

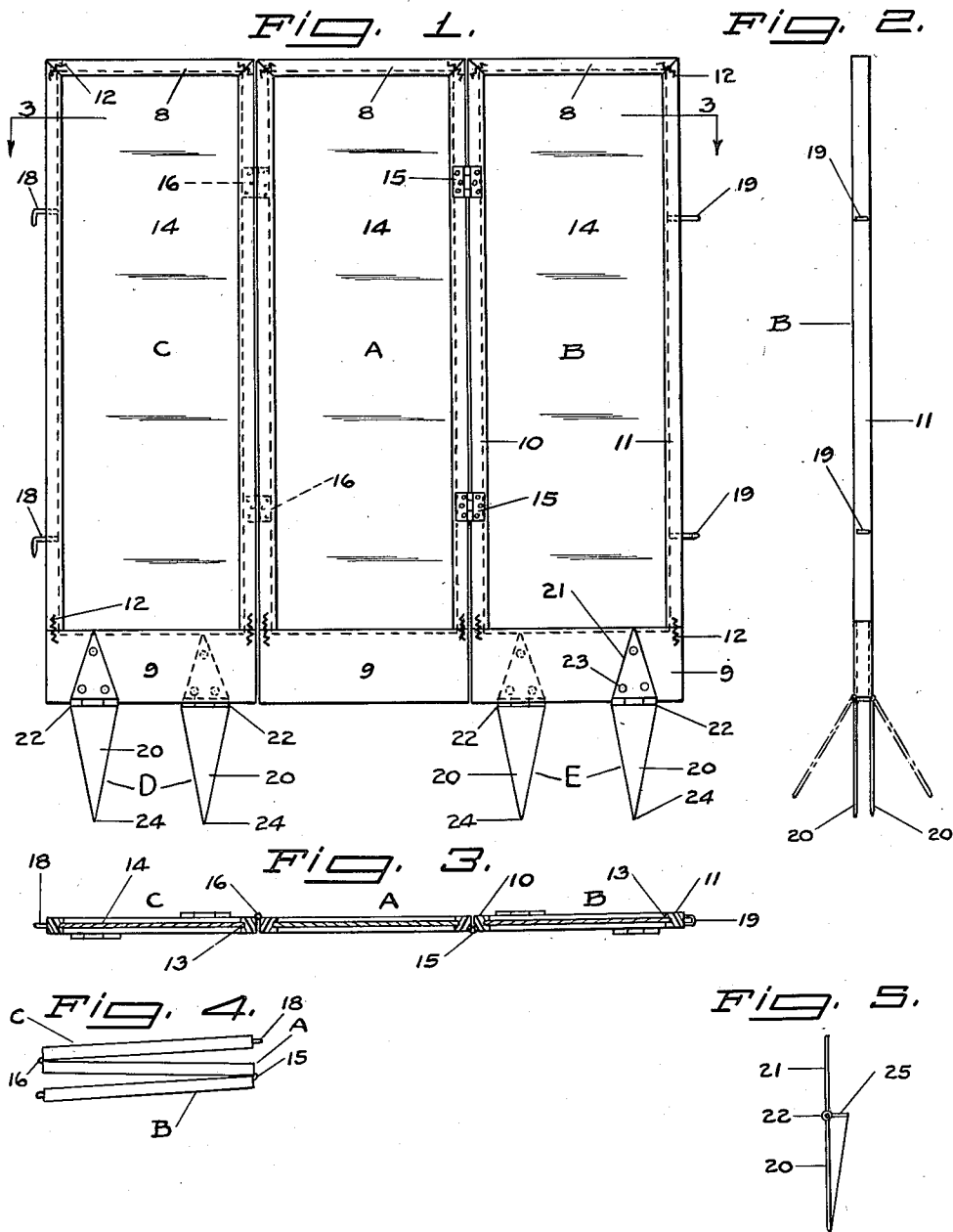
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WIND-BREAK

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WINDBREAK

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1 Claim. (Cl. 160—181)

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This invention relates to an improved wind-break and has reference to a portable structure particularly adapted to be used as a shelter on beaches for the purpose of breaking the wind, and to thereby provide comfort and protection for bathers and other parties seeking recreation at beaches, camping places and the like.

An object of the present invention is to provide a wind-break in the form of a shield made of a plurality of sections hingedly secured one to the other and to provide a plurality of specially constructed stakes hingedly secured to the lower portions of the said sections and adapted to lock therewith, whereby the sections forming the device are capable of being rigidly retained in the soil.

Another object of the present invention is the provision of a plurality of hooks and eyes on the device for enabling a plurality of similar wind-breaks to be detachably joined one to the other for increasing the length of the device.

A further object of the present invention is to construct each section in the form of a suitable frame and to groove the inner edges of the frame and to preferably provide plastic screen or suitable sheets of transparent plastic within said grooves.

A still further object of the present invention is to provide an improved portable wind-break of the character described that is durable, adjustable, simple in construction, positive in operation, economical to manufacture and highly efficient and serviceable in use.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of the specification, wherein for the purpose of illustration like numerals designate like parts throughout the same:

Fig. 1 is a vertical elevational view of the device showing the sections in their opened positions forming the wind-break and illustrating the general principle of the invention,

Fig. 2 is an end elevational view of the device looking at the view shown in Fig. 1, in the direction of the arrow 2,

Fig. 3 is a horizontal sectional view taken on line 3—3 of Fig. 1,

Fig. 4 is a top plan view showing the sections in their folded closed positions, one end section folding inwardly and the other section folding outwardly,

Fig. 5 is a vertical side elevational view of one of the hinge-like locking stakes employed in the invention.

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Referring in detail to the drawing and the numerals thereof, the letter characters A, B and C designate as a whole the central section and the two end sections, respectively. Each section forms a frame comprising a top and bottom portion, 8 and 9, respectively, and two side portions 10 and 11 rigidly fastened to the said top and bottom portions in any suitable manner, the present illustration showing conventional brads 12 being employed as the fastening medium. The inner surfaces of the said top, bottom and side portions are grooved as at 13 for accommodating sheets preferably formed of transparent plastic or plastic screen, and designated by the numeral 14, which sheets are positioned within said grooves and substantially retained in their respective frames forming windows as disclosed to advantage in Figs. 1 and 3. The numeral 15 designates suitable hinges for hingedly securing the frame section B to the central section A and likewise hinges 16 positioned on the opposite side of the sections hingedly secure the frame section C to the section A. It will be noted that due to the said hinges being positioned on opposite sides of the central section A, the end section B will swing in an opposite direction from the end section C, thus enabling the device to be folded as disclosed to advantage in Fig. 4. A plurality of hooks 18 is provided in the outer side portion of the section C, and likewise, a plurality of eyes 19 are secured in the outer side portion of the section B for receiving similar hooks in a similar wind-break, whereby two or any desired number of wind-breaks as illustrated in Fig. 1, can be detachably secured one to the other for providing a wind-break of greater length.

The means provided for rigidly securing the device in the sand or other soil is shown as comprising a plurality of specially constructed stakes designated as a whole by the characters D and E, which stakes are positioned on opposite sides of the wind-break and lock thereto in opposite directions, thus rigidly supporting the same. Each stake is composed of a lower angular portion 20 and an upper portion 21 hinged one to the other as at 22, the hinge connection being of conventional construction employed in standard hinges. Suitable screws 23 secure the upper portion 21 to the lower portion 9 of the frame sections B and C. The lower portion 20 forming the stake is preferably pointed as at 24 to facilitate the pressing of the same into the soil. A locking lip 25 is fixed to the lower portion 20 of the stake, as disclosed in Fig. 5, which lip extends underneath and

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against the bottom 9 of the wind-break frame, as illustrated in Fig. 2, preventing the same from swinging in a direction toward the opposite side from which the stake is secured. Thus the frame is rigidly supported in one direction. It is obvious that when a stake is fixed to both sides of the frame as disclosed in Figs. 1 and 2, the said frame will be rigidly supported in both directions. When the device is not in use the said stakes can be compactly folded against the particular sections to which they are secured.

From the foregoing description taken in conjunction with the accompanying drawing it will be obvious that the present invention provides a compact portable device which can readily be set up on beaches, camping places and the like and will protect the users against wind and dust and is also transparent to afford the greater comfort.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the shape, size, material and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:

A wind breaking device of the character described, comprising a series of vertically positioned frames, a groove extending in and around the inner surface of each frame, a sheet of transparent plastic positioned in the said groove in

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each frame providing a window in each frame, a plurality of hinges securing the frames one to the other, a plurality of foldable stakes of hinged-form secured to the lower portion of the frames, a plurality of hooks fixed in the outer vertical surface of a frame forming one end of the device, and a plurality of eyes fixed in the outer vertical surface of the frame forming the opposite end of the device, whereby a wind breaking frame of similar construction is capable of being connected thereto.

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REFERENCES CITED

- 15 The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
20 88,412	Richard	Mar. 30, 1869
141,750	Becher	Aug. 12, 1873
178,659	Murray	June 13, 1876
1,098,218	Boileau	May 26, 1914
1,315,628	Gilbert	Sept. 9, 1919
25 1,363,187	Miller	Dec. 21, 1920
1,645,355	Sherfs	Oct. 11, 1927
1,753,795	Linn	Apr. 8, 1930

FOREIGN PATENTS

Number	Country	Date
30 481,454	Great Britain	Mar. 11, 1938