

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 November 2005 (03.11.2005)

PCT

(10) International Publication Number
WO 2005/103184 A1

(51) International Patent Classification⁷: **C09J 133/06**,
A61K 9/70, A61L 15/58, 15/44, C08F 6/00

(21) International Application Number:
PCT/JP2005/008391

(22) International Filing Date: 26 April 2005 (26.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-131080 27 April 2004 (27.04.2004) JP
60/569,622 11 May 2004 (11.05.2004) US

(71) Applicant (for all designated States except US): **SHOWA DENKO K. K.** [JP/JP]; 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ISHII, Tetsuya** [JP/JP]; C/O Production & Technology Control Department Specialty Chemicals Division, SHOWA DENKO K.K., 5-1, Ogimachi, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-0867 (JP).

(74) Agent: **OHIE, Kuniyisa**; Ohie Patent Office, Selva-Ningyocho 6F, 14-6, Nihonbashi-Ningyocho 2-chome, Chuo-ku, Tokyo 103-0013 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

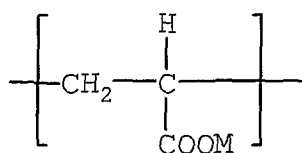
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

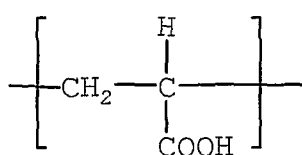
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

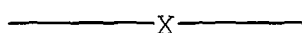
(54) Title: ADHESIVE FOR DERMAL PATCH AND PRODUCTION PROCESS THEREOF



(1)



(2)



(3)

(57) Abstract: The present invention provides an adhesive for a dermal patch comprising an acrylate-base polymer in which the repetitive unit is represented by the formulae (1), (2) and (3): wherein M represents NH₄⁺ or an alkali metal, and X represents an unsaturated monomer unit other than the formulae (1) and (2), containing 5 mole or more of acrylic acid (salt) represented by the formula (1) as a monomer unit, in which the content of β-hydroxypropionic acid (salt) is 5,000 ppm or less per solid content of the polymer and having a stable shape retainability, adhesion and percutaneous absorptivity of medicines; an production process thereof; and an adhesive composition for a dermal patch containing the adhesive for a dermal patch, an aluminum compound and water.

WO 2005/103184 A1