

Title (en)
SOOT FILTER REGENERATION DEVICE

Publication
EP 0218047 B1 19890503 (DE)

Application
EP 86111153 A 19860812

Priority
DE 3532778 A 19850913

Abstract (en)
[origin: EP0218047A1] 1. Apparatus for the regeneration of soot filters disposed in the exhaust pipe of internal combustion engines and with, disposed in the exhaust pipe in the vicinity of the soot filter a burner containing a fuel jet, characterized in that the burner (20) is an oil burner, possibly as an alternative a burner which can be operated by gas, comprising a mixing tube (24) associated with the fuel jet (34), and, surrounding the mixer tube, a flame tube (47, 47') defining a combustion zone (46) and in that the burner (20) is furthermore so constructed that part of the hot gases from the combustion zone flow back into the mixer tube on the inlet side and in that there is associated with the burner (20) a device (45 ; 70) with which, in the end portion or downstream of the flame tube (47, 47'), it is possible to feed to the hot gas (23) produced by the burner a substantially cooler oxygen-bearing gas (60, 13) to be blended with the former and cool it down to a temperature adequate to burn off the soot particles.

IPC 1-7
F01N 3/02

IPC 8 full level
F01N 3/02 (2006.01); **F01N 3/025** (2006.01)

CPC (source: EP)
F01N 3/025 (2013.01)

Citation (examination)
Diesel Particulate Trap Regeneration Techniques (SAE-810118)

Cited by
US8641411B2; EP2313622A4; DE102007030606A1; EP1788210A3; EP0296435A3; DE102014108878A1; FR2902137A1; EP0532031A1; GB2408470A; GB2408470B; DE3728006A1; US7685811B2; US7243489B2; US7628011B2; US7118613B2; US7581389B2; WO0229219A1; WO2007141433A1; US7025810B2; US7908847B2; US8789363B2; US9328640B2; EP0331795B1

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