

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 9150741WO01	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2015/083041	International filing date (<i>day/month/year</i>) 25 November 2015 (25.11.2015)	Priority date (<i>day/month/year</i>) 04 March 2015 (04.03.2015)	
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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	Date of issuance of this report 05 September 2017 (05.09.2017)
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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)	22.12.2015
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Applicant's or agent's file reference 9150741W001

FOR FURTHER ACTION See paragraph 2 below

International application No. PCT/JP2015/083041	International filing date (day/month/year) 25.11.2015	Priority date (day/month/year) 04.03.2015
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International Patent Classification (IPC) or both national classification and IPC H04B10/66 (2013.01) i, H04B10/272 (2013.01) i, H04L12/44 (2006.01) i

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.

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/JP2015/083041

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/JP2015/083041

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>1-5</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-5</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-5</u>	YES
	Claims	_____	NO
2. Citations and explanations:			
<p>Document 1: JP 2008-61093 A (FUJITSU LTD.) 13 March 2008, paragraphs [0023], [0045]-[0048], fig. 1 & US 2008/0056721 A1, paragraphs [0052], [0080]-[0083], fig. 1</p> <p>Document 2: JP 2005-33537 A (HITACHI COMMUNICATION TECHNOLOGY CO., LTD.) 03 February 2005, paragraphs [0020], [0025], fig. 1</p> <p>Claims 1-5:</p> <p>The invention as in claims 1-5 is novel and involves an inventive step in relation to documents 1 and 2 cited in the ISR.</p> <p>Document 1 discloses:</p> <p>a feature in which an OLT (3) is provided with a bit synchronization processing part (381) for a bit rate A1, a bit synchronization processing part (382) for a bit rate A2, and a selector (37) having <u>one input</u> and two outputs (paragraphs [0045]-[0048], fig. 1); and</p> <p>a feature in which the bit rate A1 is 1.25 Gb/s and the bit rate A2 is 10.3125 Gb/s (paragraph [0023]).</p>			

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

Document 2 discloses:

a feature in which B1 Mbit/s bursts and B2 Mbit/s bursts are present in a mixed manner in data received by a station apparatus (1) (paragraph [0025]); and

a feature in which the station apparatus (1) is provided with a switching unit (11) having M inputs and I outputs, between M subscriber line interfaces (10-1, ..., and 10-M) and I intrastation/interstation interfaces (12-1, ..., and 12-I) (paragraph [0020], fig. 1).

However, none of the documents cited in the ISR disclose or suggest

the feature of having a path switching device which includes first and second input terminals and first and second output terminals, and which defines the signal path between the first and/or second input terminals and the first and/or second output terminals so as to route the inputted data signal to the first and/or the second reception units.

In addition, the feature of being provided with the path switching device would not be obvious to a person skilled in the art.