

Title (en)  
Inrush current limiting circuit

Title (de)  
Einschaltstrombegrenzungsschaltung

Title (fr)  
Circuit limiteur de courant d'appel

Publication  
**EP 0895443 A1 19990203 (FR)**

Application  
**EP 98410084 A 19980728**

Priority  
FR 9710034 A 19970731

Abstract (en)  
The lamp (L) is series-connected, across the AC e.g. mains supply (P,N), with a single-pole switch and a peak-logging circuit based on two MOSFET transistors (M1,M2). The load-carrying current connection between MOSFETs includes a resistance (Rm) providing current-related input levels to bipolar transistors (T1,T2) controlling the MOSFETs. Bypass diodes (D1,D2) ensure one MOSFET is inoperative during positive current half-cycles. The other during negative half-cycles. The series resistor provides current measurement for the relevant control transistor in both half-cycles. In one variant, a single peak-logger is used, with a full-wave rectifier. In another, a MOSFET is used in a chopping mode. Optionally, IGBTs replace MOSFETs.

Abstract (fr)  
L'invention concerne un circuit limiteur de courant d'appel d'une lampe (L) à filament, destiné à être connecté en série entre le filament et un interrupteur (K) d'alimentation par une tension alternative (Vac), comportant au moins un élément actif commandable, de limitation du courant à une valeur seuil prédéterminée. <IMAGE>

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**H05B 39/02**

IPC 8 full level  
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CPC (source: EP US)  
**H05B 39/02** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0735798 A1 19961002 - KORTE HEINRICH [DE]  
• [A] EP 0240402 A1 19871007 - BENDIX ELECTRONICS SA [FR]  
• [A] WO 9215052 A1 19920903 - BAYVIEW TECH GROUP INC [US]

Cited by  
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DE FR GB IT

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**EP 0895443 A1 19990203; EP 0895443 B1 20020925**; DE 69808202 D1 20021031; FR 2767017 A1 19990205; FR 2767017 B1 19991015; US 6445144 B1 20020903

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