

Title (en)  
Toroidal inductance

Title (de)  
Toroiddrossel

Title (fr)  
Inductance toroidale

Publication  
**EP 0540958 B1 19960417 (DE)**

Application  
**EP 92118169 A 19921023**

Priority  
DE 4136176 A 19911102

Abstract (en)  
[origin: EP0540958A1] In order to be able to limit, for example, short-circuit currents of 100 kA or more in high-power converters, a toroidal inductor (1) having a plurality of turns is used, which has a plurality of segmented partial windings (2). Each partial winding (2) is in electrically conductive contact with at least one connecting element (3) in order to be able to connect adjacent partial windings (2) in series or a plurality of partial windings (2) in parallel. The partial windings (2) have an approximately identical current cross-section over their length; their width (a) is less in the inner region (4) than their width (b) at the peripheral outer edge (5). In consequence, a large number of turns and a modular inductor construction are possible, with a high mechanical strength. <IMAGE>

IPC 1-7  
**H01F 37/00**; **H01F 27/28**

IPC 8 full level  
**H01F 27/28** (2006.01); **H01F 37/00** (2006.01)

CPC (source: EP)  
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