

No. 651,182.

Patented June 5, 1900.

A. E. CAYZER.

FAN.

(Application filed Mar. 20, 1900.)

(No Model.)

2 Sheets—Sheet 1.

FIG. 2

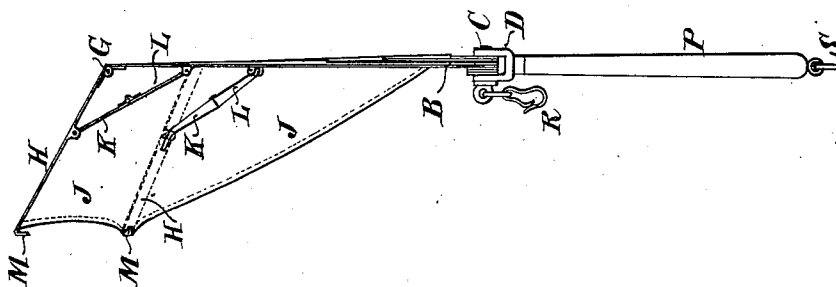
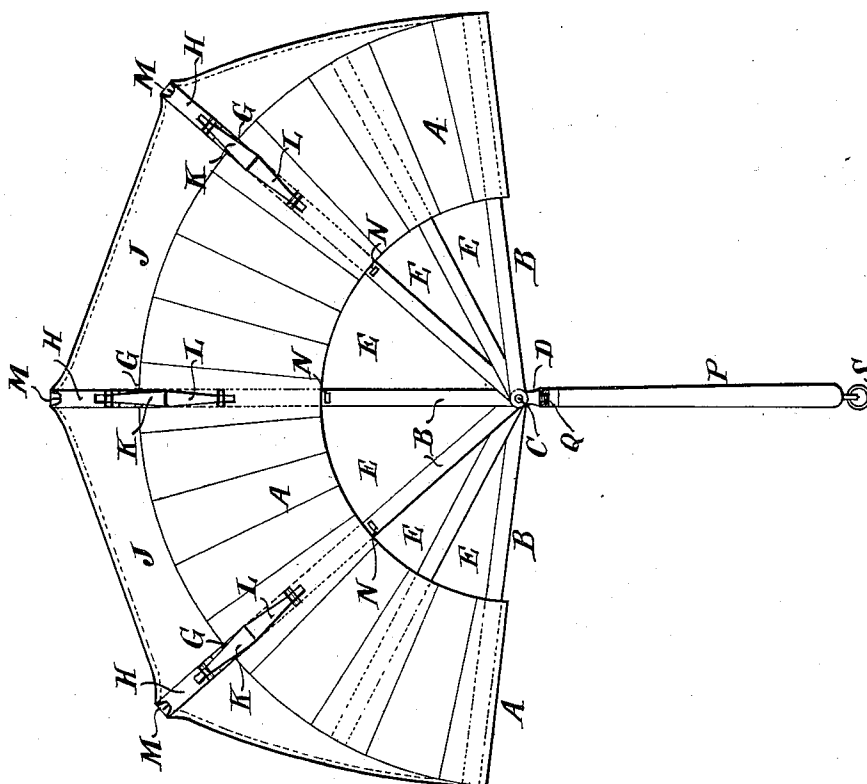


FIG. 1



WITNESSES

Walter Abbe
L. C. Connor

INVENTOR

Agnus Elizabeth Cayzer

BY

Howson and Howson

ATTORNEYS

No. 649,182.

Patented May 8, 1900.

C. H. STEARN & C. F. TOPHAM.

APPARATUS FOR PRODUCING RADIATION AND LIGHT BY ELECTRICITY.

(No Model.)

(Application filed Jan. 20, 1899.)

2 Sheets—Sheet 2.

Fig. 4.

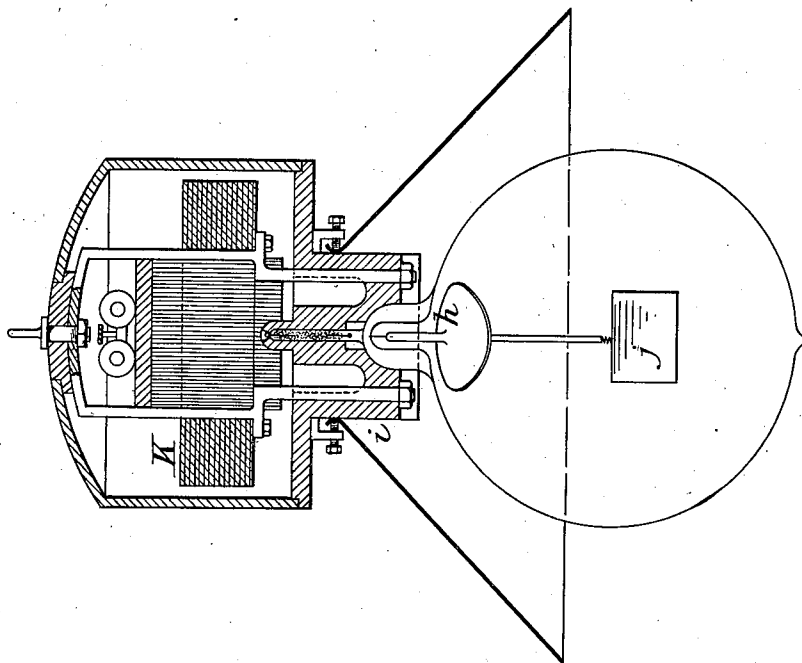
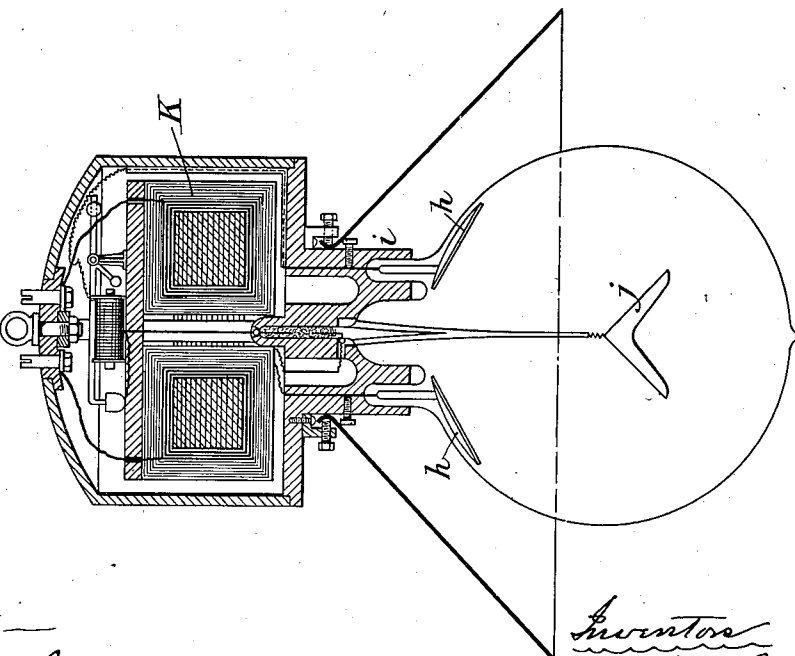


Fig. 3.



Attest: —
B. W. L. L. L.
W. B. Berkman

Inventors
Charles Henry Stearn
and Charles Frederick Topham
by Philip Mauro,
Att'y.

UNITED STATES PATENT OFFICE.

AGNES ELIZABETH CAYZER, OF RALSTON, SCOTLAND.

FAN.

SPECIFICATION forming part of Letters Patent No. 651,182, dated June 5, 1900.

Application filed March 20, 1900. Serial No. 9,411. (No model.)

To all whom it may concern:

Be it known that I, AGNES ELIZABETH CAYZER, (Lady Cayzer,) a subject of the Queen of Great Britain and Ireland, residing at Ralston, county of Renfrew, Scotland, have invented certain new and useful Improvements Applicable to Fans to Render them Available as Sunshades, (for which I have applied for British Letters Patent No. 17,439, dated August 29, 1899,) of which the following is a specification.

My said invention has for its object by an improved construction or combination of parts to render a fan capable of conversion into and usable as a kind of sunshade.

In order that my said invention and the manner of performing the same may be properly understood, I hereunto append two sheets of explanatory drawings, to be hereinafter referred to in describing the improvements.

Figure 1 is an inner side elevation, and Fig. 2 is a transverse section, of the improved instrument. Fig. 3 is a view similar to Fig. 1, showing the instrument in its partly folded or closed state; and Fig. 4 is a side elevation of the instrument in its fully-closed state.

In the drawings the same reference-letters are used to mark the same or like parts wherever they are repeated.

In carrying out my invention the fan part of the improved combination is constructed to some extent like an ordinary fan, a web or leaf A being provided which is attached to sticks or ribs B, fitted to turn on a pin C, fixed to a shackle D. The web A of the fan, however, according to my invention is arranged, as shown in Figs. 1 and 3, to cover only the outer halves (more or less) of the sticks or ribs B, so as to leave open spaces E between the inner portions of the ribs. To the outer ends of some of the ribs B—three, for example, being found a sufficient number with the size of the instrument shown—there are jointed, by means of hinges G, extension-ribs H, and to these ribs and to the outer edge of the main web A of the fan there is attached a crescent-shaped piece J, of silk or other light fabric, which forms when open, as shown in Figs. 1 and 2, an extension of the web of the

fan, but at an angle therewith. The extension-piece J, with the extension-ribs H, can be folded down upon the web A of the fan, as shown in Fig. 3, when the instrument is to be used mainly as a fan. The extension-ribs H are jointed or connected to the main sticks or ribs B in a manner to secure rigidity when they are closed down or when they are opened to the proper angle, the connection for this purpose consisting of a pair of toggle-links K L, the outer ends of which are connected, respectively, to an extension-rib and to a corresponding main rib of the fan. The extension-ribs H, with the extension-piece J, are kept in their closed-down position, as shown in Fig. 3, by catches or hooks M, formed on the extension-ribs H, the catches engaging in openings or eyes N, formed in the main ribs B of the fan.

The sticks or ribs B of the fan may be of various numbers and arranged in various ways; but there are by preference an odd number of them, such as five, seven, or nine, or otherwise, according to the size of the fan, with one stick at the middle, as shown, and with the spaces E on each side of it between it and the next sticks of ample width to admit of a clear unobstructed view when the fan is held up before the face. When the fan is thus held up and with its extension-piece open, it forms a sufficient and very convenient sunshade, protecting the head and face without in the least obstructing the view.

For conveniently holding the improved instrument when serving as a sunshade or as a fan a handle P is provided, the handle being preferably formed with a screwed end Q, by means of which it is screwed or fixed to the shackle D. When not in use, the handle P can be attached, as shown in Fig. 4, to a spring-link R, fixed to the shackle-pin, a ring S being provided on the end of the handle for attaching it to the spring-link.

What I claim as my invention is—

Improvements applicable to fans to render them available as sunshades, comprising extension-ribs jointed or hinged to the outer ends of the main ribs of the fan, an extension-piece of suitable fabric attached to the

extension-ribs and to the outer edge of the
main web or leaf of the fan, and means to re-
tain the extension-ribs in an opened or closed
position the parts being arranged and oper-
5 ating substantially as and for the purposes
hereinbefore described.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

AGNES ELIZABETH CAYZER.

Witnesses:

HENRY DAVID HOGBEN,

HERBERT ARTHUR MARSHALL.