

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 December 2010 (09.12.2010)

(10) International Publication Number
WO 2010/141949 A3

(51) International Patent Classification:

A61K 31/765 (2006.01) A61P 7/08 (2006.01)
A61K 31/17 (2006.01)

(21) International Application Number:

PCT/US2010/037637

(22) International Filing Date:

7 June 2010 (07.06.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/479,513 5 June 2009 (05.06.2009) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

21 April 2011

(54) Title: UREA SORBENT

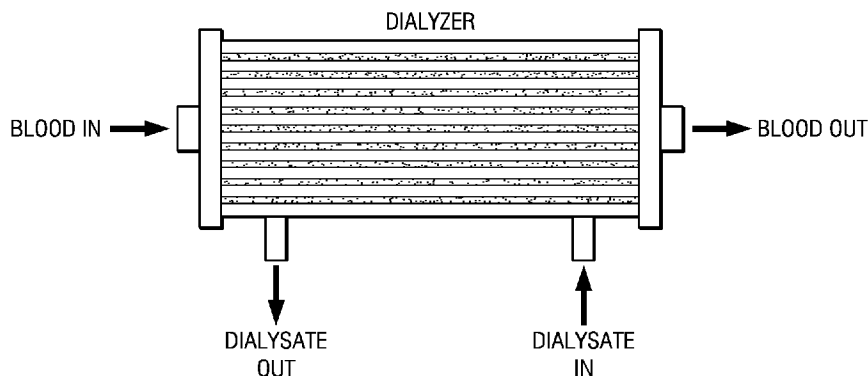


FIG. 1
(PRIOR ART)

(57) Abstract: A sorbent polymer is provided that interacts or reacts with aqueous urea to aid the regeneration of a dialysate liquid. The sorbent polymer may include one or more specific functional groups bonded thereto. Such specific functional groups are selected from carboxylic acids, carboxylic acid esters, carboxylates, amides, dicarboxylic acids, dicarboxylic acid esters, and dicerboxylates to produce the desired urea sorbent.



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A. CLASSIFICATION OF SUBJECT MATTER*A61K 31/765(2006.01)i, A61K 31/17(2006.01)i, A61P 7/08(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K 31/765; A61K 31/60; A61K 31/715; A61K 9/50; A61K 31/785

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: polymer, urea, sorbent-based dialysis, oxalate, pyruvate, benzoate, acrylic acid

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02-40039 A2 (THE DOW CHEMICAL COMPANY) 23 May 2002 See abstract, claims 1-16	1-35
A	US 2005-0036983 A1 (SIMON, JAIME et al.) 17 February 2005 See abstract, claims 1-6	1-35
A	US 2005-0233003 A1 (GOLDSHTEIN, RINA et al.) 20 October 2005 See claims 1-10	1-35
A	US 2008-0292579 A1 (BROOKS, DONALD E. et al.) 27 November 2008 See claims 1, 2	1-35

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search

24 FEBRUARY 2011 (24.02.2011)

Date of mailing of the international search report

25 FEBRUARY 2011 (25.02.2011)

Name and mailing address of the ISA/KR


 Korean Intellectual Property Office
 Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu,
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Facsimile No. 82-42-472-7140

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Telephone No. 82-42-481-8147



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/037637

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