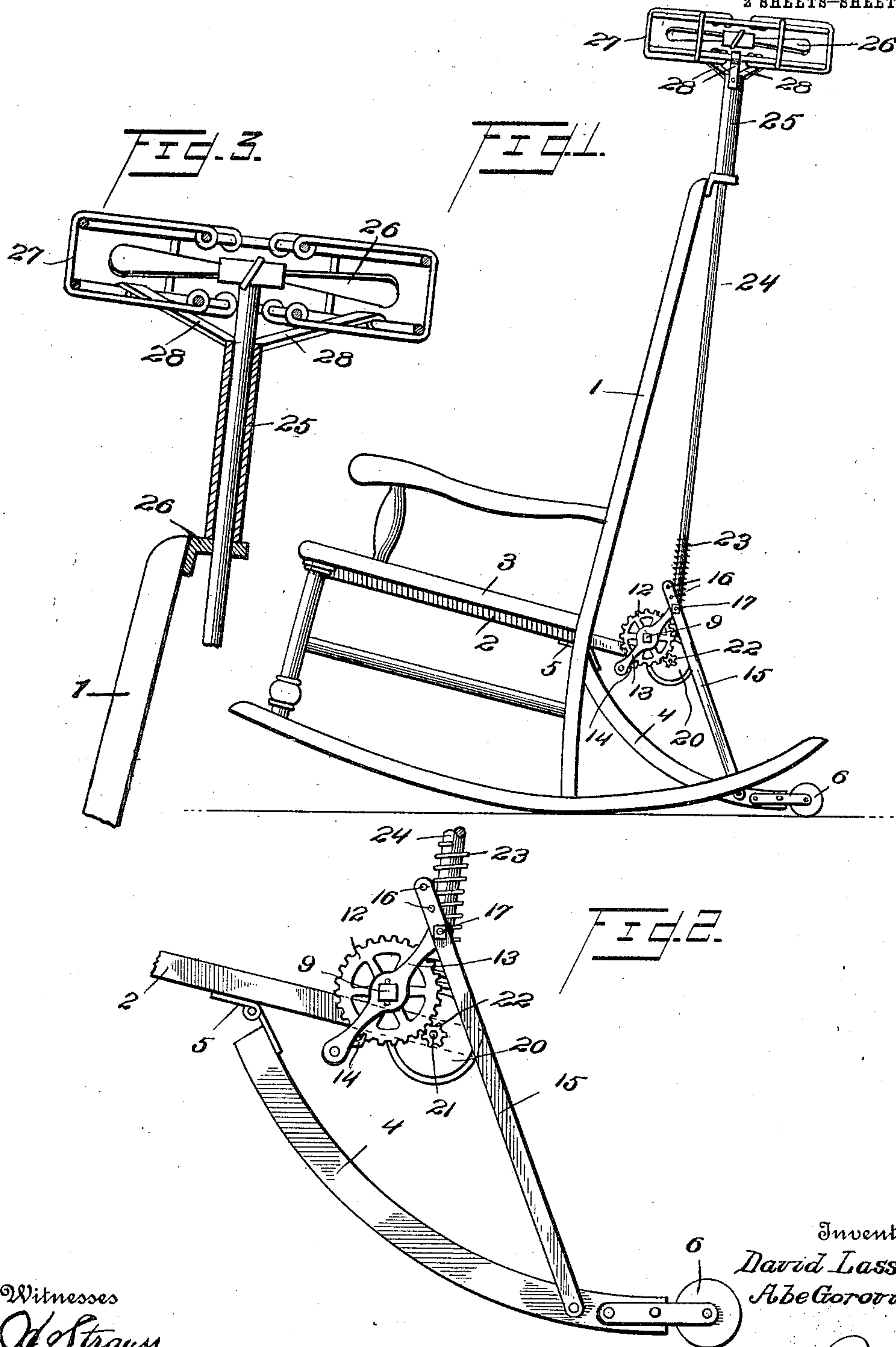


D. LASSON & A. GOROVITZ.
FAN ATTACHMENT FOR ROCKING CHAIRS.
APPLICATION FILED APR. 3, 1911.

998,783.

Patented July 25, 1911.

2 SHEETS—SHEET 1.



Witnesses
A. Strauss
R. H. Krenkel.

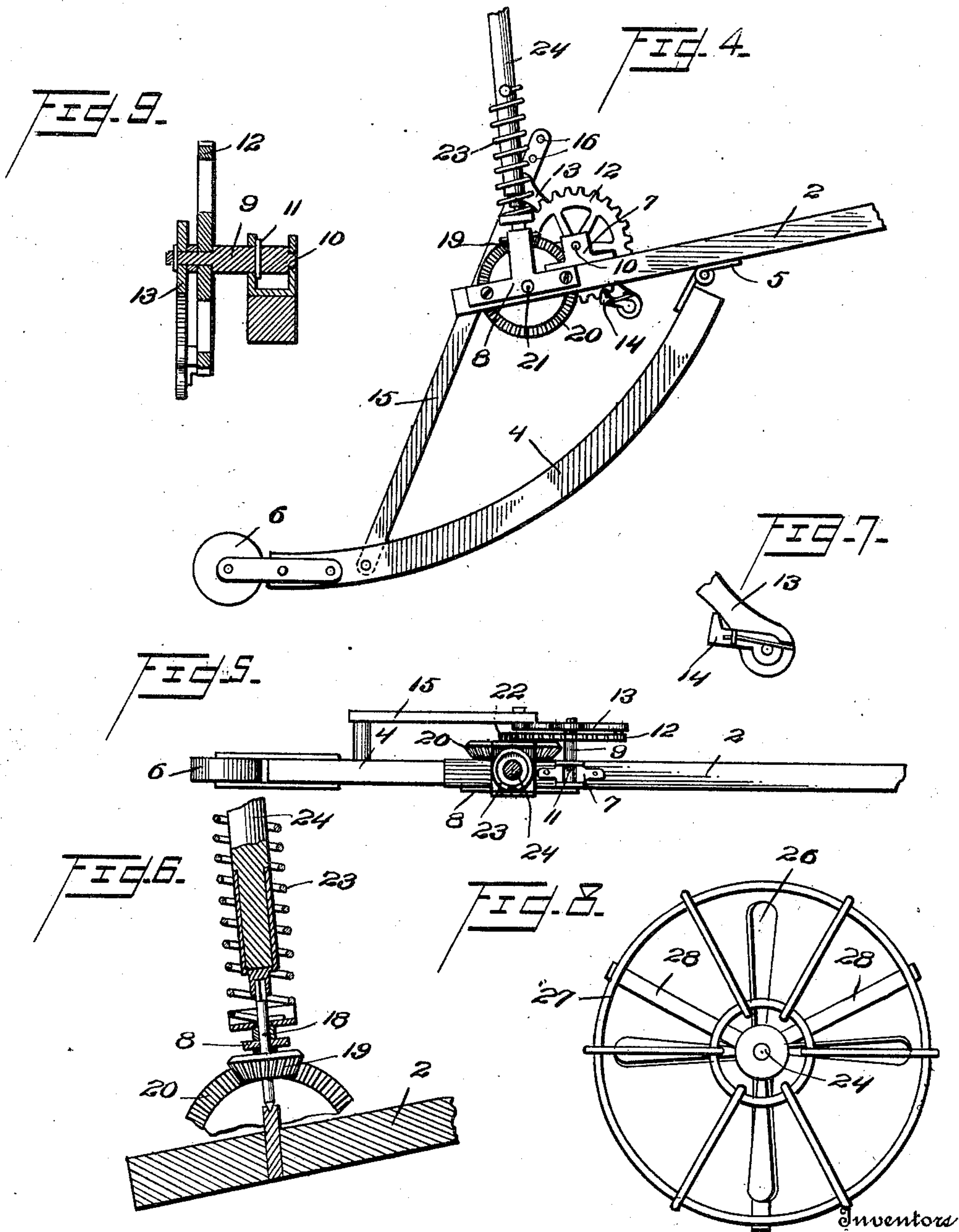
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UNITED STATES PATENT OFFICE.

DAVID LASSON AND ABE GOROVITZ, OF PHILADELPHIA, PENNSYLVANIA.

FAN ATTACHMENT FOR ROCKING-CHAIRS.

998,783.

Specification of Letters Patent.

Patented July 25, 1911.

Application filed April 3, 1911. Serial No. 618,524.

To all whom it may concern:

Be it known that we, DAVID LASSON, a citizen of the United States, and ABE GOROVITZ, a subject of the Czar of Russia, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Fan Attachments for Rocking-Chairs, of which the following is a specification.

Our invention relates to improvements in fan attachments for rocking chairs, the object of the invention being to provide improved means for supporting the fan on a rocking chair, and improved means for transmitting a rotary motion to said fan when the chair is rocked backwardly and forwardly.

A further object is to provide in the transmission mechanism a spiral spring which stores the energy and relieves the fan of shock due to sudden rocking action of the chair, and relieves the gearing of strains to which it would otherwise be subjected.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings: Figure 1, is a view in side elevation illustrating our improvements. Fig. 2, is a view in elevation on an enlarged scale illustrating the fan driving mechanism. Fig. 3, is an enlarged sectional view of the fan, its guard, and its mounting. Fig. 4, is a view similar to Fig. 2, but taken from the opposite side of the mechanism. Fig. 5, is a top plan view of Fig. 4, and Figs. 6, 7, 8, and 9, are views illustrating various details of construction.

1, represents an ordinary rocking chair to which a bar 2 is rigidly secured. This bar 2 is secured to the under face of the chair seat 3, and extends rearwardly beyond the chair as shown.

A rocker arm 4 is connected to bar 2 by means of the hinge 5, and at its rear end is provided with a roller 6 to run on the floor, reducing friction to a minimum, and it will be understood that as the chair is rocked, this arm 4 will be oscillated as its roller 6 moves backwardly and forwardly.

On bar 2, two brackets 7 and 8 are secured. Bracket 7 is of general bifurcated form as shown in Fig. 9, and provides rotary mounting for an arbor 9. This arbor 9 has

a reduced end 10, which is mounted in an opening in bracket 7, and a cross pin 11 prevents longitudinal movement of the arbor in the bracket. On this arbor 9 a toothed wheel 12 is mounted to turn, and a lever 13 is fixed between its ends on the outer end of said arbor. The means shown for fixing the lever to the arbor consists of making the end of the arbor angular and providing an angular opening in the lever, but other means may be provided as desired. One end of this lever is provided with a spring-pressed pawl 14, which engages the teeth of wheel 12, and the other end of the lever is connected by a link 15, with rocker arm 4. A plurality of openings 16 are provided in the link 15 for the reception in any of them of the bolt 17, which connects the link with the lever, whereby an adjustment may be had in accordance with the size of the chair to which our improvements are attached.

Bracket 8 above referred to provides a bearing for a short vertical shaft 18, on the lower end of which, a beveled pinion 19 is secured, and meshes with a beveled gear 20 mounted on a shaft 21 supported in bar 2 and bracket 8. On this shaft 21, a pinion 22 is secured, and meshes with the toothed wheel 12 above referred to. We call this wheel 12 a toothed wheel because it performs the functions of a spur gear and a ratchet wheel.

A coiled spring 23 is secured to shaft 18, and is positioned around and secured to a vertical shaft 24. This spring 23 therefore acts as a connecting medium between shaft 18 and shaft 24, and the latter constitutes a fan shaft which is supported in a bearing sleeve 25, located above a bracket 26, and said bracket 26 secured to the back of the chair 1.

On the upper end of the shaft 24, a rotary fan 26 is secured, and is mounted inside of a guard 27, which latter is connected by arms 28 with sleeve 25. The guard 27 is quite essential, because if the fan should strike an object or wall, it would not only disfigure the object or wall, but would injure the fan, and the guard also serves to protect the persons in the room.

The operation is as follows: The ordinary movement of the rocking chair causes the arm 4 to oscillate, and through the medium of link 15, lever 13 is oscillated. This movement of lever 13 through the medium of pawl 14, transmits an intermittent rotary

movement to toothed wheel 12, and the latter through the medium of pinion 22, gear 20, pinion 19, shaft 18, spring 23, and shaft 24, transmits a rotary motion to the fan 26, which blows the air downwardly upon the occupant of the chair.

The coiled spring 23 acts as a connecting medium in the power transmission, and serves to relieve the fan shaft of sudden shocks and jars without any loss of energy, because such energy is stored in the spring, and is imparted to the shaft and fan.

Various slight changes might be made in the general form and arrangement of parts described without departing from our invention, and hence we do not limit ourselves to the precise details set forth, but consider ourselves at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. A fan attachment for rocking chairs, comprising a bar adapted to be secured to the bottom of a chair and project rearwardly therefrom, of a rocking arm hinged to said bar, a roller on the free end of said arm adapted to contact with the floor, a horizontal shaft supported on said bar, a toothed wheel mounted to turn on said shaft, a lever secured to the shaft, a link connecting one end of said lever with said rocking arm, a ratchet pawl on the other end of said lever engaging said toothed wheel, a short shaft, means for transmitting motion from said toothed wheel to said shaft, a fan shaft, a fan on said shaft, and a coiled spring positioned around the fan shaft, secured at one end to the fan shaft, and at its other end to the short shaft, substantially as described.

2. The combination with a rocking chair, and a rearwardly projecting bar secured to said chair, of a rocking arm, a hinge connecting said rocking arm to said bar, a roller

on the free end of said arm contacting with the floor, a horizontal shaft supported on said bar, a toothed wheel mounted to turn on said shaft, a lever secured to the shaft, a link connecting one end of said lever with said rocker arm, a ratchet pawl on the other end of said lever engaging said toothed wheel, a short vertical shaft supported on said bar, a train of gearing connecting said tooth wheel with said short shaft, a fan shaft, a fan on said shaft, and a coiled spring positioned around the fan shaft and connecting the same with said short shaft, substantially as described.

3. The combination with a rocking chair, and a rearwardly projecting bar secured to said chair, of a rocking arm, a hinge connecting said rocking arm to said bar, a roller on the free end of said arm contacting with the floor, a horizontal shaft supported on said bar, a toothed wheel mounted to turn on said shaft, a lever secured to the shaft, a link connecting one end of said lever with said rocker arm, a ratchet pawl on the other end of said lever engaging said toothed wheel, a short vertical shaft supported on said bar, a train of gearing connecting said tooth wheel with said short shaft, a fan shaft, a fan on said shaft, a coiled spring positioned around the fan shaft and connecting the same with said short shaft, a bracket secured to said shaft, a sleeve above said bracket constituting a bearing sleeve for said fan shaft, a fan guard around said fan, and arms connecting said guard with said sleeve, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

DAVID LASSON.
ABE GOROVITZ.

Witnesses:

LOUIS LASSON,
CHAS. E. POTTS.