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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 June 2003 (12.06.2003)

PCT

(10) International Publication Number
WO 03/047530 A2

(51) International Patent Classification[7]: A61K

(21) International Application Number: PCT/US02/38739

(22) International Filing Date: 4 December 2002 (04.12.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/336,636 4 December 2001 (04.12.2001) US

(71) Applicant and
(72) Inventor: **WOOLVERTON, Christopher, J.** [US/US]; 1203 Windward Lane, Kent, OH 44242-0001 (US).

(74) Agent: **McCONATHY, Evelyn, H.**; Dilworth Paxson LLP, 3200 Mellon Bank Center, 1735 Market Street, Philadelphia, PA 19103 (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, 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, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

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 03/047530 A2

(54) Title: STORAGE-STABLE FIBRIN SEALANT

(57) Abstract: Provided are supplemented and unsupplemented, ready-to-use and instantly-available fibrin sealants ("FS"), prepared from ready-to-use, storage-stable, concentrated liquid fibrinogen preparations. The thus-produced FS product when applied to a tissue provides the elasticity, tensile strength, and adhesiveness necessary to prevent blood loss, to promote wound healing, and for many other therapeutic and non-therapeutic applications. Further provided are kits for, and methods of preparation of, the supplemented and unsupplemented, storage-stable FS products of the present invention, and methods of use and delivery therefor.