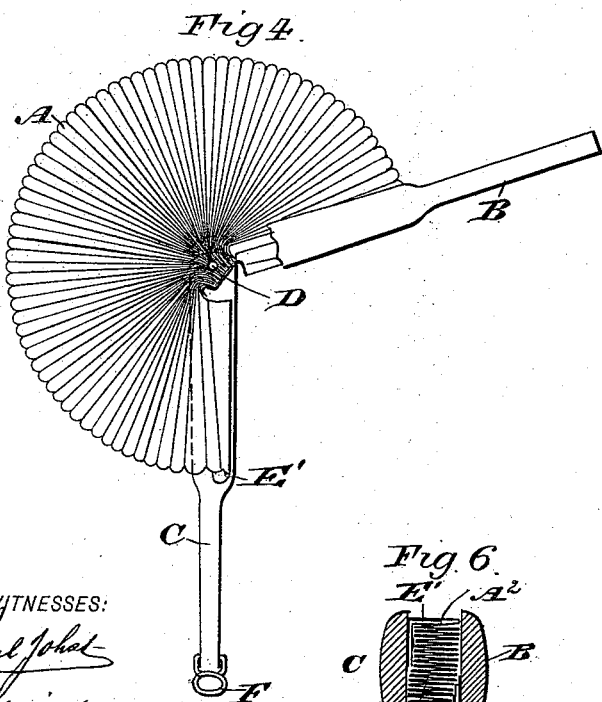
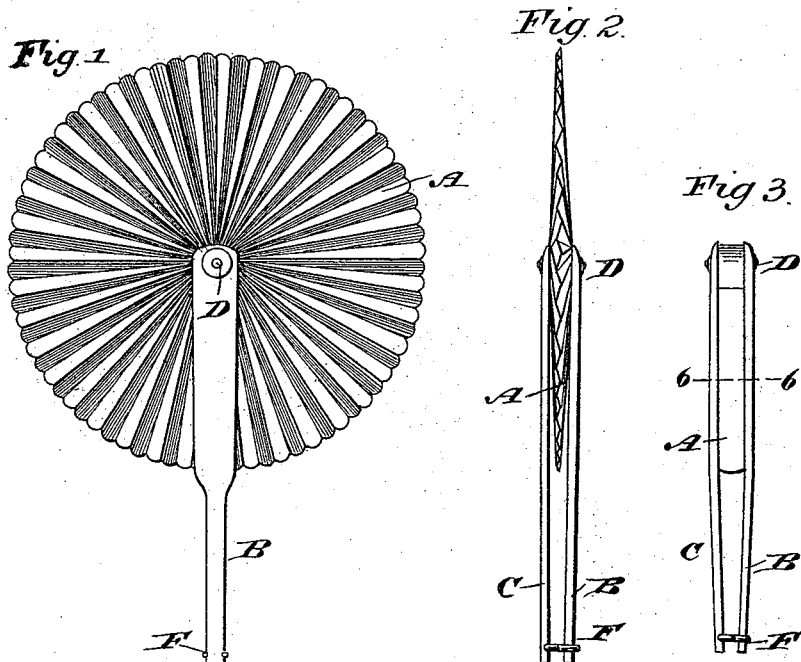


(No Model.)

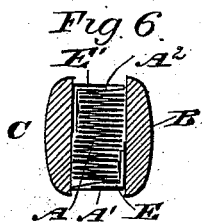
S. H. BAER.
FAN.

No. 490,532.

Patented Jan. 24, 1893.



WITNESSES:
Paul J. Schat
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UNITED STATES PATENT OFFICE.

SAMUEL H. BAER, OF BROOKLYN, NEW YORK.

FAN.

SPECIFICATION forming part of Letters Patent No. 490,532, dated January 24, 1893.

Application filed August 26, 1892. Serial No. 444,178. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL H. BAER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Fan, of which the following is a full, clear, and exact description.

The invention relates to that class of fans in which the web folds between two handles, and opens into circular form by swinging one handle section on the pivot connecting the two handle sections with each other.

The invention consists of certain parts and details, and combinations of the same, as will be hereinafter described and then pointed out in the claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement in an open position; Fig. 2 is an end elevation of the same; Fig. 3 is a like view of the same in a closed position; Fig. 4 is a side elevation of the improvement partly open and with parts broken out; Fig. 5 is an inner face view of one of the handle sections; and Fig. 6 is an enlarged sectional plan view of the improvement on the line 6—6 of Fig. 3.

The improved fan is provided with the web A, folded in the usual manner and arranged between the two handle sections B and C, connected with each other by a pin D, which also passes through the upper end of the web A, as will be readily understood by reference to Figs. 1 and 4. The pin D is so arranged that one of the handle sections can be swung on the pin as a pivot point to open and close the web, as hereinafter more fully described.

The outer folds A' and A² of the web A are secured on the inner surfaces or faces of the handle sections B and C respectively, by means of strips of sheet metal E and E', respectively, made L-shape in cross section like angle iron, as will be readily understood by reference to Fig. 6. The ends of the folds A' and A² are passed between the inner surface of the respective handle sections, and one arm of the strip E or E', the other arm of which extends toward the other handle section, and over the outside of it passes the fold A' or A² respectively, so that the said strips E and E' are not visible but securely fasten the folds

in place at their inner edges and at the same time hold the folds in proper position between the two handle sections B and C. The said L strips also cover or inclose the body of the web B, and protect it from injury by contact with other objects. They likewise serve to stiffen the handle sections B and C, so that the latter may be made much thinner than usual in this class of fans. It will be further noted, that the strips E, E', do not extend to or connect with the pivot pin, D, so that they do not interfere with the attachment of the inner end of the web, B, to said pin. Thus, the inner end of the web may be made as wide as the space between the handle sections, and is therefore stronger and more durable than would otherwise be the case.

It is understood that the strips E and E' are located at opposite edges on the inner surface of the handle sections B and C, as will be readily understood by reference to Fig. 6, and the projecting arms of the said strips extend about half-way across the distance between the two handle sections, so that in opening the frame one strip can pass the other to completely open the fan. The strips E and E' are nailed or otherwise secured to the inner surfaces of the handle sections, it being however understood that the edges of the folds A' and A² pass under the inner arms of the said strips to securely fasten the end folds to the respective handle sections.

In order to lock the handle sections in place, a suitable locking device F, of any approved description may be employed, so as to hold the handles in position when the fan is closed, as shown in Fig. 3, or when opened as illustrated in Figs. 1 and 2. It will be seen that when the fan is closed, the web A is folded between the handle sections B and C, and when it is desired to open the fan, the handle sections are unlocked at their handle ends and then one handle section is swung around on the pin D so as to carry its end fold along, thus opening the web A, the said handle section being passed around in a complete circle and in doing so, its strip E or E' passes the other strip E' or E, so that the end folds A' and A² cross each other when the web A is fully extended and the fan is in the position

shown in Fig. 1. In closing the fan, the respective handle section is swung in the opposite direction from that it had before, so that the strips E and E' pass each other and the swinging handle section again folds the web A, the latter being pressed between the handle sections and securely held in place therein between the strips E and E', see Fig. 6. Thus, when the fan is closed its web neatly folds between the handle sections, and when the fan is extended it has a nice circular appearance without exposing the fastening devices on the end folds.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent,—

In a fan of the class herein referred to, the combination, with the handle sections B C, of the sheet metal L strips E, and E', rigidly secured upon the flat inner sides of said handle section at opposite sides thereof, as shown, and their outer ends being at a point near the pivot pin, D, and the web, A, pivoted directly upon the said pin, as shown and described, whereby the base of the web occupies the entire space between the handle sections and its body is covered and protected when the fan is closed, as specified.

SAMUEL H. BAER.

Witnesses:

THEO. G. HOSTER,
C. SEDGWICK.