

Title (en)
Toroidal transformer with an integrated self-induction device.

Title (de)
Ringkerntransformator mit integrierter Selbstinduktionsanordnung.

Title (fr)
Transformateur torique à dispositif d'auto-induction intégré.

Publication
EP 0298878 A1 19890111 (FR)

Application
EP 88420220 A 19880624

Priority
FR 8709507 A 19870626

Abstract (en)
[origin: JPH01103815A] PURPOSE: To facilitate winding and assembly by forming a toroidal transformer from an open magnetic core having an annular sector that is parallel with an annular principal electric circuit defined by an air gap, and is placed between an internal electric winding and an external electric winding. CONSTITUTION: A subassembly is provided with a first electric winding of an appropriate number of turns wound around an electric circuit 20, that is, an internal electric winding 26. A magnetic core 42 is made of a laminate of rectangular magnetic metal sheets that is installed and bent from the outer side in the radial direction in the notch in a bar 35. After the installation, the metal sheets of the magnetic core 42 are held in an appropriate position in the notch by a peripheral tape 43 that insulates and holds the magnetic core 42 in position. An external winding 48 covers part of the magnetic core 42, the internal winding and a second air gap 47. This facilitates winding and assembling operations.

Abstract (fr)
Le transformateur comprend un circuit magnétique principal annulaire (20) fermé, sur lequel est bobiné un enroulement électrique intérieur (26). Un noyau magnétique (42), en forme de secteur annulaire ouvert, est maintenu en périphérie de l'enroulement intérieur par des barrettes périphériques (35). L'ensemble est recouvert par l'enroulement électrique extérieur (48). Le noyau magnétique (42) détermine la valeur de l'auto-inductance du transformateur.

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H01F 31/00; **H01F 27/30**

IPC 8 full level
H01F 30/00 (2006.01); **H01F 30/16** (2006.01)

CPC (source: EP KR US)
H01F 17/06 (2013.01 - KR); **H01F 30/16** (2013.01 - EP US); **H01F 2027/328** (2013.01 - EP US)

Citation (search report)
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