(No Model.)

W. H. CLAYTON & B. L. EMBRY.

SEWING MACHINE MOTOR ATTACHMENT.

No. 343,887. Patented June 15, 1886.

Fig. 1.

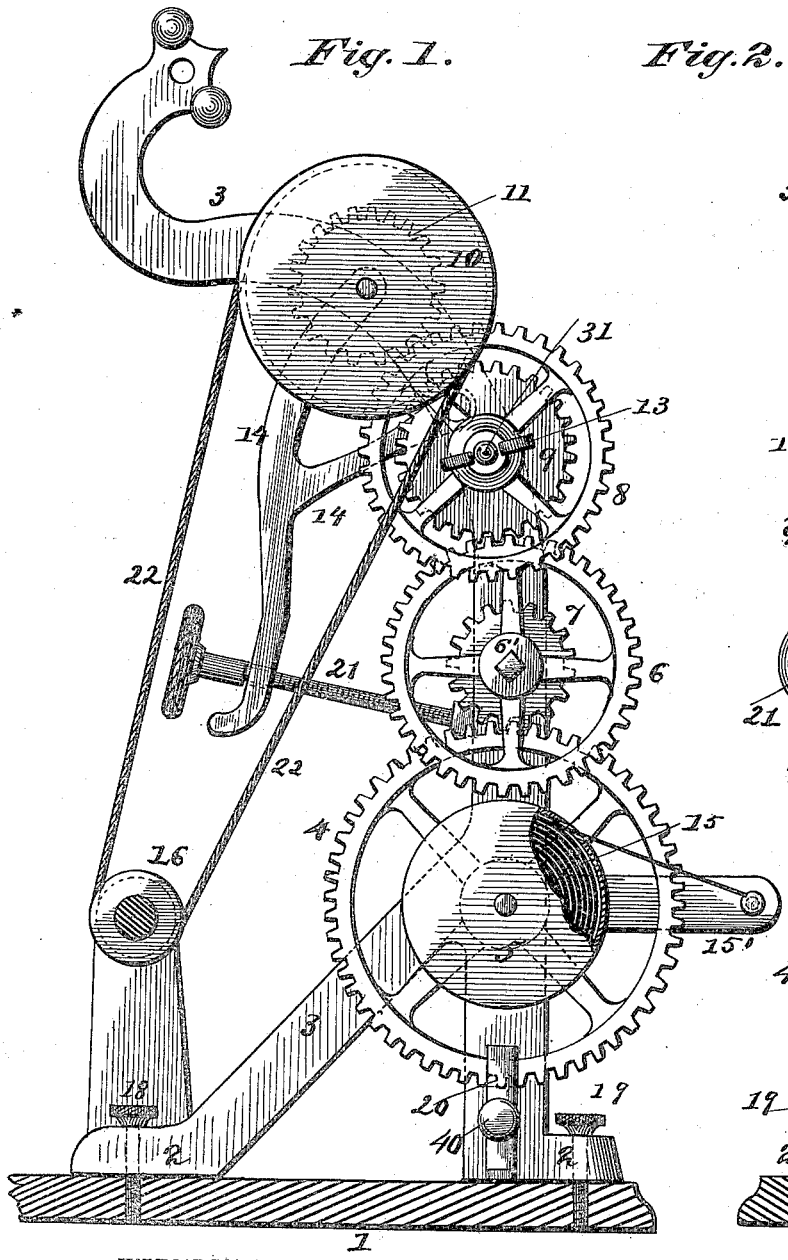
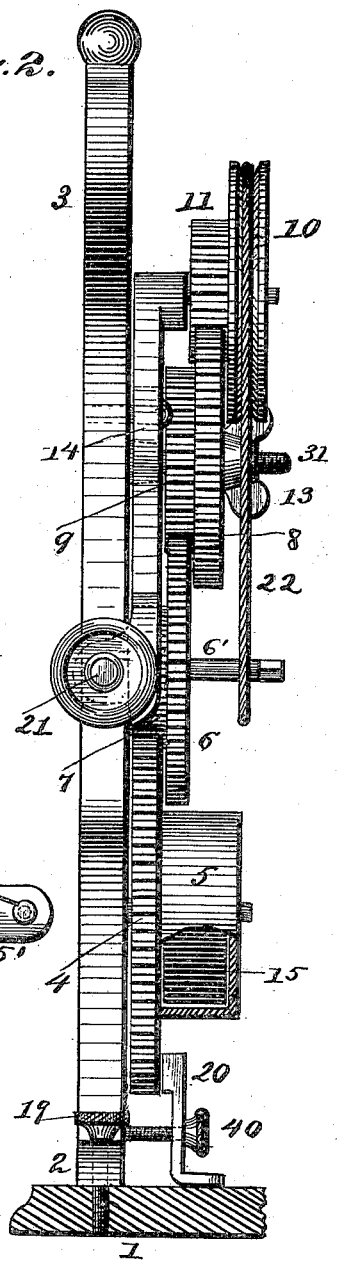


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM HENRY CLAYTON AND BARNETT LINTON EMBRY, OF VILLA RICA, GEORGIA.

SEWING-MACHINE-MOTOR ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 343,887, dated June 15, 1886.

Application filed February 11, 1886. Serial No. 191,635. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM HENRY CLAYTON and BARNETT LINTON EMBRY, citizens of the United States, residing at Villa Rica, in the county of Carroll and State of Georgia, have invented certain new and useful Improvements in Sewing-Machine-Motor Attachments; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains, to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a front elevation. Fig. 2 is a side or edge view of the same.

Our invention has relation to motors for running sewing-machines and other light machinery; and it consists in the construction and novel combination of parts, as hereinafter set forth, and pointed out in the claims.

Referring to the accompanying drawings, 1 designates a sewing-machine table, and 2 is the base of the motor attachment, and 3 the frame of the same, the latter two being secured to the sewing-machine table by screws 18 and 19.

4 is the driving-wheel, provided with a drum, 5, which incases a spring, 15, the outer end of which is connected by a pin to the horizontal projecting arm 15′, extending out from the frame of the motor.

6 designates a second cog-wheel mounted on a shaft, 6′, in the motor-frame, which shaft 6′ is provided with a pinion, 7, and the teeth of said pinion 7 engage the teeth of a cog-wheel, 8, journaled above said pinion in the frame 3.

8 designates a third cog-wheel, the teeth of which engage the teeth of the pinion 7, and on the shaft of the cog-wheel 8 a pinion, 9, is secured, which engages the cog-wheel 6, and this shaft 31 is provided with a thumb-screw, 13, by which to regulate the tension to permit the motor to run faster or slower, or to stop it entirely when desired.

14 designates a regulator, the arm 14′ of which is pivoted to the main frame, near the upper end of the same, and carries a pinion, 11, and a pulley, 10, on a shaft at its upper end, which is connected by a belt, 22, to a pulley, 16, at the needle-bar on top of the sewing-machine. The lower end of the regulator-arm is provided with a screw-rod, 21, by which the pulley 10 and the gear-wheel 11 are moved into and out of gear with the train of spring-actuated gears. A brake, 20, at the lower end of the frame 3 is regulated by a screw, 40, to permit the driving-wheel 4 to run faster or slower, as may be necessary.

Having described this invention, what we claim by Letters Patent is—

1. The combination, with the frame of the attachment provided with the connected gear-wheels 4, 5, 6, 7, 8, and 9, of the regulating-arm 14, with pinion 11 and pulley 10, the pulley 16 and belt 22, and the regulating screw-rod 21, substantially as specified.

2. The combination, with the frame of the attachment provided with the connected gear-wheels 4, 5, 6, 7, 8, and 9, and the regulating-arm with pinion 11 and pulley 10 at its upper end and the regulating screw-rod 21 at its lower end, of the lower regulator or brake, 20, with its adjusting-screw 40, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

WM. HENRY CLAYTON.
BARNETT LINTON EMBRY.

Witnesses:
S. T. WHITE,
A. J. CAMP.