



(51) International Patent Classification:

C08J 5/20 (2006.01) *C07C 51/47* (2006.01)
B01J 39/04 (2006.01) *C07C 51/573* (2006.01)

(21) International Application Number:

PCT/US2011/067564

(22) International Filing Date:

28 December 2011 (28.12.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/428,464 30 December 2010 (30.12.2010) US
13/338,612 28 December 2011 (28.12.2011) US

(71) Applicant (for all designated States except US):

CELANESE INTERNATIONAL CORPORATION
[US/US]; 1601 W. Lbj Freeway, Dallas, TX 75234 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHAYER, Ronald,**

D. [US/US]; 906 Bridge Hollow Court, Houston, TX 77062 (US). **BLANCHARD, Greg** [US/US]; Hauptstrasse 55, Pasadena, TX (US). **HOKKANEN, Brian, W.** [US/DE]; Hauptstrasse 55, 65760 Eschborn (DE). **TORRENCE, G., Paull** [US/US]; 4206 Masters Drive, League City, TX 77573 (US).

(74) Agent: **GENDZWILL, Jeffrey, T.;** Roberts Mlotkowski

Safran & Cole, 7918 Jones Branch Drive, Suite 500, Mclean, VA 22102 (US).

(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, 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, 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, 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: PURIFICATION OF ACETIC ACID PRODUCT STREAMS

(57) Abstract: In one embodiment, the invention is to an ion exchange resin composition comprising a metal-functionalized exchange resin comprising from 3 % to 94 % metal-functionalized active sites; and a non-metal-functionalized exchange resin comprising non-metal-functionalized active sites.



WO 2012/092360 A1