

Title (en)
High-tension switchgear with at least two vacuum switches connected in series for operating the high-tension switchgear

Title (de)
Hochspannungsschalgerät mit Serienschaltung von mindestens zwei Vakuumschaltkammern und Verfahren zum Betrieb des Hochspannungsschaltgerätes

Title (fr)
Appareil de commutation à haute tension avec montage en série d'au moins deux interrupteurs sous vide pour le fonctionnement de l'appareil de commutation à haute tension

Publication
EP 1037232 A3 20010725 (DE)

Application
EP 00104869 A 20000307

Priority
DE 19912022 A 19990317

Abstract (en)
[origin: EP1037232A2] High voltage switching equipment, comprises series-connected vacuum switch chambers (1, 2) of different sizes and/or contact piece designs. High voltage switching equipment comprises two or more series-connected vacuum switch chambers (1, 2) which have different physical sizes and/or contact piece designs, e.g. diameters, spacings or types, and are selected so that re-arcing and arc-backs of one chamber type are controlled by another chamber type. An Independent claim is also included for operation of the above switching equipment, by time-offset opening of the contact pieces of two or more vacuum switch chambers. Preferred Features: Quench chamber insulation may be achieved with sulfur hexafluoride (SF6), nitrogen (N2), air or other gaseous or liquid insulating material.

IPC 1-7
H01H 33/66

IPC 8 full level
H02B 13/02 (2006.01); **H01H 33/14** (2006.01); **H01H 33/66** (2006.01); **H01H 33/666** (2006.01)

CPC (source: EP US)
H01H 33/143 (2013.01 - EP US); **H01H 33/666** (2013.01 - EP US); **H01H 2033/566** (2013.01 - EP US)

Citation (search report)

- [A] GB 1080198 A 19670823 - LICENTIA GMBH
- [A] US 2859309 A 19581104 - SCHWAGER AUGUST C, et al
- [A] US 3814882 A 19740604 - HARROLD R
- [A] US 3813506 A 19740528 - MITCHELL G
- [A] DE 3811833 A1 19891019 - SIEMENS AG [DE]
- [A] FR 2075511 A5 19711008 - GEN ELECTRIC

Cited by
US7239492B2; WO02097839A1; WO2007085510A1

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DOCDB simple family (application)
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