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(54) Title: A PHASED ARRAY ANTENNA, A MODULAR PHASED ARRAY ANTENNA SYSTEM, AND A METHOD OF MAKING A PHASED ARRAY ANTENNA

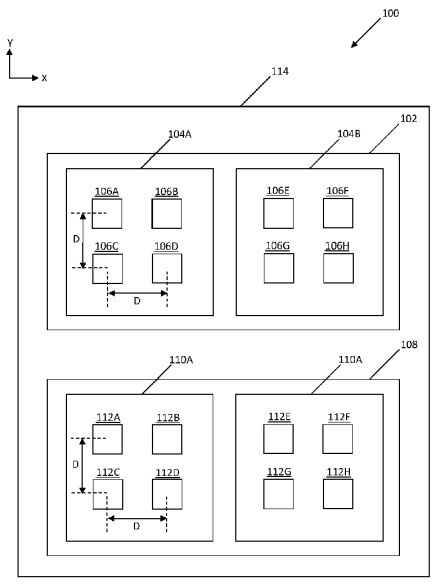


FIG. 1

(57) Abstract: There is provided a phased array antenna, a modular phased array antenna system, and a method of making a phased array antenna, the phased array antenna comprising, an Rx antenna array comprising one or more Rx subarrays of Rx antenna elements configured to receive via a first frequency range; and a Tx antenna array comprising one or more Tx subarrays of Tx antenna elements configured to transmit via a second frequency range; wherein the Rx antenna array and Tx antenna array are disposed on a same aperture; wherein the Rx antenna element is separate from the Tx antenna element; and wherein any two immediately adjacent Rx antenna elements and any two immediately adjacent Tx antenna elements are separated by a distance D along a first direction and a second direction perpendicular to the first direction.

WO 2025/193175 A1

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