E. W. REEVES.

MACHINE BRAKE.

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1,164,116.

Patented Dec. 14, 1915.

Fig. 1.

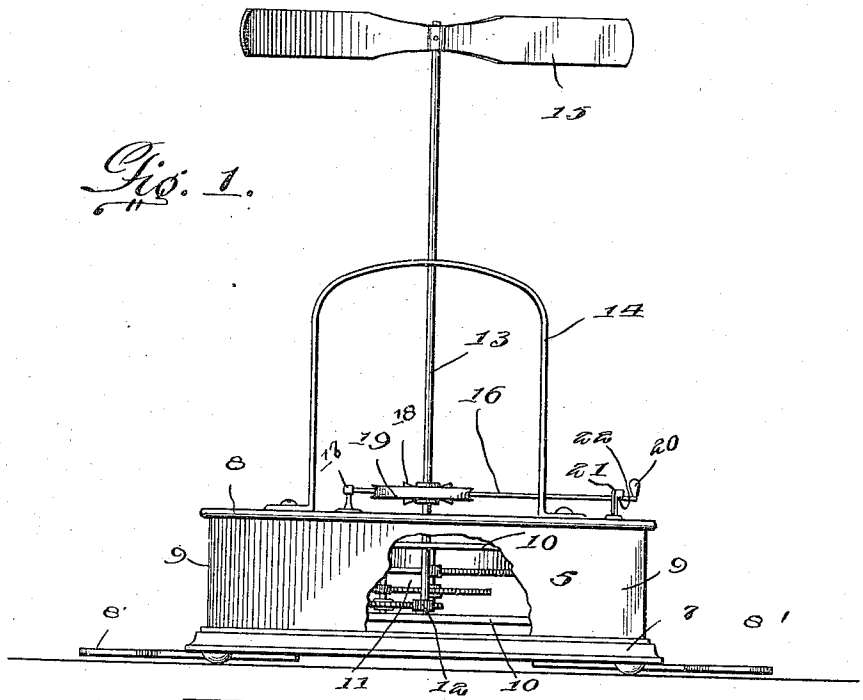
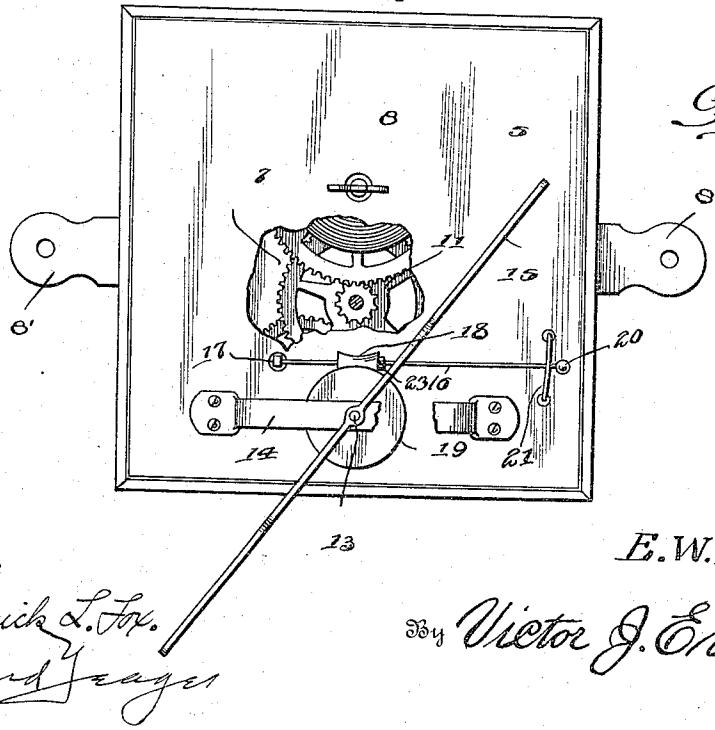


Fig. 2.



Witnesses

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MACHINE-BRAKE.

1,164,116. Specification of Letters Patent. Patented Dec. 14, 1915.

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To all whom it may concern:

Be it known that I, ELIJAH WINSTON REEVES, a citizen of the United States, residing at Corpus Christi, in the county of Nueces and State of Texas, have invented new and useful Improvements in Machine-Brakes, of which the following is a specification.

This invention relates to improvements in automatic fans, and has for its object the provision of a brake of novel construction for regulating the speed of the fan.

Other objects will appear from the following description, when considered in connection with the accompanying drawing, the invention residing in the specific construction, combination and arrangement of parts hereinafter more fully described.

In the drawing forming a part of this application like numerals of reference indicate similar parts in the several views and in which:

Figure 1 is a side elevation. Fig. 2 is a top plan view with the casing partly broken away.

Referring more particularly to the drawing 5 indicates the casing in which is arranged the mechanism for operating the fan. The casing may be constructed from any suitable material, and of any desired contour, but as shown is substantially box-like including a bottom 7, top 8, and side and end walls 9. Detachably secured in any suitable manner to the bottom 7 are plates 8' which project beyond the opposite sides of the casing forming brackets for attaching the fan to any suitable support, the opposite ends of the plates being provided with an opening for the reception of a suitable fastening element for this purpose. Arranged within the casing and secured to the top and bottom thereof is a spring motor including a frame consisting of spaced members 10 between which are journaled the train of gearing or clock-like mechanism 11 operatively associated with the pinion 12 mounted on the end of the fan shaft 13. The latter projects through the top 8 of the casing and through a substantially U-shaped support 14 terminally secured to the said top, and has secured to its outer end the fan 15.

The mechanism employed for regulating the speed of the fan comprises a lever 16 pivotally secured at one end to the top of the casing as at 17, and has arranged thereon a brake shoe in the nature of a rubber sleeve 18 adapted to engage the periphery of the brake drum 19, the latter being fixed to the shaft 13. The lever is provided with a handle 20 and is mounted to swing beneath the ratchet 21 and is adapted to be engaged by the teeth 22 thereof for the purpose of holding the lever in any desired adjusted position as will be readily understood. A collar 23 is carried by the lever immediately in the rear of the sleeve 18 to prevent longitudinal movement thereof upon the lever when in operative engagement with the drum 19. The sleeve is capable of being turned upon the lever with a view of presenting new wearing surfaces for engagement with the drum as the shoe becomes worn, thereby materially prolonging the life of the latter.

It is believed that from the foregoing description the nature and advantages of the invention will be readily understood without requiring a more extended explanation and therefore the same has been omitted.

What I claim is:—

The combination with a rotary shaft, of a brake drum fixed thereto, a lever swingingly supported at one side of the brake shaft, a brake shoe comprising a rubber sleeve surrounding said lever and adapted to engage the periphery of said drum, said sleeve being rotatably mounted upon the lever to present new wearing surfaces, means for preventing longitudinal movement of the sleeve upon the lever when in operative position, and means for holding the lever in adjusted position.

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

ELIJAH WINSTON REEVES.

Witnesses:
JESSE WRIGHT,
MINNIE O. TALBOTT.