

Title (en)
Method and device for generating electromagnetic fields

Title (de)
Verfahren und zu Erzeugung elektromagnetischer Felder

Title (fr)
Procédé et dispositif pour produire des champs électromagnétiques

Publication
EP 1841008 A1 20071003 (EN)

Application
EP 06425221 A 20060330

Priority
EP 06425221 A 20060330

Abstract (en)
A device is disclosed for generating an electromagnetic field (E, H) having the electrical field vector (E) or the magnetic field vector (H) concentrated around a target axis (z). The device includes an electromagnetic field source (16, 18; 21) for inducing a near-field configuration of the electromagnetic field having flux lines (F) of the electrical field vector (E) or the magnetic field vector (H) that have components both parallel to the target axis (z) and orthogonal thereto (x, y). A suppressor element (22; 22'), such as e.g. a ferrite or a dielectric disc is coupled to the field source (16, 18; 21) for suppressing the components of the flux lines (F) of the electrical field vector (E) or the magnetic field vector (H) that extend orthogonal to the target axis (z).

IPC 8 full level
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Citation (search report)

- [X] EP 0755092 A2 19970122 - PLESSEY SEMICONDUCTORS LTD [GB]
- [A] US 2004164907 A1 20040826 - KILLEN WILLIAM D [US], et al
- [A] EP 1300910 A2 20030409 - JASTERO TRADING LTD [CY]
- [A] US 5327148 A 19940705 - HOW HOTON [US], et al
- [A] US 3653054 A 19720328 - WEN CHENG PAUL

Designated contracting state (EPC)
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Designated extension state (EPC)
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