

Title (en)
VARIABLE INDUCTANCE DEVICE

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Application
EP 83111475 A 19791019

Priority
CA 313821 A 19781020

Abstract (en)
[origin: US4393157A] The present invention relates to a variable inductor comprising a first closed magnetic circuit, formed of an anisotropic material, through which flows an alternative magnetic field, and a second closed magnetic circuit, also formed by an anisotropic material, through which circulates an adjustable direct current magnetic field. The first and second magnetic circuits are so disposed with respect to one another as to define at least two common magnetic spaces wherein the respective alternative and direct magnetic fields are orthogonally superimposed to orient the magnetic dipoles in the common spaces according to a direction predetermined by the intensity of the direct current magnetic field of the second circuit and thus to control the permeability of the first magnetic circuit to the alternative field. Arrangements for application of the variable inductance to monophasic and three-phase circuits are proposed, which inductance may then operate in self-control with or without an inverse control.

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H01F 29/14; H01F 21/08

IPC 8 full level
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H01F 21/08 (2013.01 - EP US); **H01F 29/146** (2013.01 - EP US); **H01F 2029/143** (2013.01 - EP US)

Citation (examination)
BROWN BOVERI MITTEILUNGEN, vol. 52, no. 7, juillet 1965 "Neuartige Schweissgleichrichter", pages 489-494

Cited by
EP4383285A1; FR3142851A1; CN116599162A

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