Title: PRODUCT AND COMPOSITION FOR ALLEVIATING POST-MENSTRUAL SYMPTOMS COMPRISING CARAPA PROCERA AND CALOTROPIS PROCERA

Abstract: The current invention relates to a natural composition for topical application to skin to alleviate post-menstrual symptoms of cramping, backache, and breast tenderness; and for other aches and pains including rheumatic, muscular and articular pains; and local treatment such as tendinitis, tennis elbow, benign distortions, arthritis, osteoarthritis, neuralgia, sciatic nerve, lumbar, back pains, migraine, stiff neck, and insect bites. In one embodiment, the composition of the cream or lotion includes active natural ingredients of Carapa procera and Calotropis procera with shea butter and soy oil. In one embodiment the composition includes,- by weight percent, 30% to 80% Butyropermum parkii (Shea butter),- 10% to 30% Glycine soja (soy); 10% to 30% Carapa procera; 3% to 10% Calotropis procera; and 3% to 10% Menthol.
PRODUCT AND COMPOSITION FOR ALLEVIATING POST-MENSTRUAL SYMPTOMS COMPRISING CARAPA PROCERA AND CALOTROPIS PROCERA

RELATED APPLICATIONS
This application is related to US provisional patent application number 61073798 filed by applicant on June 19, 2008, and claims priority from that application.

BACKGROUND- Field of Invention
The current invention relates to a natural composition for topical application to skin to alleviate post-menstrual symptoms of cramping, backache, and breast tenderness.

BACKGROUND- Prior Art
Prior art topical compositions have been used for the treatment of sports injuries and for massage therapy.

There is a need for products and product delivery methods which effectively address PMS discomfort.

The current invention addresses that need, by providing a natural composition which is effective for alleviating post-menstrual symptoms of cramping, backache, and breast tenderness.

SUMMARY OF INVENTION
In one embodiment of the current invention, a cream or lotion is provided. In one example, the composition of the cream or lotion includes active natural ingredients of Carapa procera and Calotropis procera with shea butter and soy oil. In other embodiments, other skin conditioners and carriers may be substituted for the shea butter and soy oil.

Applicant has found that topically-applied Carapa procera and Calotropis procera compositions provide unexpected relief of PMS symptoms including cramps and abdominal discomfort, backache, and breast tenderness.
In one embodiment, the composition is provided as an ointment, lotion, or cream that is rubbed on the skin.

In one embodiment, the composition is provided in a roll-on container so that it can be applied to the skin.

In another embodiment, the composition is provided as a spray which is sprayed on the skin.

In one embodiment, the composition is provided in dry packs that can be added to bath water.

In another embodiment, a composition is provided as a hot pack to be applied to skin after a cold bath.

DESCRIPTION OF INVENTION - PMS 4 PMS™ ointment

The following examples are illustrative of the present invention. The components and specific ingredients are presented as being typical, and various modifications can be derived in view of the foregoing disclosure within the scope of the invention. All percentages, ratios and proportions herein are by weight, unless otherwise specified. All temperatures are in degrees Celsius unless otherwise specified.

Example 1 - cream composition

In this example, a composition is provided from all natural ingredients, including *Carapa procera* and *Calotropis procera*.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Composition Range (Weight %)</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Butrospermum parkii</em> (Shea butter)</td>
<td>30% to 80%</td>
</tr>
<tr>
<td><em>Glycine soja</em> (soy)</td>
<td>10% to 30%</td>
</tr>
<tr>
<td><em>Carapa procera</em></td>
<td>10% to 30%</td>
</tr>
</tbody>
</table>
**Calotropis procera**  0.5% to 10%
Menthol  0.5% to 10%

INDICATIONS: The Shea butter and plants in this ointment work together to relieve many aches and pains such as external use rheumatic, muscular and articular pains; for local treatment such as tendinitis, tennis elbow, benign distorsions, arthritis, osteoarthritis, neuralgia, sciatic nerve, lumbago, back pains, menstrual pains, all massages for sportsmen (wrench, breakdown, ache), migraine, stiff neck, and insect bites.

Example directions for PMS 4 PMS are:

"As soon as you feel a cramp coming on apply a thin layer of PMS ointment to the lower abdomen from hip to hip and gently massage in. If you experience lower back pain apply to that area as well. Apply repeatedly as often as needed."

The composition may be provided in wet or dry form in a variety of packages including those example delivery package forms described below.

**Example 2- cream composition**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Composition (Weight %)</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Vitellaria paradoxa</em> (Shea Butter)</td>
<td>65%</td>
</tr>
<tr>
<td>Soybean Oil</td>
<td>15%</td>
</tr>
<tr>
<td><em>Carapa procera</em> oil</td>
<td>15%</td>
</tr>
<tr>
<td>Ingredient</td>
<td>Percentage</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Calotropis procera</td>
<td>0.5%</td>
</tr>
<tr>
<td>Menthol</td>
<td>0.5%</td>
</tr>
<tr>
<td>Aromatic oil of Santalum album</td>
<td>(for natural scent only)</td>
</tr>
</tbody>
</table>

In this example, the composition is prepared in a two step process. In the first step, a shea butter is prepared. In the second step, the shea butter is mixed with other ingredients to form the composition.

Step I: Shea Butter Preparation:

Shea Butter is a butter extracted from the kernel of *Butrospermum parkii*. This plant, also referred to as *Vitellaria paradoxa*, is native to Africa. The term butter describes a material that is a solid at room temperature, but melts at about 40 degrees Celsius.

The Shea butter preparation typically lasts about two days. The required quantity of Shea butter is added to a mixer. Water (20%), lemon juice extract (10%), and sea salt (NaCl – 5%) are added to the mixer. The mixture is heated to 60-70 degrees Celsius. Once all of the ingredients have melted, activate the electric mixer which will agitate at 3000 turns per minute for 15-20 minutes. The mixture is allowed to settle for 24 hours; and water and the settled impurities are drained from the bottom of the mixer. The Shea butter is then recovered and is ready to be used as a base component for the composition of the current invention.

Step II: Composition preparation:

In a 100 kilogram kettle, add the following ingredients in the order indicated below:

1. Shea butter preparation;
2. Soybean oil;
3. Grate and mash the required quantity of *Calotropis procera*, add to kettle and mix together;
4. Heat the kettle to 25-30 degrees Celsius and activate the agitator/mixer;
5. When the temperature of the mixture reaches 25 Celsius, add the oils of \textit{Carapa procera} and Menthol;

6. After 20 minutes at 3000 turns per minute to obtain a homogeneous mixture, turn off heating and mixer, and let the mixture settle for 6 hours.

\textbf{USAGE DIRECTIONS}

For muscular and articular pain, apply and massage the ointment/cream intensively on all areas with pain/discomfort twice daily. Massage for 5 minutes the local area with pain and also the surrounding area.

For headache, apply the ointment/cream to the forehead, the temples and behind the ears up to the nape of the neck and gently massage.

For bronchitis discomforts, apply and massage the ointment/cream on the chest and the back morning and night.

The composition should be stored in temperatures less than 25 degrees Celsius.

\textbf{DESCRIPTION OF INVENTION - PMS 4 PMS\textsuperscript{TM} roll-on container}

In this embodiment, a \textit{Carapa procera} and \textit{Calotropis procera} composition is provided as a roll-on product so that it can be applied more conveniently and with less mess than an ointment.

\textbf{DESCRIPTION OF INVENTION - PMS 4 PMS\textsuperscript{TM} spray}

In this embodiment, a \textit{Carapa procera} and \textit{Calotropis procera} composition is provided as a spray-on product so that it can be applied more conveniently and with less mess than an ointment. A patch may be applied after a spray on application.

\textbf{DESCRIPTION OF INVENTION - PMS 4 PMS\textsuperscript{TM} dry bath packs}

In this embodiment, a \textit{Carapa procera} and \textit{Calotropis procera} composition is provided as a package of dry ingredients so that the package can be added to bath water.
In another embodiment, a *Carapa procera* and *Calotropis procera* composition is provided as a package of dry ingredients including Hungarian Wellness Mud so that the package can be added to bath water.

**DESCRIPTION OF INVENTION - PMS 4 PMS™ hot packs**

In this embodiment, a *Carapa procera* and *Calotropis procera* composition is provided as packs that may be heated and applied after a cold bath.

In another embodiment, a *Carapa procera* and *Calotropis procera* composition is provided as Hungarian Wellness Mud packs that may be heated and applied after a cold bath.
CLAIMS

What is claimed is

1. A composition for topical application to the skin comprising:
   
   (a) about 10% to 30% *Carapa Procer*; 
   
   (b) about 0.5% to 10% *Calotropis Procer*; and
   
   (c) a skin conditioner carrier, the composition provided in a package.

2. The composition of claim 1 wherein the skin conditioner carrier is a shea butter.

3. The composition of claim 2 comprising about 30-80% shea butter.

4. The composition of claim 1 comprising about 10-30% soybean oil.

5. The composition of claim 1 comprising about 0.5-10% menthol.

6. The composition of claim 1 comprising

   (a) about 65% Shea butter;

   (b) about 15% soybean oil;

   (c) about 15% *Carapa Procer*;

   (d) about 0.5% *Calotropis Procer*; and

   (e) about 0.5 menthol.
7. The composition of claim 1 wherein the package is a skin cream container.

8. The composition of claim 1 wherein the package is a roll-on container.

9. The composition of claim 1 wherein the package is a spray container.

10. The composition of claim 1 wherein the package is a dry bath pack.

11. The composition of claim 1 wherein the package is a hot pack.

12. A method for treating local discomfort comprising topically applying to a composition to an area of skin, the composition comprising

   (a) about 10% to 30% *Carapa Procera*;

   (b) about 0.5% to 10% *Calotropis Procera*; and

   (c) a skin conditioner carrier.

13. The method of claim 12 wherein the skin conditioner carrier is a shea butter.

14. The method of claim 12 wherein the composition comprises about 30-80% shea butter.

15. The method of claim 11 wherein the composition comprises about 10-30% soybean oil.
16. The method of claim 11 wherein the composition comprises about 0.5-10% menthol.

17. The method of claim 11 wherein the composition comprises

(a) about 65% Shea butter;

(b) about 15% soybean oil;

(c) about 15% *Carapa Proceria*;

(d) about 0.5% *Calotropis Proceria*; and

(e) about 0.5% menthol.

18. The method of claim 11 wherein the composition is sprayed onto the area of skin.

19. The method of claim 11 wherein the composition is provided as a hot pack.

20. The method of claim 11 wherein the composition is provided as a bath pack.
A. CLASSIFICATION OF SUBJECT MATTER

INV. A61P29/00 A61K36/27 A61K36/58

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)
A61K A61P

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 practical, search terms used)
EPO-Internal, EMBASE, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tbody>
<tr>
<td>Y</td>
<td>NYAKABWA W ET AL: &quot;Plantes médicinalees cultivées dans la zone de Kabondo à Kisangani (Zaïre)&quot; AFRICAN STUDY MONOGRAPHS, vol. 11, no. 2, 1 January 1990 (1990-01-01), pages 87-99, XP009122275 page 96, column 2, lines 13-20</td>
<td>1-20</td>
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</table>

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

* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search
4 September 2009

Date of mailing of the international search report
25/09/2009

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Fax (+31-70) 340-3016

Authorized officer
Giró, Annalisa
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<thead>
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<td>Y</td>
<td>TRIBHUBANA PANDA A * &amp; RABINDRA N PADHY B: &quot;Ethnomedicinal plants used by tribes of Kalahandi district, Orissa&quot; INDIAN JOURNAL OF TRADITIONAL KNOWLEDGE, vol. 7, no. 2, 1 April 2008 (2008-04-01), pages 242-249, XP018023981 RESOURCES, NEW DELHI, NEW DELHI - INDIA ISSN: 0972-5938 table 1</td>
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