

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 November 2005 (10.11.2005)

PCT

(10) International Publication Number
WO 2005/105306 A3

- (51) International Patent Classification⁷: **B01J 23/26**, A62D 3/00
- (21) International Application Number: PCT/EP2005/004403
- (22) International Filing Date: 21 April 2005 (21.04.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
04101864.9 30 April 2004 (30.04.2004) EP
60/569,143 7 May 2004 (07.05.2004) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— of inventorship (Rule 4.17(iv)) for US only
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
5 January 2006
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE REDUCTION AND SAFE DISPOSAL OF AN ACTIVATED CHROMIUM OXIDE CATALYST

(57) Abstract: Process for the reduction and safe disposal of a hexavalent chromium oxide based catalyst comprising contacting, under mixing conditions, a hexavalent chromium oxide based catalyst, with a molar excess, in respect of the chromium species, of a solid reducing agent and subjecting the mixture to a temperature in the range 30-1000C°. The process in simple, involves low costs and allows to obtain a permanently reduced chromium catalyst that can be disposed without toxicity risks. The disclosed reducing agents are FeS, FeSO4, Cu (O), carbon, hydroquinone and carbohydrates, preferably sucrose.



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INTERNATIONAL SEARCH REPORT

International Application No
 /EP2005/004403

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J23/26 A62D3/00</p>		
<p>According to International Patent Classification (IPC) or to both national classification and IPC</p>		
<p>B. FIELDS SEARCHED</p>		
<p>Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J A62D</p>		
<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p>		
<p>Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, COMPENDEX, WPI Data, PAJ</p>		
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p>		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 245 121 A (GALL ET AL) 14 September 1993 (1993-09-14) claims 1-3,6,7,10-12,15,16 examples III,IV	1-3,5,6, 9
X	PATENT ABSTRACTS OF JAPAN vol. 001, no. 157 (C-032), 14 December 1977 (1977-12-14) & JP 52 097369 A (BABCOCK HITACHI KK), 16 August 1977 (1977-08-16) abstract -/--	1-3,5,6, 9
<p><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.</p>		
<p>° Special categories of cited documents :</p>		
<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*&* document member of the same patent family</p>	
<p>Date of the actual completion of the international search 13 October 2005</p>		<p>Date of mailing of the international search report 15/11/2005</p>
<p>Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016</p>		<p>Authorized officer Goebel, M</p>

INTERNATIONAL SEARCH REPORT

International Application No

T/EP2005/004403

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	----- US 6 416 251 B1 (NAYAK BANSIDHAR ET AL) 9 July 2002 (2002-07-09) paragraph '0026! paragraphs '0029!, '0030! claims; examples	1-3,5,6
X	----- US 2002/049361 A1 (CHOWDHURY AJIT K) 25 April 2002 (2002-04-25) examples	1-3
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Information on patent family members

International Application No

PCT/EP2005/004403

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