

**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>10.07.2018</b>
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Applicant's or agent's file reference <b>18Y00088W00</b>	<b>FOR FURTHER ACTION</b> See paragraph 2 below
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International application No. <b>PCT/JP2018/014318</b>	International filing date (day/month/year) <b>03.04.2018</b>	Priority date (day/month/year) <b>14.04.2017</b>
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International Patent Classification (IPC) or both national classification and IPC  
**C25D7/02 (2006.01) i, C25D3/56 (2006.01) i, C25D5/10 (2006.01) i, C25D17/16 (2006.01) i**

Applicant  
**YKK CORPORATION**

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/JP2018/014318

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**

International application No. PCT/JP2018/014318
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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	1-26	YES
	Claims	_____	NO
Inventive step (IS)	Claims	1-26	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	1-26	YES
	Claims	_____	NO

2. Citations and explanations:	
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Document 1: JP 2002-42556 A (HITACHI CABLE, LTD.) 08 February 2002 (Family: none)

Document 2: JP 2012-87388 A (FURUKAWA ELECTRIC CO., LTD.) 10 May 2012 (Family: none)

Document 3: WO 2013/141166 A1 (NEOMAX MATERIALS CO., LTD.) 26 September 2013 & KR 10-2013-0133097 A & CN 103703168 A

Document 4: JP 2014-19953 A (YKK CORPORATION) 03 February 2014 & US 2014/0017512 A1 & EP 2684984 A2 & CN 103540979 A

The invention as in claims 1-26 is not disclosed in any of the documents cited in the international search report, and would not be obvious to a person skilled in the art. Documents 1-4 do not disclose a plating material or the like in which alloy crystal particles are distributed in a plating layer in a manner such that a clear interface does not exist. Furthermore, a person skilled in the art could not easily conceive of this material.