

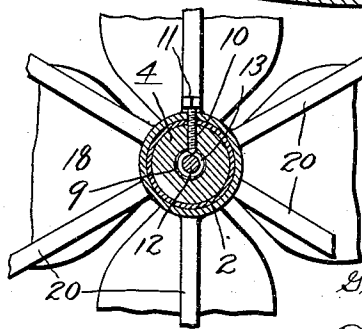
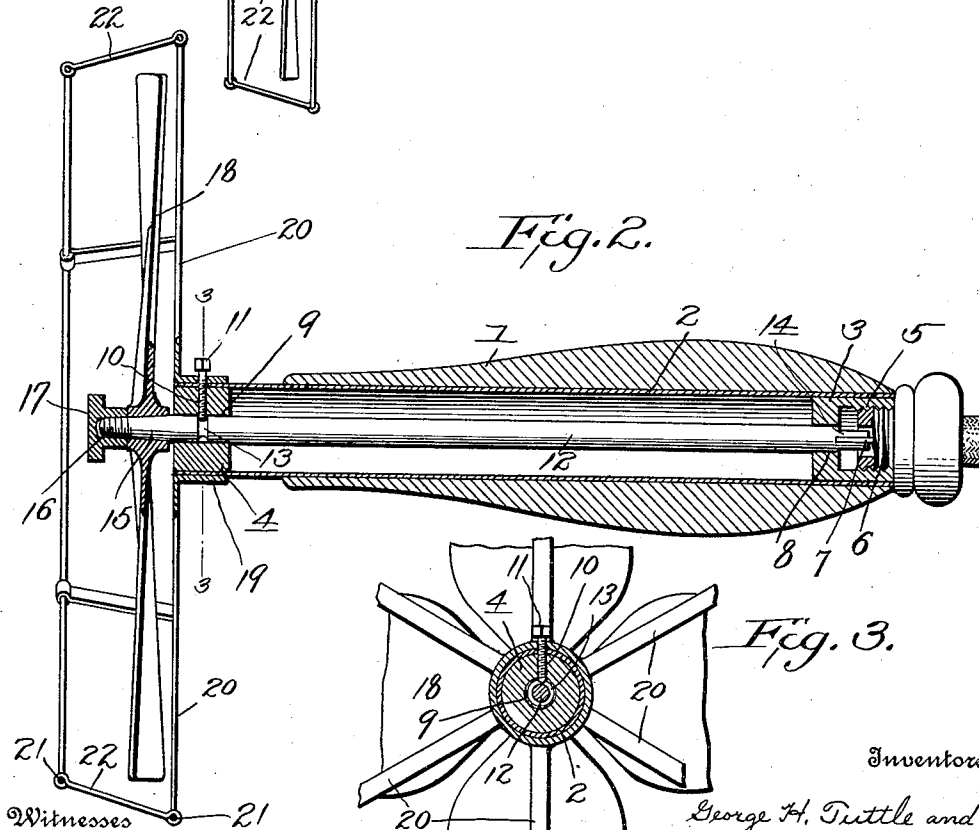
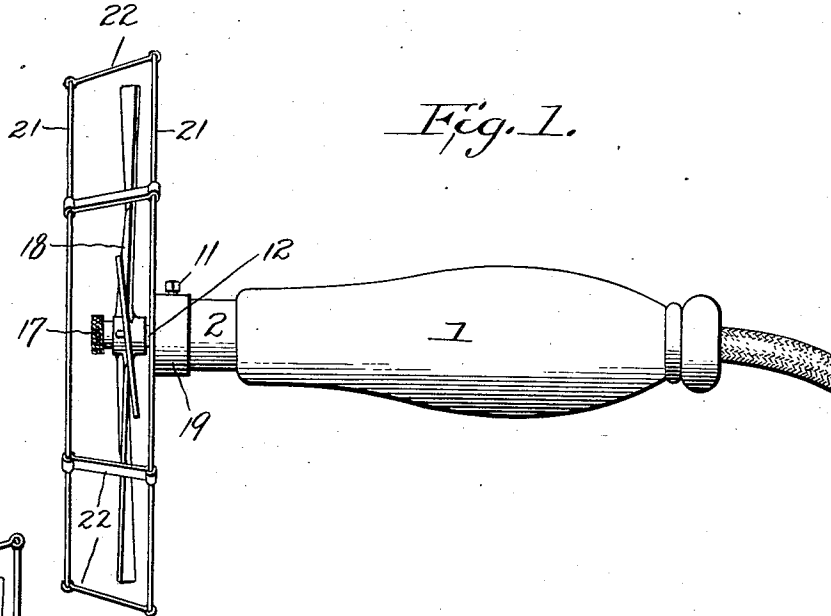
G. H. TUTTLE & F. B. FLEMING.

ELECTRIC FAN.

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1,058,278.

Patented Apr. 8, 1913.



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UNITED STATES PATENT OFFICE.

GEORGE H. TUTTLE AND FENTON B. FLEMING, OF LINCOLN, NEBRASKA.

ELECTRIC FAN.

1,058,278.

Specification of Letters Patent.

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Application filed June 11, 1912. Serial No. 703,013.

To all whom it may concern:

Be it known that we, GEORGE H. TUTTLE and FENTON B. FLEMING, citizens of the United States, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented certain new and useful Improvements in Electric Fans, of which the following is a specification.

Our invention pertains to electric fans, and consists in the peculiar and advantageous electrically-actuated fan, hereinafter described and claimed, designed more particularly for use in bath rooms and houses and tonsorial parlors where it is necessary to move a fan from place to place.

In the drawings, accompanying and forming part of this specification: Figure 1 is a side elevation of the fan. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view of the same cut on the line 3—3 of Fig. 2.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

Our invention is designed to obviate the necessity of moving a heavy and cumbersome electric motor, whenever it is desired to move a fan to a particular point of vantage, and among other elements it comprises a handle 1, of wood, metal or other material compatible with its purpose.

Fixed by frictional contact or otherwise in the handle 1 is a metallic tube 2, and suitably fixed in the opposite ends of the said tube are plugs 3 and 4. The plug 3 is provided at 5 with a threaded bore to receive the threaded nipple 6 of a cord or tubular guard such as is ordinarily used to inclose a flexible power transmission shaft 7, and is also provided with a smooth bore 8. The plug 4 is provided with a smooth bore 9 and with a threaded, radially-disposed aperture 10, the latter to receive a headed screw 11, the inner end of which is preferably rounded as shown.

Journalled in the bores 8 and 9 of the plugs 3 and 4 is a shaft 12 having a circumferential groove 13 to loosely receive the inner end of the screw 11, whereby the shaft is held against endwise movement, relative to the handle 1 and tube 2, without

interfering with the capacity of the shaft being freely rotated about its axis. At its rear end the shaft 12 is preferably slotted, as indicated by 14, to facilitate its connection to the before mentioned power-transmission shaft. The forward end of the said shaft is tapered, as indicated by 15, and its tapered portion merges into a tapered threaded end 16.

Wedge and secured by a thumb screw 17 on the shaft 12 so as to turn therewith is a fan 18 having four (more or less) blades, and surrounding the said fan and fixed on the tube 2 is a guard for the fan, comprising a hub 19, spokes 20, hoops 21 and transverse connecting pieces or braces 22.

It will be manifest from the foregoing that the transmission shaft 7 may be suitably connected with an electric or other suitable motor having a fixed location in a room or apartment, and by virtue of our improvements the fan may be conveniently held in the hand and moved from point to point as occasion demands.

It will also be manifest that our improvements are simple and inexpensive in construction and are well adapted to withstand the usage to which devices of corresponding character are ordinarily subjected.

Having described our invention, what we claim and desire to secure by Letters Patent, is:

In a fan construction, the combination of a handle, a tube fixed therein, a plug fixed in the rear portion of the tube and having a threaded socket and also having a smooth bore, a plug fixed in the forward portion of the tube and having a smooth longitudinal bore and also having a radial threaded aperture, a retaining screw carried therein, a shaft journalled in the said plugs and having a circumferential groove loosely receiving said screw, and a fan fixed on the said shaft.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE H. TUTTLE.
FENTON B. FLEMING.

Witnesses:

A. G. WOLFENBARGER,
EMMA J. HEDGES.