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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 86 90 48

Classification of the application (IPC):
C23C 14/56, C23C 14/34, C23C 14/50, H01J 37/32, H01J 37/34

Technical fields searched (IPC):
H01J, C23C

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	US 2008268281 A1 (BAI QUAN [US] ET AL) 30 October 2008 (2008-10-30) * abstract; claims 1-8,20; figures 1-3 * * paragraphs [0001], [0002], [0037] - [0045] *	1-7, 9-15 8
X	US 2012199469 A1 (RASHEED MUHAMMAD M [US] ET AL) 09 August 2012 (2012-08-09) * abstract; figures 1-3 * * paragraphs [0002], [0005], [0017], [0018], [0023], [0027], [0032] - [0036], [0044], [0045], [0052] - [0056] *	1-15
X A	US 2013277203 A1 (RASHEED MUHAMMAD [US] ET AL) 24 October 2013 (2013-10-24) * abstract; figures 1,2 * * paragraphs [0002], [0014] - [0021], [0029] - [0039], [0044] *	1, 2, 4, 6, 11-13, 15 7, 9, 10
X A	US 2011278165 A1 (RASHEED MUHAMMAD [US] ET AL) 17 November 2011 (2011-11-17) * abstract; figures 1,2 * * paragraphs [0002], [0013] - [0017], [0030], [0033], [0034] *	1, 2, 4, 6, 11-13, 15 7, 9, 10
X A	WO 2011019566 A2 (APPLIED MATERIALS INC [US]; HAWRYLCHAK LARA [US] ET AL.) 17 February 2011 (2011-02-17) * abstract; figure 1 * * paragraphs [0001], [0002], [0026] - [0028], [0033], [0037] - [0041], [0044] - [0046] *	1, 4, 6, 11, 12, 15 2, 7, 9, 10, 13

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 03 July 2019	Examiner Remy, Jérôme
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CATEGORY OF CITED DOCUMENTS

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 86 90 48

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 03-07-2019.
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