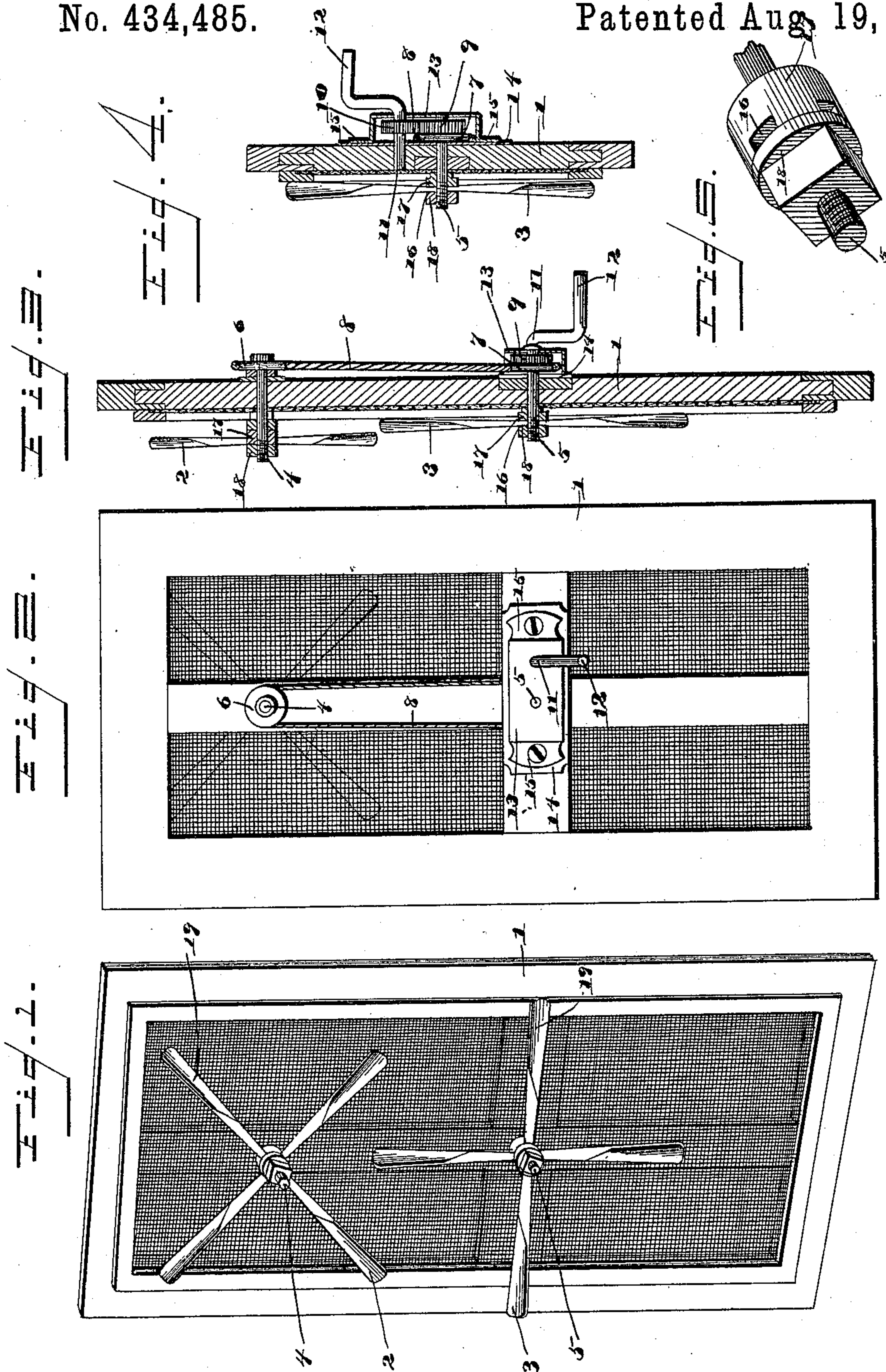


(No Model.)

G. W. SLAWSON.
SCREEN DOOR.

No. 434,485.

Patented Aug 19, 1890.



Witnesses

Samuel Ker.

J. P. Riley

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UNITED STATES PATENT OFFICE.

GEORGE W. SLAWSON, OF DAVENPORT NEBRASKA.

SCREEN-DOOR.

SPECIFICATION forming part of Letters Patent No. 431,485, dated August 19, 1890.

Application filed January 21, 1890. Serial No. 337,642. (No model.)

To all whom it may concern.

Be it known that I, GEORGE W. SLAWSON, a citizen of the United States, residing at Davenport, in the county of Thayer and State of Nebraska, have invented a new and useful Screen-Door, of which the following is a specification.

The invention relates to improvements in screen-doors.

The object of the present invention is to provide for screen-doors and the like a fan or brush to drive flies and insects therefrom previous to opening the door.

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 door provided with a fan constructed in accordance with this invention. Fig. 2 is a side elevation. Fig. 3 is a vertical sectional view. Fig. 4 is a horizontal sectional view. Fig. 5 is a detail perspective view of the clamping-disks.

Referring to the accompanying drawings, 1 designates a screen-door which is provided upon its outer face with a pair of fans 2 and 3, that are mounted upon shafts 4 and 5. The shafts 4 and 5 are provided with sheaves or pulleys 6 and 7, that are arranged upon the inside of the door and connected by a belt 8 in order to communicate the motion of the lower shaft to the upper shaft and rotate the fans simultaneously. The lower sheave or pulley 7 has formed integral with it a pinion 9, that meshes with a cog-wheel 10. The cog-wheel 10 is mounted rigidly upon a crank-shaft 11, which is provided with an integral crank-handle 12. The lower sheave or pulley 7 and the cog and the pinion are housed in a casing 13, which is secured upon a base-plate 14, and to the cross-bar of the door by screws which pass through perforations of ears 15, that are formed by the ends of the casing.

The fans 2 and 3 are composed of blades 19, that have their inner adjacent ends arranged in radial recesses 16 of a disk 17, and the blades are held in the recesses by a disk 18, which is provided with a central threaded opening that engages the threaded end of

the shaft and is adapted to be serewed up against the disk 16, that is rigidly secured to said shaft.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. The combination, with a screen-door, of the rotary fans mounted upon suitable shafts and arranged upon the outside of the door and extending over the face of the same and being close thereto and composed of radial blades, and the operating mechanism arranged upon the inside of the door, substantially as described.

2. The combination, with a screen-door, of the shafts mounted therein, the rotary fans arranged upon the outside of the door and extending over the outer face of the same and being close thereto and mounted upon the shafts and composed of radial blades, the sheaves secured to the shafts and arranged on the inside of the door, and the operating mechanism, substantially as described.

3. The combination, with a screen-door, of the shafts 4 and 5, the rotary fans mounted upon shafts and arranged upon the outside of the door, and extending over the outer face of the same and being close thereto and comprising the disk 16, provided with radial recesses, the blades 19, arranged in the recesses and extending out radially, and the disk 18, securing the blades in said recesses, the sheaves, and the operating mechanism, substantially as described.

4. The combination, with a screen-door, of the shafts 4 and 5, the rotary fans mounted upon said shaft and extending over the outer face of the door and being close thereto and provided with radial blades, the sheave 6, secured to the shaft 4, the sheave 7, secured to the shaft 5 and provided with an integral pinion 9, the crank-shaft, and the cog-wheel fixed to the crank-shaft and meshing with the pinion 9, substantially as described.

5. The combination, with a screen-door, of the shafts 4 and 5, the rotary fans secured to the shafts and extending over the outer face of the door and being close thereto and provided with radial blades, the sheaves 6 and 7,

the pinion 9, secured to the sheave 7, the crank-shaft provided with an integral crank-handle, the cog-wheel 10, fixed to the crank-shaft and meshing with the pinion 9, and the
5 casing forming a housing for the cog-wheel and pinion and the adjacent sheave, substantially as described.

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

GEORGE W. SLAWSON.

Witnesses:

B. W. SHOWALTER,
HENRY RITZEN.