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AN OPTIMAL CONSTRUCTION SYSTEM FOR BUILDINGS AND A METHOD OF USING THREE ELEMENTS AND THEIR COMPONENTS

(57) The present invention is referred to a building structure, more particularly to the structure involving the main three elements. The elements are structural insulated panels (SIP) (1) and insulated connectors (2, 3) and parts thereof, which are adapted by cutting, dissecting or joining. These elements are of respective dimensions and made of materials with respective properties that when joining them and their parts together in a certain manner, securing with nails, screws or wood screws, and sealing the joining points with mounting foam, a closed, tight shell-type frame structure of the building is obtained. Thermal bridges are prevented due to insulated connectors applied. The shell type structure provides the building with the spatial stability, tightness, lightness, and thermal efficiency. Blocks assembled from such elements can be used for floors, walls, slabs and roofs in residential, commercial or individual buildings. These elements are universal; therefore, there is no need for a specific project design - availability of continuous manufacturing at the workshop and delivery to the warehouse. There are no concentrated loads, and no need for traditional foundations. It is just necessary for construction to prepare the site of compacted soil/gravel and arrange engineering network piping. The construction cost is considerably reduced due to universal application of three ele-

ments and their parts of the system, and effectiveness obtained, and continuous manufacturing to store in warehouse.

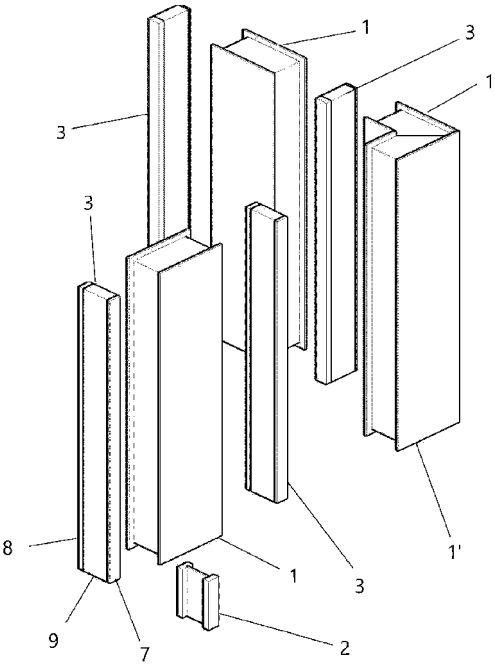


Fig. 1



EUROPEAN SEARCH REPORT

Application Number

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	US 5 003 742 A (DETTBARN RICHARD [CA]) 2 April 1991 (1991-04-02) * column 1, line 62 - column 2, line 51; figures 1-7 *	1-11	E04B1/26 E04B1/348 E04B7/22 E04C2/296 E04C2/38
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The present search report has been drawn up for all claims			

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Place of search	Date of completion of the search	Examiner
Munich	17 July 2024	Giannakou, Evangelia
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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