

Title (en)
QUASI-OPTICAL LENS BEAM FORMER AND PLANAR ANTENNA COMPRISING SUCH A BEAM FORMER

Title (de)
QUASIOPTISCHER STRAHLFORMER MIT LINSE, UND FLACHANTENNE, DIE EINEN SOLCHEN STRAHLFORMER UMFASST

Title (fr)
FORMATEUR DE FAISCEAUX QUASI-OPTIQUE A LENTILLE ET ANTENNE PLANE COMPORTANT UN TEL FORMATEUR DE FAISCEAUX

Publication
EP 3113286 B1 20180314 (FR)

Application
EP 16176732 A 20160628

Priority
FR 1501415 A 20150703

Abstract (en)
[origin: CA2934754A1] The beamformer comprises a transmission line fed by at least one input feed source, the transmission line comprising two stacked metal plates extending, along two directions, longitudinal X and transverse Y. The transmission line furthermore comprises at least one protuberance extending in the directions X, Y, and in a direction Z orthogonal to the plane XY, the protuberance comprising a metal insert extending in the directions X and Y and extending height-wise in the direction Z, the insert comprising a base fastened to one of the two metal plates and a free end and having a contour of variable length between the two lateral edges of the transmission line. In the protuberance, the transmission line is adjoining the insert and forms, in the direction Z, a circumvolution around the insert.

IPC 8 full level
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H01Q 15/10 (2013.01 - US); **H01Q 19/08** (2013.01 - US); **H01Q 21/0031** (2013.01 - EP US); **H01Q 25/008** (2013.01 - EP US)

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CN109638408A; US10553957B2

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