

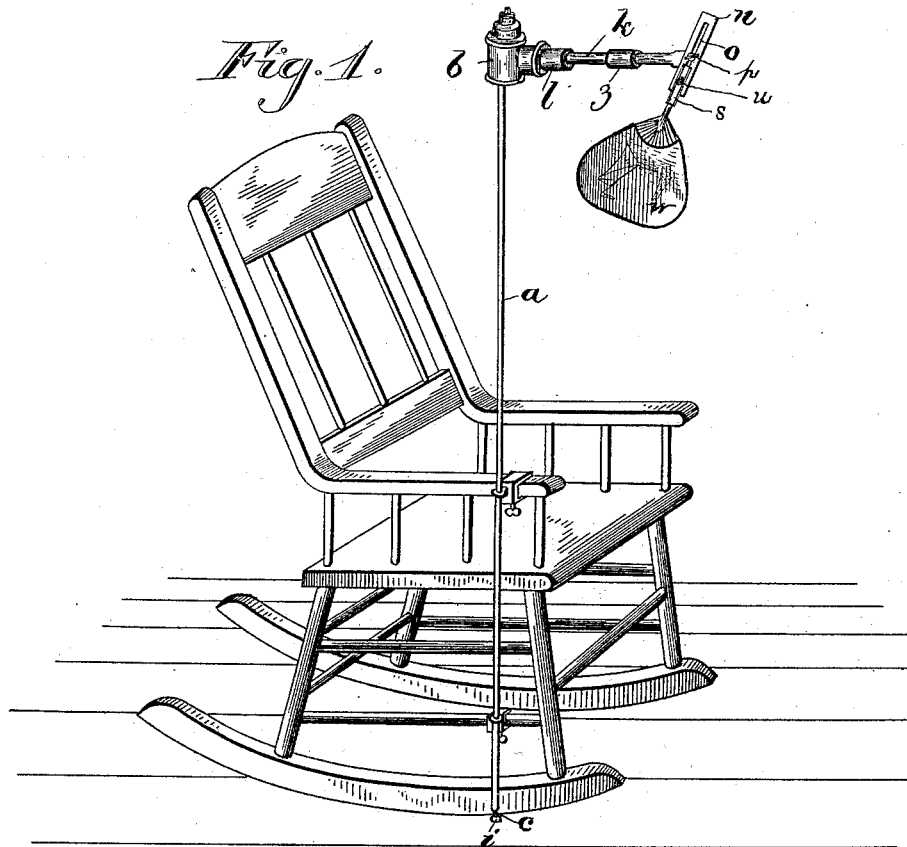
(No Model.)

2 Sheets—Sheet 1.

R. TAGGART.
FAN ATTACHMENT FOR CHAIRS, &c.

No. 421,330.

Patented Feb. 11, 1890.



Witnesses:
J. B. McGinn
H. E. Peck

Inventor:
Robert Taggart
per *O. E. Duff*
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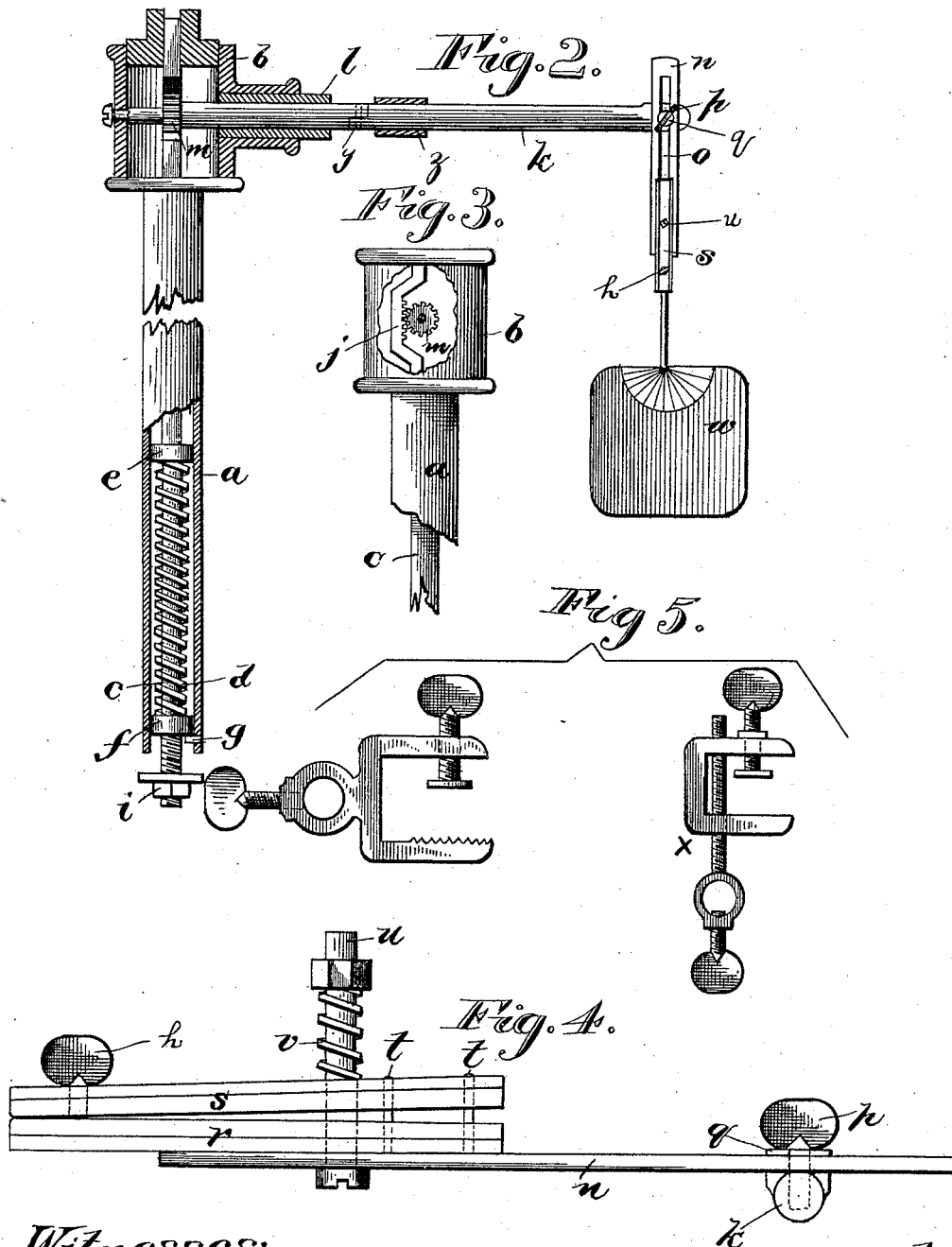
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UNITED STATES PATENT OFFICE.

ROBERT TAGGART, OF TERRE HAUTE, INDIANA.

FAN ATTACHMENT FOR CHAIRS, &c.

SPECIFICATION forming part of Letters Patent No. 421,330, dated February 11, 1890.

Application filed September 6, 1888. Serial No. 284,733. (No model.)

To all whom it may concern:

Be it known that I, ROBERT TAGGART, of Terre Haute, in the county of Vigo and State of Indiana, have invented certain new and useful Improvements in Fan Attachments for Chairs, &c.; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 the letters of reference marked thereon, which form part of this specification.

My invention relates to an improved attachment for chairs, rockers, &c.

The object of the invention is to produce an improved article of the class mentioned which can be readily and easily attached to or detached from a chair, whether a rocking-chair or not, or can be applied to a cradle, and which shall be simple in construction and effective in operation, and composed of a minimum number of strong and durable parts.

The invention consists in certain novel features of construction and combinations of parts, more fully described hereinafter, and particularly pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of a chair with my invention attached. Fig. 2 is a detail elevation of the device, portions being broken away. Fig. 3 is a detail view of the upper portion of the casing, in which the operating-rod works, the casing being partially broken away to show the gearing connecting the fan-shaft and reciprocating operating-rod. Fig. 4 is an elevation of a portion of the fan-holder, showing the clamp by which it holds the fan. Fig. 5 are detail views of clamps, by which the device is rigidly and detachably secured to a chair.

As shown, the device comprises a reciprocating spring-actuated rod provided with a suitable casing adapted to be clamped to a chair, so that the rod will project below the same, a fan or rock-shaft connected with and rocked by the reciprocating rod, and a fan-holder adjustably secured to the fan-shaft and provided with a clamp to hold a fan.

In the drawings, the reference-letter *a* indicates a suitable supporting and inclosing tube

or casing, preferably composed of a length or section of gas-pipe open at its lower end and provided upon its upper end with an enlarged portion *b*, provided with a side opening, or, preferably, a T section or coupling. A rod *c* extends longitudinally through the casing and T and projects a suitable distance below the lower end of the same, while its upper end is confined and reciprocates in a suitable slot in the upper closed end of the T. A coiled spring *d* embraces the reciprocating rod *c* and at its upper end bears against a stationary stop *e*, while its lower end bears against a stop *f*, secured to and moving with the rod *c*. A stop *g* extends from the casing *a* to engage stop *f* and limit the downward movement of the same.

The lower end of the rod *c* which projects below the casing is provided with a nut *i*, if desired. It will be observed that the spring is constantly tending to force the rod *c* downwardly, with its end projecting its full extent out of and below the casing.

The upper portion of the rod *c* in the upper portion or T of the casing is provided with a lateral bend, as shown, having a rack or teeth *j* upon its inner longitudinal face. A fan-shaft *k* extends transversely through and is journaled at one end in the upper portion or T of the casing, and is also journaled or rotates in bushing *l*, placed in the lateral opening of the T. The inner end of the shaft extends through the bend of rod *c*, and a pinion *m* is rigidly mounted on the shaft and meshes with rack *j*. The shaft *k* extends laterally a suitable distance from the rod *c*, at right angles to the same, and upon its outer free end is provided with an adjustable fan-holder consisting, preferably, of a flat bar *n*, of metal or other material, provided with a longitudinal slot *o*, whereby it is adjustably secured to the shaft by means of a clamp comprising a thumb-screw *p*, extending through the slot and screwing into the fan-shaft, and provided with a washer *q*, between the head of the screw and the outer face of the bar *n*. Upon its free end the bar *n* of the fan-holder is provided with a clamp consisting of a rigid jaw *r* and a movable spring-jaw *s*, movably secured to the same by means of pins *t t* and a bolt *u*, extending through the arm *n*, rigid

jaw, and movable jaw, and provided upon one end with a nut and a coiled spring *v*, interposed between said nut and the outer face of the movable jaw, whereby the same is constantly and yieldingly held bearing against the rigid jaw, as clearly shown. Either jaw of the clamp is provided with a set-screw *h*, extending through the same to more securely hold the fan *w* in the clamp.

Two forms of clamp by which the device can be secured to a chair are shown in Fig. 5, and consist of rigid jaws to receive a portion of the chair and a set-screw to clamp the same in the jaws, and the rigid jaws are provided with a ring or circular aperture to receive the casing *a*, which is clamped in the same by a set-screw. If desired, the ring to receive the casing *a* can be mounted upon a screw working through the rigid jaws, as shown at *x* in Fig. 5. By this means the clamp will admit of more varied adjustment.

The shaft can be provided with a joint *y* to allow the parts to swing in one plane, and thus allow the fan to be thrown up and out of the way, so as not to inconvenience a person getting in or out of the chair. A sliding sleeve *z* is located in the shaft to slip over the joint *y* and hold the shaft rigid, when desired.

The device is secured to a chair, &c., by the clamp shown in Fig. 5, with the lower end of the rod *c* projecting a suitable distance below the bottom of the rocker or a leg of the chair, and it is evident that by rocking when the chair comes forward the end of the rod *c* strikes the floor, forcing the rod up into the casing against the tension of the spring and rocking the fan-shaft and fan in one direction, and then when the chair moves back the spring forces the reciprocating rod to its normal position, rocking the fan and shaft in the opposite direction. It is a very quick and prompt motion, and the device is exceedingly neat and tasty in appearance, and there is not a complication of parts to get out of order.

Having thus fully described my invention,

what I claim, and desire to secure by Letters Patent, is—

1. In a fan attachment for chairs, the combination, with a rock-shaft, a standard to support the same, and means, substantially as described, to operate the same, of a laterally-extending longitudinal slotted plate or bar adjustably secured to the free end of said shaft, a clamp securing said plate to the shaft, whereby the bar can be adjusted to and held in any inclination or longitudinal adjustment, and a fan-clamp on the lower free end of said plate, composed of a jaw rigidly secured to the plate, and a movable jaw loosely secured to the same and provided with a spring to hold it in engagement with the rigid jaw, substantially as described.

2. A fan attachment for chairs, consisting of a tubular casing provided with adjustable clamps to secure it in position extending above a chair, a hollow head on the upper end of the casing, having a guide-opening in its top, and a side bearing-opening provided with a bushing, a reciprocable operating-rod extending below the casing and at its upper end into said guide-opening, a spring to force the rod down, a lateral bend in the rod opposite the bearing-opening of said head, provided with a rack on its inner side, a horizontal rock-shaft at one end, extending through said head and lateral bend and journaled in one wall of the head and in said bushing, a gear on the shaft meshing with said rack, said shaft being formed in two sections hinged together, for the purpose set forth, and provided with a sliding sleeve to hold the shaft rigid, and a downwardly-extending fan-holder on the free end of the shaft, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ROBERT TAGGART.

Witnesses:

G. M. STEWART,
FRANK HOVEY.