20000586-2

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :
B01J 23/52, C07C 67/055

A1

(11) International Publication Number: WO 99/62632

(43) International Publication Date: 9 December 1999 (09.12.99)

(21) International Application Number: PCT/US99/10992

(22) International Filing Date: 19 May 1999 (19.05.99)

(30) Priority Data:
09/088,978 2 June 1998 (02.06.98) US

(71) Applicant: CELANESE INTERNATIONAL CORPORATION [US/US]; 1601 West LBJ Freeway, Dallas, TX 75234 (US).

(72) Inventors: WANG, Tao; 7638 Odessa Drive, Corpus Christi, TX 78413 (US). BROUSSARD, Jerry, A.; 7505 Venice Drive, Corpus Christi, TX 78413 (US).

(74) Agents: SPIERING, M., Susan et al.; Celanese Ltd., 1901 Clarkwood Road, Corpus Christi, TX 78409 (US).

(81) Designated States: AU, BR, CA, CN, CZ, HU, ID, IN, JP, KR, MX, NO, NZ, PL, RU, SG, SK, TR, TT, UA, VN, ZA, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

(54) Title: VINYL ACETATE CATALYST COMPRISING METALLIC PALLADIUM AND GOLD PREPARED WITH POTASSIUM AURATE

(57) Abstract

A catalyst for the production of vinyl acetate by reaction of ethylene, oxygen and acetic acid comprising a porous support on the porous surfaces of which is deposited catalytically effective amounts of metallic palladium and gold, said catalyst having been prepared by steps comprising impregnating a porous support, the porous surfaces of which contain a catalytically effective amount of a prereduced metallic palladium, with a solution of potassium aurate, and reducing the potassium aurate to a catalytically effective amount of metallic gold. Alternate embodiments are also disclosed.