Sept. 21, 1948. M. IMPERIAL 2,449,701

FOLDING HAND FAN

Filed Feb. 7, 1946

FIG. 1.

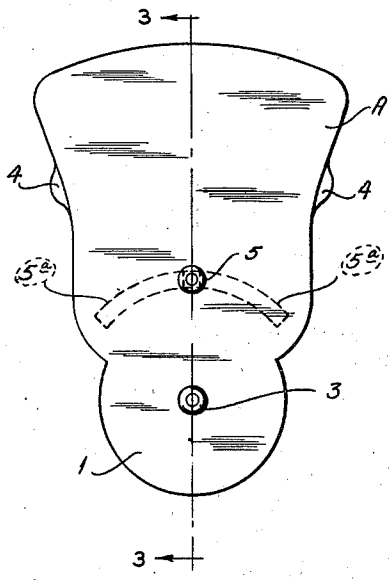


FIG. 2.

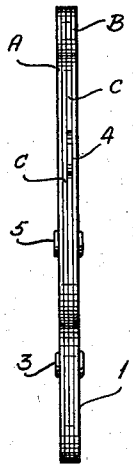


FIG. 3.

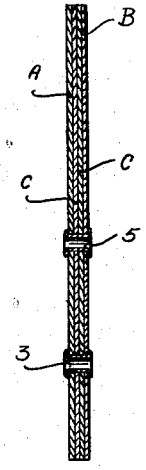


FIG. 5.

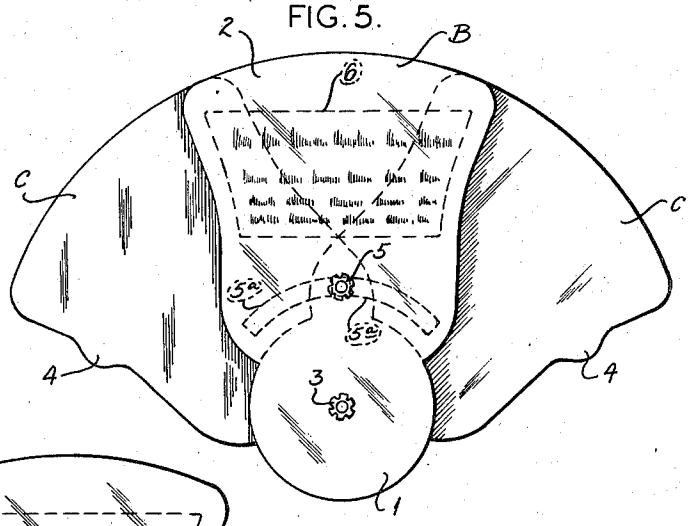
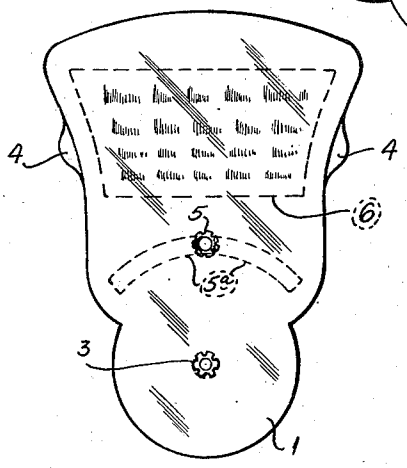


FIG. 4.



INVENTOR:

Michael Imperial,

by Carr Carr Rylander,

HIS ATTORNEYS.

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FOLDING HAND FAN

Michael Imperial, University City, Mo., assignor to Skinner & Kennedy Stationery Company, St. Louis, Mo., a corporation of Missouri

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1 Claim. (Cl. 230—269)

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This invention relates to folding hand fans of the kind comprising three sector-shaped sections whose small ends are connected in superimposed relation by a common pivot, whereby said fan is opened and closed by relative angular movement of said sections about said common pivot.

Heretofore, such fans have been made of substantially identical front cover and side sections and a smaller rear cover section for the lower portion only of said fan, with pictorial illustrations printed on the front faces of said front cover and side sections and with advertising matter printed on the back face of the rearmost side section between the top thereof and the top of said smaller rear cover section. This type of folding hand fan has many disadvantages. The printing of the advertisement on the back of one of the movable side sections throws the advertisement off center when the fan is unfolded, and the space for the printed advertisement is limited to the portion of said side section not covered by the small rear cover section when the fan is folded. A mistake in printing the advertisement results in the loss of the picture section and breaks up a set of three such picture sections. The proper side section must be selected for printing the advertisement thereon; and the three picture sections with the advertisement printed on one of the side sections must be carefully arranged in sets for assembly with the specially shaped smaller rear cover section. The smaller rear cover section does not strengthen or reinforce the upper portion of the fan or cover the gap formed between the two side sections thereof when the fan is unfolded; and the fan lacks uniform thickness due to said smaller rear cover section, thereby making it difficult to print the advertising matter on completely assembled fans.

The invention has for its principal object to devise a folding hand fan of the above type which will overcome all of the disadvantages hereinbefore referred to. The invention consists in providing the fan with a rear cover section of substantially the same size and shape as the three picture forming sections and in applying the printed advertising matter to the rear face of this full sized rear cover section; and it also consists in the parts and in the arrangements and combinations of parts hereinafter described and claimed.

In the accompanying drawing, which forms part of this specification, and wherein like symbols refer to like parts wherever they occur,

Fig. 1 is a front elevational view of a folding

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hand fan embodying my invention, the fan being shown folded,

Fig. 2 is an edge view of the folded fan,

Fig. 3 is a central vertical longitudinal section on the line 3—3 in Fig. 1,

Fig. 4 is a rear elevational view of the folded fan; and

Fig. 5 is a view similar to Fig. 4 showing the fan unfolded.

My folding hand fan comprises a front cover section A, a rear cover section B, and two side sections C, all of substantially the same size and shape. Each of these sections preferably comprises a flat piece of cardboard with a circular lower handle portion 1 and an upwardly flaring main body portion 2. The four sector or fan-shaped sections are superimposed one on another with the two side sections C interposed between the front and rear cover sections A and B respectively. The lower circular handle portions 1 of the four fan sections are all pivotally secured together by means of a pivot 3 in the form of a hollow rivet located at the center of said circular handle portions, whereby the fan is adapted to be folded into compact form when not in use by bringing the two pivotal side sections C into register with the front cover section A and back cover section B and the fan is unfolded by swinging said side sections on the pivot 3 outwardly away from each other with their outer side edges spaced outwardly from the corresponding side edges of said cover sections.

As shown in the drawing, the outer side edges of the two side sections C have outstanding projections 4 to enable said sections to be pulled outwardly to unfold the fan. Outwardly or unfolding movement of the two side sections C is limited and relative movement of the two cover sections A and B is prevented by means of a hollow rivet 5 which is anchored in said cover sections above the pivot 3 and extends through arcuate slots 5a provided therefor in said side sections, said arcuate slots being disposed concentric with said pivot. A pictorial illustration (not shown) is printed on the front surfaces of the front cover section A and the two side sections C; and suitable advertising matter 6 is printed on the rear face of the rear cover section.

The hereinbefore described folding hand fan construction has numerous important advantages. The rear cover section B is substantially of the same size and shape as the front cover section A and the two side sections C and serves to strengthen and stiffen the entire fan assembly and also to cover and protect the entire rear face

of the fan in the folded position thereof and to conceal the gap between the two side sections when the fan is unfolded. The rear cover section B remains upright in both folded and unfolded positions of the fan, and the printed advertising matter 6 on said section is centrally located in an easily readable position in both folded and unfolded positions of the fan. The full sized rear cover section B provides a large area for the printed advertising matter 6 and may be made and printed entirely independent of the picture forming front cover section A and side sections C. If a mistake is made in printing the advertisement 6, only the cheaper rear cover section B need be discarded. The rear cover sections may be printed in advance of the three picture forming sections which may be assembled in sets and the rear cover section applied thereto any time after they have been printed. In fact, the rear cover section may be printed after the fan is completely assembled, due to the uniform thickness provided over the entire area of the fan by the four substantially identical sections thereof. A plurality of back cover advertisements may be printed on a single sheet of cardboard and the printed cardboard die cut to form the printed back cover sections; and these printed back cover sections may be quickly and easily assembled with the substantially identically shaped picture forming sections.

What I claim is:

A folding hand fan comprising opposed flat front and back cover sections and two overlapped flat side sections interposed between said front and back cover sections, a single means for pivotally connecting all of said sections together at one end, whereby said sections are adapted to be swung one over another in their own planes into substantially fully overlapped relation between said front and back cover sections and are adapted to be swung away from each other into spaced apart relation so as to extend beyond opposite side edges of said front and back cover sections, said back cover section having printed matter on the back face thereof, and a single means for permanently securing said opposed front and back cover sections together against relative pivotal movement and for preventing said side sections from swinging entirely clear of said opposite side edges of said cover sections, all of said sections being of substantially the same size and shape, whereby said front and back cover sections are adapted to provide at the front and back of the fan substantially complete coverage for said side sections in the fully overlapped position thereof and are also adapted to provide complete coverage at both the front and back of the fan for the space formed between said side sections in the spaced apart position thereof.

MICHAEL IMPERIAL.

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