Oct. 11, 1960 A. N. BLOCK 2,955,806

CONCRETE FENCE STRUCTURE

Filed Aug. 4, 1958 2 Sheets-Sheet 1

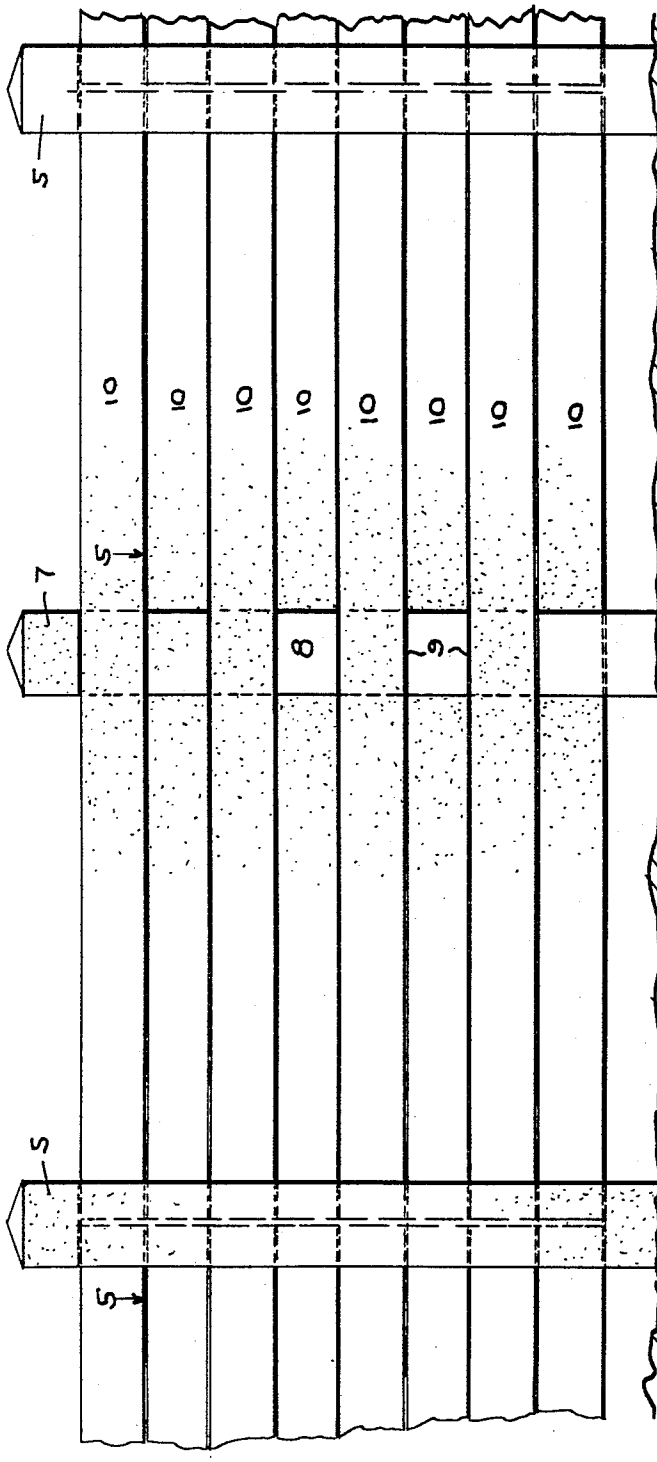


Fig. 1.

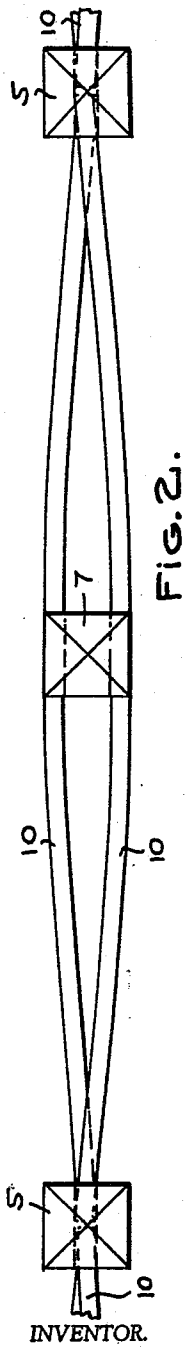


Fig. 2.

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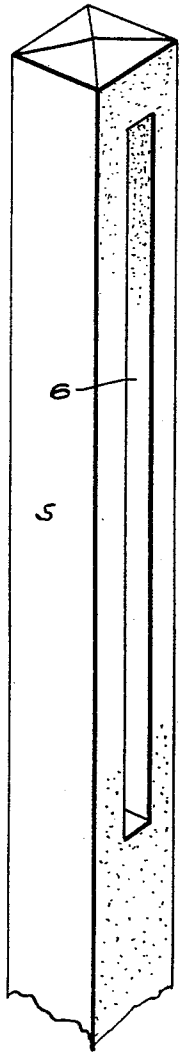


Fig. 3.

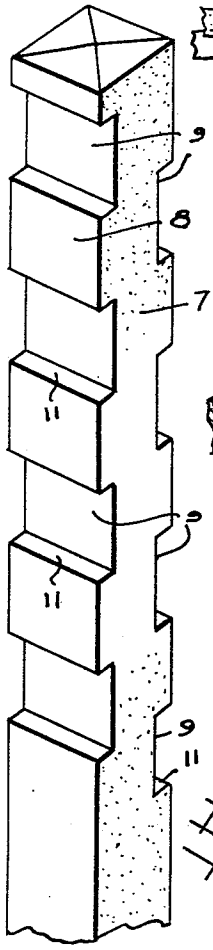


Fig. 4

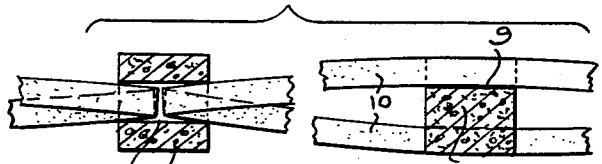


Fig. 5.

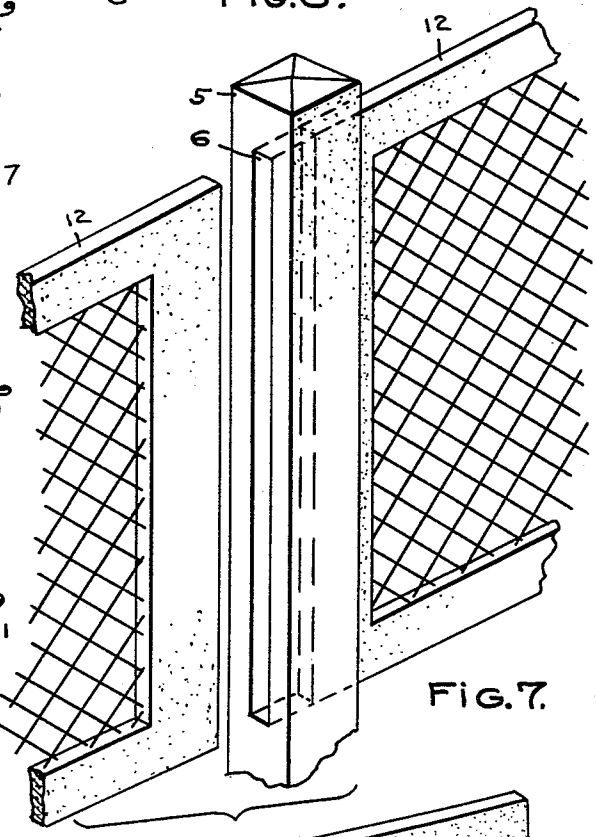


Fig. 7.

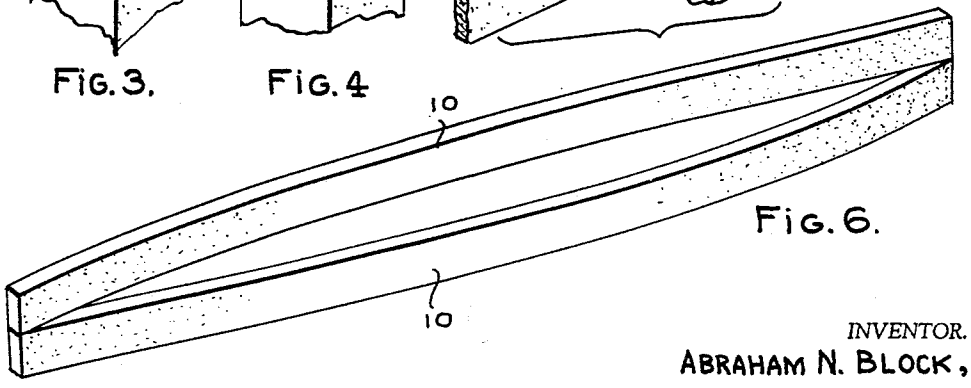


Fig. 6.

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CONCRETE FENCE STRUCTURE

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1 Claim. (Cl. 256—19)

This invention relates to fence structures and has particular reference to a fence that is formed of a multiplicity of precast elements that are assembled to form a fence of the conventional basket weave type wherein a plurality of strips or rails are bent intermediate their length with an interposed post that supports the strips intermediate their length against any tendency to sag and at the same time effectively maintains the bow of the rails and presents an ornamental type of fence of a relatively permanent nature.

The invention contemplates precast posts that are slotted for their major height and intermediate posts that are transversely notched upon opposite sides in staggered relation and whereby strips or rails of precast concrete in reversely bent form have their end portions extending into the slots of the first posts and with their intermediate portions resting within the notches in the intermediate posts and with the fence being assembled in a minimum of time after the posts have been installed, since the strips may be readily inserted in an endwise manner within the slots of the first posts without the necessity of shifting the posts and enables the fence to be progressively formed to enclose a particular area.

The invention further contemplates precast main posts as above indicated that are slotted for their major height and whereby a plurality of concrete frame panels may be inserted into the slots in end to end relation and with the frames constituting the support for the well known "chain link" fence, thus permitting such a fence to be quickly and easily installed.

Novel features of construction and operation of the device will be more clearly apparent during the course of the following description, reference being had to the accompanying drawings wherein has been illustrated the preferred forms of the device and wherein like characters of reference are employed to denote like parts throughout the several figures.

In the drawings:

Figure 1 is a side elevation of a section of concrete fence constructed in accordance with the invention,

Figure 2 is a plan view thereof,

Figure 3 is a perspective view of end posts for each section of fence,

Figure 4 is a perspective view of an intermediate post for use with each relatively long section of fence,

Figure 5 is a fragmentary horizontal section taken substantially on line 5—5 of Figure 1,

Figure 6 is a perspective view of a pair of oppositely disposed concrete strips embodied in the fence and,

Figure 7 is a fragmentary perspective view of the end post indicated in Figure 3, shown in supporting relation to a modified form of panel structure constituting the fence.

Referring specifically to the drawings, end posts 5 are cast from concrete and suitably reinforced and constitute the end posts for predetermined fence sections. The posts 5 are vertically slotted from side to side as indicated

at 6 and with the slot extending for the major height of the post. The post 5 constitutes the supporting means for the ends of panels or strips that constitute the rails or weaving of the fence. With the posts 5 in position, oppositely extending strips may be engaged within the slots 6 so as to form a continuous fence of predetermined dimensions. The numeral 7 designates an intermediate post, substantially corresponding in cross-sectional dimensions to the post 5. The post 7 has its opposite faces 8 transversely notched at 9 and with the notches 9 upon the opposite faces 8 being in staggered relation. The notches 9 are substantially identical and have a depth corresponding to the thickness of fence forming strips, to be described.

Adapted to engage the posts 5 and 7, are a plurality of arcuately formed precast concrete strips or rails 10. The strips 10 are formed identical and each alternate strip constituting the fence is assembled in reverse with respect to its next adjacent strip. The ends of the strips 10 at assembly are shifted into the slots 6, starting at the bottom of the slots and with the itermediate bowed portion of the strips 10 then engaging its respective notch 9, at which time the opposite end of the strip is shifted longitudinally to extend into the next post 5 for substantially half the width of the slot. The bowed portion of the strip thus rests upon the shoulder 11, where it is held against any tendency to sag or partake of any rocking motion. The strips 10 are alternately installed within the slots 6 and rest one upon another and the notches 9 receive the the intermediate portion of the strip until the entire height of the fence has been provided. It will be entirely obvious that the width of the strips 10 and the length of the slots and the notches are predetermined in accordance with the particular fence to be constructed. With the strips all in position, shown in Figures 1 and 2 the fence presents the appearance of the well known wood basket weave type of fence of the type wherein wood strips are bent around an intermediate post and secured to outer posts, giving the basket weave effect. With the particular construction presented herewith, the desirable effect of the basket weave fence has been provided that is rigid, permanent in construction and readily lends itself to painting or decorating in any desirable manner or permits the training of vines, bushes or the like thereover without danger of rotting or deterioration.

It is believed, that the operation of this form of the invention will be entirely apparent, the posts 5 are set within the ground at a predetermined space, such spacing being in accordance with the length of the strips 10 to be employed. The posts 7 are then installed intermediate the spacing of the posts 5 and in direct line therewith. The posts are preferably set in concrete and, after the concrete has sufficiently set, the operator proceeds to install the strips 10 as before pointed out, beginning at the bottom of the slots 6, shifting one end of the strip into the slot of one post and then engaging the intermediate bowed portion into its respective notch 9 and then shifting the strip longitudinally to engage its opposite end in the next post 5, such operation continuing until the required number of strips have been installed in alternately bowed manner. The engagement of the intermediate portions of the strips 10 within the notches while having relatively free clearance, any spacing between the strip and the notch may be easily filled in with mortar to give a smooth finished appearance such as an integrally cast concrete structure. The same mortar closing of the end connections between the strips 10 and the posts 5 may likewise be employed, effectively presenting a finished ornamental appearance. The fence strips 10 are permanently bowed and require but a single mold for their casting, since the strips are merely reversed in their order

and have the identical bow in each direction with respect to the posts **7**. Where a short section of fence is to be installed, it will be apparent that two closely adjacent posts **5** will be employed and strips **10** of predetermined length will constitute the spanning medium between such posts and the strips will rest one upon the other and be adequately supported at their ends by the posts without the necessity of an intermediate post **7**. In Figure 7, there have been illustrated similar posts **5** and fence forming panels **12**. The panels **12** are in the form of precast reinforced concrete frames having sections of conventional woven wire therein such for instance, as the conventional and well known "chain link" fence, thus providing a very desirable fence of the open type. The panels **12** will obviously be formed in various dimensions but in each instance having a height calculated to permit the ends of the panels being shifted into the slots **6**. This type of fence is desirable in many instances and may be readily installed with a minimum of effort required first of course the rigid installation of the posts **5** after which, the panels are alternately shifted into the slots **6** in an endwise manner and throughout the length of the fence. Corner posts will obviously be employed where the fence is to extend around an area at a right angle and it will be apparent, that the slots **6** will be extended through both sides of the fence. However, any desirable means may be employed to control the direction of the fence.

It will be apparent, that a very desirable and ornamental type of concrete fence has been employed. The structure is ornamental, economical to form, easy to assemble and is permanent as against rotting or deterioration and may be assembled or disassembled as may be found desirable. The structure readily lends itself to varying sizes such as the number of strips **10** in a given height of fence and it will be obvious, that the elements comprising the posts **5** and **7** and the strips **10** shall be formed in accordance with varying recognized fence sections.

It is to be understood that the invention is not limited to the precise construction shown, but that changes are contemplated as readily fall within the spirit of the invention as shall be determined by the scope of the subjoined claim.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

A precast and reinforced concrete fence that comprises spaced apart vertically disposed concrete posts that are square in cross section and with the posts being transversely slotted for their major height and with the slots opening upon two oppositely facing sides of the posts, connecting precast and reinforced concrete strips that extend between adjacent posts and with the ends of the strips adapted to be disposed within the slots of adjacent posts for at least one-half of the depth of the slots, the strips being flat upon opposite sides and bowed throughout their length, the strips being disposed with their edges in overlying contacting engagement with respect to each other and with each alternate strip being reversed to dispose their bowed shape in opposite directions to simulate a basket weave, the slots of the posts being dimensioned to permit the strips to freely engage therein, an intermediate concrete supporting post that is disposed to engage the several strips intermediate their lengths and with the last named post being ground supported, the intermediate post being transversely notched upon two opposite faces and with the notches conforming to the strips and being of a depth whereby the strips engage the notches to be flush with the faces of the post, the notches of the intermediate post being alternately staggered for receiving the bowed strips alternately upon opposite sides whereby the strips are supported intermediate their length against sagging, the said intermediate posts being dimensioned transversely in accordance with the first named posts.

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