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ANSELL HEALTHCARE PRODUCTS LLC.

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ANEXOS

2

- ☒ Comprobante de pago de la tasa de presentación de la solicitud. \$443.000
- ☒ Documento que acredite la existencia y representación legal cuando el solicitante sea persona jurídica.
- ☒ Poderes, si fuere el caso. **Fotocopia autenticada**
- ☐ Documento de cesión del inventor al solicitante o a su causante.
- ☐ Declaraciones.
- ☒ Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos)
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TITULO GUANTE TRATADO CON MANZANILLA/ALOE VERA

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(54) Title: CAMOMILE/ALOE VERA TREATED GLOVE

(57) Abstract: The present invention is directed to a glove wherein the interior surfaces of the glove contain a film which includes water, glycerol and a botanical extract. Further embodiments of the invention are directed to the composition of the film and the process for applying the film onto the interior surfaces of the glove.

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**CAMOMILE/ALOE VERA TREATED GLOVE
FIELD OF THE INVENTION**

This invention relates to a disposable glove treated with a composition containing water, glycerol and a botanical extract and the process for applying the composition onto the interior surfaces of the glove.

BACKGROUND OF THE INVENTION

Disposable gloves are widely used as a protective measure to insulate hands from microorganisms and irritants. Many workers, especially those working in the health care, chemical and food handling industries, rely on disposable gloves to provide a protective barrier from harmful microorganisms and irritants. Additionally, the increasing threat of exposure to bio-terrorism has prompted many individuals to wear disposable gloves to protect themselves against deadly microorganisms. Consequently, more individuals are wearing disposable gloves for much longer periods of time than in the past.

Disposable gloves are typically made from latex and vinyl materials which tend to dry and irritate human skin. With the increased use of disposable gloves comes a need to provide a disposable glove that is comfortable to wear and will not dry and irritate the hands of the wearer.

Many botanical extracts have been found to soften and soothe dry and irritated skin. Aloe vera is a well known extract from the aloe plant. Aloe vera is commonly used to treat burns because of its healing, cooling, and moisturizing effects. Camomile is also a well known herb commonly used in teas, but has been found to exhibit anti-inflammatory properties when applied topically.

U.S. Patent 6,274,154 is directed to a disposable glove containing a film of dehydrated aloe vera on the interior surface of the glove. This patent describes applying a solution of aloe vera to the interior surface of a glove, then heating the glove until the water is dehydrated, leaving a film of dehydrated aloe vera on the interior surface of the glove. Since the water is completely dehydrated, the interior surfaces of the glove do not contain any significant amount of moisture. Since no moisture is present, the dehydrated aloe vera peels off as powder thereby minimizing any moisturizing effect.

The present invention fills a present need of providing a glove that is non-irritating to the skin and moisturizes the skin as it is worn.

BRIEF SUMMARY OF THE INVENTION

The present invention is directed to a glove wherein the interior surfaces of the glove contain a film which includes water, glycerol and a botanical extract, the water present in an amount ranging from about 30 mg to about 90 mg per glove.

5 Another embodiment of the invention is directed to a method of applying a film to the interior surfaces of a glove which includes washing a cured glove, drying the washed glove in a tumbler dryer at a temperature of about 50 to about 55°C, spraying a solution into the tumbler dryer while the washed glove is drying and is partially wet, and drying the washed glove until a film forms on the interior surfaces of the washed glove.

10 A further embodiment of the invention is directed to a composition containing water, glycerol, camomile, a thickener, an anti-blocking wax, a wetting agent, a fragrance, a silicone emulsion and a preservative.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates wet gloves drying in a tumble dryer after being washed.

15 Figure 2 shows spraying the moisturizing mixture into the tumble dryer while the gloves are drying.

Figure 3 illustrates the continued spraying of the moisturizing mixture and tumbling of the gloves in the tumble dryer.

Figure 4 shows the drying process for the gloves.

20 DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a glove which has a film on the interior surfaces of the glove. The film is formed by spraying an untreated glove with a composition containing water, glycerol, and a botanical extract while drying in a tumbler dryer. As the glove is tumbled in a tumbler dryer, the tumbling mechanism allows the composition to creep inside the glove when the glove is partially wet. The water from the surface of the glove acts as a carrier for the composition, enabling the composition to form a film throughout the interior surfaces of the glove. The glove is further dried in the tumbler dryer, however, the resulting interior surfaces are moist to the touch. The embodiments of the instant invention are directed to the treated glove, the composition that is sprayed onto the glove, and the process of forming the film onto the interior surfaces of the glove.

25 An untreated glove, *i.e.* a glove that has not been treated with the composition of the present invention, is made from natural rubber latex, polyvinyl chloride, polychloroprene rubber, polyisoprene rubber, butyl rubber, acrylonitrile butadiene rubber

(NBR), carboxylated nitrile, polyurethane rubber, polyacrylate, latices of styrene-butadiene rubber and blends of natural rubber latex with synthetic latices.

5 A preferred untreated glove is a single layer glove manufactured by dipping a heated former into Powder-Free Coagulant (PFC), which is then partially dried in an oven, followed by a single latex dip. A single latex layer is formed on the glove former.

10 It has been discovered that the composition of the present invention containing the combination of water, glycerol and a botanical extract has hygroscopic properties when applied to the surface of a disposable glove. The hygroscopic nature of the composition is responsible for the treated glove surface retaining moisture when the composition is sprayed on an untreated glove while drying in a tumbler dryer. The amount of moisture retained on the treated surfaces of the glove is between 30 and 90 mg/ glove, preferably about 60 mg per glove.

15 Water is present in the composition of the present invention in an amount ranging from about 75 to about 98 weight percent, preferably from about 85 to about 95 weight percent, based on the total weight of the composition.

20 Glycerol is a humectant that is commonly used in cosmetics, liquid soaps, and confectioneries for its moisturizing properties. Many botanical extracts are soluble in glycerol; however, glycerol must be present in the composition of the present invention in an amount sufficient to bind the botanical extract onto the interior glove surface and attach to the human skin while wearing the glove. The effective amount of glycerol in the composition ranges from about 1 to about 14 weight percent, preferably from about 1 to about 7 weight percent, based on the total weight of the composition. Relative to a rubber glove weight of 7 to 10 g, the glycerol is present at a range of about 5 to 30 mg inside and 10 to 40 mg outside.

25 Suitable botanical extracts present in the composition of the present invention may include, but are not limited to, camomile, aloe vera, jojoba, aloe barbadensis extract, passion flower extract, cucumber extract, comfrey leaf extract, saponaria, officinalis extract, myrrh extract, eucalyptus extract, seaweed extracts, and combinations thereof.

30 A preferred botanical extract is camomile. Another preferred botanical extract is aloe vera. A more preferred embodiment is a combination of camomile and aloe vera. The botanical extract is present in an amount of from about 0.01 to about 2.0 weight percent, preferably from about 0.05 to about 0.5 weight percent, based on the total weight of the composition.

The composition of the present invention may also contain thickeners, anti-blocking polypropylene waxes, wetting agents, fragrances, preservatives, and combinations thereof. The function of a coating thickener is to increase the viscosity of the moisturizer mixture, thereby allowing moisturizers to remain evenly on the glove surface during the tumbling and drying process.

Thickeners include, but are not limited to carboxymethyl cellulose and polysaccharide (xanthan) gum, hydroxyethyl cellulose, polyacrylate, polyvinyl alcohol, and combinations thereof. A preferred thickener is carboxymethyl cellulose. Another preferred thickener is xanthan gum. The thickener is present in an amount from about 0.05 to about 0.6 weight percent, preferably from about 0.1 to about 0.3 weight percent, based on the total weight of the composition.

An anti-blocking wax is present to prevent any blocking phenomenon due to the hygroscopic properties of the composition of the present invention. Anti-blocking waxes include, but are not limited to, paraffin wax, microcrystalline wax, polypropylene wax, and combinations thereof. A preferred anti-blocking wax is polypropylene wax. The anti-blocking polypropylene wax is present in an amount ranging from about 1.0 to about 8.0 weight percent, preferably from about 2 to about 5 weight percent, based on the total weight of the composition.

Wetting agents include, but are not limited to, fatty alcohol ethoxylate, othyl phenol ethoxylate, nonyl phenol ethoxylate, sodium alkyl sulphate, sulphated methyl oleate, and combinations thereof. A preferred wetting agent is fatty alcohol ethoxylate or nonyl phenol ethoxylate. The wetting agent is present in an amount ranging from about 0.1 to about 1.0 weight percent, preferably from about 0.3 to about 0.9 weight percent, based on the total weight of the composition.

Preservatives include, but are not limited to, citric acid, sodium benzoate, potassium sorbate, methyl paraben, sodium sulphite and sodium metabisulphite, and combinations thereof.

Preferred preservatives are citric acid and sodium benzoate. Preservatives are present in an amount ranging from about 0.01 to about 0.5 weight percent, preferably from about 0.05 to about 0.2 weight percent, based on the total weight of the composition.

Fragrances include, but are not limited to, vanilla, lilac, jasmine, rose, lemon floral, strawberry, gardenia, apple spice, banana, pumpkin spice, carnation, honey kiwi, tangerine, mandarin, peppermint, mango, violet, ylang-ylang, cassis, bergamot,

grapefruit, rosemary, combinations of the above mentioned fragrances and a complete range of Nivea fragrances.

A preferred fragrance is Nivea scent. Fragrances are present in an amount ranging from about 0.5 to about 10 weight percent, preferably from about 2 to about 8 weight percent, based on the total weight of the composition.

Another embodiment of the invention is directed to a method of applying a film containing the moisturizing composition of the present invention to the interior surfaces of a glove. A cured glove ex-machine is first washed in a tumble washer for a total of two cycles according to the following parameters:

Off-line Washing

Medium	Volume	Gloves (Qty)	Time per cycle	Temperature
Fresh clean water	1200 liters per tumble washing. Two washing per cycle.	14,000 pcs per cycle	34.5 minutes	Ambient

After washing the cured gloves, the wet gloves are partially dried in an AMBITM / Challenger dryer (available from Texchine Incorporated, USA) or a COSMOS dryer (available from COSMOS Engineering, Malaysia) at a temperature ranging from about 40 to about 70°C, preferably from about 48° to about 55°C for about 10 to about 50 minutes. While the gloves are partially wet and still drying, an aqueous solution of the moisturizing composition of the present invention is sprayed into the dryer. The amount of moisturizing solution sprayed into the dryer varies from 18 liters to 36 liters per sample of gloves, depending on the moisturizing effect needed for end users. A sample of gloves contains about 14,000 pieces. For optimum moisturizing effect, the preferred amount of moisturizing solution is 36 liters.

A silicone emulsion may also be sprayed into the dryer along with the moisturizing solution. This allows the glove's outer surface to be siliconised. Silicone is used to ensure that the gloves do not block and the glove's outer surface does not become tacky. A preferred silicone emulsion is Silicone LE 45. Silicone emulsion is present in an amount ranging from about 0.5 to about 4.0 weight percent, preferably from about 1.0 to about 2.0 weight percent, based on the total weight of the moisturizing composition.

The gloves are further dried at a temperature of about 48° to about 52°C for another 3 to 5 hours. The amount of moisturizing composition retained on the surfaces of

the glove ranges from about 0.1 to 2.0 mg/glove, preferably from about 0.5 to about 1.5 mg/glove. The size of the gloves ranges from about size 6 to about size 8.

The tumbling mechanism allows the moisturizing composition to coat the glove and creep inside the glove during the initial stage of drying when the gloves are still partially wet. The water on the gloves acts both as a carrier and lubricating medium. Further drying after the spraying of the moisturizing composition causes some, but not all of the water to evaporate, leaving a moist coating formulation on the treated glove surface.

The following examples further illustrate the invention but, of course, should not be construed as in any way limiting its scope.

COMPARATIVE EXAMPLE 1

The moisture content of standard PFC gloves (available from Ansell (Kedah) Sdn Bhd, Kulim Industrial Estate, Kulim, Kedah, Malaysia) was measured according to the following method. Each sample contained ten pieces of size 8 gloves. The ten pieces of gloves were weighed, oven dried at 100°C for 30 minutes, and weighed after drying. The moisture content was calculated based on the weight of the water lost during drying, calculated by subtracting the weight of the sample after drying from the weight of the sample before drying. The percentage of water lost from drying was calculated as a percentage by the following equation:

$$\frac{\text{Weight of sample before drying} - \text{Weight of sample after drying}}{\text{Weight of sample before drying}} \times 100\%$$

Weight of sample before drying

The results are shown in Table 1. All weights are expressed as grams.

Table 1. Results for Standard PFC Gloves

Sample No.	Wt. Before drying	Wt. After drying	Difference in wt.	Percent water lost
1	84.0879	83.8730	0.2149	0.2556
2	84.9364	84.7228	0.2136	0.2515
3	84.8714	84.5871	0.2843	0.3350
4	84.5961	84.3361	0.26	0.3073

As shown by this comparative example, the weight of the gloves after drying was less than the weight of the gloves before drying, showing that untreated standard PFC gloves contain small amounts of moisture.

EXAMPLE 2

The moisture content of gloves containing a full strength mixture of the moisturizing composition of the present invention was measured by the following method. A moisturizing composition was prepared by mixing the ingredients listed in Table 2 below.

Moisturizing Composition

Table 2.

Material	Batch Quantity
Water	75 to 100 L*
Aloe Vera / Camomile powder	0.1 kg
Citric Acid	0.1 kg
Sodium Benzoate	0.1 kg
Glycerol / Glycerin	7.0 kg
Fatty Alcohol Ethoxylate / Nonyl Phenol Ethoxilate	0.875 kg
Polypropylene Wax ME 43040	5.0 kg
Silicone LE45	2.0 kg
Nivea Scent	5.5 kg
Hydroxyethyl cellulose / Carboxymethyl cellulose / Polysaccharide (Xanthan) gum	0.3 kg

*Note : Top up solution with water until volume is 100 liters

Ex-machine cured gloves (14,000 pieces of size 7 gloves) were washed in a tumble washer for a total of two cycles according to the following parameters:

Off-line Washing

Medium	Volume	Gloves (Qty)	Time per cycle	Temperature
Fresh clean water	1200 liters per tumble washing. Two washing per cycle.	14,000 pcs per cycle	34.5 minutes	Ambient

The washed gloves were then dried in an AMBITM dryer at a temperature ranging from about 50° to about 55°C at ambient pressure. A full strength mixture of the above moisturizing composition (a volume of 18 liters) was sprayed into the dryer after one sample of gloves (about 14,000 pieces of size 7 gloves) was dried for about 25 minutes. The gloves were further dried for about 3 hours.

The treated gloves were then weighed, oven dried at 100°C for 30 minutes, and weighed after drying. As in Comparative Example 1, each sample contained ten gloves. The moisture content was calculated by the same method in Comparative Example 1. The results are shown in Table 3 below. Weights are expressed in grams.

Table 3. Results for Gloves Containing Full Strength Composition

Sample No.	Wt. before drying	Wt. After drying	Difference in Wt.	Percent water loss
1	76.0115	75.4251	0.5864	0.7715
2	75.2132	74.5835	0.6297	0.8372

Table 2 shows that gloves containing a full strength composition contain significantly greater amounts of moisture (as shown by the percent water loss) than standard PFC gloves (Comparative Example 1.).

EXAMPLE 3

5 Example 2 was repeated, but with only a 50% moisturizing composition. The volume of mixture was the same (i.e. 18 liters) but the moisturizing composition of Example 2 was diluted 50/50 with water.

The results are illustrated in Table 4. Weights are expressed in grams.

Table 4. Results for Gloves Containing 50% Composition

Sample No.	Wt before drying	Wt. after drying	Difference in wt.	Percent water loss
1	76.0052	75.6772	0.328	0.4315
2	74.8594	74.5576	0.3018	0.4032

10

Table 4 shows that, even when only a 50% moisturizing solution is sprayed onto the gloves, the amount of moisture on the treated gloves is twice as much as the standard PFC untreated glove (Comparative Example 1.).

EXAMPLE 4

15 This example demonstrates the coverage of the composition of the present invention as a film on the interior surface of the glove and the percentage of moisturizers remaining on the glove after the drying process. For measurement purposes, soda ash (sodium carbonate) was introduced into the 36 liters (Trial 1) and 18 liters (Trial 2) of moisturizing solution at a concentration of 200 grams per liter of moisturizing solution.

20 The moisturizing solution with the soda ash was then sprayed into the dryer containing a sample of gloves (14,000 pieces of size 7 gloves) during the drying process.

Two sets of test samples, each consisting of four pieces of wet gloves, were taken from the dryer after 15 minutes of tumbling. Another two sets of test samples, each consisting of four pieces of dried gloves, were taken from the dryer after the drying

25 process was completed. One set of samples was tested on extraction for the whole glove surface and another set was tested on extraction for inner surface only. Each glove was extracted with 100 ml of de-ionized water. Results are expressed as the average value of four pieces of gloves.

The quantity of soda ash on the glove was determined by the following titration.

30 A glove was tied and placed in an extraction bottle containing 100ml of de-ionized water. The extraction bottle was fixed to an overhead mixer and agitated for about 30 minutes. The extraction was charged into a 250 ml conical flask. Three drops of phenolphthalein

were added to the extract. 0.1 M of HCL was added until the pink color disappeared. This is the end point. The results are shown in Table 5.

Table 5.

Trial	Volume of moisturizers	Type of glove	Quantity of soda ash remaining on the whole glove per quantity of soda ash applied per glove (%)		Quantity of soda ash inside the glove per soda ash on whole glove (%)	
			Wet Glove (after 15 min tumbling)	Dry Glove (after complete cycle)	Wet Glove (after 15 min tumbling)	Dry Glove (after complete cycle)
Trial 1	36L	Camomile/Aloe Exam Glove	43	41	56	63
Trial 2	18L	Camomile/Aloe Exam Glove	24	29	84	67

5 The results show that out of the total moisturizer mixture applied into the tumbler dryer, about one third of the moisturizer mixture remained on the gloves after the complete drying process. The coverage of moisturizer mixture inside the glove is about the same as outside surface i.e., 50% on each side. The results also show that the moisturizer mixture was able to reach up to the inner/inside fingertip area.

10

Example 5

The moisturizing effect was determined using the following hand touch assessment method. A total of eight subjects tested gloves from different sub-lots made with 50% strength moisturizing solution and full strength moisturizing solution. Both hands of a subject were washed, rinsed with cold water, and dried. The hands were further air dried by waving the hands in the air for 30 seconds. The treated gloves were then placed on the hand and warmed for 10 minutes. The subject was then asked to rate the moisturizing effect and scent of the gloves, using the following numbers:

- 1 = No moisturizing effect / No smell of Nivea scent
2 = perceivable moisturizing effect / good smell of Nivea
3 = good moisturizing effect / excellent smell of Nivea

20

Results are shown in Tables 6 and 7.

15

Table 6.

Nivea scented gloves with 50% strength of moisturizing solution

Sample No.	Moisturizing Effect	Scent level	Test Result
1	2	2	Passed
2	2	2	Passed
3	2	2	Passed

Table 7.

5 Unscented gloves with full strength of moisturizing solution

Sample No.	Moisturizing Effect	Scent level	Test Result
1	3	Not available	Accept
2	3	Not available	Accept
3	3	Not available	Accept
4	3	Not available	Accept
5	3	Not available	Accept
6	3	Not available	Accept
7	3	Not available	Accept
8	3	Not available	Accept
9	3	Not available	Accept
10	3	Not available	Accept
11	3	Not available	Accept

As shown in Tables 6 and 7, the gloves treated with full strength moisturizing solution were rated as having good moisturizing effect. Even gloves treated with only a 50% moisturizing solution were rated as having a perceivable moisturizing effect.

- 10 The use of the terms "a" and "an" and "the" and similar referents in the context of describing the invention (especially in the context of the following claims) are to be construed to cover both the singular and the plural, unless otherwise indicated herein or clearly contradicted by context. Recitation of ranges of values herein are merely intended to serve as a shorthand method of referring individually to each separate value falling
- 15 within the range, unless otherwise indicated herein, and each separate value is incorporated into the specification as if it were individually recited herein. All methods described herein can be performed in any suitable order unless otherwise indicated herein or otherwise clearly contradicted by context. The use of any and all examples, or exemplary language (e.g., "such as") provided herein, is intended merely to better
- 20 illuminate the invention and does not pose a limitation on the scope of the invention unless otherwise claimed. No language in the specification should be construed as indicating any non-claimed element as essential to the practice of the invention.

Preferred embodiments of this invention are described herein, including the best mode known to the inventors for carrying out the invention. Of course, variations of those preferred embodiments will become apparent to those of ordinary skill in the art upon reading the foregoing description. The inventors expect skilled artisans to employ such variations as appropriate, and the inventors intend for the invention to be practiced otherwise than as specifically described herein. Accordingly, this invention includes all modifications and equivalents of the subject matter recited in the claims appended hereto as permitted by applicable law. Moreover, any combination of the above-described elements in all possible variations thereof is encompassed by the invention unless otherwise indicated herein or otherwise clearly contradicted by context.

WHAT IS CLAIMED IS:

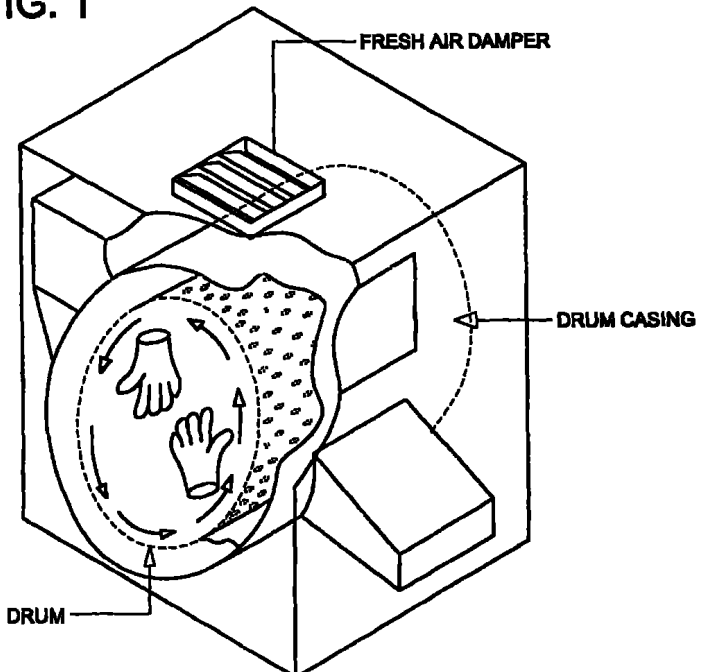
1. A treated glove comprising a glove containing a film on the interior surfaces of the glove, the film comprising water, glycerol and a botanical extract, wherein the water is present in an amount ranging from about 30 mg to about 90 mg per glove.
- 5 2. The treated glove of claim 1, wherein the botanical extract is selected from the group consisting of camomile, aloe vera, and combinations thereof.
3. The treated glove of claim 2, wherein the botanical extract is camomile.
4. The treated glove of claim 2 wherein the botanical extract is aloe vera.
5. The treated glove of claim 1, wherein the film further comprises a thickener, an anti-
10 blocking wax, a wetting agent, a fragrance, a preservative, and combinations thereof.
6. The treated glove of claim 2, wherein the botanical extract is a combination of aloe vera and camomile extract.
7. The treated glove of claim 5, wherein the thickener is selected from the group consisting of carboxymethylcellulose, hydroxyethylcellulose, and polysaccharide
15 (xanthan) gum.
8. The treated glove of claim 5, wherein the anti-blocking wax is polypropylene wax.
9. The treated glove of claim 5, wherein the wetting agent is nonylphenol ethoxylate or fatty alcohol ethoxylate.
10. The treated glove of claim 1, wherein the glove is made from natural rubber latex,
20 acrylonitrile, polyvinyl chloride, polychloroprene, polyisoprene, carboxylated nitrile, polyurethane, styrene-butadiene and blends of natural rubber latex with synthetic lattices.
11. The treated glove of claim 5, wherein the fragrance is Nivea scent.
12. The treated glove of claim 5, wherein the preservative is a combination of citric acid
25 and sodium benzoate.
13. A method of applying a film to the inside surfaces of a glove comprising:
 - (a) washing a cured glove;
 - (b) drying the washed glove of step (a) in a tumbler dryer at a temperature of about 48 to about 55°C;
 - 30 (c) spraying a solution into the tumbler dryer while the washed glove is drying and partially wet;
 - (d) drying the washed glove until a film forms on the interior surfaces of the washed glove.

14. The method of claim 13, where in the solution comprises water, glycerol, and a botanical extract.
15. The method of claim 14 wherein the solution further comprises a thickener, an anti-blocking wax, a wetting agent, a fragrance, a silicone emulsion and a preservative.
- 5 16. The method of claim 14, wherein the botanical extract is selected from the group consisting of camomile, aloe vera, jojoba, aloe barfadenis extract, passion flower extract, cucumber extract, comfrey leaf extract, saponaria, officinalis extract, myrrh extract, eucalyptus extract, seaweed extracts and combinations thereof.
17. The method of claim 16, wherein the botanical extract is camomile.
- 10 18. The method of claim 16 wherein the botanical extract is aloe vera.
19. The method of claim 16 wherein the botanical extract is a combination of aloe vera and camomile extract.
20. The method of claim 19 wherein the solution further comprises a thickener, an anti-blocking polypropylene wax, a wetting agent, a fragrance and a preservative.
- 15 21. A solution comprising water, glycerol, camomile, a thickener, an anti-blocking polypropylene wax, a wetting agent, a fragrance, a silicone emulsion and a preservative.
22. The solution of claim 21 further comprising aloe vera.
23. The solution of claim 21, wherein the silicone emulsion is present in amount ranging from about 1.0 to about 2.0 wt %, based on the total weight of the solution.
- 20 24. The solution of claim 21, wherein the water is present in amount ranging from about 85 to about 95 wt % based on the total weight of the solution.
25. The solution of claim 21, wherein the glycerol is present in an amount ranging from about 1 to about 7 wt % based on the total weight of the solution.
- 25 26. The solution of claim 21, wherein the camomile is present in an amount ranging from about 0.05 to about 0.5 wt % based on the total weight of the solution.
27. The solution of claim 21, wherein the thickener is present in an amount ranging from about 0.1 to about 0.3 wt % based on the total weight of the solution.
28. The solution of claim 21, wherein the anti-blocking polypropylene wax is present in an amount ranging from about 2 to about 5 wt % based on the total weight of the solution.
- 30 29. The solution of claim 21, wherein the wetting agent is present in an amount ranging from about 0.3 to about 0.9 wt. % based on the total weight of the solution.

30. The solution of claim 21, wherein the Nivea fragrance is present in an amount ranging from about 2 to about 8 wt. % based on the total weight of the solution.
31. A method of moisturizing a hand of a human comprising wearing a glove that has a film on inside surfaces of the glove wherein the film comprises water, glycerol, and a botanical extract, and wherein the water is present in an amount ranging from about 30 mg to about 90 mg per glove.
32. The method of claim 31 wherein the botanical extract is camomile.
33. The method of claim 31, wherein the botanical extract is aloe vera.
34. The method of claim 31, wherein the botanical extract is a combination of camomile and aloe vera.
35. A moisturizing glove made by the process according to claim 13.
36. A moisturizing glove made by the process according to claim 14.
37. A moisturizing glove made by the process according to claim 15.
38. A moisturizing glove made by the process according to claim 16.
39. A moisturizing glove made by the process according to claim 17.
40. A moisturizing glove made by the process according to claim 18.
41. A moisturizing glove made by the process according to claim 19.
42. A moisturizing glove made by the process according to claim 20.

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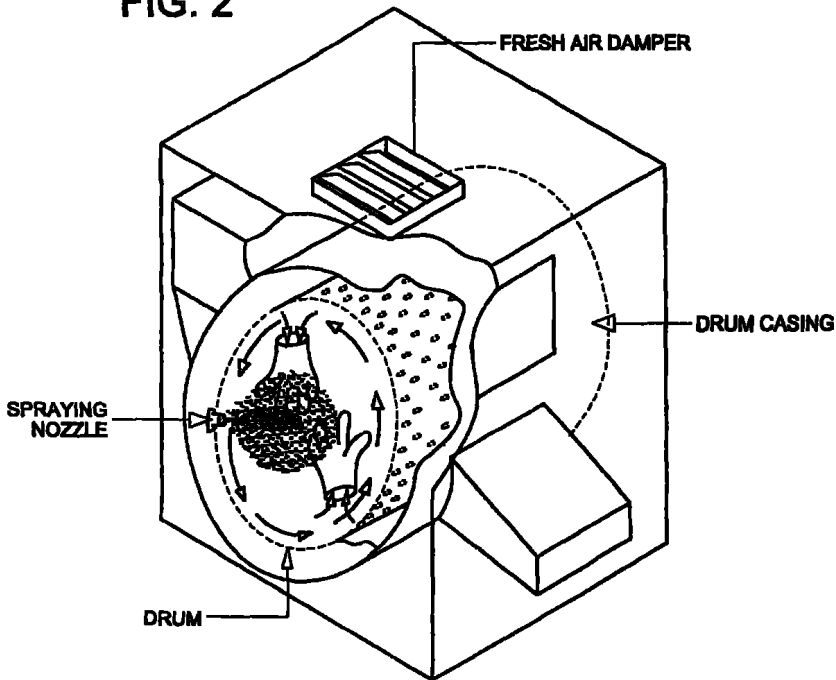
FIG. 1



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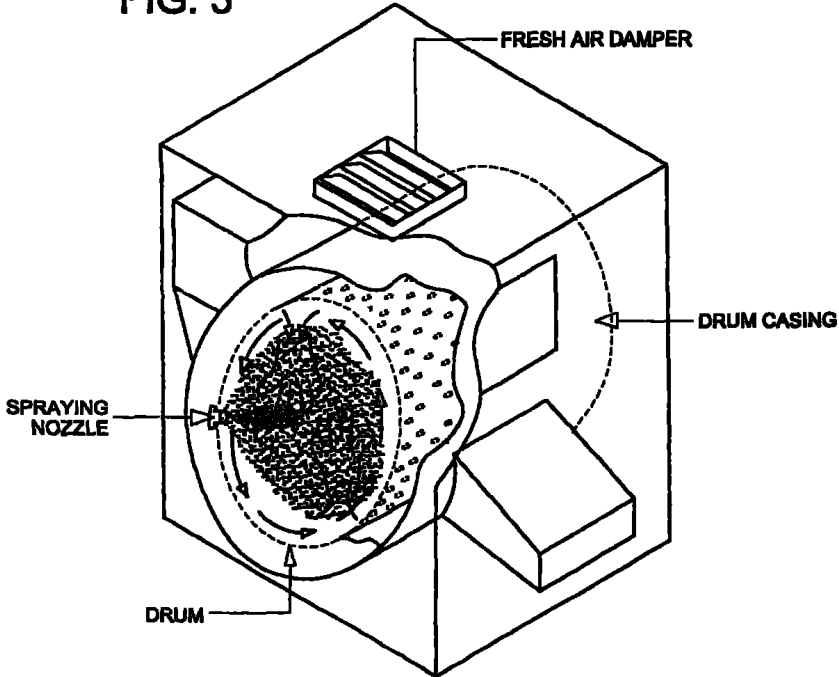
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FIG. 2



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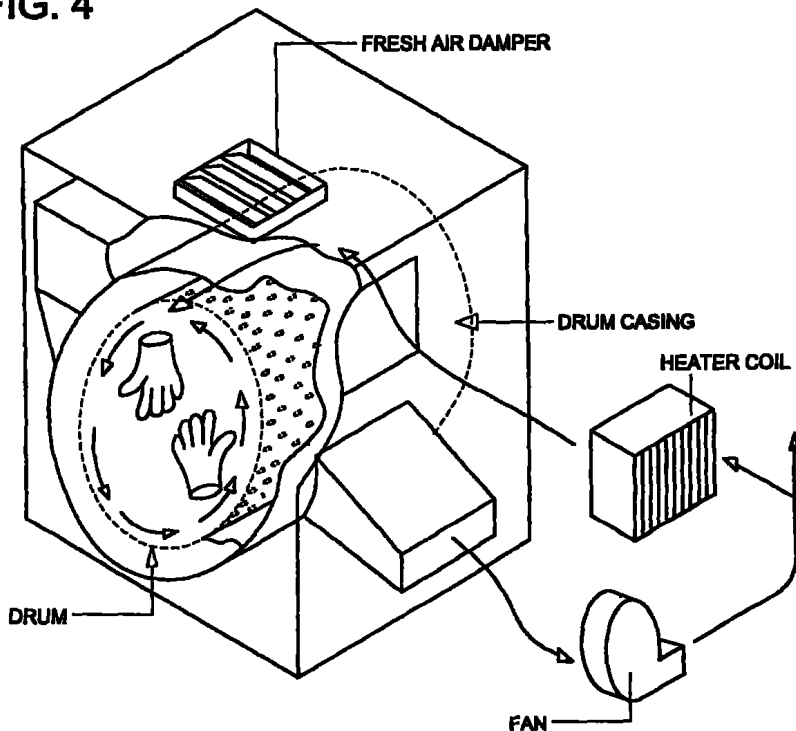
FIG. 3



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FIG. 4



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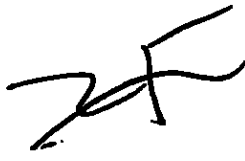
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(54) Título: GUANTE TRATADO CON MANZANILLA/ALOE VERA

(57) Extracto: La presente invención se relaciona con un guante donde las superficies internas del guante contienen una película que incluye agua, glicerol y un extracto botánico. Otras incorporaciones de la invención se relacionan con la composición de la película y el proceso para aplicar la película sobre las superficies internas del guante.

WO 2004/060064 A1



GUANTE TRATADO CON MANZANILLA/ALOE VERA CAMPO DE LA INVENCION

Esta invención se relaciona con un guante desechable tratado con una composición que contiene agua, glicerol y un extracto botánico y el proceso para aplicar la composición a las superficies internas del guante.

ANTECEDENTES DE LA INVENCION

Los guantes desechables se emplean ampliamente como una medida de protección para aislar las manos de microorganismos y sustancias irritantes. Muchos trabajadores, especialmente aquellos que trabajan en el cuidado de la salud, dependen de los guantes desechables como una barrera de protección contra microorganismos nocivos y sustancias irritantes. Adicionalmente, una mayor amenaza a la exposición de bio-terrorismo ha obligado a muchas personas a utilizar guantes desechables para protegerse contra microorganismos letales. Por lo tanto más personas están utilizando guantes desechables durante unos periodos de tiempo más prologados que en el pasado.

Típicamente los guantes desechables se fabrican en látex y en materiales de vinilo que tienden a resecar e irritar la piel humana. El mayor uso de los guantes desechables conlleva la necesidad de disponer un guante desechable que sea cómodo y que no reseque ni irrite las manos del usuario.

Se ha encontrado que muchos extractos botánicos suavizan y alivian la piel seca e irritada. El aloe vera es un extracto muy conocido de la planta aloe. El aloe vera se utiliza en forma común para tratar las quemaduras debido a sus efectos cicatrizantes, refrescantes e hidratantes. La manzanilla también es una hierba muy conocida empleada frecuentemente en té, pero se ha encontrado que tiene unas propiedades antiinflamatorias cuando se aplica en forma tópica.

La Patente de Estados Unidos 6,274,154 hace referencia a un guante

desechable que contiene una película de aloe vera deshidratada en la superficie interna del guante. Esta patente describe la aplicación de una solución de aloe vera a la superficie interna de un guante, luego calentar el guante hasta que el agua se deshidrate dejando una película de aloe vera deshidratada en la superficie interna del guante. Puesto que el agua se deshidrata por completo, las superficies internas del guante no contienen una cantidad significativa de humedad. Puesto que no hay humedad, el aloe vera deshidratado se desprende como un polvo minimizando así cualquier efecto hidratante.

La presente invención satisface una necesidad actual de suministrar un guante que no sea irritante para la piel y que hidrate la piel cuando se lleva puesto.

BREVE RESUMEN DE LA INVENCION

La presente invención hace referencia a un guante donde las superficies internas del guante contienen una película que incluye agua, glicerol y un extracto botánico; el agua presente en una cantidad que varía entre alrededor de 30 mg hasta alrededor de 90 mg por guante.

Otra incorporación de la invención hace referencia a un método para aplicar una película a las superficies internas de un guante que incluye lavar un guante curado, secar el guante lavado en una secadora de tambor a una temperatura de alrededor de 50 a alrededor de 55°C, rociar una solución en la secadora de tambor mientras que el guante lavado se está secando y se encuentra parcialmente mojado y secar el guante lavado hasta que se forma una película en las superficies internas del guante lavado.

Otra incorporación de la invención hace referencia a una composición que contiene agua, glicerol, manzanilla, un espesante, una cera antibloqueo, un agente hidratante, una fragancia, una emulsión de silicona y un conservante.

BREVE DESCRIPCION DE LOS DIBUJOS

La Figura 1 ilustra los guantes mojados que se están secando en una lavadora de tambor después de someterlos a lavado.

La Figura 2 muestra el rociado de la mezcla hidratante en la secadora de tambor mientras los guantes se están secando.

La Figura 3 ilustra el rociado continuo de la mezcla hidratante y la forma en que los guantes giran en la secadora de tambor.

La Figura 4 muestra el proceso de secado de los guantes.

DESCRIPCIÓN DETALLADA DE LA INVENCION

La presente invención dispone un guante que tiene una película en las superficies internas del guante. La película se forma al rociar un guante sin tratar con una composición que contiene agua, glicerol y un extracto botánico mientras se seca en una secadora de tambor. A medida que el guante gira en una secadora de tambor, el mecanismo de rotación permite que la composición se deslice al interior del guante cuando el guante está parcialmente mojado. El agua de la superficie del guante actúa como medio de transporte de la composición, y permite que la composición forme una película en todas las superficies internas del guante. El guante se continúa secando en la secadora de tambor, sin embargo las superficies internas resultantes están húmedas al contacto. Las incorporaciones de la invención instantánea hacen referencia al guante tratado, a la composición que se rocía sobre el guante y al proceso para formar la película sobre las superficies internas del guante.

Un guante sin tratar, *es decir*, un guante que no ha sido tratado con la composición de la presente invención, está manufacturado en látex de caucho natural, cloruro de polivinilo, caucho policloropreno, caucho butilo, caucho acrilonitrilo butadieno (NBR), nitrilo carboxilado, caucho de poliuretano, poliacrilato, látex de caucho estireno-butadieno y mezclas de cauchos naturales látex con látex sintéticos.

Un guante sin tratar preferido es un guante de una sola capa que se

manufactura al sumergir un molde caliente en un Coagulante Libre de Polvo (PFC), el cual se seca parcialmente en un horno y posteriormente se sumerge una vez en látex. Se forma una sola capa de látex en el molde del guante.

Se ha descubierto que la composición de la presente invención que contiene la combinación de agua, glicerol y un extracto botánico tiene propiedades higroscópicas cuando se aplica a la superficie de un guante desechable. La naturaleza higroscópica de la composición es la responsable de que la superficie tratada del guante retiene la humedad cuando la composición se rocía sobre un guante sin tratar mientras se seca en una secadora de tambor. La cantidad de humedad retenida en las superficies tratadas del guante es entre 30 y 90 mg / guante, preferiblemente alrededor de 60 mg por guante.

El agua se encuentra presente en la composición de la presente invención en una cantidad que varía entre alrededor de 75 hasta alrededor de 98 por ciento en peso, preferiblemente desde alrededor de 85 hasta alrededor de 95 por ciento en peso, con base en el peso total de la composición.

El glicerol es un humectante comúnmente empleado en los cosméticos, los jabones líquidos y en la confitería por sus propiedades hidratantes. Muchos extractos botánicos son solubles en glicerol; sin embargo el glicerol debe estar presente en la composición de la presente invención en una cantidad suficiente para aglutinar el extracto botánico a la superficie interna del guante y adherirse a la piel humana mientras el guante se encuentra puesto. La cantidad efectiva de glicerol en la composición varía desde alrededor de 1 hasta alrededor de 14 por ciento en peso, preferiblemente desde alrededor de 1 hasta alrededor de 7 por ciento en peso, con base en el peso total de la composición. Con respecto al peso de un guante de caucho de 7 a 10 g, el glicerol se encuentra presente en un rango de alrededor de 5 a 30 mg en el interior y de 10 a 40 mg en el exterior.

Unos extractos botánicos apropiados presentes en la composición de

la presente invención pueden incluir, pero no se limitan a, manzanilla, aloe vera, jojoba, extracto de aloe barfadenis, extracto de pasionaria, extracto de cohombro, extracto de hoja de consuelda, saponaria, extracto de officinalis, extracto de mirra, extracto de eucalipto, extracto de alga marina y combinaciones de los mismos.

Un extracto botánico preferido es la manzanilla. Otro extracto botánico preferido es el aloe vera. Una incorporación más preferida es una combinación de manzanilla y aloe vera. El extracto botánico está presente en una cantidad desde alrededor de 0.01 hasta alrededor de 2.0 por ciento en peso, preferiblemente desde alrededor de 0.05 hasta alrededor de 0.5 por ciento en peso, con base en el peso total de la composición.

La composición de la presente invención puede también contener espesantes, ceras antibloqueo de polipropileno, agentes hidratantes, fragancias, conservantes y combinaciones de los mismos. La función de una cubierta espesante es aumentar la viscosidad de la mezcla hidratante, permitiendo que los hidratantes se mantengan en forma pareja en la superficie del guante durante el proceso de rotación y de secado.

Los espesantes incluyen, pero no se limitan a carboximetilcelulosa y goma polisacárida (xantano), hidroxietilcelulosa, poliacrilato, polivinil alcohol y combinaciones de los mismos. Un espesante preferido es la carboximetilcelulosa. Otro espesante preferido es la goma de xantano. El espesante se encuentra presente en una cantidad desde alrededor de 0.05 hasta alrededor de 0.6 por ciento en peso, preferiblemente desde alrededor de 0.1 hasta alrededor de 0.3 por ciento en peso, con base en el peso total de la composición.

Una cera antibloqueo se encuentra presente para evitar cualquier fenómeno de bloqueo debido a las propiedades higroscópicas de la composición de la presente invención. Las ceras antibloqueo incluyen, pero no se limitan a cera de parafina, cera microcristalina, cera de polipropileno y combinaciones de las mismas. Una cera antibloqueo preferida es la cera de polipropileno. La cera antibloqueo de polipropileno se encuentra presente en una cantidad que varía desde alrededor de 1.0

hasta alrededor de 8.0 por ciento en peso, preferiblemente desde alrededor de 2 hasta alrededor de 5 por ciento en peso, con base en el peso total de la composición.

Los agentes hidratantes incluyen, pero no se limitan a alcohol graso etoxilado, otil fenol etoxilado, nonil fenol etoxilado, sulfato sódico alquilo, oleato de metilsulfato y combinaciones de los mismos. Un agente hidratante preferido es el alcohol graso etoxilado o nonil fenol etoxilado. El agente hidratante se encuentra presente en una cantidad que varía desde alrededor de 0.1 hasta alrededor de 1.0 por ciento en peso, preferiblemente desde alrededor de 0.3 hasta alrededor de 0.9 por ciento en peso, con base en el peso total de la composición.

Los conservantes incluyen, pero no se limitan a ácido cítrico, benzoato de sodio, sorbato de potasio, metil parabeno, sulfito de sodio y metabisulfito de sodio y combinaciones de los mismos.

Los conservantes preferidos son ácido cítrico y benzoato de sodio. Los conservantes están presentes en una cantidad que varía desde alrededor de 0.01 hasta alrededor de 0.5 por ciento en peso, preferiblemente desde alrededor de 0.05 hasta alrededor de 0.2 por ciento en peso, con base en el peso total de la composición.

Las fragancias incluyen, pero no se limitan a vainilla, lila, jazmín, rosa, limón floral, fresa, gardenia, aroma de manzana, banano, aroma de zapallo, clavel, kivi y miel, mandarina, menta, mango, violeta, ilang-ilang, casis, bergamote, toronja, romero, combinaciones de las fragancias mencionadas arriba y un rango completo de fragancias de Nivea.

Una fragancia preferida es el aroma de Nivea. Las fragancias están presentes en una cantidad que varía desde alrededor de 0.5 hasta alrededor de 10 por ciento en peso, preferiblemente desde alrededor de 2 hasta alrededor de 8 por ciento en peso, con base en el peso total de la composición.

Otra incorporación de la invención hace referencia a un método para aplicar una película que contiene la composición hidratante de la presente invención a las superficies internas de un guante. Un guante curado que

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sale de la máquina, se lava primero en una lavadora de tambor para un total de dos ciclos de acuerdo con los siguientes parámetros:

Lavado fuera de línea

Medio	Volumen	Guantes (Cant.)	Tiempo por ciclo	Temperatura
Agua limpia y fresca	1200 litros por lavado en tambor. Dos lavados por ciclo	14.000 piezas por ciclo	34.5 minutos	Ambiente

Después de lavar los guantes curados, los guantes mojados se secan parcialmente en una secadora AMBITM / Challenger (disponible en Texchine Incorporated, USA) o en una secadora COSMOS (disponible en COSMOS Engineering, Malasia) a una temperatura que varía desde alrededor de 40 hasta alrededor de 70°C, preferiblemente desde alrededor de 48° hasta alrededor de 55°C durante alrededor de 10 hasta alrededor de 50 minutos. Mientras los guantes están parcialmente mojados y se continúan secando, se rocía una solución acuosa de la composición hidratante de la presente invención en la secadora. La cantidad de solución hidratante que se rocía en la secadora varía de 18 litros a 36 litros por muestra de guantes, dependiendo del nivel de hidratación requerido para el usuario final. Una muestra de guantes contiene alrededor de 14.000 piezas. Para un efecto hidratante óptimo, la cantidad preferida de solución hidratante es de 36 litros.

También se puede rociar una emulsión de silicona en la secadora junto con la solución hidratante. Esto permite que la superficie exterior del guante esté cubierta en silicona. Se emplea la silicona para asegurarse que los guantes no se compacten y que la superficie externa del guante no se vuelva viscosa. Una emulsión preferida de silicona es Silicone LE 45. La emulsión de silicona se encuentra presente en una cantidad que varía desde alrededor de 0.5 hasta alrededor de 4.0 por ciento en peso, preferiblemente desde alrededor de 1.0 hasta alrededor de 2.0 por ciento en peso, con base

32

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en el peso total de la composición hidratante.

Los guantes se continúan secando a una temperatura de alrededor de 48° hasta alrededor de 52°C por unas 3 a 5 horas más. La cantidad de composición hidratante retenida sobre las superficies del guante varía desde alrededor de 0.1 a 2.0 mg/guante, preferiblemente desde alrededor de 0.5 hasta alrededor de 1.5 mg/guante. El tamaño de los guantes varía desde alrededor de la talla 6 hasta alrededor de la talla 8.

El mecanismo de tambor permite que la composición hidratante recubra el guante y se deslice al interior del guante durante la etapa inicial de secado cuando los guantes aún están parcialmente mojados. El agua en los guantes actúa como medio de transporte y como medio de lubricación. Un secado adicional después de rociar la composición hidratante hace que una parte, pero no todo el agua se evapore dejando una formulación de recubierta húmeda sobre la superficie tratada del guante.

Los siguientes ejemplos ilustran la invención aún más, pero claro, no se deben interpretar en ninguna forma como una limitación de su ámbito.

EJEMPLO COMPARATIVO 1

El contenido de humedad de los guantes Standard PFC (disponibles en Ansell (Kedah) Sdn Bhd, Kulim Industrial Estate, Kulim, Kedali, Malasia) se midió de acuerdo con el siguiente método. Cada muestra contenía diez piezas de guantes talla 8. Se pesaron las diez piezas de guantes, se secaron en el horno a 100°C durante 30 minutos y se pesaron después del lavado. El contenido de humedad se calculó con base en el peso del agua perdida durante el secado, se calculó restando el peso de la muestra después del secado del peso de la muestra antes del secado. El porcentaje de agua perdida del secado se calculó como un porcentaje de la siguiente ecuación:

Peso de la muestra antes del secado – Peso de la muestra después del secado X 100%

Peso de la muestra antes del secado

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Los resultados aparecen en la Tabla 1. Todos los pesos se expresan en gramos.

Tabla 1. Resultados de los guantes de Standard PFC

Muestra No.	Peso antes del secado	Peso después del secado	Diferencia en peso	Porcentaje de agua perdida
1	84.0879	83.8730	0.2149	0.2556
2	84.9364	84.7228	0.2136	0.2515
3	84.8714	84.5871	0.2843	0.3350
4	84.5961	84.3361	0.26	0.3073

Como se aprecia en este ejemplo comparativo, el peso de los guantes después del secado fue inferior al peso de los guantes antes del secado, mostrando que los guantes Standard PFC sin tratar contienen pequeñas cantidades de humedad.

EJEMPLO 2

El contenido de humedad de los guantes que contienen una mezcla de concentración plena de la composición hidratante de la presente invención se midió con el siguiente método. Se preparó una composición hidratante mezclando los ingredientes enumerados en la Tabla 2 abajo.

Composición hidratante

Tabla 2

Material	Cantidad Lote
Agua	75 a 100 L*
Polvo Aloe Vera / Manzanilla	0.1 kg
Ácido cítrico	0.1 kg
Benzoato de sodio	0.1 kg
Glicerol / Glicerina	7.0 kg
Alcohol graso etoxilado / Nonil fenol etoxilado	0.875 kg
Cera de polipropileno ME 43040	5.0 kg
Silicone LE45	2.0 kg
Aroma Nivea	5.5 kg
Hidroxietil celulosa / Carboximetilcelulosa / Goma polisacárida (Xantano)	0.3 kg

*Nota : Completar la solución con agua hasta obtener un volumen de 100 litros.

Unos guantes curados que salen de la máquina (14.000 piezas de guantes talla 7) se lavaron en una lavadora de tambor para un total de dos ciclos de acuerdo con los siguientes parámetros:

Lavado fuera de línea

Medio	Volumen	Guantes (Cantidad)	Tiempo por ciclo	Temperatura
Agua limpia y fresca	1200 litros por lavado en tambor. Dos lavados por ciclo	14.000 piezas por ciclo	34.5 minutos	Ambiente

Luego los guantes lavados se secaron en un horno AMBI™ a una temperatura que varía desde alrededor de 50° hasta alrededor de 55°C a presión ambiente. Se roció una mezcla de concentración plena de la composición hidratante anterior (un volumen de 18 litros) en la secadora después de que una muestra de los guantes (alrededor de 14.000 piezas de guantes talla 7) llevaban unos 25 minutos secando. Luego los guantes se siguieron secando durante alrededor de 3 horas.

Luego los guantes tratados se pesaron, se secaron en el horno a 100°C durante 30 minutos y se pesaron después del secado. Como en el Ejemplo Comparativo 1, cada muestra contenía diez guantes. El contenido de humedad se calculó mediante el mismo método empleado en el Ejemplo Comparativo 1. Los resultados aparecen en la Tabla 3 abajo. Los pesos se expresan en gramos.

Tabla 3. Resultados de los Guantes que contienen una composición de concentración plena

Muestra No.	Peso antes del secado	Peso después del secado	Diferencia en peso	Porcentaje de agua perdida
1	76.0115	75.4251	0.5864	0.7715
2	75.2132	74.5835	0.6297	0.8372

La Tabla 2 muestra que los guantes que contienen una composición de concentración plena contienen cantidades significativamente mayores de humedad (como se aprecia por el porcentaje de pérdida de agua) que los guantes Standard PFC (Ejemplo Comparativo 1.).

EJEMPLO 3

Se repitió el Ejemplo 2 pero únicamente con una composición hidratante al 50%. El volumen de la mezcla fue el mismo (es decir 18 litros) pero la composición hidratante del Ejemplo 2 se diluyó 50/50 con agua.

Los resultados se ilustran en la Tabla 4. Los pesos se expresan en gramos.

Tabla 4. Resultados de los guantes que contienen un 50% de la composición.

Muestra No.	Peso antes del secado	Peso después del	Diferencia en peso	Porcentaje de agua perdida
1	76.0052	75.6772	0.328	0.4315
2	74.8594	74.5576	0.3018	0.4032

La Tabla 4 muestra que aunque solamente se rocíe una solución hidratante al 50% sobre los guantes, la cantidad de humedad en los guantes tratados es dos veces mayor que en el guante sin tratar Standard PFC (Ejemplo Comparativo 1.).

EJEMPLO 4

Este ejemplo muestra la cobertura de la composición de la presente invención como una película en la superficie interna del guante y el porcentaje de hidratantes que permanecen sobre el guante después del proceso de secado. Para efectos de medición, se introdujo ceniza de soda (carbonato sódico) en los 36 litros (Prueba 1) y 18 litros (Prueba 2) de

solución hidratante a una concentración de 200 gramos por litro de solución hidratante. Luego se roció la solución hidratante con la ceniza de soda en la secadora que contenía una muestra (14.000 piezas de guantes talla 7) durante el proceso de secado.

Se tomaron dos juegos de muestras de prueba, cada una compuesta por cuatro piezas de guantes mojados, de la secadora después de girar durante 15 minutos. Se tomaron dos juegos más de muestras de prueba, cada una compuesta por cuatro piezas de guantes secos de la secadora una vez se completó el proceso de secado. Se efectuaron unas pruebas de extracción en toda la superficie del guante en un juego de muestras y en otro juego de muestras únicamente se examinó la extracción en la superficie interna. Cada guante se extrajo con 100 ml de agua desionizada. Los resultados se expresan como el valor promedio de cuatro piezas de guantes.

La cantidad de ceniza de soda en el guante se determinó mediante la siguiente valoración. Se amarró un guante y se introdujo en una botella de extracción que contenía 100ml de agua desionizada. La botella de extracción se colocó sobre una mezcladora aérea y se agitó durante unos 30 minutos. La extracción se cargó en un matraz cónico de 250 ml. Se añadieron tres gotas de fenolftaleína al extracto. Se agregaron 0.1 M de HCL hasta que desapareció el color rosado. Este es el criterio de valoración. Los resultados aparecen en la Tabla 5.

Tabla 5

Prueba	Volumen de hidratantes	Tipo de guante	Cantidad de ceniza de soda que permanece sobre todo el guante por cantidad de ceniza de soda aplicada por guante (%)	Cantidad de ceniza de soda al interior del guante por ceniza de soda en todo el guante (%)

			Guante Mojado (después de girar durante 15 minutos)	Guante Seco (después del ciclo completo)	Guante Mojado (después de girar durante 15 minutos)	Guante Seco (después del ciclo completo)
Prueba 1	36L	Guante de examen Manzanilla/Aloe	43	41	56	63
Prueba 2	18L	Guante de examen Manzanilla/Aloe	24	29	84	67

Los resultados muestran que del total de la mezcla hidratante aplicada en la secadora de tambor, alrededor de un tercio de la mezcla hidratante permaneció sobre los guantes después de completar el proceso de secado. La cobertura de la mezcla hidratante al interior del guante es más o menos la misma que en la superficie exterior, es decir 50% de cada lado. Los resultados también muestran que la mezcla hidratante fue capaz de llegar hasta el borde interno/interior de la punta de los dedos.

Ejemplo 5

El efecto hidratante se determinó utilizando el siguiente método de de evaluación mediante palpación manual. Se examinó un total de 8 guantes de diferentes sub-lotes con una solución hidratante de concentración al 50% y de una solución hidratante de concentración plena. Se lavaron las dos manos de un individuo, se enjuagaron con agua fría y se secaron. Las manos se secaron además con aire mediante un movimiento de manos en el aire durante 30 segundos. Luego los guantes tratados se colocaron sobre la mano y se calentaron durante 10 minutos. Luego se le solicitó al individuo que calificara el efecto hidratante y el aroma de los guantes empleando los siguientes números

- 1 = Ningún efecto hidratante / Ningún aroma de Nivea
- 2 = Efecto hidratante perceptible / Buen aroma de Nivea
- 3 = Buen efecto hidratante / Excelente aroma de Nivea

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Los resultados aparecen en las Tablas 6 y 7.

Tabla 6

Guantes con aroma de Nivea y con una solución hidratante de concentración al 50%

No. Muestra	Efecto hidratante	Nivel aroma	Resultado prueba
1	2	2	Pasó
2	2	2	Pasó
3	2	2	Pasó

Tabla 7

Guantes sin aroma con solución hidratante de concentración plena

No. Muestra.	Efecto hidratante	Nivel aroma	Resultado prueba
1	3	No disponible	Aceptado
2	3	No disponible	Aceptado
3	3	No disponible	Aceptado
4	3	No disponible	Aceptado
5	3	No disponible	Aceptado
6	3	No disponible	Aceptado
7	3	No disponible	Aceptado
8	3	No disponible	Aceptado
9	3	No disponible	Aceptado
10	3	No disponible	Aceptado
11	3	No disponible	Aceptado

Como se aprecia en las Tablas 6 y 7, los guantes tratados con solución hidratante de concentración plena fueron calificados con un buen efecto hidratante. Incluso los guantes tratados con una solución hidratante a una concentración solamente del 50% fueron calificados con la percepción de efecto hidratante.

El uso de los términos "un" y "uno/una" y "el/la" y referentes similares en el contexto de la descripción de la invención (especialmente en el contexto de las siguientes Reivindicaciones) se deberán interpretar como la inclusión tanto del singular como del plural, salvo si se indica en contrario en la presente, o si el contexto indica una clara contradicción. La

inclusión de los rangos de valores en la presente han de servir meramente como un método abreviado para hacer referencias individuales a cada valor separado incluido dentro del rango, salvo si se indica en contrario en la presente, y cada valor separado se incorpora en la especificación como si se hubiera anotado en forma individual en la presente. Todos los métodos descritos en la presente se pueden efectuar en cualquier orden apropiado, salvo si se indica en contrario en la presente o si el contexto indica una clara contradicción. El uso de cualquiera y de todos los ejemplos o de términos de ejemplos (por ejemplo "como") dispuestos en la presente, tiene la finalidad sencillamente de ilustrar la invención mejor y no corresponden a una limitación del ámbito de la invención, salvo si se reivindica en contrario. Ningún término en la especificación se deberá interpretar como la indicación de cualquier elemento no reivindicado como esencial para la práctica de la invención.

En la presente se describen las incorporaciones preferidas de esta invención, incluyendo el mejor modo conocido por los inventores para desarrollar la invención. Por supuesto que las variaciones de estas incorporaciones preferidas serán aparentes para aquellos con destrezas ordinarias en el arte en el momento que lean la anterior descripción. Los inventores esperan que los artesanos con destrezas empleen estas variaciones según sea apropiado, y los inventores esperan que la invención se emplee en otras formas a las descritas específicamente en la presente. Por lo tanto, esta invención incluye todas las modificaciones y los equivalentes del tema enumerado en las reivindicaciones adjuntas a la presente, según lo permiten las leyes aplicables. Adicionalmente cualquier combinación de los elementos descritos arriba en todas las variaciones posibles de las mismas se encuentra comprendida dentro de la invención, salvo si se indica en contrario en la presente, o si el contexto indica una clara contradicción.

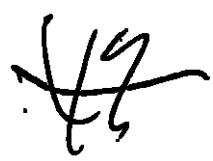
LO QUE SE REIVINDICA ES:

1. Un guante tratado que comprende un guante que contiene una película en las superficies internas del guante, la película compuesta por agua, glicerol y un extracto botánico, donde el agua se encuentra presente en una cantidad que varía desde alrededor de 30 mg hasta alrededor de 90 mg por guante.
2. El guante tratado de la reivindicación 1, donde el extracto botánico se selecciona entre el grupo conformado por manzanilla, aloe vera y combinaciones de los mismos.
3. El guante tratado de la reivindicación 2, donde el extracto botánico es manzanilla.
4. El guante tratado de la reivindicación 2 donde el extracto botánico es aloe vera.
5. El guante tratado de la reivindicación 1, donde la película contiene además un espesante, una cera antibloqueo, un agente hidratante, una fragancia, un conservante y combinaciones de los mismos.
6. El guante tratado de la reivindicación 2, donde el extracto botánico es una combinación de aloe vera y extracto de manzanilla.
7. El guante tratado de la reivindicación 5, donde el espesante se selecciona entre el grupo conformado por carboximetilcelulosa, hidroxietilcelulosa y goma polisacárida (xantano)
8. El guante tratado de la reivindicación 5, donde la cera antibloqueo es cera de polipropileno.
9. El guante tratado de la reivindicación 5, donde el agente hidratante es nonilfenol etoxilado o alcohol graso etoxilado.
10. El guante tratado de la reivindicación 1, donde el guante se fabrica en látex de caucho natural, acrilonitrilo, cloruro de polivinilo, policloropreno, poliisopreno, nitrilo carboxilado, poliuretano, estireno-butadieno y mezclas de látex de cauchos naturales con látex sintéticos.
11. El guante tratado de la reivindicación 5, donde la fragancia es aroma

... de Nivea.

12. El guante tratado de la reivindicación 5, donde el conservante es una combinación de ácido cítrico y benzoato de sodio.
13. Un método para aplicar una película en las superficies internas de un guante que comprende:
 - (a) Lavar un guante curado;
 - (b) Secar el guante lavado del paso (a) en una secadora de tambor a una temperatura de alrededor de 48 hasta alrededor de 55°C;
 - (c) Rociar una solución en la secadora de tambor mientras el guante lavado se está secando y está parcialmente mojado;
 - (d) Secar el guante lavado hasta que se forma una película en las superficies internas del guante lavado.
14. El método de la reivindicación 13, donde la solución comprende agua, glicerol y un extracto botánico.
15. El método de la reivindicación 14, donde la solución comprende además un espesante, una cera antibloqueo, un agente hidratante, una fragancia, una emulsión de silicona y un conservante.
16. El método de la reivindicación 14, donde el extracto botánico se selecciona entre el grupo conformado por manzanilla, aloe vera, jojoba, extracto de aloe barfadenis, extracto de pasionaria, extracto de cohombro, extracto de hoja de consuelda, saponaria, extracto de officinalis, extracto de mirra, extracto de eucalipto, extracto de alga marina y combinaciones de los mismos.
17. El método de la reivindicación 16, donde el extracto botánico es manzanilla.
18. El método de la reivindicación 16 donde el extracto botánico es aloe vera.
19. El método de la reivindicación 16 donde el extracto botánico es una combinación de aloe vera y extracto de manzanilla.
20. El método de la reivindicación 19 donde la solución comprende además un espesante, una cera antibloqueo, un agente hidratante y un conservante.

21. Una solución que comprende agua, glicerol, manzanilla, un espesante, una cera antibloqueo de polipropileno, un agente hidratante, una fragancia, una emulsión de silicona y un conservante.
22. La solución de la reivindicación 21 que comprende además aloe vera.
23. La solución de la reivindicación 21, donde la emulsión de silicona se encuentra presente en una cantidad que varía desde alrededor de 1.0 hasta alrededor de 2.0 % en peso, con base en el peso total de la solución.
24. La solución de la reivindicación 21, donde el agua se encuentra presente en una cantidad que varía desde alrededor de 85 hasta alrededor de 95 % en peso con base en el peso total de la solución.
25. La solución de la reivindicación 21, donde el glicerol se encuentra presente en una cantidad que varía desde alrededor de 1 hasta alrededor de 7 % en peso con base en el peso total de la solución.
26. La solución de la reivindicación 21, donde la manzanilla se encuentra presente en una cantidad que varía desde alrededor de 0.05 hasta alrededor de 0.5 % en peso con base en el peso total de la solución.
27. La solución de la reivindicación 21, donde el espesante se encuentra presente en una cantidad que varía desde alrededor de 0.1 hasta alrededor de 0.3 % en peso con base en el peso total de la solución.
28. La solución de la reivindicación 21, donde la cera antibloqueo de polipropileno se encuentra presente en una cantidad que varía desde alrededor de 2 hasta alrededor de 5 % en peso con base en el peso total de la solución.
29. La solución de la reivindicación 21, donde el agente hidratantes se encuentra presente en una cantidad que varía desde alrededor de 0.3 hasta alrededor de 0.9 % en peso con base en el peso total de la solución.
30. La solución de la reivindicación 21, donde la fragancia de Nivea se encuentra presente en una cantidad que varía desde alrededor de 2 hasta alrededor de 8 % en peso con base en el peso total de la solución.

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31. Un método para hidratar la mano de un humano que comprende llevar puesto un guante que tiene una película en las superficies internas del guante donde la película comprende agua, glicerol y un extracto botánico, y donde el agua se encuentra presente en una cantidad que varía desde alrededor de 30 mg hasta alrededor de 90 mg por guante.
 32. El método de la reivindicación 31 donde el extracto botánico es manzanilla.
 33. El método de la reivindicación 31, donde el extracto botánico es aloe vera.
 34. El método de la reivindicación 31, donde el extracto botánico es una combinación de manzanilla y aloe vera.
 35. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 13.
 36. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 14.
 37. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 15.
 38. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 16.
 39. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 17.
 40. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 18.
 41. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 19.
 42. Un guante hidratante fabricado mediante el proceso de acuerdo con la reivindicación 20.

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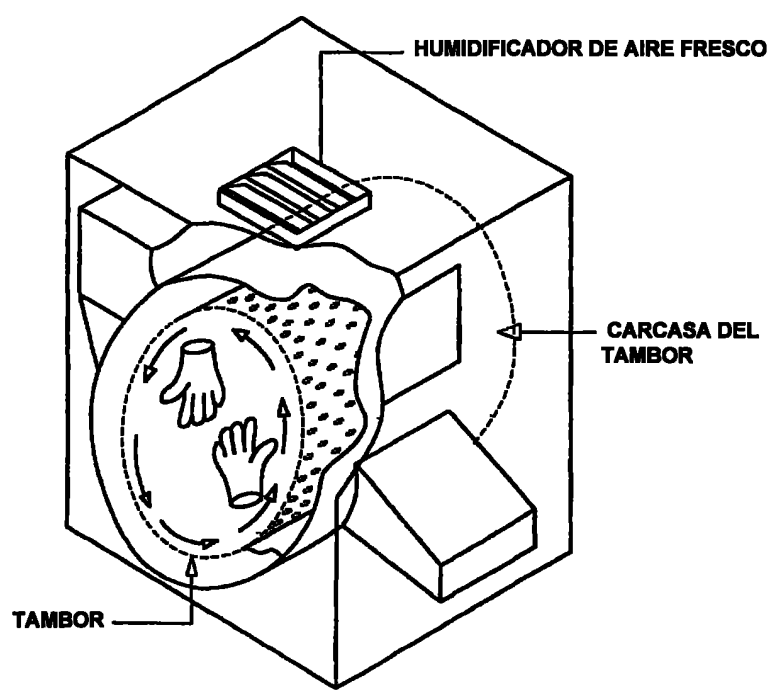
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FIG. 1



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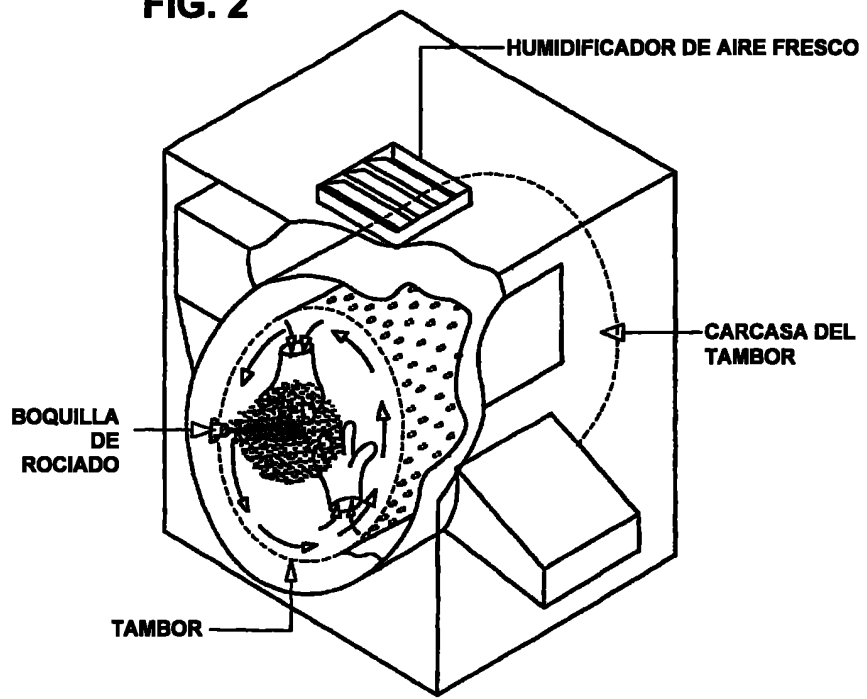
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FIG. 2



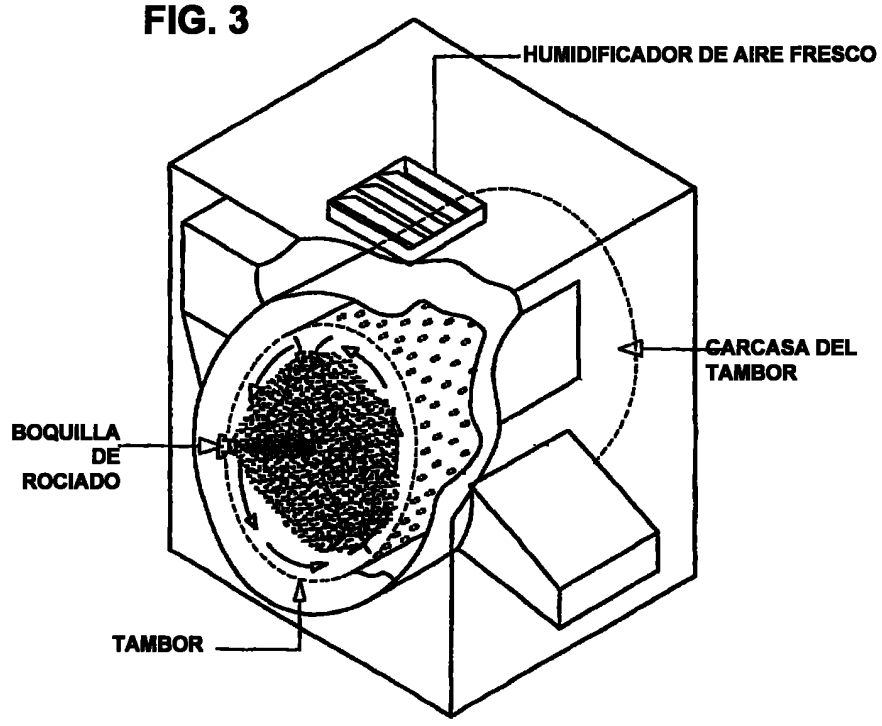
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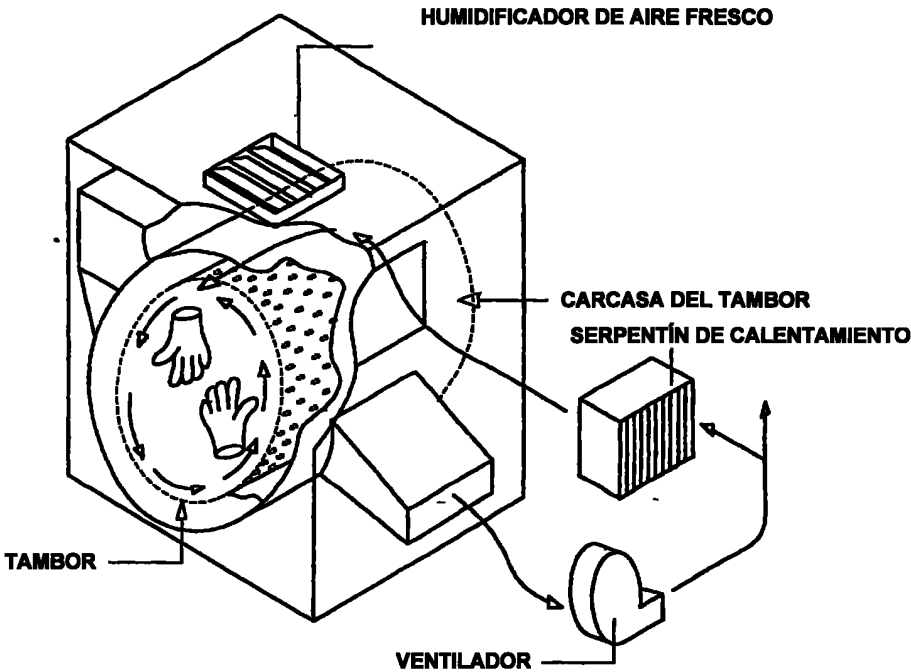
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FIG. 3



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FIG. 4



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38853

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 25/34
US CL : 424/402, 443

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)
U.S. : 424/402, 443

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,274,154 B1 (Belle Chou) 14 August 2001, see abstract, column 2, lines 57-67, bridging column 3, lines 1-67, bridging column 4, lines 1-25.	1-42

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" documents defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" documents 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" documents referring to an oral disclosure, use, exhibition or other means

"P" documents published prior to the international filing date but later than the priority date claimed

"T"

later documents published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"Z"

document member of the same patent family

Date of the actual completion of the international search

21 April 2004 (21.04.2004)

Date of mailing of the international search report

01 JUN 2004

Name and mailing address of the ISA/US

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P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

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PATENT COOPERATION TREATY

AU 97.254

49

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

CARRERA, George, M., Jr.
Gardner Carton & Douglas LLP
191 N. Wacker Drive
Suite 3700
Chicago, IL 60606-1688
United States of America

Date of mailing (day/month/year)

26 May 2006 (26.05.2006)

Applicant's or agent's file reference

P1882WO

IMPORTANT NOTIFICATION

International application No.

PCT/US2003/038853

International filing date (day/month/year)

08 December 2003 (08.12.2003)

1. The following indications appeared on record concerning:



the applicant



the inventor



the agent



the common representative

Name and Address

ANSELL HEALTHCARE PRODUCTS, INC.
200 Schulz Drive
Red Bank, NJ 07701
United States of America

State of Nationality

US

State of Residence

US

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:



the person



the name



the address



the nationality



the residence

Name and Address

ANSELL HEALTHCARE PRODUCTS LLC
200 Schulz Drive
Red Bank, NJ 07701
United States of America

State of Nationality

US

State of Residence

US

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:



the receiving Office



the International Searching Authority



the International Preliminary Examining Authority



the designated Offices concerned



the elected Offices concerned



other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 338.70.10

Authorized officer

Arounni WETZLER (Fax 338 7010)

Telephone No. (41-22) 338 8388

IN THE INTERNATIONAL BUREAU OF WIPO

International application No. PCT/US03/38853	International filing date (<i>day/month/year</i>) 08 December 2003 (08.12.2003)	(Earliest) Priority date (<i>day/month/year</i>) 17 December 2002 (17.12.2002)
Title of invention CAMOMILE/ALOE VERA TREATED GLOVE		
Applicant(s) Ansell Healthcare Products, Inc		

REQUEST UNDER PCT RULE 92^{bis}

International Bureau of WIPO
34, Chemin des Colombettes
1211 Geneva 120
Switzerland

VIA FAX: 4122 740 1435

Dear Sir or Madam:

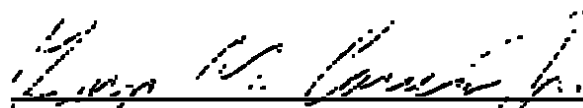
Please amend the Applicant's name to read as follows:

ANSELL HEALTHCARE PRODUCTS LLC

A copy of the Certificate of Conversion is enclosed herewith. Adjustment of the records of the International Bureau is respectfully requested.

Respectfully submitted,

By:


George M. Carrera, Jr., Reg. No. 50,317
Agent for the Applicant
GARDNER CARTON & DOUGLAS LLP
191 N. Wacker Drive, Suite 3700
Chicago, Illinois 60606
Tel: (312) 569-1000
Fax: (312) 569-3000

Date: May 2, 2005

Delaware

PAGE 1

The First State

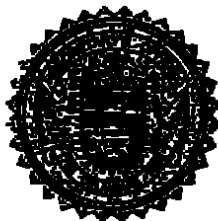
I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "ANSELL HEALTHCARE PRODUCTS INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "ANSELL HEALTHCARE PRODUCTS INC." TO "ANSELL HEALTHCARE PRODUCTS LLC", FILED IN THIS OFFICE ON THE TWENTY-FIRST DAY OF JUNE, A.D. 2004, AT 3:26 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE THIRTIETH DAY OF JUNE, A.D. 2004, AT 11:55 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

0928190 8100V

040456180



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3185377

DATE: 06-21-04

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**CERTIFICATE OF CONVERSION
OF
ANSELL HEALTHCARE PRODUCTS INC.
TO
ANSELL HEALTHCARE PRODUCTS LLC**

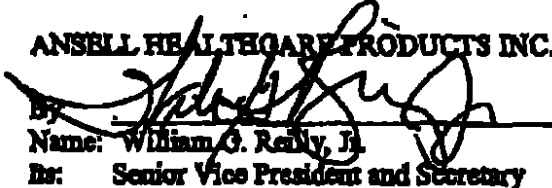
Pursuant to Section 266 of the Delaware General Corporation Law:

1. The name of the corporation is Ansell Healthcare Products Inc.
2. The original certificate of incorporation of Ansell Healthcare Products Inc. was filed with the Secretary of State of the State of Delaware on December 11, 1981.
3. The name of the limited liability company to which Ansell Healthcare Products Inc. shall be converted is:

Ansell Healthcare Products LLC
4. The conversion of Ansell Healthcare Products Inc. to Ansell Healthcare Products LLC has been approved by the Board of Directors and the shareholders of Ansell Healthcare Products Inc., in accordance with the provisions of Section 266 of the Delaware General Corporation Law.
5. The conversion shall be effective at 11:55 p.m. on June 30, 2004.

In Witness Whereof, the undersigned has executed this Certificate of Conversion of Ansell Healthcare Products Inc. this 21 day of June, 2004.

ANSELL HEALTHCARE PRODUCTS INC.

By: 
Name: William G. Reilly, Jr.

As: Senior Vice President and Secretary

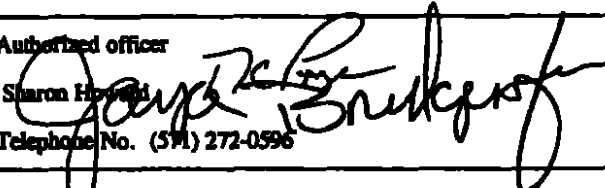
State of Delaware
Secretary of State
Division of Corporations
Delivered 04:00 PM 06/21/2004
FILED 03:28 PM 06/21/2004
SRV 040456180 - 0928190 FILE

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P1862WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US03/38853	International filing date (day/month/year) 08 December 2003 (08.12.2003)	Priority date (day/month/year) 17 December 2002 (17.12.2002)
International Patent Classification (IPC) or national classification and IPC IPC(7): A01N 25/34 and US Cl.: 424/402, 443		
Applicant ANSELL HEALTHCARE PRODUCTS, INC.		
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet. ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of <u> </u> sheets. 3. This report contains indications relating to the following items: I ☒ Basis of the report II ☐ Priority III ☐ Non-establishment of report with regard to novelty, inventive step and industrial applicability IV ☐ Lack of unity of invention V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI ☐ Certain documents cited VII ☐ Certain defects in the international application VIII ☐ Certain observations on the international application		
Date of submission of the demand 10 June 2004 (10.06.2004)	Date of completion of this report 20 September 2004 (20.09.2004)	
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1430 Alexandria, Virginia 22313-1430 Facsimile No. (703) 305-3230	Authorized officer  Sharon Howard Telephone No. (571) 272-0596	

Form PCT/IPEA/409 (cover sheet)(July 1998)

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed.
- ☒ the description:
pages 1-11 as originally filed
pages NONE filed with the demand
pages NONE filed with the letter of _____.
- ☒ the claims:
pages 12-14 as originally filed
pages NONE as amended (together with any statement) under Article 19
pages NONE filed with the demand
pages NONE filed with the letter of _____.
- ☒ the drawings:
pages 1-4 as originally filed
pages NONE filed with the demand
pages NONE filed with the letter of _____.
- ☐ the sequence listing part of the description:
pages NONE as originally filed
pages NONE filed with the demand
pages NONE filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/fig. NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

V. Reasoned statement under Rule 66.2(a)(II) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. STATEMENT**

Novelty (N)	Claims <u>1-42</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-42</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-42</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-42 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the teachings of a glove containing a film on the interior surfaces of the glove, wherein the film comprises water, glycerol and a botanical extract, and water is present in an amount ranging from about 30 mg to about 90 mg per glove. The prior art also does not teach or fairly suggest the teachings of the film further comprising a thickener, an antilocking wax, a wetting agent, a fragrance, a preservative. The prior art does not teach or fairly suggest a method of applying a film to the inside surfaces of a glove nor a method of moisturizing a hand of a human comprising wearing a glove that has a film on inside surfaces of the glove wherein the film comprises water, glycerol, and a botanical extract, and wherein water is present in an amount ranging from about 30 mg to 90 mg per glove.

Claims 1-42 meet the criteria set out in PCT Article 33(4), and thus has industrial applicability because the subject matter claimed can be made or used in industry.

TRATADO DE COOPERACIÓN EN MATERIA DE PATENTES

PCT

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INFORME DE EXAMEN PRELIMINAR INTERNACIONAL SOBRE PATENTABILIDAD (PCT Artículo 36 y Regla 70)

No. de Expediente del Solicitante o Apoderado P1862WO	PROCEDIMIENTO POSTERIOR Consultar notificación de transmisión de Informe de Examen Preliminar Internacional (Formato PCT/IPEA416)	
No. Solicitud Internacional PCT/US03/38853	Fecha Internacional de Presentación (día/mes/año) 8 de diciembre de 2003 (08.12.2003)	Fecha de Prioridad (día/mes/año) 17 de diciembre de 2002 (17/12/2002)
Clasificación Internacional de Patente (IPC) o Clasificación Nacional e IPC IPC(7): A01N 25/34 y US Cl.: 424/402, 443		
Solicitante ANSELL HEATHCARE PRODUCTS, INC		

1. Este informe de examen preliminar internacional fue elaborado por esta Oficina Encargada del Examen Preliminar Internacional y se envía al solicitante según Artículo 36.

2. Este INFORME comprende un total de 3 hojas, inclusive esta portada

☐ Este informe también comprende ANEXOS, es decir hojas con la descripción, las reivindicaciones y los dibujos que fueron corregidos y que son la base de este informe y para las hojas que contienen las rectificaciones presentadas ante esta Autoridad (consultar regla 70.16 y la Sección 607 de las Instrucciones Administrativas bajo el PCT).

Estos anexos constan de un total de ___ hojas.

3. Este informe contiene indicaciones relacionadas con los siguientes puntos:

- I ☒ Base del Informe
- II ☐ Prioridad
- III ☐ Sin elaboración de un dictamen sobre novedad, actividad inventiva y posibilidad de aplicación industrial
- IV ☐ Falta de unidad de la invención
- V ☒ Comprobación justificada según Artículo 35(2) con respecto a la novedad, la actividad inventiva y la posibilidad de aplicación industrial; documentos y explicaciones sustentando esta comprobación
- VI ☐ Ciertas documentos enumerados
- VII ☐ Ciertas deficiencias del registro internacional
- VIII ☐ Ciertas observaciones relacionadas con la solicitud internacional

Fecha de presentación de la petición

10 de junio 2004 (10.06.2004)

Fecha de la conclusión de este informe

20 de septiembre 2004 (20.09.2004)

Nombre y dirección postal de la IPEA/US

Mail Stop PCT, Attn: IPEA/US
Comisionado de Patentes
P.O. Box 1450
Alexandria, Virginia 223 13-1450

Facsimil No. (703) 305-3230

Empleado Autorizado

Sharon Howard

Teléfono No. (571) 272-0596



INFORME DE EXAMEN PRELIMINAR
INTERNACIONAL

Solicitud Internacional No
PCT/US03/38853

I. Bases del Informe

1. Con respecto a los elementos de la solicitud internacional *

- ☒ La solicitud internacional como se presentó originalmente
- ☒ La descripción:
páginas 1-11, como se presentaron originalmente
páginas NINGUNA, presentadas con la petición
páginas NINGUNA, presentadas con la carta de
- ☒ Las reivindicaciones:
páginas 12-14, como se presentaron originalmente
páginas NINGUNA, según se modificaron (junto con cualquier declaración) bajo Artículo 19
páginas NINGUNA, presentadas con la petición
páginas NINGUNA, presentadas con la carta de
- ☒ Los dibujos:
páginas 1-4, como se presentaron originalmente
páginas NINGUNA, presentadas con la petición
páginas NINGUNA, presentadas con la carta de
- ☐ La parte de listado de secuencias de la descripción:
páginas NINGUNA, como se presentaron originalmente
páginas NINGUNA, presentadas con la petición
páginas NINGUNA, presentadas con la carta de

2. En lo concerniente al idioma, todos los elementos indicados más arriba estuvieron a disposición de esta Administración o le fueron enviados en el idioma en el cual se radicó la solicitud internacional, salvo indicación en contrario consignada bajo este punto. Estos elementos estuvieron a disposición de esta Administración o le fueron enviados en el idioma siguiente: , que es:

- ☐ el idioma de una traducción enviada para efectos de la búsqueda internacional (según la regla 23.1 (b)).
- ☐ el idioma de publicación de la solicitud internacional (según la regla 48.3 (b)).
- ☐ el idioma de la traducción enviada para efectos del examen preliminar internacional (según la regla 55.2 y/o 55.3).

3. En lo que concierne a cualquier secuencia de nucleótidos y/o aminoácidos divulgada en la solicitud internacional, el examen preliminar internacional se llevó a cabo sobre la base del listado de secuencias:

- ☐ contenido en la solicitud internacional, por escrito.
- ☐ presentado con la solicitud internacional, en formato de lectura por computador.
- ☐ remitido posteriormente a la administración, por escrito.
- ☐ remitido posteriormente a la administración, en formato de lectura por computador.
- ☐ se ha rendido la declaración, según la cual el listado de secuencias por escrito y suministrado posteriormente no va más allá de la divulgación hecha en la solicitud tal como se radicó.
- ☐ se ha rendido la declaración, según la cual las informaciones registradas en formato de lectura por computador son idénticas a las de los listados de secuencias, presentados por escrito.

4. ☒ Las modificaciones han acarreado la anulación:

- ☒ La descripción, páginas NINGUNA
- ☒ Las reivindicaciones, Nos. NINGUNA
- ☒ Los dibujos, páginas/fig NINGUNA

5. ☐ El presente informe se preparó sin tener en cuenta (algunas de) las modificaciones, que se consideraron que van más allá de la exposición de la invención (regla 70.2 (c)).**

* En este informe se hace referencia a las hojas intercambiables suministradas a la Oficina receptora atendiendo una invitación bajo el Artículo 14 como "presentadas originalmente" y no se adjuntan a este informe puesto que no contienen modificaciones (Reglas 70.16 y 70.17).

** (Toda hoja intercambiable que incluya modificaciones de esta índole debe indicarse en el punto 1 y anexarse al presente informe.)

**INFORME DE EXAMEN PRELIMINAR
INTERNACIONAL**

Solicitud Internacional No PCT/RUS03/38853

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V. Declaración motivada bajo Artículo 35(2) en cuanto a la novedad, la actividad inventiva y la posibilidad de aplicación Industrial; citas y explicaciones sustentando esta declaración

1. Declaración

Novedad (N)	Reivindicaciones 1-42	SI
	Reivindicaciones <u>NINGUNA</u>	NO
Actividad Inventiva (IS)	Reivindicaciones 1-42	SI
	Reivindicaciones <u>NINGUNA</u>	NO
Posibilidad de Aplicación Industrial (IA)	Reivindicaciones 1-42	SI
	Reivindicaciones <u>NINGUNA</u>	NO

2. CITAS Y EXPLICACIONES

Las reivindicaciones 1-42 cumplen los criterios establecidos en el Artículo 33(2)-(3) del PCT, porque el arte previo no enseña ni sugiere medianamente las enseñanzas de un guante que contiene una película en las superficies internas del guante, donde la película comprende agua, glicerol y un extracto botánico, y el agua se encuentra presente en una cantidad que varía entre alrededor de 30 mg hasta alrededor de 90 mg por guante. El arte previo tampoco enseña ni sugiere medianamente las enseñanzas de la película que comprende además un espesante, una cera antibloqueo, un agente hidratante, una fragancia, un conservante. El arte previo tampoco enseña ni sugiere medianamente las enseñanzas de un método para aplicar una película a las superficies internas de un guante ni un método para hidratar una mano de un humano que comprende llevar puesto un guante que tiene una película en las superficies internas del guante donde la película comprende agua, glicerol y un extracto botánico y donde el agua se encuentra presente en una cantidad que varía de alrededor 30 mg a 90 mg por guante.

Las reivindicaciones 1-42 cumplen los criterios establecidos en el Artículo 33(4) del PCT y por lo tanto tienen una posibilidad de aplicación Industrial puesto que el tema materia de la reivindicación se puede fabricar o utilizar en la Industria.

PATENT COOPERATION TREATY

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From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:
GEORGE M. CARRERA, JR.
GARDNER CARTON & DOUGLAS LLP
191 N. WACKER DRIVE
SUITE 3700
CHICAGO, ILLINOIS 60606-1698

NOTIFICATION OF RECEIPT OF DEMAND BY COMPETENT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

(PCT Rules 59.3(e) and 61.1(b), first sentence
and Administrative Instructions, Section 601(a))

Date of mailing
(day/month/year)

27 JUL 2004

Applicant's or agent's file reference
P1862WO

IMPORTANT NOTIFICATION

International application No.
PCT/US03/38853

International filing date (day/month/year)
08 Dec 2003

Priority date (day/month/year)
17 Dec 2002

Applicant
ANSELL HEATHCARE PRODUCTS, INC.

1. The applicant is hereby notified that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application:

10 JUN 2004

2. That date of receipt is:

- ☒ the actual date of receipt of the demand by this Authority (Rule 61.1(b)).
- ☐ the actual date of receipt of the demand on behalf of this Authority (Rule 59.3(e)).
- ☐ the date on which this Authority has, in response to the invitation to correct defects in the demand (Form PCT/IPEA/404), received the required corrections.

3. ☐ **ATTENTION:** That date of receipt is **AFTER** the expiration of 19 months from the priority date. Consequently, the election(s) made in the demand does (do) not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22). For details, see the *PCT Applicant's Guide*, Volume II.

- ☐ *If applicable:* This notification confirms the information given by telephone, facsimile transmission or in person on:

4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.

Name and mailing address of the IPEA/
Mail Stop PCT, Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450

Authorized officer
Nisa Gilchrist-Jones

Facsimile No. 703-305-3230

Telephone No. 703-305-6107

PC

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

F. Living Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(If desired) (12 characters maximum) P1862WO

Box No. I TITLE OF INVENTION

CAMOMILE/ALOE VERA TREATED GLOVE

Box No. II APPLICANT

☐ This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ANSELL HEALTHCARE PRODUCTS, INC.
200 Schulz Drive
Red Bank, NJ 07701
United States of America

Telephone No.
732 345-5303Facsimile No.
732 219-5114Teleprinter No.
n/aApplicant's registration No. with the Office
n/aState (that is, country) of nationality:
USState (that is, country) of residence:
US

This person is applicant for the purposes of: ☒ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

LOO, LIONG YU
No. 87 Persiaran Sari 28
Taman Cempaka 31400
Ipoh, Perak
Malaysia

This person is:

☐ applicant only☐ applicant and inventor☒ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

☒ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☒ agent ☐ common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

CARRERA, JR., GEORGE M.
GARDNER CARTON & DOUGLAS LLP
191 N. Wacker Drive
Suite 3700
Chicago, IL 60606-1698
United States of America

Telephone No.
(312) 569-1000Facsimile No.
(312) 569-3000Teleprinter No.
n/aAgent's registration No. with the Office
50,317

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

MENG, LAI HEE
No. 40, Taman Desa Baru
753 Melaka
Malaysia

This person is:

- ☐ applicant only
☐ applicant and inventor
☒ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

ZAIN, NOORZANITA BINTI MUHAMMAD
No. 72, Manal Jaya
17500 Tanah Merah, Kelantan
Malaysia

This person is:

- ☐ applicant only
☐ applicant and inventor
☒ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

KASSIM, ADELI
No. 12, Jalan Seri Aman1
Taman Muzaffar Syah
Ayer Keroh 75450 Melaka
Malaysia

This person is:

- ☐ applicant only
☐ applicant and inventor
☒ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

This person is:

- ☐ applicant only
☐ applicant and inventor
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States☐ all designated States except the United States of America☐ the United States of America only☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No.V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- ☒ **AP** ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)
- ☒ **EA** Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP** European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA** OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | | |
|--|---|--|
| ☒ AE United Arab Emirates | ☒ HR Croatia | ☒ OM Oman |
| ☒ AG Antigua and Barbuda | ☒ HU Hungary | ☒ PG Papua New Guinea |
| ☒ AL Albania | ☒ ID Indonesia | ☒ PH Philippines |
| ☒ AM Armenia | ☒ IL Israel | ☒ PL Poland |
| ☒ AT Austria | ☒ IN India | ☒ PT Portugal |
| ☒ AU Australia | ☒ IS Iceland | ☒ RO Romania |
| ☒ AZ Azerbaijan | ☒ JP Japan | ☒ RU Russian Federation |
| ☒ BA Bosnia and Herzegovina | ☒ KE Kenya | ☒ SC Seychelles |
| ☒ BB Barbados | ☒ KG Kyrgyzstan | ☒ SD Sudan |
| ☒ BG Bulgaria | ☒ KP Democratic People's Republic of Korea | ☒ SE Sweden |
| ☒ BR Brazil | ☒ KR Republic of Korea | ☒ SG Singapore |
| ☒ BY Belarus | ☒ KZ Kazakhstan | ☒ SK Slovakia |
| ☒ BZ Belize | ☒ LC Saint Lucia | ☒ SL Sierra Leone |
| ☒ CA Canada | ☒ LK Sri Lanka | ☒ SY Syrian Arab Republic |
| ☒ CH & LI Switzerland and Liechtenstein | ☒ LR Liberia | ☒ TJ Tajikistan |
| ☒ CN China | ☒ LS Lesotho | ☒ TM Turkmenistan |
| ☒ CO Colombia | ☒ LT Lithuania | ☒ TN Tunisia |
| ☒ CR Costa Rica | ☒ LU Luxembourg | ☒ TR Turkey |
| ☒ CU Cuba | ☒ LV Latvia | ☒ TT Trinidad and Tobago |
| ☒ CZ Czech Republic | ☒ MA Morocco | ☒ TZ United Republic of Tanzania |
| ☒ DE Germany | ☒ MD Republic of Moldova | ☒ UA Ukraine |
| ☒ DK Denmark | ☒ MG Madagascar | ☒ UG Uganda |
| ☒ DM Dominica | ☒ MK The former Yugoslav Republic of Macedonia | ☐ US United States of America |
| ☒ DZ Algeria | ☒ MN Mongolia | ☒ UZ Uzbekistan |
| ☒ EC Ecuador | ☒ MW Malawi | ☒ VC Saint Vincent and the Grenadines |
| ☒ EE Estonia | ☒ MX Mexico | ☒ VN Viet Nam |
| ☒ ES Spain | ☒ MZ Mozambique | ☒ YU Serbia and Montenegro |
| ☒ FI Finland | ☒ NI Nicaragua | ☒ ZA South Africa |
| ☒ GB United Kingdom | ☒ NO Norway | ☒ ZM Zambia |
| ☒ GD Grenada | ☒ NZ New Zealand | ☒ ZW Zimbabwe |
| ☒ GE Georgia | | |
| ☒ GH Ghana | | |
| ☒ GM Gambia | | |

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:

- ☒ **BW** Botswana ☒ **EG** Egypt ☐

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box
If the Supplemental Box is not used, this sheet should not be included in the request.

1. If, in any of the Boxes, except Boxes Nos I'III(i) in (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No. ..." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:

(i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;

(ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;

(iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;

(iv) if, in addition to the agent(s) indicated in Box No. II, there are further agents: in such case, write "Continuation of Box No. II" and indicate for each further agent the same type of information as required in Box No. II;

(v) if, in Box No. I, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. I, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. I" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;

(vi) if, in Box No. I', there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. I'" and indicate for each additional earlier application the same type of information as required in Box No. I'.

2. If, with regard to the precautionary designation statement contained in Box No. I', the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

CONTINUATION OF BOX IV:

HAMPTON, Phillip G., II (Reg. No. 30,842)
YOUNG, Richard W. (Reg. No. 30,706)
RUPP, Brian C. (Reg. No. 35,665)
BELUSH, Thomas A. (Reg. No. 37,090)
FRANCISSEN, Vernon W. (Reg. No. 41,762)
GEOFFREY, Michael M. (Reg. No. 41,775)
WULFF, Richard A. (Reg. No. 42,238)
AUGUSTINE, Andrea (Reg. No. 46,528)
BROWN, Mary Elizabeth (Reg. No. 46,579)
OSTERHOFF, Michael R. (Reg. No. 46,973)
FREY, David A. (Reg. No. 43,618)
OOSTERBAAN, Lori A. (Reg. No. 53,416)
CYHAN, Adrian R. (Reg. No. P54,576)

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Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 17 December 2002 (17.12.02)	10/321,897	US		
item (2)				
item (3)				
item (4)				
item (5)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☒ all items
 ☐ item (1)
 ☐ item (2)
 ☐ item (3)
 ☐ item (4)
 ☐ item (5)
 ☐ other, see Supplemental Box

* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)).

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA/ US.....

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date: (day/month/year)

Number

Country (or regional Office)

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of
declarations

- | | | |
|---|--|---|
| ☐ Box No. VIII (i) | Declaration as to the identity of the inventor | : |
| ☐ Box No. VIII (ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | : |
| ☐ Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| ☐ Box No. VIII (iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | : |
| ☐ Box No. VIII (v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | : |

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Box No. IX CHECK LIST: LANGUAGE OF FILING

This international application contains:

(a) In paper form, the following number of sheets:

request (including declaration sheets) : 6

description (excluding sequence listings and/or tables related thereto) : 11

claims : 3

abstract : 1

drawings : 4

Sub-total number of sheets : 25

sequence listings :

tables related thereto :

(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below)

Total number of sheets : 25

(b) ☐ only in computer readable form (Section 801(a)(i))(i) ☐ sequence listings(ii) ☐ tables related thereto(c) ☐ also in computer readable form (Section 801(a)(ii))(i) ☐ sequence listings(ii) ☐ tables related thereto

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the

☐ sequence listings:☐ tables related thereto:

(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)

This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):

- | | | |
|---|---|---|
| 1. ☒ fee calculation sheet | : | 1 |
| 2. ☒ original separate power of attorney | : | 1 |
| 3. ☐ original general power of attorney | : | |
| 4. ☐ copy of general power of attorney; reference number, if any: | : | |
| 5. ☐ statement explaining lack of signature | : | |
| 6. ☐ priority document(s) identified in Box No. VI as item(s): | : | |
| 7. ☐ translation of international application into (language): | : | |
| 8. ☐ separate indications concerning deposited microorganism or other biological material | : | |
| 9. ☐ sequence listings in computer readable form (Indicate type and number of carriers) | : | |
| (i) ☐ copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) | : | |
| (ii) ☐ (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter | : | |
| (iii) ☐ together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left | : | |
| 10. ☐ tables in computer readable form related to sequence listings (Indicate type and number of carriers) | : | |
| (i) ☐ copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application) | : | |
| (ii) ☐ (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) | : | |
| (iii) ☐ together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column | : | |
| 11. ☒ other (specify): Return Post Card, Transmittal Letter | : | |

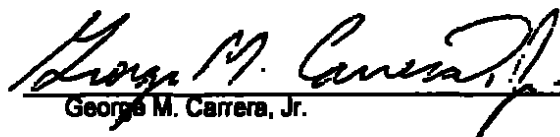
Figure of the drawings which should accompany the abstract: 1

Language of filing of the international application:

English

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).



George M. Carrera, Jr.

For receiving Office use only

1. Date of actual receipt of the purported international application:

3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:

4. Date of timely receipt of the required corrections under PCT Article 11(2):

5. International Searching Authority (if two or more are competent): ISA/

6. ☐ Transmittal of search copy delayed until search fee is paid

2. Drawings:

☐ received:☐ not received:

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ US

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

For International Preliminary Examining Authority use only			
Identification of IPEA		Date of receipt of DEMAND	
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference P1882WO	
International application No. PCT/US2003/038853	International filing date (day/month/year) 8 December 2003 (08.12.2003)	(Earliest) Priority date (day/month/year) 17 December 2002 (17.12.2002)	
Title of invention CAMOMILE/ALOE VERA TREATED GLOVE			
Box No. II APPLICANT(S)			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) ANSELL HEALTHCARE PRODUCTS, INC. 200 Schulz Drive Red Bank, NJ 07701 United States of America		Telephone No. 732 345-5303	
		Facsimile No. 732 219-5114	
		Teleprinter No.	
		Applicant's registration No. with the Office	
State (that is, country) of nationality: US		State (that is, country) of residence: US	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)			
State (that is, country) of nationality:		State (that is, country) of residence:	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)			
State (that is, country) of nationality:		State (that is, country) of residence:	
☐ Further applicants are indicated on a continuation sheet.			

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCEThe following person is ☒ agent ☐ common representativeand ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.Name and address: (Family name followed by given name; for a legal entity, full official designation.
The address must include postal code and name of country.)CARRERA, Jr., George M.
GARDNER CARTON & DOUGLAS LLP
191 N. Wacker Drive, Suite 3700
Chicago, IL 60606-1698
United States of America

Telephone No.

312 569-1000

Facsimile No.

312 569-3000

Teleprinter No.

Agent's registration No. with the Office

50,317

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION****Statement concerning amendments:***

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filedthe description ☒ as originally filed
☐ as amended under Article 34the claims ☒ as originally filed
☐ as amended under Article 19 (together with any accompanying statement)
☐ as amended under Article 34the drawings ☒ as originally filed
☐ as amended under Article 342. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.3. ☐ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of the applicable time limit under Rule 69.1(d).4. ☐ The applicant expressly wishes the international preliminary examination to start earlier than at the expiration of the applicable time limit under Rule 54bis.1(a).

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: English☒ which is the language in which the international application was filed.☐ which is the language of a translation furnished for the purposes of international search.☐ which is the language of publication of the international application.☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.**Box No. V ELECTION OF STATES**

The filing of this demand constitutes the election of all Contracting States which are designated and are bound by Chapter II of the PCT.

Box No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:

- | | | |
|--|---|--------|
| 1. translation of international application | : | sheets |
| 2. amendments under Article 34 | : | sheets |
| 3. copy (or, where required, translation) of amendments under Article 19 | : | sheets |
| 4. copy (or, where required, translation) of statement under Article 19 | : | sheets |
| 5. letter | : | sheets |
| 6. other (specify) | : | sheets |

For International Preliminary Examining Authority use only
received not received

- | | |
|--------------------------|--------------------------|
| ☐ | ☐ |
| ☐ | ☐ |
| ☐ | ☐ |
| ☐ | ☐ |
| ☐ | ☐ |
| ☐ | ☐ |

The demand is also accompanied by the item(s) marked below:

- | | |
|--|--|
| 1. ☒ fee calculation sheet | 5. ☐ statement explaining lack of signature |
| 2. ☐ original separate power of attorney | 6. ☐ sequence listing in computer readable form |
| 3. ☐ original general power of attorney | 7. ☐ tables in computer readable form related to a sequence listing |
| 4. ☐ copy of general power of attorney; reference number, if any: | 8. ☐ other (specify): |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).


George M. Carrera, Jr.

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the time limit of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

6. ☐ The date of receipt of the demand is AFTER the expiration of the time limit under Rule 54bis.1(a) and item 7 or 8, below, does not apply.

7. ☐ The date of receipt of the demand is WITHIN the time limit under Rule 54bis.1(a) as extended by virtue of Rule 80.5.

8. ☐ Although the date of receipt of the demand is after the expiration of the time limit under Rule 54bis.1(a), the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

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ATTESTATION

I, Mark J. Sweetin, do hereby attest that the attached is a true and correct copy of the original which I have seen of the Assignment of U.S. Patent Application No. 10/321,897, filed December 17, 2002, from Liong Yu Loo, Lai Hee Meng, Noorzanita Binti Muhammad Zain, and Adeli Kassim to Ansell Healthcare Products, Inc.

5-18-05
Date

Mark J. Sweetin
Mark J. Sweetin

NOTARIAL CERTIFICATE

On the 18th day of May, 2005 before me personally appeared Mark J. Sweetin, to me known to be the person of the name who signed the foregoing Attestation.

Subscribed and Sworn Before Me
this 18th day of May, 2005.

Angelica Diaz
Notary Public

Stamp:



Gardner, Carton & Douglas LLC
191 N. Wacker Drive
Suite 3700
Chicago, Illinois 60606-1698

ASSIGNMENT

WHEREAS, WE, LIONG YU LOO, of No.87, Persiaran Sari 26, Taman Cempeka, 31400, Ipoh, Perak, Malaysia; LAI HEE MENG, of No. 40, Taman Desa Baru, 753 Melaka, Malaysia; NOORZANITA BINTI MUHAMMAD ZAIN, of No. 72, Manal Jaya, 17500 Tanah Merah, Kelantan, Malaysia; and ADELI KASSIM of No. 12, Jalan Seri Aman 1, Taman Muzaffar Syah, Ayer Keroh, 75450, Melaka, Malaysia; respectively, have invented and own a certain invention entitled:

CAMOMILE/ALOE VERA TREATED GLOVE AND MANUFACTURING PROCESS

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on December 17, 2002, under U.S. Application No. 10/321,897, and

WHEREAS, Ansell Healthcare Products Inc., of 1875 Harsh Avenue, S.E., Massillon, Ohio 44646 (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

UPON SAID CONSIDERATION, we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

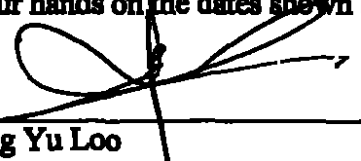
WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional

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consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date 21/2/2003
(February 21, 2003)



Liong Yu Loo

Date February 21, 2003

Witness  ENG AIK HWE

Date Feb 21st, 03

Witness  Kwan Sui Hwa

Date February 21, 2003

Wimenglai
Lai Hee Meng

72

Date February 21, 2003

Witness ENG AIK HWEE

Date Feb 21st, 03

Witness plh Kuan Sui Hwa

Date FEBRUARY 21, 2003

Noorzanita Binti Muhammad Zain

Noorzanita Binti Muhammad Zain

73

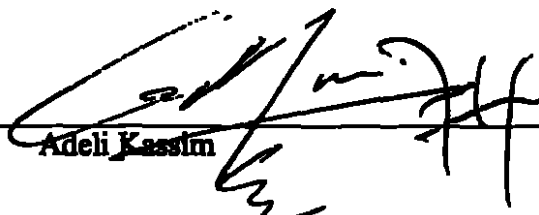
Date February 21, 2003

Witness ENG AIR HWEE

Date Feb 21st, 03

Witness Eng Sio Hua

Date February 21, 2003


Adeli Kassim

74

Date February 21, 2003

Witness ENG Aik HNEE

Date Feb 21st, 03

Witness  Kwong Sui Hwa

CH02/22226841.1

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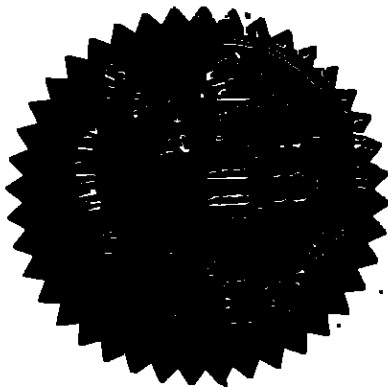
APOSTILLE

(CONVENTION DE LA HAYE DU 5 OCTOBRE 1961)

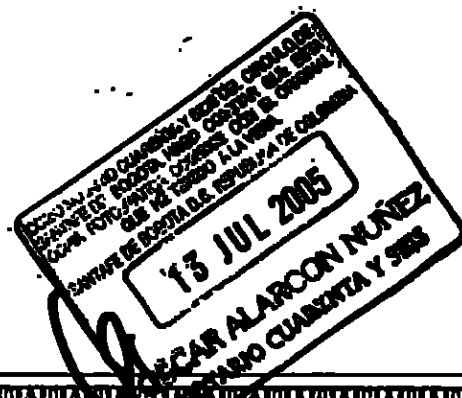
1. COUNTRY: UNITED STATES OF AMERICA
2. THIS PUBLIC DOCUMENT HAS BEEN SIGNED BY:
PATRICIA L LAURIELLO
3. ACTING IN THE CAPACITY OF:
NOTARY PUBLIC OF NEW JERSEY
4. BEARS THE SEAL/STAMP OF:
PATRICIA L LAURIELLO, NOTARY

CERTIFIED

5. AT TRENTON, NEW JERSEY
6. THE 15TH DAY OF JUNE 2005
7. BY: John E McCormac, CPA, NEW JERSEY TREASURER
8. NO. A229561
9. SEAL/STAMP:
10. SIGNATURE ..



John E McCormac



Brigard & Castro
BOGOTÁ - COLOMBIA

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PODER

POWER OF ATTORNEY

Yo (nosotros) Ansell Healthcare Products LLC

I (We) Ansell Healthcare Products LLC

domiciliado(s) en 200 Schulz Drive, Red Bank, New Jersey, 07701, Estados Unidos de America.

domiciled in 200 Schulz Drive, Red Bank, New Jersey, 07701, United States of America.

Nombro(amos) a: JUAN PABLO CADENA SARMIENTO y/o BEATRIZ JARAMILLO y/o CARLOS H. PALACIO EASTMAN y/o HECTOR GOMEZ MEJIA, de Bogotá, Colombia, apoderados verdaderos y legales con poder especial, amplio y suficiente, para recabar de las oficinas y autoridades colombianas administrativas, judiciales y de policía, en cualquier instancia o recurso, la obtención de patentes de invención, registros de marcas, diseños industriales, modelos de utilidad, depósitos de nombres comerciales y enseñanzas, registros de derechos de autor y contratos sobre los mismos, obtención de certificados de obtentor de variedades vegetales, así como sus prórrogas, renovaciones, anotaciones de traspaso, cambios de nombre y/o domicilio; elaborar, tramitar y registrar contratos de licencia y licencias de cualesquiera clases; intervenir como demandante o como demandado en cualquier instancia y recurso ante cualquier juez, corporación, funcionario público o autoridad en acciones judiciales, administrativas y de policía tales como: oposiciones al registro de marcas; acciones de caducidad, cancelación y nulidad; acciones reivindicatorias, acciones derivadas de la obtención o explotación de licencias; acciones de competencia desleal; demandas penales; acciones de indemnización de perjuicios, reclamos y observaciones a solicitudes de patentes, diseños industriales, modelos de utilidad, en el ejercicio de medidas cautelares y en otras acciones o medidas similares.

Hereby appoints JUAN PABLO CADENA SARMIENTO and/or BEATRIZ JARAMILLO and/or CARLOS H. PALACIO EASTMAN and/or HECTOR GOMEZ MEJIA, of Bogotá, Colombia, my (our) true and lawful attorneys with special, ample and sufficient power to obtain from the Colombian administrative, judicial and police offices and authorities, in any instance, privileges of patents of invention, registration of trademarks, industrial designs and utility models; registration of commercial names and emblems, registration of copyright and contracts related thereto, certificates of obtainers of vegetables varieties, as well as extensions, renewals and recordal of assignments and changes of name and domicile related to the above; to prepare, prosecute and register licenses of any kind; to act as plaintiff or defendant in any instance or recourse, and before any judge, corporation, public official or authority in judicial, administrative and police actions, such as: oppositions to the registration of trademarks; caducity, cancellation and nullity actions; claim actions derived from the obtaining or exploitation of licenses, action of unfair competition; criminal proceedings, actions for payment of damages; claims or observations on patent applications, models, industrial designs and utility models; in the exercise of preventive measures and in other actions or similar proceedings.

A este efecto, lo(s) facuto(amos) para elevar solicitudes, formular descripciones, enmiendas, protestas, declaraciones, oposiciones, cancelaciones, nulidades, apelaciones y reclamos; pagar impuestos, cuotas y gravámenes prescritos por la ley; renunciar o desistír a derechos concedidos o en curso de concesión; recibir toda clase de documentos y valores, dando el descargo respectivo, y, en general, para dar ante dichas autoridades todos los pasos necesarios al efecto indicado y tomar todas las medidas que creyeran conducentes al resguardo de mis (nuestros intereses), con todas las demás facultades legales necesarias.

To that effect they hereby empowered to file applications, formulate descriptions, amendments, protests, declarations, oppositions, cancellations, nullities, appeals and claims; to pay taxes, quotas and assessments prescribed by law, renounce or waive the rights granted or in the process of granting; to receive all kinds of documents and valuables, giving the respective release of receipt, and, in general, to take before said authorities the necessary steps to such effect, and any measures that they may deem pertinent to the safeguard of my (our) interest(s) with all the other necessary legal powers.

Este poder comprende la facultad de ratificar o confirmar en mi (nuestro) nombre lo actuado así como la facultad de desistír, transigir, comprometer, y la de sustituirlo en todo o en parte y revocar sustituciones. Asimismo nombro(amos) a: JUAN PABLO CADENA SARMIENTO y/o BEATRIZ JARAMILLO y/o CARLOS H. PALACIO EASTMAN y/o HECTOR GOMEZ MEJIA, domiciliado(s) en la Carrera 7 No. 16-58 Piso 9, mis (nuestros) apoderados en Colombia con facultades para recibir notificaciones y designar apoderados judiciales o extrajudiciales.

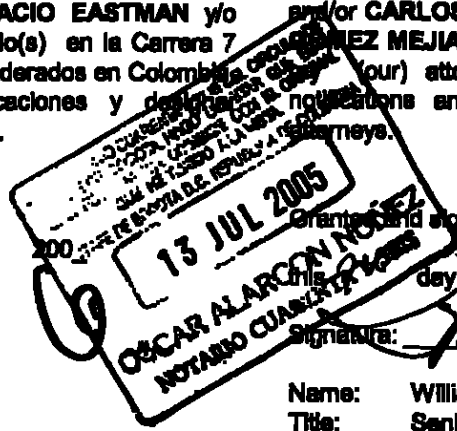
This power includes the faculty to ratify or confirm desist, settle and compromise on my (our) behalf, and to substitute this power in whole or in part and to revoke substitutions. At the same time I (We) hereby appoints JUAN PABLO CADENA SARMIENTO and/or BEATRIZ JARAMILLO and/or CARLOS H. PALACIO EASTMAN and/or HECTOR GOMEZ MEJIA, domiciled in Carrera 7 No. 16-58, Piso 9, my (our) attorney(s) in fact, with powers to receive notifications and to designate judicial and extrajudicial attorneys.

Otorgado y firmado en

hoy de de

Firma

Nombre
Cargo



Granted and signed in Red Bank, New Jersey

this day of June 2005

Signature:

Name: William G. Rellly, Jr.
Title: Senior Vice President and General Counsel

CERTIFICADO NOTARIAL (SOCIEDAD)

NOTARIAL CERTIFICATE (CORPORATION)

Hoy de
personalmente compareció ante mí

On this 9th day of June of 2005,
personally appeared before me William G. Reilly, Jr.

a quien conozco, y de quien me consta que firmó el anterior documento, debidamente juramentado declaró y dijo que él (ella) es

to me known, and known to me to be the person who signed the foregoing instrument who being by me duly sworn did depose and say that he (she) is the

de Ansell Healthcare Products LLC

Senior Vice President and General Counsel

of Ansell Healthcare Products LLC

Sociedad legalmente constituida para un período de duración que aún no ha terminado; que el declarante está autorizado por dicha compañía para conferir este poder; que el sello estampado por él al pie de tal poder, en nombre y representación de la expresada compañía, es el sello oficial de ella; y que el objeto para el cual se confiere este instrumento está comprendido dentro del objeto social de la sociedad.

Which is legally constituted for a term not yet expired, that deponent is authorized by said Company to confer this Power of Attorney: that the seal affixed hereunto by the deponent in the name and on behalf of said Corporation is the corporate seal thereof; and that the purpose for which this instrument is granted is included within the corporate purpose of company.

El suscrito Notario hace constar que tuvo a la vista las pruebas de la existencia de la sociedad.

The undersigned Notary Public attests that he has seen the documents that prove the existence of the company.

Estado de
con fecha

State of NEW JERSEY
under date of June 9, 2005

y que quien confiere el presente poder es su representante.

and that he (she) who grants the present power of attorney is its Representative.

Notario Público (sello)

Public Notary (Seal)

**CERTIFICADO NOTARIAL
PERSONA NATURAL**

**NOTARIAL CERTIFICATE
NATURAL PERSON**

Hoy de de , compareció(eron) ante mí

On this 9th day of June of 2005
personally appeared before me WILLIAM G. REILLY, JR.

a quien (es) conozco y me consta que es(son) la(s) persona(s) firmante(s) del documento que precede y quien(es) declara(n) que otorgan el mismo para los fines y propósitos que en él se expresan.

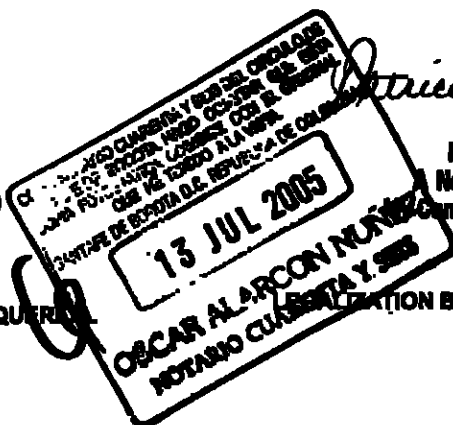
who is(are) known to me and who I attest executed the foregoing document and he (they) declared he (they) grant(s) the document for the uses and purposes therein expressed;

Notario Público (sello)

PATRICIA L. LAURIELLO
Notary Public of New Jersey
Commission Expires July 28, 2007

LEGALIZACION POR APOSTILLA ES REQUERIDA

ATTESTATION BY APOSTILLE IS REQUIRED.



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TRADUCCION AL ESPAÑOL del Documento de Poder concedido por Ansell Healthcare Products LLC, domiciliada en 200 Schulz Drive, Red Bank, New Jersey, 07701, Estados Unidos de América.

APOSTILLE

(CONVENCIÓN DE LA HAYA DEL 5 DE OCTUBRE DE 1961)

1. **PAÍS: ESTADOS UNIDOS DE AMÉRICA**
2. **ESTE DOCUMENTO PÚBLICO HA SIDO FIRMADO POR PATRICIA L LAURIELLO**
3. **ACTUANDO EN CAPACIDAD DE NOTARIO PÚBLICO DE NEW JERSEY**
4. **LLEVA EL SELLO/TIMBRE DE: PATRICIA L LAURIELLO, NOTARIO**

CERTIFICADO

5. **EN TRENTON, NEW JERSEY**
6. **EL 15 DE JUNIO DE 2005**
7. **POR: John E. McCormac, CPA, TESORERO DE NEW JERSEY**
8. **NO. A229581**
9. **SELLO/TIMBRE**
10. **FIRMA**

Jonh E. McCormac (firma)

