

Title (en)  
Semiconductor device with antenna and collecting screen

Title (de)  
Halbleiterbauelement mit Antenne und Abschirmung

Title (fr)  
Dispositif semi-conducteur à antenne et écran collecteur

Publication  
**EP 1580837 B1 20070606 (FR)**

Application  
**EP 05290458 A 20050302**

Priority  
FR 0402710 A 20040316

Abstract (en)  
[origin: EP1580837A1] The device has layers deposited on a silicon substrate (2) in which an antenna (5) is formed. A collector screen is formed within the layers, and collects currents induced between the antenna and the substrate. The screen has a main branch that is connected to a fixed potential, and secondary branches that are connected to the main branch so that the screen presents a tree-like structure. An independent claim is also included for an integrated circuit structure comprising a substrate layer.

IPC 8 full level  
**H01Q 1/48** (2006.01); **H01Q 1/52** (2006.01); **H01Q 7/00** (2006.01); **H01Q 9/02** (2006.01); **H01Q 9/06** (2006.01); **H01Q 13/10** (2006.01)

CPC (source: EP US)  
**H01Q 1/48** (2013.01 - EP US); **H01Q 1/526** (2013.01 - EP US); **H01Q 7/00** (2013.01 - EP US); **H01Q 9/065** (2013.01 - EP US); **H01Q 13/106** (2013.01 - EP US)

Cited by  
US8035565B2; WO2007107923A1

Designated contracting state (EPC)  
DE FR GB IT

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**EP 1580837 A1 20050928; EP 1580837 B1 20070606**; DE 602005001282 D1 20070719; FR 2867899 A1 20050923; US 2005206576 A1 20050922; US 7180450 B2 20070220

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