

Information on Search Strategy - Pilot phase (see OJ 2015, A86)

The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number

PCT/EP2017/074368

TITLE: A METHOD FOR REMOVING NITROGEN OXIDES FROM A GAS USING AN IRON EXCHANGED ZEOLITE CATALYST

APPLICANT: CASALE SA

IPC CLASSIFICATION: B01D53/86

EXAMINER: Pöhlmann, Robert

CONSULTED DATABASES: WPI

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: B01D53/8625, B01D53/8628, B01D2251/2062, B01D2255/20738, B01D2255/50, B01D2255/504, B01D2258/0283

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

Method for removing nitrogen oxides from a gas stream (flue gas from combustion or tail gas from absorber of nitric acid production) wherein ammonia is injected into the gas stream with a ratio of NH₃ to NO_x in the gas greater than 1.33 and the gas is then contacted with a catalytic bed comprising an iron exchanged zeolite catalyst (e.g. of the Fe-ZSM-5 type). The catalyst is preferably operated at 400-450 °C. A second de-NO_x catalytic bed may be applied before NH₃ injection.