(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 March 2013 (21.03.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/037995 A1

(51) International Patent Classification:
B01J 20/32 (2006.01) *A61K 31/704* (2006.01)
B01J 20/288 (2006.01) *A61K 31/715* (2006.01)
A61K 31/133 (2006.01) *A61K 31/74* (2006.01)

(21) International Application Number:
PCT/EP2012/068199

(22) International Filing Date:
17 September 2012 (17.09.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11181411.7 15 September 2011 (15.09.2011) EP

(71) Applicant *(for all designated States except US)*: **INSTRACTION GMBH** [DE/DE]; Janderstr. 3, 68199 Mannheim (DE).

(72) Inventors; and
(71) Applicants *(for US only)*: **ARENDT, Markus** [DE/DE]; Gerhart-Hauptmann-Str. 4, 68766 Hockenheim (DE). **DEGEL, Björn** [DE/DE]; Lönsstr. 3, 67454 Haßloch (DE). **SCHWARZ, Thomas** [DE/DE]; Metzholz 23, 42799 Leichlingen (DE). **STUMM, Gerhard** [DE/DE]; Pahlblöckenstieg 15, 22143 Hamburg (DE). **WELTER, Martin** [DE/DE]; Sitzbuchweg 91, 69118 Heidelberg (DE).

(74) Agent: **STOLMÁR SCHEELE & PARTNER**; Blumenstr. 17, 80331 München (DE).

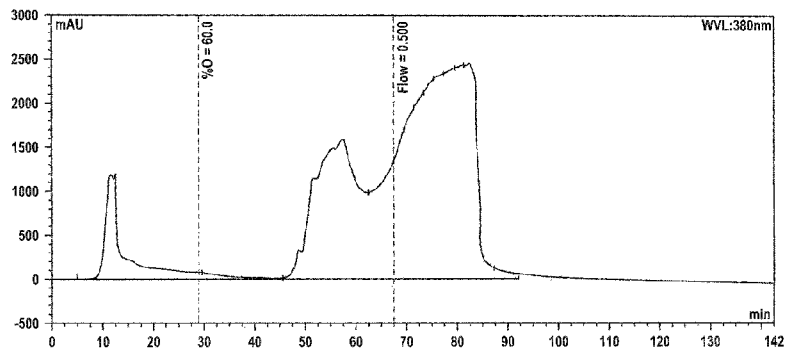
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report (Art. 21(3))*

(54) Title: SORBENT COMPRISING ON ITS SURFACE AN ALIPHATIC UNIT HAVING AN ANIONIC OR DEPROTONIZABLE GROUP FOR THE PURIFICATION OF ORGANIC MOLECULES

Fig. 1



(57) Abstract: The present invention relates to a sorbent comprising a solid support material, the surface of which comprises a residue of a general formula (I), wherein the residue is attached via a covalent single bond to a functional group on the surface of either the bulk solid support material itself or of a polymer film on the surface of the solid support material. Furthermore, the present invention relates to the use of the sorbent according to the invention for the purification of organic molecules, in particular pharmaceutically active compounds, preferably in chromatographic applications.

WO 2013/037995 A1