

Title (en)

LIQUID UREA EXHAUST GAS TREATMENT ADDITIVE

Title (de)

FLÜSSIGER HARNSTOFFZUSATZ ZUR ABGASBEHANDLUNG

Title (fr)

ADDITIF DE TRAITEMENT DE GAZ D'ECHAPPEMENT LIQUIDE A BASE D'UREE

Publication

**EP 1140327 A1 20011010 (EN)**

Application

**EP 99965882 A 19991123**

Priority

- US 9927819 W 19991123
- US 10942898 P 19981123

Abstract (en)

[origin: WO0030733A1] Methods for the treatment of combustion effluent containing nitrogen oxides are provided. According to these methods, the combustion effluent is treated with a liquid treatment additive composition comprising urea, water and an oxygenated organic compound, in the presence of a catalyst. The treatment additive compositions of the present invention have lower freezing points than water/urea solutions, which allows use and storage of the treatment additive at temperatures below 10 DEG F (-12 DEG C), if necessary.

IPC 1-7

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

IPC 8 full level

**F01N 3/08** (2006.01); **B01D 53/56** (2006.01); **B01D 53/86** (2006.01); **B01D 53/94** (2006.01); **B01J 12/00** (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP)

**B01D 53/56** (2013.01); **B01D 53/9409** (2013.01); **B01J 12/007** (2013.01); **F01N 3/2066** (2013.01); **F01N 2610/02** (2013.01); **F23J 2215/10** (2013.01); **F23J 2219/10** (2013.01); **Y02A 50/20** (2017.12); **Y02T 10/12** (2013.01)

Cited by

CN108261922A; US2021220772A1; US11925898B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0030733 A1 20000602**; AU 2156000 A 20000613; EP 1140327 A1 20011010; EP 1140327 A4 20011010; JP 2002530575 A 20020917

DOCDB simple family (application)

**US 9927819 W 19991123**; AU 2156000 A 19991123; EP 99965882 A 19991123; JP 2000583610 A 19991123