

Title (en)

TEMPORARY OVERVOLTAGE LIMITER FOR HIGH VOLTAGE TRANSMISSION SYSTEMS

Title (de)

TEMPORÄRER ÜBERSpannungsbegrenzer für ein Hochspannungsübertragungssystem

Title (fr)

DISPOSITIF DE LIMITATION DE SURTENSION TEMPORAIRE, DESTINE A DES SYSTEMES DE TRANSMISSION DE TENSIONS ELEVEES

Publication

**EP 1159778 A1 20011205 (EN)**

Application

**EP 00904857 A 20000215**

Priority

- DK 0000062 W 20000215
- DK PA199900281 A 19990302

Abstract (en)

[origin: WO052805A1] The invention consists of a method to greatly enhance the Mvar absorption of a high voltage shunt reactor in response to excess Mvar suddenly appearing on a high voltage transmission system. A high voltage capacitor is connected in series with a shunt reactor in order to increase the reactor voltage, and thereby the Mvar absorption, as a function primarily of the capacitor value in combination with the dynamic impedance of the reactor in the saturated region of the reactor V/I characteristic. The new with the invention is that the Mvar absorption of the reactor is no longer dependent on the system voltage alone. The invention also includes a reactive device consisting of a multi phase shunt reactor with a capacitor connected in series with each phase.

IPC 1-7

**H02H 9/04; H02J 3/12**

IPC 8 full level

**H02J 3/18** (2006.01)

CPC (source: EP)

**H02J 3/1821** (2013.01); **Y02E 40/30** (2013.01)

Citation (search report)

See references of WO 0052805A1

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)

**WO 0052805 A1 20000908**; AU 2658000 A 20000921; EP 1159778 A1 20011205

DOCDB simple family (application)

**DK 0000062 W 20000215**; AU 2658000 A 20000215; EP 00904857 A 20000215