Title (en)

PHASE-CONTROLLED ANTENNA ELEMENT

Title (de)

PHASENGESTEUERTES ANTENNENELEMENT

Title (fr)

ÉLÉMENT ANTENNE À COMMANDE DE PHASE

Publication

EP 3482454 A1 20190515 (DE)

Application

EP 17735448 A 20170627

Priority

- DE 102016112582 A 20160708
- EP 2017065881 W 20170627

Abstract (en)

[origin: WO2018007209A1] The phase-controlled antenna element consists of a waveguide emitter (1) with signal output and signal injection (7), into which a rotatable phase control element (2) is introduced, and a drive unit (6). The phase control element comprises in this case a holder (3), at least two polarisers (4) which are fastened to the holder (3), and a connecting element (5). Each of the at least two polarisers (4) can convert a circularly polarized signal into a linearly polarized signal. The phase control element (2) is rotatably fitted in the waveguide emitter (1) and is connected to the drive unit (6) with the aid of the connecting element (5) in such a manner that the drive unit (6) can rotate the phase control element (2) about the axis (8) of the waveguide emitter (1), as illustrated in the form of a sketch in fig. 1.

IPC 8 full level

H01Q 3/32 (2006.01); **H01P 1/18** (2006.01); **H01Q 13/02** (2006.01); **H01Q 15/24** (2006.01)

CPC (source: EP IL US)

H01P 1/182 (2013.01 - EP IL US); **H01Q 1/425** (2013.01 - IL US); **H01Q 3/32** (2013.01 - EP IL US); **H01Q 13/0241** (2013.01 - EP IL US); **H01Q 13/0258** (2013.01 - IL US); **H01Q 13/28** (2013.01 - IL US); **H01Q 15/244** (2013.01 - EP IL US); **H01Q 21/0075** (2013.01 - IL US); **H01Q 21/064** (2013.01 - IL US)

Citation (search report)

See references of WO 2018007209A1

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