

(No Model.)

A. FLIERBOOM.
FAN ATTACHMENT FOR CHAIRS.

No. 495,319.

Patented Apr. 11, 1893.

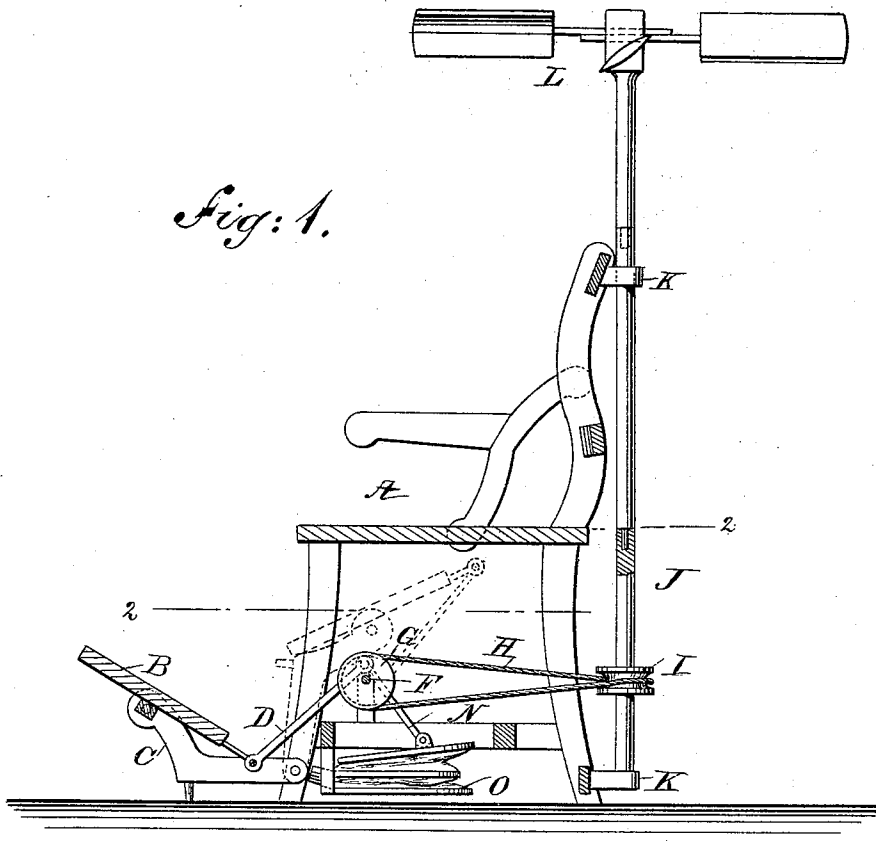
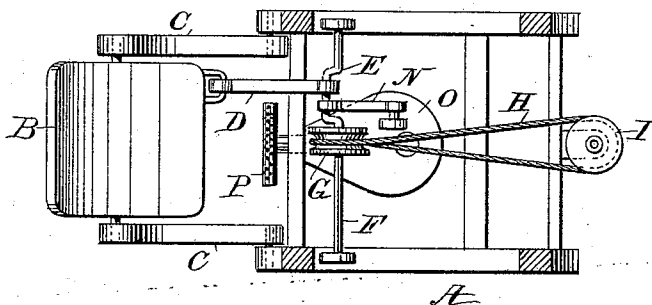


Fig: 2.



WITNESSES:

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FAN ATTACHMENT FOR CHAIRS.

SPECIFICATION forming part of Letters Patent No. 495,319, dated April 11, 1893.

Application filed December 22, 1892. Serial No. 456,057. (No model.)

To all whom it may concern:

Be it known that I, ANTON FLIERBOOM, a subject of the Queen of Holland, residing at Elizabeth, in the county of Union and State of New Jersey, have invented a new and Improved Fan Attachment for Chairs, of which the following is a full, clear and exact description.

The object of the invention is to provide a new and improved fan attachment for chairs, which is simple and durable in construction, and arranged to fan the person without much exertion on the part of the operator, and adapted to be readily detached and folded for shipping, storing, &c.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

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

Figure 1 is a sectional side elevation of the improvement; and Fig. 2 is a sectional plan view of the same on the line 2—2 of Fig. 1.

The fan attachment is applied on a suitably constructed chair A, which has a foot-rest B, made in the form of a treadle pivoted on arms C, pivoted to the lower ends of the front legs of the chair, as is plainly shown in the drawings, so that the said arms C, with the treadle B can be folded under the seat of the chair, as indicated in dotted lines in Fig. 1.

The treadle B is inclined and is connected at its lower, rear end by a pitman D, with a crank arm E of a transversely-extending shaft F, journaled in suitable bearings erected on the side bars connecting the front legs with the rear legs, as indicated in Fig. 2. On this shaft F is fastened a grooved pulley G, over which passes a belt H, extending rearward and passing over a horizontally disposed pulley I, secured on a vertical shaft J, journaled in suitable bearings K, attached to the back of the chair A and to the legs, as is plainly indicated in the drawings. The shaft J is preferably made in sections, as indicated in the drawings, so that the shaft can be readily taken out of its bearings and the several sec-

tions detached for conveniently storing and shipping the shaft.

On the upper end of the shaft J is arranged a fan wheel L, the wings of which extend a suitable distance above the chair, so that when the shaft J is rotated the fan wheel L will agitate the air and thus fan the party seated in the chair A. The wings of the fan wheels L are made adjustable, so that the diameter of the wheel can be increased or decreased at will and the wings set at any desired angle to cause more or less draft.

It will be seen that the party seated in the chair A can actuate the treadle B with his feet, so that a rotary motion is given to the transversely-extending shaft F, which, by the pulley G, the rope H and pulley I, imparts a rotary motion to the vertically disposed shaft J. The fan wheel of the latter agitates the air to fan the person seated in the chair A.

In order to fan the legs and feet of the operator, I connect a pitman N, with the crank arm E, and also with a bellows O, secured in the framework of the chair A and having its nozzle directed forward. On the front end of the nozzle is a transversely extending pipe P, having apertures so as to spread the air forced out of the bellows O when the same is compressed.

It is understood that when the shaft F is rotated the bellows O is opened and closed, so that air is taken in on the opening, in the usual manner, and on the closing of the bellows, air is forced out through the perforated transverse nozzle P, which directs the air to the legs of the operator.

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

1. A fan operating mechanism for chairs comprising two arms C pivoted at their inner ends to the lower portion of the front legs to swing upwardly and inwardly within the chair, a treadle forming foot rest B pivoted at its opposite ends in the upwardly projecting outer ends of the arms C, a transverse transmitting shaft journaled in the chair frame out of the path of the arms C and a crank and pitman connection between the foot rest and the shaft, substantially as set forth.

2. A fan attachment for chairs comprising

- a treadle adapted to be actuated by the operator seated in the chair and forming a foot-rest for the latter, a pitman connected with the said treadle, a transversely - extending shaft carrying a crank arm and connected with the said pitman, a vertically-disposed shaft, a fan wheel held on the said vertically-disposed shaft, pulleys and a belt connecting the said transverse shaft with the said vertically-disposed shaft to rotate the latter on actuating the treadle, a bellows, and a pitman connecting the said bellows with the crank arm of the transversely-disposed shaft, substantially as shown and described.
3. A fan attachment for chairs comprising a treadle adapted to be actuated by the operator seated in the chair and forming a foot-rest for the latter, a pitman connected with the said treadle, a transversely - extending shaft carrying a crank arm and connected with the said pitman, a vertically-disposed shaft, a fan wheel held on the said vertically-

disposed shaft, pulleys and a belt connecting the said transverse shaft with the said vertically-disposed shaft to rotate the latter on actuating the treadle, a bellows, and a pitman connecting the said bellows with the crank arm of the transversely-disposed shaft, and a transversely-extended perforated pipe held on the nozzle of the said bellows, substantially as shown and described.

4. An attachment for chairs comprising a bellows in the lower part thereof and having its outlet pipe extending forwardly to discharge air upon the occupant's legs a shaft journaled above the bellows and connected therewith, a treadle forming foot rest pivotally connected with the chair and operatively connected with said shaft for rotating it, substantially as set forth.

ANTON FLIERBOOM.

Witnesses:

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