

Title (en)
Catalytic granule converter.

Title (de)
Schüttgutkatalysator.

Title (fr)
Catalyseur à granules.

Publication
EP 0258813 A1 19880309 (DE)

Application
EP 87112421 A 19870826

Priority
DE 3631392 A 19860916

Abstract (en)
[origin: US4748807A] A loose material catalyzer disposed in the exhaust pipe of an internal combustion engine for purifying the exhaust gases thereof. The catalyzer includes a housing having a cylindrical wall. A first perforated plate is disposed in the housing essentially perpendicular to the cylindrical wall thereof, and receives exhaust gases for purification. A second perforated plate is disposed in the housing essentially perpendicular to the cylindrical wall thereof and allows purified exhaust gases to proceed downstream. A catalyst bed is disposed in the housing and is bounded by the cylindrical wall thereof and the two perforated plates. The catalyst bed is provided with granular catalyst material that tends to disappear during use, whereby the first, upstream perforated plate is axially movably disposed in the housing to compensate for the disappearance of the catalyst material. A magnet arrangement is disposed on the outside of the catalyzer and includes an armature, in the catalyzer, that acts on the first perforated plate to press the latter against the material of the catalyst bed.

Abstract (de)
Schüttgutkatalysator zur Reinigung von Abgasen einer Brennkraftmaschine, der in deren Abgasleitung angeordnet ist und aus einem zylindrischen Gehäuse (25) besteht, in dem das Katalysatorbett (26) durch radial angeordnete Siebplatten (31, 32) eingeschlossen ist, von denen die eine (32) durch Einwirkung eines Ankers (34) aus ferromagnetischem Material und einer außerhalb der Abgasströmung vorgesehenen Magnetanordnung (20) axial verschiebbar ist.

IPC 1-7
F01N 3/28

IPC 8 full level
B01D 53/86 (2006.01); **B01J 8/02** (2006.01); **F01N 3/28** (2006.01)

CPC (source: EP US)
F01N 3/2846 (2013.01 - EP US); **F01N 2350/08** (2013.01 - EP US)

Citation (search report)
• [A] FR 2173398 A5 19731005 - INST FRANCAIS DU PETROLE [FR]
• [A] DE 1915658 A1 19701008 - BRAN & LUEBBE
• [A] DE 1436294 A1 19681031 - SOLVAY WERKE GMBH

Cited by
CN110208445A

Designated contracting state (EPC)
AT DE ES FR GB IT NL SE

DOCDB simple family (publication)
EP 0258813 A1 19880309; DE 3631392 A1 19880714; JP S63159612 A 19880702; US 4748807 A 19880607

DOCDB simple family (application)
EP 87112421 A 19870826; DE 3631392 A 19860916; JP 21809087 A 19870902; US 9222987 A 19870902