

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 104349-WO	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2005/000623	International filing date (<i>day/month/year</i>) 13 January 2005 (13.01.2005)	Priority date (<i>day/month/year</i>) 14 January 2004 (14.01.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant SUMITOMO ELECTRIC INDUSTRIES, 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 5 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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<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																						

	Date of issuance of this report 22 August 2006 (22.08.2006)
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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)

Applicant's or agent's file reference 104349-WO		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/JP2005/000623	International filing date (day/month/year) 13.01.2005	Priority date (day/month/year) 14.01.2004	
International Patent Classification (IPC) or both national classification and IPC			
Applicant SUMITOMO ELECTRIC INDUSTRIES, LTD			

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.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

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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, unless otherwise indicated under this item.
<input type="checkbox"/>	This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a.	type of material
<input type="checkbox"/>	a sequence listing
<input type="checkbox"/>	table(s) related to the sequence listing
b.	format of material
<input type="checkbox"/>	in written format
<input type="checkbox"/>	in computer readable form
c.	time of filing/furnishing
<input type="checkbox"/>	contained in the international application as filed.
<input type="checkbox"/>	filed together with the international application in computer readable form.
<input type="checkbox"/>	furnished subsequently to this Authority for the purposes of search.
3.	<input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto 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.
4.	Additional comments:

**WRITTEN OPINION OF THE
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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		
1. Statement	Novelty (N)	Claims <u>1-11</u>	YES
		Claims <u>12, 13</u>	NO
	Inventive step (IS)	Claims _____	YES
		Claims <u>1-13</u>	NO
	Industrial applicability (IA)	Claims <u>1-13</u>	YES
		Claims _____	NO
2. Citations and explanations:	<p>Document 1: JP, 5-13951, A (Japan Gore-Tex Inc.), 22 January, 1993 (22.01.93) Document 2: JP, 11-87888, A (Mitsubishi Heavy Industries, Inc.), 30 March, 1999 (30.03.99) Document 3: JP, 2001-38625, A (Mitsubishi Materials Corp), 13 February, 2001 (13.02.01) Document 4: JP, 10-86064, A (Asahi Glass Co., Ltd.), 7 April, 1998 (07.04.98)</p> <p>Document 1 cited in the ISR describes a producing method of a sheet-like porous molding and electric circuit components. The sheet-like porous molding is formed with a porous fluoroplastic resin, in which penetrated portions are worked in a pattern-form. On the surface of the penetrated portions, a plating layer is selectively formed. When carrying out the plating above-mentioned, a resist or a photomask is provided so as to perform catalyst treatment, plating treatment and removal of resist or photomask.</p> <p>Document 2 cited in the ISR describes technical matters relating to the method for forming penetrated portions by blasting a film-like board which is made from an organic macromolecular material.</p> <p>Document 3 cited in the ISR describes technical matters relating to the method for sand-blasting over a mask by placing a flexible buffer on an opposite surface of the surface provided with the mask having penetrated portion in the method for forming penetrated portion by blasting.</p> <p>Document 4 cited in the ISR describes technical matters relating to the blasting method in which grains are of water-soluble inorganic salt.</p> <p>Claims 1-5, 10 and 11 The subject matters of claims 1-5, 10 and 11 do not appear to involve an inventive step in view of documents 1, 2 and 3. A person skilled in the art could have easily applied the above technical matters presented in documents 2 and 3 to the method for producing a porous molding presented in document 1. Moreover, it is considered to be a mere conventional means to form penetrated portions by composing recesses on both of one and the other surfaces when providing penetrated portions. Furthermore, it is a designing matter that a person skilled in the art could have adequately done to determine what a mean grain size is. So, it is a technical matter obvious to a person skilled in the art that a resist material, which is used for enabling a plating catalyst to adhere selectively, can be exfoliated before plating.</p> <p>Claims 6-9 The subject matters of claims 6-9 do not appear to involve an inventive step in view of documents 1, 2, 3 and 4. In addition to the matters above-mentioned, a person skilled in the art could have easily applied the above technical matters presented in document 4 to the method for producing a porous molding</p>		

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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

presented in document 1.

Claims 12 and 13

The subject matters of claims 12 and 13 do not appear to be novel or to involve an inventive step, since they are described in document 1.