

Title (en)
Ultrahigh frequency energy distributor radiating directly.

Title (de)
Direkt strahlender Verteiler von Höchsthfrequenzenergie.

Title (fr)
Distributeur d'énergie hyperfréquence pouvant rayonner directement.

Publication
EP 0407258 B1 19941012 (FR)

Application
EP 90401775 A 19900622

Priority
FR 8909174 A 19890707

Abstract (en)
[origin: JPH0346403A] PURPOSE: To provide an optical plus matrix distributor having larger coupling and an application wide band by arranging asymmetric obstacles made of metallic studs on the inner surface of a sidewall of a guide so as to be formed on the longitudinal end of each conductive strip forming a main line. CONSTITUTION: This microwave energy distributor has a vertically opened guide constituted of parallel side walls 11, 12 forming a vertically hollow structure opened on one side face over the whole length. A load 16 for absorbing electromagnetic waves at the operation frequency is arranged on a rear part 13 in the hollow structure. Conductive strips 17, 18 like long plates are arranged on intermediate positions between sidewalls 11, 12 and asymmetric obstacles 19 to 22 consisting of metallic studs are arranged between respective strips 17, 18 and the insides of the sidewalls 11, 12 in the guide. These obstacles 19 to 22 are used for exciting a TEM mode to the aperture part from a TE mode propagated through the strips 17, 18.

IPC 1-7
H01Q 13/12

IPC 8 full level
H01P 5/04 (2006.01); **H01P 5/12** (2006.01); **H01Q 3/40** (2006.01); **H01Q 13/12** (2006.01); **H01Q 17/00** (2006.01)

CPC (source: EP US)
H01Q 13/12 (2013.01 - EP US); **H01Q 17/001** (2013.01 - EP US)

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0407258 A1 19910109; **EP 0407258 B1 19941012**; DE 69013247 D1 19941117; DE 69013247 T2 19950223; FR 2649543 A1 19910111; FR 2649543 B1 19911129; JP H0346403 A 19910227; US 5049893 A 19910917

DOCDB simple family (application)
EP 90401775 A 19900622; DE 69013247 T 19900622; FR 8909174 A 19890707; JP 17651190 A 19900705; US 54637190 A 19900629