

Title (en)
SELF-RECOVERING CURRENT LIMITING DEVICE HAVING LIQUID METAL

Title (de)
SELBSTERHOLENDE STROMBEGRENZUNGSEINRICHTUNG MIT FLÜSSIGMETALL

Title (fr)
DISPOSITIF LIMITEUR DE COURANT A AUTOREGENERATION AVEC METAL LIQUIDE

Publication
EP 1157401 A1 20011128 (DE)

Application
EP 00910699 A 20000224

Priority
• DE 19909558 A 19990305
• EP 0001512 W 20000224

Abstract (en)
[origin: US6621401B1] A self-recovering current-limiting device with a liquid metal includes two T-shaped electrodes for connection to an electric circuit to be protected. Each of the electrodes are made of a solid metal. Several compressor cavities which are partially filled with the liquid metal are situated one behind the other between the electrodes. The compressor cavities are formed by pressure-proof insulating bodies and by insulating intermediate walls which are provided with connecting channels and which are held by the insulating bodies. The insulating bodies and the intermediate walls form a uniform upper and lower half shell with opposite-lying joining surfaces. The half shells are connected in a sealed manner along joining surfaces in the area of a common middle plane of the connecting channels. Up to half of each of the electrodes is accommodated in corresponding recesses of the half shells, the electrodes extending with their respective middle limb out of the half shells.

IPC 1-7
H01H 87/00

IPC 8 full level
H01H 87/00 (2006.01)

CPC (source: EP US)
H01H 87/00 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6621401 B1 20030916; AT E254801 T1 20031215; DE 19909558 C1 20000525; DE 50004494 D1 20031224; EP 1157401 A1 20011128; EP 1157401 B1 20031119; WO 0054298 A1 20000914

DOCDB simple family (application)
US 91498302 A 20020124; AT 00910699 T 20000224; DE 19909558 A 19990305; DE 50004494 T 20000224; EP 0001512 W 20000224; EP 00910699 A 20000224