



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 87 77 58

Classification of the application (IPC):
B21D 43/28, B21D 43/00, B21F 23/00, B21D 11/12, B26D 3/16

Technical fields searched (IPC):
B21D, B21F, B61B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	FR 2675065 A1 (CHEMICAL PAUL) 16 October 1992 (1992-10-16)	1, 9-11
Y	* page 4, line 25 - page 6, line 28; figures 1,2 *	4, 5, 7
Y	DE 202005011269 U1 (HACKENFORT GUENTER [DE]) 29 September 2005 (2005-09-29) * paragraph [0019]; figure 3 * * paragraph [0022]; figure 6 *	4, 5, 7
X	ES 2241392 A1 (FERRALLADOS ALAMEDA S L [ES]) 16 October 2005 (2005-10-16) * column 3, line 42 - column 4, line 60; figures 1-3 *	1-3, 6, 8, 10, 11
A	DE 2718744 A1 (PEDDINGHAUS CARL ULLRICH DR) 02 November 1978 (1978-11-02) * page 8, last paragraph - page 9, last paragraph; figure 1 *	1-11
A	GB 1560351 A (PEDDINGHAUS CARL ULLRICH DR) 06 February 1980 (1980-02-06) * page 3, line 31 - line 108; figures 1,2 *	1-11
A	GB 1432038 A (KUDERLI HOLDING AG ZUERICH) 14 April 1976 (1976-04-14) * page 1, line 70 - page 2, line 3; figures 1-4 *	1-11
A	US 4524656 A (DEL FABRO MARCELLO [IT] ET AL) 25 June 1985 (1985-06-25) * column 4, line 62 - column 6, line 46; figures 1-22 *	1-11
A	ES 2233141 A1 (CABALLERO MUNOZ JOSE MARIA [ES]) 01 June 2005 (2005-06-01) * column 2, line 2 - column 4, line 5; figures 1,2 *	1-11

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 28 September 2023	Examiner Ritter, Florian
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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**ANNEX TO SUPPLEMENTARY EUROPEAN
SEARCH REPORT**

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EP 20 87 77 58

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 28-09-2023
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date	
FR 2675065	A1	16-10-1992	BE	1006835 A3	03-01-1995
			FR	2675065 A1	16-10-1992
			IT	1254859 B	11-10-1995
DE 202005011269	U1	29-09-2005	NONE		
ES 2241392	A1	16-10-2005	NONE		
DE 2718744	A1	02-11-1978	NONE		
GB 1560351	A	06-02-1980	AT	354935 B	11-02-1979
			BE	850229 A	02-05-1977
			CH	612859 A5	31-08-1979
			DE	2600663 A1	21-07-1977
			ES	454890 A1	16-01-1978
			FR	2337601 A1	05-08-1977
			GB	1560351 A	06-02-1980
			IT	1077553 B	04-05-1985
			NL	7700086 A	12-07-1977
			SE	416182 B	08-12-1980
GB 1432038	A	14-04-1976	AT	334286 B	10-01-1976
			CH	557285 A	31-12-1974
			DE	2352469 A1	09-05-1974
			FR	2205386 A1	31-05-1974
			GB	1432038 A	14-04-1976
			IT	1000913 B	10-04-1976
US 4524656	A	25-06-1985	DE	3334507 A1	05-04-1984
			FR	2533477 A1	30-03-1984
			GB	2130952 A	13-06-1984
			IT	1193054 B	02-06-1988
			JP	S6037233 A	26-02-1985
			US	4524656 A	25-06-1985
ES 2233141	A1	01-06-2005	NONE		