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(21) International Application Number: PCT/EP97/06401 (22) International Filing Date: 14 November 1997 (14.11.97) (30) Priority Data: <table border="0"> <tr> <td>1004623</td> <td>27 November 1996 (27.11.96)</td> <td>NL</td> </tr> <tr> <td>60/031,542</td> <td>2 December 1996 (02.12.96)</td> <td>US</td> </tr> <tr> <td>97202951.6</td> <td>25 September 1997 (25.09.97)</td> <td>EP</td> </tr> </table> (34) Countries for which the regional or international application was filed: NL et al. (71) Applicant: AKZO NOBEL N.V. [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL). (72) Inventors: VAN BROEKHOVEN, Emanuel, Hermanus; Trintel 131, NL-1141 DN Monnickendam (NL). MAS CABRÉ, Francisco, René; Max Havelaarlaan 30, NL-1183 NE Amstelveen (NL). BOGAARD, Pieter; Hageweer 25 c, NL-1151 EP Broek in Waterland (NL). KLAVER, Gijsbertus; Lepelblad 6, NL-1452 VN Ipendam (NL). VONHOF, Marco; Koggenlaan 195, NL-1447 CG Purmerend (NL). (74) Agent: SCHALKWIJK, Pieter, Cornelis; Akzo Nobel N.V., Patent Dept. (Dept. APTA), P.O. Box 9300, NL-6800 SB Arnhem (NL).		1004623	27 November 1996 (27.11.96)	NL	60/031,542	2 December 1996 (02.12.96)	US	97202951.6	25 September 1997 (25.09.97)	EP	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
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(54) Title: PROCESS FOR ALKYLATING HYDROCARBONS											
(57) Abstract The invention pertains to a process for alkylating hydrocarbons in which an alkylatable organic compound is reacted with an alkylation agent to form an alkylate in the presence of a catalyst comprising a hydrogenating function and a solid acid constituent, with the catalyst being subjected intermittently to a regeneration step by being contacted with a feed containing a saturated hydrocarbon and hydrogen, said regeneration being carried out at 90 % or less of the active cycle of the catalyst, with the active cycle of the catalyst being defined as the time from the start of the feeding of the alkylation agent to the moment when 20 % of the alkylation agent leaves the catalyst-containing reactor section without being converted, not counting isomerisation inside the molecule. The process according to the invention is especially attractive for the alkylation of isobutane with one or more butenes to form an alkylate with a high RON.											