



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 18 81 82 90

Classification of the application (IPC):

E02D 5/34, E02D 5/38, E02D 5/66, E02D 5/72, E02D 7/28, E02D 3/054,
E02D 3/08, E02D 3/12, E02D 15/04

Technical fields searched (IPC):

E02D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2911795 A (COBI WALTER H) 10 November 1959 (1959-11-10) * the whole document *	1-5
X	US 2036355 A (ORR CHESTER A ET AL) 07 April 1936 (1936-04-07)	1-4
Y	* column 4, line 21 - column 6, line 17; claims 1-18; figures 1-7,9-15 *	5
Y	US 2006147274 A1 (DING JINLIANG [CN]) 06 July 2006 (2006-07-06)	5
A	* abstract; figures 1-6 *	3
Y	US 1794892 A (GOLDSBOROUGH JOHN B) 03 March 1931 (1931-03-03)	5
A	* figures 1-8 *	3
X	US 3496729 A (PLEUGER FRIEDRICH WILHELM) 24 February 1970 (1970-02-24)	1, 2
	* column 2, lines 16-67; figures 1-3; compound 2 *	
A	US 4808038 A (ROBERTS DAVID L [NL] ET AL) 28 February 1989 (1989-02-28)	1
	* perforations 12; column 2, lines 35-45; figures 1,2 *	

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 11 February 2021	Examiner Koulo, Anicet
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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 11-02-2021
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2911795	A	10-11-1959	NONE	
US 2036355	A	07-04-1936	NONE	
US 2006147274	A1	06-07-2006	CN US	1603522 A 2006147274 A1 06-04-2005 06-07-2006
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