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การสืบค้นต้องรู้ตัวย่อ

PN	Patent Number	หมายเลขสิทธิบัตร
ISD	Issue Date	วันที่จดทะเบียน
TTL	Title	ชื่อการประดิษฐ์
ABST	Abstract	บทคัดย่อ
ACLM	Claim(s)	ข้อถ้อยสิทธิ
SPEC	Description/ Specification	รายละเอียดการประดิษฐ์
IN	Inventor Name	ชื่อผู้ประดิษฐ์
AANM	Applicant name	ชื่อผู้ขอ

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PARN	Parent Case Information
RLAP	Related US App. Data
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AAST	Applicant State
AACO	Applicant Country
AAAT	Applicant Type
LREP	Attorney or Agent
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AC	Assignee City
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ACN	Assignee Country
EXP	Primary Examiner
EXA	Assistant Examiner
REF	Referenced By
FREF	Foreign References
OREF	Other References

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80 Patents

PAT. NO.

- 1 [D741,715](#)  [Container](#)
- 2 [9,167,888](#)  [Oral care implement having flexibly supported cleaning elements extending in opposite directions](#)
- 3 [9,167,886](#)  [Oral care implement having fluid delivery system](#)
- 4 [D741,173](#)  [Cap for a container](#)
- 5 [D740,672](#)  [Container](#)
- 6 [D740,671](#)  [Container](#)
- 7 [D740,670](#)  [Container](#)
- 8 [D740,669](#)  [Container](#)
- 9 [D740,668](#)  [Container](#)
- 10 [9,155,688](#)  [Oral care whitening compositions](#)
- 11 [9,149,110](#)  [Oral care implement](#) 
- 12 [D739,658](#)  [Toothbrush](#)
- 13 [9,138,384](#)  [Color changing consumer products](#)
- 14 [D738,627](#)  [Toothbrush](#)
- 15 [9,131,767](#)  [Oral care implement](#)
- 16 [9,131,766](#)  [Oral care implement](#)
- 17 [D737,675](#)  [Oral care implement package](#)

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Images

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United States Patent
Boyd , et al.

9,155,688
October 13, 2015

Oral care whitening compositions

Abstract

Described herein are whitening compositions comprising a peroxide source, and an adhesion system comprising a hydrophobic component comprising a silicone adhesive; and a dental surface adhesion enhancing agent, which are physically stable and effectively provide whitening. Methods of making and using these compositions are also described herein.

Inventors: Boyd; Thomas (Metuchen, NJ), Ontumi; Dennis (Easton, PA), Mandadi; Prakasarao (Flemington, NJ), Chopra; Suman (Monroe, NJ), Nesta; Jason (Cedar Knolls, NJ), Pimenta; Paloma (Staten Island, NY)

Applicant:

Name	City	State	Country	Type
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Colgate-Palmolive Company	New York	NY	US	
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Assignee: Colgate-Palmolive Company (New York, NY)

International Search Report and the Written Opinion issued in International Application PCT/US2011/066087 mailed Nov. 14, 2012. cited by applicant.

Primary Examiner: Webb; Walter

Claims

The invention claimed is:

1. A non-aqueous oral care composition comprising: a peroxide source in the amount effective to deliver 0.01% to 5.5% of hydrogen peroxide; and an adhesion system comprising: a hydrophobic component comprising a silicone polymer and a silicone adhesive; and a dental surface adhesion enhancing agent, wherein the composition when applied to the teeth is sufficiently viscous to form an adherent, continuous layer on a dental surface and deliver an effective amount of said peroxide source to a tooth surface; wherein the peroxide source is selected from: hydrogen peroxide; urea peroxide, a crosslinked polyvinylpyrrolidone-hydrogen peroxide complex; sodium perborate; and a combination of two or more thereof; and wherein the adhesion system further comprises an organic material selected from: bees wax, mineral oil, a mineral oil and polyethylene blend, petrolatum, a liquid paraffin and butene/ethylene/styrene hydrogenated copolymer blend, a polyethylene wax, polyisobutene, a polyvinyl pyrrolidone/vinyl acetate copolymer; a polyacrylate; a shellac; and a combination of two or more thereof; wherein the composition has a Herschel-Bulkley rate index of less than 0.7; and wherein the composition has a critical strain greater than or equal to 0.02.
2. The composition of claim 1, wherein the peroxide source is a crosslinked polyvinylpyrrolidone-hydrogen peroxide complex.
3. The composition of claim 1, wherein the dental surface adhesion enhancing agent comprises an additional amount of cross-linked polyvinylpyrrolidone.
4. The composition of claim 3, wherein the additional amount of cross-linked polyvinylpyrrolidone is not complexed with a peroxide source.
5. The composition of claim 1, wherein the peroxide source is present in an amount effective to deliver about 0.1% hydrogen peroxide.
6. The composition of claim 1, wherein the peroxide source is present in an amount effective to deliver about 4.5% hydrogen peroxide.
7. The composition of claim 1, wherein the silicone adhesive is a pressure sensitive silicone adhesive.
8. The composition of claim 7, wherein the pressure sensitive silicone adhesive is a copolymer prepared by condensing a silicone resin with a dihydroxy polydiorganosiloxane.
9. The composition of claim 8, wherein the dihydroxy polydiorganosiloxane is dihydroxy polydimethylsiloxane.
10. The composition of claim 7, wherein the silicone resin is a silanol-containing silicone resin.
11. The composition of claim 1, wherein the organic material is mineral oil or a mineral oil and polyethylene blend.
12. The composition of claim 11, wherein the organic material comprises mineral oil.

In some embodiments, the tooth whitening compositions of the present invention are substantially anhydrous, that is, no water is added. The composition may contain trace levels of water from ingredients or from product manufacture; however, such trace levels are insubstantial and do not interfere with the hydrophobic character of the composition.

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US009155688B2

Patent No.: US 9,155,688 B2
Date of Patent: Oct. 13, 2015

.S. Cl.

PC ... A61K 8/22 (2013.01); A61K 8/38 (2013.01);
A61K 8/8176 (2013.01); A61K 8/891
(2013.01); A61Q 11/00 (2013.01); A61K
2800/872 (2013.01)

Field of Classification Search

SPC 424/53, 49
See application file for complete search history.

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International Search Report and Written Opinion of the International Searching Authority, dated Oct. 13, 2012.

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Pri
Abstract

(57)

Described herein are whitening compositions comprising a peroxide source, and an adhesion system comprising a hydrophobic component comprising a silicone adhesive; and a dental surface adhesion enhancing agent, which are physically stable and effectively provide whitening. Methods of making



Front Page Specifications Claims

(US); Paloma Pimenta, Staten Island,
NY (US)

(73) Assignee: Colgate-Palmolive Company, New
York, NY (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: 14/366,356

(22) PCT Filed: Dec. 18, 2012

(86) PCT No.: PCT/US2012/070238
§ 371 (c)(1),
(2) Date: Jun. 18, 2014

(87) PCT Pub. No.: WO2013/096245
PCT Pub. Date: Jun. 27, 2013

(65) Prior Publication Data
US 2014/0314693 A1 Oct. 23, 2014

Related U.S. Application Data

(62) Division of application No. PCT/US2011/066087,
filed on Dec. 20, 2011.

(51) Int. Cl.
A61K 8/89 (2006.01)
A61K 8/22 (2006.01)
A61K 8/81 (2006.01)
A61Q 11/00 (2006.01)
A61K 8/38 (2006.01)
A61K 8/89 (2006.01)

29 claims, No drawing

Examples

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 - 4 [D739,395](#)  [Cover for mobile phone](#)
 - 5 [D739,368](#)  [Mobile phone](#)
 - 6 [9,137,354](#)  [Portable television \(TV\) phone and method for controlling operation thereof](#)
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 - 8 [D736,752](#)  [Mobile phone](#)

D741,312 =
Design patent

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D741,312

October 20, 2015

Cover for mobile *phone*

Claims

CLAIM The ornamental design for a cover for mobile phone, as shown and described.

Inventors: Kim; Yoon-young (Seongnam-si, KR), Oh; Min-a (Gwangju-si, KR)

Applicant:	Name	City	State	Country	Type
------------	------	------	-------	---------	------

Samsung Electronics Co., Ltd. Suwon-si N/A KR

Assignee: Samsung Electronics Co., Ltd. (Suwon-si, KR)

Appl. No.: D/476,487

Filed: December 13, 2013

Foreign Application Priority Data

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Drawings



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Claims



US00D741312S

Patent (10) Patent No.: US D741,312 S
(45) Date of Patent: ** *Oct. 20, 2015

Full Pages

(71) Applicant: Samsung Electronics Co., Ltd.,
Suwon-si (KR)

Seungyoung Kim, Seongnam-si (KR);
Jae Oh, Gwangju-si (KR)

(72) Inventor: Samsung Electronics Co., Ltd.,
Suwon-si (KR)

(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: 14 Years

(21) Appl. No.: 29/476,487

(22) Filed: Dec. 13, 2013

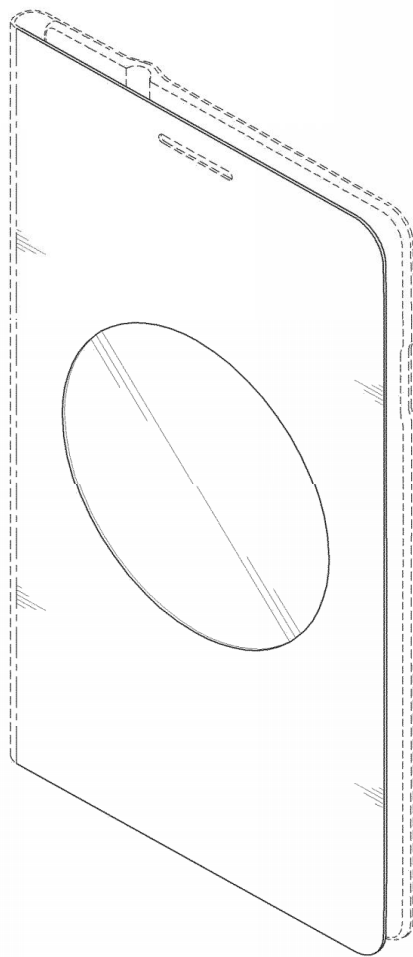
(30) Foreign Application Priority Data

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Primary Examiner — Carla Jobe Wright

FIG. 1



Patent #: US000741312

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See application file for complete search history.

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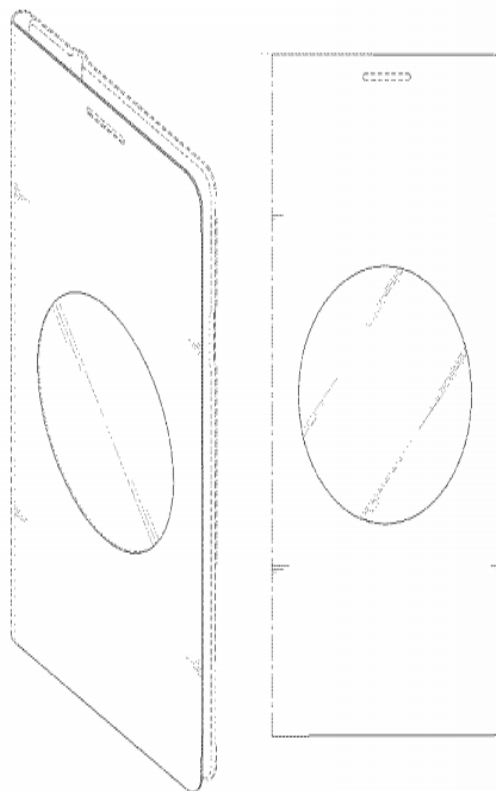
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FIG. 7 is a bottom view thereof.

The dot-dash broken line shown in FIGS. 1 and 2 represents a boundary of the claimed design. The dash-dash broken lines throughout the drawing figures depict unclaimed environment. The broken lines form no part of the claimed design.

1 Claim, 7 Drawing Sheets



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