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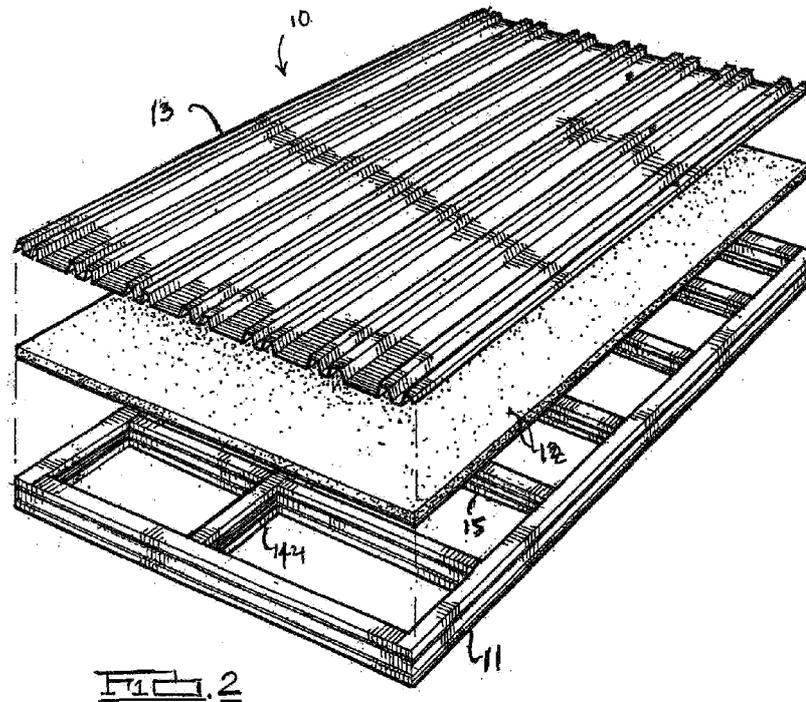
Declarations under Rule 4.17 :

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(54) Title: PANELIZED ROOFING SYSTEM



(57) Abstract: A panelized roofing system adapted to be mounted on top of the wall of a housing unit that includes a predetermined length of a roof frame, an insulation secured on top of said roof frame, and a roofing secured on top of said insulation adapted to be conveniently mounted on top a housing unit that that allows for quicker and easier installation, saving on time and labor costs. There is no need for the existing framing system that is installed prior to the roof that is difficult to install, expensive and time consuming.

WO 2016/089231 A1

SPECIFICATION

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PANELIZED ROOFING SYSTEM

FIELD OF THE INVENTION

This utility model relates generally to roofing system and, more particularly to a panelized roofing system.

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BACKGROUND OF THE INVENTION

There are many existing different types of roofing system that utilizes a framing system for its installation nowadays, and each of them exhibits different technical features adapted for its convenient use. However, though they are found to be useful from some point of view, experience dictates that it takes a long time for its installation due to its complicated structures and costly as well.

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OBJECT OF THE INVENTION

Accordingly, it is the principal object of subject invention is to remedy the aforementioned drawbacks by providing for a panelized roofing system that is pre-fabricated consisting of a roofing, an insulation and a roof frame adapted to be conveniently mounted on top a housing unit that that allows for quicker and easier installation, saving on time and labor costs. There is no need for the existing framing system that is installed prior to the roof that is difficult to install, expensive and time consuming.

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Another object of this invention is to provide for panelized roofing system that utilizes conventional roofing panels.

Still another object of this invention is to provide for a panelized roofing system having a roof frame made of galvanized steel.

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Yet, another object of this invention is to provide for panelized roofing system that could be manufactured locally at a reasonable cost.

5 Other objects and advantages of subject invention will be apparent upon reading the following description, taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of a panelized roofing system embodying subject invention;

10 FIG. 2 is an exploded perspective of FIG. 1;

FIG. 3 is another perspective of FIG. 1 in assembled position mounted to a housing unit;

FIG. 4 is a sectional view taken along line 4-4 of FIG. 3;

FIG. 5 is a magnified view taken along A of FIG. 4;

15 FIG. 6 is a magnified view taken from B of FIG. 4;

FIG. 7 is a magnified view taken from C of FIG. 4;

FIG. 8 is an isolated sectional view of FIG.7 showing the collar plate showing the connection of the two ends of the rafter; and

20 FIG. 9 is a magnified view taken from D of FIG. 4.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings in detail, wherein like numerals designate same parts throughout, there, is shown in the drawings particularly in FIGS 1- 3, my invention of a panelized roofing system generally designated as 10 adapted to be mounted to a housing member H, which includes a predetermined length of a roof frame 11, an insulation 12 secured on top of said roofing frame 11, and a roofing 13 secured on top of said insulation 12.

As shown in FIG. 2, this roof frame 11 that is preferably made of galvanized steel material has a horizontal brace 14 connected perpendicularly to its vertical braces 15.

Mounted on top of this roof frame 11 is the insulation 12 by means of a preferred mounting means such as a screw (not shown).

5 The roofing 13 is defined by a conventional roofing sheet that is mounted on top of said insulation 12 also by means of preferred mounting means such as a screw (not shown).

10 In use, this prefab panelized roofing system 10 is mounted to a prefab housing member H having a window W and a door D as shown in FIG.3. This is done by mounting the predetermined length of the panelized roofing system 10 to the wall 16 of the housing member H. As shown in FIGS. 4 and 5, a hold down straps 17 and 18 are oppositely secured on top of said wall 16 and said panelized roofing system 10 by means of flat head screws 19,20 and steel tek screws 21,22, respectively. Then the opposite panelized roofing system 10A follows as shown in FIG. 3 in the same manner as aforesaid described.

20 Angular top and bottom plate connectors 23 24 are used to connect the upper ends of said panelized roofing system 10 and 10A by means of opposed screws 25,26 respectively. Then, a collar plate 27 is mounted for covering this connection.

Mounted at the other ends of said panelized roofing system 10,10A are false fascia 28 and 29 as shown in FIGS. 4 and 9, to where a downspout 30, 31 respectively is connected.

25 This panelized roofing system has a size of 6m. as required in most homes. But sizes up to 12m, long, can be produced making this roof frame 11 thicker to 1.2mm. to support the whole length.

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I CLAIM:

5 }. A panelized roofing system adapted to be mounted on top of the wall of a housing unit comprising:

 a predetermined length of a roof frame, an insulation secured on top of said roof frame, and a roofing secured on top of said insulation.

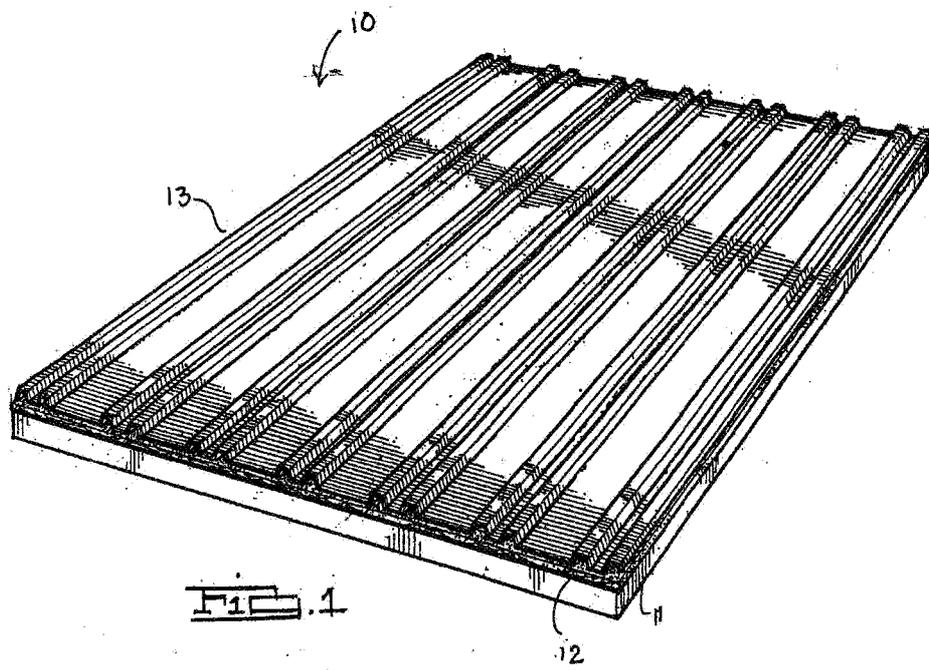
10 2. A panelized roofing system in accordance with claim 1, wherein said roof frame is preferably made of galvanized steel.

 3. A panelized roofing system in accordance with claim 1, wherein said roofing is a conventional roofing sheet.

15 4. A panelized roofing system in accordance with claim 1, wherein on top of said housing unit are provided with opposed panelized roofing system connected thereon with angular plate connectors.

20 5. A panelized roofing system in accordance with claim 1, wherein said roof frame has a horizontal brace connected perpendicularly to its vertical braces.

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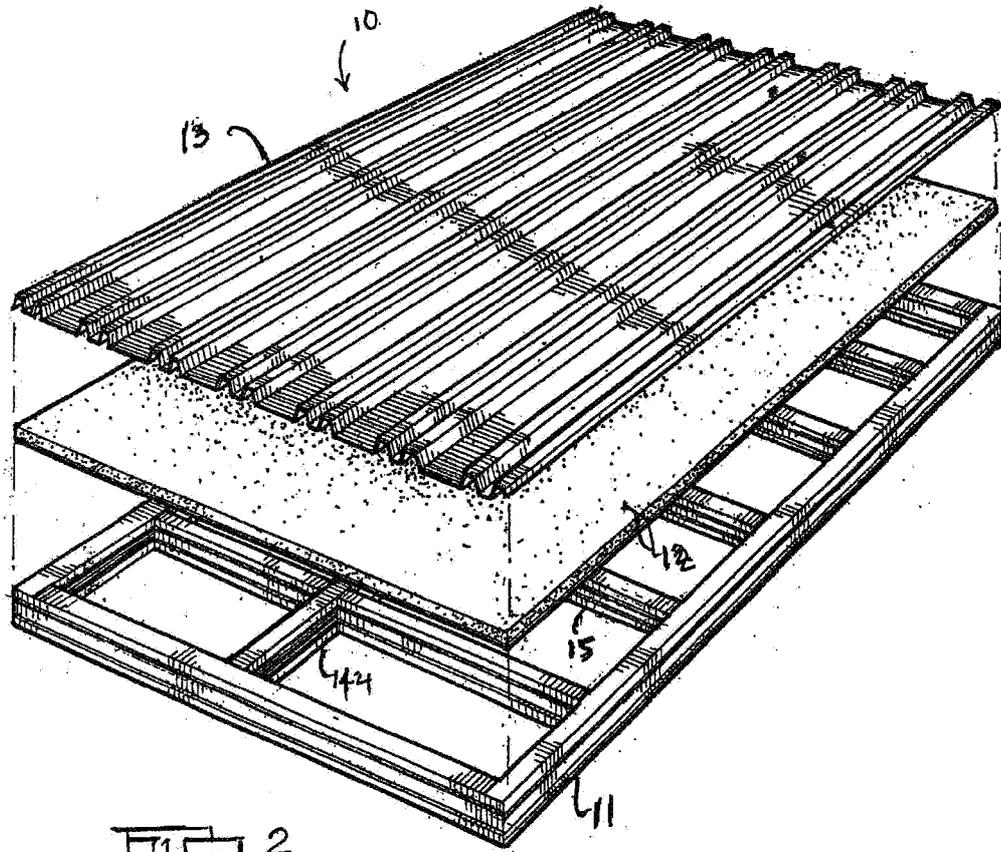
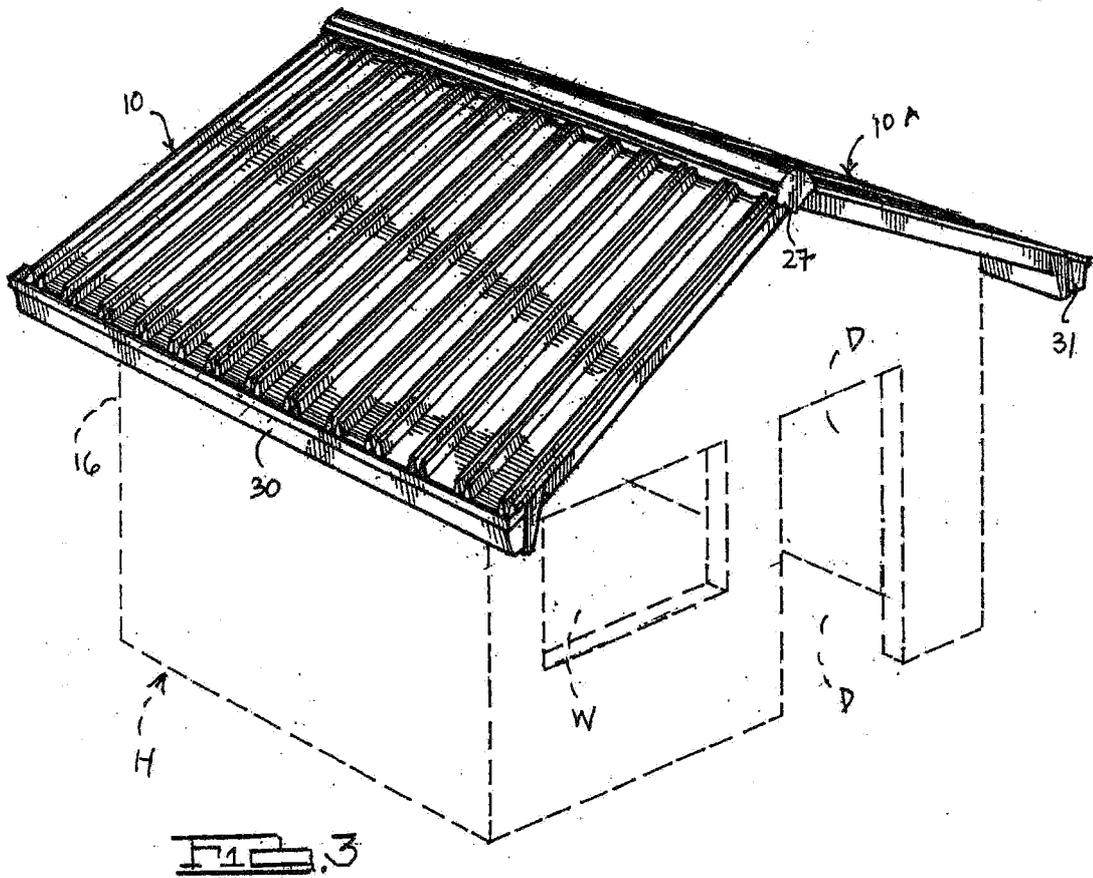
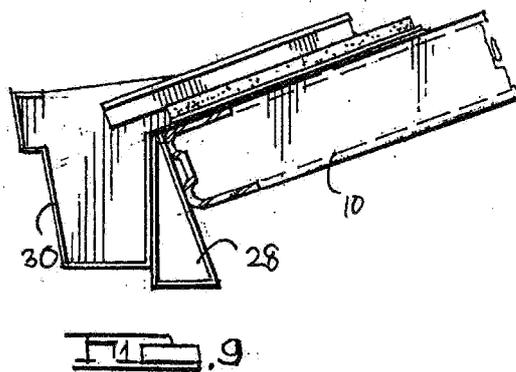
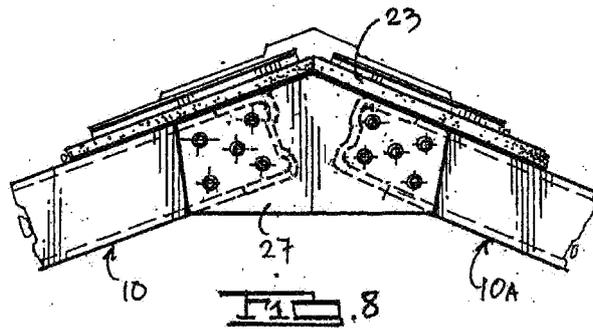
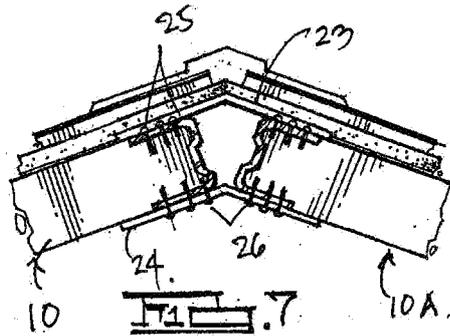


FIG. 2





INTERNATIONAL SEARCH REPORT

International application No
PCT/PH2014/000021

A. CLASSIFICATION OF SUBJECT MATTER
INV. E04B7/22
ADD.
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)
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 practicable, search terms used)
EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	wo 2012/151665 AI (NOVAK LARRI E A [CA] ; PHI LIBERT CARL [CA] ; RONAN ANDREW [CA] ; LEE JAMES) 15 November 2012 (2012-11-15) page 23, lines 5-21 ; figures 17a, 17b, 21a, 21b	1-5
X	US 2008/184651 AI (BOWMAN JAY J [US]) 7 August 2008 (2008-08-07) paragraphs [0092] , [0097] , [0101] - [0102] ; figure 11	1-3
X	DE 31 10 657 AI (JUNGBLUTH OTTO; BERNER KLAUS DR ING) 14 October 1982 (1982-10-14) figures 3-4	1-3
Y		4
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Further documents are listed in the continuation of Box C.

See patent family annex.

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"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	"&" document member of the same patent family

Date of the actual completion of the international search 24 March 2015	Date of mailing of the international search report 31/03/2015
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Leroux, Corenti ne
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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	wo 96/41925 AI (E P S AUSTRALIA PTY LTD [AU] ; MASSEY JOHN RICHARD [AU] ; SMEE DANI EL R0) 27 December 1996 (1996-12-27) figure 4 -----	4
Y	US 2014/165487 AI (MI RMI RAN AMI R [US] ET AL) 19 June 2014 (2014-06-19) figure 9 -----	4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/PH2014/000021
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US 2014165487 A1	19-06-2014	NONE	