J. A. FOWLER.

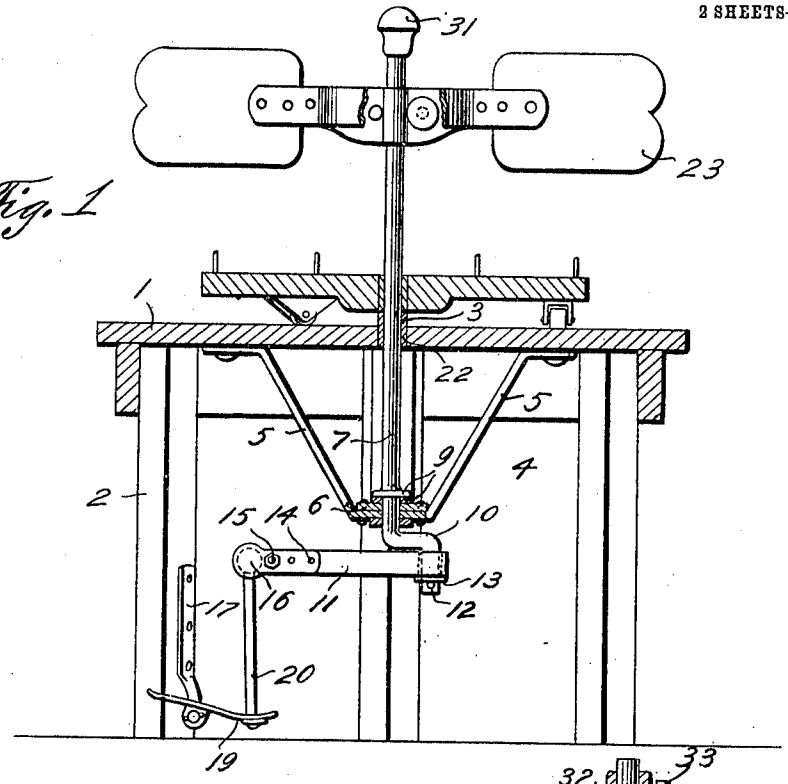
TABLE FAN.

APPLICATION FILED NOV. 1, 1909.

956,068. Patented Apr. 26, 1910.

2 SHEETS—SHEET 1.

Fig. 1



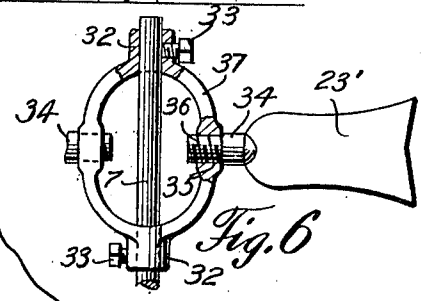


Fig. 6

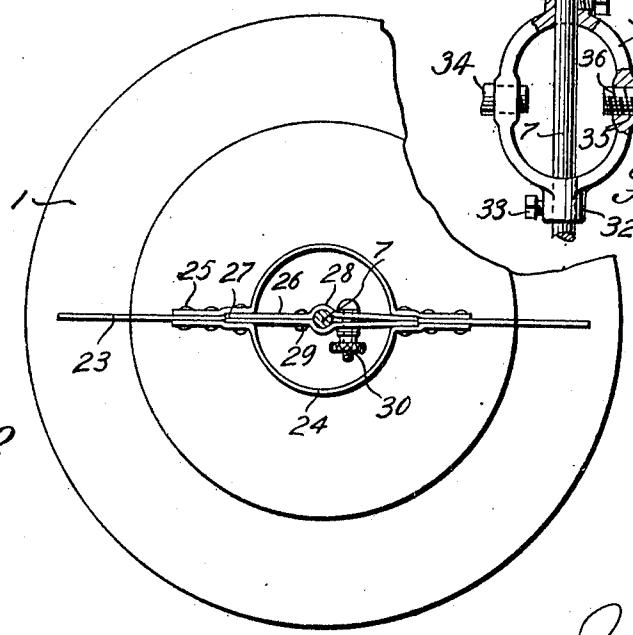


Fig. 2

Witnesses

E. Larson

Charles S. Wilson

Inventor

J. A. Fowler,

By Geller & Cobb

Attorneys

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

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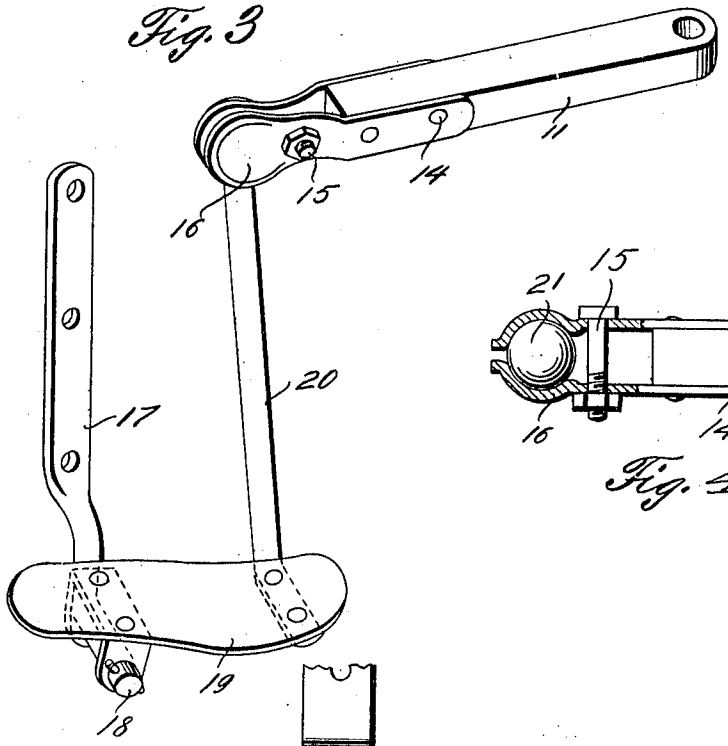
2 SHEETS—SHEET 2.

Fig. 3



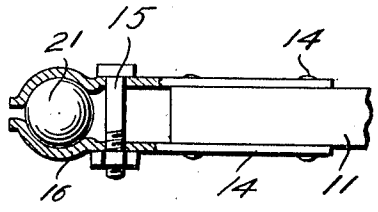


Fig. 4.

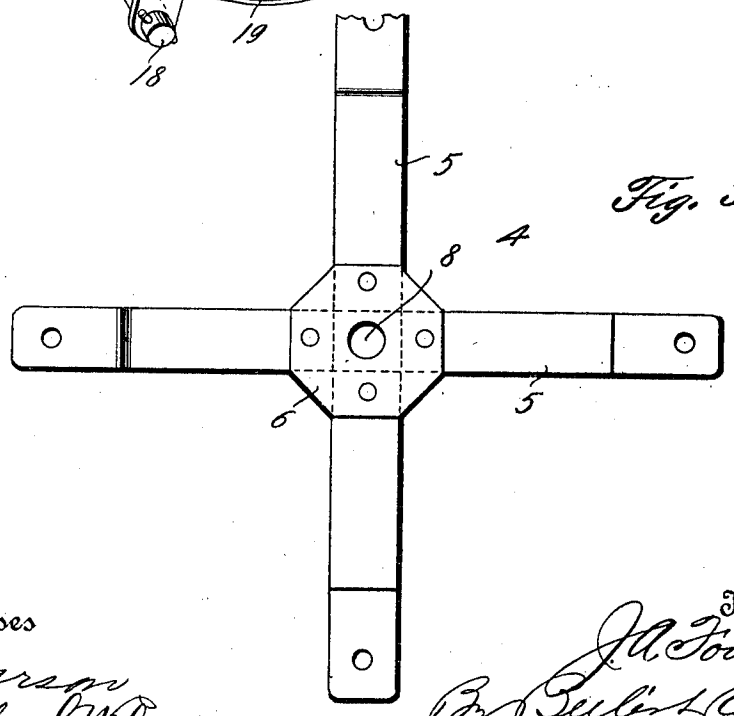


Fig. 5

Witnesses

E. Larson

Charles S. Wilson

Inventor

J. A. Fowler,

By Bullock & Cobb

Attorneys

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES A. FOWLER, OF GLENALLEN, MISSOURI.

TABLE-FAN.

956,068. Specification of Letters Patent. Patented Apr. 26, 1910.

Application filed November 1, 1909. Serial No. 525,801.

To all whom it may concern:

Be it known that I, JAMES A. FOWLER, a citizen of the United States, residing at Glenallen, in the county of Bollinger and State of Missouri, have invented certain new and useful Improvements in Table-Fans, of which the following is a specification.

This invention relates to tables and is designed more particularly to provide a centrally disposed rotating fan, said fan being adapted to cool the atmosphere surrounding the table and drive all insects from the immediate locality thereof.

Among other objects this invention is constructed in such a manner that it may be operated by the foot of one of the occupants of the table with little or no exertion.

With the above and other objects in view this invention consists in the construction, combination, and arrangement of parts all as hereinafter more fully described, specifically claimed, and illustrated in the accompanying drawings, in which:

Figure 1 is a vertical section of a table provided with my improved fan; Fig. 2 is a plan view of the fan showing the means whereby the same is secured to the fan shaft; Fig. 3 is a detail perspective view of the treadle, link, and pitman; Fig. 4 is a sectional view of the ball and socket, Fig. 5 is a plan view of the bracket, and Fig. 6 is a side elevation partly in section of a modified form of the means for securing the fan to the shaft.

The main body portion of the present invention comprises a table of any construction having the top 1 and the legs 2, the top being provided with a centrally disposed orifice 3. A bracket 4 is carried on the under surface of the table top and is so constructed that it is loosely provided with a series of angularly bent legs or supports 5 crossing each other at right angles and having a plate 6 riveted thereto at the junction of said supports 5, said supports and plate being pierced by the centrally disposed opening 8.

A vertical fan shaft 7 passes through the registering openings 3 and 8 in the table and bracket respectively and is retained therein by the bearing plate 9 secured thereto above the plate 6 of the bracket. A crank 10 is formed on the lower extremity of said shaft and has secured thereto a pitman 11, said pitman being retained on the crank by means of a nut and bearing plate 12 and 13 threaded on the outer terminal thereof. A socket comprising a pair of spring plates 14 having recesses formed therein is secured to the outer extremity of the pitman 11. A clamping screw 15 is disposed between the pitman and the recesses piercing the plates in such a manner that the same may be converged or diverged by adjusting the tension of the same. A treadle hanger 17 is secured to one of the legs 2 of the table and has a portion 18 bent laterally to which is pivotally secured a treadle 19. A link connection 20 is provided between the pitman 11 and the treadle, said connection having a ball 21 formed on its upper extremity adapted to be pivotally engaged in the recesses 16 between the plates 14 and being riveted at its opposite extremity to the treadle. A bearing 22 is provided in the orifice 3 of the table to prevent any wear upon the table and retain the shaft in a rigid position.

The fan comprises the blades 23 having the circular connecting members 24 engaging each side thereof and secured thereto by rivets 25. A pair of longitudinally extending strips 26 interposed between the blades and secured between the connecting members adjacent said blades by the rivets 27 are provided with a centrally disposed vertical opening 28 in which the shaft 7 is received; said shaft being retained between the plates by a rivet or screw 29 in one side thereof and the clamping bolt 30 on the other side of the shaft and in this manner devises a means whereby the vertical adjustment of the fan upon the shaft may be obtained. A cap 31 is threaded on the upper extremity of the shaft to present a finished appearance of the same.

It will readily be seen that upon applying power to the treadle 19 the pitman 11 will be reciprocated and as a result rotate the crank and shaft 10 and 7 respectively consequently rotating the fan.

The modification illustrated in Fig. 6 of the annexed drawings comprises an approximately elliptical frame having at each extremity of its transverse axis an interiorly threaded opening 35, and at each end of its longitudinal axis an opening 32. The shaft 7 is adapted to pass through the openings 32 and is retained therein by set screws 33 operating in the sides of said openings. The fans 23′ are provided with the shanks 34, the outer extremity of each of which is reduced and threaded and adapted to be

received in one of the threaded openings 35 of the frame 37.

Having thus fully described the invention what I claim as new and desire to secure by Letters Patent is:—

1. A device of the class described, comprising a table, a bracket secured on the under face of said table, said bracket and table having registering openings formed therein, a vertical fan shaft rotatably mounted in said openings and provided with bearing plates adjacent said bracket, a crank formed at the lower extremity of said fan shaft, said crank being connected by a pitman and link to a treadle supported by a hanger on one of the legs of the table, and a fan secured to the upper extremity of said shaft comprising a plurality of blades connected together by semi-circular bands, said bands having clamping strips disposed therebetween, and means whereby said clamping strips may be adjusted to engage said shaft.

2. A device of the class described comprising, in combination, a table, a shaft rotatably mounted in said table, means for rotating said shaft, and a fan secured to the upper extremity of said shaft comprising a plurality of blades secured together by clamping bands, each of said bands extending semi-circularly about said shaft, and clamping strips interposed between said bands, said clamping strips being rigidly secured on one side of said shaft and provided with a transverse adjustment on the other side.

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

JAMES A. FOWLER.

Witnesses:

ROSAMORE SMITH,

WM. R. LONDON.