

Title (en)

RECTIFIER CIRCUIT SUITED TO POWER FACTOR CORRECTION

Title (de)

FÜR DIE LEISTUNGSFAKTORKORREKTUR ANGEPASSTE GLEICHRICHTERSCHALTUNG

Title (fr)

CIRCUIT REDRESSEUR ADAPTE A LA CORRECTION DE FACTEUR DE PUISSANCE

Publication

**EP 1314237 A1 20030528 (DE)**

Application

**EP 01960171 A 20010810**

Priority

- DE 0103076 W 20010810
- DE 10042141 A 20000828

Abstract (en)

[origin: WO0219505A1] The invention relates to a rectifier circuit suited to power factor correction, comprising a first (D1), second (D2), third (D3) and fourth (D4) diode in a bridge arrangement, an inductance (L1) and a capacitance (C1), whereby a first (10) and second pole (12) of the bridge arrangement are connected to a supply (U) which comprises at least one alternating voltage component. The inductance (L1) is arranged in series with the third (14) or fourth pole (16), the capacitor (C1) is arranged between the first (10) and the second pole (12) and two of the four diodes (D1, D2, D3, D4) are embodied as fast-recovery diodes.

IPC 1-7

**H02M 1/00**

IPC 8 full level

**H02M 1/00** (2007.01); **H02M 1/42** (2007.01); **H02M 7/06** (2006.01)

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Citation (search report)

See references of WO 0219505A1

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**WO 0219505 A1 20020307**; AU 776346 B2 20040902; AU 8172801 A 20020313; CA 2389409 A1 20020307; CA 2389409 C 20090526; CN 1258862 C 20060607; CN 1389014 A 20030101; DE 10042141 A1 20020314; EP 1314237 A1 20030528; KR 100830244 B1 20080516; KR 20020059641 A 20020713; TW I239709 B 20050911; US 2002122325 A1 20020905; US 6778373 B2 20040817

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