

No. 666,310.

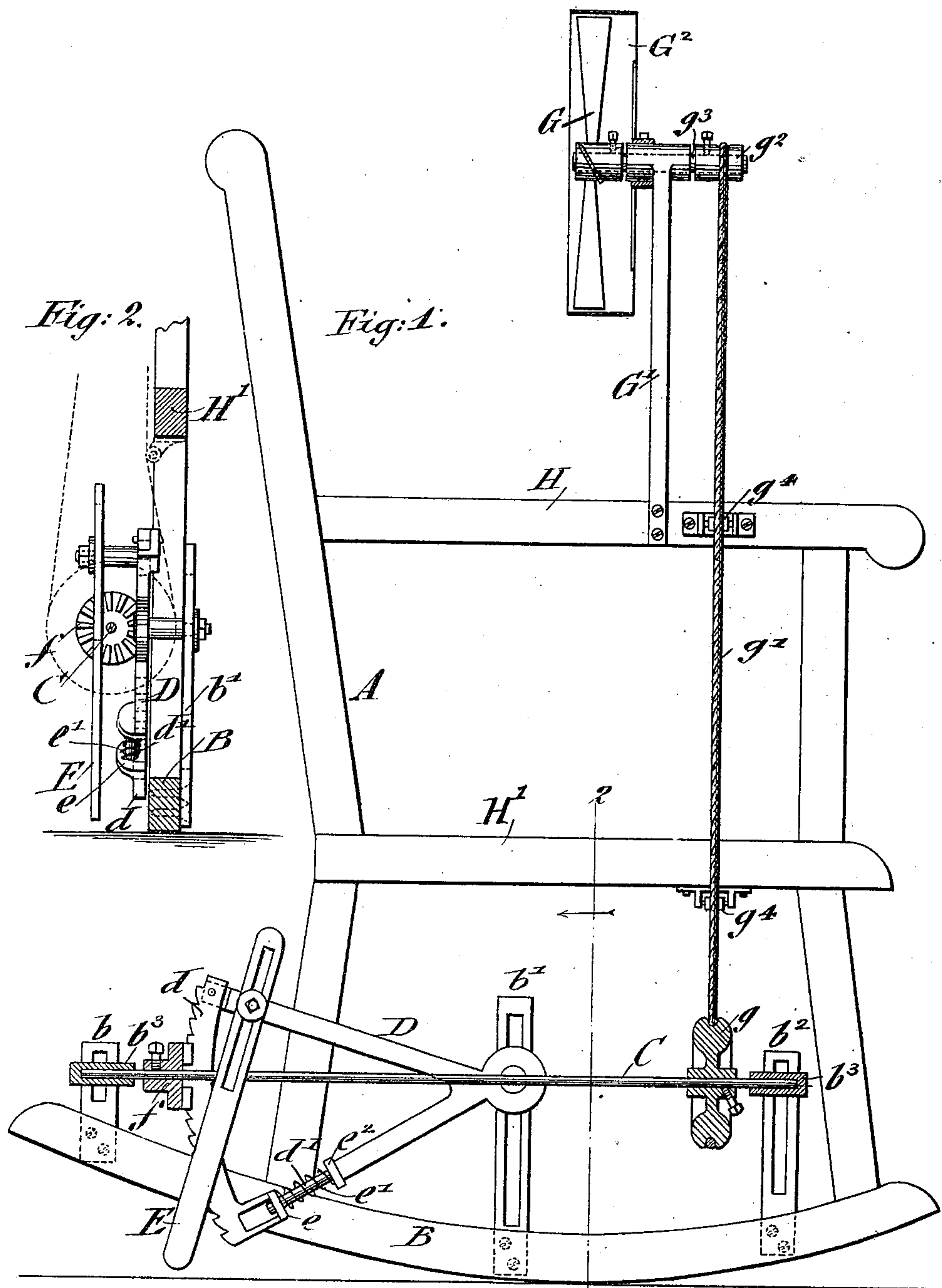
Patented Jan. 22, 1901.

O. HERRMANN.

FAN ATTACHMENT FOR ROCKING CHAIRS.

(Application filed May 1, 1900.)

(No Model.)



WITNESSES:

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FAN ATTACHMENT FOR ROCKING-CHAIRS.

SPECIFICATION forming part of Letters Patent No. 666,310, dated January 22, 1901.

Application filed May 1, 1900. Serial No. 15,051. (No model.)

To all whom it may concern:

Be it known that I, OSCAR HERRMANN, a citizen of the United States, residing in New York, borough of Manhattan, State of New York, have invented certain new and useful Improvements in Fan Attachments for Rocking-Chairs, of which the following is a specification.

This invention relates to an improved fan attachment for rocking-chairs; and the object of the invention is to provide a powerful and at the same time comparatively simple fan attachment which may be applied readily to any rocking-chair of the ordinary construction; and the invention consists in the combination, with a rocking-chair, of a pivoted toothed segment, a pusher-rod attached to said segment, a shaft supported in suitable bearings adjustable upon the rocking-chair, a pinion keyed to said shaft and adapted to mesh with the toothed segment, a fan supported upon the rocking-chair on a suitable shaft, and motion-transmitting mechanism between the pinion-shaft and fan-shaft, substantially as hereinafter described; and the invention consists, further, in certain details of construction and combinations of parts, also described and claimed hereinafter.

In the accompanying drawings, Figure 1 represents a side elevation of a rocking-chair with my improved fan attachment applied thereto, parts being shown in section; and Fig. 2 is a vertical section on line 2-2, Fig. 1, showing the fan attachment as viewed in the direction of the arrow in Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a rocking-chair of the usual construction, and B one of the rockers of the same. To the inside of the rocker B are attached, by suitable fastening-screws, three slotted upright standards b b' b^2 , of which the two b b^2 serve for supporting the bearings b^3 for a horizontal shaft C, while the longer intermediate standard serves for supporting the shaft of an oscillating toothed segment D. The journal-bearings for the shaft C are secured to the standards in any suitable manner, and the shaft of the segment is preferably supported upon the standard b' by a washer and clamping-nut, as shown in Fig. 2, so as to be

held in position thereon in such manner that it can oscillate freely on said shaft. The toothed portion d of the segment is pivoted at its upper end to the upper arm of the segment and provided at its lower end with a socket e , in which the pin-shaped end d' of the lower arm is guided, a helical cushioning-spring e' being interposed between the socket e and a collar e^2 of the lower arm, as shown in Fig. 1. The teeth of the bar d may be made of arched shape and mesh with the teeth of a crown-pinion f , which is secured by a set-screw to the horizontal shaft C, when the segment is moved in upward direction. When the segment is moved in downward direction, the teeth of the crown-pinion are not engaged by the segment. To the upper arm of the segment D is applied, by a suitable clamping-screw, a slotted pusher-arm E, which is arranged, preferably, at right angles to the arm of the segment and at such a height as to contact with the floor at each backward motion of the rocking-chair, so as to lift the segment D and produce by the meshing of its teeth with the crown-pinion the quick rotation of the horizontal shaft C. When the rocking-chair is moved in forward direction, the segment, by gravity, returns in downward direction relatively to the pinion, its teeth passing over the pinion-teeth without meshing in the same. On the downward movement the spring e' yields and permits the inward swinging of the toothed bar d of the segment sufficiently to enable it to move easily upon the pinion-teeth. The rotary motion imparted to the shaft C is transmitted by a pulley g , keyed to the same, and an endless cord g' to a pulley g^2 on the shaft of the rotary fan G, which is supported on an upright arm or standard G' , that is attached to one of the arms H of the chair, as shown in Fig. 1. A guard G^2 for the fan is supported on the arm G' . The transmitting-cord g' is guided on suitable rollers g^4 , which act also as tension-pulleys and which are attached to the seat H' and arm H of the chair. The lower pulley g is made in the nature of a fly-wheel and serves thereby to keep the fan in motion during the forward oscillation of the rocking-chair during the time when the segment and pusher-rod are returning into lowered position. By the intermittent

meshing of the toothed segment with the pinion intermittent rotary motion in one direction is imparted to the shaft C and by the transmitting cord and pulleys to the fan.

5 After the chair has been rocked back and forth several times the motion becomes continuous by means of the fly-wheel pulley *g*, so that a continuous draft of air is produced by the fan.

10 The slots in the straps and in the pusher-rod permit perfect adjustment of the parts, so that the attachment can be applied to rockers of varying sizes. By adjustment of the pusher-rod the amount of impulse to be given
15 to the pusher-rod can be regulated, and thereby the strength of the draft controlled.

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

20 1. The combination, with a rocking-chair, of a pivoted toothed segment, a pusher-rod attached to said segment, a shaft supported in suitable bearings adjustable upon the rocking-chair, a pinion keyed to said shaft and
25 adapted to mesh with the toothed segment, a fan supported upon the chair on a suitable shaft, and motion-transmitting mechanism between the pinion-shaft and fan-shaft, substantially as set forth.

30 2. The combination, with a rocking-chair, of a segment pivotally supported on the frame of the same, said segment being composed of upper and lower arms and a toothed portion

pivoted to one of said arms and spring-cushioned and guided on the other arm, a shaft 35 supported in suitable bearings upon the rocking-chair, a pusher-rod attached to one arm of the segment and extending below the rockers of the chair, a pinion keyed to the shaft and adapted to mesh with the toothed portion 40 of the segment, a fan suitably supported upon the chair, and motion-transmitting mechanism between the pinion-shaft and the fan-shaft, substantially as set forth.

3. The combination, with a rocking-chair, 45 of slotted standards attached to the same, a toothed segment pivoted to one of said standards, an adjustable pusher-arm attached to said segment and extending below the same and below the rockers of the chair, bearings 50 adjustably supported on said standards, a shaft supported in said bearings, a crown-pinion keyed to said shaft and adapted to mesh with the teeth of the segment, a fan and fan-shaft supported in suitable bearings upon 55 the chair, and motion-transmitting mechanism between the pinion-shaft and fan-shaft, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses. 60

OSCAR HERRMANN.

Witnesses:

PAUL GOEPEL,
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