(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 0 864 529 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
03.11.1999 Bulletin 1999/44

(43) Date of publication A2:
16.09.1998 Bulletin 1998/38

(21) Application number: **98104017.3**

(22) Date of filing: **06.03.1998**

(51) Int. Cl.[6]: **B21D 47/02**, E04C 3/08

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **12.03.1997 NO 971150**

(71) Applicant: **Juralco A/S**
0483 Oslo (NO)

(72) Inventors:
- **Heglund, Kim, H.**
1315 Nesoya (NO)
- **Larsen, Jon, R.**
1262 Oslo (NO)
- **Olborg, Chris**
0455 Oslo (NO)
- **Solberg, Sven A.**
3113 Tonsberg (NO)

(74) Representative:
Nielsen, Leif et al
Patrade A/S
Aaboulevarden 21
8000 Aarhus C (DK)

(54) Building elements

(57) This invention relates to a method for producing building elements, and the resulting building elements, in which the method comprises the following steps:

a) fastening of a plurality of coupling devices (3,4) along at least one intermediate part (2), with an essentially equal mutual distance between them in the longitudinal direction of the intermediate part(s), the coupling devices each being adapted to couple two intermediate parts or one intermediate part (2) and one outer part (1),
b) using per se known equipment pulling the coupling devices (3,4) transversely of the longitudinal direction of the intermediate parts, the intermediate parts thus obtaining a zigzag shape, and
c) fastening of the outer parts (1) to the coupling devices (3) on each side of the intermediate part(s) (2).

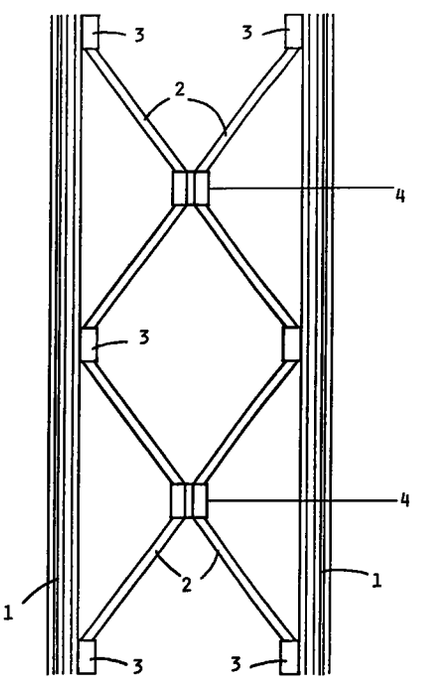


FIG. 2

EP 0 864 529 A3

European Patent Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 10 4017

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US 1 927 443 A (LAUFLE) 19 September 1933 (1933-09-19) * figures 6-9; example 1 *	1,3	B21D47/02 E04C3/08
A	US 2 464 432 A (BRICKMAN) 15 March 1949 (1949-03-15) * column 2, line 13 - column 2, line 25 * * figures 1-4 *	1,3	
A	EP 0 644 304 A (KLEIN BERND) 22 March 1995 (1995-03-22) * figures 12-18 *	3-5,7,9, 10	
A	US 4 892 438 A (MORRISON DONALD R) 9 January 1989 (1989-01-09) * claim 1; figures 1-4 *	3	
A	US 2 031 765 A (FERGUSON) 25 February 1936 (1936-02-25) * claim 1; figures 1-5 *	1,3	

TECHNICAL FIELDS SEARCHED (Int.Cl.6)

B21D
E04C
B21F

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	13 September 1999	Hendrickx, X

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

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 98 10 4017

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-09-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 1927443 A	19-09-1933	NONE	
US 2464432 A	15-03-1949	NONE	
EP 0644304 A	22-03-1995	DE 4315779 A	17-11-1994
US 4892438 A	09-01-1989	NONE	
US 2031765 A	25-02-1936	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82