Title (en)

HIGH VOLTAGE POWER SUPPLY FOR ELECTROSTATIC PRECIPITATOR

Title (de)

HOCHSPANNUNGSENERGIEVERSORGUNG FÜR EINEN ELEKTROSTATISCHEN ABSCHEIDER

Title (fr)

ALIMENTATION EN COURANT HAUTE TENSION POUR PRÉCIPITATEUR ÉLECTROSTATIQUE

Publication

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Application

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Abstract (en)

[origin: WO2009090165A2] The invention relates to a high voltage DC power supply system for energizing a number of fields of an electrostatic precipitator (12), said system comprising a high voltage DC-bus (1) consisting of a three-phase transformer-rectifier (3,4) and a L-C filter (5,6) and a number of individual high voltage DC power supplies (8) one for each field of the precipitator (13), and where the high voltage DC-bus (1) is common for these high voltage DC power supplies. Each individual high voltage DC power supply comprises in turn a switching device (9) in series with a series inductance (11) and a high voltage diode (10); and wherein said system is arranged to be coupled to a limited number of fields (13) of an electrostatic precipitator (12). The invention relates to provide such a high voltage DC supply system with enhanced reliability compared to present similar solutions and at a lower cost. This is achieved, when the switching device (9) of the system has turn-off capability and when the individual power supplies (8) are fed from a common and sturdy high voltage DC-bus (1).

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Cited by

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