

Title (en)
HIGH FREQUENCY BALLAST FOR GASEOUS DISCHARGE LAMPS

Publication
EP 0239420 B1 19920102 (EN)

Application
EP 87302692 A 19870327

Priority
US 84585386 A 19860328

Abstract (en)
[origin: EP0239420A1] An electronic frequency inverter circuit receives input electrical power at a lower frequency and energizes a load circuit (35) including gaseous discharge lamps (36,37) in a range of higher frequencies. First and second semiconductors (30,31) are operated alternately by a logic circuit (40) in current mode control such that the switches operate at the higher frequency range and the frequency of current in the load circuit varies as the magnitude of said source voltage varies. The load circuit has an impedance (38) which varies with frequency such that the peak amplitude of the load current remains substantially constant despite variations in the magnitude of said source voltage to achieve a desirable crest factor for the lamp current.

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H05B 41/24

IPC 8 full level
H05B 41/24 (2006.01); **H05B 41/285** (2006.01)

CPC (source: EP)
H05B 41/2856 (2013.01); **H05B 41/2858** (2013.01)

Cited by
EP0392834A1; EP0311424A3; EP0320944A1; EP0677982A1; US5563477A; EP0622888A1; US6172468B1

Designated contracting state (EPC)
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EP 87302692 A 19870327; AT 87302692 T 19870327; AU 7067187 A 19870326; CA 532219 A 19870317; DE 3775588 T 19870327; JP 7577687 A 19870328