

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

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 China Sinda Intellectual Property Ltd.

PCT

WRITTEN OPINION OF THE
 INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference PCT17090CN		Date of mailing (day/month/year) 28 March 2018
FOR FURTHER ACTION		See paragraph 2 below
International application No. PCT/CN2017/097223	International filing date (day/month/year) 11 August 2017	Priority date (day/month/year)
International Patent Classification (IPC) or both national classification and IPC H04L 5/00(2006.01)i		
Applicant Motorola Mobility LLC		

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 and 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/ STATE INTELLECTUAL PROPERTY OFFICE OF THE P.R.CHINA China 6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088	Date of completion of this opinion 22 March 2018	Authorized officer GUO,Jing
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/CN2017/097223

Box No. I Basis of the 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/CN2017/097223

Box No. V **Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	<u>1-48</u>	YES
	Claims	<u>None</u>	NO
Inventive step (IS)	Claims	<u>1-48</u>	YES
	Claims	<u>None</u>	NO
Industrial applicability (IA)	Claims	<u>1-48</u>	YES
	Claims	<u>None</u>	NO

2. Citations and explanations :

[1] D1: WO2015171055 A1

[2] **I. Novelty and inventive step**

[3] D1 discloses (see claim 1 and description, paragraphs [0021]-[0030]) a method of operating a first base station (BS-A) in a Radio Access Network (RAN) including the first base station (BS-A) and a second base station (BS-B), the method comprising: communicating (1523, 1723) a Reference Signal Received Power (RSRP) measurement list (corresponding to the ordered list), a Coordinated Multipoint (CoMP) hypothesis, and a Benefit Metric between the first and second base stations (BS-A and BS-B).

[4] The differences between independent claims 1, 31 and the disclosure of D1 are: 1) reference signal received power corresponding to each beam, 2) in descending order to result in an ordered list of reference signal received powers, 3) an encoded ordered list of reference signal received powers. Therefore claims 1, 31 involve novelty and meet the criteria set out in PCT Article 33(2).

[5] And the differences are uncommon communication ways, therefore claims 1, 31 involve an inventive step and meet the criteria set out in PCT Article 33(3).

[6] Claims 2-15 and 32-39 are respectively dependent on claims 1 and 31 directly or indirectly, so claims 2-15 and 32-39 also meet the criteria set out in PCT Article 33(2) and 33(3).

[7] Claims 16-30 and 40-48 are corresponding to claims 1-15 and 31-39, and according to the comments on claims 1-15 and 31-39, claims 16-30 and 40-48 meet the criteria set out in PCT Article 33(2) and 33(3).

[8] **II. Industrial applicability**

[9] Claims 1-48 are industrially applicable under PCT Article 33(4).