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**Declarations under Rule 4.17:**

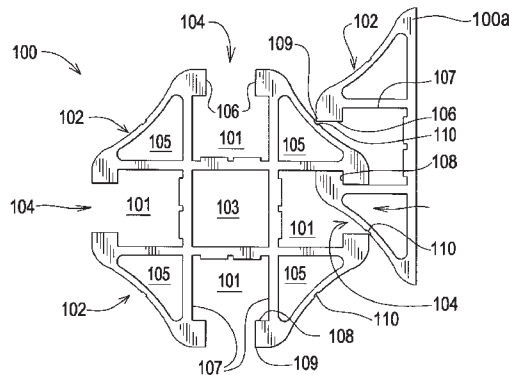
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

**Published:**

- with international search report (Art. 21(3))

[Continued on next page]

(54) Title: INTERLOCKING SHAPE FOR USE IN CONSTRUCTION MEMBERS



**FIG.1**

(57) Abstract: Interlocking support posts form an interlocking rack system which may have a single mold which provides both a male and a female joinder member. Between the support posts can be mounted panels such as solar panels. Under the support posts can be installed a roof stand off assembly which prevents water from weakening the roof. Various combinations of construction members offer a cost effective building block array of mounting panels, wind turbines, and any appliance on a roof and/or anywhere in a building. A two recess mounting bracket is ideally suited to mount solar panels on a roof. A lower recess can be fastened to a bolt anchor on the roof. The opposing recess can secure a mounting clip which attaches directly to the solar panel. Identical support posts can interlock. Various embodiments include conduit clasps, slider tracks, mounts for cabinets, sign posts, and through roof screwed anchors.



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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2010/023282****A. CLASSIFICATION OF SUBJECT MATTER****E04D 13/18(2006.01)i, E04D 13/155(2006.01)i**

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)

E04D 13/18; E04D 13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models  
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; Keywords: interlock, lip, jaw, post, frame, anchor.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5746839 A1 (THOMAS L. DINWOODIE) 05 May 1998 See abstract and column 2, line 37 - column 3, line 16 and figures 1A - 4B.	1-25,27
A	WO 2007-079584 A2 (MSR INNOVATIONS INC. et al.) 19 July 2007 See abstract and page 7, line 4 - page 8, line 26 and figures 3 - 6.	1-25,27
A	JP 11-324259 A (SHARP CORP.) 26 November 1999 See abstract and paragraphs [0029] - [0036] and figures 1 - 8.	1-25,27
A	JP 2006-144268 A (MATSUSHITA ELECTRIC WORKS CO., LTD.) 08 June 2006 See paragraphs [0011] - [0018] and figures 1 - 8.	1-25,27
X	JP 08-193392 A (NAKAWAKI CO., LTD.) 30 July 1996 See paragraphs [0014] - [0016] and figures 1 - 5.	26

 Further documents are listed in the continuation of Box C. See patent family annex.

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"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

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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**PCT/US2010/023282**

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