

J. YOUNG.
Fly Brush and Fan.

No. 219,792.

Patented Sept. 16, 1879.

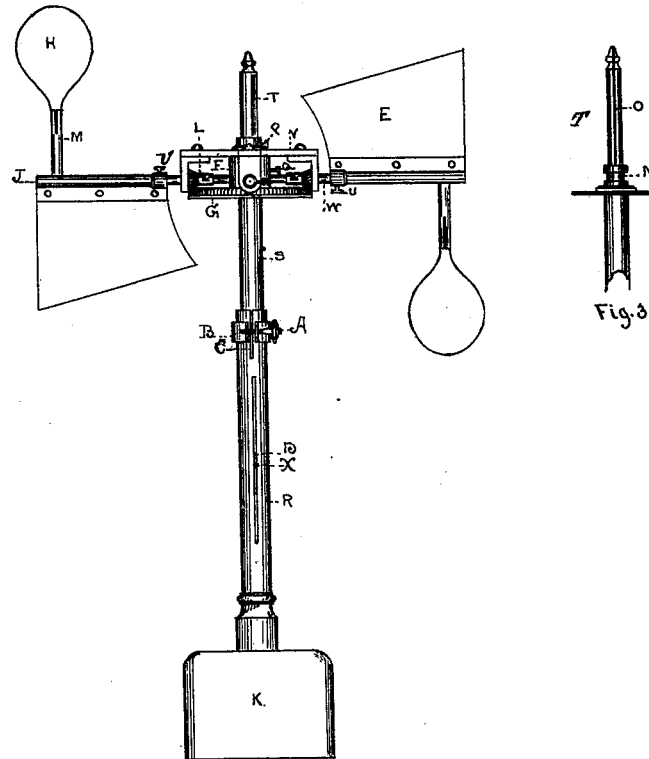


Fig. 2

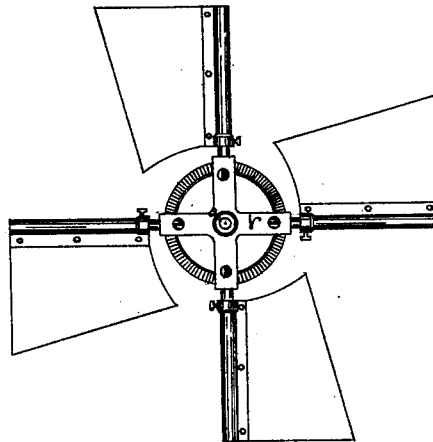


Fig. 1.

Witness
T. L. Emich
Frank. Thom.

Inventor
John Young
by A. J. Swynn
his attorney

UNITED STATES PATENT OFFICE.

JOHN YOUNG, OF TIFFIN, OHIO.

IMPROVEMENT IN FLY-BRUSH AND FAN.

Specification forming part of Letters Patent No. **219,792**, dated September 16, 1879; application filed June 7, 1879.

To all whom it may concern:

Be it known that I, JOHN YOUNG, of the city of Tiffin, in the county of Seneca and State of Ohio, have invented new and useful Improvements in Fly-Brushes or Invalids' Fans, of which I declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a plan view. Fig. 2 is an elevated view, showing the parts. Fig. 3 is a view of the top of the post S and upright shaft T, showing the turned groove or bearing N and the elongated groove O.

The object and purpose of my invention are to construct, first, an improved attachment to automatic fly-brushes or fans, for the purpose of extension or contraction of the upright post R; second, to so construct and attach the cross-head V that four horizontal fan-shafts, W, can be used, as shown in Fig. 1 of drawings, and that said cross-head will retain said fan-shafts W and pinion or gear wheels L in position and form sufficient bearings or journals therefor, so that said machine can be run or worked as effectively in an inverted position, while suspended over a sick-bed as a fan for invalids, as in its upright position; third, to so construct the extension-fan or fly-brush sleeve or holder J that the fly-brush E can be removed, and any common fan inserted in the sockets M, so that it can be used as a fan for invalids.

I will now proceed to describe its construction.

The invention consists in the arrangement of the upright post in two sections, R and S, section S working inside of section R in the manner of a telescope. There is a small pin, X, screwed in section S of said post, which works when said post is being extended or contracted in the elongated slot D in section R of said post, said post being capable of extension or contraction by means of another elongated slot, C, in top edge of section R and the screw-clamp B and thumb-screw A, so that by loosening the thumb-screw A in the screw-clamp B it allows section R of said post to expand, and thus allow section S to pass

loosely and smoothly up and down, and thereby avoid marring and bruising the inside section of said post by means of a set-screw, which is used in others. About half an inch from the top of section S of said post is attached the large face gear-wheel G, and on the end of said section S is a turned groove or bearing, N, as shown in Fig. 3 of drawings; also, passing through the center of said post R is an upright shaft, T, caused to revolve by means of clock-work in the base of said machine. On the top end of said upright shaft T is attached the cross-head V by means of two set-screws, Q and P, the set-screw Q passing through the lower part of the hub of said cross-head V into the turned groove or bearing N, thus performing the office of keeping said cross-head in position when said machine is placed in an inverted position. The other set-screw, P, passes through the top part of the hub of said cross-head into the elongated slot O in the upright shaft T, so that when said shaft is caused to revolve said cross-head will revolve therewith, thus giving the fly-brushes their motions—first, round the upright shaft T; second, around the horizontal fan-shafts W, which pass through the cross-head, said cross-head forming sufficient journals for said shafts, and having secured thereon, by means of set-screws U, the adjustable extension-fan sleeve J. The upright post R rests upon and is fastened in the circular bottom K, which contains the clock-work for giving the upright shaft its revolving motion.

Having thus described the construction and operation of my invention, what I claim, and wish to secure by Letters Patent, is—

1. The screw-clamp B, with the thumb-screw A, in combination with the post R, provided with elongated slots C and D and pin X, constructed and arranged to operate substantially as set forth.

2. The section S of the upright post, provided with the turned groove or bearing N, and the upright shaft T, provided with the elongated groove O, in combination with the set-screws Q and P and cross-head V, substantially as and for the purpose set forth.

3. The combination of the upright post, con-

sisting of section R, provided with the vertical slots C and D, and of the section S, provided with the turned groove or bearing N, the screw-clamp B, thumb-screw A, face gear-wheel G, small pinion-wheels L, fan-shafts W, adjustable fan-sleeve J, fan-support M, upright shaft T, provided with groove O, cross-head V, and set-screws P and Q, substantially as described, and for the purposes set forth.

In witness that I claim the above I hereunto set my hand this 5th day of June, A. D. 1879.

JOHN YOUNG.

In presence of—

F. L. EMICH,
FRANK FLOOM.