

Title (en)  
MODULAR ELECTRONIC SIGN SYSTEM

Title (de)  
MODULARES ELECTRONICHES ANZEIGESYSTEM

Title (fr)  
SYSTEME DE SIGNALISATION ELECTRONIQUE MODULAIRE

Publication  
**EP 0761020 B1 19981014 (EN)**

Application  
**EP 95920600 A 19950522**

Priority  
• US 9506448 W 19950522  
• US 24764394 A 19940523

Abstract (en)  
[origin: WO9532528A1] A modular microstrip antenna system has a first antenna portion (101), a second antenna portion (120) and a connector (124) for removably connecting the first (101) and second (120) antenna portions. In the first antenna portion (101), a radiating element (106) is mounted on a grounded dielectric substrate (108). The ground plane (110) has an opening (112) therethrough, the opening (112) aligned with the radiating element (106). The second antenna portion (120) has a conductive substrate on a dielectric substrate, the conductive substrate having an aperture (122) therethrough. On the other side of the dielectric substrate is a microstrip transmission line (126). The aperture (122) is aligned between the radiating element (106) and the transmission line (126), and sized to electromagnetically couple the radiating element (106) to the transmission line (126). The opening (112) in the ground plane (110) is sized to accommodate the aperture (122) to allow for the electromagnetic coupling.

IPC 1-7  
**H01Q 9/04**; **H01Q 1/32**; **H01Q 1/22**

IPC 8 full level  
**B60R 11/02** (2006.01); **B60R 13/10** (2006.01); **H01Q 1/22** (2006.01); **H01Q 1/32** (2006.01); **H01Q 1/50** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP KR)  
**H01Q 1/22** (2013.01 - EP); **H01Q 1/3283** (2013.01 - EP); **H01Q 9/04** (2013.01 - KR); **H01Q 9/0457** (2013.01 - EP)

Cited by  
US7598874B2; US7224279B2

Designated contracting state (EPC)  
DE ES FR GB IT NL

DOCDB simple family (publication)  
**WO 9532528 A1 19951130**; AU 2600195 A 19951218; AU 681525 B2 19970828; BR 9507694 A 19970923; CA 2189137 A1 19951130; DE 69505373 D1 19981119; DE 69505373 T2 19990408; EP 0761020 A1 19970312; EP 0761020 B1 19981014; ES 2122617 T3 19981216; JP H10500825 A 19980120; KR 970703626 A 19970703

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**US 9506448 W 19950522**; AU 2600195 A 19950522; BR 9507694 A 19950522; CA 2189137 A 19950522; DE 69505373 T 19950522; EP 95920600 A 19950522; ES 95920600 T 19950522; JP 53047895 A 19950522; KR 19960706576 A 19961120