(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 May 2003 (22.05.2003)

PCT

(10) International Publication Number
WO 03/041757 A3

(51) International Patent Classification[7]: A61K 9/00

(21) International Application Number: PCT/US02/36716

(22) International Filing Date:
14 November 2002 (14.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/336,307 14 November 2001 (14.11.2001) US
60/399,882 31 July 2002 (31.07.2002) US

(71) Applicant: **ALZA CORPORATION** [US/US]; 1900 Charleston Road, P.O. BOX 7210, Mountain View, CA 94039-7210 (US).

(72) Inventors: **CHEN, Guohua**; 399 Sunset Avenue, Sunnyvale, CA 94086 (US). **HOUSTON, Paul, Ricky**; 3889 Blackstone Court, Hayward, CA 94542 (US). **KLEINER, Lothar, Walther**; 295 Los Altos Court, Los Altos, CA 94022 (US). **WRIGHT, Jeremy, Corwin**; 631 Cuesta Drive, Los Altos, CA 94024-4135 (US).

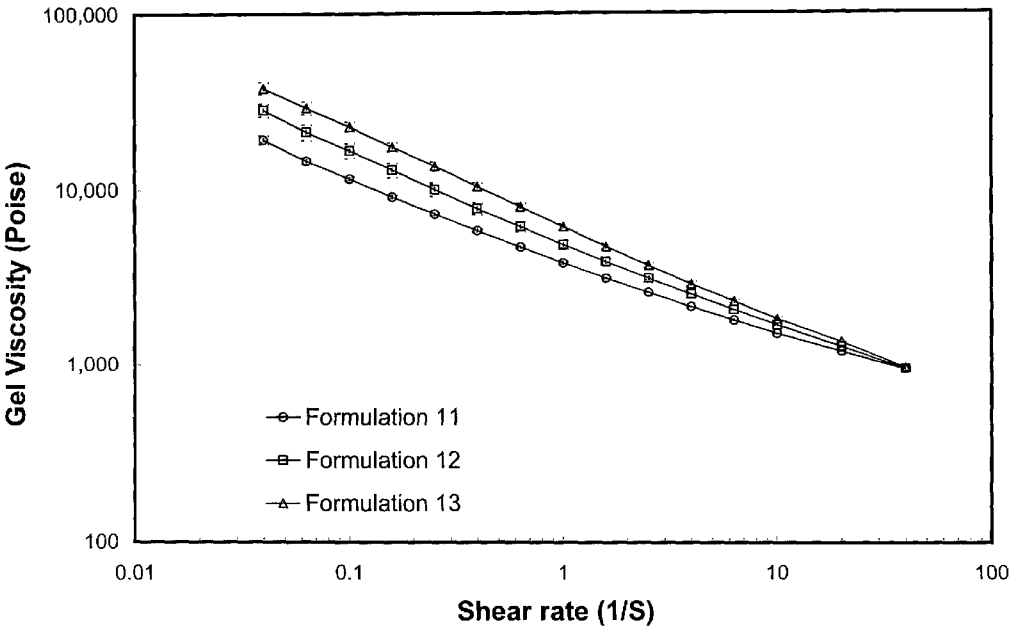
(74) Agents: **DATE, Vandana** et al.; ALZA CORPORATION, 1900 Charleston Road, P.O. Box 7210,, Mountain View, CA 94039-7210 (US).

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

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: CATHETER INJECTABLE DEPOT COMPOSITIONS AND USES THEREOF



(57) Abstract: Catheter injectable depot compositions are provided that include a bioerodible, biocompatible polymer, a solvent having miscibility in water of less than or equal to 7 wt.% at 25°C, in an amount effective to plasticize the polymer and form a gel therewith, a thixotropic agent, and a beneficial agent. The solvent comprises an aromatic alcohol, an ester of an aromatic acid, an aromatic ketone, or mixtures thereof. The compositions are have substantially improved the shear thinning behavior and reduced injection force, rendering the compositions readily implanted beneath a patient's body surface by injection.

WO 03/041757 A3

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*

(88) Date of publication of the international search report:
12 September 2003

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.