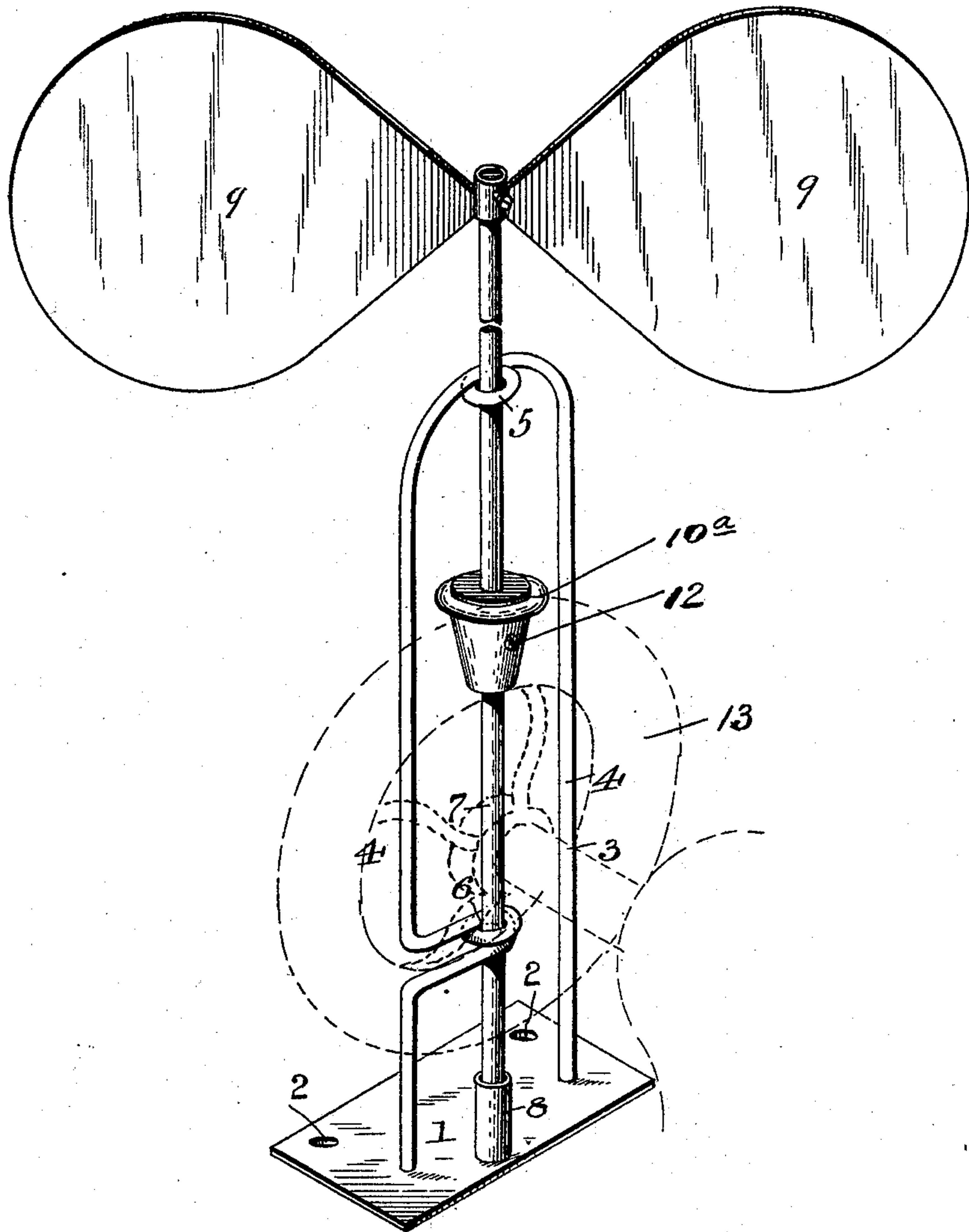


(No Model.)

G. W. BUSH.
FAN ATTACHMENT FOR SEWING MACHINES.

No. 580,764.

Patented Apr. 13, 1897.



Witnesses:
Frank L. Ourand.
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UNITED STATES PATENT OFFICE.

GEORGE W. BUSH, OF FRANKFORT, KENTUCKY, ASSIGNOR TO NORBOUR P. WISE, OF SAME PLACE, AND ELIAS B. WRENN, OF LEXINGTON, KENTUCKY.

FAN ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 580,764, dated April 13, 1897.

Application filed November 30, 1896. Serial No. 613,975. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. BUSH, a citizen of the United States, and a resident of Frankfort, in the county of Franklin and State of Kentucky, have invented certain new and useful Improvements in Fan Attachments for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, which forms a part of this specification.

My invention relates to an improved fan attachment for sewing-machines which is adapted to be operated by the movement of the machine.

The object of the invention is to provide an improved attachment which shall possess superior advantages with respect to efficiency in use.

The invention consists, essentially, in a bracket adapted to be secured to a sewing-machine table in close proximity to the main driving-wheel of the machine, a rotatable vertical shaft having fans at the upper end, and a vertically-adjustable friction-pulley on said shaft which contacts with said wheel as the latter is rotated, whereby the shaft and fans are operated, as will be hereinafter fully described and claimed.

In the accompanying drawing, the figure is a perspective view of a fan attachment for sewing-machines constructed in accordance with my invention.

In the said drawing the reference-numeral 1 designates a rectangular base formed with holes 2 for the passage of screws by which it is secured to a sewing-machine table. This base is provided with a bracket 3, consisting of a piece of wire or metal rod bent over at the center, forming two vertical standards or arms 4, the ends of which are secured to the said base. This bracket at the upper end is bent into a loop 5, and one of said arms, near its lower end, is extended inwardly and formed

into a loop 6 and then extended outwardly and downwardly to the base. The said loops are alined with each other and through them is passed a vertical rotatable shaft 7, the lower end of which is stepped in a socket 8, secured to the base 1. To the upper end of this shaft are secured fans or blades 9.

The numeral 10 designates a conical pulley on the shaft 7, provided with a rubber rim 10^a at the upper end, and 12 is a set-screw for holding the pulley in place.

The numeral 13 designates the driving-wheel (shown in dotted lines) of a sewing-machine, which by its frictional contact with the pulley rotates the same and the shaft 7 and fan-blades 9.

The operation is as follows: The device is secured to a sewing-machine table so that the rubber rim of the pulley will impinge against the main driving-wheel of the machine. As the said wheel is operated by the treadles, fly-wheel, and connections, as usual, the shaft will be rotated by the frictional contact of the pulley and driving-wheel, causing the fans or blades to be revolved. The pulley is adjustable on the shaft so that it can be moved out of contact with the driving-wheel when it is not desired to have the fans operate.

Having thus fully described my invention, what I claim is—

In a fan attachment for sewing-machines the combination with the base, the bracket bent into a loop at the upper end, and one of the arms of said bracket near its lower end extended inwardly and outwardly and formed with a loop, of the vertical shaft and fans and the adjustable pulley having a rubber rim; substantially as described.

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

GEORGE W. BUSH.

Witnesses:

L. C. WALLACE,
W. L. JETT.