(No Model.)

H. M. BAKER.

FAN ATTACHMENT FOR ROCKING CHAIRS.

No. 483,413. Patented Sept. 27, 1892.

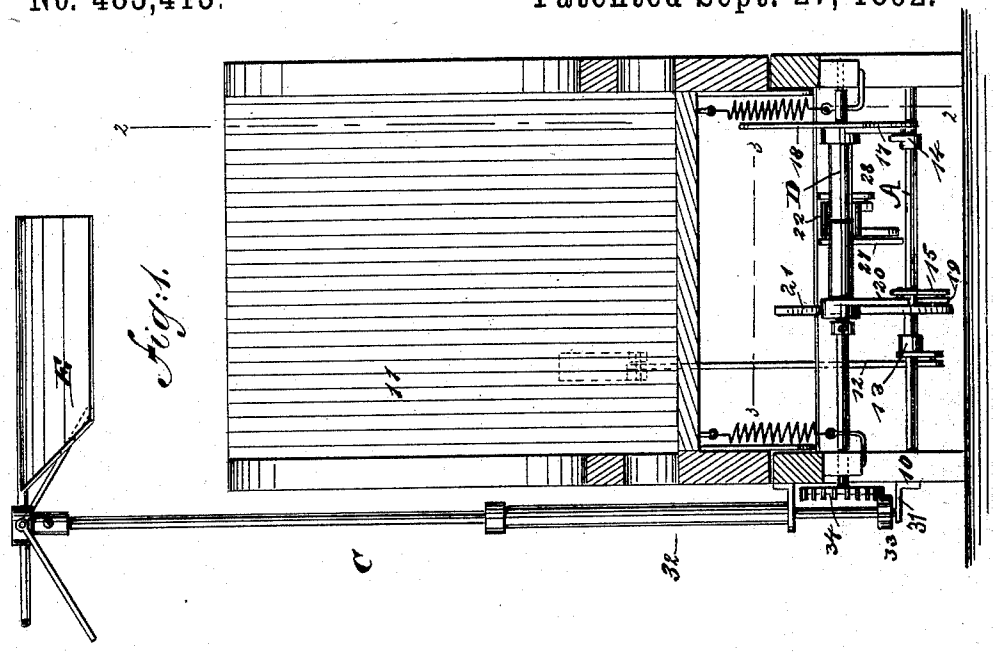

Fig. 1.

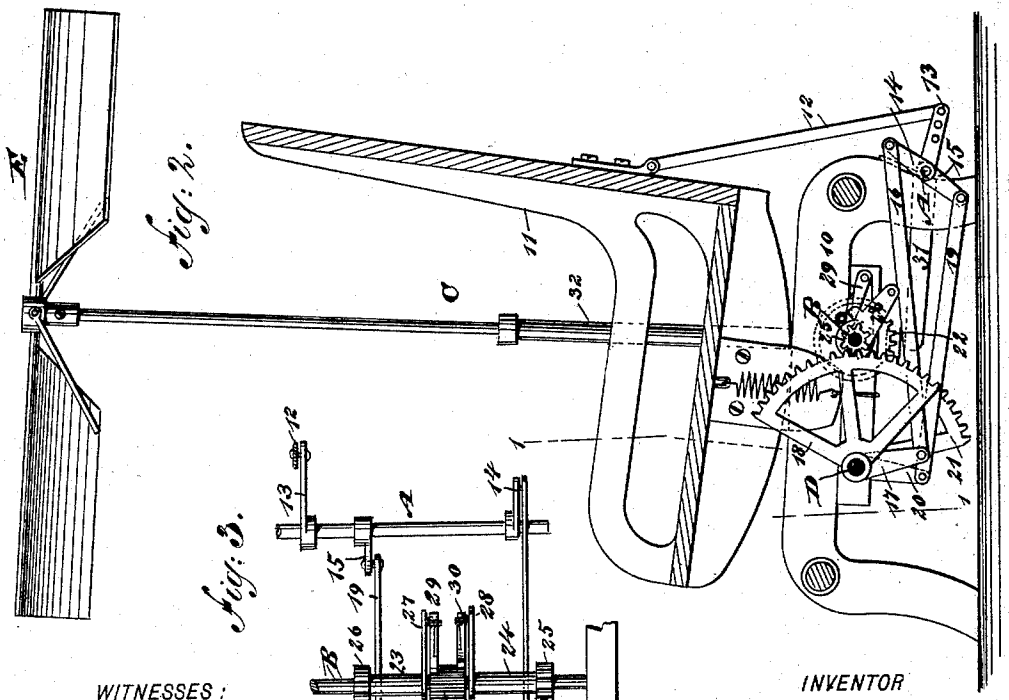

Fig. 2.

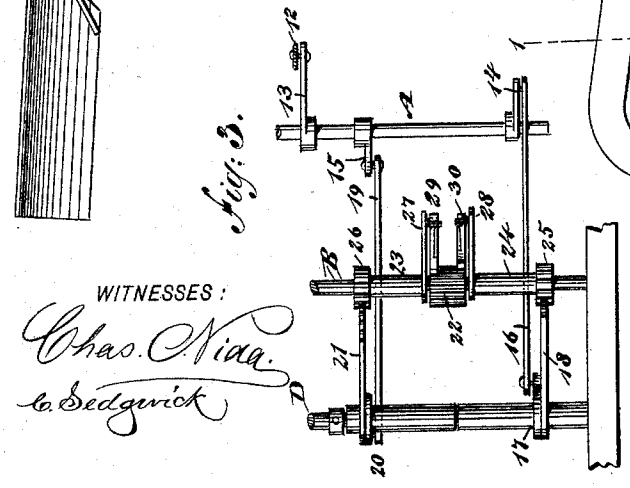

Fig. 3.

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HORACE M. BAKER, OF CARTHAGE, MISSOURI.

FAN ATTACHMENT FOR ROCKING-CHAIRS.

SPECIFICATION forming part of Letters Patent No. 483,413, dated September 27, 1892.

Application filed May 11, 1892. Serial No. 432,601. (No model.)

To all whom it may concern:

Be it known that I, HORACE M. BAKER, of Carthage, in the county of Jasper and State of Missouri, have invented a new and Improved Fan Attachment for Rocking-Chairs, of which the following is a full, clear, and exact description.

My invention relates to a fan attachment for rocking-chairs, and has for its object to provide an attachment of simple, durable, and economic character capable of attachment to any rocker of the platform type and to so construct the attachment that as the body of the rocker is moved backward and forward upon the platform a continuous rotary movement will be imparted to the fan-carrying shaft and the occupant of the chair while rocking will have the advantage of a constant and refreshing current of air.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a transverse section through the rocker, said section being taken, practically, on the line 1 1 of Fig. 2. Fig. 2 is a vertical longitudinal section, being taken, practically, on the line 2 2 of Fig. 1; and Fig. 3 is a detail view of a portion of the fan-driving mechanism.

The rocker may be of any approved or of the ordinary construction and comprises a platform 10, a body 11, having a rocking engagement with the platform, and a spring controlling the movement of the body. At the back of the platform the main or drive shaft A is journaled, and this drive-shaft is connected with the back of the body 11 of the rocker by a pitman 12, the said pitman being pivotally connected with the back at its upper end and pivotally and adjustably secured at its lower end to a crank-arm 13, extending horizontally rearward from the main shaft A. This main shaft is provided with two other crank-arms 14 and 15, extending in opposite directions, one upward and the other downward. The crank-arm 14 is pivotally connected with the rear end of the rod 16, the forward end of which rod is pivotally connected with a crank-arm 17, forming a portion of or attached to a segmental gear 18, the gear facing in direction of the rear and being held to turn upon a fixed shaft D, extending from side to side near the forward portion of the platform. A second connecting-rod 19 unites the crank-arm 15 of the drive-shaft with a crank-arm 20, constituting a portion of a second segmental gear 21, facing in the same direction as the segmental gear 18 and loosely mounted upon the same fixed shaft D.

It will be observed that by reason of the opposite disposition of the crank-arms 14 and 15 when one segmental gear is being rotated downward the other will be given an upward direction.

The driven shaft B is journaled in suitable bearings transversely of the platform between the drive-shaft A and the fixed shaft D. The driven shaft B is provided with an attached toothed or sprocket wheel 22, preferably located at or near the center of the shaft and rigidly secured thereto. At each side of this sprocket-wheel a sleeve is loosely mounted upon the shaft B, one sleeve being designated as 23 and the other as 24. At one end of the sleeve 24 a pinion 25 is secured, meshing with the segmental or mutilated gear 18, and at one end of the sleeve 23 a similar pinion 26 is attached, which meshes with the segmental or mutilated gear 21. The pinions are located at the outer ends of the sleeves. At the inner ends of the sleeves crank-arms are attached, designated, respectively, as 27 and 28. Each of these crank-arms upon their inner faces carry spring-pressed dogs, which are in constant engagement with the ratchet-wheel 22, one near each side edge. These dogs I have designated as 29 and 30, and they are best shown in Fig. 3. It will thus be observed that when the drive-shaft is turned and the mutilated or segmental gears 18 and 21 are thereby reciprocated in opposite directions the dogs will likewise be moved, and thus while one dog is acting upon the ratchet-wheel 22 and revolving it the other dog will be carried backward to a position to act upon the ratchet-wheel the moment the first dog has ceased to

turn it, and by this means a continuous revolution is given to the driven shaft B while the body of the chair is being rocked.

A bracket 31 is located at one side of the chair, and in this bracket the lower end of a vertical fan-shaft C is journaled, the fan-shaft being likewise journaled intermediate of its ends in a tube 32, attached at its lower end to the platform of the chair and extending upward, preferably, above an arm of the body.

The fan-shaft near its lower end has a pinion 33 secured to it, which meshes with a crown-wheel 34 or other approved form of gearing attached to one extremity of the driven shaft B. At the upper end of the fan-shaft C a fan E of any approved construction is horizontally attached, the fan-hub being adjustably secured to the fan-shaft.

I desire it to be distinctly understood that if in practice it is found desirable the fan may be so constructed that the moment a person is seated in the body of the chair the blades of the fan will open outward to their open position, and the moment that the chair is vacated the blades will automatically fold downward around the fan-shaft, and the fan-shaft may be so constructed that it may be entirely removed from the chair, and it is obvious from the foregoing description that while the occupant of the chair continues to rock the body thereof the fan attachment when in place will be kept constantly in motion.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the platform and the body of a platform-rocker and a fan-shaft located at one side thereof and provided with a fan, of a drive-shaft having a crank connected with the body of the rocker, the drive-shaft being journaled in the platform thereof, segmental gears held to turn loosely upon a fixed shaft secured upon the platform of the rocker, a crank and pitman connection between the drive-shaft and the segmental gears, the cranks standing in opposite directions, whereby the segmental gears are oppositely and intermittently moved, a driven shaft connected with the fan-shaft and provided with an attached ratchet-wheel, sleeves mounted loosely upon the driven shaft, each sleeve carrying a pinion meshing with one of the segmental gears, and a crank-arm provided with a spring-controlled dog, both dogs engaging with the ratchet-wheel of the driven shaft, as and for the purpose set forth.

2. The combination, with the platform and the body of a platform-rocker, a fan-shaft carrying a fan, journaled vertically at one side of the chair free of the body, and a horizontal shaft journaled beneath the platform, engaging with the fan-shaft and actuating it, the horizontal or driven shaft being provided with an attached ratchet-wheel, of a drive-shaft journaled at the rear of the platform, provided with a crank-arm having a pitman connection with the back of the chair, crank-arms attached to the drive-shaft and extending in opposite directions, which crank-arms have pitman connections with mutilated gears loosely mounted upon a fixed shaft secured in the rocker-platform, sleeves loosely mounted upon the driven shaft, connected with the fan-shaft one at each side of its ratchet-wheel, the said sleeves being provided with pinions engaging with the mutilated gears, crank-arms attached to the inner ends of said sleeves, and spring-actuated dogs carried by said crank-arms engaging with said ratchet-wheels and acting alternately thereon, as and for the purpose set forth.

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Witnesses:
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