

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.

IPC 1-7  
**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)

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