

Title (en)

SEMICONDUCTOR CIRCUIT, ESPECIALLY FOR IGNITION PURPOSES, AND THE USE OF THE SAME

Title (de)

HALBLEITER-SCHALTUNGSANORDNUNG, INSBESONDERE FÜR ZÜNDUNGSVERWENDUNGEN, UND VERWENDUNG

Title (fr)

CIRCUIT A SEMI-CONDUCTEUR, EN PARTICULIER POUR DISPOSITIFS D'ALLUMAGE ET SON UTILISATION

Publication

EP 1444780 A1 20040811 (DE)

Application

EP 02774426 A 20020930

Priority

- DE 0203700 W 20020930
- DE 10149777 A 20011009

Abstract (en)

[origin: DE10149777A1] A semiconductor power circuit breaker (SPCB) (100) has first (102) and second (101) main connections and a control connection (CC) (103). A clamping diode device with first (205a) and second (205b) parts connected in series between the first main connection and the CC clamps on an external voltage (VA) available on the first main connection. A control circuit (403) uses a preset operating condition for the SPCB to control a controllable semiconductor switch (402).

IPC 1-7

H03K 17/082

IPC 8 full level

F02P 3/04 (2006.01); **F02P 3/05** (2006.01); **H01L 21/822** (2006.01); **H01L 27/04** (2006.01); **H01L 29/06** (2006.01); **H01L 29/739** (2006.01); **H01L 29/78** (2006.01); **H02M 1/00** (2006.01); **H03K 17/082** (2006.01); **H03K 17/24** (2006.01); **H03K 17/56** (2006.01); **H03K 17/695** (2006.01); **H03K 17/08** (2006.01)

CPC (source: EP US)

F02P 3/051 (2013.01 - EP US); **H01L 29/402** (2013.01 - EP US); **H01L 29/7395** (2013.01 - EP US); **H03K 17/0828** (2013.01 - EP US); **F02D 2041/2065** (2013.01 - EP US); **F02D 2041/2075** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US); **H03K 2017/0806** (2013.01 - EP US)

Citation (search report)

See references of WO 03034590A1

Citation (examination)

JP 2001085618 A 20010330 - NISSAN MOTOR

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)

DE 10149777 A1 20030424; EP 1444780 A1 20040811; JP 2005506707 A 20050303; US 2004075103 A1 20040422; US 7057240 B2 20060606; WO 03034590 A1 20030424

DOCDB simple family (application)

DE 10149777 A 20011009; DE 0203700 W 20020930; EP 02774426 A 20020930; JP 2003537197 A 20020930; US 43384803 A 20031112