

Title (en)  
Antenna apparatus in wireless terminals

Title (de)  
Antenne in drahtlosen Terminals

Title (fr)  
Antenne dans terminaux sans fils

Publication  
**EP 0851530 A2 19980701 (EN)**

Application  
**EP 97309712 A 19971202**

Priority  
US 78197096 A 19961228

Abstract (en)  
A wireless terminal comprising a housing (102) that comprises an enclosed conductive element (200) that contains a radio has one or more openings (120) is used to provide both electromagnetic shielding and an integrated antenna. The openings (120) are excited to resonate, thereby forming a slot antenna for the radio Multiple openings can be used to provide antenna diversity. <IMAGE>

IPC 1-7  
**H01Q 1/24**; **H01Q 1/52**; **H01Q 13/10**

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/52** (2006.01); **H01Q 13/10** (2006.01); **H04B 1/38** (2006.01)

CPC (source: EP)  
**H01Q 1/243** (2013.01); **H01Q 1/526** (2013.01); **H01Q 13/16** (2013.01)

Cited by  
EP2109185A1; WO03052867A1; GB2434697B; FR2980309A1; CN104009284A; EP1858112A1; EP1560291A1; EP1418642A3; US2013257662A1; US9882284B2; GB2434697A; GB2363294A; GB2344201A; EP3293824A1; EP3293822A1; US9761951B2; US9722308B2; US7391378B2; US9917346B2; US9979078B2; US7161548B2; WO2009126423A1; WO2012159618A1; WO0062432A1; WO2013041511A1; WO2007136321A1; US8207897B2; US9973228B2; US9735461B2; US9906260B2; US6282433B1; US9673507B2; US10069209B2; US7389129B2; US7864123B2; US9647338B2; US9680212B2; US7327324B2; US8094079B2; US8907850B2; US9634383B2; US9948002B2; US10079428B2; US8106836B2; US8350761B2; US8410986B2; US8872708B2; US8994597B2

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FI SE

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