

Title (en)
Transmission line

Title (de)
Übertragungsleitung

Title (fr)
Ligne de transmission

Publication
EP 1263077 A1 20021204 (EN)

Application
EP 01304526 A 20010523

Priority
EP 01304526 A 20010523

Abstract (en)
A device for transmitting electromagnetic energy is provided which comprises a conductive sheet (1), the conductive sheet having: a conductor portion (4); at least one ground plane portion; and at least two rows of slots (3) formed in the conductive sheet separating the conductor portion (4) from each ground plane portion, the slots in each row being periodically spaced from one another and adjacent rows of slots being shifted relative to one another. In use the conductor portion transmits electromagnetic waves. The use of a dielectric material is not required, substantially reducing cost and ease of manufacture. Microstrip-like patch radiators can also be implemented from a dielectric-less microstrip by enlarging the central region of the line. <IMAGE> <IMAGE>

IPC 1-7
H01P 3/00; **H01P 3/08**; **H01Q 13/10**

IPC 8 full level
H01P 1/201 (2006.01); **H01P 3/00** (2006.01); **H01Q 13/10** (2006.01)

CPC (source: EP)
H01P 1/2013 (2013.01); **H01P 3/003** (2013.01); **H01Q 13/106** (2013.01)

Citation (search report)
• [A] US 4365222 A 19821221 - LAMPERT NORMAN R
• [A] EP 1058335 A2 20001206 - MURATA MANUFACTURING CO [JP]
• [A] US 6198437 B1 20010306 - WATSON PAUL M [US], et al

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US11005169B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1263077 A1 20021204; AT E283554 T1 20041215; DE 60202061 D1 20041230; DE 60202061 T2 20050407; EP 1389353 A1 20040218; EP 1389353 B1 20041124; WO 02095864 A1 20021128

DOCDB simple family (application)
EP 01304526 A 20010523; AT 02745389 T 20020522; DE 60202061 T 20020522; EP 0206591 W 20020522; EP 02745389 A 20020522