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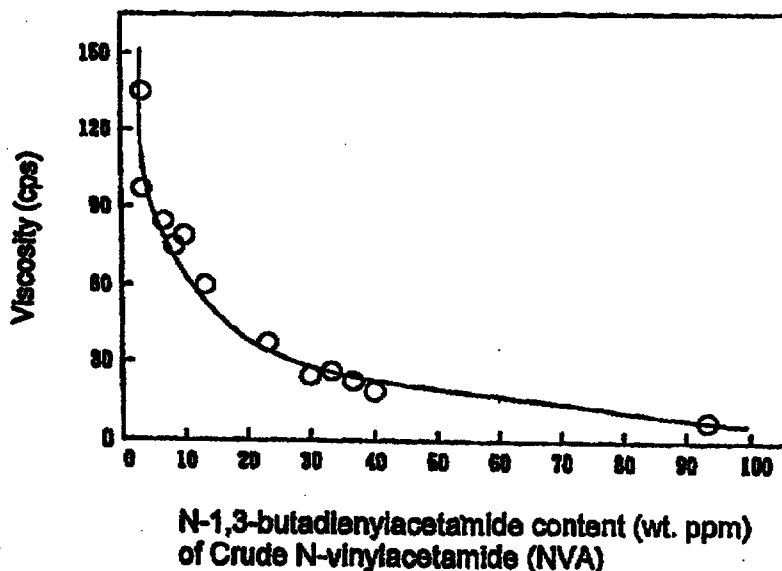


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(21) International Application Number: PCT/JP95/02757 (22) International Filing Date: 28 December 1995 (28.12.95) (71) Applicant: SHOWA DENKO K.K. [JP/JP]; 13-9, Shibadaimon 1-chome, Minato-ku, Tokyo 105 (JP). (72) Inventors: AIZAWA, Toshiyuki; Oita Plant, Showa Denko K.K., 2, Oaza Nakanosu, Oita-shi, Oita 870-01 (JP). NAKAMURA, Hitoshi; Oita Plant, Showa Denko K.K., 2, Oaza Nakanosu, Oita-shi, Oita 870-01 (JP). WAKABAYASHI, Kunitoshi; Oita Plant, Showa Denko K.K., 2, Oaza Nakanosu, Oita-shi, Oita 870-01 (JP). KUDO, Tetsuo; Oita Plant, Showa Denko K.K., 2, Oaza Nakanosu, Oita-shi, Oita 870-01 (JP). SHIMAMURA, Kenji; Oita Plant, Showa Denko K.K., 2, Oaza Nakanosu, Oita-shi, Oita 870-01 (JP). NAGAMATSU, Shun-ichi; Oita Plant, Showa Denko K.K., 2, Oaza Nakanosu, Oita-shi, Oita 870-01 (JP). (74) Agents: SHIGA, Masatake et al.; OR Building, 23-3, Takadanobaba 3-chome, Shinjuku-ku, Tokyo 169 (JP).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, KE, KG, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, 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 With international search report.

(54) Title: **HIGHLY POLYMERIZABLE N-VINYLCARBOXYLIC ACID AMIDE AND PRODUCTION PROCESS THEREOF**

(57) Abstract

A highly polymerizable N-vinylcarboxylic acid amide having an N-1,3-butadienylcarboxylic acid amide content of 30 ppm or less, a process for producing the same, and a process for producing a homopolymer of N-vinylcarboxylic acid amide or a copolymer thereof with another copolymerizable monomer using the same. Also, a highly polymerizable N-vinylcarboxylic acid amide is produced by thermal cracking or catalytic cracking of N-(1-alkoxyethyl)carboxylic acid amide or ethylidenebiscarboxylic acid amide, wherein the N-vinylcarboxylic acid amide content of the N-(1-alkoxyethyl)-carboxylic acid amide or ethylenebiscarboxylic acid amide is 10 wt.% or less.