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A modular construction for children to play

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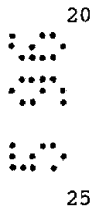
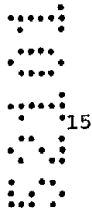
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US 3969871

ABSTRACT

A modular construction for children to play. It consists of two side parts (1) forming two ladders, connected at the bottom and top ends by a part (11) forming a seat, and by a roof-like part (7) with a handrail (8), a slide comprising two sections (13) and (14) extending from such roof to the supporting plane.

The invention is applicable for constructions based on modular parts made of a hard plastic material, which include conjugated connecting means integrated therein.



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COMPLETE SPECIFICATION
FOR A STANDARD PATENT

ORIGINAL

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Invention Title: **A MODULAR CONSTRUCTION FOR CHILDREN TO
PLAY**

The following statement is a full description of this invention, including the best method of performing it known to us

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DESCRIPTION

OBJECT

The object of the present invention is a modular construction
5 for children to play, having the arrangement and characteristics
described hereinafter.

BACKGROUND OF THE INVENTION

10 Various constructions are presently known for children to
play and consisting of a plurality of modular parts made of a hard
moulded plastic material, for instance the structure described in
Spanish Patent number 9202609, the holder of which is the very
holder of this application. Said Patent uses various parts made
15 of a moulded material having means interconnecting the parts
consisting of fitting, slipping, socketing or other systems,
excluding traditional means independent of said parts, for
instance bolts, nails and the like. The object of the subject
Patent was to provide a structure to form constructions for
20 children to play that could be easily mounted and taken apart by
an adult who was not skilled in the art.

One of the main characteristics of Spanish Patent
number 9202609 lay in upwardly rectangular shaped modular parts
having short extensions of material projecting on a different
25 plane horizontally from their vertical sides and being curved in
opposite directions to jointly define longitudinal guides,
suitable to axially receive two edges having a round section or a
section suited to the guide, thereby to obtain a slipping-assembly
of the parts.

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SUMMARY OF THE INVENTION

In order to fully describe the invention and allow the formal
and structural characteristics thereof to be easily understood,
sheets of drawings are attached to this specification showing a
35 modular construction for children to play in accordance with the
object of the invention.



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BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

Figure 1 shows the various parts altogether making up the construction.

5 Figures 2 to 13 illustrate the successive mounting stages of the parts leading to the construction being formed.

According to the present invention there is provided a modular construction for children to play comprising:

10 first and second rectangular side members, wherein each side member includes first and second upright members which have round portions, said round portions of each of said first and second upright members being joined by a plurality of cross members in the form of ladder steps;

15 at least a first elongated part having a first and second end, said first end of said elongated part connected to a bottom end of said first upright member of said first side member at a connection and said second end of said elongated part connected to a bottom end of said first upright member of said second side member at a connection, wherein said elongated part has a round portion and wherein said elongated part is perpendicular to said side members when joining said upright members; and

20 a transversely curved rectangular part having a first and second end, said first end of said rectangular part connected to said second upright member of said first side member at a connection and said second end of said rectangular part connected to said second upright member of said second side member at a connection, wherein said transversely curved rectangular part rotates between a first position and a second position, wherein said curved rectangular part forms a concave seat with a backrest

25 when in the first position and said curved rectangular part forms a convex seat having no backrest when in the second position;

30 wherein said connections are integrated conjugated connectors that operate by at least one of fitting, slipping and socketing.

35 DESCRIPTION OF A PREFERRED EMBODIMENT OF THE INVENTION

In order to clearly show the construction subject of the present invention, its several constituent parts and the mounting stages thereof are described hereinafter with reference to the drawings, which show a preferred



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embodiment for informative purposes and should therefore be construed in the broadest sense and not to limit the scope of the invention.

5 In Figure 1, where a breakdown of the constituent elements of the construction is shown, one of the side parts of the construction is numbered -1-, two of such parts -1- being provided, being log-like in shape and having pairs of extensions of material, numbered -2-, of the kind covered by Spanish Patent number 9202609, on two opposite longitudinal sides, which establish guides for
10 edges -3- that have a round section and are also covered by said priority Patent, provided in flat tree-like parts -4- of which there are two. Both parts -1- and -4- are assembled in coplanar arrangement, as shown in figures 11 and 13, parts -1- including female holes -5- destined to receive male salients -6- provided in other parts, for a socketing and turning type assembly. These male parts -6- are provided in a log roof-like rectangular part -7- and also in a part -8- making up a handrail, that is also of
20 log-like construction. This part -8- has a lower central projection -9- that fits in a notching -10- of part -7-. Other holes, similar to -5-, lying at the lower end of the upright members of parts -1-, receive spigots -6- existing in a transversely curved rectangular part -11- serving as a seat that swings about the virtual axis defined by such holes and spigots, as shown in figures 7, 8 and 9.

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30 A roller -12-, of which there are two, has spigots, similar to -6-, at its ends. One of the rollers provides a transverse connection between parts -1-, as shown in figures 5 and 6, whereas the other twin roller serves as a pin, connecting sections -13- and -14- forming a slide, the sections having perforated tabs -15- and -16- to such end. The ends of the pin -12- are supported by side parts
35 -4-. The top end of the slide is supported on the front

side of the roof part -7-, which includes notchings for a stable positioning thereof, whereas the lower end of the slide is supported directly on the ground.

5 The top end of the slide has incuts -17- for grip parts -18- to be fitted.

The tree-like parts -4- are provided with cavities -19- on their tree top-like upper ends to house fruit-like semi-spherical bodies -20-.

.....10 Parts -1- have cross members -21- serving as ladder steps allowing the roof -7- to be reached on either side of the construction. The upright members of such parts -1- have slots -26- to guide a rectangular plate -22- that is in turn provided with counter-guides -25-, thereby making the slip-type connection between such parts -1- easier. The plate -22- is of the reversible kind, one of its faces -24- being flat and serving as a table, and the other one having a rectangular recess -23- which becomes a playing cavity-sandpit.

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The claims defining the invention are as follows:

1. A modular construction for children to play comprising:

first and second rectangular side members, wherein each side member includes first and second upright members which have round portions, said round portions of each of said first and second upright members being joined by a plurality of cross members in the form of ladder steps;

at least a first elongated part having a first and second end, said first end of said elongated part connected to a bottom end of said first upright member of said first side member at a connection and said second end of said elongated part connected to a bottom end of said first upright member of said second side member at a connection, wherein said elongated part has a round portion and wherein said elongated part is perpendicular to said side members when joining said upright members; and

a transversely curved rectangular part having a first and second end, said first end of said rectangular part connected to said second upright member of said first side member at a connection and said second end of said rectangular part connected to said second upright member of said second side member at a connection, wherein said transversely curved rectangular part rotates between a first position and a second position, wherein said curved rectangular part forms a concave seat with a backrest when in the first position and said curved rectangular part forms a convex seat having no backrest when in the second position;

wherein said connections are integrated conjugated connectors that operate by at least one of fitting, slipping and socketing.

2. A modular construction for children to play, according to claim 1, further comprising:

a horizontal rectangular part connected perpendicularly to upper ends of said first and second side members with connections; and

a lattice part connected perpendicularly to said horizontal rectangular part with connections, thereby forming a handrail.



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3. A modular construction for children to play, according to claim 2, further comprising:

a first and second tree module, said first and second tree modules being planar and having a silhouette in the shape of a tree, wherein said first and second tree modules are respectively connected coplanar to said first and second side members, each said tree module including at least one fruit cavity at an upper end of said tree module and each tree module including a slide support cavity;

a plurality of fruit modules which communicate with said fruit cavity;

a slide support member; and

a top slide member and a bottom slide member connected at perforated tabs formed in said top and bottom members, said top slide member connected to said horizontal rectangular part, and said bottom member contacting the ground, said tabs include tab cavities that receive said slide support member, wherein slide support member connects to the slide support cavities and passes centrally through said tab cavities.

4. A modular construction for children to play, according to claim 3, further comprising:

a plurality of grips;

wherein said top slide member further comprises a plurality of incuts which releasably connect with said grip parts.

5. A modular construction for children to play, according to any one of the preceding claims and further comprising:

a rectangular plate with a first planar side and a second concave side, said plate including counter guides;

wherein said upright members include slots for cooperating with said counter guides which releasably connect with said counter guides.

6. A modular construction for children to play, according to claim 5, wherein said first planar side of said rectangular plate



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is in the shape of a table top and said second side of said rectangular plate is in the shape of a box-sandpit.

7. A modular construction for children to play substantially as
5 hereinbefore described with reference to the drawings.

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FIG.1

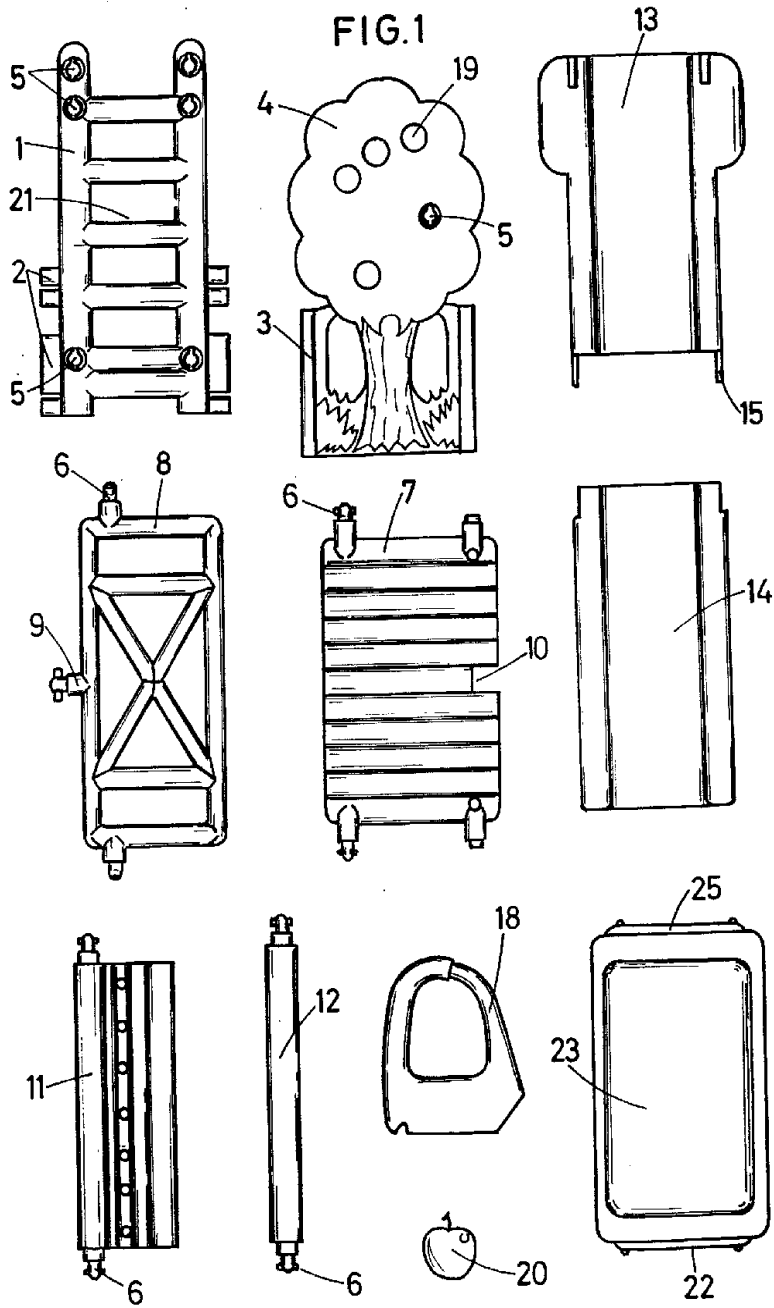


FIG.2

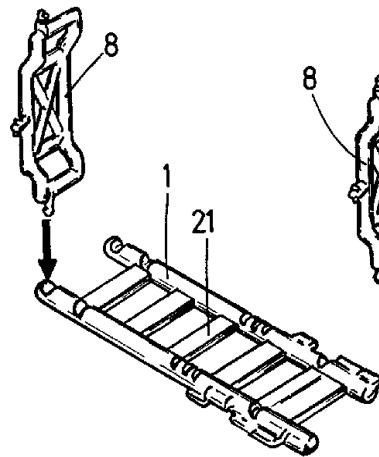


FIG.3

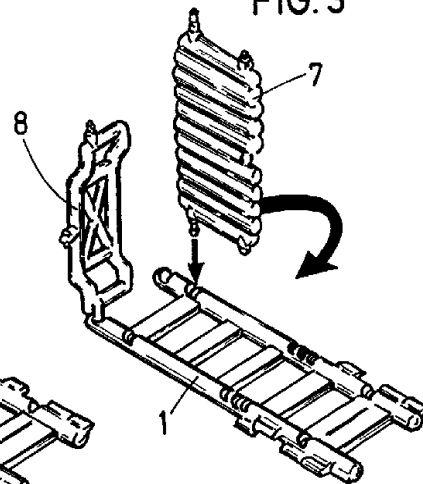


FIG.4

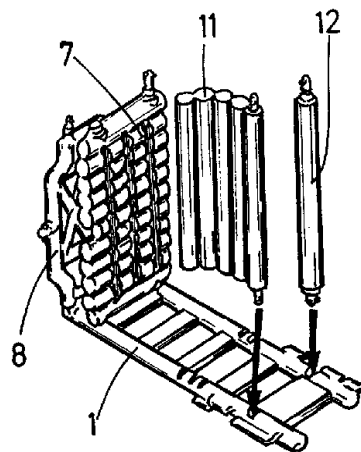


FIG.5

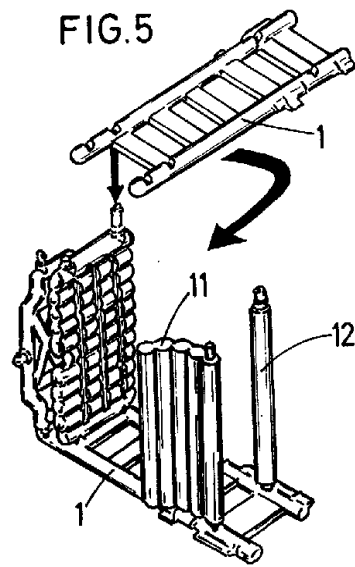


FIG.6

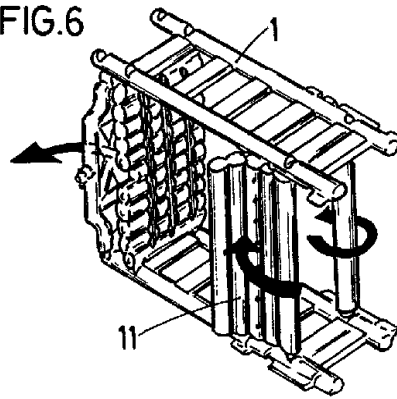


FIG.7

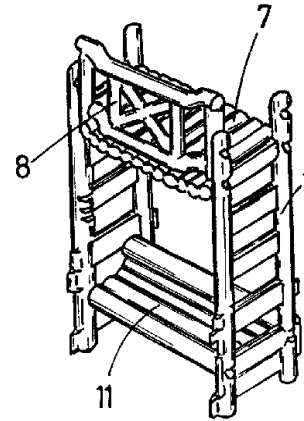


FIG.8

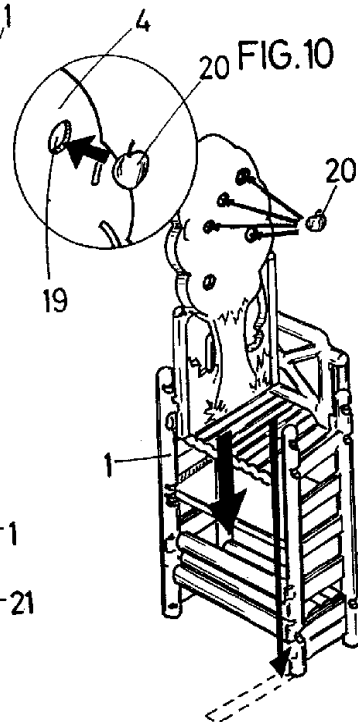
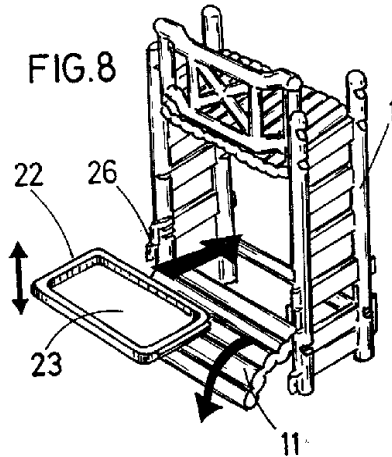


FIG.9

