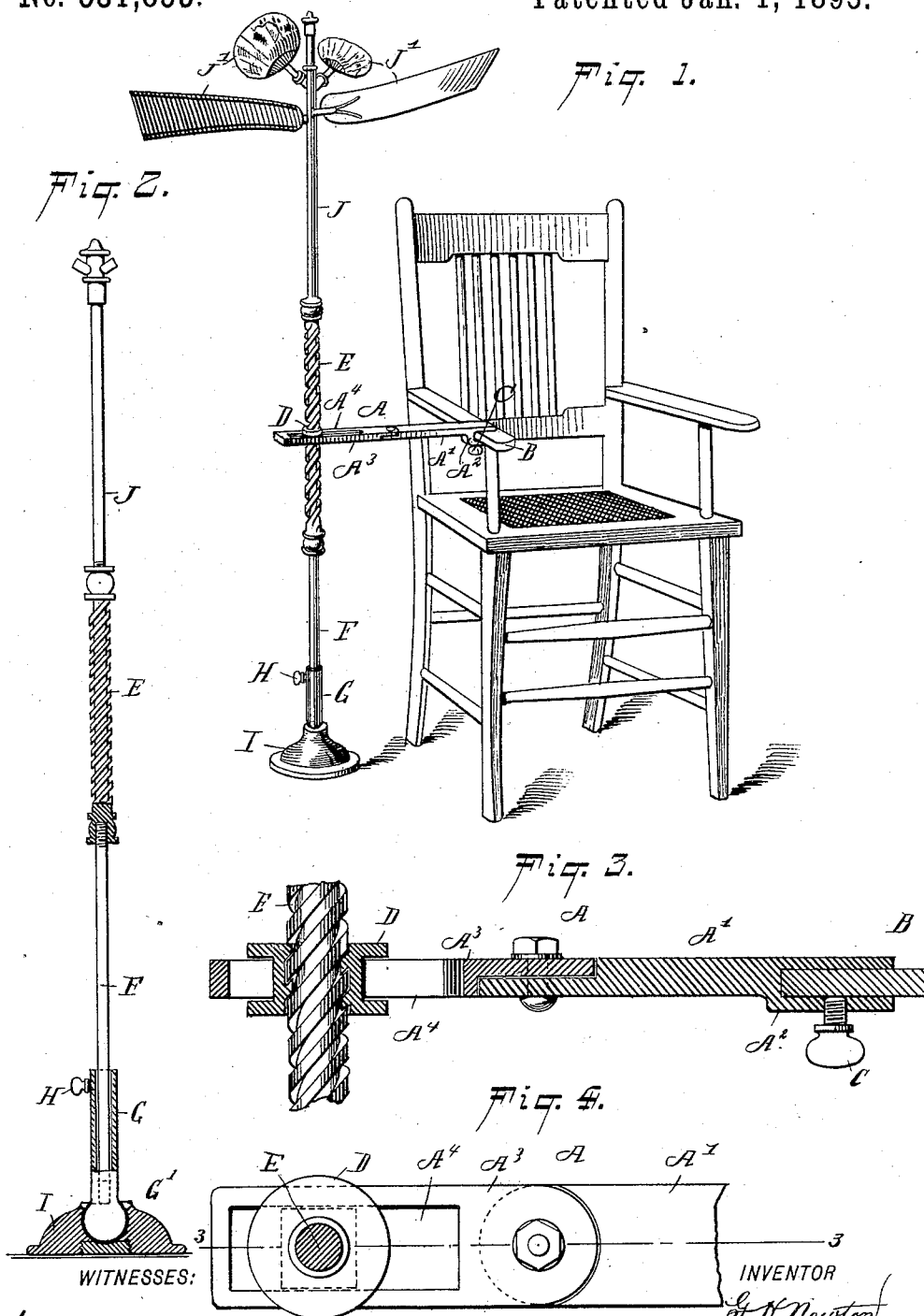


(No Model.)

G. H. NEWTON.
FAN.

No. 531,853.

Patented Jan. 1, 1895.



UNITED STATES PATENT OFFICE.

GEORGE H. NEWTON, OF MONSON, MASSACHUSETTS.

FAN.

SPECIFICATION forming part of Letters Patent No. 531,853, dated January 1, 1895.

Application filed August 9, 1894. Serial No. 519,907. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. NEWTON, of Monson, in the county of Hampden and State of Massachusetts, have invented a new and Improved Fan, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved fan, more especially designed as an attachment to chairs, to permit the occupant of a chair to conveniently fan himself by imparting movement to the chair.

The invention consists of an arm adapted to be fastened to a chair, and carrying a nut engaging a screw rod mounted to turn and provided with fan wings.

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

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

Figure 1 is a perspective view of the improvement as applied. Fig. 2 is an enlarged sectional side elevation of the improvement. Fig. 3 is an enlarged sectional side elevation of the arm, nut and screw rod, the section being taken on the line 3—3 of Fig. 4, and Fig. 4 is a plan view of the same.

The improved fan is provided with an articulated arm A, having its inner section A' formed with a fork A² adapted to engage the arm or seat of a chair B, the said fork being fastened in place on the arm or seat by a set screw C, so that the articulated arm extends outwardly to one side of the chair, as plainly shown in Fig. 1. The outer section A³ of the articulated arm A is formed with a longitudinally-extending slot A⁴, in which is mounted to slide loosely a nut D, engaging a screw rod E, fastened at its lower end on a rod F held vertically adjustable in a sleeve G, by a setscrew H. On the lower end of the sleeve G is formed a ball G', engaging a correspondingly-shaped socket in the base I, resting on the floor, and made sufficiently heavy to readily maintain its position. From the upper end of the screw rod E, extends upwardly a rod J, carrying one or a series of fan wings J', of any approved construction.

It will be seen that when the several parts are in the position illustrated in Fig. 1, and the occupant of the chair C gives a rocking motion to the latter, then the articulated arm A will move up and down with the chair, and the nut D will move up and down on the screw rod E, so that a rotary motion is given to the latter, and consequently to the rods F and J, and the wings J', so that the air is agitated and the occupant of the chair is fanned.

It will be seen that by having the rod F vertically adjustable in the sleeve G, it enables the user to readily bring the screw rod E into the desired position relative to the height of the chair on which the device is to be used.

It will also be seen that by forming a ball and socket joint between the base I and sleeve J, the rod F with the screw rod E, will readily swing according to the rocking motion of the chair, and as the arm A is articulated, no binding of the nut D in the screw rod E will take place.

The device is very simple and durable in construction, and can be cheaply manufactured and applied to either an arm chair, rocking chair, &c.

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

1. A fan comprising an articulated arm adapted to be fastened to a chair, a nut fitted to slide in the outer section of the said articulated arm, a screw rod mounted to turn and engaging the said nut, and fan wings supported by the said screw rod, substantially as shown and described.

2. A fan, comprising an articulated arm adapted to be fastened to a chair, a nut fitted to slide in the outer section of the said articulated arm, a screw rod mounted to turn and engaging the said nut, fan wings supported by the said screw rod, and a base piece connected by a ball and socket joint with the said screw rod, substantially as shown and described.

3. A fan, comprising an articulated arm adapted to be fastened to a chair, a nut fitted to slide in the outer section of the said articulated arm, a screw rod mounted to turn and engaging the said nut, fan wings supported by the said screw rod, a base piece, and a

sleeve formed with a ball mounted in the said base piece, the said screw rod being held vertically adjustable in the said sleeve; substantially as shown and described.

- 5 4. A fan comprising a screw-rod having its lower end adapted to be pivotally connected to a support, an arm adapted to be secured

to a chair, and a nut movably mounted on the arm and engaging said screw-rod, substantially as set forth.

GEORGE H. NEWTON.

Witnesses:

CHARLES L. GARDNER,
NORMAN W. CHANDLER.