

Title (en)
MIMO RADAR SENSOR FOR MOTOR VEHICLES

Title (de)
MIMO-RADARSENSOR FÜR KRAFTFAHRZEUGE

Title (fr)
DÉTECTEUR RADAR À ENTRÉES ET SORTIES MULTIPLES (MIMO) POUR VÉHICULES AUTOMOBILES

Publication
EP 3794373 A1 20210324 (DE)

Application
EP 19709900 A 20190307

Priority
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Abstract (en)
[origin: CA3099856A1] The invention relates to a MIMO radar sensor for motor vehicles, comprising an antenna assembly (10) on a rectangular circuit board (16), the edges of which define a Y-direction and a Z-direction, wherein the antenna assembly has at least two arrays (TA1, TA2) of transmitting antennas (TX) and at least two arrays (RA1, RA2) of receiving antennas (RX), said transmitting antennas (TX) being offset in relation to one another in the Z-direction within every array, while the two arrays (TA1, TA2) of the transmitting antennas are offset in relation to one another in the Y-direction, and said receiving antennas (RX) being offset in relation to one another in the Y-direction within every array, while the two arrays (RA1, RA2) of the receiving antennas are offset in relation to one another in the Z-direction, characterised in that the two arrays (TA1, TA2) of the transmitting antennas are arranged adjacent to two opposing edges of the circuit board (16), the two arrays (RA1, RA2) of the receiving antennas are arranged adjacent to the two remaining edges of the circuit board (16), and at least one high-frequency component (18) is arranged on the circuit board in a central region of the circuit board (16) between the arrays of the transmitting and receiving antennas.

IPC 8 full level
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