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(21) International Application Number: PCT/NL99/00245 (22) International Filing Date: 26 April 1999 (26.04.99) (30) Priority Data: 1009014 28 April 1998 (28.04.98) NL (71) Applicant (for all designated States except US): DSM N.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): BOSMAN, Hubertus, Johannes, Mechtilda [NL/NL]; Wielewaalstraat 13, NL-6135 EN Sittard (NL). GROOTENDORST, Edwin, Jacco [NL/NL]; Ankersweg 57, NL-6123 AJ Born (NL). POSTMA, Leonardus, Hubertus [NL/NL]; St. Pieterstraat 101A, NL-6463 CX Kerkrade (NL). SMEETS, Theodorus, Maria [NL/NL]; Burg. Bussenstraat 6, NL-6181 BP Stein (NL). (74) Agent: SCHELTUS, Irma; Octrooibureau DSM, P.O. Box 9, NL-6160 MA Geleen (NL).	(81) Designated States: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, 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, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	
(54) Title: PROCESS FOR THE HYDROGENATION OF PHENYL ACETYLENE IN A STYRENE-CONTAINING MEDIUM WITH THE AID OF A CATALYST (57) Abstract The invention relates to a process for the hydrogenation of phenyl acetylene in a styrene-containing medium with the aid of a supported nickel catalyst with a nickel content of 10-25 wt.%. This process is by preference used for the hydrogenation of phenyl acetylene in a styrene-containing medium which contains more than 30 wt.% of styrene.		