

Title (en)

DEVICE AND METHOD FOR MONITORING A POWER SEMICONDUCTOR SWITCH

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ÜBERWACHUNG EINES LEISTUNGSHALBLEITERSCHALTERS

Title (fr)

DISPOSITIF ET PROCÉDÉ SERVANT À SURVEILLER UN COMMUTATEUR SEMI-CONDUCTEUR DE PUISSANCE

Publication

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Application

EP 14726091 A 20140507

Priority

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Abstract (en)

[origin: WO2014202274A1] The invention relates to a device for monitoring a power semiconductor switch (10) which has means (30) for applying an HF voltage (UHF) with a frequency above a switching threshold of the power semiconductor switch (10) to the power semiconductor switch (10), means (36) for detecting an HF current (IHF,Ist) resulting from the application of the HF voltage (UHF) to the power semiconductor switch (10), means (40, 48) for comparing the resulting HF current (IHF,Ist) with an HF current (IHF,Soll) which is expected according to the switch state of the power semiconductor switch (10) on the basis of the application of the HF voltage (UHF) to the power semiconductor switch (10), and means (48) for generating a power semiconductor state signal (66) dependent on the result of the comparison. The invention also relates to a corresponding method for monitoring a power semiconductor switch (10).

IPC 8 full level

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CPC (source: EP RU US)

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Citation (search report)

See references of WO 2014202274A1

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DE 102013211411 A1 20141218; CN 105324675 A 20160210; CN 105324675 B 20180727; EP 2989476 A1 20160302; RU 2016101071 A 20170802; RU 2633294 C2 20171011; US 2016124040 A1 20160505; US 9829534 B2 20171128; WO 2014202274 A1 20141224

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