

**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 15 81 5823

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 1 588 057 A (RUCKERT HARRY E) 8 June 1926 (1926-06-08) * page 1, line 59 - line 66; figures 1,2 *	1-20	INV. B21D53/60 B21D28/14 B21D28/16
A	US 1 962 279 A (LOTT HOWARD R) 12 June 1934 (1934-06-12) * page 3, line 24 - line 46; figures *	1,9	
Y	US 4 839 952 A (YOKOYAMA MICHIIHIRO [JP]) 20 June 1989 (1989-06-20) * column 2, line 44 - line 48; figure 1 *	1-20	
Y	DE 10 2005 007215 A1 (FEINTOOL INTERNAT MAN AG [CH]) 24 August 2006 (2006-08-24) * paragraph [0033]; figure 1 *	1-20	
Y	JP S59 166327 A (MATSUSHITA ELECTRIC IND CO LTD) 19 September 1984 (1984-09-19) * abstract; figure 5 *	1-20	
			TECHNICAL FIELDS SEARCHED (IPC)
			B21D
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 16 January 2018	Examiner Pieracci, Andrea
CATEGORY OF CITED DOCUMENTS		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	
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			

1

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

EP 15 81 5823

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.

16-01-2018

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 1588057	A	08-06-1926	NONE	

US 1962279	A	12-06-1934	NONE	

US 4839952	A	20-06-1989	JP H0749134 B2	31-05-1995
			JP S6313640 A	20-01-1988
			US 4839952 A	20-06-1989

DE 102005007215	A1	24-08-2006	NONE	

JP S59166327	A	19-09-1984	NONE	
