

Title (en)

Phased array antenna with couplers in spatial filter arrangement.

Title (de)

Phasengesteuerte Antenne mit Kopplern, die zu einem örtlich koppelndem Filter angeordnet sind.

Title (fr)

Réseau d'antennes à commande par déphaseurs à coupleurs dans un arrangement à filtre spatial.

Publication

**EP 0325012 A1 19890726 (EN)**

Application

**EP 88300427 A 19880120**

Priority

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Abstract (en)

A lossless spatial filter (17) having N input ports and N output ports and printed on a single substrate. The filter is used in combination with the antenna of a microwave Landing system which radiates wave energy signals into a selected angular region of space and into a desired radiation pattern. The aperture of the system includes a plurality of N antenna elements. The antenna elements (1-8) are arranged along a predetermined path and each element is connected to only one output port (64-71) of the spatial filter. A beam steering unit (54) controls the direction of radiation. A signal generator (44) supplies a power divider (43) having N output signal ports each connected to a phase shifter (26-33) controlled by the beam steering unit.

IPC 1-7

**H01Q 3/40**

IPC 8 full level

**H01Q 3/40** (2006.01)

CPC (source: EP)

**H01Q 3/40** (2013.01)

Citation (search report)

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