

J. DAUSTER.  
FAN FOR ROCKING CHAIRS.  
APPLICATION FILED AUG. 28, 1908.

910,915.

Patented Jan. 26, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

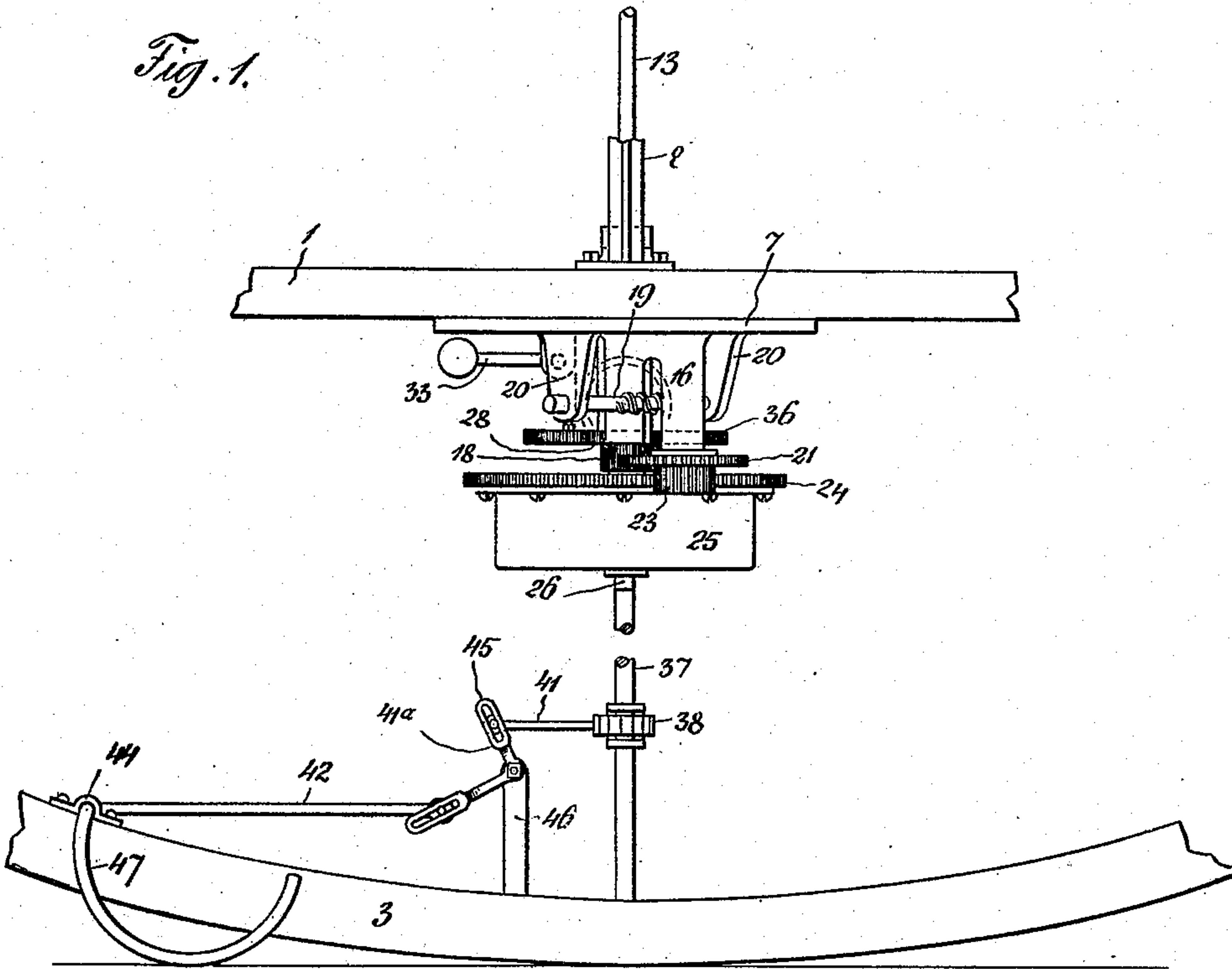
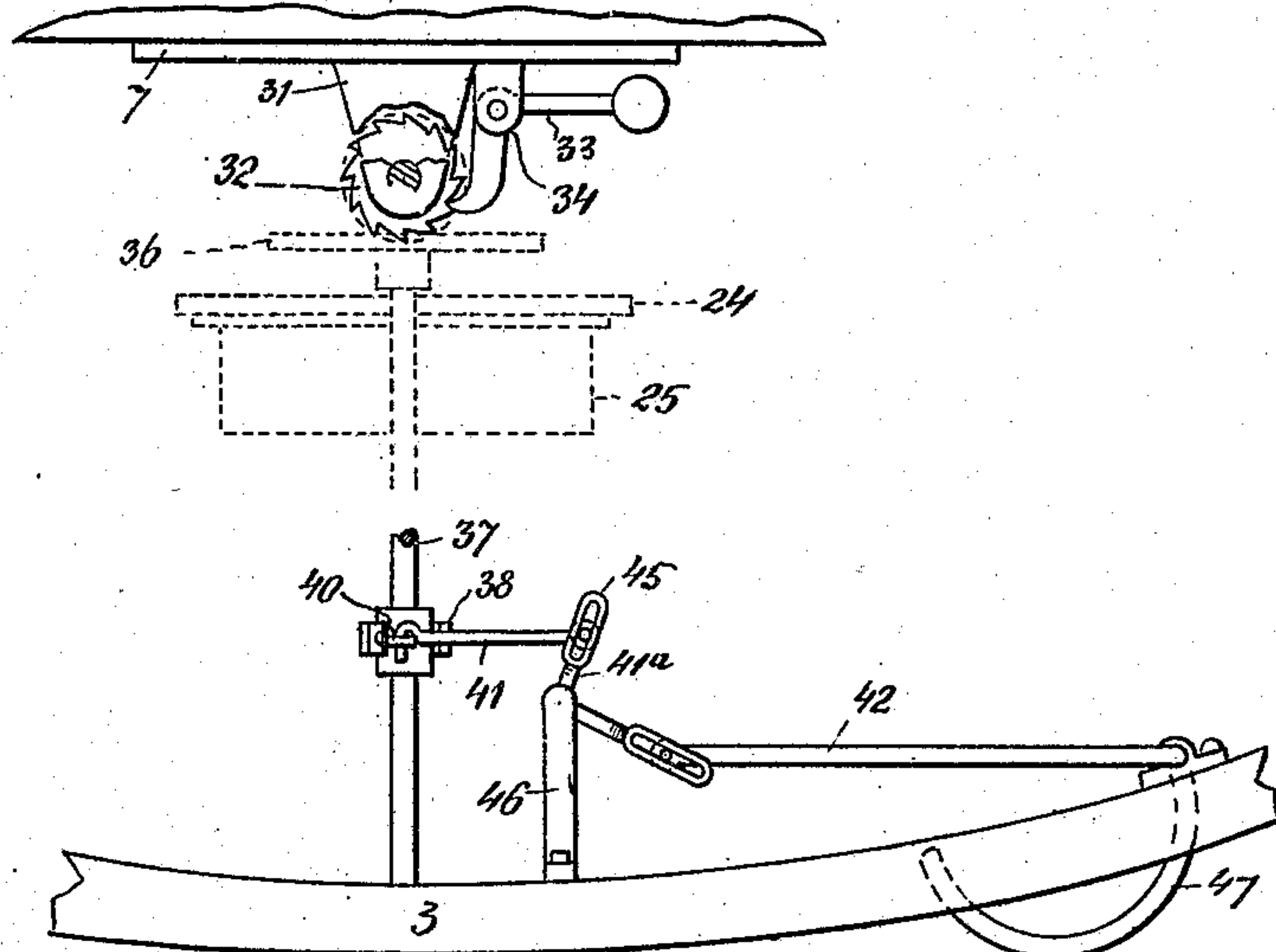


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

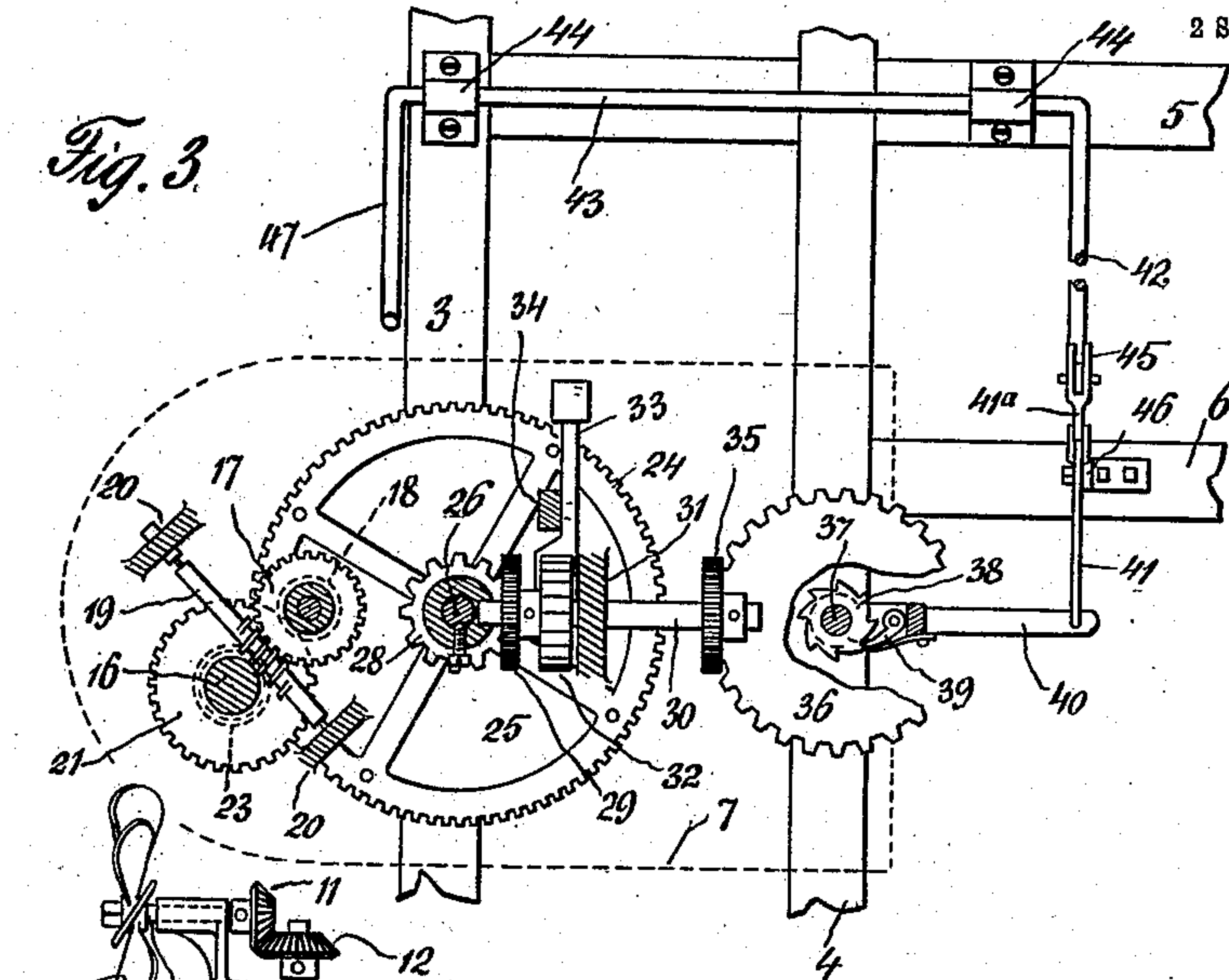
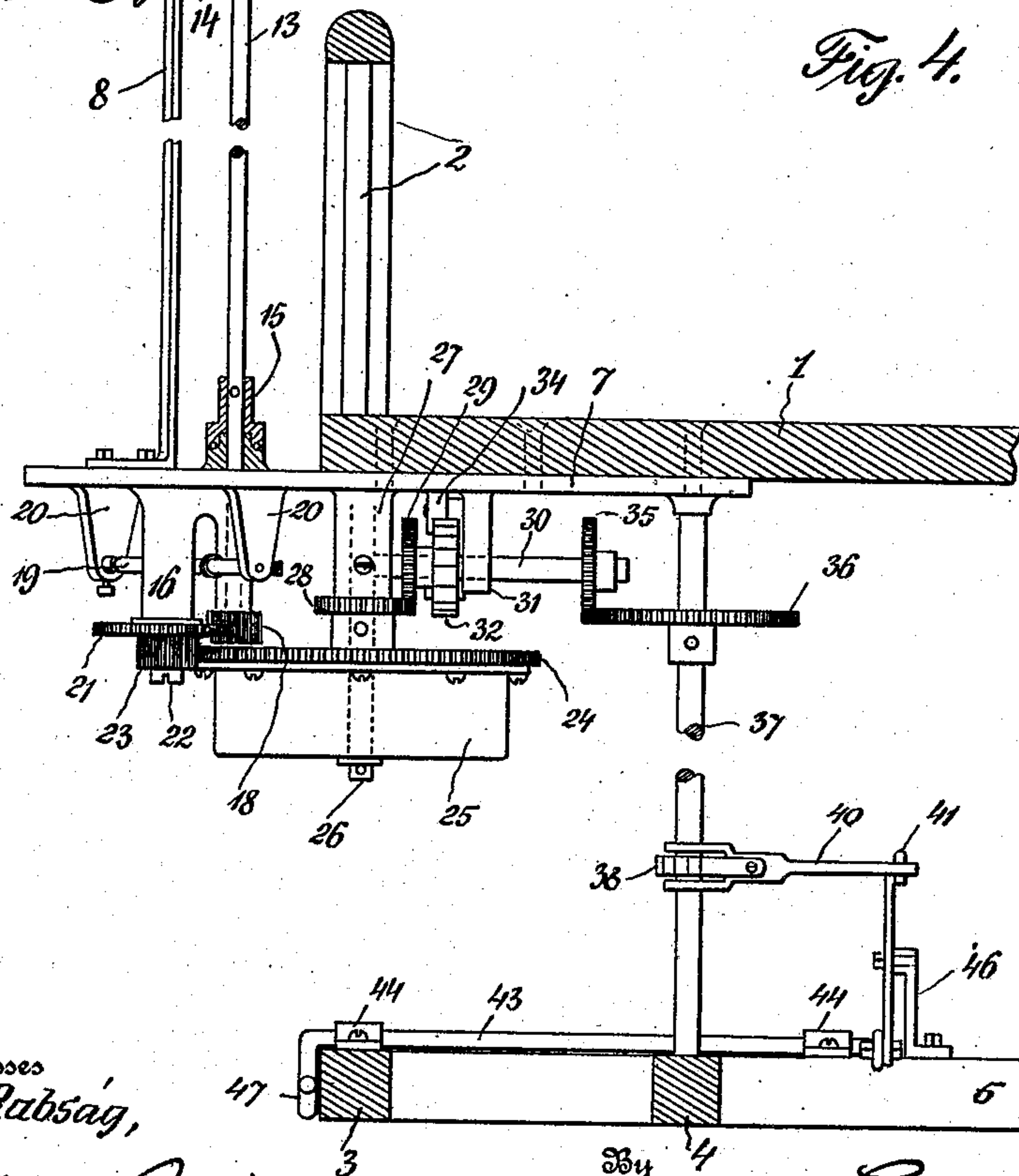


Fig. 4.



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# UNITED STATES PATENT OFFICE.

JOHN DAUSTER, OF PITTSBURG, PENNSYLVANIA.

## FAN FOR ROCKING-CHAIRS.

No. 910,915.

Specification of Letters Patent.

Patented Jan. 26, 1909.

Application filed August 28, 1908. Serial No. 450,725.

*To all whom it may concern:*

Be it known that I, JOHN DAUSTER, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fans for Rocking-Chairs, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a fan attachment for chairs, and the primary object of my invention is to provide a strong and durable attachment for chairs, wherein positive and reliable means are employed for imparting a rotary movement to a fan from a rocking or oscillating movement of a chair.

Another object of this invention is to utilize a spiral spring for continuously imparting a rotary movement to a fan, the rocking movement of the chair being employed to place said spring under tension whereby the fan will be continuously rotated during a short cessation of the rocking movement of the chair.

25 With the above and other objects in view, which will more readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be presently described and then claimed.

30 In the drawings, Figure 1 is a side elevation of a portion of my attachment as applied to a portion of a rocking chair, Fig. 2 is a similar view of the same partly broken away and partly in section, Fig. 3 is a bottom plan of a portion of the mechanism partly broken away and partly in section, and Fig. 4 is a front elevation of the attachment partly broken away.

40 In the accompanying drawings, 1 designates a seat of a rocking chair having an arm 2, this seat being suitably supported above rockers 3 and 4 which are suitably connected by transverse braces 5 and 6. The seat 1 is provided with a plate 7 extending beyond the arm 2, this plate being suitably secured to the underneath side of the seat 1. Upon the protruding end of the plate 7 is mounted a vertical bracket 8 having a revoluble shaft 9, said shaft having one end thereof provided with a bladed fan 10 and the opposite end thereof with a beveled gear wheel 11. The beveled gear wheel 11 meshes with a similar wheel 12 mounted upon a shaft 13, journaled in a bearing 14 carried by the bracket 8 and an antifriction bearing 15 arranged upon the

plate 7. The lower end of the shaft 13 extends through a double bearing 16 carried by the under side of the plate 7, and is provided with gear wheels 17 and 18, the former meshing with a worm 19 journaled in depending bearings 20, carried by the plate 7, while the latter meshes with a gear wheel 21 mounted upon a stub shaft 22, journaled in the bearing 16. The worm 19 acts as a means to limit speed of rotation of the fan and which will cause the operation of the fan in a regular manner, or in other words acts as an escapement. The stub shaft 22 is provided with another gear wheel 23 adapted to mesh with a large gear wheel 24 secured to a spring drum 25. This spring drum is mounted upon a depending vertical shaft 26 journaled in a depending bearing 27, carried by the plate 7. In the spring drum 25 is arranged a spiral spring of the usual form commonly used for horology as a main spring. This spring which I have deemed it unnecessary to illustrate, has one end fixed to the drum 25, while the opposite end is fixed to the shaft 26.

Upon the shaft 26 is mounted a toothed wheel 28 and meshing with said wheel is another toothed wheel 29, mounted upon a shaft 30 journaled in the depending bearing 27 and a similar bearing 31, carried by the plate 7. Fixed upon the shaft 30 is a ratchet wheel 32 and engaging said wheel is a gravity ball 33 pivotally attached to a depending bearing 34 carried by the plate 7. Fixed upon the shaft 30 is another toothed wheel 35 meshing with a similar wheel 36 mounted upon the vertical shaft 37 journaled between the seat 1 and the rocker 4. Located upon the shaft 37 adjacent to the rocker 4 is a ratchet wheel 38 engaged by a spring pressed pawl 39, carried by a ratchet lever 40 loosely mounted upon the shaft 37. The end of the ratchet lever 40 is connected by a link 41 to a bell crank lever 41<sup>a</sup>, which is connected to a crank arm 42 of a shaft 43, said shaft being journaled in bearings 44 carried by the rocker 3 and the brace 5. The bell crank lever 41<sup>a</sup> is provided with slotted ends 45 and is pivotally attached to a bearing 46, carried by the brace 6. The end of the shaft 43 adjacent to the rocker 3 is provided with a curved crank arm 47 adapted to rest upon the floor or support of a rocking chair.

Operation:—The curved crank arm 47 is located a short distance from the dead center of the rocker 3, whereby when the rocker is oscillated, a rocking movement will be im-



parted to the shaft 43. As this shaft is connected by a bell crank lever 41<sup>a</sup> and the link 41 to the ratchet lever 40, said lever will be oscillated and at each forward stroke will  
 5 move the shaft 37. The intermittent movement imparted to the shaft 37 will, through the movement of the toothed wheels 36 and 35, shaft 30, toothed wheels 28 and 29, wind the shaft or arbor 26, and the spring contained within the drum 25 will be placed under tension with greater rapidity than what the tension of said spring is exhausted. In  
 10 consequence of this fact, the drum 25 and gear wheel 24 will be rotated continuously during a rocking movement of the chair or even during a short cessation in the rocking movement. Through the medium of the gear wheels 23, and 18 a rotary movement will be imparted to the shaft 13, and through  
 15 the movement of the beveled gear wheels 11 and 12, and shaft 9 a rotary movement will be imparted to the bladed fan 10. The gear wheel 17 meshing with the worm 19 prevents the shaft 13 and 9 from rotating in an opposite direction, while the gravity pawl 33 and  
 20 the ratchet wheel 32 prevents the spring within the drum 25 from unwinding during a short cessation in the operation of a rocking chair.

30 My attachment in its entirety is made of strong and durable metal and is arranged whereby a greater part thereof will be invisible, thereby not detracting from the general appearance of a rocking chair.

35 While in the drawings forming a part of this application there is illustrated the preferred embodiments of my invention, I would have it understood that the structural elements thereon can be varied or changed as  
 40 to the size, shape or minor details of construction without departing from the spirit of the invention.

Having now described my invention, what I claim as new, is;—

45 1. In a fan attachment the combination with a chair having a seat supported by rockers, of a plate attached to said chair, a vertical bracket carried by said plate, a bladed fan revolubly supported by said  
 50 bracket, a vertical shaft revolubly supported by said plate for imparting a rotary movement to said fan, a depending bearing carried by said plate, a stub shaft journaled in said bearing, gear wheels mounted upon  
 55 said shaft, gear wheels mounted upon said vertical shaft with one of said gear wheels meshing with one of the gear wheels of said stub shaft, a worm revolubly supported from said plate and meshing with the other  
 60 of said gear wheels of said vertical shaft, a spring drum revolubly supported from said plate, a large gear wheel carried thereby and meshing with the other of said gear wheels of said stub shaft, a vertical shaft journaled  
 65 between the seat and one of the rockers of

said chair, a ratchet lever arranged upon said shaft for imparting an intermittent movement thereto, means supported by said seat and actuated by said shaft for placing  
 70 said spring drum under tension, a bell crank lever pivotally mounted upon one of said rockers for oscillating said ratchet lever, a rock shaft journaled upon said rockers and having a crank arm connecting with said  
 75 bell crank lever, and a curved crank arm carried by said rock shaft for rocking said shaft when said chair is oscillated, substantially as described.

2. In a fan attachment the combination with a chair having a seat supported by 80 rockers, of a plate attached to said chair, a vertical bracket carried by said plate, a bladed fan revolubly supported by said bracket, a vertical shaft revolubly supported by said plate for imparting a rotary 85 movement to said fan, a depending bearing carried by said plate, a stub shaft journaled in said bearing, gear wheels mounted upon said shaft, gear wheels mounted upon said vertical shaft with one 90 of said gear wheels meshing with one of the gear wheels of said stub shaft, a worm revolubly supported from said plate and meshing with the other of said gear wheels of said vertical shaft, a spring drum revolubly supported from said plate, a large gear wheel  
 95 carried thereby and meshing with the other of said gear wheels of said stub shaft, a vertical shaft journaled between the seat and one of the rockers of said chair, a ratchet lever 100 arranged upon said shaft for imparting an intermittent movement thereto, means supported by said seat and actuated by said shaft for placing said spring drum under tension, means actuated by said rocking 105 movement of said chair for oscillating said ratchet lever, said means including a rock shaft having a curved crank arm.

3. The combination with a rocking chair, of a plate carried thereby, a vertical bracket 110 supported by said plate, a bladed fan revolubly supported by said bracket, a vertical shaft journaled in said plate and adapted to impart a rotary movement to said fan, a spring drum arranged beneath said plate for 115 imparting a rotary movement to said vertical shaft, means arranged beneath said plate for preventing a rearward rotation of said vertical shaft, a ratchet mechanism for placing said spring drum under tension, and 120 means actuated by rocking movement of said chair for oscillating said ratchet mechanism.

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

JOHN DAUSTER.

Witnesses:

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 K. H. BUTLER.