



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 17 75 29 82

Classification of the application (IPC):  
*F15B 1/14, F15B 1/10*

Technical fields searched (IPC):  
F15B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 5117873 A (MIYAKAWA YOSHITAKA [JP] ET AL) 02 June 1992 (1992-06-02) * figures 1-16 *	1, 3, 5
X	US 4777982 A (BOROWITZ JUERGEN [DE] ET AL) 18 October 1988 (1988-10-18) * figure 1 *	1-4

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 15 July 2019	Examiner Bindreiff, Romain
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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 15-07-2019  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5117873	A	02-06-1992	NONE	
US 4777982	A	18-10-1988	DE 3628608 A1	03-03-1988
			FR 2603075 A1	26-02-1988
			US 4777982 A	18-10-1988