

Title (en)  
Integral transceiver in millimetric waves

Title (de)  
Integrierter Millimeterwellen Sender/Empfänger

Title (fr)  
Emetteur-récepteur intégré en ondes millimétriques

Publication  
**EP 2466687 B1 20151125 (FR)**

Application  
**EP 11193822 A 20111215**

Priority  
FR 1060849 A 20101220

Abstract (en)  
[origin: EP2466687A1] The transceiver has an interposer plate (3) i.e. silicon plate, whose upper face bears a network of interconnections and lower face mounted on an electronic device. An integrated circuit chip (1) is mounted on the upper face of the plate. An antenna (30) includes a track formed on the upper face of the plate. A block (32) is fixed under the plate, and includes a recess (34) next to the antenna. A bottom part of the recess is metalized. Distance between the antenna and the bottom part is in the order of one-fourth value of wavelength by considering dielectric constants of interposed materials.

IPC 8 full level  
**H01Q 13/18** (2006.01); **H01Q 23/00** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP US)  
**H01Q 13/18** (2013.01 - EP US); **H01Q 23/00** (2013.01 - EP US)

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DOCDB simple family (publication)  
**EP 2466687 A1 20120620**; **EP 2466687 B1 20151125**; FR 2969397 A1 20120622; FR 2969397 B1 20130906; US 2013027274 A1 20130131; US 9070982 B2 20150630

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**EP 11193822 A 20111215**; FR 1060849 A 20101220; US 201213490334 A 20120606