



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 90 89 89

Classification of the application (IPC):
B21B 37/32, B22D 11/06, B22D 11/16

Technical fields searched (IPC):
B22D

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	US 5560421 A (TANAKA KISABURO [JP] ET AL) 01 October 1996 (1996-10-01) * figures 1, 3, 5, 7 * * column 1, line 20 - line 30 * * column 2, line 15 - line 20 * * column 4, line 60 - line 67 * * column 5, line 25 - line 30 * * column 6, line 1 - line 5 * * column 6, line 55 - line 65 *	1-15
Y	US 5996680 A (FUKASE HISAHIKO [AU] ET AL) 07 December 1999 (1999-12-07) * figure 2 * * column 4, line 15 - line 20 *	1-15
Y	US 2004256077 A1 (MARTI HEINRICH [CH] ET AL) 23 December 2004 (2004-12-23) * figures 1, 7, 9 * * paragraph [0001] * * paragraph [0014] - paragraph [0015] * * paragraph [0037] *	1-15
A	US 2010032126 A1 (SCHLICHTING MARK [US] ET AL) 11 February 2010 (2010-02-11) * figures 1-7 * * paragraph [0002] - paragraph [0015] * * paragraph [0067] - paragraph [0074] *	1-15

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 November 2019	Examiner Jung, Régis
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CATEGORY OF CITED DOCUMENTS

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|---|--|
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| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
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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 28-11-2019
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