

Title (en)
TWO-WIRE CONTROLLED SWITCHING

Title (de)
UMSCHALTUNG MIT ZWEIDRAHTSTEUERUNG

Title (fr)
COMMUTATION SOUS COMMANDE EN MODE A DEUX FILS

Publication
EP 1350322 A4 20050209 (EN)

Application
EP 01983290 A 20011109

Priority
• AU 0101451 W 20011109
• AU PR163500 A 20001123

Abstract (en)
[origin: WO0243244A1] A switching circuit which facilitates electrically controlled actuation of a switching device, such as a relay, in a two-wire circuit where access may be gained only to an active conductor. The switching circuit (10) comprises an electrically actuatable switching device (19) which is arranged to be connected in series with a load in the form of a lamp (11) in a single phase ac circuit (18). A solid state second switching device (20) is connected in series with the first switching device (19). A first energy storage device (21) is connected across the first and second switching devices and arranged under controlled conditions to deliver actuating power to an actuating element (22) of the first switching device (19). Also, a second energy storage device (23) is connected across the second switching device (20) and is arranged to provide power for gating the second switching device. Gating circuitry (24) associated with the second energy storage device (23) is provided to effect periodic ON-OFF gating of the second switching device (20) during the time that the first switching device (19) is actuated to a conducting state. Circuit connections (25 and 26) are made to the first and second energy storage devices (21 and 23) from the junction (27) of the first and second switching devices (19 and 20), the circuit connections providing for charge replenishment of the first energy storage device (21) and charging of the second energy storage device (23) during the OFF gating periods of the second switching device (20).

IPC 1-7
H03K 17/68; **H03K 17/725**; **H03K 17/79**; **G05F 3/04**; **H05B 39/04**; **H05B 39/06**

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CPC (source: EP US)
H05B 39/041 (2013.01 - EP US); **H05B 47/10** (2020.01 - EP US); **Y02B 20/00** (2013.01 - EP)

Citation (search report)
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• See references of WO 0243244A1

Designated contracting state (EPC)
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WO 0243244 A1 20020530; AU 1480302 A 20020603; AU PR163500 A0 20001214; CA 2429565 A1 20020530; CN 1214527 C 20050810; CN 1476671 A 20040218; EP 1350322 A1 20031008; EP 1350322 A4 20050209; NZ 525729 A 20030829

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