

Title (en)
Circuit with reduced direct current

Title (de)
Gleichstrom-Sparschaltung

Title (fr)
Circuit à courant continu réduit

Publication
EP 0671747 B1 19970917 (DE)

Application
EP 95103350 A 19950308

Priority
DE 4408296 A 19940311

Abstract (en)
[origin: EP0671747A2] The circuit is for a magnet system of an electromagnetic drive and has a spool or coil (1) with several windings (2,3,4). The windings (2,3,4) are connected to each other via capacitors (5,6) and are connected to the plus (7) and minus terminals (8) of the direct voltage supply. The connections are such that after a d.c. voltage has been applied, parallel charge currents (i1,i2,i3) flow to the terminals to charge the capacitors (5,6), through the windings (2,3,4). The currents contribute to the formation of the magnetic field of the spool (1). Afterwards, part of the previously flowing current (ig) flows through the windings (2,3,4) according to a series circuit. The flow direction in one of the coils (2,3,4) is opposite to that in the others and thus the contribution to the magnetic field is reduced.

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H01F 7/18

IPC 8 full level
H01F 7/18 (2006.01)

CPC (source: EP)
H01F 7/1816 (2013.01); **H01F 7/1833** (2013.01)

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Cited by
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