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Nicolas Wyplosz

November 2013



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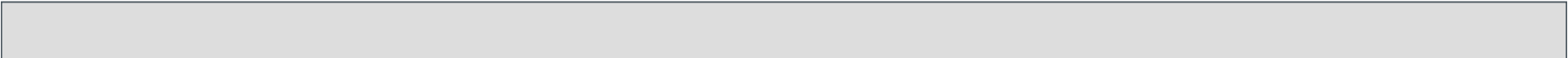
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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(43) International Publication Date
19 January 2006 (19.01.2006)

PCT

(10) International Publication Number
WO 2006/005376 A1

(51) International Patent Classification⁷: **H01J 49/16**,
B01L 3/00

(21) International Application Number:
PCT/EP2004/051505

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **AGILENT TECHNOLOGIES, INC.** [US/US]; 395 Page
Mill Road, Palo Alto, California 94306 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DEHMER, Bernhard**
[DE/DE]; Federbachstrasse 16/1, 76437 Waldbrunn (DE).



Europäisches Patentamt

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(11) Veröffentlichungsnummer:

(11) Publication number:

(11) Numéro de publication:

EP 1 789 988 A0

(54) Title: **LIQUID TRANSPORTATION AND CRYSTALLIZATION GROWTH**

Internationally agreed numbers for the Identification



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PCT application number PCT/EP2004/051505 = **WO2004EP51505**

PCT publication number WO 2006/505376 = WO2006505376

EPO application number EP04766233 = **EP20040766233**

EPO publication number **EP1789988**

Applicant **Agilent** Technologies, Inc.

Inventor **Bernhard DEHMER**

Title **Liquid transportation and crystallization growth**



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Status	No opposition filed within time limit <i>Database last updated on 15.10.2013</i>		
Most recent event	04.10.2013	Lapse of the patent in a contracting state	published on 06.11.2013 [2013/45]
Applicant(s)	For all designated states Agilent Technologies, Inc. - a Delaware Corporation - 5301 Stevens Creek Boulevard Santa Clara CA 95051 / US [2010/37]		
Inventor(s)	01 / DEHMER, Bernhard Federbachstrasse 16/1 76437 Rastatt / DE [2007/22]		
Representative(s)	Barth, Daniel Mathias Agilent Technologies Deutschland GmbH Patentabteilung Herrenberger Strasse 130 71034 Böblingen / DE [2007/22]		
Application number, filing date	04766233.3	15.07.2004	
	[2007/22]		

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	Priority number	Date	
	EP2004051505	15.07.2004	

Type	Patent family member		
	Publication No.	Date	Type
	DE602004029204D	28.10.2010	D1
	Priority number	Date	
	EP2004051505	15.07.2004	

Type	Patent family member		
	Publication No.	Date	Type
	EP1789988	15.09.2010	B1
	EP1789988	30.05.2007	A1
	Priority number	Date	
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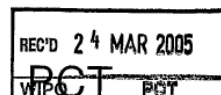


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FOR FURTHER ACTION
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International application No.
PCT/EP2004/051505

International filing date (day/month/year)
15.07.2004

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC
H01J49/16, B01L3/00

Applicant
AGILENT TECHNOLOGIES, INC.

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

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Reasoned statement for novelty and inventive step

NOVELTY

- 2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-8, 10, 11, 13-16, 21-22, 27, 35, 36, 43 is not new in the sense of Article 33(2) PCT.

Document D1, which is considered to represent the most relevant state of the art, discloses all technical features of these claims. Particular relevant parts of D1 are cited in the ISR (par 104-108, 157, 166-168, 192, 193, 242-247, 252-254, 262, fig. 3, 10, 11, 17, 25-28, 31).

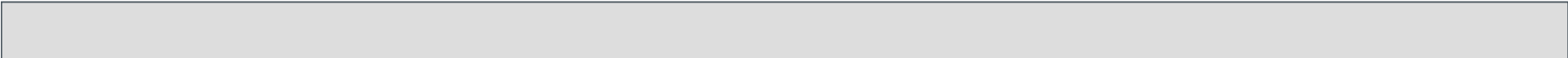
In particular D1 describes (fig 17) a device comprising a hollow space or reservoir in a body, the hollow space or reservoir having at least a first orifice or aperture and being adapted for generating a directed capillary effect towards the at least first orifice or aperture. D1 describes also a method for liquid transportation using this device.

The subject-matter of these claims is therefore not new over the disclosures of D1. Claims 1-8, 10, 11, 13-16, 21-22, 27, 35, 36, 43 do not fulfill the requirements of Article 33(2) PCT.

INVENTIVE STEP

- 3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 9, 12, 17-20, 23-26, 28-34, 37-42, 44-56 does not involve an inventive step in the sense of Article 33(3) PCT.

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Priority number: [i](#) WO1995US15925

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Applicant(s): [i](#) Institut Pasteur

Inventor(s): [i](#) Smith

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Inventor(s):

Bernhard DEHMER

12. COLUMN WITH ADDITIONAL FLUID INTRODUCTION

★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	DEHMER BERNHARD [DE]	AGILENT TECHNOLOGIES INC [US] DEHMER BERNHARD [DE]	B01D15/14 B01D15/1807 B01D15/22 (+3)	(IPC- 7):B01D15/08 G01N30/04 G01N30/60	WO2006092172 (A1) 2006-09-08	2005-03-02

13. LIQUID TRANSPORTATION AND CRYSTALLIZATION GROWTH

★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	DEHMER BERNHARD [DE]	AGILENT TECHNOLOGIES INC [US] DEHMER BERNHARD [DE]	B01L2300/048 B01L2300/161 B01L2400/0406 (+6)	B01F13/00 B01L3/00 C30B7/00 (+4)	WO2006005376 (A1) 2006-01-19 WO2006005376 (A9) 2006-03-16	2004-07-15

14. Dispensing volumes of liquids using a flap septum

★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	DEHMER BERNHARD [DE]	DEHMER BERNHARD, AGILENT TECHNOLOGIES, INC	B01L2300/042 B01L2300/049 B01L2300/166 (+6)	B01L3/00 B01L3/14 F16K15/03 (+2)	US2004234423 (A1) 2004-11-25 US7473399 (B2) 2009-01-06	2003-05-22

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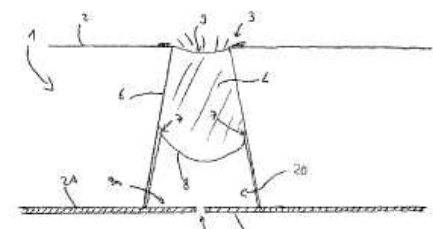
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Inventor(s):	DEHMER BERNHARD [DE] ±
Applicant(s):	AGILENT TECHNOLOGIES INC [US] ±
Classification:	- international: B01F13/00 ; B01L3/00 ; C30B7/00 ; H01J49/16 ; B01L3/06 - cooperative: B01L3/502707 ; B01L3/502746 ; B01L3/50857 ; C30B7/00 ; B01L2300/048 ; B01L2300/161 ; B01L2400/0406 ; B01L3/06 ; B01L3/50273
Application number:	EP 20040766233 20040715
Priority number(s):	WO2004EP51505 20040715
Also published as:	EP1789988 (B1) WO2006005376 (A1) WO2006005376 (A9) → AT481731 (T)

Abstract not available for EP1789988 (A1)
Abstract of corresponding document: WO2006005376 (A1)

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A device for transporting liquids and supporting crystal growth comprises a hollow space (20) in a body (1) with a first side. The hollow space comprises at least a first orifice (9) and is being adapted for generating a directed capillary ascension effect towards the at least first orifice (9).



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Claims: EP1789988 (A1) — 2007-05-30

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LIQUID TRANSPORTATION AND CRYSTALLIZATION GROWTH

Claims not available for EP1789988 (A1)

Claims of corresponding document: WO2006005376 (A1)

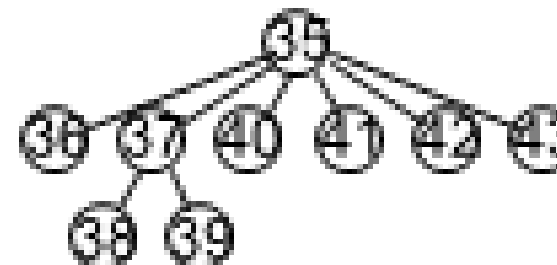
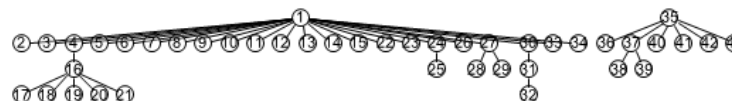
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CLAIMS


1. Device for transporting a liquid, comprising
 - a hollow space (20) in a body (1), the hollow space (20) having at least a first orifice (9) and being adapted for generating a directed capillary effect towards the at least first orifice (9).
35. Device for supporting crystal growth, comprising:
 - a carrier surface (2) having an aperture (9);
 - said aperture (9) being connected to a vessel (20);
 - said vessel (20) being adapted for generating a directed capillary effect towards the aperture (20), thereby supplying the structured carrier surface (2) with a liquid.
44. Method for providing a liquid transportation, comprising the steps of:
 - providing a vessel for a liquid, the vessel comprising an aperture and being adapted for generating a directed capillary effect towards the aperture;
 - filling the liquid into the vessel; - transporting the liquid towards the aperture of the first vessel.





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要約書 WO2006005376

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2. LIQUID TRANSPORTATION AND CRYSTALLIZATION GROWTH

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
DEHMER BERNHARD [DE]	AGILENT TECHNOLOGIES INC [US]	B01L2300/048 B01L2300/161 B01L2400/0406 (+6)	B01F13/00 B01L3/00 C30B7/00 (+2)	EP1789988 (A1) 2007-05-30 EP1789988 (B1) 2010-09-15	2004-07-15

3. LIQUID TRANSPORTATION AND CRYSTALLIZATION GROWTH

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
DEHMER BERNHARD [DE]	AGILENT TECHNOLOGIES INC [US] DEHMER BERNHARD [DE]	B01L2300/048 B01L2300/161 B01L2400/0406 (+6)	B01F13/00 B01L3/00 C30B7/00 (+4)	WO2006005376 (A1) 2006-01-19 WO2006005376 (A9) 2006-03-16	2004-07-15



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#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP19990203729 (EP99203729) - 8 November 1999 National Search Report	
	A		EP0680812 A1 (BOER BEHEER NIJMEGEN BV DE [NL]) - 8 November 1995 Whole Document	1,10,11
	A		NL9400663 A (BOER BEHEER NIJMEGEN BV DE [NL]) - 1 December 1995 Whole Document	1,3
	A		DE3546191 A1 (NETZSCH MASCHINENFABRIK [DE]) - 2 July 1987 Whole Document	1-3,8

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			US1782413 A (WALKER CEMENT PRODUCTS INC) - 25 November 1930	
			US2545366 A (BRICKMASTER INC) - 13 March 1951	
			US4652228 A (PRONEQ IND INC [CA]) - 24 March 1987	
			US5612064 A (BOER BEHEER NIJMEGEN BV DE [NL]) - 18 March 1997	
			EP0680812 A1 (BOER BEHEER NIJMEGEN BV DE [NL]) - 8 November 1995	
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Prior art cited by any **IP5 offices** for the family members of a patent application

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12. COLUMN WITH ADDITIONAL FLUID INTRODUCTION

★	Inventor: DEHMER BERNHARD [DE]	Applicant: AGILENT TECHNOLOGIES INC [US] DEHMER BERNHARD [DE]	CPC: <u>B01D15/14</u> <u>B01D15/1807</u> <u>B01D15/22</u> (+3)	IPC: IPC1- 7):B01D15/08 G01N30/04 G01N30/60	Publication info: WO2006092172 (A1) 2006-09-08	Priority date: 2005-03-02
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13. LIQUID TRANSPORTATION AND CRYSTALLIZATION GROWTH

★	Inventor: DEHMER BERNHARD [DE]	Applicant: AGILENT TECHNOLOGIES INC [US] DEHMER BERNHARD [DE]	CPC: <u>B01L2300/048</u> <u>B01L2300/161</u> <u>B01L2400/0406</u> (+6)	IPC: B01F13/00 B01L3/00 C30B7/00 (+4)	Publication info: WO2006005376 (A1) 2006-01-19 WO2006005376 (A9) 2006-03-16	Priority date: 2004-07-15
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14. Dispensing volumes of liquids using a flap septum

★	Inventor: DEHMER BERNHARD [DE]	Applicant: DEHMER BERNHARD, AGILENT TECHNOLOGIES, INC	CPC: <u>B01L2300/042</u> <u>B01L2300/049</u> <u>B01L2300/166</u> (+6)	IPC: B01L3/00 B01L3/14 F16K15/03 (+2)	Publication info: US2004234423 (A1) 2004-11-25 US7473399 (B2) 2009-01-06	Priority date: 2003-05-22
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« B01L2200/00 B01L2400/00 »

Symbol	Classification and description	
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING	<input type="button" value="S"/> <input type="button" value="i"/>
Separating; Mixing		
<input type="checkbox"/> B01	PHYSICAL OR CHEMICAL PROCESSES OR APPARATUS IN GENERAL (furnaces, kilns, ovens, retorts in general F27)	
<input type="checkbox"/> B01L	CHEMICAL OR PHYSICAL LABORATORY APPARATUS FOR GENERAL USE (apparatus for medical or pharmaceutical purposes A61 ; apparatus for industrial purposes or laboratory apparatus whose construction and performance are comparable to that of similar industrial apparatus, see the relevant classes for industrial apparatus, particularly subclasses of B01 and C12 ; separating or distilling apparatus B01D ; mixing or stirring devices B01F ; atomisers B05B ; {vibrating devices, e.g. shaking tables,} sieves B07B ; corks, bungs B65D ; handling liquids in general B67 ; vacuum pumps F04 ; siphons F04F 10/00 ; taps, stop-cocks F16K ; tubes, tube joints F16L ; apparatus specially adapted for investigating or analysing materials G01 , particularly G01N ; electrical or optical apparatus, see the relevant classes in Sections G and H)	<input type="button" value="S"/> <input type="button" value="D"/> <input type="button" value="i"/> <input type="button" value="⚠"/>
Additional constructional details		
<input type="checkbox"/> B01L 2300/00	Additional constructional details	
<input type="checkbox"/> B01L 2300/04	• Closures and closing means	
<input type="checkbox"/> B01L 2300/041	•• Connecting closures to device or container	
<input type="checkbox"/> B01L 2300/042	••• Caps; Plugs	

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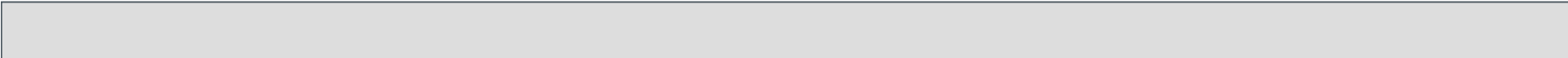
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Symbol	Classification and description
▼ ★★★★★ <input type="checkbox"/> B01L 2400/00	Moving or stopping fluids [2013-01]
▼ ★★★★★ <input type="checkbox"/> C30B 7/00	Single-crystal growth from solutions using solvents which are liquid at normal temperature, e.g. aqueous solutions (...) [2013-01]
▼ ★★★★★ <input type="checkbox"/> B01L 3/00	Containers or dishes for laboratory use, e.g. laboratory glassware (...); Droppers (...) [2013-01]
▼ ★★★★★ <input type="checkbox"/> B01L 2300/00	Additional constructional details [2013-01]
▼ ★★★★★ <input type="checkbox"/> H01J 49/00	Particle spectrometer or separator tubes [2013-01]

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Thank you very much for your time.

Any Questions?

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October 2013

