

Title (en)

Device with an electric, annular, insulated coil.

Title (de)

Vorrichtungen mit isolierter elektrischer ringförmiger Windung.

Title (fr)

Dispositif à enroulement électrique torique isolé.

Publication

**EP 0348316 A1 19891227 (FR)**

Application

**EP 89420226 A 19890622**

Priority

FR 8808982 A 19880624

Abstract (en)

The device according to the invention comprises a toric magnetic circuit (20) with rectangular cross-section, covered with an insulator, and on which is wound an internal electrical winding (26). Upper (56) and lower (57) toric caps are applied onto the upper face and the lower face of the internal electrical winding (26), and are covered with an external electrical winding (48). A space (62, 63) separates the respective edges of the upper cap (56) and of the lower cap (57), encouraging thermal exchanges. The invention improves the thermal performance of toric transformers. <IMAGE>

IPC 1-7

**H01F 31/00**

IPC 8 full level

**H01F 30/16** (2006.01)

CPC (source: EP)

**H01F 30/16** (2013.01)

Citation (search report)

- [A] US 4639707 A 19870127 - TANAKA KAZUHIRO [JP], et al
- [A] EP 0070783 A1 19830126 - LEGRAND SA [FR]
- [AP] EP 0298878 A1 19890111 - OPTELEC SA [FR]
- [A] GB 2026251 A 19800130 - CONNOR J

Cited by

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**EP 0348316 A1 19891227**; FR 2633440 A1 19891229; FR 2633440 B1 19901012

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