Oct. 4, 1966 L. DELIA 3,276,043

PREFABRICATED SWIMMING POOL

Filed June 30, 1964
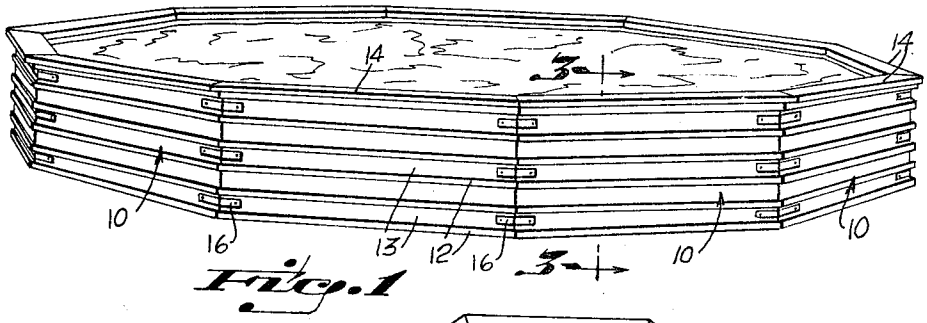


Fig. 1

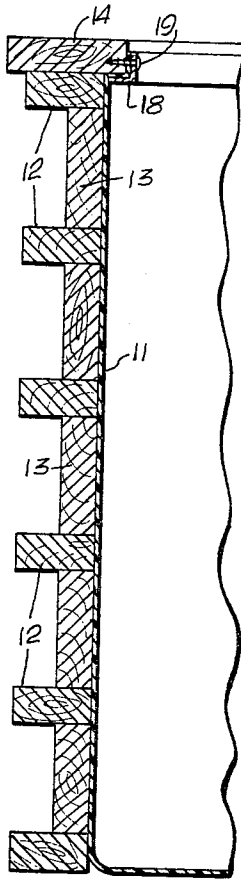


Fig. 3

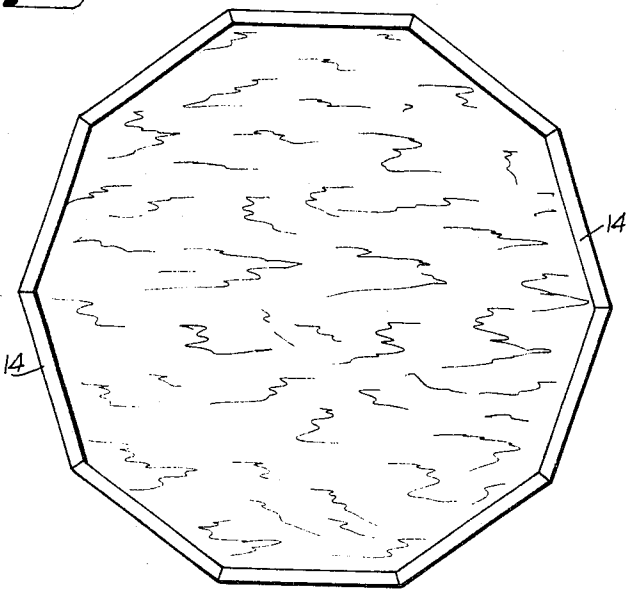


Fig. 2

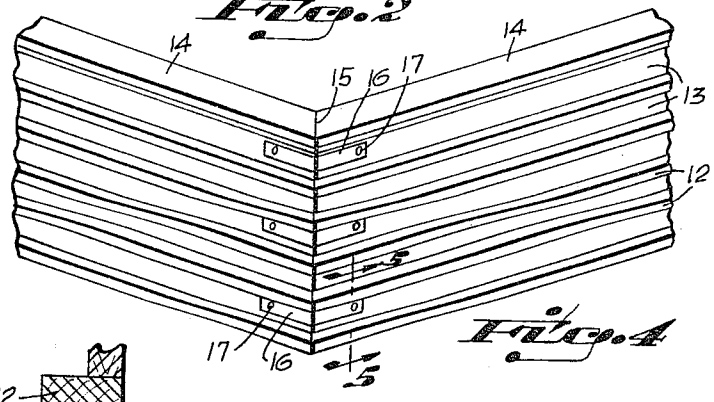


Fig. 4

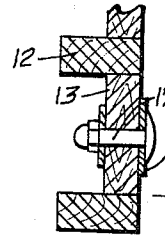


Fig. 5

INVENTOR.
LEO DELIA
BY James J. Cannon
ATTORNEY.

United States Patent Office

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PREFABRICATED SWIMMING POOL

Leo Delia, 29 Van Riper Ave., Montville, N.J.

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My invention relates to swimming pools and is directed particularly to a portable prefabricated swimming pool for above-ground installation.

The principal object of my invention is to provide an improved lightweight, prefabricated swimming pool that can be shipped and stored in knockdown form and readily assembled and disassembled by the homeowner.

A more particular object is to provide a prefabricated swimming pool of the above nature which is of polygonal shape, preferably in the shape of a decagonal polygon, to provide a multiple of short, identical, unitary side members that can be conveniently handled and stored, and which can be assembled to one another by the use of simple corner straps bolted in place.

Still another object of the invention is to provide a prefabricated swimming pool of the above nature which lends itself to inexpensive and lightweight construction by the use of standard 2 x 4 and 2 x 6 lumber, and a one-piece pool liner formed of polyvinyl sheet material.

Other objects features and advantages of the invention will be apparent from the following description when read with reference to the accompanying drawings, wherein like reference numerals denote corresponding parts throughout the several views:

FIG. 1 is a perspective view of an assembled prefabricated swimming pool embodying the invention,

FIG. 2 is a top view thereof, on a reduced scale,

FIG. 3 is a vertical cross-sectional view taken through one of the side members of the pool,

FIG. 4 is a fragmentary oblique view of an outside corner of the pool illustrating the angle straps for assembling the side members together at their junctures, and

FIG. 5 is a vertical cross-sectional view, taken along the line 5—5 of FIG. 4 in the direction of the arrows, illustrating details of the connecting bolts.

Referring now in detail to the drawings, the swimming pool illustrated in FIG. 1 embodying the invention is comprised of ten identical side members, indicated generally by the numeral **10**, arranged in the form of an equilateral decagonal polygon to provide an enclosure supporting and confining a flexible watertight liner **11** (see FIG. 3). Preferably, each of the side members **10** is about 8 feet in length to provide a pool area of about 450 square feet.

Each side member **10** is prefabricated of standard size lumber, preferably redwood. As best illustrated in FIG. 3, each side member is comprised of a plurality of vertically spaced rib members **12**, which preferably are 2" x 4" boards arranged flatwise, held in interspaced relation by spacer members **13** at one side, which are preferably 2" x 6" boards arranged edgewise. A 2" x 6" board coping member **14** is secured flat upon the uppermost rib member **12**, being centrally spaced thereon to overhang at each side. The individual boards of the side members **10** are securely held together by nailing and/or gluing to provide a solid unitary structure of about 40 inches in height.

The ends of the side members **10** are cut at an angle, as indicated at **15**, so that when they are arranged in their polygonal form upon assembly they will abut in face-to-face engagement. In the embodiment of a decagonal polygon, as is illustrated, the bevel angle will be 18 circular degrees.

As illustrated in FIGS. 1 and 4, angular straps **16** are secured against the outside surfaces of adjacent side members **10** at each corner to hold them in assembled relation. Three straps **16** bolted between the upper and lower and

central rib members **12** at each corner as by bolts **17** have been found to be sufficient for the desired strength and rigidity.

The polyvinyl liner **11** is prefabricated, such as by electronic seam welding, to conform to the prismatic shape of the assembled pool, and is secured about its upper periphery against the inside lower corners of the coping members **14** of the side members **10** as by metal angle strip clamps **18** held in place as by screws **19** (see FIG. 3). In assembling the pool, loose sand is preferably placed on the ground within the polygonal enclosure before the assembly thereto of the liner **11**, to provide a cushion at the bottom of the pool.

An important advantage of my prefabricated swimming pool is that it comprises a small number of component parts that can readily be assembled andd disassembled with the use of ordinary hand tools. Another important advantage resides in its simplicity, and the use of standard size lumber and low cost hardware and liner elements, permitting manufacture and sale at an unusually low price as compared with other portable pools of comparable size.

While I have illustrated and described herein only one form in which my invention can conveniently be embodied in practice, it is to be understood that this form is presented by way of example only and not in a limiting sense. The invention, in brief, comprises all the embodiments and modifications coming within the scope of the following claims.

What I claim as new and desire to secure by Letters Patent is:

1. A prefabricated pool comprising, in combination, a plurality of identical, substantially rectangular side members, means for securing said side members in end-to-end disposition to form a polygonal enclosure, a cup-like liner member of watertight, flexible sheet material in the shape of said enclosure, and means for securing the peripheral edge of said liner member against the peripheral edge at the inside of an enclosure formed by said side members, each of said side members comprising plurality of 2" x 4" wood board ribs secured in spaced parallel relation by interspaced 2" x 6" wood board spacer members, said ribs being arranged relatively flatwise and said spacer members being arranged edgewise at one side of said rib members.

2. A prefabricated pool as defined in claim **1** including a coping member secured flat against the uppermost rib member of each of said side members.

3. A prefabricated pool as defined in claim **1** wherein said coping member is in the form of a 2" x 6" board arranged to overhang the inside of said uppermost rib member.

4. A prefabricated pool as defined in claim **3** wherein said means for securing said liner member comprises a plurality of metal angle strip clamps removably secured against the inside corners of said coping members, and wherein said side members securing means comprises a plurality of angle straps removably secured against outside corner surfaces of adjacent ones of said side members.

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LAVERNE D. GEIGER, *Primary Examiner.*

H. GROSS, *Assistant Examiner.*