

Title (en)

AN ELECTRICALLY VARIABLE CURRENT LIMITING REACTOR FOR PRECIPITATORS

Publication

EP 0528805 A4 19930317 (EN)

Application

EP 91906521 A 19910314

Priority

US 9101745 W 19910314

Abstract (en)

[origin: WO9216302A1] An electrically variable current limiting reactor (24) which is usable in association with a power supply (14-22) for an electrostatic precipitator (10, 58) is disclosed herein. The current limiting reactor (24) is capable of having the inductance value thereof varied responsive to system operation conditions. Most particularly the inductance of the current limiting reactor (24) can be modified responsive to the form factor of the sinusoidal AC input current to the power supply transformer. Additionally, the inductance of the current limiting reactor (24) can be controlled responsive to the fractional conduction of the full wave rectified current waveform at the output of the full wave rectifier of the power supply. Other conditions can be monitored to control the inductance value of the current limiting reactor (24) such as physical system parameters. An automatic operating control may modify the inductance of the current limiting reactor responsive to the current entering the primary of the transformer of the power supply.

IPC 1-7

B03C 3/68

IPC 8 full level

B03C 3/68 (2006.01)

CPC (source: EP)

B03C 3/68 (2013.01)

Citation (search report)

- [X] US 4600411 A 19860715 - SANTAMARIA GEORGE T [US]
- [A] US 3507096 A 19700421 - HALL HERBERT J, et al
- See references of WO 9216302A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 9216302 A1 19921001; CA 2082056 A1 19920915; CA 2082056 C 19960910; DE 69127815 D1 19971106; EP 0528805 A1 19930303; EP 0528805 A4 19930317; EP 0528805 B1 19971001

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