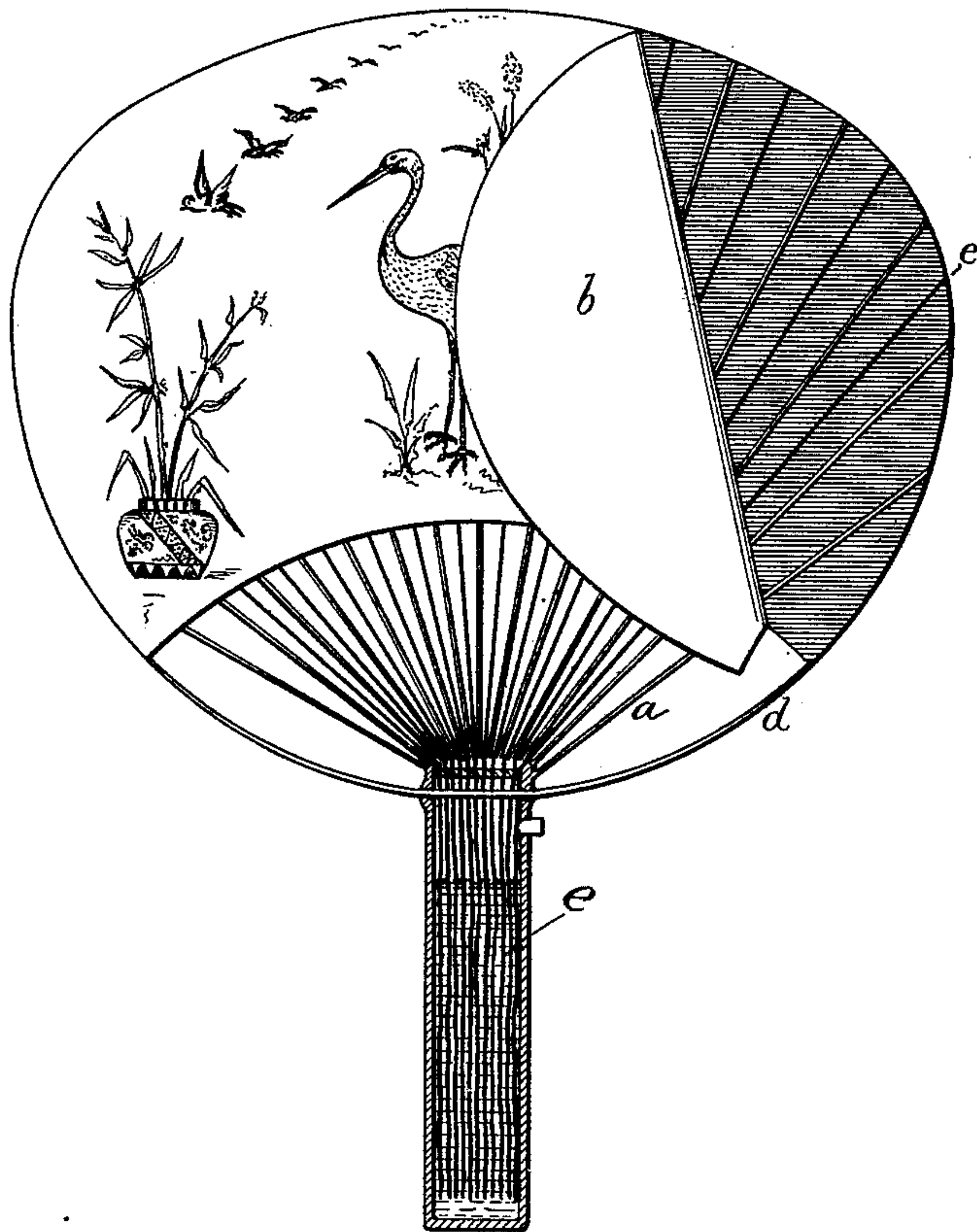


(No Model.)

F. O. HORSTMANN.
Fan.

No. 229,415.

Patented June 29, 1880.



WITNESSES:

*James J. Tobin,
Henry Howson, Jr.*

INVENTOR:

*F. Oden Horstmann.
by his Attorneys,
Howson and Son.*

UNITED STATES PATENT OFFICE.

F. ODEN HORSTMANN, OF PHILADELPHIA, PENNSYLVANIA.

FAN.

SPECIFICATION forming part of Letters Patent No. 229,415, dated June 29, 1880.

Application filed April 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, F. ODEN HORSTMANN, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented an Improvement in Fans, of which the following is a specification.

The object of my invention is to construct a fan, substantially as described hereinafter, so that the air agitated by it may be perfumed.

10 The figure in the accompanying drawing represents my improved fan, the handle being in section and part of the cover being turned back to exhibit the ribs and the fibrous strands, referred to hereinafter.

15 In carrying out my invention, I prefer to adopt the Japanese style of fan, which is made of a stalk of bamboo, part of the stalk being split into a number of ribs, *a*, which are opened in fan-shape and fastened in position by paper *b*, applied on each side, the remaining portion of the stalk forming the handle of the fan.

25 When paper is used as a cover it should be waterproofed; or thin muslin, silk, or other equivalent material may be used as a cover in place of paper.

30 A light bow, *d*, of wood or cane is passed through the handle *A*, and, extending beneath the covering, imparts strength to the blade of the fan.

In applying my invention to a fan of this class I close the tubular handle at both ends, and through the cap or plug which closes that end of the handle which is nearest to the

blade I pass a number of fibrous strands, *e*, 35 which extend in one direction nearly to the closed outer end of the handle, and radiate in the opposite direction, so as to be interspersed with the ribs of the fan, the strands being confined between the covers. 40

In the side of the handle, at a short distance from the blade, is an opening, through which any desired liquid, perfumed water, or seawater, for instance, may be introduced into the interior of the handle, the opening being 45 closed with a suitable plug or other stopper.

Owing to capillary attraction the fibrous strands will always be saturated with the liquid contained in the handle. Hence the air agitated by the fan, in using the same, must 50 always be tempered with the perfume derived from the liquid.

The application of my invention is not limited to fans of the Japanese style, for any ordinary fan can be provided with a hollow handle 55 and fibrous strands.

I claim as my invention—

A fan in which a hollow handle is combined with fibrous strands extending in one direction into the handle and in the other direction into 60 the blade of the fan, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

F. O. HORSTMANN.

Witnesses:

JAMES F. TOBIN,
HARRY SMITH.