

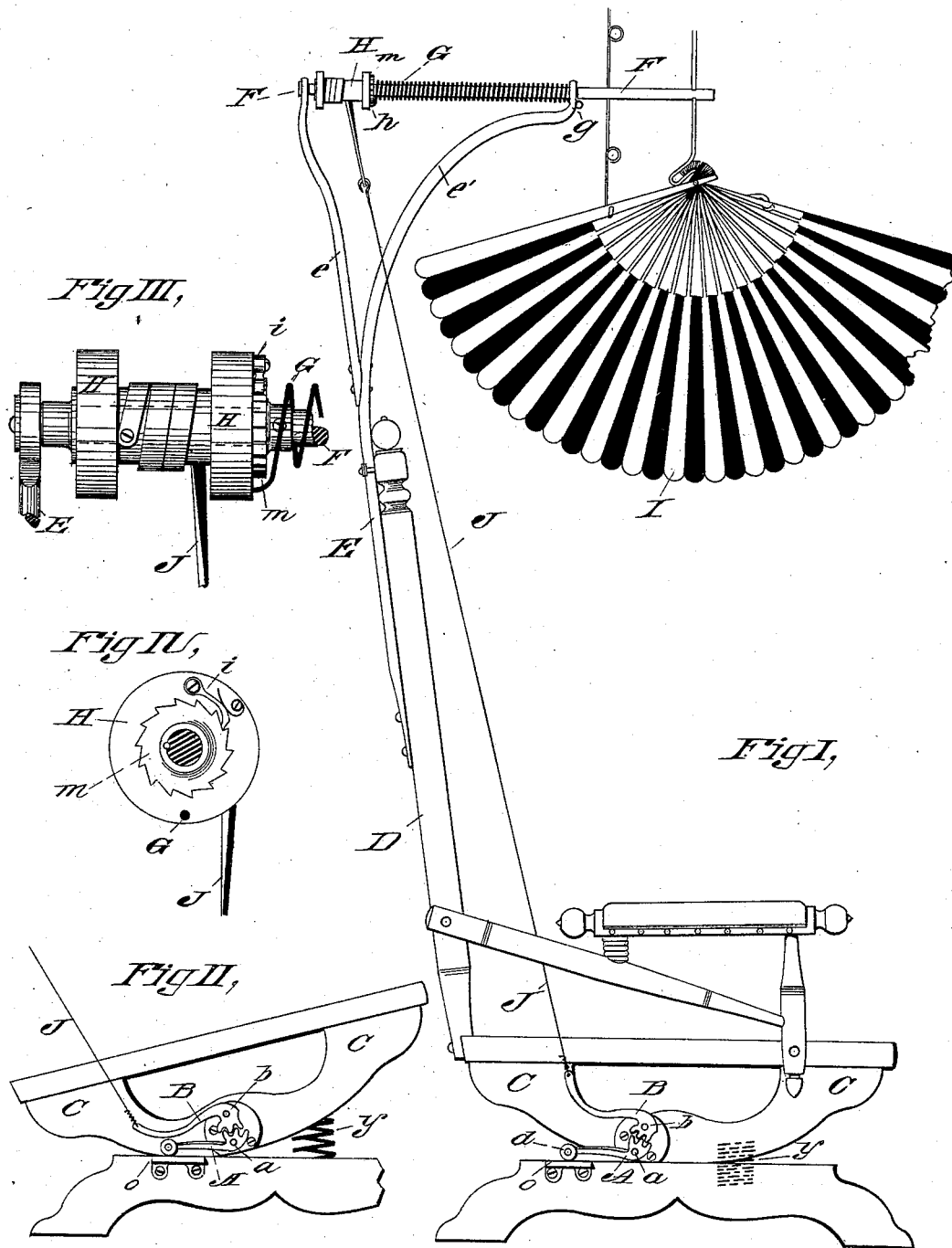
(No Model.)

M. MARCOUX.

AUTOMATIC FAN ATTACHMENT FOR ROCKING CHAIRS.

No. 381,897.

Patented Apr. 24, 1888.



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UNITED STATES PATENT OFFICE.

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AUTOMATIC FAN ATTACHMENT FOR ROCKING-CHAIRS.

SPECIFICATION forming part of Letters Patent No. 381,897, dated April 24, 1888.

Application filed July 15, 1887. Serial No. 244,364. (No model.)

To all whom it may concern:

Be it known that I, MOÏSE MARCOUX, a subject of the Queen of Great Britain, residing at Springfield, Hampden county, State of Massachusetts, have invented a new and useful Improved Automatic Fan Attachment for Rocking-Chairs, of which the following is a specification.

My improvements relate to mechanism combined with a fan and rocking-chair to cause the movement of the chair in use to operate the fan; and the invention consists in the combination and construction, as hereinafter described, and more particularly pointed out in the claims.

My invention is fully illustrated in the accompanying drawings, in which—

Figure I is a side elevation of a rocking-chair having a fan and my improved mechanism combined therewith. Fig. II is a side elevation of a portion of a rocking-chair and of the mechanism combined therewith, showing the rocker at one end of its oscillation. Fig. III is a detail, (full size,) and Fig. IV is the same in a different position.

A B are two levers hung upon the side of the rocker C at *a b* to have their shorter arms in operative contact to cause their longer arms to swing to and from each other, and so that the swinging of one longer arm will simultaneously cause the swinging of the other. In the drawings segmental racks upon the shorter lever-arms are shown geared together to produce this effect; but without a departure from the spirit of my invention rocker-arms bearing against each other or a link-and-pin connection may be used with the same result. The lever A has its longer arm intersect and project beyond the curved edge of the rocker C, and is provided with a roller, *d*, to lessen the friction upon the floor or other rocker-bearing. The other lever, B, has its longer arm extend upward upon the side of rocker C.

Secured to the back D of the chair, so as to extend above it, is a bracket or frame, E, affording journal-bearings to the fan-shaft F and a fixed point of attachment for the spring G.

The shaft F, to which the fan or fans are secured, is journaled in the arms *e e'* of frame E, and has upon it between said journal-bearings a spool, H, and the coil-spring G. The coil-

spring, fast at one end, *g*, to the frame E, has its other end fast at *h* to the spool H.

The fan I shows the position of all fans to an occupant of the chair and to the fan-shaft F.

J is a cord or other connection from the longer arm of lever B to the spool H.

The normal position of all of the parts being as shown in Fig. I, with the opposing longer arms of levers A B distended, with the roller *d* resting upon the plane upon which the rocker C oscillates, and one end of cord J wound upon spool H by the action of spring G bearing from the fixed point *g* upon the spool, the movement of rocker C to the position seen in Fig. II by forcing up the roller end of lever A depresses the longer arm of lever B, rotates the spool H, and with it the fan-shaft F, fast thereto, and rotates said spool and fan-shaft against the spring G. Upon the return movement of rocker C to complete an oscillation, the spring G acts to rewind the spool and redistend the arms of levers A B to hold the roller *d* in contact with its bearing-surface; and if the spool H is permanently fast upon shaft F it will be seen that the action of rocker C upon shaft F in one direction and the action thereupon of spring G in the reverse direction will have imparted an oscillation to fan I corresponding to each oscillation of rocker C.

To cause the oscillation of rocker C to impart a continuous rotation to shaft F, by means of which several fans may be radially arranged upon said shaft, and by means of which smoke may be carried away from a smoker occupying the chair, I combine the spool H and shaft F by means of a pawl, *i*, and ratchet *m*, respectively fast to each, so that the spool and shaft are fast as the cord is unwound from the spool to rotate the shaft, but so that the spool rotates loosely upon shaft F when actuated by the spring to rewind the cord, the result of which is that the fans with shaft F are intermittently rotated.

In the drawings the pawl *i* is shown hinged to one side of the spool H, while the ratchet *m* is fast upon the shaft F.

In the drawings the form of rocking-chair shown is that in which the rocker in one section rests and moves upon another section, the two being held by a spring, *y*, and a bear-

ing-surface, *o*, is secured to the lower section for the roller *d* to rest upon. When the levers A B are secured to the rocker resting directly upon a floor, the roller *d* rests upon the floor also.

Now, having described my invention, what I claim is—

1. The within-described automatic fan attachment for rocking chairs, consisting of a rocker, C, two levers, A B, hinged to the rocker with their shorter arms operatively connected, as shown and described, to cause their longer arms to move in opposition and arranged to have the longer arm of one lever project beyond the rocker-edge and rest upon the rocker bearing-surface, and the longer arm of the other free to have a cord attached thereto, a fan-shaft, F, supported and journaled in a frame or bracket, E, raised from and secured to the chair, a spool, H, upon shaft F, a spring, G, fast at one end to bearing E and at its other to spool H, a cord, J, having one end wound upon the spool and the other fast to the free lever end, and a fan, I, secured to shaft F, all combined and arranged, substantially as shown and described, to cause an oscillation of the chair-rocker to impart an oscillation to the fan.

2. The within-described automatic fan attachment for rocking-chairs, consisting of a rocker, C, two levers, A B, hinged to the side thereof to have their shorter arms engage to cause their longer arms to move to and from each other and arranged to have one lever, A, project beyond the edge of the rocker to rest upon the rocker bearing-surface, and the one B to extend in a position to have a cord from above attached to its free end, a fan-shaft, F, supported and journaled in a frame or bracket, E, raised above and secured to the chair, a spool, H, journaled upon shaft F, a coil-spring, G, upon shaft F, fast at one end to bearing E and having its other end secured to spool H, a pawl, *i*, and ratchet *m*, respectively upon the spool H and shaft F and engaging, as shown and described, a cord, J, wound upon spool H and connecting it with lever B, and a fan, I, upon shaft F, all arranged substantially as shown, and operating to cause an oscillation of the rocker to rotate the fan-shaft.

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Witnesses:

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