

Title (en)  
Transparent planar antenna structure

Title (de)  
Transparente planare Antennenstruktur

Title (fr)  
Structure d'antenne plane transparente

Publication  
**EP 0911906 A2 19990428 (EN)**

Application  
**EP 98119520 A 19981015**

Priority  
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Abstract (en)  
A transparent planar antenna for use over the LCD of a wireless communications unit is provided. The transparent planar antenna is fabricated from a thin film of metal mounted on a transparent insulator. The metal film is etched into either a grid or mesh structure. By proper choice of line widths and the spacing between lines, the conductive surface is made both transparent, and resonant to the opening frequency of the wireless unit. Because of the low resistance of the conductive surfaces, the resulting transparent antenna has substantially the same performance characteristics as traditional patch type antennas. <IMAGE>

IPC 1-7  
**H01Q 9/04**; **H01Q 1/22**; **H01Q 5/00**

IPC 8 full level  
**H01Q 1/22** (2006.01); **H01Q 1/24** (2006.01); **H01Q 5/00** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP)  
**H01Q 9/0407** (2013.01); **H01Q 9/045** (2013.01)

Cited by  
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