

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/103945 A1

(51) International Patent Classification⁷: **C07C 51/487**,
63/26

(21) International Application Number:
PCT/US2004/012076

(22) International Filing Date: 19 April 2004 (19.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/423,389 25 April 2003 (25.04.2003) US

(71) Applicant: **EASTMAN CHEMICAL COMPANY**
[US/US]; 100 N. Eastman Road, Kingsport, TN 37660
(US).

(72) Inventors: **LIN, Robert**; 4533 Palomino Drive,
Kingsport, TN 37664 (US). **DE VREEDE, Marcel**;
4801 Preston Park Drive, Kingsport, TN 37664 (US).
SLUIJMERS, Johannes, Wilhelmus; Van der Vlugt-
veld 1, NL-Barendrecht, 2992 HK (NL). **DE BOER, Mar-
tin**; Oude Singel 154, NL-Schoonhoven, 2871 SJ (NL).
WOODRUFF, Thomas, Earl; 216 Woodstock Place,
Kingsport, TN 37663 (US).

(74) Agent: **OWEN, Steven, A.**; P.O. Box 511, Kingsport, TN
37662-5075 (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, HR, HU, ID, IL, IN, IS, JP, KE,
KG, 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, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, 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, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, 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).

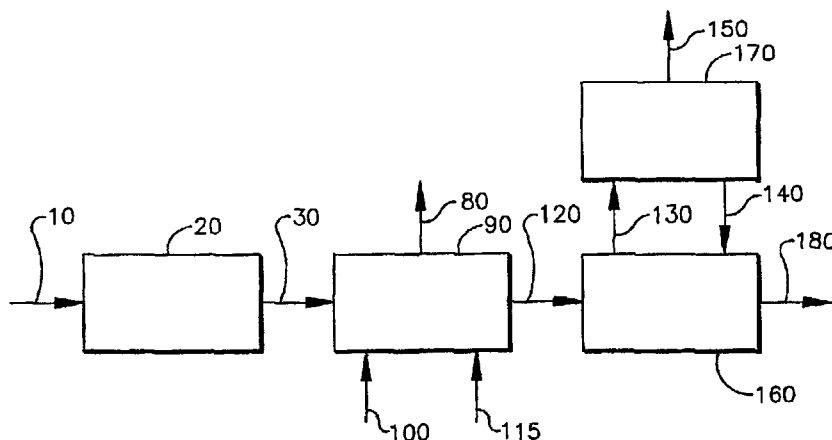
Published:
— with international search report

(48) Date of publication of this corrected version:
12 May 2005

(15) Information about Corrections:
see PCT Gazette No. 19/2005 of 12 May 2005, Section II

[Continued on next page]

(54) Title: A PURIFICATION PROCESS OF CRUDE TEREPHTHALIC ACID IN A POST OXIDATION ZONE BY THE AD-
DITION OF STEAM



(57) Abstract: The present invention relates to a process for heating a secondary oxidizer with steam. More specifically, the present invention relates to a process for heating a secondary oxidizer with steam in a process for the production of a crystallized product. A process to produce a crystallized product comprises the following steps (a) oxidizing in an primary oxidation zone an aromatic feedstock to produce a crude carboxylic acid slurry; (b) oxidizing said crude carboxylic acid slurry in a post oxidation zone in the presence of steam to form a post oxidation product; (c) purifying said post oxidation product to a decolorized post oxidation product; and (d) crystallizing in a crystallization zone said post oxidation product to form a crystallized product.

WO 2004/103945 A1

**Previous Corrections:**

see PCT Gazette No. 13/2005 of 31 March 2005, Section II
see PCT Gazette No. 03/2005 of 20 January 2005, Section II

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.