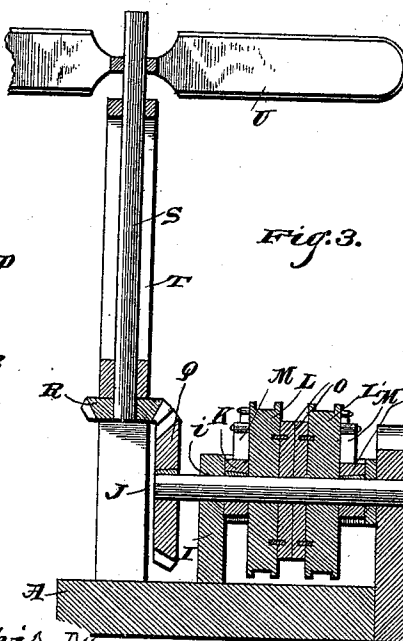
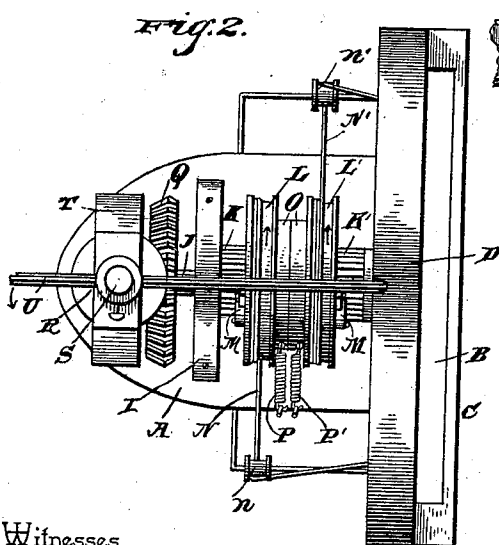
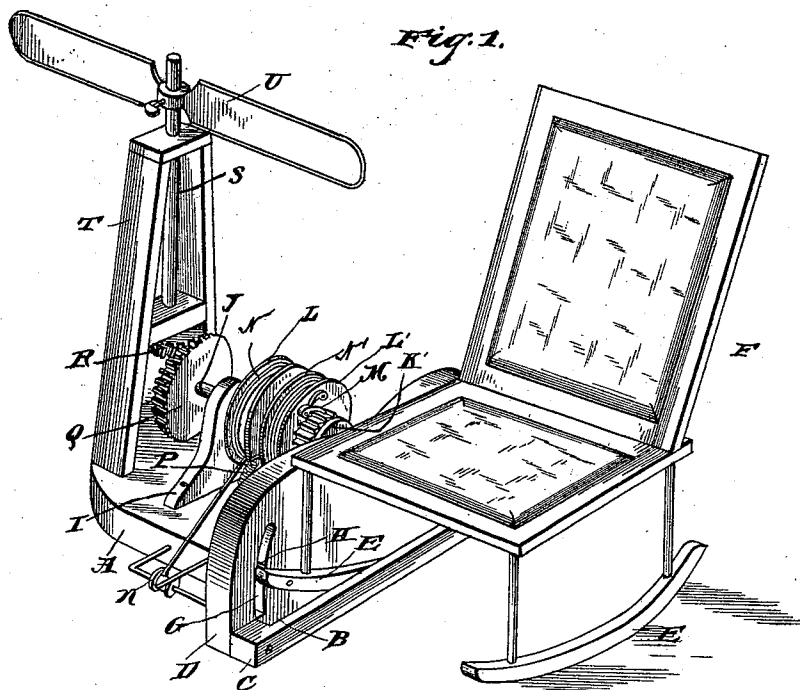


(No Model.)

M. M. RUTH.
ROCKING CHAIR FAN ATTACHMENT.

No. 498,365.

Patented May 30, 1893.



Witnesses

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D. S. Oat

By his Attorneys,

Martin M. Ruth,

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UNITED STATES PATENT OFFICE.

MARTIN M. RUTH, OF PHILADELPHIA, PENNSYLVANIA.

ROCKING-CHAIR FAN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 498,365, dated May 30, 1893.

Application filed September 24, 1892. Serial No. 446,801. (No model.)

To all whom it may concern:

Be it known that I, MARTIN M. RUTH, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Rocking-Chair Fan Attachment, of which the following is a specification.

My invention relates to a fan attachment for rocking chairs, the objects in view being to provide an attachment capable of universal application, which may be readily connected and disconnected, and which is simple in construction, may be cheaply manufactured, and is effective in operation.

Further objects and advantages of my invention will appear in the following description and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view of my attachment applied in the operative position to a rocking chair. Fig. 2 is a plan view of the attachment, detached. Fig. 3 is a vertical longitudinal sectional view of the same.

A represents the base, at one end of which is arranged a transverse guide-slot, B, formed between the end of the base and a removable guide-bar, C. Adjacent to this guide-slot is a vertical plate, D, provided at points corresponding in position to the ends of the rocker, E, of the chair, F, with arc-shaped slots, G G, said slots being designed to receive lateral pins, H H, carried by the ends of the said rocker.

A standard, I, arranged upon the base at a suitable distance from the transverse plate, D, is provided with a bearing *i*, aligned with a similar bearing, *d*, in the plate, and in said bearings is mounted the shaft, J, carrying the fixed ratchet-wheels, K and K', between which are arranged the loose-drums, L L', carrying pawls, M, to engage the ratchet-wheels, respectively. To these drums are connected the operating cords, N N', which, after passing around guide-rolls, *nn'*, arranged in the plane of the base, are attached to the pins which operate in the arc slots in the vertical plate, whereby as the chair is rocked the drums are alternately rotated. The operating cords are wound upon their respective drums in the

same direction, whereby when the cords are drawn both drums are turned in the same direction.

Connected to the drums, or to hubs, O O, upon their inner or adjacent sides, are retraction springs, P P', attached at their lower ends to the base, the function of these springs being to turn the drums in the reverse direction to that in which they are turned by the operating cords, so that after having been turned in one direction and the cord partly or wholly unreeled, the drum is returned to its normal position and the cord reeled thereon again by the retraction spring. The pawls engage the ratchet-wheels in one direction only, namely, the direction in which the drums are turned by the operating cords. The shaft also carries a bevel-gear, Q, which meshes with a bevel-pinion, R, attached to the fan-shaft, S, said shaft being mounted in a suitable supporting frame-work, T, and provided with a fan, U.

The operation of my fan attachment is as follows: A rocking-chair having been placed parallel with the vertical guide-plate, D, with its near rocker in the guide-slot, as indicated in the drawings, Fig. 1, and the operating cords attached to the pins upon the extremities of the rockers and operating in the guide slots provided for that purpose, when the chair is rocked the extremities of the near rocker alternately rise, and as each extremity rises it turns the drum to which it is connected in the direction indicated by the dart in Fig. 2. When the drums are turned in said indicated direction, or forward as I will term it, they respectively engage and rotate the ratchet-wheels and consequently the shaft, thereby operating the fan, and when the drums are individually released from the tension of the operating cords they are rotated in the opposite direction, to wind the operating cords, by the above described retraction-springs. Thus the fan-shaft is rotated continuously in one direction indicated by the dart in Fig. 2.

In applying my invention to a spring rocking chair, or one having a stationary base to which the seat is connected by means of springs or similar devices, the plate D and guard rail, C, are dispensed with, a suitable bearing being provided for the adjacent end

of the main shaft, and the ends of the operating cords being fastened to the ends of the seat in any approved manner.

Having thus described my invention, what
5 I claim, and desire to secure by Letters Patent, is—

10 In a device of the class described, the combination of a stationary frame-work adapted to rest upon the floor and provided with a vertical guard-plate provided with curved guide slots, lateral pins attached to opposite extremities of a chair-rocker, a rotatable main-shaft, drums loosely mounted upon said shaft and provided with retraction springs, and pawl

and ratchet connections with said shaft, independent cords reeled in the same direction upon said drums and connected respectively to the pins carried by the chair-rocker, a fan shaft and operating connections between the main shaft and the fan-shaft, substantially as
20 specified.

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

MARTIN M. RUTH.

Witnesses:

JOHN E. SMITH,
J. G. FRANKLIN.