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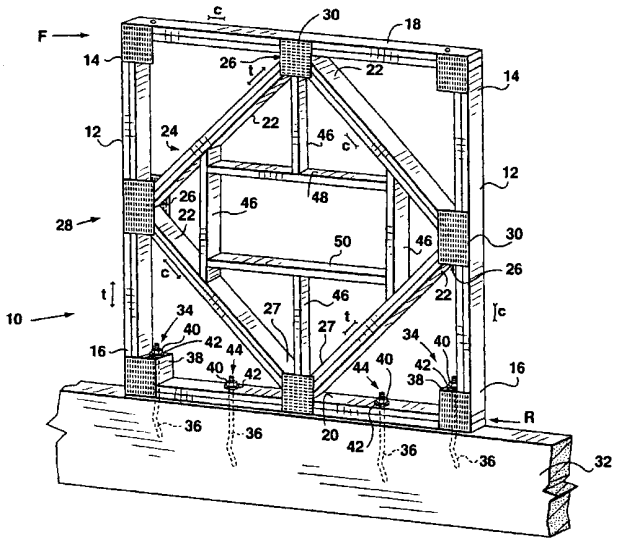
(84) Designated States *(regional)*: European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published:
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1 November 2001

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.

(54) Title: SHEAR WALL PANEL



(57) Abstract: A shear wall panel for a building has a rectangular frame of vertical and horizontal members. Inside of the rectangular frame, at least four diagonal members are joined at their ends to create a multi-segmented assembly having at least three vertices and first and second ends and preferably forming a polygon, one of the at least three vertices secured to each of the vertical and an upper horizontal members, the first and second ends secured to a lower horizontal member. The members are preferably of wood and connected together with toothed plates. The panel is shear connected to a foundation or laterally stabilized wall or floor below the shear wall panel. Upper strap connectors attach the upper horizontal member to a roof, floor or wall of the building. The upper strap connectors comprises metal straps, a first portion of which have teeth bent out of the metal strap, a second portion of which have holes for nailing through the metal strap into the roof, floor or wall of the building.

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INTERNATIONAL SEARCH REPORT

Int ional Application No
PCT/CA 00/01221

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E04B1/10 E04C2/38

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 7 E04B E04C

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)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	WO 98 46839 A (SHEAR TRANSFER SYSTEMS INC) 22 October 1998 (1998-10-22) the whole document	1-3,10, 16 17 11
Y	US 4 875 314 A (BOILEN KENNETH T) 24 October 1989 (1989-10-24) the whole document	17
X	AU 15051 83 A (HALL R) 1 December 1983 (1983-12-01) page 5, line 24 -page 8, line 18 page 9, line 16 -page 10, line 24; figures	1,2,6, 10,16
X	US 1 622 962 A (MICHOD) 29 March 1927 (1927-03-29) page 2, line 90 - line 100; figure 2	1,2

☐ Further documents are listed in the continuation of box C.

☒ 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	Date of mailing of the international search report
16 January 2001	10. 05. 2001

Name and mailing address of the ISA	Authorized officer
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	FORDHAM, A

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Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

:rnational application No.
PCT/CA 00/01221

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-6, 10-12, 16, 17

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-6, 10-12,16,17

   A shear wall panel whose vertically oriented connectors connected to the lower ends of each of its vertical members comprise a block of wood oriented with the grain substantially vertical.

2. Claims: 7-9,13-15

   A metal strap for connecting substantially abutting wooden members, a first portion of which has teeth bent out of it and a second portion of which has holes for nailing through it, and a shear wall panel comprising such a strap.

INTERNATIONAL SEARCH REPORT

.nformation on patent family members

Intr tional Application No
PCT/CA 00/01221

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