

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-132579						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		Method for reducing nitrous oxide, catalytic, device for reducing the nox.				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		B01D53/86				
BASES DE DATOS CONSULTADAS.						
ESPACENET		Patent scope		Patbase		USPTO
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
WIPO	03/07/2013	Selective catalytic reduction of N2O US2002127163	1-5, 8-10, 12-19	Novedad	X	
		Catalyst for removing nitrous oxide in exhaust gas JPH06126177	1-5, 8-11, 13-17	Novedad		X
		catalyst for decomposing N2O, its use and method for the production thereof WO0158570	13-17, 19	Novedad		X
		Method for the simultaneous removal of nitrogen oxides and laughing gas from a gas stream containing nitrogen oxides and laughing gas WO02060563	1-19	A		X
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
Method for reducing nitrous oxide in gases and corresponding catalysts WO9964139						
Method For Reducing the Nitrogen Oxide Concentration in Gases US 20080241034						
Catalytic exhaust gas treatment apparatus US 3733181						
Method and device for reducing the nox and n2o of gases WO03105998						
Installation for treatment of fluids comprising multiple beds of particles supported by a separation grid EP1022056						
Denitrification method US 20050244320						
Method for the removal of nox and n2o from the residual gas in nitric acid production US2003143142						
Observaciones						
Fecha del reporte de búsqueda:		30/11/2015				

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worldwide.espacenet.com/publicationDetails/biblio?CC=WO&NR=9964139A1&KC=A1&FT=D&ND=3&date=19991216&DB=EPODOC&locale=en_EP

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WO/9964139 (A1) → WO/9964139 (A1)

WO/9964139 (A1)

Bibliographic data

Description

Claims

Mosaics

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INPADOC patent family

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Method For Reducing Nitrous Oxide in Gases and Corresponding Catalysts

Page bookmark WO/9964139 (A1) - METHOD FOR REDUCING NITROUS OXIDE IN GASES AND CORRESPONDING CATALYSTS

Inventor(s): NEVEU BERNARD [FR]; HAMON CHRISTIAN [FR] ±

Applicant(s): GRANDE PAROISSE SA [FR]; IRMA [FR]; NEVEU GENEVIEVE LF [FR]; HAMON CHRISTIAN [FR] ±

Classification: - International: B01D53/86; B01J21/06; C01B21/02; C01B21/24; (IPC-7): B01D53/86; B01J21/04; B01J21/06 - cooperative: B01D53/8628; B01J21/066; C01B21/02; C01B21/24; C01B21/265; Y02G20/10; Y02P20/153

Application number: WO1999FR01271 19990531

Priority number(s): FR19980007101 19980505

Also published as: FR2779360 (A1) → FR2779360 (B1) → EP1017478 (A1) → PL338216 (A1) → HRP20000063 (A2) → more

Abstract of WO/9964139 (A1)

Translate this text into [1] Spanish patenttranslate powered by EPO and Google

The invention concerns a method which consists in selectively destroying nitrous oxide at high temperature on catalysts consisting of refractory oxide agglomerates (alumina or zirconium) having intergranular porosity impregnated with a zirconium salt. The method is useful for treating gases in workshops producing nitric acid. The invention is also useful, using specific initiators, for treating gases rich in N₂O produced in nitric oxidation of organic compounds.

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United States Patent Appl: X

appf1.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PG01&p=1&u=/netahtml/PTO/srchnum.html&r=1&f=G&l=50&s1=20080241034.PGNR.

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United States Patent Application

Kind Code

Schwefel; Meinhard ; et al.

20080241034

A1

October 2, 2008

Method For Reducing the Nitrogen Oxide Concentration in Gases

Abstract

The method comprises passing an N₂O_x and NO_x-containing gas over a sequence of two catalyst beds, adding reducing agents for NO_x and for N₂O between the catalyst beds in such an amount that not only NO_x but also a predetermined proportion of N₂O is reduced. The reaction conditions are set so that the N₂O content of the gas is reduced by not more than 95%, based on the N₂O content at the entrance of the first catalyst bed, by decomposition to nitrogen and oxygen in the first catalyst bed and that not only chemical reduction of NO_x but also chemical reduction of N₂O occurs in the second catalyst bed so that the N₂O content of the gas is reduced by at least 50%, based on the N₂O content at the entrance of the second catalyst bed.

Inventors: Schwefel; Meinhard; (Maschade, DE); Siefert; Rolf; (Rheda-Wiedenbrunn, DE); Groves; Michael; (Gevelsberg, DE)

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Assignee: Ude GmbH
Dortmund
DE

Family ID: 36705122

Appl. No.: 11/913450

Filed: April 27, 2006

PCT Filed: April 27, 2006

Patent US3733181 - Catalytic exhaust gas treatment apparatus

US 3733181 A

ABSTRACT available in

IMAGES (5)

Publication number US3733181 A
Publication type Grant
Publication date May 15, 1973
Filing date May 14, 1971
Priority date May 14, 1971
Also published as DE2306471A1
Inventors J Tourtelotte, Fisher J Villiers
Original Assignee Chemical Construction Corp
Export Citation BiTeX, EndNote, RefMan
Referenced by (43), Classifications (47)
External Links: USPTO, USPTO Assignment, Espacenet

DESCRIPTION (OCR text may contain errors)

CLAIMS available in

y "1973 J. F. TOURTELLOTTE ET AL 3.

CATALYTIC EXHAUST GAS TREATMENT APPARATUS 5 Sheets-Sheet 1 Filed May 14, 1971 Q Q DUWN DODOO \$0 0

QO D O 0 wo o u tw OB D00 JOHN F TOURTELLO-TTE JOHN F. VILLIERS-FISHER I N VENTORS AGENT May 15,

1973 J. F. TOURTELLOTTE AL CATALYTIC EXHAUST GAS TREATMENT APPARATUS 5 Sheets-Sheet 2 Filed May

14, 1971 F I G 2

JOHN E TOURTELLOTTE JOHN E VILLIERS-FISHER INVENTORS.

BY T

A G E N T May 15, 1973 J F, TOURTE'LOTTE ETAL 3,733,181

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Bibliographic data: WO03105998 (A1) — 2003-12-24

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METHOD AND DEVICE FOR REDUCING THE NOX AND N2O OF GASES

Page bookmark WO03105998 (A1) - METHOD AND DEVICE FOR REDUCING THE NOX AND N2O OF GASES

Inventor(s): SCHWEFER MEINHARD (DE); GROVES MICHAEL (DE); SIEFERT ROLF (DE); MAURER RAINER (DE) ±

Applicant(s): UHDE GMBH (DE); SCHWEFER MEINHARD (DE); GROVES MICHAEL (DE); SIEFERT ROLF (DE); MAURER RAINER (DE) ±

Classification: - International: B01D53/86; B01J19/30; B01J29/06; B01J29/08; B01J29/18; B01J29/46; B01J29/65; B01J29/70; B01J8/00; B01J8/02; B01J8/04; B01J26/14; B01J29/24; B01J29/66; B01J29/76; (IPC-7): B01D53/86; B01J19/30; B01J29/06; B01J29/08; B01J29/18; B01J29/46; B01J29/65; B01J29/70; B01J8/00; B01J8/02; B01J8/04; B01J26/14; B01J29/24; B01J29/66; B01J29/76; - cooperative: B01D53/862; B01J29/08; B01J29/18; B01J29/46; B01J29/65; B01J29/70; B01J8/00; B01J8/02; B01J8/04; B01J26/14; B01J29/24; B01J29/66; B01J29/76; B01D22/27; B01D22/27/40; B01D22/27/404; B01J29/08; B01J29/18; B01J29/46; B01J29/65; B01J29/70; B01J8/00; B01J8/02; B01J8/04; B01J26/14; B01J29/24; B01J29/66; B01J29/76; Y02C20/19

Application number: WO2003EP005120030610

Priority number(s): DE2002128461 20020613

Also published as: DE10226481 (A1); EP1515791 (A1); EP1515791 (B1); ES2369078 (T3); ES2391380 (T3); + more

Abstract of WO03105998 (A1)

Translate this text into [1]
Spanish [patenttranslate] powered by EPO and Google

The method comprises the following steps: conduction of the gas containing N2O and NOx over a series of two catalyst beds consisting of one or more zeolites charged with iron; addition of a reduction agent for NOx between the catalyst beds; setting of a temperature of less than 500 DEG C in the first and second

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EP1022056 (A1)

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Installation for treatment of fluids comprising multiple beds of particles supported by a separation grid

Page bookmark EP1022056 (A1) - Installation for treatment of fluids comprising multiple beds of particles supported by a separation grid

Inventor(s): MONEREAU CHRISTIAN (FR); BELOT JEAN-MARC (FR); LABASQUE JACQUES (FR) ±

Applicant(s): AIR LIQUIDE (FR) ±

Classification: - international: B01D53/04; B01D53/07; B01D53/86; B01D53/88; B01J8/00; B01J8/04; C10K1/20; C10K1/24; C10K3/04; C10K3/04; IPC1-7; B01D53/04; B01D53/86; B01D53/88; B01J8/00; B01J8/04; C10K1/20; C10K1/24; C10K3/04; F25J3/00; F25J3/08

- cooperative: B01D53/0431; B01D53/86; B01D53/88; B01J8/008; B01J8/0085; B01J8/0411; B01J8/0415; C10K1/205; C10K1/24; C10K3/04; B01D2253/108; B01D2253/004; B01D2254/148; B01D53/00; B01D53/047; B01D53/0476; B01J2239/00384

Application number: EP20000400003 20000103

Priority number(s): FR19990000678 19990120

Also published as: FR2788450 (A1) → FR2788450 (B1)

Abstract of EP1022056 (A1)

Translate this text into [1]

Spanish [2] patenttranslate powered by EPO and Google

The installation is an improved version of the classical form and is used in pressure swing adsorption techniques, in particular vacuum pressure swing adsorption (VPSA), for the separation of gases. The installation comprises a treatment vessel (R) containing a primary bed (L1) with particles (P1) of size g1. A secondary bed (L2) with particles (P2) of size g2. The beds are adjacent.

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United States Patent Application
Kind Code
Schwefel, Meinhard ; et al.
Denitrification method

20050244320
A1
November 3, 2005

Abstract

A process for reducing the content of NO_x and N₂O in gases, in particular in process gases and offgases, which comprises the measures: a) addition of at least one nitrogen-containing reducing agent to the NO_x and N₂O-containing gas in at least the amount required for complete reduction of the NO_x; b) addition of a hydrocarbon, of carbon monoxide, of hydrogen or of a mixture of one or more of these gases to the NO_x and N₂O-containing gas for the reduction of the N₂O and c) introduction of the gas mixture into at least one reaction zone at temperatures of up to 450 degree C. which contains one or more iron-laden zeolites, is described. The process can be used, in particular, in nitric acid production, for offgases from power stations or for gas turbines.

Inventors: Schwefel, Meinhard (Machado, DE); Groves, Michael (Gevelsberg, DE)

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Family ID: 28684851
Appl. No.: 10/510490
Filed: April 25, 2005

