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(54) Title: METHODS FOR BEAM CONTROL SIGNALLING, RELATED NETWORK NODES AND WIRELESS DEVICES

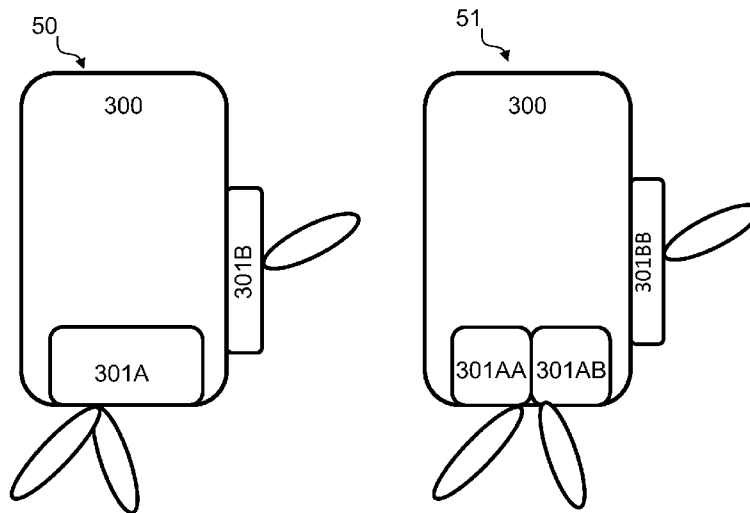


Fig. 1B

(57) Abstract: The present disclosure provides a method, performed at a network node, for beam control signalling. The network node is configured to communicate with a wireless device comprising one or more physical antenna panels. Each physical antenna panel is configured to communicate with the network node using one or more panels. The method comprises receiving, from the wireless device, control signalling indicative of an association of the one or more panels with one or more corresponding physical antenna panels. The method comprises selecting, based on the association, one or more beams to be used by the wireless device in communication with the network node.



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## INTERNATIONAL SEARCH REPORT

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| A. CLASSIFICATION OF SUBJECT MATTER                                                                                                                                     |                                                                                                                                                                                                                                                  |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| IPC: see extra sheet                                                                                                                                                    |                                                                                                                                                                                                                                                  |                       |
| According to International Patent Classification (IPC) or to both national classification and IPC                                                                       |                                                                                                                                                                                                                                                  |                       |
| B. FIELDS SEARCHED                                                                                                                                                      |                                                                                                                                                                                                                                                  |                       |
| Minimum documentation searched (classification system followed by classification symbols)                                                                               |                                                                                                                                                                                                                                                  |                       |
| IPC: H04B                                                                                                                                                               |                                                                                                                                                                                                                                                  |                       |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                                           |                                                                                                                                                                                                                                                  |                       |
| SE, DK, FI, NO classes as above                                                                                                                                         |                                                                                                                                                                                                                                                  |                       |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                                            |                                                                                                                                                                                                                                                  |                       |
| EPO-Internal, PAJ, WPI data, COMPENDEX, INSPEC, IBM-TDB                                                                                                                 |                                                                                                                                                                                                                                                  |                       |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                  |                                                                                                                                                                                                                                                  |                       |
| Category*                                                                                                                                                               | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                               | Relevant to claim No. |
| X                                                                                                                                                                       | WO 2018183991 A1 (INTEL IP CORP), 4 October 2018 (2018-10-04); paragraphs [0025], [0100]-[0116]                                                                                                                                                  | 1-3, 7, 13, 14        |
| A                                                                                                                                                                       | --                                                                                                                                                                                                                                               | 4-6, 8-12             |
| A                                                                                                                                                                       | US 20190028167 A1 (CHANG WENTING ET AL), 24 January 2019 (2019-01-24); paragraphs [0020]-[0025], [0040]-[0045], [0105]-[0110]                                                                                                                    | 1-14                  |
| A                                                                                                                                                                       | WO 2018009462 A1 (INTEL IP CORP), 11 January 2018 (2018-01-11); paragraphs [0055]-[0059], [0232]-[0237]                                                                                                                                          | 1-14                  |
|                                                                                                                                                                         | --                                                                                                                                                                                                                                               |                       |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.             |                                                                                                                                                                                                                                                  |                       |
| * Special categories of cited documents:                                                                                                                                |                                                                                                                                                                                                                                                  |                       |
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| "P" document published prior to the international filing date but later than the priority date claimed                                                                  | "&" document member of the same patent family                                                                                                                                                                                                    |                       |
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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |                                                                                                                                             |                       |
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| Category*                                             | Citation of document, with indication, where appropriate, of the relevant passages                                                          | Relevant to claim No. |
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| A                                                     | 3GPP, R1-1902503, 3 Intel Corporation, 'On Beam Management Enhancement', 2019-02-16; whole document<br>--                                   | 1-14                  |
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**Continuation of:** second sheet

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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