

Title (en)

Electronic circuit for detecting filament wear of gas discharge lamps

Title (de)

Elektronische Schaltung zur Detektion des Wendelbruchs bei Gasentladungslampen

Title (fr)

Circuit électronique pour détecter l'usure des filaments de lampes à décharge

Publication

EP 1189487 A3 20050105 (DE)

Application

EP 01118281 A 20010730

Priority

DE 10046443 A 20000918

Abstract (en)

[origin: EP1189487A2] A DC portion of a coupling capacitor (C5) is analyzed by means of a helix. If the helix fractures, then a cut-off is triggered. An AC portion of a generator output (O) can be monitored by means of a second helix and consequently, if the second helix fractures, then a cut-off can also be triggered. Between two DC connectors (DC+,DC-) there is a series circuit of two semi-conductor switches (T6,T7) run as MOSFET switches.

IPC 1-7

H05B 41/298

IPC 8 full level

H05B 37/03 (2006.01); **H05B 41/298** (2006.01)

CPC (source: EP US)

H05B 41/2985 (2013.01 - EP US); **Y10S 315/07** (2013.01 - EP US)

Citation (search report)

- [A] EP 0808084 A2 19971119 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] EP 0111929 A1 19840627 - SIEMENS AG [DE]
- [A] DE 4120649 A1 19921224 - VOSSLOH SCHWABE GMBH [DE]

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1189487 A2 20020320; **EP 1189487 A3 20050105**; **EP 1189487 B1 20071107**; AT E377926 T1 20071115; AU 7216701 A 20020321; AU 775944 B2 20040819; CA 2357379 A1 20020318; CN 1345175 A 20020417; DE 10046443 A1 20020328; DE 50113223 D1 20071220; KR 20020021997 A 20020323; TW 522758 B 20030301; US 2002047604 A1 20020425; US 6566822 B2 20030520

DOCDB simple family (application)

EP 01118281 A 20010730; AT 01118281 T 20010730; AU 7216701 A 20010917; CA 2357379 A 20010917; CN 01133171 A 20010918; DE 10046443 A 20000918; DE 50113223 T 20010730; KR 20010056390 A 20010913; TW 90121291 A 20010829; US 94572501 A 20010905