

Title (en)

CATALYTIC CONVERSION OF GASES VIA CATION-EXCHANGEABLE ALUMINO-SILICATE MATERIALS

Title (de)

KATALYTISCHE UMWANDLUNG VON GASSEN MIT HILFE VON ALUMINO-SILICATEN MIT KATIONENAUSTAUSCHKAPAZITÄT

Title (fr)

CONVERSION CATALYTIQUE DE GAZ A L'AIDE DE MATIERES ALUMINO-SILICATES ECHANGEUSES DE CATIONS

Publication

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Application

EP 98933360 A 19980715

Priority

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- AU PO787797 A 19970715

Abstract (en)

[origin: WO9903566A1] A process for catalytic conversion and/or adsorption of gases inclusive of NO_x, SO_x, CO₂, CO, dioxins and PAHs and combinations thereof wherein said gases may contain particulates which include contacting one or more of such gases with an alumino-silicate material having: (i) a primarily tetrahedrally co-ordinated aluminium as established by the fact that the ²⁷Al Magic Angle Spinning (MAS) provides a single peak at 55-58 ppm (FWHM = SIMILAR 23 ppm) relative to Al(H₂O)₆<3+>; and (ii) a cation exchange capacity of at least 1 meq 100 g<-1> in aqueous solution at room temperature.

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B01D 53/00; B01J 29/00

IPC 8 full level

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