

Title (en)

SWITCH SYSTEM COMPRISING A VOLTAGE LIMITING CIRCUIT, SWITCHING ARM AND ELECTRICAL CONVERTER

Title (de)

SCHALTERSYSTEM MIT SPANNUNGSBEGRENZUNGSSCHALTUNG, SCHALTARM UND ELEKTRISCHEM WANDLER

Title (fr)

SYSTÈME D'INTERRUPTEUR AVEC UN CIRCUIT DE LIMITATION DE TENSION, BRAS DE COMMUTATION ET CONVERTISSEUR ÉLECTRIQUE

Publication

EP 3804137 A1 20210414 (FR)

Application

EP 19726418 A 20190528

Priority

- FR 1854719 A 20180531
- EP 2019063819 W 20190528

Abstract (en)

[origin: WO2019229062A1] The invention relates to a switch system comprising: a switch (1041); a discharge branch of a control terminal (G1) of the switch (1041); and a voltage limiting circuit (120) designed to inject a current (iL) into the discharge branch, between a discharge resistor (RD) and the control terminal (G1) of the switch (1041), in order to limit a switch voltage (VCE1). The voltage limiting circuit (120) comprises: an operational amplifier (AO) arranged to compare a voltage (V*CE1) representative of the switch voltage (VCE1) with a reference voltage (VREF), in order to supply an output voltage (Vs) according to the comparison; and a current generating circuit (124, 126) designed to generate the injected current (iL) according to the output voltage (Vs) of the operational amplifier (AO).

IPC 8 full level

H03K 17/082 (2006.01); **H03K 17/16** (2006.01)

CPC (source: EP)

H03K 17/0828 (2013.01); **H03K 17/165** (2013.01); **H03K 17/168** (2013.01)

Citation (search report)

See references of WO 2019229062A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019229062 A1 20191205; EP 3804137 A1 20210414; FR 3082067 A1 20191206; FR 3082067 B1 20210507

DOCDB simple family (application)

EP 2019063819 W 20190528; EP 19726418 A 20190528; FR 1854719 A 20180531