

Title (en)
Fluorescent lamp energizing circuit

Title (de)
Schaltung zum Betreiben einer Leuchtstofflampe

Title (fr)
Circuit pour alimenter une lampe fluorescente

Publication
EP 0650312 B1 20000712 (EN)

Application
EP 94202932 A 19941011

Priority
CO 93414977 A 19931021

Abstract (en)
[origin: EP0650312A2] An improved energizing circuit for starting and regulating a gaseous discharge lamp. The circuit is 100% solid state and does not require the use of any inductive components or any filaments for its proper operation. The circuit is made up of several subcircuits including a rectifying/voltage-doubling circuit, a second multiplying circuit, a low power oscillating circuit and a high voltage amplifier circuit. A high frequency AC signal is used to ionize the gas and ignite the lamp, while a DC signal is generated by the circuit to keep the lamp illuminated once it is ignited. The size and weight of the integrated circuit ballast are such that it could be incorporated into the fluorescent lamp package itself. <IMAGE>

IPC 1-7
H05B 41/16; **H05B 41/232**

IPC 8 full level
H05B 41/02 (2006.01); **H05B 41/16** (2006.01); **H05B 41/23** (2006.01); **H05B 41/232** (2006.01)

CPC (source: EP KR)
H05B 41/14 (2013.01 - KR); **H05B 41/16** (2013.01 - EP); **H05B 41/232** (2013.01 - EP)

Cited by
EP1023818A4; EP0748147A3; US5920153A; WO9629846A1; WO2022264169A1

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

DOCDB simple family (publication)
EP 0650312 A2 19950426; **EP 0650312 A3 19960320**; **EP 0650312 B1 20000712**; AT E194747 T1 20000715; BR 9404212 A 19950627; CN 1106604 A 19950809; CO 4180415 A1 19950607; DE 69425217 D1 20000817; JP H07263153 A 19951013; KR 100233693 B1 19991201; KR 960016643 A 19960522

DOCDB simple family (application)
EP 94202932 A 19941011; AT 94202932 T 19941011; BR 9404212 A 19941021; CN 94117199 A 19941021; CO 93414977 A 19931021; DE 69425217 T 19941011; JP 27854194 A 19941019; KR 19940026892 A 19941020