways now employed, causing the weight 14 to be drawn upward to the upper end of the extension 9. It will thus be seen that when the hook 37 is released from engagement with the staple 38 the fan will be rocked upon its pivot 39 by the movement of the escapement 22, which is imparted to the beam through the pitman 30.

It will be understood that the balance-wheel 28 of the arm 25 serves the same purpose as those ordinarily employed in motors of this character.

5 While this device is especially adapted for use as a fan, I do not desire to restrict myself to such use, as, if desired, the same may be employed for rocking cradles, &c., by securing the attachment shown in Fig. 6 to the
10 strip 32 and the pitman 30 and placing the same in contact with said cradle. It will thus be seen that the rocking motion of the strip 40 (shown in said figure) will be imparted to the cradle.

15 I do not restrict myself to any particular form of fan 36, heretofore referred to, as the same may, if desired, be merely employed as a fly-brush.

In the foregoing description I have shown
20 the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve
25 the right to make such changes as fairly fall within the scope of my invention.

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

30 1. The combination with a standard; of a casing adjustably secured thereto; an arm projecting therefrom; a strip adjustably secured within the arm; a rocking beam pivoted thereto; a drum journaled within the
35 casing; a weighted cord thereon; an escapement-wheel; a gear between, and engaging with, said drum and escapement-wheel; a spring-controlled balance-wheel; an arm to the escapement engaging said wheel; a sec-

ond arm thereto; and an extensible pitman 40 pivoted to the said arm and to the rocking beam.

2. The combination with a slotted standard; of a casing; bolts extending therefrom and through the slot; means upon said bolts 45 for clamping the casing to the standard; an arm extending from the casing; a strip slidably mounted therein; a beam pivoted to the strip; means for rocking said beam against movement upon its pivot; a drum journaled 50 within the casing; a weighted cord upon the drum; an escapement-wheel within the casing; a gear between and engaging with said drum and the escapement-wheel; a spring-controlled balance-wheel within the casing; 55 a pin thereon; an escapement; a forked arm thereto engaging the pin; a second arm thereto; and an extensible pitman connecting said arm and the end of the rocking beam.

3. The combination with a slotted standard; of a casing; bolts projecting from the casing and adjustably secured within the slots; an arm projecting from the casing; a rocking beam adjustably secured to the arm; 60 an escapement-wheel journaled within the casing; a drum; a weighted cord upon the drum; means for imparting motion from the drum to the escapement-wheel; an escapement; an arm thereto; a forked end to the arm; a pitman connecting the arm and the 65 rocking lever; a balance-wheel; and a pin thereon engaged by said fork.

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

EUGENE E. ALEXANDER.

Witnesses:

MARTIN BRAGG,
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