

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

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| Applicant's or agent's file reference FPSZ-636PCT | FOR FURTHER ACTION | | See item 4 below |
| International application No. PCT/JP2016/084311 | International filing date (<i>day/month/year</i>) 18 November 2016 (18.11.2016) | Priority date (<i>day/month/year</i>) 02 December 2015 (02.12.2015) | |
| International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237 | | | |
| Applicant AUTONETWORKS TECHNOLOGIES, LTD. | | | |

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|---|-------------------------------------|---|---------------------|--------------------------|------------|----------|--------------------------|-------------|--|--------------------------|------------|----------------------------|-------------------------------------|-----------|---|--------------------------|------------|-------------------------|--------------------------|-------------|--|--------------------------|--------------|---|
| <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 |
| <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 05 June 2018 (05.06.2018)</p> |
| | <p>Authorized officer</p> <p align="center">Yukari Nakamura</p> <p>e-mail: pct.team7@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:

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| Date of mailing (day/month/year) | 27.12.2016 |
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| Applicant's or agent's file reference FPSZ-636PCT | FOR FURTHER ACTION See paragraph 2 below |
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|---|---|---|
| International application No. PCT/JP2016/084311 | International filing date (day/month/year) 18.11.2016 | Priority date (day/month/year) 02.12.2015 |
|---|---|---|

International Patent Classification (IPC) or both national classification and IPC
H02G3/04 (2006.01) i, B60R16/02 (2006.01) i, H01B7/00 (2006.01) i

Applicant
AUTONETWORKS TECHNOLOGIES, 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.

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|--|------------------------------------|--------------------|
| 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/JP2016/084311

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 43bis.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:
 - a. forming part of the international application as filed:
 - in the form of an Annex C/ST.25 text file.
 - on paper or in the form of an image file.
 - b. furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. furnished subsequent to the international filing date for the purposes of international search only:
 - in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
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 forming part of 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**

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| International application No. PCT/JP2016/084311 |
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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 |
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|-------------------------------|--------|-------|-----|
| 1. Statement | | | |
| Novelty (N) | Claims | 1-3 | YES |
| | Claims | _____ | NO |
| Inventive step (IS) | Claims | _____ | YES |
| | Claims | 1-3 | NO |
| Industrial applicability (IA) | Claims | 1-3 | YES |
| | Claims | _____ | NO |

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|--------------------------------|--|
| 2. Citations and explanations: | |
|--------------------------------|--|

Document 1: JP 2001-146575 A (KANSAI PAINT CO., LTD.)
29 May 2001, paragraphs [0011]-[0020],
[0033]-[0042], [0052]-[0057] (Family: none)

Document 2: WO 2014/061795 A1 (YAZAKI CORP.) 24 April
2014, paragraphs [0020]-[0029], fig. 1, 2,
4, 5 & US 2015/0222103 A1, paragraphs
[0030]-[0036], fig. 1, 2, 4, 5 & JP 2014-
82909 A & DE 112013005075 T5 & CN 104737399
A

The invention as in claims 1-3 does not involve an
inventive step with respect to document 1 and document 2
cited in the ISR.

Document 1 discloses a coating material composition
for preventing local detachment of a coating film
occurring when pebbles hurled up by a wheel of a car
traveling on a road hits the coating film surface of the
external plate part of the car, wherein a coating film
formed from the chipping-resistant coating material
composition has a relaxation modulus of 0.05-1.00 GPa
within a relaxation time range of 10⁻⁵-10⁵ seconds and has

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2016/084311

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

a film thickness of 10-60 μm , and the coating material composition is applied onto materials such as metal in cars.

Document 2 discloses a wire harness exterior member of a wire harness wired in a car, wherein the exterior member comprises: a conduction path; and a metal pipe for covering and protecting the conduction path, and the metal pipe is formed by using a material having shock resistance and strength so that the metal pipe can continue to protect the conduction path inside thereof from underfloor chipping and running over of curb stones, etc., and a resin coating is provided to the external surface thereof, and also the exterior member is subjected to painting with orange color so that visual recognition is possible.

Hence, a person skilled in the art could easily conceive of using a coating film formed from the coating material composition disclosed in document 1 as a coating for the metal pipe which protects the conduction path in the invention disclosed in document 2.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2016/084295

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

device in the invention described in document 1 on the basis of the commonly-known feature as described in document 3.

•Claim 2

The invention as in claim 2 does not involve an inventive step in light of documents 1-4 cited in the ISR.

The inventions described in documents 1-3 are as described above.

Document 4 describes generating a difference image of an image of a state in which ultraviolet rays are irradiated and an image of a state in which ultraviolet rays are not irradiated in order to eliminate influence of external light during analysis by irradiation of ultraviolet rays.

Consequently, a person skilled in the art could easily generate a difference image of an image of a state in which excitable light is irradiated and an image of a state in which excitable light is not irradiated on a fluorescent substance by the imaging device in order to eliminate influence of external light in the invention described in document 1 on the basis of the invention described in document 4.

•Claims 3, 5

The invention as in claims 3 and 5 does not involve an inventive step in light of documents 1-3.

The inventions described in documents 2 and 3 are as described above.

Document 1 describes a problem of cooling water leaking through a crack into a cavity of the casting mold.

Consequently, a person skilled in the art could easily conceive of setting a detection target as casting mold cooling water in a method for detecting leakage of coolant described in document 2 on the basis of the invention described in