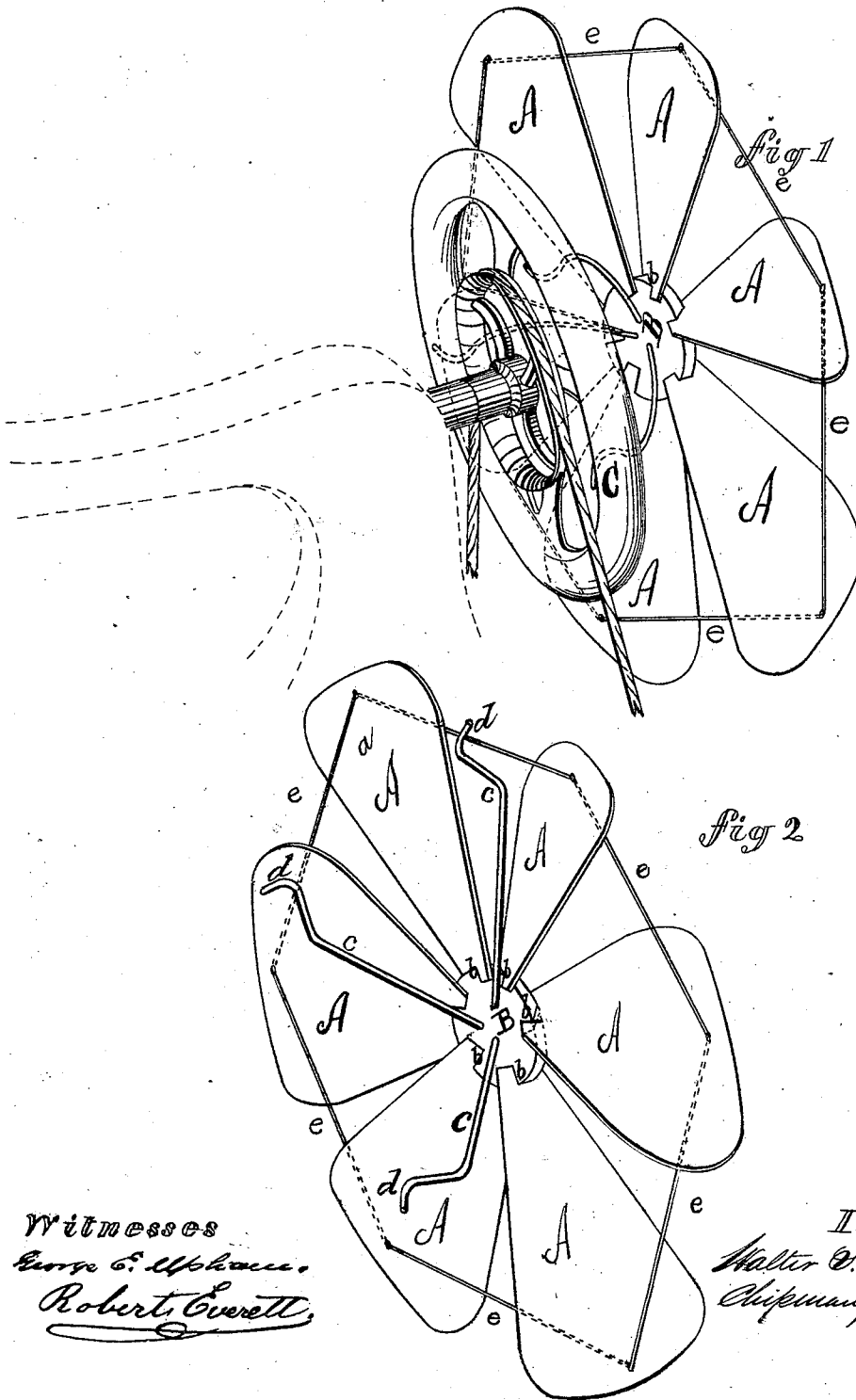


W. S. ELLIOTT.

Sewing-Machine Fan Attachments.

No. 151,368.

Patented May 26, 1874.



Witnesses

George C. Upham,

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UNITED STATES PATENT OFFICE.

WALTER S. ELLIOTT, OF GOSHEN, NEW YORK.

IMPROVEMENT IN SEWING-MACHINE FAN ATTACHMENTS.

Specification forming part of Letters Patent No. **151,368**, dated May 26, 1874; application filed April 11, 1874.

To all whom it may concern:

Be it known that I, WALTER S. ELLIOTT, of Goshen, in the county of Orange and State of New York, have invented a new and valuable Improvement in Fans for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a view of my fan as attached, and Fig. 2 is an elevation of the same.

This invention consists in a combination of a rotary fan with a fly-wheel of a sewing-machine, by which I force currents of air to the operator sitting at the machine; also, in a device by which the fan is readily attached to the fly-wheel of a sewing-machine, or detached therefrom when not needed, as will be hereinafter explained.

In the annexed drawings, A A designate fan-blades, suitably feathered, for a purpose hereinafter to be explained; B, the hub, to which these blades are attached, either by means of the slots *b b*, cut diagonally across the periphery thereof, or in any other suitable manner. *c c c* designate spring-clamps, which connect the hub B by means of hooked ends *d d* with the rim of said wheel C, or in any other suitable manner. *e* designates a brace, connecting each blade of the fan with the other, thereby securing a degree of rigidity to the resistance of the air, and greatly strengthening said blades, which I prefer being constructed of suitable light and rigid material,

since in doing this I greatly diminish the amount of power necessary to be applied to actuate the machine, and thus spare the operator any unnecessary labor.

The blades of my fan are so arranged as to have their flat surfaces partly directed toward the operator, and it is obvious from the drawings, Fig. 1, that when an operator actuates a machine to which my fan has been applied, the motion given to the treadle is communicated to the band or other suitable wheel, on which my fan is fixed, and thus imparts a rapid revolving movement to it, which, owing to the position of the air-forcing surfaces of the blades A A, causes currents of refreshing air to blow upon the operator. It will also be seen that I am enabled to utilize the wheel C as a support for a fan, without interfering with the free working of the machine, and that I can readily detach the fan from the machine by simply compressing the spring-clamps.

What I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the fly-wheel C of a sewing-machine, a rotary fan constructed and arranged substantially as and for the purpose set forth.

2. A rotary fan having spring-clamps *c* and hooked ends *d*, which connect the hub B of the fan with the rim of the fly-wheel C, substantially as and for the purpose mentioned.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WALTER SCOTT ELLIOTT.

Witnesses:

E. DIKEMAN,
H. SINSABAUGH.