Title (en)

Method and device to supply high-voltage pulses to an electrostatic filter.

Title (de)

Verfahren und Einrichtung zur Versorgung eines Elektroabscheiders mit Hochspannungsimpulsen.

Title (fr)

Procédé et dispositif pour alimenter en impulsions haute tension un filtre électrostatique.

Publication

EP 0197369 A1 19861015 (DE)

Application

EP 86103602 A 19860317

Priority

DE 3511622 A 19850329

Abstract (en)

[origin: US4670829A] An electrostatic precipitator is fed high voltage pulses by a pulse generating circuit including a high voltage transformer and a first thyristor switch connected in series with a primary winding of the transformer. Magnetic saturation of the core of the high voltage transformer is prevented by recurrently short circuiting the primary winding of the transformer by means of a second thyristor switch connected in parallel to the primary winding. The second thyristor switch is closed for a period of time extending from a first instant following a high voltage pulse crest to a second instant at or before the start of a pulse generating cycle subsequent to the pulse crest.

Abstract (de)

Bei der Versorgung eines Elektroabscheiders (A) mit Hochspannungsimpulsen wird eine magnetische Sättigung des Hochspannungstransformators (H) verhindert, indem nach jedem Impuls die Primärwicklung (W1) zur Unterstützung des Entladevorgangs des Elektroabscheiders (A) durch einen Halbleiterschalter (T2) kurzgeschlossen wird.

IPC 1-7

B03C 3/68

IPC 8 full level

B03C 3/66 (2006.01); **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)

- [X] DE 2162988 A1 19720713 - INT STANDARD ELECTRIC CORP
- [Y] DE 3308411 A1 19840913 - SIEMENS AG [DE]
- [Y] EP 0108963 A1 19840523 - WALTHER & CIE AG [DE]
- [Y] US 4061961 A 19771206 - BAKER FORESTER C
- [AD] EP 0111794 A1 19840627 - METALLGESELLSCHAFT AG [DE], et al

Designated contracting state (EPC)

AT CH DE FR GB LI SE

DOCDB simple family (publication)

EP 0197369 A1 19861015; **EP 0197369 B1 19891213**; AT E48547 T1 19891215; AU 5531686 A 19861002; AU 573433 B2 19880609; DE 3511622 A1 19861009; DE 3667411 D1 19900118; JP S61230758 A 19861015; US 4670829 A 19870602; ZA 862313 B 19861126

DOCDB simple family (application)

EP 86103602 A 19860317; AT 86103602 T 19860317; AU 5531686 A 19860327; DE 3511622 A 19850329; DE 3667411 T 19860317; JP 6827486 A 19860326; US 84592786 A 19860328; ZA 862313 A 19860327