

Title (en)  
SUBSTRATE ANTENNA

Title (de)  
SUBSTRATANTENNE

Title (fr)  
ANTENNE DE SUBSTRAT

Publication  
**EP 1062710 A1 20001227 (EN)**

Application  
**EP 99934369 A 19990218**

Priority  
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Abstract (en)  
[origin: WO9943039A1] A substrate antenna (400) that includes one or more conductive traces (402) supported on a dielectric substrate (404) having a predetermined thickness. Appropriate dimensions are selected for the lengths and widths of traces, based on the wavelength of interest, connecting elements, and space allocated. The supporting substrate (404) is mounted offset from and generally perpendicular to the ground plane (502) associated with the device with which the antenna is being used. The trace is electrically connected to a conductive pad (408) on one end. A signal feed (410) for the antenna is coupled to the conductive pad (408). The substrate antenna employs a very thin and compact structure which provides appropriate bandwidth. Antenna compactness and a greater variety of useful shapes allow the substrate antenna to be used very efficiently as an internal antenna for wireless devices.

IPC 1-7  
**H01Q 1/24**; **H01Q 1/38**; **H01Q 9/40**; **H01Q 9/42**

IPC 8 full level  
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