

Title (en)

POWER SUPPLY AND ELECTRONIC BALLAST WITH AUXILIARY PROTECTION CIRCUIT

Title (de)

ENERGIEVERSORGUNG UND ELEKTRONISCHES VORSCHALTGERÄT MIT HILFSSCHUTZSCHALTUNG

Title (fr)

ALIMENTATION ET BALLAST ELECTRONIQUE A CIRCUIT DE PROTECTION AUXILIAIRE

Publication

EP 2067235 A4 20100310 (EN)

Application

EP 07837873 A 20070907

Priority

- US 2007019519 W 20070907
- US 53763706 A 20060930

Abstract (en)

[origin: WO2008039293A2] An arrangement (10) comprises a front-end circuit (100), a back-end circuit (200), and an auxiliary protection circuit (300). Front-end circuit (100), which typically includes an EMI filter and rectifier circuitry, has first and second input connections (12,14) for receiving a conventional source of AC voltage (20). Back-end circuit (200), which typically includes power factor correction and inverter circuitry, is coupled to front-end circuit (100) and a load (30) such as one or more gas discharge lamps. Auxiliary protection circuit (300) is coupled between front-end circuit (100) and back-end circuit (200). During operation, auxiliary protection circuit (300) protects back-end circuit (200) from any malfunction or damage that may occur due to a line-sag condition or due to a phase-to-phase miswiring condition. Additionally, auxiliary protection circuit (300) significantly reduces the peak inrush current that is experienced by arrangement (10) following initial application of AC power.

IPC 8 full level

H02H 3/20 (2006.01); **H02J 9/02** (2006.01); **H05B 41/285** (2006.01)

CPC (source: EP KR)

H02H 3/00 (2013.01 - KR); **H02J 9/02** (2013.01 - EP KR); **H05B 41/285** (2013.01 - KR); **H05B 41/2853** (2013.01 - EP); **H05B 41/2856** (2013.01 - EP); **H02H 7/1213** (2013.01 - EP)

Citation (search report)

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