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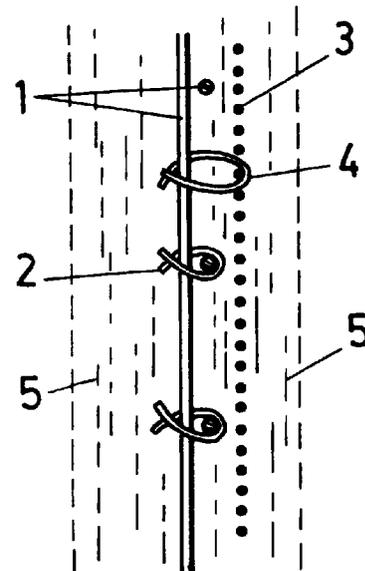
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(54) **SIMPLIFIED CONSTRUCTION PROCESS FOR BUILDINGS AND FENCES**

(57) It applies to a membrane of rapid and cheap construction, based on three components only: rods (1) joined by tying (2) or welding; absorbent and porous fabric (3) tied (4) to said rods, the fabric being of the sackcloth type; and, finally, mortar (5) projected to the face of said fabric and to the other face of the tied rod structure.



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Description

OBJECT OF THE INVENTION

The invention being advocated consists in a simplified construction procedure applicable to buildings, construction elements, fences, etc., with antiseismic, antiradioactive and eventually antielectromagnetic features, formally defining all nature of configurations, including non-adjusted double-curve shapes which provide considerable compression and tensile strength, characteristic in that it comprises a low-cost, rapidly constructed panel based on three components: rods secured by binding or welding; an absorbent, porous, burlap-type weave; and mortar applied to both the weave side and the other side, which has been fitted beforehand with the bound rod structure.

BACKGROUND OF THE INVENTION

The applicant is the owner of invention patent application No. 9302495, titled "Double-curve, non-adjusted, antiseismic, antiradioactive, antielectromagnetic, free-shape construction procedure".

This invention characterizes all types of architectural shapes and allows for all nature of coverings, and is based on a panel that includes five components: wire-type binding thread; round reinforcement rods; a flexible, resilient metal framework; an absorbent porous weave; and a variable composition cement mortar.

DESCRIPTION OF THE INVENTION

The invention that is the object of this specification refers to an improved construction procedure applicable to buildings and fences with antiseismic, antiradioactive and antielectromagnetic features, the latter in the event that iron rods are used, of the type including adjusted or non-adjusted double-curve shapes which provide considerable compression and tensile strength, characteristic in that the procedure involves a low-cost, rapidly constructed panel.

The building of the panel involves only two professions, namely that of the iron rod layer and that of the mortar layer, and is based on the consecutive fitting of the three construction components after conventional land preparation and excavation at the building work site.

According to the application sequence, the panel comprises rods with a sufficiently high structural stiffness, particularly iron, although other pre-stressed or non-stressed plastic materials may be used - i.e. carbon fiber, etc. - if an antielectromagnetic execution is called for.

The rods are attached to each other with binding or welding material, the characteristics of which must adjust to those of the rod material.

An absorbent, porous, burlap-type weave is then

applied over and tied to this reinforced structure in a preset spacing.

Finally, the mortar is applied, according to the preferred sequence, onto the free side of the weave and onto the other side, which obviously has been fitted beforehand with the above-mentioned bound rod structure.

The mortar, composed of cement and aggregates, may incorporate various components, including a waterproofing and a heat insulating product, such as vermiculite, perlite, etc.

Furthermore and in certain cases, white cement, marble dust and coloring agents for the finishing paint of the building may be added.

If the construction is antiradioactive, the additional component would be lead pellets or some other lead-based product.

DESCRIPTION OF THE DRAWING

In order to complement the description and provide a fuller and easier understanding of the characteristics of the invention, a drawing is attached to this specification, forming an integral part thereof, in which the following is depicted in an illustrative and non-limiting character:

The single figure is a section of the panel according to this invention, showing the components thereof.

PREFERRED EMBODIMENT OF THE INVENTION

Based on the foregoing, the present invention refers to a simplified construction procedure applicable to buildings and fences with antiseismic, antiradioactive and antielectromagnetic features, of the type involving double-curve shapes which provide considerable compression and tensile strength, essentially characteristic in that non-adjusted double-curve construction is enabled through a low-cost rapidly built panel based on only three panel components, two of which are rods (1) made of an appropriate material, the rods being secured to each other by binding (2) or welding, an absorbent, porous, burlap-type weave (3) then being tied (4) to this structure.

The third component is mortar (5), applied over both sides of the assembly, comprising cement and aggregates and which may additionally incorporate various components, including a waterproofing and a heat insulating product, such as vermiculite, perlite, etc., and optionally white cement, marble dust and coloring agents for the finishing paint of the building, in addition to lead pellets or some other type of lead-based product.

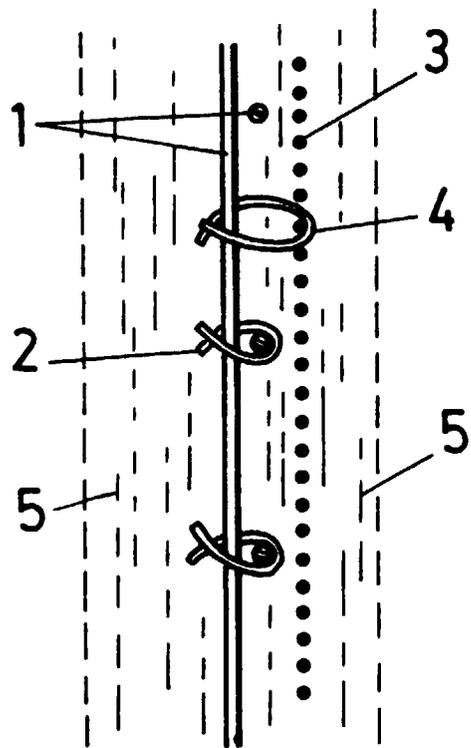
This description need not be more extensive in the understanding that an expert on the subject will have sufficient information to comprehend the scope of the invention and the advantages deriving therefrom, and to reproduce it.

It should be understood that, provided the essence of the invention is not altered, the materials, shape, size and arrangement of the elements are liable to modification.

The terms used in the description and the sense of the description must be construed in a non-limiting fashion.

Claims

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1. A simplified construction procedure applicable to buildings and fences with antiseismic and antiradioactive, and occasionally antielectromagnetic, features, of the type involving double-curve shapes having considerable compression and tensile strength, essentially characteristic in that a non-adjusted double-curve construction is enabled through low-cost rapidly-built panels based on only three panel components, namely rods (1) made of an appropriate material and secured to each other by binding (2) or welding; an absorbent, porous, burlap-type weave (3) tied (4) to this structure; and finally mortar (5) applied to both sides of the assembly.
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 2. A simplified construction procedure applicable to buildings and fences, according to the preceding claim, wherein the mortar (5), comprising cement and aggregates, is characteristic in that it incorporates various components, including a waterproofing and a heat insulating product, such as vermiculite, perlite, etc., and optionally white cement, marble dust and various coloring agents, in addition to lead pellets or some other type of lead-based product.
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/ES 96/00124

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 E04H9/00 E04B2/84		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 6 E04H E04B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ES,A,2 081 253 (ALVAREZ YELA MOISES) 16 February 1996 cited in the application see the whole document ---	1,2
X	US,A,4 352 260 (PEARCEY LEROY G ET AL) 5 October 1982 see the whole document ---	1
A	GB,A,2 195 374 (YELA MOISES ALVAREZ;BYRNE FRANCISCO VALCARCEL) 7 April 1988 see the whole document ---	1,2
A	US,A,2 948 047 (PEELER LAWRENCE F.) 9 August 1960 see the whole document ---	1
	-/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 23 January 1997		Date of mailing of the international search report 28.02.97
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+ 31-70) 340-3016		Authorized officer PEREZ MENDEZ, J

INTERNATIONAL SEARCH REPORT

International Application No
PCT/ES 96/00124

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US,A,3 922 832 (DICKER EDWARD T) 2 December 1975 -----	