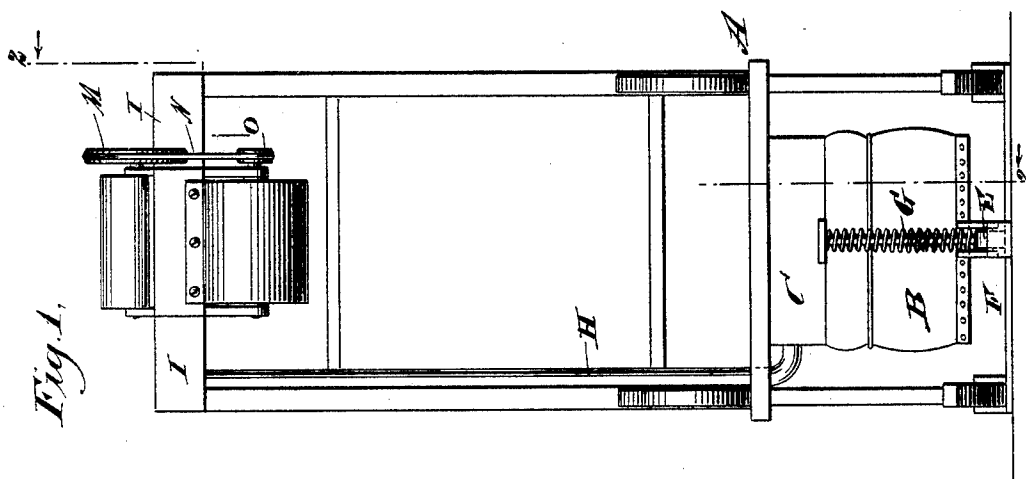
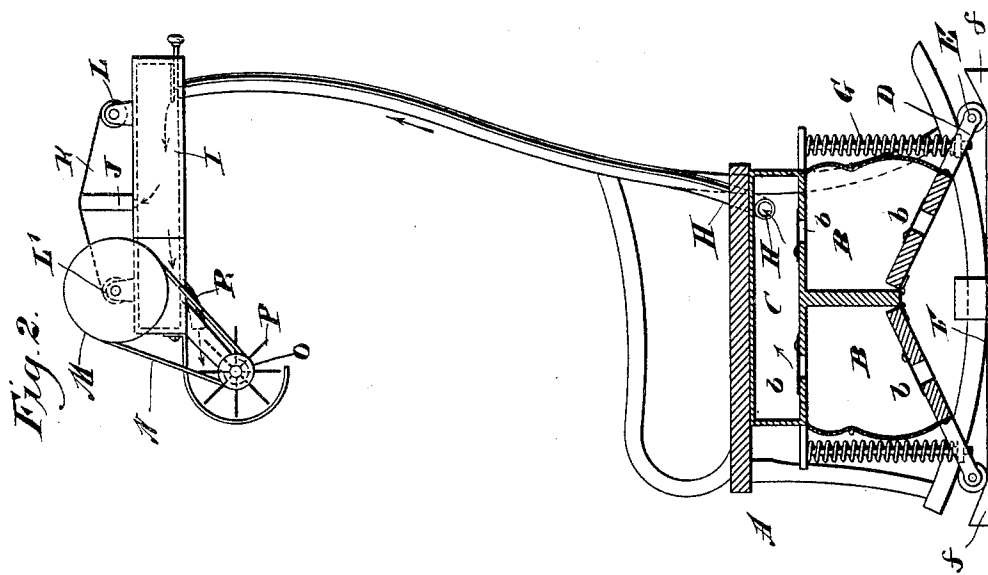


(No Model.)

C. J. MICHAELSON.
ROCKING CHAIR.

No. 586,859.

Patented July 20, 1897.



WITNESSES:

Edward Thorpe.
H. L. Reynolds.

INVENTOR
C. J. Michaelson.
BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES JOHN MICHAELSON, OF CHARLESTON, WEST VIRGINIA.

ROCKING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 586,859, dated July 20, 1897.

Application filed October 15, 1896. Serial No. 608,909. (No model.)

To all whom it may concern:

Be it known that I, CHARLES JOHN MICHAELSON, of Charleston, in the county of Kanawha and State of West Virginia, have invented a new and Improved Rocking-Chair, of which the following is a full, clear, and exact description.

My invention relates to an improvement in rocking-chairs by which the same is provided with an air-compressing device which will deliver air either for the purpose of cooling the occupant of the chair, for sounding a music-box, or any purpose to which compressed air may be applied.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a front elevation of my device; and Fig. 2 is a side elevation with the seat and lower portion in section, the same being taken on the line 2 2 of Fig. 1.

The chair A, shown herein, may be of any usual form of rocking-chair having a high back. Beneath the seat of the chair is placed an air-compressing device consisting of the two bellows B, provided with the usual valves *b* and discharging into a receiver C, placed immediately over the same. The lower portions of the bellows are extended to form arms D, which are provided at their lower ends with rollers E. These rollers run upon a bar F, which is fixed beneath the chair so that it will always remain in the same relative position. The ends of this bar F are provided with upward-inclined ends *f*, so placed that the motion of the chair will engage the rollers E therewith during the latter part of the rocking motion. This will raise the rollers E farther than would otherwise occur and so increase the amount of motion given to the bellows. The arms D are depressed by springs G.

The receiver C is connected by means of a tube H with a receiver I, fixed to the upper end of the chair-back. This receiver I has a hollow passage-way J extending across the top thereof and provided with reeds and adapted to be used as a music-box. The same is covered by a sheet of perforated paper K, wound upon rollers L and L'. This box will operate in the manner common to the usual wind music-box by the passage of the perforated

sheet over the openings to the reeds. One of the rollers L' is provided with a pulley M, and this is operated by means of a belt N from a pulley O upon a shaft which carries a fan P.

In one end of the receiver I an opening R is provided, discharging air upon the fan P and rotating the same. This by means of the mechanism described operates the rollers of the music-box. The music-box may, if desired, be detached from the chair and the blast of air directed upon the occupant for cooling purposes. This will naturally follow from the deflection of the air from the fan-casing. If desired, the nozzle or discharge-pipe R may be turned downward. The air may also be conveyed by means of tubes from the receiver C to any point where it is desired to use air for power or other purposes. The manner of using this air after compression is immaterial and has not been illustrated.

It is evident that any of the usual forms of reciprocating air-pumping mechanism may be substituted for the bellows, and it is also immaterial whether this is operated to produce a compression of air or a vacuum.

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

1. A rocking-chair having an air-pumping mechanism beneath its seat, operating-arms for the same pivoted to the chair, and a fore-and-aft bar resting upon the floor having upward inclines at its ends adapted to engage the lower ends of the operating-arms during the latter portion of each stroke, substantially as described.

2. A rocking-chair provided beneath the seat with air-compressing mechanism, operating-arms for the same, pivoted centrally and extending forwardly and rearwardly, rollers upon the outer ends of said arms, a bar for the rollers to travel upon, provided with inclines which engage the rollers during the latter part of the stroke of the arms, a tube leading from the air-compressing device to the upper end of the chair-back, a wind music-box fastened thereto, a fan operated by the escape of the air, and connections from the fan to the music-box, substantially as described.

3. A rocking-chair provided beneath the seat with air-pumping mechanism, operating-

arms for the same pivoted beneath and at the center of the chair and extending respectively to the front and rear therefrom, rollers upon the outer lower ends of said arms, a bar for
5 the rollers to travel upon provided with inclines which engage the rollers during the latter part of the stroke of the arms, springs adapted to return the arms against the action

of the inclines, and connections to the air-pumping mechanism intermediate the ends 10 of the arms, substantially as described.

CHARLES JOHN MICHAELSON.

Witnesses:

R. R. WELLS,
J. E. SCAGGS.