

Title (en)
PLANAR EMITTER

Title (de)
PLANARER STRAHLER

Title (fr)
EMETTEUR PLANAIRE

Publication
EP 0886887 B1 19990922 (DE)

Application
EP 97914238 A 19970313

Priority
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Abstract (en)
[origin: US6204814B1] A planar emitter equipped with planar resonators that is simple, small in construction and consists of few, easily manufactural components, while at the same time having high frequency dependent system quality with the widest possible spectral range, has a plurality of sandwich-like layers (4, 5, 6, 7, 8) that are planned parallel to each other with the layer (5) being made of two different dielectric materials (14) and (15). The thickness (L1) of layer (14) is greater than the thickness (L2) of layer (15) with layer (4) having a plurality of spaced, thin layer, electrically conductive planar resonators (4) in contact with one side of layer (15). One side of layer (14) is in contact with an electrically conductive thin layer (6) that defines a common earthing member that has its opposite side in contact with layer (17) made of a dielectric material. A coupling network (3) is included in layer (8) and comprises microstrip circuits (3a-3f) in contact with layer (7). Means in the form of pins (9) extends through the layers (5, 6, 7) from said coupling network (3) to said planar resonators (4) to couple said planar resonators (4) electrically in phase.

IPC 1-7
H01Q 9/04

IPC 8 full level
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CPC (source: EP US)
H01Q 9/0407 (2013.01 - EP US); **H01Q 21/0075** (2013.01 - EP US)

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• EP 0383292 A2 19900822 - FUJITSU LTD [JP]
• WO 9509455 A1 19950406 - HOLLANDSE SIGNAALAPPARATEN BV [NL], et al

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