

Title (en)

ANTENNA INCORPORATING DELAY LENSES INSIDE A DIVIDER BASED DISTRIBUTOR WITH A PARALLEL PLATE WAVEGUIDE

Title (de)

ANTENNE MIT INTEGRIERTEN VERZÖGERUNGSLINSEN IM INNERN EINES VERTEILERS AUF DER BASIS VON WELLENLEITERTEILERN MIT PARALLELEN PLATTEN

Title (fr)

ANTENNE INTÉGRANT DES LENTILLES À RETARD À L'INTÉRIEUR D'UN RÉPARTITEUR À BASE DE DIVISEURS À GUIDE D'ONDES À PLAQUES PARALLÈLES

Publication

**EP 3435480 B1 20200219 (FR)**

Application

**EP 18185469 A 20180725**

Priority

FR 1700799 A 20170727

Abstract (en)

[origin: CA3012540A1] Quasi-optical beamformer comprising a power distributor (1) composed of a succession of parallel-plate dividers (3) extending in a YZ-plane from a first stage (e1) to a last stage (e N), each parallel-plate divider (3) comprising, in each of the stages of the corporate structure located under a higher stage, first and second parallel-plate waveguide branches (B1, B2) leading to respective parallel-plate dividers (3) of the following stage of the corporate structure, the beamformer furthermore including a plurality of lenses (6, 7) extending longitudinally along the X-axis in at least one stage of the power distributor (1), so as to apply a delay that is continuously variable along the X-axis, said lenses being placed in each of the branches (B1, B2) of the dividers (3) of at least one stage in the power distributor (1).

IPC 8 full level

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CPC (source: EP US)

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