

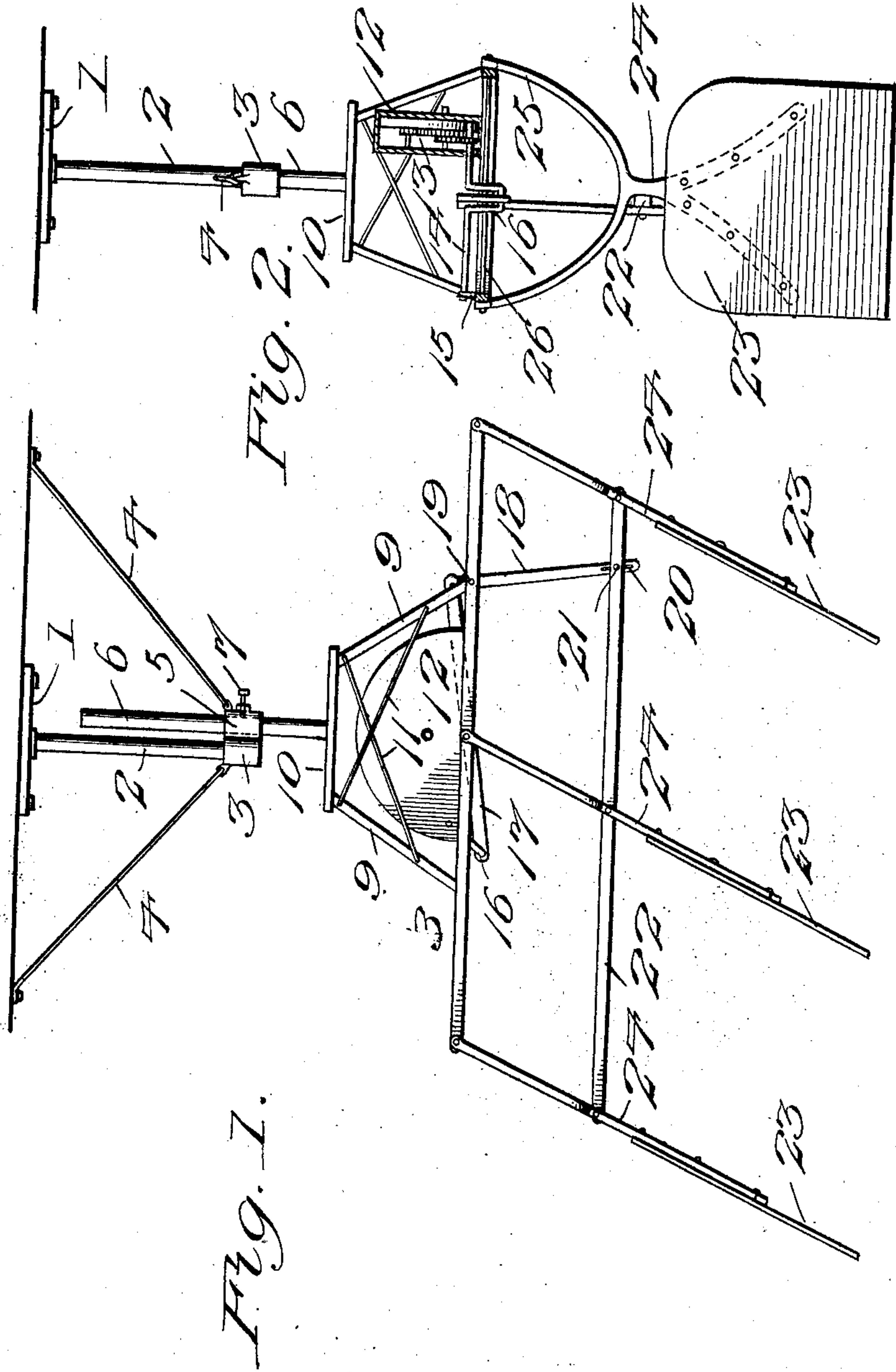
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A. POCHYLA.

FAN.

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Witnesses

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLPH POCHYLA, a citizen of the United States of America, residing at Ellinger, in the county of Fayette and State of Texas, have invented new and useful Improvements in Fans, of which the following is a specification.

This invention relates to an automatic fly fan or brush, the object of the invention being to provide fan mechanism which is simple of construction, efficient in use, and comparatively inexpensive of production, and one wherein the fan blades or brushes are adapted to be easily driven by spring motor mechanism and are vertically adjustable to operate at any desired height above a table or other object.

The preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the improved automatic fan, and Fig. 2 is a cross-sectional view thereof.

Referring now more particularly to the drawings, the numeral 1 designates a bracket adapted to be suitably secured to a ceiling or other support and carrying a downwardly-projecting fixed stem 2. The stem 2 has secured thereto at its lower end a bearing member 3, reinforced by suitable braces 4, extending from the wall or support and carrying a guide sleeve or collar 5, adapted to receive an adjustable supporting stem or shank 6, said collar or sleeve carrying a set-screw 7 for securing the sleeve or shank in adjusted position.

The fan mechanism proper comprises a supporting-frame 8, preferably of oblong rectangular form, but which may be of any preferred shape and construction. The side bars of this frame are connected by arms 9 to a superposed carrier-head 10, to which the adjustable stem 6 is attached, the arms 9 being stayed and reinforced by connecting cross-braces 11. Suitably mounted upon the frame 8 is a casing 12, containing spring-driven motor mechanism 13, in gear with the fan-driving shaft 14, which is journaled at one end in said casing and at its opposite end in a bearing-bracket 15, carried by one of the side

arms of the frame. The shaft 14 is provided with a crank 16, to which is connected one end of a pitman 17, the opposite end of the pitman being operatively connected to a connecting-rod 18. The connecting rod or member 18 is in the form of a vibrating arm, which is connected at its upper end to the pitman and journaled adjacent thereto to swing in a direction longitudinally of the frame 8 upon a supporting-rod 19, extending across and fixed at its ends to the side bars of the frame. At its lower end the arm 18 is formed with a slot 20 to receive a connecting-pin 21 on a bar 22, disposed below the frame 8 and in parallel relation therewith.

The fan blades or brushes 23 are suitably secured to the lower ends of hangers 24, having yoked upper ends 25, journaled at their upper ends upon the projecting extremities of transverse pivot-rods 26, carried by the frame, thus adapting the blades or brushes to swing upon the frame. The several hangers 24 are pivotally connected for simultaneous movement between the blades and their yoked ends to the connecting-bar 22.

When the motor 13 is in operation, it will be apparent that motion will be communicated to the rocking arm 18 through the medium of the pitman 17, which will transfer motion to the bar 22, and thereby swing the blades or brushes 23 back and forth, the construction of the mechanism being such as to secure a free and easy action of said blades or brushes. The fan mechanism may be adjusted to operate at any desired height above a table or other object by adjusting the stem 6 in the guide 5, as will be readily understood.

Brushes of any suitable construction may be substituted for the fan-blades.

Having thus described the invention, what is claimed as new is—

In an automatic fly fan or brush, the combination of an elongated supporting-frame having side bars, hangers having yoked portions embracing the bars, rods passing through and staying the bars and pivotally connecting the yokes thereto, fan-blades carried by the hangers, a connecting-bar pivoted to the hangers between the yoked portions

and blades thereof to adapt said hangers to swing in unison, a motor supported upon the frame, a transverse crank-shaft actuated by said motor, a pitman and a connecting-rod 5 pivotally connected at one end to the pitman and having a slot-and-pin connection at its opposite end with the connecting-bar.

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

ADOLPH POCHYLA.

Witnesses:

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