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(21) International Application Number: PCT/CA95/00617 (22) International Filing Date: 30 October 1995 (30.10.95) (30) Priority Data: 08/384,555 3 February 1995 (03.02.95) US (71) Applicant: LES LABORATOIRES AETERNA INC. [CA/CA]; 456 Marconi Street, Parc Jean-Talon, Quebec, Quebec G1N 4A8 (CA). (72) Inventors: DUPONT, Eric; 141 de la Presqu'île, St-Nicolas, Quebec G0S 2Z0 (CA). BRAZEAU, Paul; 12460 Odette Oligny, Montreal, Quebec H4J 9Z7 (CA). JUNEAU, Christina; Apartment 203, 787 Gingras Street, Ste-Foy, Quebec G1X 3T5 (CA). MAES, Daniel, H.; 5 Lakeview Court, Huntington, NY 11743 (US). MARENUS, Kenneth; 62 McCulloch Drive, Dix Hills, NY 11746 (US). (74) Agents: DUBUC, Jean, H. et al.; Goudreau Gage Dubuc & Martineau Walker, 3400 The Stock Exchange Tower, P.O. Box 242, 800 Victoria Square, Montreal, Quebec H4Z 1E9 (CA).	(81) Designated States: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	
(54) Title: EXTRACTS OF SHARK CARTILAGE, PROCESS OF PRODUCTION AND USES THEREOF		
(57) Abstract The present invention relates to cartilage extracts and to a method of producing the same. Shark cartilage extracts having anti-angiogenic, direct anti-tumor proliferating, anti-inflammatory and anti-collagenolytic activities have been obtained by an improved process. The process comprises the steps of obtaining a homogenate of cartilage in an aqueous solution, this homogenate being centrifuged and further fractionated to obtain a total extract having molecules of a molecular weight comprised between 0 to 500 KDa. The composition of the liquid extract has then been investigated by different ways. Further fractionation of this extract led to the preliminary characterization of some of its active components. Due to the multiplicity of biological activities of the total liquid extract, it can be used for treating numerous diseases or conditions such as those having components selected from the group consisting of tumor proliferation, angiogenesis, inflammation and collagenolysis. This extract has no offensive effect on normal body functions. Therefore, this shark cartilage extract has a very promising therapeutic value. The process for the obtention of cartilage extracts is simple and efficient. The unexpectedly valuable products obtained by this process are therefore an indication of a new and non-obvious process.		