

Title (en)

Method and apparatus for cleaning a soot filter.

Title (de)

Verfahren und Vorrichtung zum Reinigen eines Russfilters.

Title (fr)

Procédé et dispositif de nettoyage d'un filtre à suie.

Publication

**EP 0417383 B1 19940302 (DE)**

Application

**EP 90105424 A 19900322**

Priority

DE 3930428 A 19890912

Abstract (en)

[origin: EP0417383A2] In a process for cleaning a soot filter (4) in the exhaust pipe (2) of a diesel engine (3), the flow of exhaust gas (5) is directed through a burner (1). When the load on the soot filter (4) reaches a certain level, the burner (1) is ignited by injection of fuel into the burner (1). The soot that has collected in the soot filter (4) is burned by the hot combustion gas. This regeneration of the soot filter (4) is initiated, however, only when the instantaneous operating point of the engine (3) lies within a predetermined ignition characteristic field (Z). The fuel injection stops as soon as the motor reaches an operating point which lies outside a predetermined combustion characteristic field (B) that is greater than the ignition characteristic field (Z).

IPC 1-7

**F01N 3/02**; **F01N 9/00**

IPC 8 full level

**F01N 3/02** (2006.01); **F01N 3/025** (2006.01); **F01N 9/00** (2006.01); **F02D 41/38** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP KR)

**F01N 3/02** (2013.01 - KR); **F01N 3/025** (2013.01 - EP); **F02D 41/38** (2013.01 - EP); **F02B 3/06** (2013.01 - EP)

Cited by

DE102014108878A1; DE4303709A1; DE4303709C2; DE4303711A1; DE4303711B4; DE102007021598A1; DE4303625A1; DE4303625B4; DE4130376A1; US8615984B2; EP1785605A2; EP1990513B2

Designated contracting state (EPC)

DE ES FR IT SE

DOCDB simple family (publication)

**EP 0417383 A2 19910320**; **EP 0417383 A3 19910502**; **EP 0417383 B1 19940302**; DE 59004756 D1 19940407; KR 0145522 B1 19980817; KR 920701619 A 19920812; WO 9104394 A1 19910404

DOCDB simple family (application)

**EP 90105424 A 19900322**; DE 59004756 T 19900322; EP 9001455 W 19900831; KR 910700478 A 19910511