

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 November 2003 (27.11.2003)

PCT

(10) International Publication Number
WO 2003/098405 A3

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- (51) International Patent Classification⁷: **E04B 2/00** (81) Designated State (*national*): GB.
- (21) International Application Number: PCT/US2003/009831 (84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).
- (22) International Filing Date: 31 March 2003 (31.03.2003)
- (25) Filing Language: English **Published:**
— *with international search report*
- (26) Publication Language: English — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- (30) Priority Data: 60/380,465 15 May 2002 (15.05.2002) US
- (71) Applicant and (88) Date of publication of the international search report:
19 February 2004
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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(54) Title: MODULAR STRUCTURES AND CONNECTOR ASSEMBLY APPARATUS

(57) Abstract: Disclosed is a modular construction system (MCS) for knock down structures. It is illustrated by three structures, each having connecting portions detachably secured to one another by Trapezoidal Quick Slide Connector Assemblies, also disclosed, that enable a user to erect, without tools, a pre-designed structure. The male and female connector components comprise flat trapezoids that can be mated by sliding the narrow end of the male connector component into the wide end of the female connector component. Structures according to this system include a plurality of interchangeable parts, each formed of a rigid material such as, illustratively, metal, plastic, fiberglass, or wood. The system allows maximum flexibility in structural configuration and permits a user to assemble a structure and also disassemble and move it without the use of any tools. Also disclosed is a manufacturing device for quickly and accurately positioning connector components taught in this patent for mounting on the modular construction parts that are to be connected.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/09831

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E04B 2/00
 US CL : 52/653.1, 578, 588

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)
 U.S. : 52/653.1, 578, 588

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,165,213 A (Finch et al) 24 November 1992 (24.11.1992), entire document	1, 3, 4
A	US 5,348,778 A (Knipp et al) 20 September 1994 (20.09.1994), entire document.	1-14
A	US 5,802,798 A (Martens) 8 September 1998 (08.09.1998), entire document	1-14

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	"&" document member of the same patent family
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Date of the actual completion of the international search

24 October 2003 (24.10.2003)

Date of mailing of the international search report

29 DEC 2003

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 Mail Stop PCT, Attn: ISA/US
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