

Title (en)
Arrangement for the radiation of millimeter waves.

Title (de)
Anordnung zur Abstrahlung von Millimeterwellen.

Title (fr)
Dispositif pour la radiation des ondes millimétriques.

Publication
EP 0649184 A3 19950628 (DE)

Application
EP 94115637 A 19941005

Priority
DE 4335232 A 19931015

Abstract (en)
[origin: EP0649184A2] A semiconductor substrate having an integrated antenna element is mounted upside down on a carrier plate, which is highly thermally conductive, for an arrangement for radiating millimetric waves. For its part, this carrier plate is connected to a heat sink in a highly thermally conductive manner. A cavity resonator is constructed in the heat sink. The efficiency of the semiconductor component can be improved by the rapid dissipation of the heat lost from the semiconductor component, from the substrate into the heat sink. <IMAGE>

IPC 1-7
H01Q 13/18

IPC 8 full level
H01Q 13/18 (2006.01)

CPC (source: EP)
H01Q 13/18 (2013.01)

Citation (search report)
• [A] DE 3922165 A1 19910117 - TELEFUNKEN SYSTEMTECHNIK [DE]
• [DA] MOYER ET AL.: "ACTIVE CAVITY-BACKED SLOT ANTENNA USING MESFET S", IEEE MICROWAVE AND GUIDED WAVE LETTERS, vol. 3, no. 4, April 1993 (1993-04-01), pages 95 - 97, XP000358562, DOI: doi:10.1109/75.208561

Cited by
EP0765001A1; US5767811A

Designated contracting state (EPC)
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EP 0649184 A2 19950419; EP 0649184 A3 19950628; EP 0649184 B1 19981230; CA 2117839 A1 19950416; CA 2117839 C 20040525; DE 4335232 A1 19950420; DE 59407555 D1 19990211

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EP 94115637 A 19941005; CA 2117839 A 19941011; DE 4335232 A 19931015; DE 59407555 T 19941005