

Title (en)

Electronic ballast for fluorescent lamp

Title (de)

Elektronisches Vorschaltgerät für eine Leuchtstofflampe

Title (fr)

Ballast électronique pour lampe à décharge

Publication

EP 0831677 A3 19981014 (EN)

Application

EP 97304183 A 19970616

Priority

CN 96119956 A 19960924

Abstract (en)

[origin: EP0831677A2] An electronic ballast for a fluorescent lamp includes a rectifier circuit (11), a filter circuit (16), a high frequency generating and control circuit (17), a starting circuit (18) for the fluorescent tube and main (14) and auxiliary (13) circuits used to increase the power factor of the ballast and to suppress the harmonic current interference. Because of the introduction of the main and the auxiliary current-uninterrupted circuits, the input current is continuous and follows the variation with the input voltage and the power factor of the ballast is increased while the post high frequency generating and control circuit tends to be stable in operation. Furthermore, the interference of the harmonic current for the ballast will be suppressed effectively, the contamination to power network will be reduced and the electrical security in operation will be enhanced. <IMAGE>

IPC 1-7

H05B 41/29

IPC 8 full level

H05B 41/28 (2006.01)

CPC (source: EP)

H05B 41/28 (2013.01)

Citation (search report)

- [X] WO 9607297 A2 19960307 - PHILIPS ELECTRONICS NV [NL], et al
- [Y] EP 0395776 A1 19901107 - SIEMENS AG [DE]
- [A] EP 0621743 A1 19941026 - KONINKL PHILIPS ELECTRONICS NV [NL]
- [Y] VERDERBER R R ET AL: "HARMONICS FROM COMPACT FLUORESCENT LAMPS", PROCEEDINGS OF THE INDUSTRY APPLICATIONS SOCIETY ANNUAL MEETING, DEARBORN, SEPT. 28 - OCT. 1, 1991, vol. VOL. 2, no. -, 28 September 1991 (1991-09-28), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 1853 - 1858, XP000299694

Cited by

EP1345311A3; WO03049507A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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