

Title (en)
POWER CAPACITOR BANK SWITCHING DEVICE

Title (de)
SCHALTUNGSANORDNUNG VON LEISTUNGSKONDENSATORBATTERIEN

Title (fr)
DISPOSITIF DE COMMUTATION DE BATTERIES DE CONDENSATEURS DE PUISSANCE

Publication
EP 0761010 A1 19970312 (FR)

Application
EP 96907544 A 19960315

Priority
• FR 9600405 W 19960315
• FR 9503586 A 19950323

Abstract (en)
[origin: WO9629714A1] A device for connecting any number of conduction-cooled power capacitors in parallel, in series or in parallel series. The device reduces to a negligible level the inductance of the connections as well as the magnetic field generated by the currents from each capacitor. The device is mainly designed for induction heating but also enables the capacitor bank to be connected to the operating inductive resistor. Said device essentially consists of at least two metal rods (1) made of a heat- and electricity-conducting material, provided with means (8, 9) for attaching the capacitors (4), and cooled by water flowing through a channel (12) provided lengthwise through the rod (1). Each end of the rod has a massive plate (2) perpendicular to the rod (1) and connectable to the terminals of the bank (11) by means of metal shims (3). The arrangement of the shims (3) is such that the capacitors attached to the rods (1) may be switched in parallel, in series or in parallel series.

IPC 1-7
H01G 2/08

IPC 8 full level
H01G 2/08 (2006.01); **H01G 2/00** (2006.01); **H01G 2/04** (2006.01); **H01G 4/228** (2006.01); **H01G 4/38** (2006.01); **H01G 9/008** (2006.01); **H02B 1/01** (2006.01); **H05K 7/02** (2006.01); **H05K 7/20** (2006.01)

CPC (source: EP US)
H01G 2/08 (2013.01 - EP US); **H01G 4/38** (2013.01 - EP US); **H01G 11/82** (2013.01 - EP US); **Y02E 60/13** (2013.01 - US)

Citation (search report)
See references of WO 9629714A1

Designated contracting state (EPC)
BE DE ES GB IT SE

DOCDB simple family (publication)
WO 9629714 A1 19960926; EP 0761010 A1 19970312; FR 2732156 A1 19960927; FR 2732156 B1 19970430; JP H10502218 A 19980224; US 5940263 A 19990817

DOCDB simple family (application)
FR 9600405 W 19960315; EP 96907544 A 19960315; FR 9503586 A 19950323; JP 52812896 A 19960315; US 75058397 A 19970814