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(21) International application number: PCT/FR97/00940 (22) International filing date: 29 May 1997 (29.05.97) (30) Data relating to the priority: 96/07.380 7 June 1996 (07.06.96) FR (71) Applicant (for all designated States except US): RHONE-POULENC FIBER AND RESIN INTERMEDIATES [FR/FR]: 25, quai Paul Doumer, F-92408 Courbevoie Cedex (FR). (72) Inventors; and (75) Inventors/Applicants (US only): Jacques BRIVET [FR/FR]: 20, avenue Pierre Allard, F-69500 Bron (FR). Eric B. HENRIET [FR/FR]: 89, rue du Pensionnat, F-69003 Lyon (FR). Carl PATOIS [FR/FR]: 2, avenue Jules Jusserand, F-69003 Lyon (FR). Robert PERRON [FR/FR]: La Pecolière, F-69390 Charly (FR). (74) Representative: Noël VIGNALLY; Rhône-Poulenc Chimie, Industrial Property Directorate, C.R.I.T. - Carrières, P.O. Box 62, F-69192 Saint-Fons Cedex (FR).		(81) Designated States: BR, BY, CA, CN, CZ, JP, KR, MX, PL, RO, RU, SG, SK, UA, US, VN, 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.
As printed (54) Title: PENTENOIC ACID HYDROXYCARBONYLATION METHOD (54) Titre: PROCEDE D'HYDROXYCARBONYLATION DES ACIDES PENTENOIQUES (57) Abstract The invention discloses pentenoic acid hydroxycarbonylation into adipic acid. More particularly it concerns one pentenoic acid hydroxycarbonylation method involving reaction water and carbon monoxide, in presence of a catalyst comprising at least rhodium and/or iridium and an iodinated or brominated catalytic promoter. In the method, the catalyst is derived at least in part from a previous pentenoic acid hydroxycarbonylation operation. The reaction is effected in the presence of an amount of branched carboxylic diacids having 6 carbon atoms not exceeding 200 grams per kilogram of reaction mixture. (57) Abrégé La présente invention concerne l'hydroxycarbonylation des acides penténoïques en acide adipique. Elle concerne plus particulièrement un procédé d'hydroxycarbonylation d'acide penténoïque par réaction avec l'eau et le monoxyde de carbone, en présence d'un catalyseur comportant au moins du rhodium et/ou de l'iridium et d'un promoteur iodé ou bromé, procédé dans lequel le catalyseur provient au moins en partie d'une opération antérieure d'hydroxycarbonylation d'acide penténoïque, caractérisé en ce que la réaction est effectuée en présence d'une quantité de diacides carboxyliques ramifiés ayant 6 atomes de carbone inférieure ou égale à 200 grammes par kilogramme de mélange réactionnel.		

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