

Title (en)
Antenna system

Title (de)
Antennensystem

Title (fr)
Système d'antenne

Publication
EP 2360785 A1 20110824 (EN)

Application
EP 10275017 A 20100215

Priority
EP 10275017 A 20100215

Abstract (en)
An antenna system, comprising: a phased array antenna (4); and a dielectric lens arrangement (6), for example a single solid dielectric lens (6) comprising a substantially spherical convex surface (12) and a concave surface (14); wherein the dielectric lens arrangement (6) is arranged to magnify the effective aperture of the phased array antenna (4). The concave surface (14) is positioned within the near field of the phased array antenna (4). The phased array antenna (4) is operated at a frequency greater than or equal to 50GHz. The antenna system retains some ability to electronically scan the beam. The antenna system may be for transmission and/or reception. The antenna system may be used for example for communication between two vehicles.

IPC 8 full level
H01Q 3/30 (2006.01); **H01Q 15/08** (2006.01); **H01Q 19/06** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP)
H01Q 3/2658 (2013.01); **H01Q 15/08** (2013.01); **H01Q 19/062** (2013.01); **H01Q 21/061** (2013.01); **H01Q 25/008** (2013.01)

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Designated extension state (EPC)
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