# PATENT OWNER ORAL PRE

UNITED STATES PATENT AND TRADEMARK

BEFORE THE PATENT TRIAL AND APPEAL I

RIMFROST AS, Petitioner,

V.

AKER BIOMARINE ANTARCTIC AS, Patent Owner.

IPR2020-01532 (Patent 9,644,169 B2) IPR2020-01533 (Patent 9,816,046 B2)



## **INSTITUTED GROUN**

US PAT NO 9,644,169 ('169 Patent)

US PA

| Ground | References                   | Basis     | Claims Challenged |
|--------|------------------------------|-----------|-------------------|
| 1      | Breivik II, Catchpole,       | 35 U.S.C. | 1-5, 7-15, 17-20  |
|        | Budziński, Fricke, Randolph  | §103(a)   |                   |
| 2      | Breivik II, Catchpole,       | 35 U.S.C. | 6, 16             |
|        | Budziński, Fricke, Randolph, | §103(a)   |                   |
|        | Sampalis I                   |           |                   |
|        |                              |           |                   |

| Re        | Ground |  |
|-----------|--------|--|
| Breivik 1 | 1      |  |
| Budziŕ    |        |  |
| Bottino   |        |  |
| Breivik 1 | 2      |  |
| Budziŕ    |        |  |
| Bottino   |        |  |
| Breivik   | 3      |  |
| Budzii    |        |  |
| Bottino   |        |  |
| Sa        |        |  |
|           |        |  |

## All Grounds reply on Breivi



## CLAIMS - '169 Pate

- 1. A method of production of krill oil comprising:
  - a) providing krill;
  - b) treating said krill to denature lipases and phospholipases in said kril
  - c) storing said denatured krill product for a storage period of from 1 to
- d) after said storage period, extracting oil from said denatured krill pro oil with from about 3% to about 15% ether phospholipids w/w of said krill oil astaxa about 100 mg/kg of said krill oil.
- 4. The method of claim 1, wherein said denatured krill product is a krill meal.
- 12. A method of production of krill oil comprising:
- a) obtaining a denatured krill product produced by treating freshly harv phospholipases in said krill and that has been stored from 1 to 24 months; and
- b) extracting oil from said denatured krill product that has been stored solvent to provide a krill oil with from about 3% to about 15% ether phospholipids vanount of greater than about 100 mg/kg of said krill oil.



## CLAIMS - '046 Pate

1. A method of production of krill oil comprising:

obtaining a krill meal produced by a process comprising treating krill to des phospholipases naturally present in krill and wherein said krill meal has been stored for and

extracting krill oil from said krill meal that has been stored from 1 to 36 morprovide a krill oil with greater than 30% phosphatidylcholine w/w of said krill oil and ast

- 13. A method of production of *Euphausia superba* krill oil comprising:
- a) obtaining a *Euphausia superba* krill meal produced by a process comprising destroy the activity of lipases and phospholipases naturally present in *Euphausia superba* krill meal has been stored from 1 to 36 months; and
- b) extracting *Euphausia superba* oil from said krill meal that has been stored polar solvent to provide a *Euphausia superba* krill oil comprising greater than 30% phos said *Euphausia superba* krill oil, less than 3% free fatty acids w/w of said *Euphausia superba*



# CLAIMS – Key Featur

- Starting material: Denatured krill product (which can be krill m process which destroys activity of lipases and phospholipases.
- Storing the denatured krill product/krill meal for from 1 to 24 i
- Extracting krill oil containing phospholipids from the stored kri polar solvent.



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