IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: SAMPALIS, Fotini   Confirmation No.:   1767

Serial No.:   13/189,714   Group Art Unit: 1629

Filed: July 25, 2011   Examiner: POLANSKY, Gregg

FOR: **NATURAL   MARINE   SOURCE   PHOSPHOLIPIDS   COMPRISING POLYUNSATURATED FATTY ACIDS AND THEIR APPLICATIONS**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT/RESPONSE TO OFFICE ACTION

In response to the Non-Final Official Action dated January 5, 2012, please amend the above-identified patent application in the following manner:

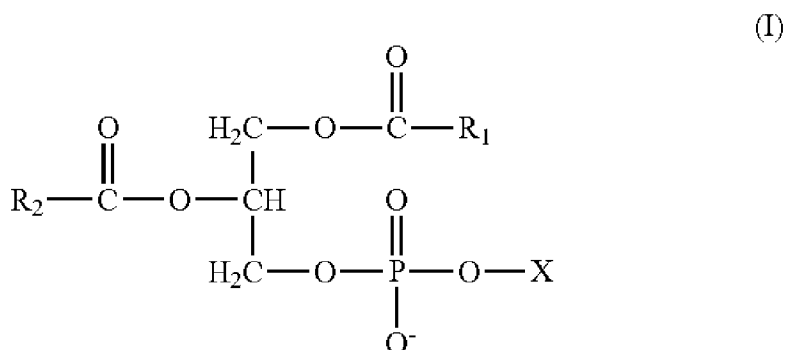**Amendments to the Claims** begin on page 2 of this paper.

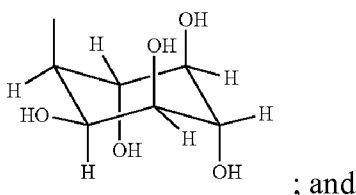**Remarks** begin on page 27 of this paper.

IN THE CLAIMS:

Set forth below in ascending order, with status identifiers, is a complete listing of all claims currently under examination. Changes to any amended claims are indicated by strikethrough and underlining. This listing also reflects any cancellation and/or addition of claims.

1. - 120. (Cancelled)

121.   (New) A phospholipid extract derived from marine or aquatic biomass, the extract comprising: a phospholipid of the formula (I),

(I)

wherein R1 and R2, each together with the respective carboxyl groups to which each is attached, each independently represents a docosahexaenoic acid (DHA) or an eicosapentaenoic acid (EPA) residue, and X is -$CH_2CH_2NH_3$, -$CH_2CH_2N(CH_3)_3$, or

; and

wherein the extract is suitable for human consumption.

122.　(New) The extract according to claim 121, wherein the extract has a total phospholipid concentration in an amount of about 40% w/w, wherein about represents ± 10%.

123.　(New) The extract according to claim 121, wherein the extract has a total phospholipid concentration in an amount of about 45% w/w, wherein about represents ± 20%.

124.　(New) The extract according to claim 121, further comprising an additional lipid, wherein the additional lipid is selected from the group consisting of monoglycerides, triglycerides, cholesterols, mixtures thereof, and free fatty acids.

125.　(New) The extract according to claim 121, wherein the extract has a concentration of free fatty acids of about 5% w/w of the lipids in the extract.

126.　(New) The extract according to claim 121, wherein the extract further comprises polyunsaturated fatty acids which comprise at least 15% w/w of the lipids in the extract.

127.　(New) The extract according to claim 121, wherein the extract further comprises polyunsaturated fatty acids which comprise at least 40% w/w of the lipids in the extract.

128.　(New) The extract according to claim 121, wherein the extract further comprises polyunsaturated fatty acids which comprise at least 45% w/w of the lipids in the extract.

129.　(New) The extract according to claims 126, 127, or 128, wherein the polyunsaturated fatty acids are omega-3 fatty acids.

130.　(New) The extract according to claim 121, wherein DHA and EPA comprise at least 32% w/w of the lipids in the extract.

131.　(New) The extract according to claim 121, wherein DHA and EPA comprise at least 35% w/w of the lipids in the extract.

132.　(New) The extract according to claim 121, further comprising a metal.

133.　(New) The extract according to claim 132, wherein the metal is zinc, selenium or a mixture thereof.

134.　(New) The extract according to claim 133, wherein the zinc comprises at least 0.005 mg/100g of the extract and the selenium comprises less than 3 mg/100g of the extract.

135.   (New) The extract according to claim 124, wherein the fatty acid composition of the lipids in the extract is about:

Fatty Acids	Total Phospholipid Fatty Acid %	Phosphatidyl-choline Fatty Acid %	Phosphatidyl-ethanolamine Fatty Acid %
C14:0 MYRISTIC	2	2	0.7
C14:1 MYRISTOLEIC	1		
C15:0 PENTADECANOIC	0.2	0.3	0.3
C16:0 PALMITIC	24	27	24
C16:1 PALMITOLEIC	2	2	0.7
C18:0 STEARIC	1	1	3
C18:1 OLEIC	9	12	24
C18:2n6 LINOLEIC	2	2	0.8
C18:3n6 GLA	1	0.3	
C18:3n3 ALA	1	1	
C18:4n3 OTA	2	2	0.3
C20:0 ARACHIDIC			
C20:1 cis-11-EICOSENOIC	0.5	0.6	0.7
C20:2n6 EICOSADIENOIC			
C20:3n6 METHYL ETA		0.2	
C20:4n6 ARACHIDONIC	0.6	0.7	0.6

C20:3n3 Homo-γ-LINOLENIC			
C20:4n3			
C20:5n3 EPA	27	32	13
C22:0 BEHENIC			
C22:1 ERUCIC	1	1.5	
C22:2n6			
C22:4n6			
C22:5n6 METHYL DPA			
C22:5n3 DPA		1.00	
C22:6n3 DHA	25	14	32
C24:0 LIGNOCERIC			
C24:1 NERVONIC			
Total	100.0	100	100;

wherein about represents ± 10%.

136.   (New) The extract according to claim 135, wherein the total fatty acid composition of all the lipids in the extract is:

Sample	%
Fatty Acid Composition	
C14 : 0	≥3.00
C14 : 1	≥0.01
C15 : 0	≥0.3

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.