

Title (en)

A FLAT MICROWAVE EMITTING OR RECEIVING ANTENNA ARRAY, AND MICROWAVE SIGNAL EMITTING OR RECEIVING SYSTEM COMPRISING A SUCH FLAT ANTENNA

Publication

EP 0134611 B1 19891108 (FR)

Application

EP 84201178 A 19840815

Priority

FR 8313478 A 19830819

Abstract (en)

[origin: US4644362A] Antenna output for a planar antenna comprising an array of receiving elements provided by two networks (20, 30) of high frequency transmission lines and three sheets (10, 40, 50). The first sheet (10) comprises first cavities (11), the first and second transmission line networks are planar, located respectively on either side of this first sheet and, for signal reception, coupled to each of the cavities by a corresponding number of distinct ends forming exciting probes along two perpendicular axes. The third and second sheets (40, 50) are located on the other side of both of these networks and comprise second and third cavities (41, 51) which are in line with the first cavities. The third cavities are short-circuited in a plane parallel to the surfaces of the sheets, and these sheets are made of a metal or of a dielectric material having metal-plated walls of the cavities. The antenna output is formed by ends (122, 132) of the two transmission line networks which form exciting probes coupled to a waveguide (60) which is located in and opens toward the rear of the antenna.

IPC 1-7

H01P 1/161; **H01P 5/08**; **H01Q 21/24**

IPC 8 full level

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CPC (source: EP US)

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EP 0108463 A1 19840516 - ELECTRONIQUE & PHYSIQUE [FR], et al

Cited by

EP0253128A1; US4827276A; WO8801444A1

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