

PCT WORLD ORGANISATION FOR INTELLECTUAL PROPERTY
International Office
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International patent classification ⁶ : C07C 27/12, 29/50, 45/33	A1	(11) International publication number: WO 98/17612 (43) International publication date: 30 April 1998 (30.04.98)
(21) International application number: PCT/EP97/05740 (22) International filing date: 17 October 1997 (17.10.97) (30) Data relating to the priority: 196 43 154.9 18 October 1996 (18.10.96) DE (71) Applicant (for all designated States except US): BASF AKTIENGESELLSCHAFT [DE/DE]: D-67056 Ludwigshafen (DE). (72) Inventors: and (75) Inventors/Applicants (US only): Alwin REHFINGER [DE/DE]: Rosenstrasse 10, D-67112 Mutterstadt (DE). Martin GANN [DE/DE]: An der Quelle 6, D-67251 Freinsheim (DE). Robert MÄRKL [DE/US]: 45 Meadowbrook Road, Randolph, NJ 07869 (US). Rüdiger SCHMITT [DE/DE]: Hermann-Mündler-Strasse 9, D-67227 Frankenthal (DE). 74) Attorney: REITSTÖTTER, KINZEBACH & PARTNER: P.O.Box 860649, D-81633 Munich (DE).		(81) Designated States: AL, AM, AU, AZ, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KG, KR, KZ, LT, LV, MD, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, UA, US, UZ, Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With the International Search Report. Before expiry of the period provided for amending the claims. Further publication will be made if such amendments are received.

As printed

(54) Title: PROCESS FOR PREPARING OXIDATION PRODUCTS FROM CYCLOHEXANE IN COUNTERFLOW

(54) Bezeichnung: VERFAHREN ZUR HERSTELLUNG VON OXIDATIONSPRODUKTEN DES CYCLOHEXANS IM GEGENSTROM

(57) Abstract

The invention concerns a process for preparing oxidation products from cyclohexane by catalytic oxidation with oxygenous gases in the liquid phase. In a reaction zone the gases are brought substantially uniformly into contact with the oxygenous gases, and liquid cyclohexane and the oxygenous gases are passed in counterflow through the reaction zone.

(57) Zusammenfassung

Die Erfindung betrifft ein Verfahren zur Herstellung von Oxidationsprodukten des Cyclohexans durch katalytische Oxidation mit sauerstoffhaltigen Gasen in flüssiger Phase, wobei man die Gase in einer Reaktionszone im wesentlichen gleichmäßig mit den sauerstoffhaltigen Gasen in Kontakt bringt und flüssiges Cyclohexan und die sauerstoffhaltigen Gase im Gegenstrom durch die Reaktionszone leitet.