

Title (en)  
Partial gap magnetic core apparatus.

Title (de)  
Magnetkernvorrichtung mit Teilluftspalt.

Title (fr)  
Dispositif à noyau magnétique avec entrefer partiel.

Publication  
**EP 0577334 A2 19940105 (EN)**

Application  
**EP 93304935 A 19930624**

Priority  
US 90812992 A 19920702

Abstract (en)  
Potted wire-wound loop-core structures are based on cores which include partial gapped inductors or transformers with their reduced dependence of inductance on current during operation. Total enclosure of gaps by encircling core material is both magnetic and physical, thereby avoiding fringing magnetic fields as well as joint failure due to differential expansion of potting material. <IMAGE>

IPC 1-7  
**H01F 3/14**

IPC 8 full level  
**H01F 3/10** (2006.01); **H01F 3/14** (2006.01); **H01F 17/04** (2006.01); **H01F 27/24** (2006.01); **H01F 27/34** (2006.01); **H01F 38/02** (2006.01)

CPC (source: EP)  
**H01F 3/14** (2013.01); **H01F 27/346** (2013.01); **H01F 38/023** (2013.01); **H01F 2027/348** (2013.01)

Cited by  
DE102006034258A1; DE19528185A1; GB2463503A; JP2014090069A; WO0219350A1; WO2009114873A1; WO2004025816A3; US8102233B2; US9853565B2; US10992238B2; US8237530B2; US11018623B2; US9876430B2; US10673229B2; US11070051B2; US11489330B2; US10461687B2; US10468878B2; US10693415B2; US11183969B2; US11296650B2; US11424616B2; US7965165B2; US9639106B2; US9866098B2; US10007288B2; US10666125B2; US11205946B2; US11881814B2; US7898379B1; US8299885B2; US8350658B1; US9935458B2; US10637393B2; US11271394B2; US11476799B2; US8035472B2; US8294544B2; US8836463B2; US9627125B2; US9960731B2; US11579235B2; US11961922B2; US9680304B2; US9948233B2; US10097007B2; US11063440B2; US11962243B2; US6922883B2; US6965290B2; US11264947B2; US11687112B2; US11894806B2; US8410889B2; US8917156B2; US9644993B2; US9728324B2; US9923516B2; US10381977B2; US11002774B2; US11073543B2; US11183968B2; US11598652B2; US11620885B2; US9647442B2; US9853538B2; US9869701B2; US10447150B2; US10673222B2; US10931228B2; US10969412B2; US11183922B2; US11349432B2; US11867729B2; US9853490B2; US9941813B2; US11545912B2; US11742777B2; US10115841B2; US10396662B2; US10778025B2; US10931119B2; US11177663B2; US11177768B2; US11201476B2; US11728768B2; US11870250B2; US9673711B2; US9960667B2; US10116217B2; US11031861B2; US11309832B2; US11575260B2; US11575261B2; US11594968B2; US11594882B2; US11594881B2; US11594880B2; US11658482B2; US11735910B2; US7746209B1; US7772955B1; US7864016B1; US9831824B2; US9979280B2; US10230310B2; US10644589B2; US10886832B2; US10886831B2; US11183923B2; US11296590B2; US11632058B2; US11693080B2; US7893806B1; US9812984B2; US9819178B2; US9966766B2; US10230245B2; US10608553B2; US10651647B2; US10673253B2; US11043820B2; US11424617B2; US11682918B2; US11888387B2; US11929620B2

Designated contracting state (EPC)  
DE FR GB NL

DOCDB simple family (publication)  
**EP 0577334 A2 19940105**; **EP 0577334 A3 19940223**; CA 2096358 A1 19940103; JP H0696941 A 19940408

DOCDB simple family (application)  
**EP 93304935 A 19930624**; CA 2096358 A 19930517; JP 16065693 A 19930630