

Title (en)
DOUBLE-BEAM ANTENNA WITH TWO SOURCES

Title (de)
DOPPELSTRAHLANTENNE MIT ZWEI QUELLEN

Title (fr)
ANTENNE BI-FAISCEAUX A DEUX SOURCES

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Application
EP 01984045 A 20010622

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Abstract (en)
[origin: WO0199229A1] The invention concerns an antenna comprising a microwave lens (1), having a first source (S1) located proximate to the lens focus and the second source (S2) located at a distance d from the first source, proximate to the plane perpendicular to the focal axis (3). The antenna comprises a polarisation filter prism (41) located on the side of the lens opposite to the sources, the two sources having orthogonal polarisations and the first source (S1) having a polarisation substantially perpendicular to the prism plates. The output profile (71) of the prism can be adapted to compensate aberrations caused by defocusing of the sources. In particular, said profile can be substantially symmetrical relative to a point P passing through the focal axis of the lens, with a convex part and a concave part. The invention is applicable in particular to millimetric radar antennae, such as for example motor vehicle radar

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