

(No Model.)

A. NETTMANN.
FAN ATTACHMENT.

No. 465,284.

Patented Dec. 15, 1891.

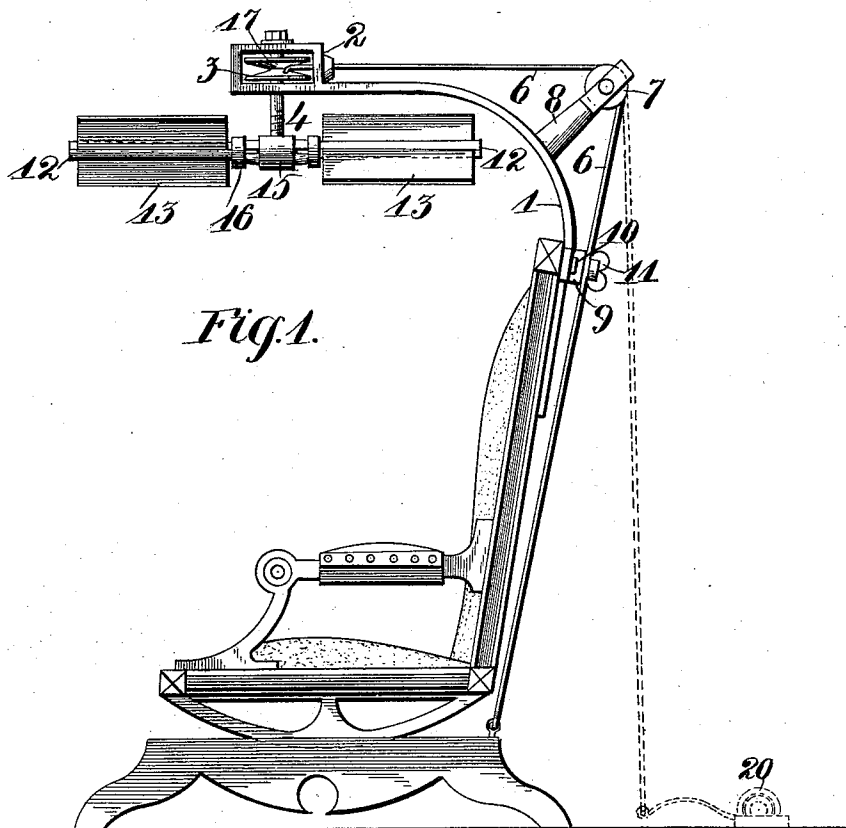


Fig. 1.

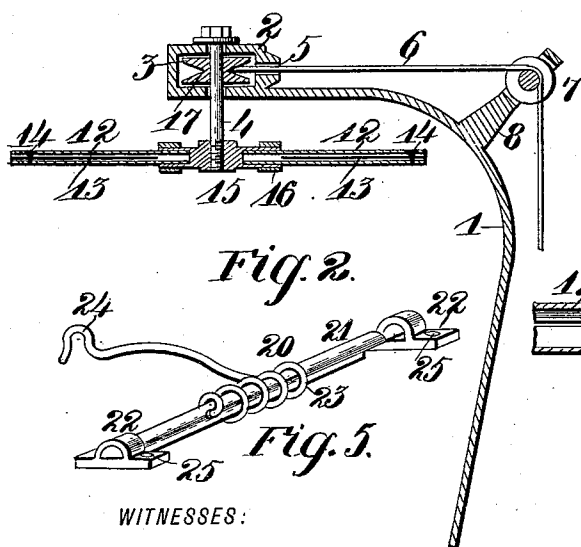


Fig. 2.

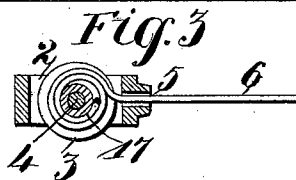


Fig. 3.

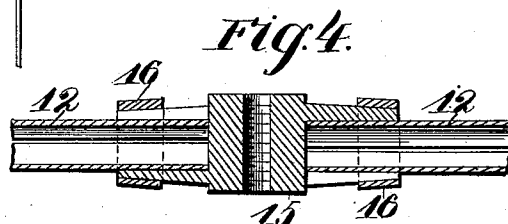


Fig. 4.

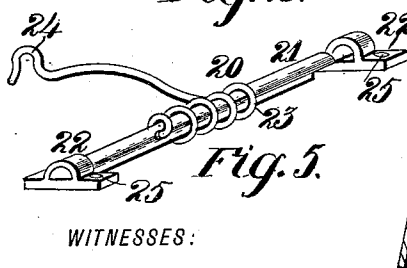


Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ALBRECHT NETTMANN, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO
CHRIST WITTERSHACEN, OF SAME PLACE.

FAN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 465,284, dated December 15, 1891.

Application filed December 13, 1890. Serial No. 374,566. (No model.)

To all whom it may concern:

Be it known that I, ALBRECHT NETTMANN, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Fan Attachments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in fan attachments for rocking chairs, &c.; and it consists in the novel arrangements and combination of parts, as will be more fully described, and designated in the claims.

In the drawings, Figure 1 is a side elevation of my invention as applied to a stationary rocking-chair. Fig. 2 is a longitudinal mid-section of the same. Fig. 3 is a transverse section of the spool which I employ in carrying out my invention, and also the framework in which the same is mounted. Fig. 4 is an enlarged longitudinal section of a split wooden hub which I employ in carrying out my invention. Fig. 5 is a perspective view of a stationary object, with one of the cleats detached, which I employ to attach an operating-cord thereto.

The object of my invention is to construct a device for generating a breeze to be applied to the back of a rocking-chair and so arranged as to be automatically operated by the rocking motion of the same.

Referring to the drawings, 1 represents a curved supporting-arm, which terminates at its front end in a square eyelet 2, in which the spool 3, which I employ in carrying out my invention, is rigidly mounted on a vertically-operating shaft 4. Said shaft 4 is pivotally secured in suitable perforations made through the bent portions of arm 1, and also on said vertical shaft 4 spool 3 is rigidly secured, as above stated. Said spool is provided with a deep groove, said groove diverging, approximately, from the core or axis of the same. The vertical axis 3 is also provided at its lower end with screw-threads for the purposes hereinafter described. The frame-arm, which forms the square eyelet in which the spool is mounted, is provided with a perforation 5, through which the operating-cord 6 is adapted to pass and is free to move. Cord 6 is at-

tached to the core 17 of said spool 3, passes back through perforations 5 and over pulley 7, which pulley is mounted in a standard 8, secured to arm 1. The frame in which pulley 7 is mounted is entirely closed, so that the cord 6 cannot pass off in its functional operation. The cord passes back over this pulley, as before stated, and is attached to the base of the stationary rocking-chair, or, when not used on a stationary rocking-chair, it can be attached to any stationary object 20, as shown in dotted lines in Fig. 1. Said stationary object 20 is composed, essentially, of a rod 21 and cleats 22 for securing said rod to the floor. The ends of said rod are semicircular and are adapted to fit in suitable perforations in the cleats.

23 indicates a spiral spring, the coiled portion of which encircles rod 20, and one end of said spring passes through suitable perforations made in the rod. The other end of said spring extends freely, forming an arm which terminates in a hook 24, to which cord 6 is attached, whereby a yielding support for cord 6 is effected.

25 indicates screws by which cleats 22 are secured to the floor.

Arm 1 is secured to the back of the rocking-chair by means of a cleat 9, firmly secured to said back by means of screws 10, which pass through said cleats and into back. Said cleat is adapted to receive a thumb-screw 11, by which arm 1 is held in the desired adjustment.

12 indicates arms on which fans 13 are mounted. Said arms are longitudinally split, and between the sections thereof fans 13 are slipped, and held in said interposed position between the sections thereof by means of rivets 14.

15 indicates a wooden split hub, which is slipped over arm 12 and is adapted to be screwed on the lower end of vertical shaft 4. Said hub is provided with metallic bands or ferrules 16, adapted to pass over and contract them and make them bind upon said arm, thereby holding said hub rigidly upon said arm.

Fans 13 are mounted upon arm 12, as hereinbefore described, at a suitable angle—say

forty-five degrees—relative to each other. Instead of using the fans, as shown and described, ordinary palm-leaves may be used in lieu thereof, which perform the same function of generating the breeze.

Having fully described my invention, I will now proceed to describe its application and use.

The parts are made substantially as herein described, and put together in a suitable mechanical manner for the purpose intended.

The device is attached to the back of a stationary rocking-chair, or it may be used in connection with any other chair, as desired by the operator, in which case the operation, of course, will vary. One end of cord 6 is attached to the core of the spool 17, as hereinbefore stated, and the other end passes back and is attached to the base of a stationary rocking-chair or any other stationary object. To start the fans in their functional operation, the operator should move them, and consequently move the vertically-operating shaft, so that cord 6 assumes a partially tangential position relative to the core 17 of the spool. By this means a leverage is formed, the extent of which is the radius of the axis or core. When the chair is rocked backward or forward, cord 6 is stretched in a taut condition and spool 3 will commence a rotary motion. The initiatory force imparted to the spool by the first rocking of the chair imparts to said spool, and consequently to the fans, an accelerated momentum, which will carry the spool around several revolutions, and consequently wrap the cord 6 on the core thereof. An opposite motion of the chair will unwind said cord and impart to the fans a motion in the opposite direction, or a reversed rotary motion. A successive and continuous forward and backward motion of the chair will impart to the fans a similar motion, and thus generate the desired breeze.

I am aware that prior to my invention fans somewhat similar to that shown herein have been used; but such fans have been provided with springs for causing their rotation to be

continued after the cord has been unwound from the spool, and I do not therefore desire to claim such a construction; but

What I do claim is—

1. In a fan attachment for rocking-chairs, an arm 1, secured to the back thereof, a cleat 9 for securing said arm to said chair, a standard 8, supporting a pulley 7, a spool 3, mounted in said arm, a vertical shaft 4, revolubly mounted in said arm, a longitudinally-slotted horizontal arm 12, provided with a wooden split hub 15, fans 13, and a cord 6 for operating said spool, and consequently the fans, substantially as set forth.

2. In a fan attachment for rocking-chairs, a stationary support 20, to which the fan-operating cord is attached, the said support consisting of a rod 21, provided with semicircular ends, cleats 22, adapted to receive said semicircular ends for holding the same to the floor, and a spiral spring 23, provided with an arm terminating in a hook 24, encircling said rod, substantially as set forth.

3. In a fan attachment for rocking-chairs, the combination, with an adjustable supporting-arm 1, of a spool 3, having a peripheral groove 17 carried thereby, a hub 15, secured to the said spool and having split sockets thereon, split arms 12, contained in the said sockets, ferrules 16, compressing the sockets upon the said arms, fan-blades contained in the said arms, a standard 8, projecting rearwardly from the said supporting-arm and carrying a pulley 7, a cord secured to the said spool and passing over the said pulley, the said cord being the sole source of motion of the said spool, a rod 20, having angular ends 21, cleats 22, secured to a fixed support and engaging the ends of the said rod, and a coiled spring 23, encircling the said rod 20 and connected to the said cord, as described.

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

ALBRECHT NETTMANN.

Witnesses:

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