Title (en)
A METHOD OF CONTROLLING AN ELECTRONIC SWITCH AND AN ELECTRONIC SWITCH

Title (de)
EIN VERFAHREN ZUR STEUERUNG VON EINEM ELEKTRONISCHEN SCHALTER UND EIN ELEKTRONISCHER SCHALTER

Title (fr)
PROCEDE POUR COMMANDER UN COMMUTATEUR ELECTRONIQUE ET COMMUTATEUR ELECTRONIQUE

Publication
**EP 0671052 B1 19970730 (EN)**

Application
**EP 94900842 A 19931130**

Priority
• FI 9300510 W 19931130
• FI 925458 A 19921130

Abstract (en)
[origin: WO9413000A1] The present invention relates to a method of controlling an electronic switch and an electronic switch for carrying out the method. The electronic switch comprises an electromagnetic relay (1) and a controllable bidirectional semi-conductor switch (2), such as a triac, connected parallel with the switch (1b) of the relay and a control unit (3) for controlling the relay and the semi-conductor switch so that when connecting the load to a power source the semi-conductor switch is first turned on at the zero point of the AC voltage, subsequent to which and after a delay the switch of the relay is turned on, and when disconnecting the load from the power source, the switch of the relay is first turned off, subsequent to which and after a delay the semi-conductor switch is turned off at the zero point of the alternating current. According to the invention the control unit (3) also comprises means for turning off the semi-conductor switch (2) subsequent to turning on the switch (1b) of the relay (1) when connecting the load to a power source, and for turning on the semi-conductor switch (2) prior to turning off the switch (1b) of the relay (1) when disconnecting the load from the power source.

IPC 1-7
**H01H 9/56**

IPC 8 full level
**H01H 9/56** (2006.01); **H01H 9/54** (2006.01)

CPC (source: EP)
**H01H 9/542** (2013.01); H01H 9/56 (2013.01); H01H 2009/545 (2013.01)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
**WO 9413000 A1 19940609**; AT E156299 T1 19970815; DE 69312731 D1 19970904; DE 69312731 T2 19971204; DK 0671052 T3 19980316; EP 0671052 A1 19950913; EP 0671052 B1 19970730; ES 2107791 T3 19971201; FI 91115 B 19940131; FI 91115 C 19940510; FI 925458 A0 19921130; NO 306584 B1 19991122; NO 952118 D0 19950529; NO 952118 L 19950529; PL 173131 B1 19980130; PL 309188 A1 19950918; RU 2121183 C1 19981027; RU 95113710 A 19961227

DOCDB simple family (application)
**FI 9300510 W 19931130**; AT 94900842 T 19931130; DE 69312731 T 19931130; DK 94900842 T 19931130; EP 94900842 A 19931130; ES 94900842 T 19931130; FI 925458 A 19921130; NO 952118 A 19950529; PL 30918893 A 19931130; RU 95113710 A 19931130