



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 90 04 34

Classification of the application (IPC):

F23L 7/00, B22D 41/015, F23N 5/00, F23D 14/22, F23D 14/32, F23C 6/04, F23M 5/02, F23N 1/02, F23N 5/02

Technical fields searched (IPC):

F23C, F23D, F23L, F23M, F23N

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	EP 2543929 A1 (TAIYO NIPPON SANZO CORP [JP]) 09 January 2013 (2013-01-09)	1-4, 7, 8, 10, 11
Y	* page 1, paragraph 2 * * page 2, paragraph 8 - page 3, paragraph 21 * * page 4, paragraph 25 - page 6, paragraph 49 * * claims 1-13 * * figures 1,4 *	5, 6, 9
X	US 5871343 A (BAUKAL JR CHARLES EDWARD [US] ET AL) 16 February 1999 (1999-02-16) * column 3, line 58 - column 4, line 6 * * claim 7 * * figure 1 *	1, 4
Y	US 4718643 A (GITMAN GRIGORY M [US]) 12 January 1988 (1988-01-12) * column 4, line 10 - column 5, line 25 * * figures 1,2 *	5
Y	DE 102004037620 A1 (AIR LIQUIDE DEUTSCHLAND GMBH [DE]) 23 February 2006 (2006-02-23) * page 7, paragraph 62 - page 8, paragraph 66 * * figure 5 *	6, 9

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 Munich	Date of completion of the search 27 November 2020	Examiner Gavriliu, Costin
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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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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 27-11-2020
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 2543929	A1	09-01-2013	CN 102834667 A	19-12-2012
			EP 2543929 A1	09-01-2013
			JP 5451455 B2	26-03-2014
			JP 2011179751 A	15-09-2011
			KR 20130025378 A	11-03-2013
			MY 156615 A	15-03-2016
			TW 201144701 A	16-12-2011
			US 2012328994 A1	27-12-2012
			WO 2011108351 A1	09-09-2011
			US 5871343	A
DE 69900925 T2	31-10-2002			
EP 0959299 A2	24-11-1999			
ES 2173686 T3	16-10-2002			
US 5871343 A	16-02-1999			
US 4718643	A	12-01-1988	NONE	
DE 102004037620	A1	23-02-2006	NONE	