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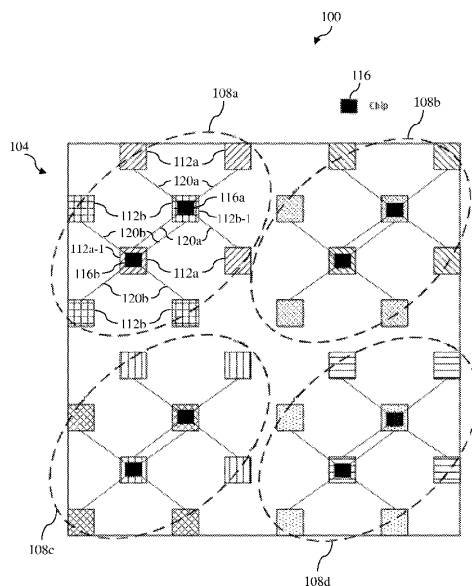


FIG. 1

(57) Abstract: There is provided a phased array antenna, including: a receiver antenna array including one or more groups of receiver radiating elements, each group of receiver radiating elements including a first receiver subarray of receiver radiating elements and a second receiver subarray of receiver radiating elements; a plurality of receiver core chips, including, for each of the one or more groups of receiver radiating elements, a first receiver core chip associated with the first receiver subarray and a second receiver core chip associated with the second receiver subarray; and a plurality of receiver feeding networks, including, for each of the one or more groups of receiver radiating elements, a first receiver feeding network including a plurality of first feed lines and a second receiver feeding network including a plurality of second feed lines. In particular, for each of the one or more groups of receiver radiating elements, a first receiver radiating element of the first receiver subarray and the second receiver core chip associated with the second receiver subarray are arranged at least substantially at or along a center of the second receiver subarray and a first receiver radiating element of the second receiver subarray and the first receiver core chip associated with the first receiver subarray are arranged at least substantially at or along a center of the first receiver subarray such that the plurality of first feed lines and the plurality of second feed lines have at least substantially equal length.

[Continued on next page]

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