

A. ADAMO.
ELECTRIC FAN.
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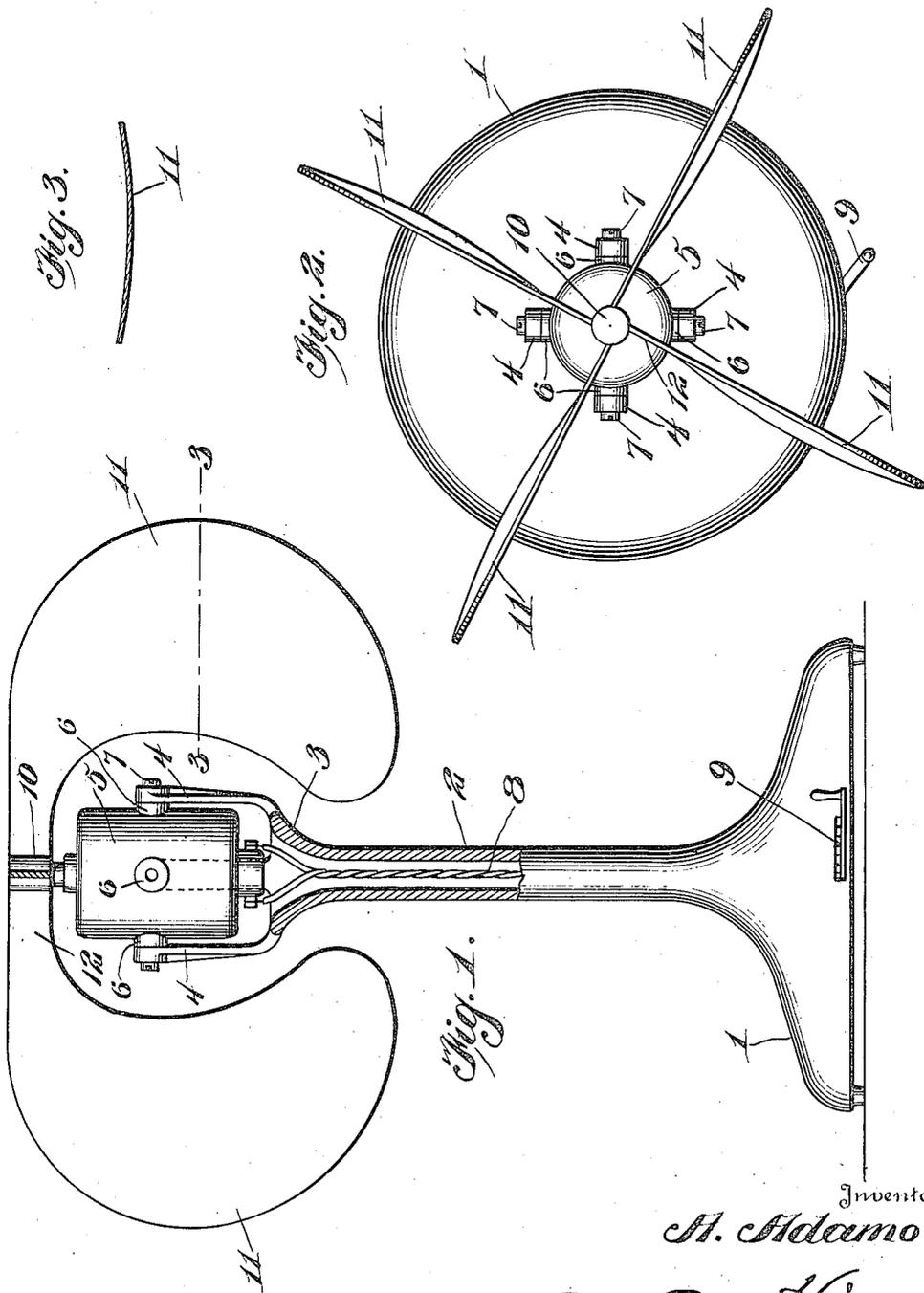


Fig. 1.

Fig. 2.

Fig. 3.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANGELO ADAMO, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Electric Fans, of which the following is a specification.

This invention relates to improvements in electric fans of the portable type, the object of the invention being to provide a fan which will deliver a current of air from all sides or to all quarters of a room or apartment, whereby a thorough circulation of air may be secured throughout all portions of a room without requiring the fan to be oscillated or revolved in the ordinary manner.

A further object of the invention is to provide a fan embodying a novel construction of stand, arrangement of the motor, and form and arrangement of the fan blades with respect to the stand and motor, whereby the motor shaft will be vertically disposed and the fans grouped to rotate in a horizontal plane about the same as an axis, to deliver air uniformly around the stand to all portions of a room or apartment.

A still further object of the invention is to provide fan blades of novel form, whereby the air will not only be moved in a circular path but also forced outwardly for a reliable and efficient circulation.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:—

Figure 1 is a side elevation, with parts in section, of an electric fan embodying my invention.

Fig. 2 is a top plan view of the same.

Fig. 3 is a section through one of the fan blades taken on the line 3—3 of Fig. 1.

Referring to the drawing, my improved fan comprises a stand embodying a base 1 and an upright hollow post or pedestal 2, which post or pedestal 2 terminates at its upper end in a flared portion 3 having annular series of equidistantly spaced arms 4. The base 1 may be of proper construction to rest upon a table or other support, or to be mounted upon a bracket or other fixture.

The arms 4 provide a cage or inclosure for the reception of the lower portion of an

electric motor 5, having screw threaded bosses 6 arranged in alinement with openings in the upper ends of the arms 4, through which openings and into which threaded bosses extend screws or other similar fastenings 7 whereby the fan is detachably mounted in position. Extending through the hollow pedestal 2 are conductors 8, connected at their upper ends to the binding posts of the motor and adapted to be connected at their lower ends through a suitable switch device 9 with a source of current supply whereby current may be supplied to the motor.

The motor shaft 10 projects vertically above the upper end of the motor casing and carries at its upper end an annular series of fan blades 11. Each of these blades is substantially crescent-shaped and is provided at its upper end with an inwardly extending shank 12 which is suitably secured to the motor shaft 10. The blades depend from the motor shaft and are grouped about the motor and upper portion of the pedestal 2, their concave edges facing the motor and pedestal, so as to allow ample clearance while enabling the blades to be arranged in a compact manner to avoid undue projection.

Each blade is dished, or of concave-convex form, and has its concave side facing in its direction of rotation, and preferably the blades are also bent or twisted downwardly and outwardly toward their free ends, so that as the blades rotate they will gather and compact the air on their concave sides and throw the air outwardly at an angle in all directions as they revolve.

By the construction described a simple form of fan is provided in which the fan blades are mounted to rotate in a horizontal plane about their support, thus enabling the fan to be mounted upon the upper end of a fixed or stationary support, which may extend upwardly from the floor, rest upon a table, or be placed in the center or any other portion of a room, to ventilate all portions of the room and to supply currents of air in all directions. The fan will thus be found superior under many conditions to fans of ordinary type in which the fan blades rotate in a vertical plane upon a horizontal shaft and are disposed at one side of their support, requiring the fan to be oscillated or other-

wise moved, in addition to being rotated on its axis, in order to distribute the air to any effective degree.

Having described my invention, I claim:

5 A fan comprising an upright support having at its upper end an annular series of arms, a motor arranged between and supported by said arms, said motor having its

shaft projecting upwardly therefrom, and an annular series of dished and curved blades of crescent shape secured at their upper ends to the motor shaft and depending therefrom and grouped about the motor and upper end of the support. 10

In testimony whereof I affix my signature. 15
ANGELO ADAMO.