

Title (en)
Waveguide monitoring arrangement

Title (de)
Überwachungseinrichtung für Hohlleiter

Title (fr)
Dispositif de surveillance pour guide d'ondes

Publication
EP 1341253 A1 20030903 (EN)

Application
EP 03250708 A 20030204

Priority
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Abstract (en)
An electromagnetic waveguide unit such as a diplexer includes a signal monitoring arrangement having a sampling passage (6) which links two sections (3, 4) of the waveguide for testing purposes allowing a proportion of the signal to bypass an electromagnetic cavity filter 5. The passage contains a cavity 7, and the waveguide sections have tuning projections 8 and 9 disposed opposite the passage 6. The size of the holes in the waveguide wall can thus be reduced to minimise return losses whilst allowing sampling across a broader range of operating frequencies. In addition, the spacing between the waveguide sections can be increased giving greater design flexibility. <IMAGE>

IPC 1-7
H01P 1/213

IPC 8 full level
H01P 1/213 (2006.01); **H01P 5/18** (2006.01)

CPC (source: EP)
H01P 1/2138 (2013.01); **H01P 5/181** (2013.01)

Citation (search report)
• [X] US 2423390 A 19470701 - KORMAN NATHANIEL I
• [X] US 2532539 A 19501205 - COUNTER VIRGIL A, et al
• [A] DE 3208029 A1 19830915 - SIEMENS AG [DE]
• [A] GB 2359197 A 20010815 - BSC FILTERS LTD [GB]

Cited by
CN114649657A; CN103490124A; KR20130021659A; US7821355B2; WO2010049922A1

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