

Title (en)

EXHAUST TREATMENT UNIT WITH A CATALYST ARRANGEMENT AND METHOD FOR THE TREATMENT OF EXHAUST GASES

Title (de)

ABGASREINIGUNGSANLAGE MIT EINER KATALYSATORANORDNUNG UND VERFAHREN ZUR REINIGUNG VON ABGASEN

Title (fr)

INSTALLATION D'EPURATION DE GAZ D'ECHAPPEMENT EQUIPEE D'UN ENSEMBLE CATALYSEUR ET PROCEDE D'EPURATION DES GAZ D'ECHAPPEMENT

Publication

EP 1330598 A1 20030730 (DE)

Application

EP 01987841 A 20011016

Priority

- DE 0103911 W 20011016
- DE 10051358 A 20001017

Abstract (en)

[origin: WO0233231A1] The invention relates to an exhaust treatment unit with a catalyst arrangement, comprising a storage catalyst (1, 10), for the reduction of nitrogen oxides and an introduction device (2), for the introduction of a reducing agent on the input side of the storage catalyst (1), during a regeneration phase. According to the invention, at least part of the exhaust stream leaving the storage catalyst (1) may be recycled, whereby a recycle line (3) is provided, in which an exhaust supply pump (4) can be arranged. The exhaust recycling to the storage catalyst (1), during the regeneration phase, reduces the oxygen content of the exhaust gas and makes possible a reduction in the amount of added reducing agent, such as fuel.

IPC 1-7

F01N 3/20; B01D 53/86; B01D 53/94

IPC 8 full level

F01N 13/08 (2010.01); **B01D 53/94** (2006.01); **F01N 3/08** (2006.01); **F01N 3/20** (2006.01); **F01N 3/24** (2006.01); **F01N 3/28** (2006.01); **F01N 3/36** (2006.01); **F01N 13/02** (2010.01); **F01N 13/04** (2010.01)

CPC (source: EP US)

B01D 53/9431 (2013.01 - EP US); **F01N 3/0814** (2013.01 - EP US); **F01N 3/0878** (2013.01 - EP US); **F01N 3/103** (2013.01 - EP US); **F01N 13/009** (2014.06 - EP US); **F01N 13/011** (2014.06 - EP US); **F01N 2240/30** (2013.01 - EP US); **F01N 2290/06** (2013.01 - EP US); **F01N 2410/12** (2013.01 - EP US); **F01N 2570/14** (2013.01 - EP US); **F01N 2610/02** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US)

Citation (search report)

See references of WO 0233231A1

Cited by

CN103748327A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 0233231 A1 20020425; DE 10051358 A1 20020620; EP 1330598 A1 20030730; JP 2004511711 A 20040415; US 2004076566 A1 20040422

DOCDB simple family (application)

DE 0103911 W 20011016; DE 10051358 A 20001017; EP 01987841 A 20011016; JP 2002536190 A 20011016; US 39929103 A 20031124