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(54) **Furniture and method of assembling furniture**

(57) A piece of furniture, for example a chair (2), with integrated shell (4) forming a furniture part, e.g. a seat (6) and a backrest (8), and a number of legs (10), e.g. four legs that are fastened at the underside of the furniture part or the seat (6), where the shell (4) is made by injection moulding of fibre reinforced plastic, and where the furniture part or seat (6) is provided with sockets (22) at the underside for receiving and retaining end parts (16) of the legs (10) which have identical shape. The legs (10) are made of steel with elongated, straight parts (12) and end parts (16) angularly bent in relation thereto and designed with an elongated conical guide pin (18) with external grooves. The sockets (22) at the underside of the furniture part or seat (6) are designed with an internal shape which is complementary to the external grooves (18) of the end parts (16) of the legs (10). Moreover, there is disclosed a method for establishing a joint, e.g. a furniture joint. In a very simple way is hereby provided a furniture or a chair adapted for packing and shipping in separated condition, and which subsequently is readily assembled by the consumer in a simple and unambiguously correct way.

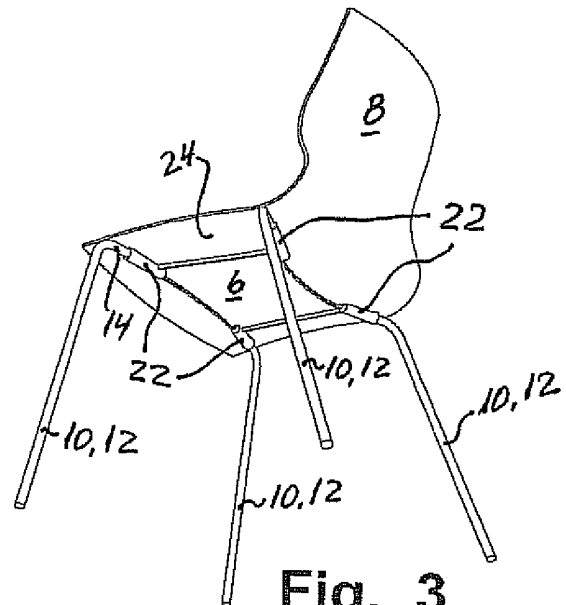


Fig. 3

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
X,Y	EP 1 247 475 A (OPSVIK PETER AS [NO]) 9 October 2002 (2002-10-09) * paragraphs [0006], [0010]; figures 2,5 *	1-3,5,6	INV. A47C4/02	
X,Y	----- DE 77 07 415 U1 (CALLIGARIS S.N.C., MANZANO, UDINE) 1 September 1977 (1977-09-01) * page 3, paragraph 2 * * page 3, line 35 - page 4, line 7 * * page 4, paragraph 4 - page 5, paragraph 1 * * page 6, paragraphs 1,2 *	1-3,5,6		
X	----- EP 1 407 693 A (DAUPHIN FRIEDRICH W GMBH [DE]) 14 April 2004 (2004-04-14) * paragraphs [0016] - [0018] *	1,2		
Y	----- EP 1 199 010 A (DRAKE CORP [US]) 24 April 2002 (2002-04-24) * paragraphs [0048], [0049] *	1		
Y	----- GB 20226 A A.D. 1897 (NELSON WILLIAM HENRY) 9 July 1898 (1898-07-09) * page 2, lines 28-31 * * page 3, line 55 - page 4, line 2 *	3		TECHNICAL FIELDS SEARCHED (IPC)
Y	----- EP 0 865 746 A (M F METAL FORNITURE SRL [IT]) 23 September 1998 (1998-09-23) * column 2, lines 8-15; figure 5 * * column 4, lines 23-35 *	3		A47C
Y	----- US 3 058 777 A (FROEDGE ANDREW L) 16 October 1962 (1962-10-16) * the whole document *	3		
A	----- FR 1 005 196 A (LUX SOC) 7 April 1952 (1952-04-07) * the whole document *	3		
----- The present search report has been drawn up for all claims -----				
Place of search Munich		Date of completion of the search 15 January 2009	Examiner Lassen, Steen D.	
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		

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EPO FORM 1503 03.82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- 1-9
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9

The essence of claim 1 (with dependent claim 2-9) resides in the combination of a injection moulded furniture part with integral sockets for receiving and attaching the legs of the piece of furniture in question, said legs all being identical.

2. claim: 10

Claim 10 addresses a method for establishing a joint in a broad sense and only as an example between the legs of a piece of furniture and a furniture part, the essence residing in the particular, mechanical characteristics of the co-acting portions of the elements to be assembled.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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
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15-01-2009

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1247475	A	09-10-2002	NO	20011711 A	07-10-2002
DE 7707415	U1	01-09-1977	FR	2344205 A7	07-10-1977
EP 1407693	A	14-04-2004	AT	376788 T	15-11-2007
			CA	2444386 A1	10-04-2004
			DE	10247346 A1	22-04-2004
			US	2004075316 A1	22-04-2004
EP 1199010	A	24-04-2002	CA	2353766 A1	03-04-2002
			IT	MI20000553 U1	03-04-2002
			US	2002043865 A1	18-04-2002
GB 189720226	A	09-07-1898	NONE		
EP 0865746	A	23-09-1998	AT	232056 T	15-02-2003
			DE	69811133 D1	13-03-2003
			DE	69811133 T2	09-10-2003
			ES	2187840 T3	16-06-2003
			IT	UD970050 A1	21-09-1998
			US	5988755 A	23-11-1999
US 3058777	A	16-10-1962	NONE		
FR 1005196	A	07-04-1952	NONE		