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(21) International Application Number: PCT/US99/15004 (22) International Filing Date: 1 July 1999 (01.07.99) (30) Priority Data: 09/108,308 1 July 1998 (01.07.98) US (71) Applicant: SEA RUN HOLDINGS, INC. [US/US]; 339 River Road, Arundel, ME 04046 (US). (72) Inventors: SAWYER, Evelyn, S.; 339 River Road, Arundel, ME 04046 (US). SAWYER, Philip, J.; 339 River Road, Arundel, ME 04046 (US). GORLIN, Jed, B.; Memorial Blood Center of Minnesota, 2304 Park Avenue, South Minneapolis, MN 55404-3789 (US). JAMNEY, Paul, A.; Brigham and Womens Hospital, 221 Longwood Drive, Boston, MA 02115 (US). (74) Agent: CHAMPAGNE, Thomas, M.; Rabin & Champagne, P.C., Suite 1111, 1725 K Street, N.W., Washington, DC 20006 (US).	(81) Designated States: IS, NO, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 9 March 2000 (09.03.00)	
(54) Title: A FIBRIN SEALANT FROM CLOTTING FACTORS IN FISH BLOOD		
(57) Abstract <p>The present invention is a fibrin sealant and a method for producing a fibrin sealant from fish blood. Whole blood is drawn from the donor fish and centrifuged to separate blood cells from plasma. Prothrombin and fibrinogen are extracted from this plasma, and the prothrombin is activated to thrombin. The fibrinogen and thrombin components are then combined as needed to form the fibrin sealant.</p>		

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/15004

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A61K 35/14, 35/16, 38/36
US CL :424/529, 530; 530/380, 381, 382, 384, 857

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/529, 530, 94.64; 530/380, 381, 382, 384, 857

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


EAST, BIOSIS, MEDLINE, CAPLUS, INPADOC;
search terms: fibrin(5a)(glue or adhe?) and fish

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,583,114 A (BARROWS et al.) 10 December 1996, see the entire document.	1-3

Further documents are listed in the continuation of Box C. See patent family annex.

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