

Title (en)
LIQUID-COOLED POWER RESISTOR AND ITS APPLICATION

Publication
EP 0066902 B1 19851121 (DE)

Application
EP 82200502 A 19820428

Priority
CH 332281 A 19810521

Abstract (en)
[origin: US4434417A] A liquid-cooled power resistor contains at least one resistive conductor which is arranged in a closed housing directly in de-ionized water employed as the cooling liquid or coolant. The resistive conductor is advantageously secured in diaphragms which not only serve as holding facilities for holding the resistive conductor, but also deflect or turn the cooling liquid. The resistive conductor is normally connected to two terminal pins. There also can be used a third terminal pin which taps the center or mid-point of the resistive conductor, so that there are available two ohmic values of the power resistor. The power resistor ensures for an effective and uniform removal of heat or thermal energy and possesses a high thermal capacity. The arrangement has a low inductance. The power resistor is particularly suitable for the wiring of thyristors in static converter installations.

IPC 1-7
H01C 1/082; **H01C 3/02**

IPC 8 full level
H01C 1/082 (2006.01); **H01C 3/02** (2006.01); **H01C 3/10** (2006.01)

CPC (source: EP US)
H01C 1/082 (2013.01 - EP US); **H01C 3/02** (2013.01 - EP US); **H01C 3/10** (2013.01 - EP US)

Cited by
DE4008422A1; EP0101623A1; US5508677A; DE4112677A1; FR2675622A1; FR2680042A1; WO2012019470A1

Designated contracting state (EPC)
CH DE FR LI SE

DOCDB simple family (publication)
EP 0066902 A1 19821215; **EP 0066902 B1 19851121**; DE 3267531 D1 19860102; US 4434417 A 19840228

DOCDB simple family (application)
EP 82200502 A 19820428; DE 3267531 T 19820428; US 37414582 A 19820503