

Title (en)

Method of regulating the voltage of an electrical precipitator in a plant.

Title (de)

Verfahren zum Regeln der Spannung eines in einer Anlage eingesetzten Elektrofilters.

Title (fr)

Méthode de réglage de la tension d'un électrofiltre placé dans une installation.

Publication

EP 0039817 A1 19811118 (DE)

Application

EP 81103149 A 19810427

Priority

DE 3017685 A 19800508

Abstract (en)

[origin: US4432061A] A system for controlling the voltage of an electrofilter of the type which, after a voltage breakdown, substantially reduces the magnitude of the electrofilter voltage. After a predetermined deionization time, the filter voltage is raised to a new level which is lower than the filter voltage at which the initial voltage breakdown occurred, by a predetermined amount. The filter voltage is subsequently raised in accordance with a predetermined voltage-time function until a further voltage breakdown occurs. The electrofilter voltage is controlled by a microcomputer system in accordance with stored control parameter values. The stored control parameter values are advantageously recalled to control the electrofilter voltage in response to the operating state of a plant in which the electrofilter is employed. In plants wherein a plurality of electrofilters are employed, each such electrofilter is controlled by an associated microcomputer system, the plural microcomputer systems being controlled by a central pilot computer. The central pilot computer of the plant computes strategies which enhance the energy efficiency of the overall electrofilter purification system.

Abstract (de)

Die Erfindung betrifft die Regelung der Spannung eines Elektrofilters (1). Bei der Inbetriebnahme der mit einem Mikrocomputersystem (9) arbeitenden Filtersteuerung werden in den Speichern (61, 62, 63) Parameterwerte von Spannungsabsenkung bei Durchschlag, von Nennströmen usw eingesetzt und prozeßabhängig (Leitung 11) wirksam gemacht, so daß ein optimaler Arbeitspunkt eingehalten wird.

IPC 1-7

B03C 3/68

IPC 8 full level

B03C 3/68 (2006.01)

CPC (source: EP US)

B03C 3/68 (2013.01 - EP US); **Y10S 323/903** (2013.01 - EP US)

Citation (search report)

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