

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 August 2007 (09.08.2007)

PCT

(10) International Publication Number
WO 2007/090158 A3

(51) International Patent Classification:
C07C 45/78 (2006.01) *C07C 29/141* (2006.01)
C07C 47/19 (2006.01)

(74) Agent: TAYLOR, Richard B.; SHELL OIL COMPANY,
One Shell Plaza, P.O. Box 2463, Houston, Texas 77252-
2463 (US).

(21) International Application Number:
PCT/US2007/061384

(22) International Filing Date: 31 January 2007 (31.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/763,985 1 February 2006 (01.02.2006) US
60/820,900 31 July 2006 (31.07.2006) US

(71) Applicant (for SM only): SHELL OIL COMPANY
[US/US]; One Shell Plaza, P.O. Box 2463, Houston, Texas
77252-2463 (US).

(71) Applicants (for all designated States except US): SHELL
INTERNATIONALE RESEARCH MAATSCHAPPIJ
B.V. [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The
Hague (NL). KOMPLIN, Glenn Charles [US/US]; 22402
Sam Creek Ct., Katy, Texas 77494 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): POWELL, Joseph
Broun [US/US]; 10506 Normont Drive, Houston, Texas
77070 (US). WEIDER, Paul, Richard [US/US]; 15014
Tramore Drive, Houston, Texas 77083 (US).

(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, GT, HN, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS,
LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY,
MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,
RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, 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, LV, 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).

Published:

— with international search report

(88) Date of publication of the international search report:
22 November 2007

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A METHOD OF TREATING AN ALDEHYDE MIXTURE, USE OF THE TREATED ALDEHYDE, AND AN AL-
COHOL

(57) Abstract: A method of treating an aldehyde mixture comprising a carboxylic acid and a metal cation, which method comprises:
contacting the aldehyde mixture with a basic separating medium, and subsequently or simultaneously contacting with an acidic
separating medium; use of the treated aldehyde mixture to prepare an alcohol; and the alcohol.



WO 2007/090158 A3