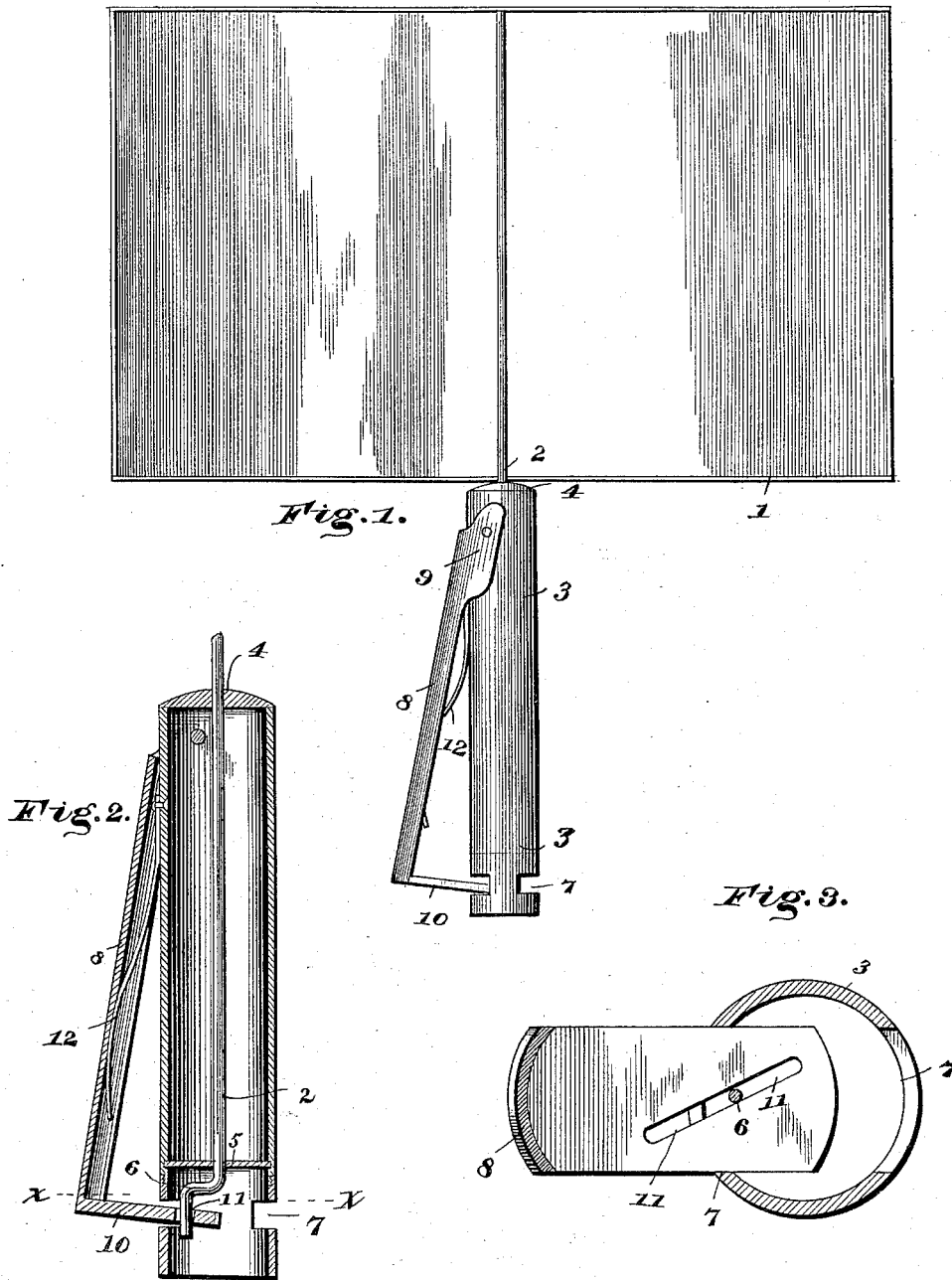


(No Model.)

H. C. DURGIN.
REVOLVING HAND FAN.

No. 493,915.

Patented Mar. 21, 1893.



Witnesses

J. Ulke, Jr.

Chas. E. Ayer.

By his Attorneys,

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UNITED STATES PATENT OFFICE.

HENRY C. DURGIN, OF HARTFORD, CONNECTICUT.

REVOLVING HAND-FAN.

SPECIFICATION forming part of Letters Patent No. 493,915, dated March 21, 1893.

Application filed June 21, 1892. Serial No. 437,508. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. DURGIN, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented a new and useful Revolving Hand-Fan, of which the following is a specification.

This invention relates to revolving hand-fans, and consists in the construction and novel combination and arrangement of parts as will be more fully hereinafter described and claimed.

The object of this invention is to provide a fan which may be revolved by squeezing the handle thereof and thereby providing a movement of the fan proper without the necessary tiresome act of operating the arm.

In the drawings: Figure 1 is a side elevation on an enlarged scale of the device shown in Fig. 1. Fig. 2 is a sectional view of the handle. Fig. 3 is a sectional view taken in a horizontal plane on the line $x-x$, Fig. 2.

Similar numerals of reference indicate corresponding parts in the several views of the drawings.

Referring to the drawings, the numeral 1 designates the fan proper, which may be of any form and suitably ornamented, and extending centrally therethrough is a spindle 2, which projects downward through a cylindrical handle 3. The upper end or head 4 forms one point of bearing for the said spindle 2, and in the lower portion of the handle 3 is a transverse plate or support 5, forming another bearing for the said spindle. The lower end of the spindle 2 is bent into a crank, as at 6, and the lower portion of the said handle 3 is transversely slotted, as at 7. Hinged to the upper portion of the handle 3 is an arm 8, whose upper end 9 partially embraces the said handle in the form of a yoke, and the lower end thereof is arranged at an angle, as at 10, and provided with a diagonal slot 11 in which the lower or crank-end 6 of the spindle 2 is mounted and adapted to have movement. Between the said handle 3 and the arm 8 there is mounted a spring 12, which tends to normally throw the said arm outward from the said handle.

In operation the handle 3 is grasped by the hand of the person using the fan, and the arm

8 is pressed inward against the handle, and in this movement the lower angular portion 10 travels through the slots 7, and the lower crank-end 6 of the spindle 2 moves in the diagonal slot 11 and said spindle is thereby rotated by the alternate inward and outward movements of the arm 8. It will be seen that the outward movement of the arm 8 is automatic through the medium of the spring 12, and that in operating the device it is only necessary to press the said arm inward and release it when it will return to its normal outward position. The device may be slightly modified in many particulars, and it will be seen that the tiresome movement necessary in operating a fan as now commonly used is avoided.

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

1. In a revolving hand-fan, the combination with the fan proper, a spindle connected thereto, a hollow handle into which said spindle extends, an arm pivoted to said handle and having a spring bearing thereagainst, and a lower angular end with a diagonal slot therein adapted to engage said spindle, substantially as described.

2. In a revolving hand fan, the combination of the fan proper, a vertically-disposed spindle on which it is mounted, a hollow handle through which the said spindle extends and is journaled, an arm pivoted to the upper portion of the said handle and having a spring bearing thereagainst, and a lower angular end with a diagonal slot therein adapted to engage said spindle and formed integral with the lower end of said arm, the lower end of the said spindle being formed with a crank, and the lower portion of the handle with a slot in opposite sides, through which the angular end of said arm has movement, whereby pressure exerted on the said arm will cause a revolution of the fan, 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.

HENRY C. DURGIN.

Witnesses:

A. E. DURGIN,
C. T. LORD.