

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference YP001209WO	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/JP2015/055819	International filing date ( <i>day/month/year</i> ) 27 February 2015 (27.02.2015)	Priority date ( <i>day/month/year</i> ) 12 March 2014 (12.03.2014)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant YUYAMA MFG. CO., LTD.			

<p>1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</p>																								
<p>3. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).</p>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<p align="center">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 13 September 2016 (13.09.2016)</p>
	<p>Authorized officer</p> <p align="center">Yukari Nakamura</p> <p>e-mail: pt07.pct@wipo.int</p>

**PATENT COOPERATION TREATY**

**TRANSLATION**

From the  
INTERNATIONAL SEARCHING AUTHORITY

**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year)	<b>07.04.2015</b>
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Applicant's or agent's file reference <b>YP001209WO</b>
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<b>FOR FURTHER ACTION</b> See paragraph 2 below
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International application No. <b>PCT/JP2015/055819</b>	International filing date (day/month/year) <b>27.02.2015</b>	Priority date (day/month/year) <b>12.03.2014</b>
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International Patent Classification (IPC) or both national classification and IPC <b>A61M5/158 (2006.01) i, A61J3/00 (2006.01) i, A61M5/162 (2006.01) i</b>
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Applicant <b>YUYAMA MFG. CO., LTD.</b>
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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

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2015/055819

**Box No. I**      **Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of:
  - the international application in the language in which it was filed
  - a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.  This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:
  - a. (means)
    - on paper
    - in electronic form
  - b. (time)
    - in the international application as filed
    - together with the international application in electronic form
    - subsequently to this Authority for the purposes of search
4.  In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No. PCT/JP2015/055819
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<b>Box No. V</b>	<b>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>
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1. Statement			
Novelty (N)	Claims	5-15	YES
	Claims	1-4	NO
Inventive step (IS)	Claims	5	YES
	Claims	1-4, 6-15	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	_____	NO

2. Citations and explanations:	
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Document 1: WO 2012/132286 A1 (PANASONIC CORPORATION)  
04 October 2012, paragraphs [0058]-[0071],  
fig. 1-10 & US 2014/0230952 A1 & EP 2692325  
A1

Document 2: JP 9-94286 A (NISSHO CORPORATION) 08 April  
1997, paragraphs [0010]-[0013], fig. 1  
(Family: none)

Claims 1-4

The invention as in claims 1-4 lacks novelty and does not involve an inventive step in the light of document 1 cited in the ISR.

Document 1 describes an injection needle that is provided with a needle tube; and an air duct part (air duct passage 14a) that connects, outside the needle tube, a first position (first air duct hole 14b) at which an opening is formed and that is closer to a rear end than the tip of the needle tube is and a second position (second air duct hole 18) that is closer to the rear end than the first position, at which the opening is formed, wherein an open end of an interspace is located at at

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**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**

least one of the first position and the second position.

Claim 5

The invention as in claim 5 is not described in any of the documents cited in the ISR and thus would not be obvious to a person skilled in the art.

Claim 6

The invention as in claim 6 does not involve an inventive step in the light of document 1 cited in the ISR.

The shape of one end of the air duct part could be selected as appropriate.

Claims 7-8

The invention as in claims 7-8 does not involve an inventive step in the light of documents 1 and 2 cited in the ISR.

Document 2 describes an injection needle in which an air duct part is a groove that is formed on the outer circumferential surface of a needle tube between a first position and a second position.

Applying the technical feature described in document 2 to the injection needle described in document 1 would be easy for a person skilled in the art.

Claims 9-10

The invention as in claims 9-10 does not involve an inventive step in the light of documents 1 and 2 cited in the ISR.

Documents 1 and 2 describe injection needles in which the first position and the second position are located closer to the tip of the needle tube than a needle base is.

Claims 11-15

The invention as in claims 11-15 does not involve an

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

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**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**

inventive step in the light of documents 1 and 2 cited in the ISR.

Document 1 describes a co-injection method comprising: a puncture step for puncturing a rubber plug of a container with an injection needle of an injector up to a location between a first position and a second position; and a step for injecting or discharging liquid into or from the container, in the state in which the rubber plug has been punctured with the injection needle in the puncture step. (paragraphs [0047], [0048], [0057]-[0061] and [0071], fig. 7)

Document 1 describes a co-injection method comprising: a puncture step for puncturing a rubber plug of a container with an injection needle of an injector up to a location closer to the tip end than the first position is; and an injection step for suctioning liquid from the container, in the state in which the rubber plug has been punctured with the injection needle in the puncture step. (paragraphs [0049], [0050] and [0062]-[0065], fig. 2)