

Title (en)
Planar antenna.

Title (de)
Ebene Antenne.

Title (fr)
Antenne plane.

Publication
EP 0383597 A2 19900822 (EN)

Application
EP 90301627 A 19900215

Priority
JP 3558389 A 19890215

Abstract (en)
A planar antenna for receiving satellite broadcasting or the like. The antenna includes a dielectric substrate (42) having a first and a second surfaces; a first conductive plate (50) arranged to face the first surface with a predetermined distance therebetween and having an arrangement of a plurality of openings (66) which allow passage of radio waves therethrough to reach the dielectric substrate (42); a second conductive plate (56) arranged to face the second surface with a predetermined distance therebetween; an arrangement of a plurality of radiating elements (36) each of which is formed on the first surface to have a smaller area than that of one of the openings (66), associated with one of the openings (66), and together with the second conductive plate (56), forming an unbalanced planar circuit resonator which resonates to the radio waves; a signal deriving network (24) formed on the first surface for deriving signals that have been induced by the radio waves in each of the radiating elements (36) to the outside; and a waveguide member (67) provided in each of the openings (66) for guiding the radio waves incident on the opening to the associated radiating element (36) and concentrating the same thereon.

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H01Q 21/00; **H01Q 21/06**

IPC 8 full level
H01Q 1/36 (2006.01); **H01Q 13/08** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP)
H01Q 21/0081 (2013.01); **H01Q 21/065** (2013.01)

Cited by
DE4139245A1; EP1092245A4; EP2838160A1; US7123193B2; WO03075406A1

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EP 0383597 A2 19900822; **EP 0383597 A3 19910102**; **EP 0383597 B1 19950510**; AU 4974090 A 19900823; AU 631599 B2 19921203; DE 69019194 D1 19950614; DE 69019194 T2 19951207; JP H02214303 A 19900827

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