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International application number: PCT/NO2007/000402

International filing date: 15 November 2007 (15.11.2007)

Document type: Certified copy of priority document

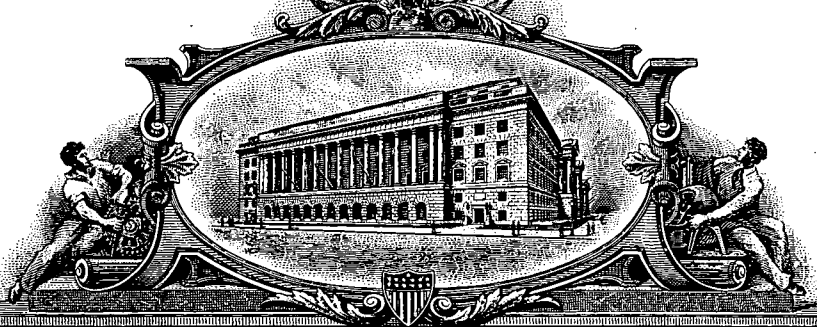
Document details: Country/Office: US
Number: 60/859,289
Filing date: 16 November 2006 (16.11.2006)

Date of receipt at the International Bureau: 11 December 2007 (11.12.2007)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



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APPLICATION NUMBER: *60/859,289*

FILING DATE: *November 16, 2006*

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

Express Mail Label No.

INVENTOR(S)

Given Name (first and middle (if any))	Family Name or Surname	Residence (City and either State or Foreign Country)
Harald	Breivik	Porsgrunn, Norway

Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (280 characters max)

PROCESSES FOR PRODUCTION OF OMEGA-3 RICH MARINE PHOSPHOLIPIDS FROM KRILL

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ENCLOSED APPLICATION PARTS (check all that apply)

Specification Number of Pages

15

CD(s), Number

Drawing(s) Number of Sheets

Other (specify)

Application Data Sheet. See 37 CFR 1.76

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

Applicant claims small entity status. See 37 CFR 1.27.

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.

Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,

SIGNATURE

Date November 16, 2006

TYPED or PRINTED NAME John A. Castellano

REGISTRATION NO. 35,094
(if appropriate)

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Docket Number:
2600N-000001/US/PS1

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

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krill

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Title: "Processes for production of omega-3 rich marine phospholipids from krill"

Field of the invention

The present invention relates to a process for preparing a substantially total lipid fraction from fresh krill, and a process for separating phospholipids from the other lipids.

Background of the invention

Marine phospholipids are useful in medical products, health food and human nutrition, as well as in fish feed and means for increasing the rate of survival of fish larval and fry of marine species like cod, halibut and turbot.

Phospholipids from marine organisms comprise omega-3 fatty acids. Omega-3 fatty acids bound to marine phospholipids are assumed to have particularly useful properties.

Products such as fish milt and roe are traditional raw materials for marine phospholipids. However, these raw materials are available in limited volumes and the price of said raw materials is high.

Krill are small, shrimp-like animals, containing relatively high concentrations of phospholipids. In the group *Euphasiids*, there is more than 80 species, of which the Antarctic krill is one of these. The current greatest potential for commercial utilisation is the Antarctic *Euphausia superba*. *E. superba* has a length of 2-6 cm. Another krill species is *E. crystallophias*.

Fresh krill contains up to around 10 % of lipids, of that approximately 50 of % phospholipids. Phospholipids from krill comprise a very high level of omega-3 fatty acids, whereof the content of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) is above 40 %. The approximate composition of lipids from the two main species of Antarctic krill is given in Table 1.

35

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