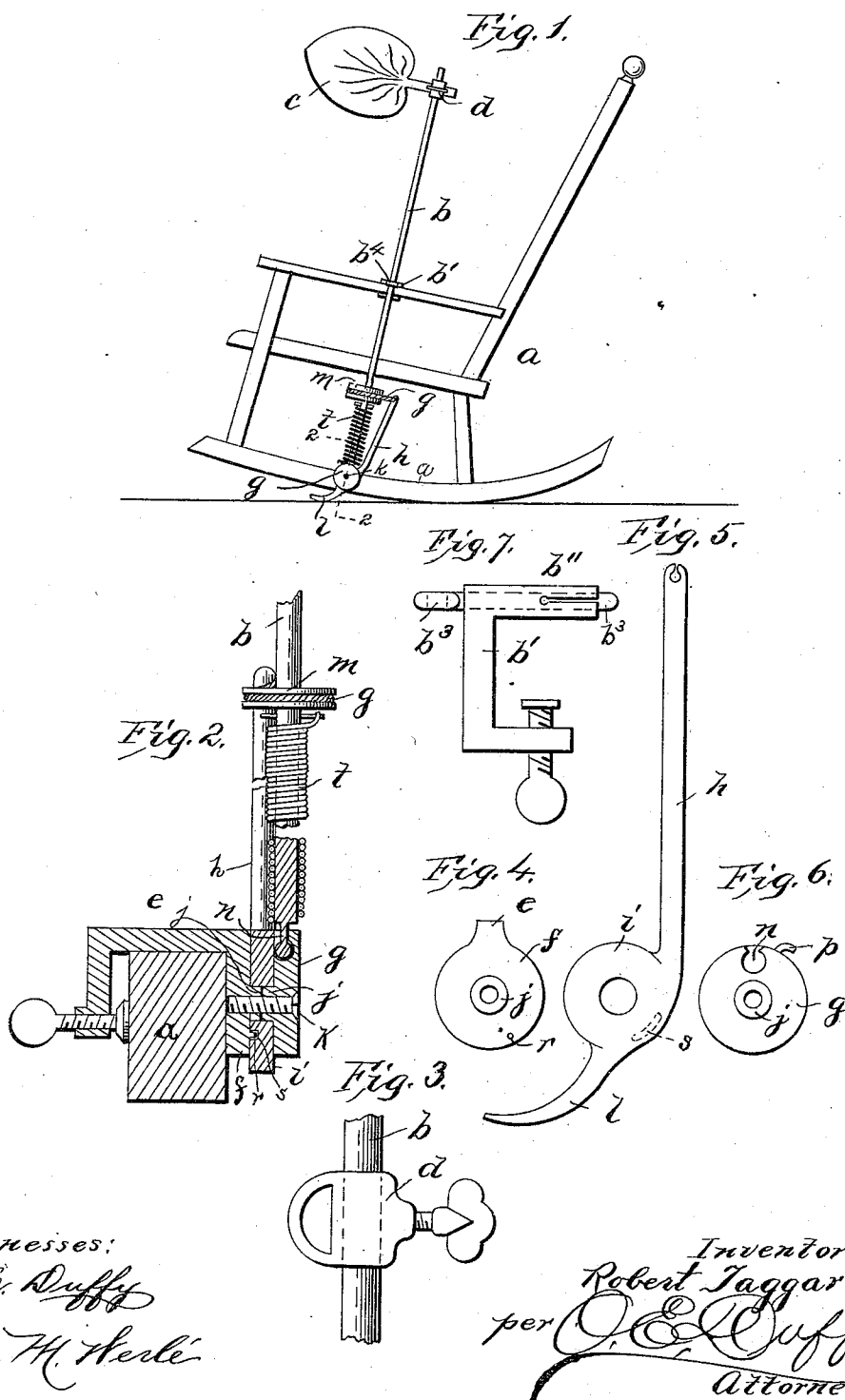


(No Model.)

R. TAGGART.
FAN ATTACHMENT.

No. 532,923.

Patented Jan. 22, 1895.



Witnesses:
E. C. Duffy
Chas. M. Herli

Inventor
Robert Taggart
per J. E. Duffy
Attorney.

UNITED STATES PATENT OFFICE.

ROBERT TAGGART, OF DECATUR, ILLINOIS.

FAN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 532,923, dated January 22, 1895.

Application filed June 21, 1894. Serial No. 515,306. (No model.)

To all whom it may concern:

Be it known that I, ROBERT TAGGART, of Decatur, in the county of Macon and State of Illinois, have invented certain new and useful
5 Improvements in Fan Attachments; 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
10 same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in automatic fans for chairs.

The object of the invention is to provide a very simple and yet strong, durable and effective fan attachment for rocking chairs so constructed and arranged that it can be easily
20 attached to any rocking chair, or removed therefrom, and will be operated by the oscillating movement of the chair.

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

Referring to the accompanying drawings: Figure 1, is an elevation of a rocking chair with the present improvement attached. Fig.
30 2, is a partial detail sectional view on the line 2—2 Fig. 1. Fig. 3, is a detail view of a fan clamp on the vertical rock shaft; Figs. 4, 5, and 6, detached detail elevations of parts of the fan attachment. Fig. 7, is a plan view of
35 a bearing and clamp for the shaft.

In the drawings *a*, is a rocking chair.

b, is a vertical rock shaft extending up beside the chair and a suitable distance above the seat thereof. Suitable supports are provided for this shaft. The upper portion of
40 the shaft is provided with any suitable means to adjustably hold a fan *c*. A clamp *d*, can be provided for this purpose composed of a block, as shown in Fig. 3, through which slots
45 pass at right angles and open into each other. This shaft passes through one slot and the fan shank or handle through the other, so that the shaft and fan can be clamped together by the set screw at any angle or at any height.

50 *e*, is a clamp composed of a U-shaped frame arranged to partially embrace a rocker of the

chair. The inner end of this frame has a clamping screw to engage the inner face of the rocker and rigidly hold the clamp in position thereon. The outer arm of the clamp
55 on the outer face of the rocker preferably consists of a plate *f*, having a central screw threaded opening surrounded on the outer face of the plate by a cylindrical boss.

g, is a plate corresponding to plate *f*, having a central screw threaded opening surrounded, on the inner side, by a cylindrical boss of the same size as and arranged to abut against the boss of plate *f*, to form a pivot or
60 journal for the rocking trip or lever actuating the rock shaft. This lever *h*, has the bearing plate *i*, arranged to turn between the two plates *f* and *g*, and having the central opening or bearing and the journal *j*, formed by said bosses. A screw or bolt *k*, is provided
65 to clamp the parts in position by screwing into said central opening of the plates.

The lever *h*, has a downwardly projecting curved finger *l*, arranged to project below the plane of the under edge of the rocker and
75 thus engage the floor as the rocker oscillates, and it also has an upwardly projecting arm having a flexible connection *g*, from its upper end secured to and wound on the grooved drum or pulley *m*, rigid on the lower portion of the
80 vertical shaft. The outer plate *g*, can also form a support or step block for the fan shaft by having a socket *n*, in its inner face to receive the reduced lower end of the fan shaft so that the fan shaft can be turned therein and
85 will be upheld thereby and retained thereon by the bearing plate *i*, of the rocking lever. If desired guides for the fan shaft can also be secured to various parts of the chair. The guides can be formed as shown in Fig. 7,
90 wherein a U-shaped clamp *b'*, is provided to engage the seat arm having a horizontal bearing *b''*, containing an eye bolt *b³*, held therein by friction, the eye of the bolt receiving the fan shaft and permitting setting thereof
95 at the desired inclination from the perpendicular. Thus the lower clamp *e*, need not always be arranged directly beneath the clamp *b'*, as the bolt *b³* can turn horizontally to always maintain the axis or center of the eye
100 opening of the bolt and the longitudinal axis of the shaft parallel and coincident, or the

clamp b' can be shifted within a limited distance, independently of the lower clamp, to move the fan toward or from the head of the occupant of the chair. The bolt b^3 turns in its bearing as the inclination of the shaft varies. A coiled spring t , is wound on the fan shaft between its lower support and the drum and at one end is secured to the shaft and at its opposite end is secured to the hook or projection p , of the outer plate g . This spring is so wound and secured on the shaft as to constantly tend to move the shaft to its limit of movement in one direction with the connection g , wound on the drum and the curved finger or shoe of the lever projecting downwardly below the rocker. The plate f , of the clamp has a stop r , projecting into a curved slot s , in the bearing plate of the swinging lever to limit the swing thereof.

It will be observed that the movement of the rocker causes the shoe of the lever to be pressed up and consequently the upper portion thereof to be rocked outwardly unwinding the flexible connection from the drum and rocking the fan shaft against the tension of its spring which returns the parts when the chair swings in the opposite direction. The fan shaft is thus kept rotating in opposite directions with the chair, thereby vibrating the fan adjacent to the head of the occupant. The spring can be so light in tension that the extra force required to swing the lever will not be noticeable.

The durability, simplicity, ease of operation and adjustment of this device are obvious.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a fan attachment, the combination of the upright rotary fan shaft, a clamp provided with a step block in which the lower end of said shaft is journaled, a lever journaled directly in said clamp and having a shoe to engage the floor, said lever connected with and controlling the shaft, substantially as described.

2. In a fan attachment, the combination of the upright rotary fan shaft, the step block for the lower end thereof, a clamp carrying the step block, a lever fulcrumed on the clamp and having a shoe to engage the floor, a flexible connection secured to the shaft and lever, and a coiled spring constantly tending to rotate the shaft in one direction, substantially as described.

3. In a fan attachment, the combination of the upright rotary fan shaft, a clamp, a step block in which the lower end of the shaft is mounted, the shoe lever confined between the step block and body of the clamp, a bolt securing the parts together, a pulley on the shaft on which the connection from the lever is wound, a coiled spring on the shaft secured to the pulley and to the step block, substantially as described.

4. In a fan attachment, the combination of the spring controlled rotary fan shaft, a guide for the upper portion thereof having a support, a clamp having a flat face provided with a central boss, a clamping bolt passing through the boss, a step block for the lower end of the shaft having a boss engaging said boss of the clamp, a lever fulcrumed on said bosses between the clamp body and block and arranged to be rocked by engagement with the floor, and connected with said shaft to operate the same, substantially as described.

5. In a fan attachment, the combination of the rotary upright spring controlled fan shaft, a support for the lower end thereof, operating means for rotating the fan as the chair rocks, a U-shaped clamp to fasten on the upper portion of the chair having a horizontal bearing b'' , and an eye bolt having the shaft passing loosely through its eye and its shank confined to turn in said bearing, as set forth.

6. In a fan attachment, the combination of the upright spring controlled fan shaft, the U-shaped clamp to fasten on a rocker having the flat outer side perforated and provided with the outwardly extending boss, the step block in the form of a perforated plate with a lateral boss and a socket in the inner side of its upper edge in which the end of said shaft fits and turns, a clamping bolt, the shoe lever having the bearing plate turning on said bosses, and provided with the curved slot, the step on the clamp entering said slot, and operating connections from the lever to 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:

J. C. HOSTETLER,
W. B. HOSTETLER.