

Title (en)

CURRENT-LIMITING DEVICE WITH LIQUID METAL

Title (de)

STROMBEGRENZUNGSEINRICHTUNG MIT FLÜSSIGMETALL

Title (fr)

DISPOSITIF LIMITEUR DE COURANT A METAL LIQUIDE

Publication

EP 1415315 A1 20040506 (DE)

Application

EP 02760313 A 20020810

Priority

- DE 10139565 A 20010810
- EP 0208975 W 20020810

Abstract (en)

[origin: WO03015115A1] The invention relates to a self-recovering current-limiting device (10) with liquid metal. Electrodes are arranged in the region of the base of the chamber and one or several insulating separating walls are arranged between the electrodes (13.1, 13.2). The upper edge of the separating walls (6) lies below the free surface (18.1) of the liquid metal (18) and the current path (W) is embodied such that said path runs with a parallel counter flux in adjacent chambers and turns through 180 DEG above each separating wall. The separating walls have a relatively thin embodiment so that the electromagnetic forces easily pass through the separating walls. An annular arrangement gives a geometry which is well screened against external fields.

IPC 1-7

H01H 87/00; **H01H 81/00**

IPC 8 full level

H01H 87/00 (2006.01); **H01H 77/10** (2006.01); **H01H 81/00** (2006.01)

CPC (source: EP)

H01H 87/00 (2013.01); **H01H 77/10** (2013.01); **H01H 81/00** (2013.01)

Citation (search report)

See references of WO 03015115A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03015115 A1 20030220; DE 10139565 A1 20030306; DE 10139565 B4 20040729; EP 1415315 A1 20040506

DOCDB simple family (application)

EP 0208975 W 20020810; DE 10139565 A 20010810; EP 02760313 A 20020810