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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 June 2003 (05.06.2003)

PCT

(10) International Publication Number
WO 03/045308 A3

(51) International Patent Classification[7]: A61K 49/00

(21) International Application Number: PCT/US02/37385

(22) International Filing Date:
21 November 2002 (21.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/332,074 21 November 2001 (21.11.2001) US

(71) Applicant *(for all designated States except US)*: **E-Z-EM, Inc.** [US/US]; 1111 Marcus Avenue, Lake Success, NY 11042 (US).

(72) Inventors *(for US only)*: **LAUENSTEIN, Thomas, C.**; Essen, Germany (DE). **DEBATIN, Jorg, F.**; Essen, Germany (DE). **SCHNEEMAN, Herbert**; Essen, Germany (DE).

(74) Agent: **PARKER, Thomas, J.**; Coudert Brothers LLP, 1114 Avenue of the Americas, New York, NY 10036 (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, US, 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).

Published:
— *with international search report*

(88) Date of publication of the international search report:
18 December 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.

WO 03/045308 A3

(54) Title: FORMULATIONS FOR USE IN MEDICAL OR DIAGNOSTIC PROCEDURES

(57) Abstract: The present invention relates to formulations for use in medical or diagnostic procedures comprising a stabilizing agent alone or in combination with an osmotic agent. In one embodiment, the stabilizing agent is a natural hydrocolloid, preferably locust bean gum, and the osmotic agent is a sugar-based compound, preferably mannitol. The present invention also relates to formulations and methods for distending an anatomic segment. The present invention further relates to formulations and methods for delineating an anatomic segment on a diagnostic image, for example. The formulations of the present invention are esspecially suitable for use with diagnostic imaging procedures including, but not limited to magnetic resonance imaging (MR), computer assisted tomography (CT), and CT-PET (Position emission tomography), as well as other medical and therapeutic uses.