July 6, 1965 H. D. BURDETT 3,193,255

FENCE STRUCTURE

Filed Feb. 4, 1963

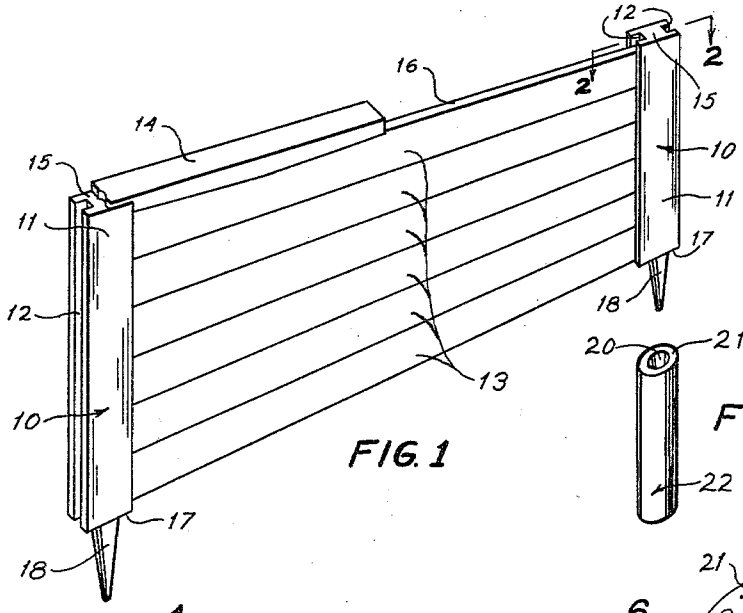

FIG. 1

FIG. 1a

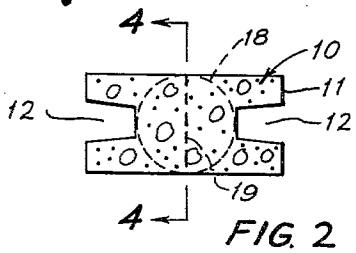

FIG. 2

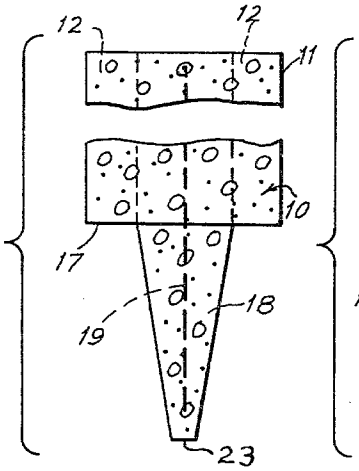

FIG. 3

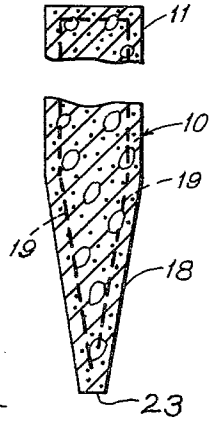

FIG. 4

FIG. 5

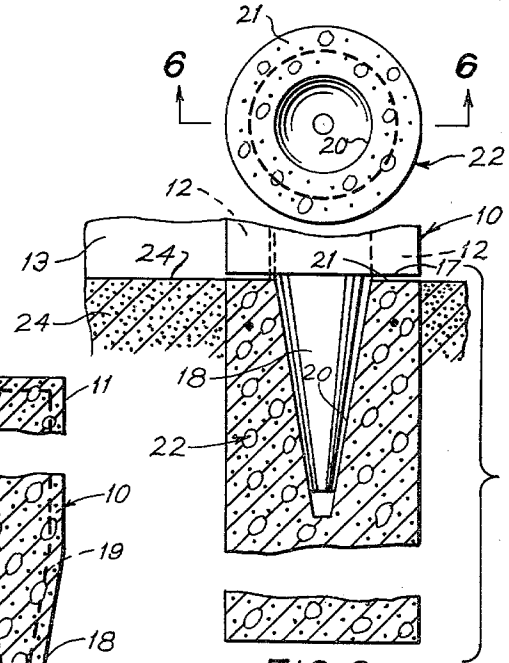

FIG. 6

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3,193,255

FENCE STRUCTURE

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1 Claim. (Cl. 256—19)

This invention pertains to improvements in fence structures and is particularly directed to such structure of a demountable type.

One of the objects of this invention is to provide a demountable fence structure which is easy to install with a minimum of effort and skill being required.

Another object of this invention is to provide a demountable fence structure which, when assembled, takes on the appearance and function of a rigid fixed fence structure of conventional type.

A further object is to provide a fence structure which may be assembled and disassembled many times while always maintaining exact and correct alignment and appearance of the assembled fence.

Further features and advantages of this invention will appear from a detailed description of the drawings in which:

FIG. 1 is a perspective view of one of the fence panels incorporating the features of this invention.

FIG. 1*a* is a perspective view of one of the foundation members for supporting and aligning the fence of FIG. 1.

FIG. 2 is a plan view of the top of a support post.

FIG. 3 is a fragmentary elevational view of the side of a support post.

FIG. 4 is a vertical section on the line 4—4 of FIG. 2.

FIG. 5 is a plan view of the top of the foundation member of FIG. 1*a*.

FIG. 6 is an enlarged diametrical section on the line 6—6 of FIG. 5.

As an example of one embodiment of this invention, there is shown a fence structure comprising in combination the support posts 10, each comprising the upper portion 11 having suitable vertical grooves 12 in which are carried the fence rail members 13. A suitable cap member 14 may be placed between the tops 15 of the support posts 10 and along the top edge 16 of the top rail 13 to provide a finished appearance to the completed fence.

Formed integral with and depending downwardly from the bottom ends 17 of the support posts 10 are the conically tapered positioning and supporting shanks 18. Suitable reinforcing bars 19 may be utilized in the support post structures 10 just described for maximum rigidity and strength. The shank 18 is adapted to be received in the mating conical bore 20 in the top end 21 of the foundation members 22 which are set in the ground 24 directly or suitably grouted in concrete in pre-dug holes in the ground.

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It is important to note, FIG. 6, that when the post 10 is placed with its shank 18 in the conical bore 20 of the foundation member 22, that the bottom end 23 of the shank 18 does not bottom in the bore 20. Also, the tapers of the shank 18 and the bore 20 are so arranged that when fully engaged the bottom end 17 of the post 10 and the top end 21 of the foundation member 22 just contact or preferably have slight clearance between surfaces 17–21 so that the shank 18 is the sole means for supporting and aligning the fence structure. The bottom of rail 13, FIG. 6, preferably rests upon the top surface 21 of the foundation member 22 at the ground line 24.

While the apparatus herein disclosed and described constitutes a preferred form of the invention, it is also to be understood that the apparatus is capable of mechanical alteration without departing from the spirit of the invention and that such mechanical arrangement and commercial adaptation as fall within the scope of the appenedent claim are intended to be included herein.

Having thus fully set forth and described this invention what is claimed and desired to be obtained by United States Letters Patent is:

A demountable fence structure comprising in combination:

(A) a plurality of support posts,

(B) an upper portion on said posts,

(C) vertically disposed grooves in the upper portion of said posts,

(D) fence rails adapted to be demountably carried in said grooves,

(E) a cap member adapted to be placed between the top of said posts and along the top edge of the topmost of said rails,

(F) conically tapered positioning and supporting shanks formed integral with and depending convergingly downwardly from the bottom end of said support posts,

(G) a foundation member, one for each support post, having a conical bore extending convergingly downwardly adapted to rotatably demountably receive the shank of a support post to provide the sole means for positioning, aligning, and securing by gravity the fence structure in desired position.

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