

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

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
29 November 2001 (29.11.2001)

PCT

(10) International Publication Number
WO 01/90042 A1(51) International Patent Classification⁷: C07C 67/055,
69/15, 51/215, 53/08

(21) International Application Number: PCT/EP00/04543

(22) International Filing Date: 19 May 2000 (19.05.2000)

(25) Filing Language: English

(26) Publication Language: English

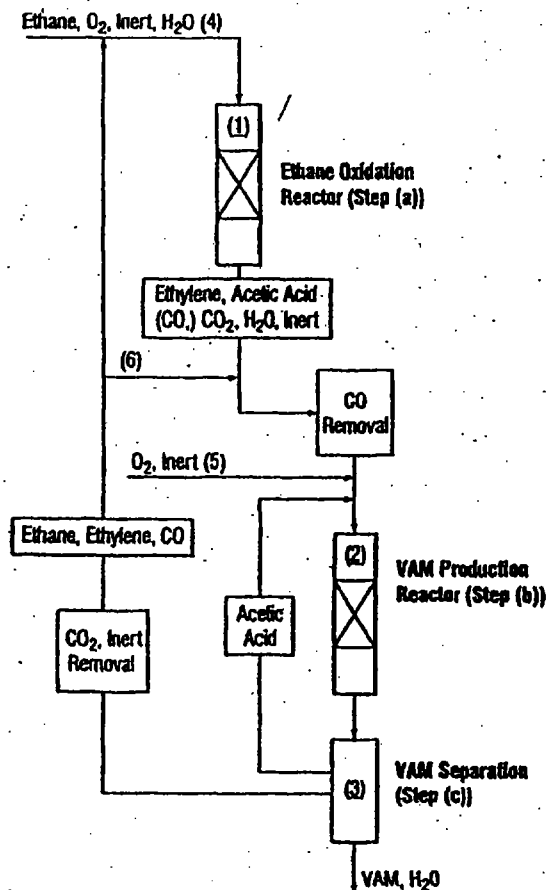
(71) Applicant (for all designated States except US): AVENTIS
RESEARCH & TECHNOLOGIES GMBH & CO KG
[DE/DE]; 65926 Frankfurt am Main (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ZEYSS, Sabine
[DE/DE]; Wiesbadener Strasse 3 B, 61462 Königstein(DE). DINGERDISSEN, Uwe [DE/DE]; Linnéweg
1, 64342 Seeheim-Jugenheim (DE). FRITCH, John
[US/US]; 4334 Five Points Rd., Corpus Christi, TX 78410
(US).(74) Agent: ACKERMANN, Joachim; Postfach 11 33 26,
60048 Frankfurt am Main (DE).(81) Designated States (national): AE, AG, AL, AM, AU, AZ,
BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, DZ, EE,
GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC,
LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO,
NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
US, UZ, VN, YU, ZA.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,

[Continued on next page]

(54) Title: INTEGRATED PROCESS FOR THE PRODUCTION OF VINYL ACETATE



(57) Abstract: The invention describes an integrated process for the production of vinyl acetate which comprises the steps of: (a) contacting in a first reaction zone a gaseous feedstock comprising essentially ethane with a molecular oxygen-containing gas in the presence of a catalyst to produce a first product stream comprising acetic acid and ethylene; (b) contacting in a second reaction zone the first gaseous product stream with a molecular oxygen-containing gas in the presence of a catalyst to produce a second product stream comprising vinyl acetate; (c) separating the product stream from step (b) and recovering vinyl acetate from the product stream from step (b).



162162



G00002

WO 01/90042 A1