

## Title (en)

Toroidal inductance for radio interference suppression of phase-controllable semiconductor circuits

## Title (de)

Ringdrossel zur Funkenstörung von Halbleiterschaltungen nach dem Phasenanschnittverfahren

## Title (fr)

Inductance toroidale pour la suppression de parasites radiophoniques de circuits semi-conducteurs à commande par coupe de phase

## Publication

**EP 0794539 A1 19970910 (DE)**

## Application

**EP 97102212 A 19970212**

## Priority

DE 19608891 A 19960307

## Abstract (en)

The choke coil has a magnetic core made up of two weakly magnetic materials of different permeability and saturation induction. A ring shaped disk (4,5) is placed on at least one end of a ring core (1). The latter is formed of a stack of disks or from a wound strip of weakly magnetic material. The ring shaped disk (4,5) is made up of compressed flakes of amorphous or nanocrystalline alloys with addition of plastic binder. A ring shaped disk of compressed flakes may be fixed to each end of the ring core (3) of weakly magnetic material. The choke coil may be connected in series with a load and a control device operating according to the phase splitting process. The flakes may be arranged in the disk such that the length of the flakes runs in the direction of the flux.

## Abstract (de)

Eine besonders kompakte Funkentstördrossel erhält man bei Verwendung eines Kerns 1, der aus einem Scheiben- oder Bandkern 3 besteht, an dessen Stirnseiten ringförmige Scheiben 4,5 aus zusammengepreßten Flakes angebracht sind. Die Flakes sind mit Kunststoffbinder zusammengepreßt und bestehen aus amorphem oder nanokristallinem Material. <IMAGE>

## IPC 1-7

**H01F 3/10**; **H01F 17/06**

## IPC 8 full level

**H01F 3/10** (2006.01); **H01F 17/06** (2006.01)

## CPC (source: EP)

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## Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 007, no. 276 (E - 215) 9 December 1983 (1983-12-09)

## Cited by

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## Designated contracting state (EPC)

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## DOCDB simple family (application)

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