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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/211,399	12/06/2018	Janne PEISA	P51679-US2	8997
27045	7590	02/06/2019		
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024			EXAMINER PATEL, JAY P	
			ART UNIT	PAPER NUMBER
			2466	
			NOTIFICATION DATE	DELIVERY MODE
			02/06/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103 as being unpatentable over Ryoo et al. (US Publication 2017/257780 A1) further in view of Dai et al. (US Publication 2015/0071250 A1).

1. In regards to claims 1, 9 and 17, Ryoo et al. (US Publication 2017/257780 A1) teaches, A method performed by a wireless device for handover (see paragraph 46, also see paragraph 151; transmission beam and reception beam recommendation when handing over a communication channel; see paragraph 159; the DRB2 is handed over

from a macro-cell to a small cell), the method comprising: receiving a first handover message from a source network node associated with a source cell (see paragraph 158; see steps 902-904), the first handover message comprising an access information associated with the target cell (paragraph 102, RRC connection reconfiguration message containing the RACH configuration information regarding the small cell enb; see paragraph 159; the transmission beam reordering request is included in an RRC connection reconfiguration message; see paragraph 168; the recommendation information contained in the RRC connection reconfiguration message), wherein the target cell is different than the source cell (the target cell is mentioned throughout Ryoo as the small cell; the source cell is a macro cell) and comprises one or more beams (see paragraph 71 on page 6 and figure 4A, step 401) and the access information comprises beam related information (see paragraph 159; the transmission beam reordering request is included in an RRC connection reconfiguration message; see paragraph 168; the recommendation information contained in the RRC connection reconfiguration message); identifying at least one beam from among the one or more beams of the target cell based on the identification of the target cell and the access information from the first handover message (see paragraph 160); and accessing the target cell (625) using the identified at least one beam (see paragraph 160; the UE implicitly carries out different RACH transmission using the reordered transmission beams).

2. In further regards to claim 1, Ryoo fails to teach, the first handover message comprising an identification of a target cell.

3. Dai et al. (US Publication 2015/0071250 A1) however teaches a handover message including the identifier of the target base station (see paragraph 77).
4. Therefore, it would have been obvious for one of ordinary skill in the art before the effectively filing date of the present application to incorporate the identification information of the target base station as taught by Dai into the teachings of Ryoo. The motivation to do so would be to efficiently carry out a handover by having a quick and known recognition of the target base station.
5. In regards to claims 2 and 10, Ryoo teaches wherein the target cell is associated with a second network node, the second network node being different than the source network node (see figure 1 for example with macro enb 101 and other small enbs 111, 112, etc.).
6. In regards to claims 3 and 11, Ryoo teaches, wherein the access information comprises Random Access Channel (RACH) information (see paragraph 102).
7. In regards to claims 4 and 12, Ryoo teaches, wherein the target cell has at least two beams and the access information comprises an indication of allowed beams associated with the target cell, the allowed beams comprising fewer than all of the beams of the target cell (see paragraphs 115 and 118).
8. In regards to claims 5 and 13, Ryoo teaches, wherein the access information includes a random access preamble mapped to each of the allowed beams of the target cell (see paragraphs 71-72).
9. In regards to claims 6 and 14, Ryoo implies, wherein the access information includes common random access configuration information and dedicated random access resources for the allowed beams (see figures 2B and 2C; the figure 2B shows

the directional (dedicated) RACH response and the figure 2C shows the omni-directional response).

10. In regards to claims 7 and 15, Ryoo teaches, wherein accessing the target cell using the identified at least one beam comprises accessing the target cell using a contention based random access procedure (see paragraph 133).

11. In regards to claims 8 and 16, Ryoo teaches, wherein accessing the target cell using the identified at least one beam comprises accessing the target cell without first reading system information associated with the target cell (see figure 5, the macro eNB determines to add the small cell without reading the information from the small cell directly; instead it is done based on the report from the UE).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAY P PATEL whose telephone number is (571)272-3086. The examiner can normally be reached on M-F 9:30-6.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Faruk Hamza can be reached on 571-272-7969. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/JAY P PATEL/

Primary Examiner, Art Unit 2466