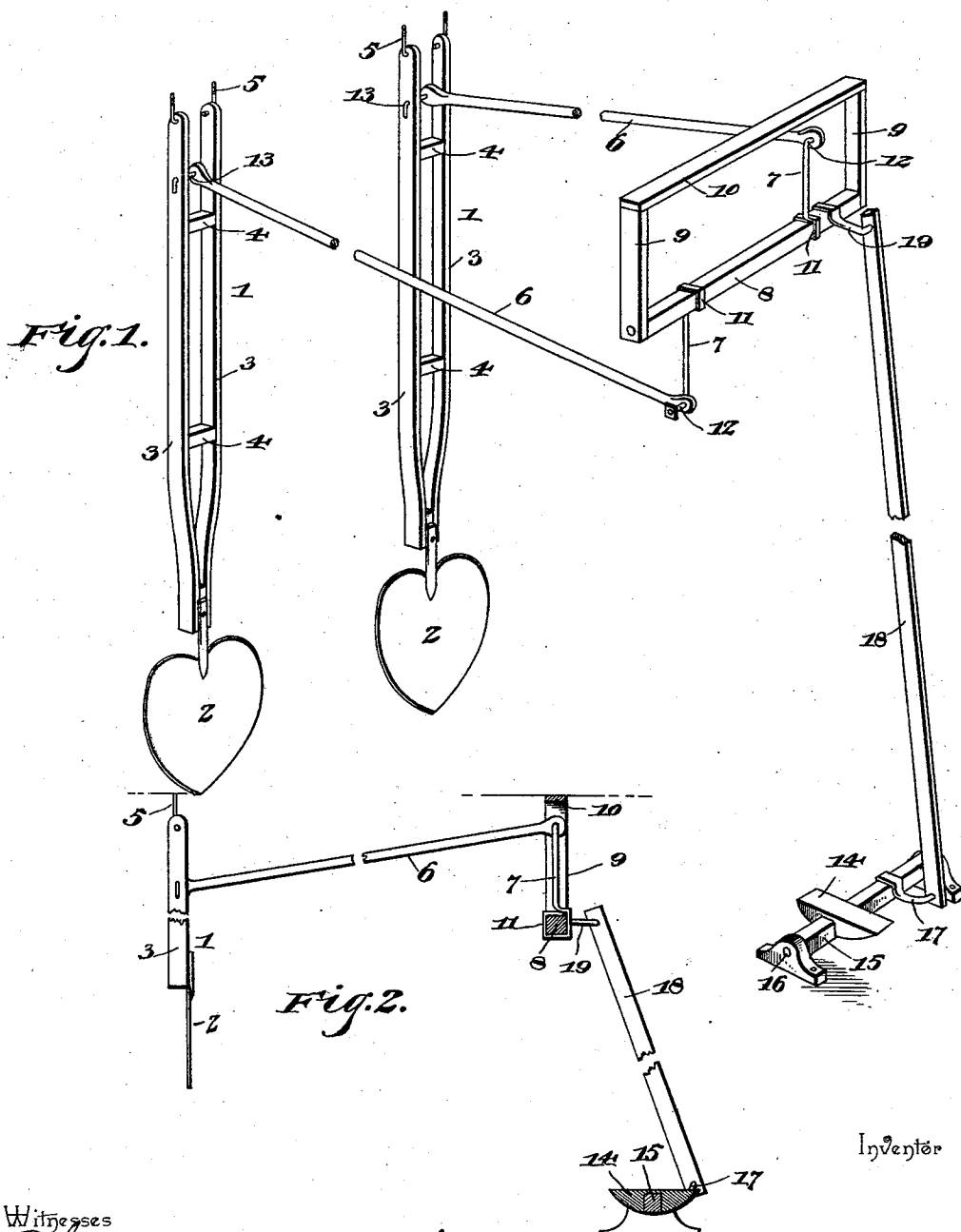


(No Model.)

G. B. SMITH.  
FLY FAN.

No. 537,243.

Patented Apr. 9, 1895.



Witnesses  
B. S. Ober,  
J. M. Piley

By his Attorneys George B. Smith,  
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Inventor

# UNITED STATES PATENT OFFICE.

GEORGE B. SMITH, OF CULLEOKA, TENNESSEE.

## FLY-FAN.

**SPECIFICATION** forming part of Letters Patent No. 537,243, dated April 9, 1895.

Application filed May 8, 1894. Renewed February 19, 1895. Serial No. 538,984. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE B. SMITH, a citizen of the United States, residing at Culleoka, in the county of Maury and State of Tennessee, have invented a new and useful Fly-Fan, of which the following is a specification.

The invention relates to improvements in fly fans.

The object of the present invention is to improve the construction of fly fans, and to provide a simple and inexpensive one, which may be conveniently operated.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings—Figure 1 is a perspective view of a fly fan embodying the invention. Fig. 2 is a longitudinal sectional view.

Like numerals of reference indicate corresponding parts in both figures of the drawings.

1—1 designate a pair of depending oppositely or reversely oscillating fan carrying arms, each of which is provided at its lower end with a fan 2, of any desired construction, and is composed of similar side bars 3, which have converging lower portions and parallel upper portions, spaced by cross-bars 4. The upper ends of the side bars are hinged connected to, and depend from L-shaped hangers 5, having their shanks threaded, and adapted to be readily screwed into a ceiling or other suitable support. The oscillating arms are designed to be disposed over a table, and are connected near their upper ends by bars 6, which are attached to oppositely disposed arms 7, of a rock-shaft 8, and the latter is journaled at its ends in depending sides 9 of the hanger frame 10, which is secured to the ceiling or other suitable support. The arms 7 are provided at their inner ends with rectangular or polygonal loops 11, conforming to the configuration of the shaft 8, and they are provided at their outer ends with integral horizontally disposed journals or pins 12, which pass through perforations of the adjacent ends of the connecting bars 6.

The other ends of the connecting bars are pivoted by transverse rods 13, between the sides 3 of the oscillating arms 1.

The shaft 8 is rocked by a treadle 14 mounted on a shaft 15, which is journaled in suitable bearings 16, and which carries an arm 17, constructed similarly to those before described, and provided at its inner end with a polygonal loop to receive the shaft 15, and having a journal or pin at its outer end. The arm 17 has its pin passing through a perforation of the lower end of a vertical connecting rod 18, which has its upper end perforated and connected with the shaft 8, by an arm 19 extending horizontally from the shaft, provided at its inner end with a shaft embracing loop, and having at its outer end an integral pin or journal. As the treadle is operated, and the treadle shaft rocked, the arms which carry the fans are reversely oscillated to produce a fanning action.

It will be seen that the fly fan is simple and comparatively inexpensive in construction, that the oscillating fan carrying arms may be readily disposed over a table or the like, and that the treadle shaft may be located some distance from the arms, and arranged as desired.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

1. The combination of the reversely oscillating arms depending from a suitable support, a depending hanger frame, a polygonal shaft journaled on the hanger frame, oppositely disposed arms extending upward and downward from the shaft and provided at their inner ends with polygonal shaft embracing loops and having at their outer ends horizontal pins, connecting bars extending from the pins of the arms to the oscillating arms, a polygonal treadle shaft carrying the treadle and located below the said shaft, arms 17 and 19 extending outward in the same direction from said shaft and provided with shaft embracing loops, and a vertical connecting bar

attached to the arms 17 and 19 and communicating motion from the treadle shaft to the other shaft, substantially as described.

2. The combination of the depending L-shaped hangers arranged in pairs, the reversely oscillating depending fan carrying arms composed of similar sides hinged at their upper ends to said hangers, a hanger frame, a polygonal shaft 8 journaled in the hanger frame and provided with opposite extending arms projecting upward and downward from it, connecting bars extending from said arms

of the shaft to the fan carrying arms, a treadle carrying shaft located below the shaft 8, the arms 17 and 19 extending from said shafts, and a vertical bar connecting the arms 17 and 19, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE B. SMITH.

Witnesses:

M. B. SMISEN,  
J. L. BEATY.