

1) Family number: 58446467 (US2015034117A)

METHODS FOR FIXING HAIR AND SKIN

Abstract: Source: US2015034117A Compositions, kits, and methods for repairing bonds, for example, disulfide bonds, in hair or on the skin are disclosed. The compositions provide improved conditioning benefit for dry hair or moisturize the skin. The compositions also provide a long lasting moisturized feel and smooth feel to the skin or hair, without feeling greasy. The compositions contain one or more compounds that covalently bind at least two thiol groups in the hair or on the skin. Use of the binding compositions prevents reversion of the repaired bonds to their free thiol state, for at least one week or one month, or more, after a single application of the composition. Improved methods of styling hair, for example permanent hair waving, hair curling, hair coloring or highlighting, and hair straightening, are also provided.

Probable Assignee: LIQWD INC

Earliest Publication Date: 20150205



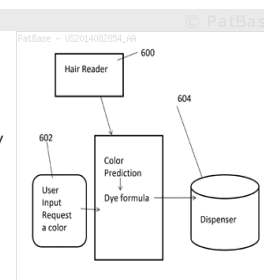
2) Family number: 51990398 (US2014082854A)

SYSTEMS FOR CUSTOM COLORATION

Abstract: Source: US2014082854A Novel systems and methods for performing treatment (e.g., coloration) of keratinous fibers are disclosed. The methods and systems utilize one or more of a dispensing device which is configured to provide customized composition for treating keratinous fibers (e.g., a coloring composition), optionally formed from tablets; an optical reader, for obtaining sufficient characteristics of the keratinous fibers to make a realistic prediction of the outcome of a treatment (e.g., coloring treatment); a computational unit for predicting an outcome of a treatment, optionally being interfaced with the dispensing device and for selecting a customized treatment; and tablet formulations which are useful in preparing customized composition for treating keratinous fibers. Further disclosed are rapidly disintegrating tablets for use in the preparation of compositions for treating keratinous fibers.

Probable Assignee: COLORIGHT LTD

Earliest Publication Date: 20120927



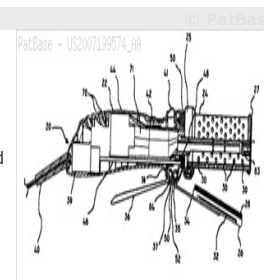
3) Family number: 35853867 (US2007199574A)

HAIR STYLING TOOL WITH ROTATABLE CYLINDER

Abstract: Source: US2007199574A A hair styling tool includes a body, a cylinder extending from the body, the cylinder rotatable relative to the body, a motor for rotating the cylinder, a heater to heat the cylinder, and a styling arm pivotally attached to the body. The hair styling tool may have a generally clam shell configuration, wherein the styling arm is movable between an open position in which the styling arm does not contact the cylinder and a closed position in which the styling arm contacts the cylinder. The styling arm may also include a brush head with fixed or retractable bristles and/or a smoothing plate.

Probable Assignee: M M AND R PRODUCTS INC

Earliest Publication Date: 20070830



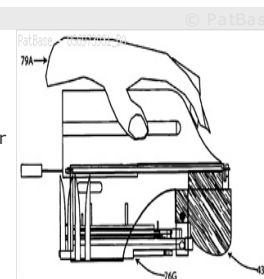
4) Family number: 20694926 (US6973931B)

AUTOMATED HAIR ISOLATION AND PROCESSING SYSTEM

Abstract: Source: US6973931B A device comprised of hair-flow-channel guides continuously moved over the surface of the scalp. A track cap of parallel tracks is placed on the head to guide device's movement over the scalp along non-overlapping rows. At the front of the device is a hair-tensioning straightener that pulls hairs perpendicular to the scalp before and during processing. A bend-under assembly, formed by two pinching conveyer belts, facilitates hair exit from the channels by bending scalp-attached hairs beneath the walls of each hair channel. Intermittent intersection of each channel by an obstructing member isolates one or a few leading hairs for processing and forces trailing hairs to wait their turn for cosmetic processing behind it. Isolated scalp hairs may be cosmetically processed in ways including coloration; cross-section reshaping, hair-extension attachment and removal, and cutting to length according to position along track. Hair extensions removed at one position along a track cap are conveyed to corresponding holding clips and loaded in an order so as to permit their reattachment to the same scalp area. Hair extensions so held can be channeled and isolated for attachment, as are scalp hairs. A bend-under assembly can be used to draw one or a group of isolated hairs longitudinally through the chamber in which they are isolated facilitating cross-sectional reshaping of hairs or cutting to a preprogrammed length. Intersecting member and cosmetic processing actuation synchronized by computer.

Probable Assignee: KING CHRISTOPHER R

Earliest Publication Date: 19990514



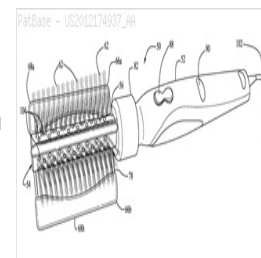
5) Family number: 51447627 (US2012174937A)

HAIR STYLING TOOL WITH MOVABLE DIVIDERS

Abstract: Source: US2012174937A A hair styling tool having a plurality of bristles and one or more movable members extending radially outward from the core and movable between opposing positions is provided. The movable members move between a retracted position where the divider is fitted between and even with or slightly above or slightly below the bristles to engage the hair and an extended position where the divider is moved out beyond the bristles to disengage the hair from the bristles. The hair styling tool having the movable member which engages and disengages the hair with the bristles minimizes tangling of the hair while brushing. The hair styling tool may be a rotating brush optionally equipped with a motor.

Probable Assignee: M M AND R PRODUCTS INC

Earliest Publication Date: 20120712



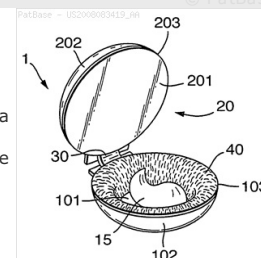
6) Family number: 41696825 (US2008083419A)

HAIR TREATMENT APPLICATION SYSTEM COMPRISING AN ABSORBENT SUBSTRATE

Abstract: Source: US2008083419A The present invention describes a hair treatment application system, comprising at least one or more hair treatment compositions (15) having a viscosity of from 3,000 cPs to 150,000 cPs and a hair treatment application device (1) comprising a first plate (10) and a second plate (20) positionable in a juxtaposed relationship when said hair treatment application device (1) is in a closed state. The hair treatment application device (1) is characterized by having a first zone comprising at least one absorbent substrate (40) on the internal surface (101) of said at least said first plates (10) and a second zone (50) on said internal surface (101) which is free of said absorbent substrate (40). Said at least one absorbent substrate (40) has a median pore radius of from 300 microns to 3,000 micron. The present invention describes also methods of treating the hair with said hair treatment application system (10) and kit comprising said hair treatment application system.

Probable Assignee: NOXELL CORP

Earliest Publication Date: 20080410



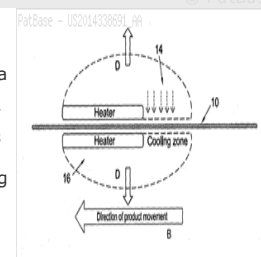
7) Family number: 50796619 (US2014338691A)

HAIR STYLING APPARATUS

Abstract: Source: US2014338691A A hair styling apparatus including a first and a second arm moveable between a closed position in which a contacting surface of the first arm is adjacent a contacting surface of the second arm and an open position in which the contacting surfaces of each arm are spaced apart, whereby the contacting surfaces of each arm have complementary profiles so that, in use, a section of hair is clamped between the contacting surfaces when the arms are in the closed position, and where a heating zone on at least one of the contacting surfaces is provided to heat the section of hair between the contacting surfaces, a cooling zone on at least one of the contacting surfaces is provided for cooling the section of hair after the section of hair has been heated, and the cooling zone is curved whereby, in use, as the hair styling apparatus is moved along the section of hair in a generally linear fashion, the section of hair is curled.

Probable Assignee: JEMELLA LTD

Earliest Publication Date: 20130717



8) Family number: 43628291 (US2009226381A)

METHOD AND COMPOSITION FOR REDUCING THE DRYING TIME OF HAIR

Abstract: Source: US2009226381A The invention concerns to a method and composition for improving the drying time of hair, for example, after bathing, shampooing, swimming, and the like by impregnating it with a particular amino functional silicon derivative. In a preferred embodiment the invention concerns to hair styling compositions that are applied to dry or wet hair as a leave-in treatment and that additionally reduces the time to dry the hair during styling; further to leave-in or rinse-out hair care compositions that additionally reduces the time to dry the hair.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20090819

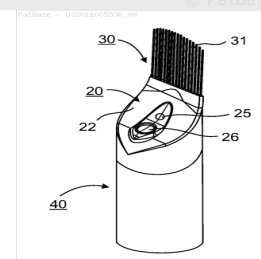
9) Family number: 43432578 (US2011005538A)

AGENTS, COMPOSITIONS AND DEVICES FOR TEMPORARY COLORING LOCAL HAIR AREAS

Abstract: Source: US2011005538A Hair-coloring applicators comprising a shield to protect the scalp, polymers of tannic acid having iron ions bound thereto, hair-coloring compositions comprising same and/or melanoidin, and novel alcohol-free carriers, are disclosed, as well uses thereof for coloring hair.

Probable Assignee: SOS COLOR LTD

Earliest Publication Date: 20090625



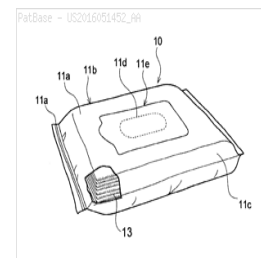
10) Family number: 57560359 (US2016051452A)

SHEET-SHAPED HAIR COSMETIC AND HAIR TREATMENT METHOD AND SCALP-WIPING METHOD USING SAME

Abstract: Source: US2016051452A A sheet-like hair care product including (A) a substrate sheet containing cellulosic fibers and having a bending resistance of 10 to 70 mm measured by the 45 degrees cantilever method in accordance with JIS L1096:2010 and (B) a liquid cosmetic composition. The substrate sheet (A) is impregnated with 1 to 50 g of the liquid cosmetic composition (B). The substrate sheet impregnated with the liquid cosmetic composition is preferably packaged in a packaging container having an access opening with an area of 25 to 4000 mm² and an openable and closable lid sealing the contents.

Probable Assignee: KAO CORP

Earliest Publication Date: 20141009



11) Family number: 54906221 (US2013255711A)

HAIR TREATMENT AND REVITALIZING COMPOSITION AND METHODS

Abstract: Source: US2013255711A A hair care composition containing inorganic fluoride for straightening, smoothing, and/or relaxing hair, and a method for using the hair care composition a hair care composition containing an inorganic fluoride for straightening, smoothing, defrizzing, curling and/or relaxing of hair, and its method of use in a variety of hair care products, e.g., straightener solution, shampoo, conditioner, color binding treatment, volumizing treatment, a combination thereof, etc. The hair care composition is formaldehyde-free, even when heated.

Probable Assignee: ZOTOS INT INC

Earliest Publication Date: 20131003



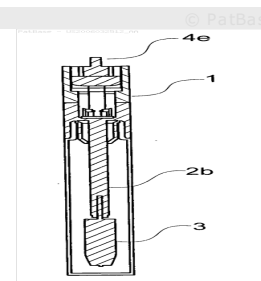
12) Family number: 32624830 (US2006032512A)

VIBRATING MASCARA APPLICATOR, SUITABLE COMPOSITIONS AND METHOD OF USE

Abstract: Source: US2006032512A The present invention is mascara applicator with vibrating applicator head. The head is caused to vibrate in a controlled manner through electromechanical urging. The frequency, amplitude and geometry of the vibrating head are sufficient to significantly alter the rheological properties of thixotropic and anti-thixotropic mascara compositions, including an effect that persists after the vibration has stopped. The present invention allows the mascara to be manipulated for improved results, greater flexibility in formulation, benefits in manufacture, as well as other benefits.

Probable Assignee: ELC MANAGEMENT LLC

Earliest Publication Date: 20060216



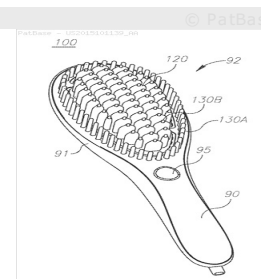
13) Family number: 51767414 (US2015101139A)

HAIR STRAIGHTENING BRUSH

Abstract: Source: US2015101139A A brush is provided herein, the brush having heating elements dispersed on and protruding from its face and spacers arranged to maintain a specified distance between protruding ends of the heating elements and a scalp of a head that is being brushed. The spacers are dispersed on the brush's face at a specified density that assures maintaining the specified distance with respect to a resilience of the spacers.

Probable Assignee: GUY A SHAKED INVESTMENTS LTD

Earliest Publication Date: 20131121



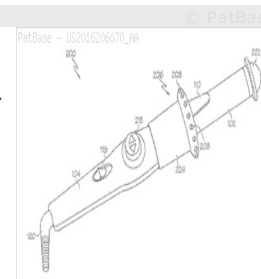
14) Family number: 59866868 (US2016206070A)

HAIR STYLING APPARATUSES AND RELATED METHODS

Abstract: Source: US2016206070A The present disclosure relates to hair styling apparatuses and related methods. The hair styling apparatus includes a heated barrel defining a stationary hair styling surface, a rotating member configured to rotate around the stationary hair styling surface, and a burn prevention cover. The rotating member includes a tab fixedly extending along a longitudinal length of the stationary hair styling surface over less than an entire longitudinal length of the hair styling surface to gather and wind a user's hair around the stationary hair styling surface without clamping onto the wound hair.

Probable Assignee: KISS NAIL PRODUCTS INC

Earliest Publication Date: 20150720



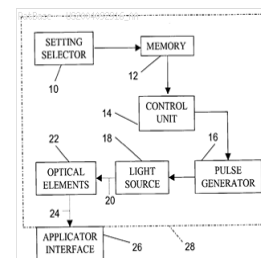
15) Family number: 30569780 (US2004092916A)

TEMPORARY HAIR REMOVAL METHOD

Abstract: Source: US2004092916A A hand held device generates a predetermined number of pulses of light having a predetermined electromagnetic spectrum, a predetermined duration, a predetermined inter-pulse interval, and a predetermined total energy. The pulse sequence is delivered to a skin surface to temporarily remove hair. A period of time for reappearance of hair on the selected skin surface after the using of the device to remove hair from the selected skin surface is determined by counting the days to hair reappearance after a test light application. Subsequently, the device is used periodically to apply the pulses of light to the selected skin surface at intervals of shorter length than the determined period of hair regeneration, thereby temporarily maintaining the selected skin surface free of visible hair.

Probable Assignee: JAY HARVEY

Earliest Publication Date: 20040513



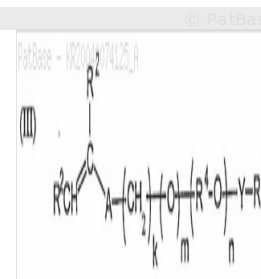
16) Family number: 28881216 (US2003202953A)

HAIR SETTING COMPOSITIONS, POLYMERS AND METHODS

Abstract: Source: US2003202953A Disclosed are aqueous hair setting compositions comprising, as the sole hair fixative component, rheology modifying, hair setting, associative polymers (RMHS), which are the polymerization product of a monomer mixture comprising an acidic vinyl monomer; and an associative monomer. The hair setting compositions provide surprisingly good to excellent hair setting efficacy, based on high humidity curl retention. A wide range of rheological characteristics was achieved together with good clarity and aesthetic product properties. Particularly preferred rheology modifying hair setting associative polymers are certain hydrophobically modified alkali-swellable and alkali-soluble associative polymers (ASAP) and HASE polymers disclosed herein. Also disclosed are methods of setting hair using RMHS polymer-containing compositions.

Probable Assignee: LUBRIZOL ADVANCED MATERIALS INC

Earliest Publication Date: 20030731



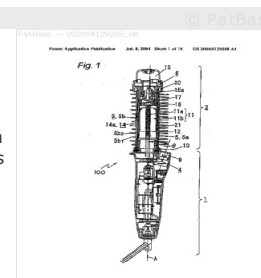
17) Family number: 28554924 (US2004129288A)

HAIR IRON

Abstract: Source: US2004129288A A hair iron can give hair a sufficient amount of negative ions. The hair iron has a grip, and a hair-care section connected to the grip, having a heater for generating heat to hair for hair dressing. Further, it has a negative ion generator which generates negative ions due to discharge around an electrode therein to emit them toward hair held by the hair-care section. The hair-care section has a bar-like shape, and the heater is fixed to an outer surface of the bar-like shape. Then, by winding hair to the hair care section in the hair iron, hair dressing can be performed efficiently.

Probable Assignee: PANASONIC ELECTRIC WORKS CO LTD

Earliest Publication Date: 20030506



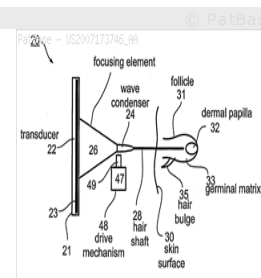
18) Family number: 32195634 (US2007173746A)

METHOD AND DEVICE FOR REMOVING HAIR

Abstract: Source: US2007173746A A method of treating unwanted hair is disclosed. The method comprises: transmitting acoustic waves through the hair so as to generate heat at a follicle, a dermal papilla, a hair bulge and/or a germinal matrix of the hair. The heat itself is sufficient to damage or destroy the follicle, the dermal papilla, the hair bulge and/or the germinal matrix.

Probable Assignee: APPLISONIX LTD

Earliest Publication Date: 20050901



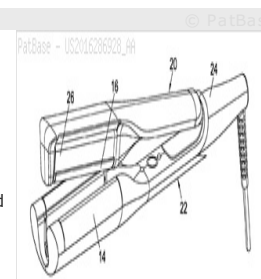
19) Family number: 55626302 (US2016286928A)

HAIR STYLING APPARATUS

Abstract: Source: US2016286928A A hair styling apparatus comprising a pair of closable jaws (20,22) to engage a user's hair. Said jaws (20,22) have complementary shapes with, a first said jaw (20) defining a curved ridge and a second said jaw (22) defining a curved recess. One or both of said jaws (20,22) includes a heater such that, when said jaws are closed, hair is heated in a heating region (16) between the ridge of said first jaw (20) and the recess of said second jaw (22). Said second jaw (22) has a curved longitudinal surface having an active cooling region (14). A transverse cross section through said second jaw (22) defines at least one S-shaped curve having a forward curve into which said ridge of said first jaw (20) fits, and a linked reverse curve bearing said active cooling region (14) on which hair may be cooled and curved. Said heating region (16) is located on said forward curve; and said active cooling region (14) is located on said reverse curve. In this way, when said jaws (20,22) are engaged, a tangent to a surface of engagement of the two jaws (20,22), at a point on said forward curve up to or at a point linking said forward and reverse curves avoids said active cooling region (14).

Probable Assignee: JEMELLA LTD

Earliest Publication Date: 20150521



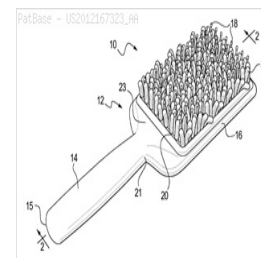
20) Family number: 51415945 (US2012167323A)

WATER REMOVING HAIR BRUSH

Abstract: Source: US2012167323A A hair brush includes a body having a head and a water absorbent material carried by part of the body. The hair brush can have a plurality of bristles. The body has one or more vents. The water absorbent material can be a foam material, a microfiber fabric, or other suitable material.

Probable Assignee: GOODY PRODUCTS INC

Earliest Publication Date: 20120705



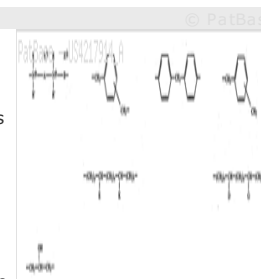
21) Family number: 30949346 (US4217914A)

QUATERNIZED POLYMER FOR USE AS A COSMETIC AGENT IN COSMETIC COMPOSITIONS FOR THE HAIR AND SKIN

Abstract: Source: US4217914A A quaternized polymer for use as a hair or skin cosmetic agent, has recurring units of the formula wherein R is lower alkyl or -CH₂-CH₂OH; R' is an aliphatic, alicyclic or arylaliphatic radical containing up to 20 carbon atoms, or R and R' together with the nitrogen atom to which they are attached form a heterocycle capable of containing a heteroatom other than nitrogen; A is (1) o-, m- or p-xylylidene of the formula wherein x, y and t are whole numbers ranging from 0 to 11 so the sum (x+y+t) is greater than or equal to 0 and lower than 18, and E and K represent hydrogen or an aliphatic radical having less than 18 carbon atoms, (3) -(CH₂)_n-S-(CH₂)_n+13, (4) -(CH₂)_n-O-(CH₂)_n-, (5) -(CH₂)_n-S-S-(CH₂)_n-, (6) -(CH₂)_n-SO-(CH₂)_n-, (7) -(CH₂)_n-SO₂-(CH₂)_n- or wherein n is equal to 2 or 3; B represents (1) o-, m- or p-xylylidene of the formula wherein D and G represent hydrogen or an aliphatic radical having less than 18 carbon atoms and v, z and u are whole numbers ranging from 0 to 11, with two of v, z and u simultaneously being capable of being 0, so the sum (v+z+u) is greater than or equal to 1 and lower than 18 and so the sum (v+z+u) is greater than 1 when the sum (x+y+t) is equal to 0, (3) or (4) -(CH₂)_n-O-(CH₂)_n- wherein n is 2 or 3; and X(-) is an anion derived from an organic or mineral acid.

Probable Assignee: LOREAL SA

Earliest Publication Date: 19751114



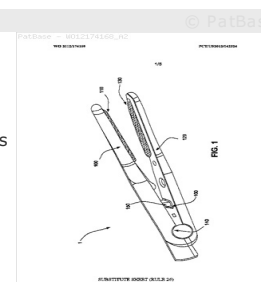
22) Family number: 50949873 (US2012093755A)

COMPOSITIONS AND METHODS FOR TREATING KERATIN BASED FIBERS

Abstract: Source: US2012093755A Compositions, formulations, kits and methods for temporarily or semi-permanently transforming the shape of individual hair filaments or keratinous fibers (curling, waving or straightening) by applying no heat or heat below about 300 degrees Fahrenheit to prevent damage to the keratinous fibers.

Probable Assignee: COOLWAY INC

Earliest Publication Date: 20120419



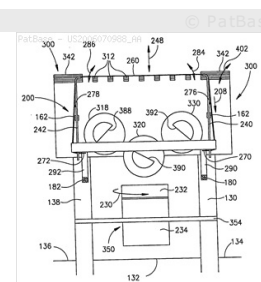
23) Family number: 32318482 (US2006070988A)

ELECTRIC SHAVER WITH VIBRATING HEAD

Abstract: Source: US2006070988A A hair cutting apparatus comprising: an elongate element (260) heated to a temperature capable of cutting hair; a vibrating structure (200), on which said elongate element (260) is mounted; and a housing (106) in which the vibrating structure (200) is mounted.

Probable Assignee: ICTV BRANDS INC

Earliest Publication Date: 20040923



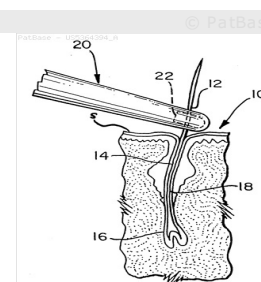
24) Family number: 29222155 (US5364394A)

METHOD OF REMOVING HAIR FROM THE BODY AND INHIBITING FUTURE GROWTH

Abstract: Source: US5364394A Hair is removed from the body and future growth is inhibited by treating the outer surface of the hair so as to reduce RF energy dissipation and permit more RF energy to reach the hair root and thereby damage or destroy the same. The hair is treated with a conductive material such as a conductive metal, a conductive solution such as a metal salt, an acid, or a base.

Probable Assignee: MEHL ANNMARIE TRUSTEE THOMAS L MEHL SR UNIFIED CRE

Earliest Publication Date: 19921101



25) Family number: 11418538 (US6022380A)

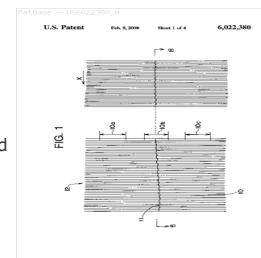
PROCESSES FOR MANUFACTURING COLORED HAIR USING COLOR SIZING AGENTS AND VAPOR

© PatBase

Abstract: Source: US6022380A A process for manufacturing colored hair is disclosed. This process comprises the steps of applying a color sizing agent to hair material, semi-drying the color sizing agent applied to the hair material, winding a vapor feeding member comprised of a net member and a moisture-containing member around an area of the hair material where the color sizing agent is applied, winding an evaporation adjusting member for adjusting the quantity of evaporation of the moisture around the vapor feeding member from outside thereof, and permeating and fixing the color sizing agent to the applied area of the hair material by heating the vapor feeding member, thereby, hair at least partly applied with a desired color or color shade is obtained. A colored hair obtained by the above process is also disclosed.

Probable Assignee: ADERANS HOLDINGS CO LTD

Earliest Publication Date: 19990903



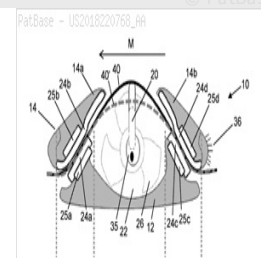
26) Family number: 60815595 (US2018220768A)

APPARATUS AND METHOD FOR DRYING HAIR

Abstract: Source: US2018220768A An apparatus for drying hair includes first and second mutually-opposing arms adapted for movement between an open configuration for receiving a length of wet hair therebetween and a closed configuration adjacent the hair. A vibrator imparts vibration from at least one of the arms to the length of hair in use, to move and separate hair fibres for improving drying of the hair. A method of drying hair includes using the apparatus to impart vibration to a length of wet hair held within the apparatus. The method may further include using the apparatus to style the hair substantially simultaneously with drying the hair.

Probable Assignee: JEMELLA LTD

Earliest Publication Date: 20170315



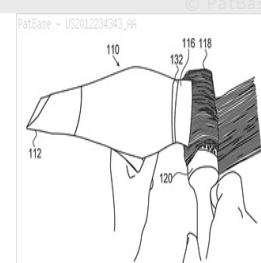
27) Family number: 45888815 (US2012234343A)

HAIR STYLING ATTACHMENT

Abstract: Source: US2012234343A A hair dryer/blower for use in straightening or styling hair with a round hair brush, comprising a hot air outlet, an attachment to the hot air outlet comprising a heat conducting device terminating in a flat elongated nozzle, an air inlet, and an attachment to the air inlet having a terminal shape conforming to the curvature of a round hair brush used in shaping the hair.

Probable Assignee: GIDON COSMETICS LTD

Earliest Publication Date: 20110512



28) Family number: 62569922 (US2018353406A)

AGENT FOR HAIR DEFORMING TREATMENT

Abstract: Source: US2018353406A An agent for hair deforming treatment comprising the following components (A), (B) and (C):

- (A) glyoxylic acid, or a hydrate or a salt thereof,
- (B) resorcin, and
- (C) water, wherein the molar ratio of the content of the component (B) to the content of the component (A), (B)/(A), is 0.2 or more and 5 or less.

Probable Assignee: KAO CORP

Earliest Publication Date: 20160609

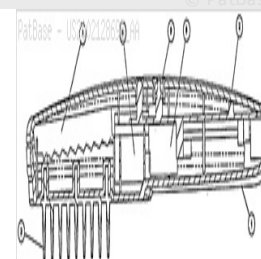
29) Family number: 52210311 (US2002128696A)

APPARATUS AND METHOD FOR STIMULATING HAIR GROWTH

Abstract: Source: US2002128696A A hand-held laser device that stimulates hair growth. The device provides distributed laser light to the scalp while simultaneously parting the user's hair to ensure that the laser light contacts the user's scalp. A unique beam splitting reflector splits a single laser beam to ensure that energy from the laser beam is evenly distributed. The reflector is mechanically aligned with the laser source and has a zigzag structure which mechanically deflects portions of the beam as it passes over the peaks of the reflector. The portions of the laser beam form a line of laser beams that project toward the user's scalp. Parallel rows of teeth are aligned with a central row of individual laser beams and part the user's hair to form furrows in the user's hair as the device is combed through the user's hair. The furrows create an unobstructed path for the laser beam to reach the scalp of the user.

Probable Assignee: LEXINGTON INT LLC

Earliest Publication Date: 20020912



30) Family number: 66270026 (US2017189302A)

COMPOSITIONS CONTAINING POLYCARBODIIMIDES FOR TREATING KERATINOUS SUBSTRATES

Abstract: Source: US2017189302A Compositions including polycarbodiimide and derivatives thereof together with carboxylic acid compounds and derivatives thereof chosen from fatty acids, their salts, and mixtures thereof to enhance the quality of the keratinous substrates. The present invention relates to a cosmetic treatment and process for treating keratinous materials, in particular for hair-care and hair-styling, wherein the composition can include the polycarbodiimide and the carboxylic acid compound chosen from fatty acids, their salts, and mixtures thereof in amounts sufficient to impart hydrophobicity to keratinous substrates, including hair fibers, upon application thereto. The present invention, in particular, relates to a hair treatment composition and process for enhancing durable non-permanent shaping and curling of the hair.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20170706

31) Family number: 58881867 (US2015096584A)

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HAIR STRAIGHTENING METHOD INVOLVING REDUCING SUGARS

Abstract: Source: US2015096584A A hair straightening and/or hair relaxing method comprising: applying a hair care composition to hair, wherein the composition comprises a sugar, a buffering agent and a cosmetically acceptable carrier; and wherein, where the composition is heated to a temperature of at least 100 degrees centigrade, the composition comprises from about 6 percent to about 20 percent reducing sugar; hair drying; providing a hair straightening appliance at a temperature of from about 100 degrees centigrade to about 280 degrees centigrade and mechanically straightening the hair with the appliance.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20150408

32) Family number: 67075570 (US2017273883A)

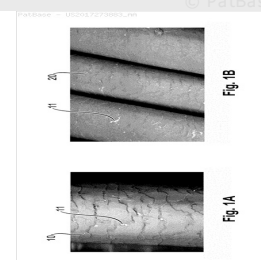
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METHOD FOR TREATING AND COLORING HAIR COMPRISING UN-PIGMENTED HAIR

Abstract: Source: US2017273883A Described herein is a method for treating and coloring hair including un-pigmented hair. The method includes (a) providing a first composition including one or more heavy metal ion sequestrants; (b) applying the first composition to the hair; (c) providing a second composition including one or more weak acids having a pKa from 2.5 to 5; (d) applying the second composition to the hair; (e) providing a third composition including one or more direct dyes chosen from nitro dye, disperse dye, cationic dye, acid dye, basic dye, neutral azo dye and mixtures thereof, and (f) applying the third composition to the hair. The third composition is able to decrease the reflectance of un-pigmented hair in a wavelength range from 530 nm to 670 nm.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20170927



33) Family number: 63715633 (US2018078474A)

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COMPOSITION AND PROCESS FOR TREATING HAIR

Abstract: Source: US2018078474A Disclosed herein is hair cosmetic composition comprising a thiol-based compound selected from thiolactic acid and its derivatives or salts, and wherein the composition has a pH of less than 7. Also disclosed is a process for shaping or 5 altering the shape of hair or caring of the hair.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20161006

ASSESSMENTS OF STRAIGHTENING PERFORMANCE AND REDUCTION OF FRIZZINESS AND VOLUME OF HAIR		
BEFORE TREATMENT	RINSE PROTOCOL	NON-RINSE PROTOCOL
		
Measurable attribute value:	4.0	3.0

34) Family number: 66270029 (US2017189303A)

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COMPOSITIONS CONTAINING POLYCARBODIIMIDES AND AMINO COMPOUNDS FOR TREATING KERATINOUS SUBSTRATES

Abstract: Source: US2017189303A Compositions including polycarbodiimide and derivatives thereof together with amino compounds and derivatives thereof chosen from alkyl monoamines, alkoxyated polyamines, alkoxyated monoamines, polyamines, and mixtures thereof to enhance the quality of the keratinous substrates. The present invention relates to a cosmetic treatment and process for treating keratinous materials, in particular for hair-care and hair-styling, wherein the composition can include the polycarbodiimide and the amino compound in amounts sufficient to impart one or more of increased hydrophobicity to the keratinous substrates, including hair, and increased hold to the shape or configuration of the keratinous substrate, upon application thereto. It is in particular a hair treatment composition and process for enhancing durable non-permanent shaping and curling of the hair.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20170706

35) Family number: 66270031 (US2017189301A)

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COMPOSITIONS CONTAINING POLYCARBODIIMIDES AND LATEX POLYMERS FOR TREATING KERATINOUS SUBSTRATES

Abstract: Source: US2017189301A Compositions including polycarbodiimide and derivatives thereof together with latex polymers and derivatives thereof to enhance the quality of the keratinous substrates. The present invention relates to a cosmetic treatment and process for treating keratinous materials, in particular for hair-care and hair-styling. A method of styling or shaping hair is also disclosed.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20170706

36) Family number: 56012642 (US2014075694A)

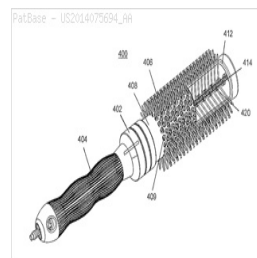
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INDUCTION HEATED HAIR STYLING APPLIANCES AND THE HEATING UNIT THEREFOR

Abstract: Source: US2014075694A A heated hair-styling appliance for styling hair through heat is provided. The heated hair-styling appliance comprises a heating head having an outer shell covering at least part of the surface thereof, and an inner heat source core disposed within the inner part of the heating head, and a handle attached to a distal end of the heating head. The heated hair-styling appliance works in conjunction with an independent heating unit to heat up the inner heat source core, and the heat source core operationally supplies heat to heat up the outer shell for styling hair after it is being heated. A induction heating unit therefor is also provided.

Probable Assignee: TAI WAH DISTRIBUTORS PTE LTD

Earliest Publication Date: 20140319



37) Family number: 62231537 (US2016120284A)

HAIR COLOURATION, METHOD AND KIT THEREOF

Abstract: Source: US2016120284A Method for colouring hair wherein a first composition comprising at least one cationic polymer and a second composition comprising at least one anionic polymer are alternately applied to the hair.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20160504

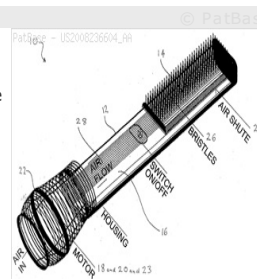
38) Family number: 34243764 (US2008236604A)

HAIRSTYLING DEVICE

Abstract: Source: US2008236604A The present invention provides a hairstyling device (10) comprising an elongate arm (12) having a hair receiving surface (14). Within the arm (12) there is an air passageway (16) that carries air injected into it by a fan (18). The air passageway (16) has an elongate air outlet (24) which is parallel to the arm (12). The air outlet (24) is configured to blow air along the length of the hair. Attached to the hair receiving surface (14) are bristles (26) to form a brush.

Probable Assignee: MOURAD JOSEPH

Earliest Publication Date: 20070301



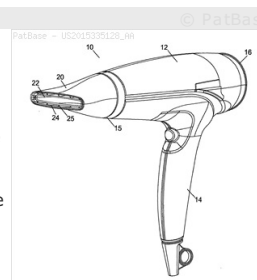
39) Family number: 51885201 (US2015335128A)

HAIR DRYER

Abstract: Source: US2015335128A The invention relates to hair dryers. Various techniques for improving air flow in hair dryers are described, including a hair dryer providing laminar flow air. In another variant a hair dryer has a two air flow channels: one a hot air channel the other a cool air channel, with the cool air channel circumscribing the hot air channel. The nozzle end of the hair dryer is arranged such that the cool air channel extends forward of the hot air channel outlet. This allows a hair dryer to be placed close to, or on, a person's hair/head without and risk of burning the person's head. A hair dryer with external power supply is also described which reduces the weight of the housing held by a user.

Probable Assignee: JEMELLA LTD

Earliest Publication Date: 20140101



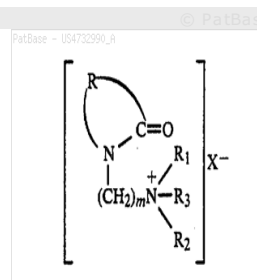
40) Family number: 42245527 (US4732990A)

QUATERNIZED NITROGEN CONTAINING COMPOUNDS

Abstract: Source: US4732990A The invention relates primarily to quaternized compounds having the formula wherein m is an integer having a value of from 1 to 4; R is alkylene having from 3 to 8 carbon atoms and is optionally substituted with C1 to C4 alkyl; R1, R2 and R3 are each independently selected from the group of alkyl, alkyl oxide, alkylhydroxy, alkoxy, aryl, aralkyl, alkaryl, and alkyl amidoalkyl radicals, said groups each having from 1 to 30 carbon atoms and at least one of R1, R2 and R3 is radical having from 8 to 30 carbon atoms; and X- is a chloride, bromide or iodide anion. The invention also relates to the preparation and use of said quaternized compounds.

Probable Assignee: ISP INVESTMENTS INC

Earliest Publication Date: 19880322

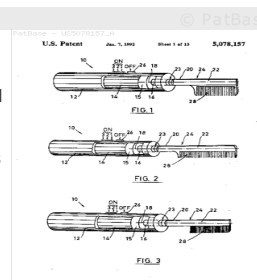


41) Family number: 28816544 (US5078157A)

OSCILLATORY HAIR TREATMENT APPARATUS AND METHOD

Abstract: Source: US5078157A Apparatus for treating hair including a handle, hair separation apparatus associated with the handle and extending longitudinally along an axis, apparatus for oscillating the hair separation apparatus about the axis so as to bring the hair separation apparatus into repeated engagement with a group of hairs so as to ease passage of the separation apparatus therethrough, and apparatus for preventing the hair separation apparatus from striking a portion of skin to which the hairs are attached. The hair separation apparatus is oscillated about the axis at a relatively high frequency, of, typically, greater than 4,000 cycles per minute and preferably greater than 10,000 cycles per minute, and at a relatively small amplitude, of, typically, no larger than about 5 degrees and, preferably, no larger than 2 degrees. A method of delousing hair includes the steps of placing hair separation apparatus in a group of hairs and oscillating the hair separation apparatus at high frequency, so as to bring the hair separation apparatus into repeated engagement with the group of hairs in a direction generally transverse to the length of the hairs, thereby also bringing the hair separation apparatus into repeated engagement with lice and lice eggs located among the hairs, so as to cause fatal injury to the lice and lice eggs.

Probable Assignee: CHEMIPAL LTD



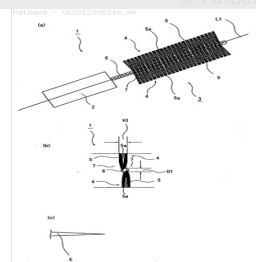
Earliest Publication Date: 19900601
(42) Family number: 50451795 (US2012006349A)

MASCARA BRUSH

Abstract: Source: US2012006349A The present invention provides a mascara brush which, when an application liquid is applied with the front ends of brush bristle materials, can apply a large amount of the application liquid held in the mascara brush without being rotated and which, when cleaning is performed with the front ends of brush bristle materials, can perform cleaning with a large amount of a cleaning liquid held in the mascara brush without being rotated. In this mascara brush, a large number of the brush bristle materials are radially provided around a core material. The mascara brush has a brush portion which is constituted of the radial brush bristle materials gathered around the core material and formed into a bundle along a core axial direction. Around the brush portion, there is a space around the core material along the core axial direction. The brush portion may have hook portions bent like hooks at the front ends of the radial brush bristle materials. The brush portion may be configured so that, as viewed from the core axial direction, a central portion of the radial brush bristle materials is long, and the radial brush bristle materials are gradually shortened from the central portion toward the sides.

Probable Assignee: TOKYO PARTS CO LTD

Earliest Publication Date: 20120112



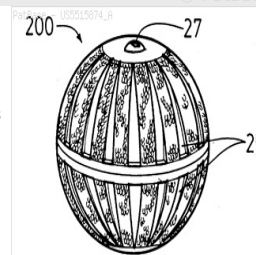
(43) Family number: 30418889 (US5515874A)

SPHERICAL HAIR CURLER AND METHOD FOR USING SAME

Abstract: Source: US5515874A A spherical curler and method for using same are provided to enable a user to obtain a helical curl having a continue of varying diameters within each lock of curled hair. This varying diameter helix provides a new and distinct look for the curled hair. In addition, the spherical configuration allows more curlers to be placed on the head as compared to conventional cylindrical curlers having the same sized diameter. Also, the spherical configuration of the curler provides for less wasted space on the curler, and allows each curler to be more completely utilized for each respective lock of hair.

Probable Assignee: EIWA SHIKI KOGYO KK

Earliest Publication Date: 19960514



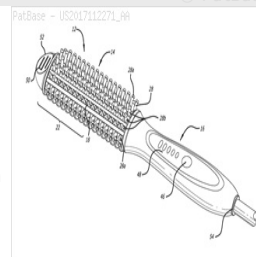
(44) Family number: 59143850 (US2017112271A)

STYLING BRUSH

Abstract: Source: US2017112271A The disclosure provides for a heated hairbrush, said heated hairbrush comprising a first side of a base, a second side of a base, a tapered end, and a handle. The first side of the base provides for at least one set of projections and a heated surface. The heated surface can be located directly on the first side of the base or on an additional plate that is placed on top of the first side of the base. The projections can align into rows and columns on the first side of the base. The projections may extend from a plate or plurality of extensions. The second side of the base may include ridges that span the latitudinal axis of the base. The ridges can also align with the columns defined by the projections. The second side of the base can also comprise a heated surface which can heat an inner portion of the ridges.

Probable Assignee: GLOBAL PRODUCTS LLC AG

Earliest Publication Date: 20150204



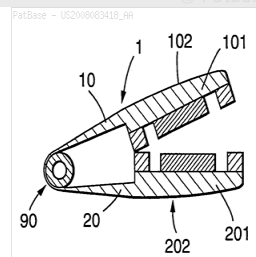
(45) Family number: 41696821 (US2008083418A)

HAIR HIGHLIGHTING APPLICATION TOOL

Abstract: Source: US2008083418A Disclosed herein is an application tool (1) and methods to use the same. The application tool (1) comprises two plates (22), connected together. At least one of said two plates (22) comprises a fluid control zone (50), which run along the perimeter edge (30) of said at least one plate (22), a displacement zone (60), which at least partially separate said fluid control zone (50) from a containment zone (70). A hair treatment composition may be loaded onto the containment zone (70). Application of hair treatment compositions through the application tool (1) according to the invention allows for a precise, non-messy and clean targeting of the hair treatment composition on a hair strand and it is especially useful for highlighting and dyeing compositions.

Probable Assignee: NOXELL CORP

Earliest Publication Date: 20080410



(46) Family number: 44520188 (US2011180092A)

HAIR STYLING METHOD

Abstract: Source: US2011180092A Provided is a method for styling mammalian hair that includes contacting the hair with a composition that includes a poly(vinylamine-vinylformamide) copolymer and a first carrier, contacting the hair with a composition that includes a citrate and a second carrier, and styling the hair. The method of the present invention promotes improved hair styling properties such as improved curl retention and straightness retention, e.g., under conditions of high relative humidity and temperature. The method can be used for semi-permanently straightening or curling the hair. Also provided is a method for controlling fizz by applying the copolymer and citrate compositions.

Probable Assignee: ALBERTO CULVER CO

Earliest Publication Date: 20100311



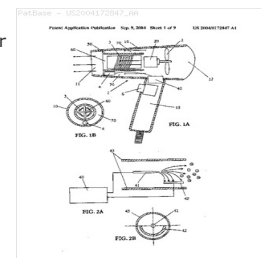
(47) Family number: 30686928 (US2004172847A)

HAIR DRYER WITH MINUS ION GENERATOR

Abstract: Source: US2004172847A A hair dryer is provided, which includes a housing having an air outlet, fan disposed in the housing, a pair of air flow channels extending toward the air outlet in the housing, a partition wall for separating the channels from each other, heater disposed in only one of the channels, and a minus-ion generator disposed in the other channel. The partition wall is formed by a tubular member, which is disposed in the housing such that one of the channels is provided by an inner space of the tubular member, and the other channel is provided by a clearance between an inner surface of the housing and an outer surface of the tubular member. Therefore, it is possible to simultaneously provide a cold air flow with minus ions and a hot air flow from the air outlet, and thereby efficiently perform hair styling.

Probable Assignee: PANASONIC ELECTRIC WORKS CO LTD

Earliest Publication Date: 20040630



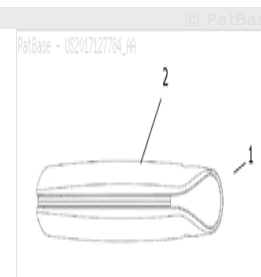
48) Family number: 61132489 (US2017127784A)

HAIR CONDITIONING TREATMENT APPARATUS AND METHOD

Abstract: Source: US2017127784A In one aspect the invention is arranged to provide a hair treatment apparatus adapted to reduce the temperature of hair. This apparatus includes at least one thermal energy storage core arranged to draw heat out of hair wherein said at least one thermal energy storage core is arranged to cool hair to a temperature below 0 degrees Celsius.

Probable Assignee: ROHOLM LTD

Earliest Publication Date: 20151217



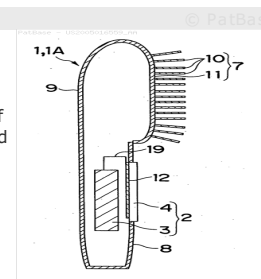
49) Family number: 28881183 (US2005016559A)

HAIR SETTING DEVICE

Abstract: Source: US2005016559A A hair setting instrument is provided which can set hair easily by supplying charges through a separate path. In concrete, the hair setting instrument comprises a mechanism for setting hair of a user, and an electrostatic charger which supplies charges to a body of the user for electrostatic charges generated by a movement for setting the hair. The electrostatic charger has a charging circuit which generates a predetermined voltage, and a charging plate electrically connected to the charging circuit. Wide spreading of the hair, electrostatic cling to the face or the like, dry hair, and the damage to the hair due to charging can be prevented. Further, for example, the body of hair can be decreased by supplying negative charges when the hair is charged with positive electrostatic charges.

Probable Assignee: PANASONIC ELECTRIC WORKS CO LTD

Earliest Publication Date: 20030731



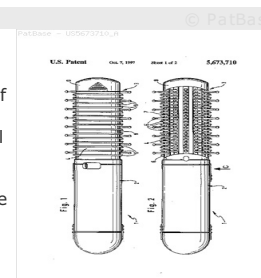
50) Family number: 13756660 (US5673710A)

APPLIANCE FOR TREATING HAIR

Abstract: Source: US5673710A The invention is directed to an appliance for treating hair (1), which is comprised of a handle section (2) and a heatable hair treatment section (3). The section (3) possesses an approximately tubular bristle mounting member (4) which is assembled from two half shells (7, 8). Projecting outwardly from the half shell (7) are bristles (5), and the half shell (8) is equipped with rib members (6). The radius (R1) of the cross section of the bristled half shell (7) is smaller than the radius (R2) of the cross section of the ribbed half shell (8). These different radii (R1, R2) enable a user both to form waves with long or medium long hair and to treat short hair in the area close to the scalp. The larger radius may be used for large-volume waves in particular where long hair is involved, while the smaller radius is suitable in particular for treating short hair as well as hair in the area close to the scalp.

Probable Assignee: BRAUN AG

Earliest Publication Date: 19950824



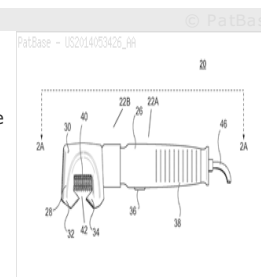
51) Family number: 55882446 (US2014053426A)

CONCENTRATOR

Abstract: Source: US2014053426A A hair treatment device has a body and a blower supported by the body from which air is blown. A concentrator separately connected to the body or integral with the body comprises at least one gas flow conduit in gas flow communication with the blower. A nozzle is in gas flow communication with a distal portion of the conduit and is oriented to blow air from a distal portion of the first conduit back toward the body.

Probable Assignee: M M AND R PRODUCTS INC

Earliest Publication Date: 20140227



52) Family number: 66270035 (US2017189309A)

COMPOSITIONS AND METHODS FOR TREATING KERATINOUS SUBSTRATES

Abstract: Source: US2017189309A Treatment compositions including a polycarbodiimide together with a carboxysilicone polymer to enhance the quality of keratinous substrates. Treatment compositions and processes related thereto for treating keratinous substrates, in particular for hair-care, where, according to the process, the polycarbodiimide and carboxysilicone polymer actives may be applied in a treatment that is a single step emulsion or at least two sequential steps. The composition includes 0.1 to 40.0 percent, by weight, of the composition of a combined amount of the polycarbodiimide and the carboxysilicone polymer in amounts sufficient to impart hydrophobicity to keratinous substrates, including hair fibers, upon application thereto. It is in particular a treatment composition and process for imparting lasting protection and for improving damaged hair by enhancing the hair's hydrophobicity, thereby enhancing retention of curl, making the make hair easier to comb, and improving the feel thereof.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20170706

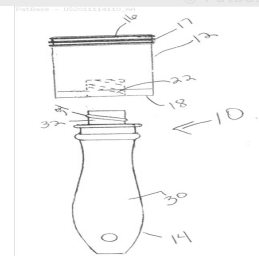
53) Family number: 48909171 (US2011114110A)

HAIR STYLING ASSEMBLY

Abstract: Source: US2011114110A A hair styling tool kit has cylindrical hair roller(s) having bristles positioned on exterior thereof, a proximate end, a distant end and an opening formed in the proximate end. A handle is configured to detachably engage the proximate end of the hair roller(s), one at a time, and facilitate rolling of hair on the hair roller(s). The body of the hair roller(s) is manufactured from heat absorbing material that helps in transmitting heat to the hair rolled on the hair roller(s).

Probable Assignee: GUTHANS DEBRA E

Earliest Publication Date: 20110519



54) Family number: 62231540 (US2016120285A)

HAIR COLOURATION, METHOD AND KIT THEREOF

Abstract: Source: US2016120285A Method for colouring hair wherein a first composition comprising at least one cationic polymer and a second composition comprising at least one anionic polymer are alternately applied to the hair.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20160504

55) Family number: 51911850 (US2013340785A)

KERATIN-BASED HAIR STRAIGHTENING FORMULATIONS, METHODS AND SYSTEMS

Abstract: Source: US2013340785A The present invention teaches a hair straightening system including formulations that will safely and effectively straighten curly hair for at least 2-3 months after a single application, despite frequent washings of the hair. Methods for obtaining said formulations are disclosed. Hair straightening systems including shampoo and one or more conditioners are also provided.

Probable Assignee: JANELLE MARIE BAUM

Earliest Publication Date: 20120913

56) Family number: 62727829 (US2016175237A)

HAIR COSMETIC COMPOSITION CONTAINING LATEX POLYMERS AND A SILICONE-ORGANIC POLYMER COMPOUND

Abstract: Source: US2016175237A Disclosed are hair cosmetic compositions comprising at least two latex polymers selected from acrylate latex polymers and polyurethane latex polymers, wherein at least one latex polymer is a film-forming polymer, and at least one silicone-organic polymer compound. Methods of imparting durable styling or shaping benefits and/or frizz control to hair by applying the hair cosmetic compositions onto hair are also disclosed.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20160623

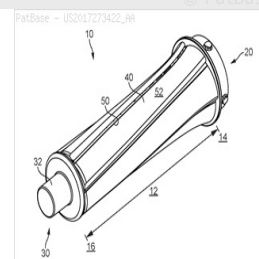
57) Family number: 62555769 (US2017273422A)

ATTACHMENT FOR A HAND HELD APPLIANCE

Abstract: Source: US2017273422A An attachment for a hair care appliance includes a body having a fluid inlet, a fluid outlet, a fluid flow path extending between the inlet and outlet and at least one vane for directing fluid within the fluid flow path towards the fluid outlet, wherein the body includes at least two extended plates and the fluid outlet includes a slot defined by an overlap between the at least two extended plates, and wherein the at least one vane is positioned within the overlap between the at least two extended plates. The body may be elongate, may have a first end including the fluid inlet, and may extend along an axis. The fluid outlet may extend along the axis between the first end and a second end. The at least one vane may direct fluid flowing in the fluid flow path from a first direction to a second direction.

Probable Assignee: DYSON TECHNOLOGY LTD

Earliest Publication Date: 20170927



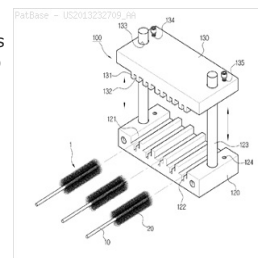
58) Family number: 51333158 (US2013232709A)

METHOD FOR MOLDING SHAPE OF BRISTLES OF MASCARA BRUSH FOR EYELASHES, MOLD USED IN THE METHOD, AND MASCARA BRUSH MOLDED BY THE METHOD

Abstract: Source: US2013232709A The present invention relates to a method for molding a shape of bristles of a mascara brush for eyelashes, a mold in used in the method. Two strands of iron cores are twisted and brush bristles respectively having dorsal portions are radially spread between the twisted iron cores through post-process so as to form a mascara brush, wherein the dorsal portions are formed by the brush bristles of the same length on the basis of the iron cores without difference in the length of the brush bristles, so that a mascara solution contained in the dorsal portion does not run down when being applied to eyelashes, and the mascara provides more volume and a beautiful eyelash make-up when a sufficient amount of the mascara solution is applied.

Probable Assignee: HONG JEONG WOOK

Earliest Publication Date: 20120621



59) Family number: 44520193 (US2011192414A)

HAIR STYLING METHOD

Abstract: Source: US2011192414A Provided is a method for styling hair that includes contacting the hair with a compositions that includes a poly(vinylamine-vinylformamide) copolymer and conditioning agents, applying heat to the hair in an amount effective to at least semi-permanently style the hair, and styling the hair. The method of the present invention promotes improved hair styling properties such as improved curl retention or straightness retention, e.g., under conditions of high relative humidity and temperature. The method can be used for semi-permanently straightening or curling the hair.

Probable Assignee: ALBERTO CULVER CO

Earliest Publication Date: 20100311



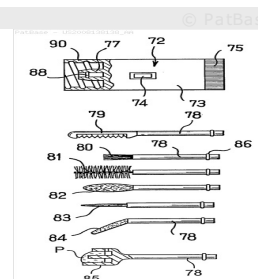
60) Family number: 33279731 (US2008138138A)

METHOD OF APPLYING MAKEUP BY MEANS OF A VIBRATING APPLICATOR

Abstract: Source: US2008138138A The present invention concerns an applicator for applying a makeup composition. The applicator includes an applicator element configured to apply the makeup composition to one of nails, eyelashes, eyebrows, skin and lips, and a vibration source causing the applicator element to vibrate. The applicator is configured to be fastened onto a receptacle containing the composition to be applied, and/or further comprises a reservoir containing the composition to be applied.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20060831



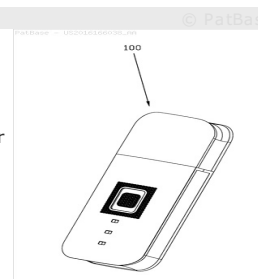
61) Family number: 55443456 (US2016166038A)

AN ELECTRICAL HAIR REMOVAL DEVICE AND CONTROL METHOD

Abstract: Source: US2016166038A A control method for an electrical hair removal device, the electrical hair removal device including a heat generator having a heating wire formed thereon, including the steps of step S11: starting the electrical hair removal device and letting it go into a standby state; step S12: placing the heat generator on an hair removal needed area; and step S13: electrifying the heating wire to a predetermined temperature, for realizing hair removal with a constant heating temperature. An electrical hair removal device includes a main body and a cover for accommodating the main body. The main body has a heat generator having a heating wire thereon, a supporting element and a printed circuit board (PCB). The heating wire is electrically connected to the PCB, which is electrified and heated to a predetermined temperature, for realizing hair removal with a constant heating temperature.

Probable Assignee: 405 CO SHENZHEN LTD

Earliest Publication Date: 20131225



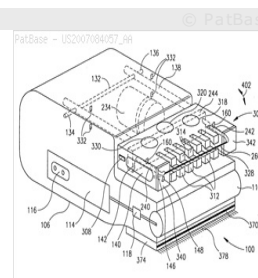
62) Family number: 32558102 (US2007084057A)

SHAVER WITH HAIR PREHEATING

Abstract: Source: US2007084057A A hair cutting head, for use in a hair cutting apparatus comprising: an elongated heated wire suitable for heating hair growing from a skin surface; and at least one blade, placed at one side of the elongated heated wire, the at least one blade being situated and configured to cut the hair which has been heated by the heated wire, wherein the wire is heated to a temperature of at least 50 degrees centigrade

Probable Assignee: ICTV BRANDS INC

Earliest Publication Date: 20060112



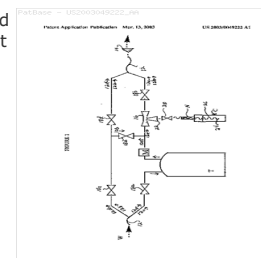
63) Family number: 30008705 (US2003049222A)

HAIR RELAXER SYSTEM AND METHOD THEREFOR

Abstract: Source: US2003049222A This invention describes a hair relaxer system and method that ameliorates and inhibits the adsorption and retention by alkaline, chemically-relaxed hair of exogenous multivalent metal ion present in the chemical relaxer, in the rinse water or both employed during the process of relaxing naturally curly hair with compositions containing strong chemical base. In a preferred relaxer method aspect, the alkaline, chemically relaxed hair was contacted with an aqueous metal ion chelating composition containing at least one multivalent metal ion chelating agent employing a disclosed delivery system adapted for practical salon use. In another preferred relaxer method embodiment, wipes impregnated with multivalent metal ion chelating composition were employed during the relaxer process.

Probable Assignee: AVLON IND INC AN ILLINOIS CORP

Earliest Publication Date: 20020829



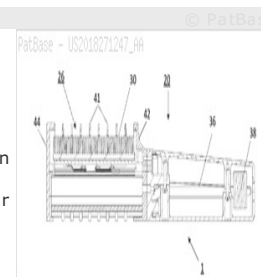
64) Family number: 60959457 (US2018271247A)

HAIR STYLING APPARATUS

Abstract: Source: US2018271247A The application describes hair styling apparatus (1) for creating volume in a user's hair. The hair styling apparatus (1) comprises a heating member, a cooling member adjacent to the heating member, thermal insulation between the cooling member and the heating member and a tensioning member projecting from the heating member. The heating member comprises a heating contacting surface for heating hair in contact with the heating member. The cooling member has a cooling contacting surface for cooling hair in contact with the cooling member and the cooling member is cooled by an active cooling mechanism. The tensioning member tensions a user's hair against the heating contacting surface to improve heat transfer into a user's hair and applies stress to a user's hair as the hair contacts the cooling contacting surface adjacent the heating contacting surface whereby the hair is styled to create volume.

Probable Assignee: JEMELLA LTD

Earliest Publication Date: 20170406



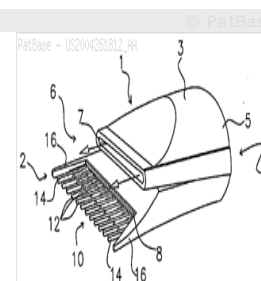
65) Family number: 15948830 (US2004261812A)

HAIR CARE ATTACHMENTS AND DEVICES

Abstract: Source: US2004261812A A hair care device including a main housing (3) and hair engagement means (2), the main housing (3) includes a hollow compartment interconnecting an upstream end (4) and a downstream end (5), the upstream end (4) includes means for connecting to the outlet nozzle of an air-blowing device (98), the hair engagement means (2) include a plurality of elongated teeth (12) which are thermally conductive and which generally extend along the direction of air blowing from said downstream end (5) when the upstream end (4) of the device is connected to the air-blowing device (98) with the air-blowing device in its normal operating conditions.

Probable Assignee: DICKSON INDUSTRIAL CO LTD

Earliest Publication Date: 20030417



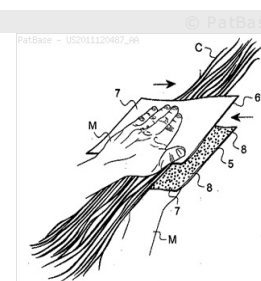
66) Family number: 44166447 (US2011120487A)

HAIR TREATMENT METHODS AND KITS

Abstract: Source: US2011120487A A cosmetic treatment method for hair, the method comprising the following steps: abrading the hair using abrasion means enabling the hair to be abraded; and applying a cosmetic treatment composition to the hair, before, after, and/or during abrasion of the hair.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20091204



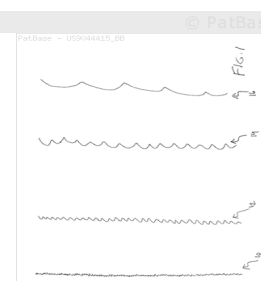
67) Family number: 51282634 (US2012145175A)

HAIR TRANSFORMATIONAL SOLUTION, WHICH TRANSFORMS HAIR VIA A PHYSICAL CHANGE, RATHER THAN A CHEMICAL CHANGE, WITH THE UNIQUE PROPERTIES THAT ACT LIKE NATURAL HUMAN SEBUM.

Abstract: Source: US2012145175A A hair transformation agent, useful in transforming hair texture from kinky to curly, by application of this non permanent solution. The solution acts like the sebum of a human. Hair that is naturally rich in sebum is healthy, shiny, strong, nourished. Hair that is lacking is typically in bad condition. Hair shaft can lack sebum because of chemical use, but seems to be a natural occurrence in kinky hair. Because of this people with kinky hair often seek extreme measures to restore their hair or make it more manageable. Most resort to chemical processing to change the texture look and feel of the hair only this just makes the hair worst. Our formula will give kinky hair the sebum it is lacking and in the process the hair will begin to act, look and feel like another hair texture that has abundant sebum naturally, curly hair, and textural change will occur.

Probable Assignee: SMITH SUDDIAN S

Earliest Publication Date: 20120614



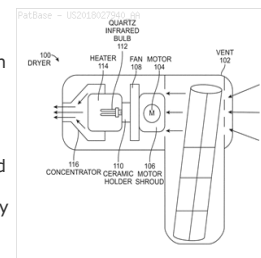
68) Family number: 68414596 (US2018027940A)

SYSTEM AND METHOD FOR AN ENHANCED HAIR DRYER

Abstract: Source: US2018027940A A system and method for an intelligent hair drying/styling apparatus with user information transmission and storage capabilities is herein provided. The hair drying/styling apparatus houses a control circuit board and an infrared or temperature sensor (or camera) in order detect an individual's hair condition moisture level to determine a user specific, customizable dryer setting. The information detected by the sensor is stored locally, on a proximal Internet-enabled device, or on a remote or cloud-based server and accessed by the hair drying/styling apparatus through a wireless local area network connectivity function. Accordingly, a user's hair temperature-drying profile may be stored and later recalled to provide optimal hair styling setting customized for that user. This innovation will enable any number of hair professionals and or end consumers to improve styling and dry time. Such a profile may contain a proprietary V-Factor calculation that will, among other applications, correspond to the use of a coordinated and optimized hair spray solution. According to the present invention, energy usage is reduced to enable a more efficient design.

Probable Assignee: SPUR CONCEPTS INC

Earliest Publication Date: 20180201



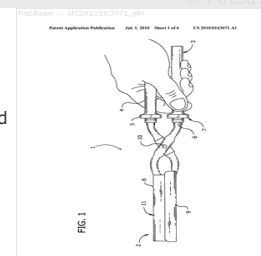
69) Family number: 45910564 (US2010163071A)

SILICONE AND SILOXANE-BASED IMPREGNATED COATING AND POLYMERIC MATERIALS FOR CONDITIONING

Abstract: Source: US2010163071A The present disclosure generally relates to a personal care device comprising an immiscible conditioning composition formed by combining a hydrophilic matrix, such as a polymeric material, and a hydrophobic conditioning agent. More particularly, the present disclosure relates to a personal care device comprising a hydrophilic matrix, such as a polymeric material, and a hydrophobic conditioning agent dispersed therein, such as a silicone or a siloxane-based agent suitable for transferring from the device surface, and more particularly the matrix surface, to hair or skin surfaces in contact therewith.

Probable Assignee: SPECTRUM BRANDS INC

Earliest Publication Date: 20100701



70) Family number: 66216254 (US2019038532A)

METHOD FOR TREATING HAIR

Abstract: Source: US2019038532A A method for treating hair, comprising the following steps:

- step (i): a step of applying a first composition comprising carboxylic acid having an inorganic value of 250 to 450 and an organic value of 50 to 250, or a salt of the carboxylic acid, as a component (A), to hair,
- step (ii): a step of leaving the hair, to which the first composition has been applied, at a temperature of 15 degrees centigrade to 100 degrees centigrade for 15 seconds to 60 minutes, and
- step (iii): a step of applying a second composition comprising aromatic sulfonic acid or a salt thereof having a molecular weight of 300 or less, as a component (B), to the hair after completion of the step (ii).

Probable Assignee: KAO CORP

Earliest Publication Date: 20170629

71) Family number: 27099714 (US2004011373A)

METHOD OF TREATING HAIR

Abstract: Source: US2004011373A A hair treatment process comprises the following steps A or B, and includes conducting shaping of hair in at least one of the steps: Steps A: A first pack with a reducing agent contained therein and a second pack with an oxidizing agent contained therein, said second pack having buffer capacity and a pH of from 1 to 5, are successively applied to the hair, and the hair is rinsed with water and is dried (the first pack or the second pack contains an organic acid (A) or a salt thereof), Steps B: A first pack with a reducing agent contained therein, an intermediate treatment having buffer capacity and a pH of from 1 to 5, and a second pack with an oxidizing agent contained therein are successively applied to the hair, and the hair is rinsed with water and is dried (the first pack or the intermediate treatment contains the organic acid (A) or salt thereof), Organic acid (A): a compound comprising a non-aromatic hydrophobic group having a total carbon number of from 3 to 11 or an aromatic hydrophobic group having a total carbon number of from 4 to 18 and an acidic group such as a sulfo group, sulfate ester group or the like. By a procedure as simple as conventional straight perm, an extremely high, extremely curly hair correcting effect can be obtained. Further, subsequent to the treatment, the corrected state can be restored or maintained by a routine aftercare without damaging the hair.

Probable Assignee: KAO CORP

Earliest Publication Date: 20021212



72) Family number: 59233436 (US2016296449A)

SEMI-PERMANENT HAIR STRAIGHTENING COMPOSITION AND METHOD

Abstract: Source: US2016296449A A composition and a process for straightening hair are disclosed. The process includes coating keratin fibers with a composition comprising a thermally-activated agent and a guanidine moiety containing adjuvant compound and contacting the coated keratin fibers with a heating device at a temperature of at least 185 C for sufficient time to modify the keratin fibers.

Probable Assignee: LUBRIZOL ADVANCED MAT INC

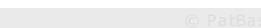
Earliest Publication Date: 20150514

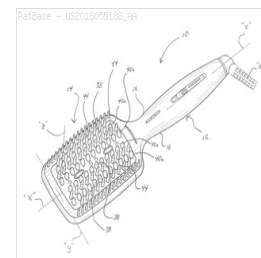
73) Family number: 64427846 (US2018055188A)

HEATED HAIR PADDLE

Abstract: Source: US2018055188A A heated hair paddle includes a novel bristle arrangement which establishes a large surface area for contacting the length of hair during grooming while also creating a serpentinous path through which the length of hair must traverse thereby enhancing the grooming effect on the hair.

Probable Assignee: BABYLISS FACO SPRL





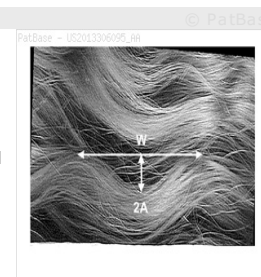
74) Family number: 51716358 (US2013306095A)

ENHANCED HAIR STRAIGHTENING SYSTEM

Abstract: Source: US2013306095A The present enhanced hair straightening system is directed to enhancing the removal of natural curl from hair having a visibly wavy to tight curly configuration using methods and compositions that provide straightened hair which retains desirable sensory tactile properties and hair sheen. The present invention is particularly suited to straightening hair having a curl configuration classified as resistant to conventional hair straightening.

Probable Assignee: SYED ALI N

Earliest Publication Date: 20120809



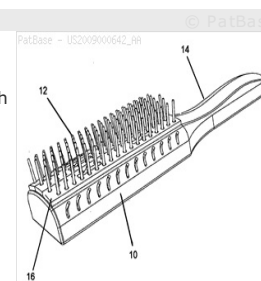
75) Family number: 42769392 (US2009000642A)

SELF-CLEANING HAIR BRUSH

Abstract: Source: US2009000642A A hair brush with a cleaning element for removing entwined hair from the brush before or after use. The cleaning element of the brush includes a plate(s) with opening through which the bristles protrude. When the plate is expanded, the plate pushes any hairs entwined in the bristles to the tips of the bristles where they are removed. The brush also has a post mechanism, which allows for the adjustment of the cleaning element to various intermediary positions, effectively adjusting the length of the bristles for use of the brush.

Probable Assignee: DIPIPO JOE

Earliest Publication Date: 20090101



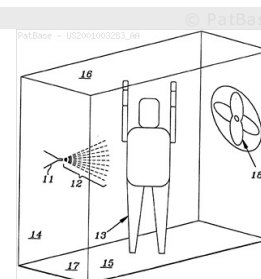
76) Family number: 30005235 (US2001003283A)

METHOD OF AND APPARATUS FOR AUTOMATICALLY COATING THE HUMAN BODY

Abstract: Source: US2001003283A In a system for coating human skin, a chemical composition, such as a cosmetic or medical formulation, is uniformly coated over the entire body or selected parts of the body of the person being coated. The system includes atomization of the coating composition, containment of the atomized spray, and residual recovery which together yield a novel method for applying chemical compositions.

Probable Assignee: LAUGHLIN PRODUCTS INC

Earliest Publication Date: 19990713



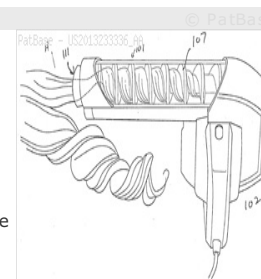
77) Family number: 52891601 (US2013233336A)

HAIR STYLING DEVICE

Abstract: Source: US2013233336A A hair styling device dry and/or to form a hair strand into a curl by suctioning hair into a hair styling chamber is disclosed. The device has a main styling chamber and air flow channel parallel to the styling chamber. The device has a vacuum impeller mounted in a fan chamber. The fan chamber is aerodynamically connected to the main styling chamber and to the air flow channel. The styling chamber has a styling form, which in the depicted embodiment is a spiral for forming spiral curls. The styling form can be heated directly by a heater and the air flow channel can have heating elements to heat the air flowing through it. At the opposite end of the body from the impeller, there is a hair inlet with a mixing tip through which hair is drawn into the styling chamber around the styling form by suction of the air flow.

Probable Assignee: WISE SUN INT LTD

Earliest Publication Date: 20130131



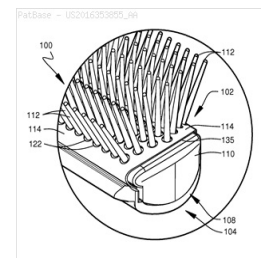
78) Family number: 64275961 (US2016353855A)

HAIR STYLING BRUSH SYSTEMS

Abstract: Source: US2016353855A A system of hair styling brushes comprising a thermal plate situated over a resilient cushion member having bristles integrated with the resilient cushion member and extending through and away from the thermal plate, with an air break, or gap, between the thermal plate and resilient cushion member. The thermal plate assists shaping, shining, and drying of hair when used with a blow dryer. Further, the thermal plate covers the elastomeric materials forming the resilient cushion member, making the elastomeric materials less susceptible to degradation.

Probable Assignee: OLIVIA GARDEN INT INC

Earliest Publication Date: 20161208



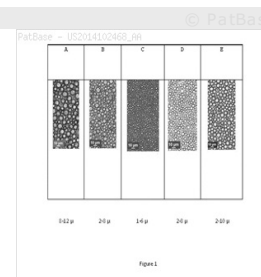
79) Family number: 56249328 (US2014102468A)

HAIR STYLING COMPOSITIONS CONTAINING AQUEOUS WAX DISPERSIONS

Abstract: Source: US2014102468A The present invention is directed to a hair styling composition and methods of using the composition, wherein the composition comprises: (a) an aqueous dispersion containing: (i) at least one solid wax particle having a particle size ranging from equal to or greater than 1 micron to about 100 microns and comprising at least one wax having a melting point of greater than 35 degrees centigrade; (ii) a surfactant mixture comprising at least one nonionic surfactant and at least one ionic surfactant; and (iii) water; and (b) at least one cosmetically acceptable carrier.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20140417



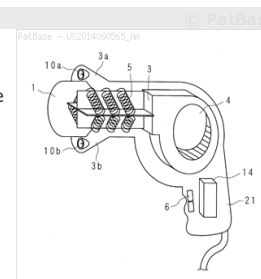
80) Family number: 52369717 (US2014060565A)

METHOD AND APPARATUS FOR HUMIDIFYING HAIR AND REDUCING HAIR DAMAGE

Abstract: Source: US2014060565A There is provided with a method for humidifying hair and reducing hair damage that humidifies hair readily and improves hair damage with the use of both positive ions and negative ions. A positive ion generation means for discharging electricity between electrodes applied by a voltage to generate positive ions combined to water molecules and a negative ion generation means for discharging electricity between electrodes applied by a voltage to generate negative ions combined to water molecules are prepared. Hair is humidified and hair damage is reduced by irradiation of hair with the positive and negative ions generated respectively by the positive ion generation means and the negative ion generation means.

Probable Assignee: SHARP KK

Earliest Publication Date: 19930921



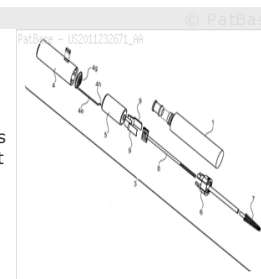
81) Family number: 49624158 (US2011232671A)

HEATED MASCARA APPLICATOR AND SUITABLE COMPOSITIONS

Abstract: Source: US2011232671A A handheld mascara applicator comprising an applicator head, a source of electric current, and a heat generating portion that is effective to heat a quantity of mascara located on the applicator head, from an ambient temperature to a product application temperature, in 25 seconds or less, or that is effective to raise the temperature of the outer surface of the applicator head from an ambient temperature to about 55 degrees centigrade or more, in 25 seconds or less. Systems for applying various types of mascara compositions are also disclosed.

Probable Assignee: ELC MANAGEMENT LLC

Earliest Publication Date: 20110929



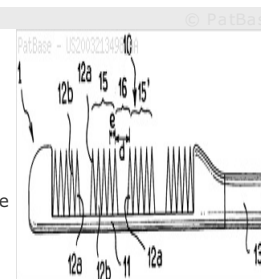
82) Family number: 29735811 (US2003213498A)

DEVICE FOR COMBING AND/OR BRUSHING EYELASHES AND/OR EYEBROWS, AND/OR FOR APPLYING MAKEUP THERETO

Abstract: Source: US2003213498A A device and method for combing eyelashes and/or eyebrows, and/or for applying makeup to eyelashes and/or eyebrows is disclosed. One exemplary device has a support and at least one row of projecting elements on the support. The row has a first group of the projecting elements and a projecting element outside the first group, the projecting element outside of the first group being spaced apart from the first group by a gap. The projecting elements can separate the eyelashes and/or eyebrows, while the gaps can group the eyelashes and/or eyebrows.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20030910



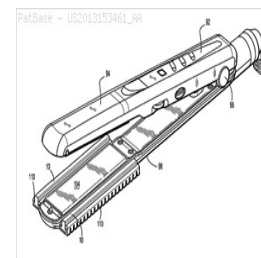
83) Family number: 54124235 (US2013153461A)

HAIR TREATMENT ACCESSORY

Abstract: Source: US2013153461A A hair treatment accessory for use with a hair styling apparatus includes a substrate base for mounting to a hair styling apparatus and a treatment agent disposed on the substrate base. The treatment agent is applied to one of the hair or skin of a subject during use of the hair styling apparatus. The treatment agent may include a conditioning, strengthening, repairing or revitalizing fluid. The treatment agent may include a conditioning oil. The conditioning oil may include ARGAN oil with or without silicon. The substrate base may include an irregular surface dimensioned to assist in retention of the treatment agent on the substrate base. The irregular surface may include open cells or channels. The irregular surface may be formed through a sintering process.

Probable Assignee: CONAIR CORP

Earliest Publication Date: 20130620



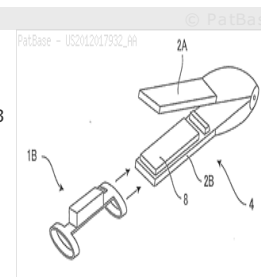
84) Family number: 47019487 (US2012017932A)

HAIR TREATMENT AGENT-HOLDER, HAIR STYLING DEVICE AND HAIR STYLING METHOD

Abstract: Source: US2012017932A There is disclosed a hair treatment agent-holder 1A which is a holder impregnated with a hair treatment agent to hold the same therein, and the holder is provided with a base material 3 capable of being impregnated with the hair treatment agent to hold the same therein, detachably attached to hair styling means for styling hair, and formed to enable the outflow of the hair treatment agent. There can be provided a hair treatment agent-holder which facilitates hair-surface conditioning by the hair treatment agent and promotes the penetration of the hair treatment agent into the hair to achieve a treatment effect, a hair styling device, and a hair styling method. It becomes possible not only to easily handle the hair treatment agent but also to improve a workability.

Probable Assignee: KIKUBOSHI CORP

Earliest Publication Date: 20101007



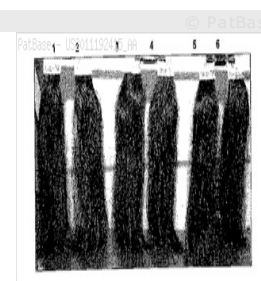
85) Family number: 44520197 (US2011192415A)

HAIR STYLING METHOD

Abstract: Source: US2011192415A Provided is a method for styling mammalian hair that includes contacting the hair with a composition that includes a poly(vinylamine-vinylformamide) copolymer and a first carrier, contacting the hair with a composition that includes a bisulfite and a second carrier, and styling the hair. The method of the present invention promotes improved hair styling properties such as improved curl retention and straightness retention, e.g., under conditions of high relative humidity and temperature. The method can be used for semi-permanently straightening or curling the hair. Also provided is a method for controlling fizz by applying the copolymer and bisulfite compositions.

Probable Assignee: ALBERTO CULVER CO

Earliest Publication Date: 20100311



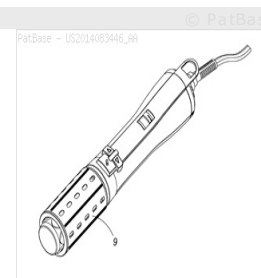
86) Family number: 51483688 (US2014083446A)

HAIR ROLLER WINDER

Abstract: Source: US2014083446A The present invention relates to a motorized hair roller winder, comprising a handle and a rotary drum driven by a motor allowing, during use, to wind a lock of hair around said hair roller fixed beforehand on the winder, characterized in that said winder comprises integrated heating means allowing to heat the hair roller until said hair roller is removed from the rotary drum.

Probable Assignee: BABYLISS FACO SPRL

Earliest Publication Date: 20120704



87) Family number: 30360503 (US2004047672A)

PACKAGED HAIR COLOR COMPOSITION AND METHOD FOR COLORING HAIR

Abstract: Source: US2004047672A A packaged hair color composition comprising a flowable aqueous semi-permanent hair dye composition contained in a container having a porous dispensing outlet which is operable to express the flowable aqueous hair dye composition onto the hair to be colored, a method for coloring hair, a method for touching up hair color between oxidative coloring procedures, and a kit for use in coloring the hair and touching up the hair color between oxidative coloring procedures.

Probable Assignee: REVLON CONSUMER PRODUCTS CORP

Earliest Publication Date: 20040311



88) Family number: 52063480 (US2012246851A)

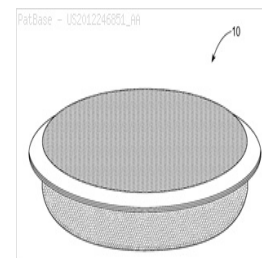
PERSONAL CARE ARTICLES AND METHODS

Abstract: Source: US2012246851A A personal care article can include a composition and a substrate. The article can be compliant to a surface.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20121004





89) Family number: 50505581 (US2013118520A)

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PROCESS FOR SEMIPERMANENT STRAIGHTENING OF CURLY, FRIZZY OR WAVY HAIR

Abstract: Source: US2013118520A The invention relates to a treatment of human hair by means of solutions of Glyoxylic acid that, when used in combination with mechanical straightening by means of hair-straightening irons set at a temperature of approximately 200 degrees centigrade +/-30 degrees centigrade, allow for semipermanently changing the shape of hair from curly and/or frizzy to straight for at least six consecutive washings with water and shampoo.

Probable Assignee: KAO CORP

Earliest Publication Date: 20120121

90) Family number: 51042654 (US2012114585A)

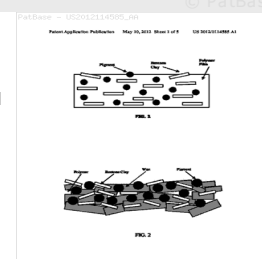
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SEMI-PERMANENT MASCARA COMPOSITIONS

Abstract: Source: US2012114585A A semi-permanent mascara composition for use on eyelashes and/or eyelids that includes from 17 percent to 30 percent, by weight, of a film former selected from the group consisting of tall oil glyceride, pentaerythrityl rosinat, glyceryl rosinat, and the hydrogenated versions and mixtures thereof. Further there is from 0.1 percent to 14 percent, by weight, of a colorant and from 10 percent to 15 percent, by weight, of disteardimonium hectorite, and less than about 3 percent of wax. The semi-permanent mascara composition is long lasting and has excellent wear characteristics.

Probable Assignee: NOXELL CORP

Earliest Publication Date: 20120503



91) Family number: 3613299 (US4358660A)

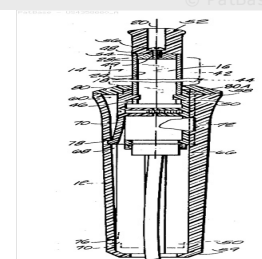
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COLLAPSIBLE ELECTRIC HAIR CURLING IRON

Abstract: Source: US4358660A A collapsible electric curling iron includes an elongated hollow handle open at one end and an elongated, generally cylindrical heat conductive housing mounted on the handle for movement between an operative use position where the housing extends out of the handle through the open end and an inoperative storage position where the housing is confined within the handle. A cap on the inner end of the housing cooperates with a collar and guides on the handle to prevent side-to-side or "rocking" movement of the housing in a direction transverse to the longitudinal axis of the handle during movement between the operative and inoperative positions. The housing has a longitudinal bore, generally polygonal in transverse cross section, which accommodates a thin planar electric heating element placed diagonally across the bore and having side edges engaged in diametrically spaced corners of the bore. Hair grooming members in the form of rows of aligned combing teeth or bristles are removably received in longitudinal grooves in the outer peripheral surface of the housing.

Probable Assignee: ANDIS CO RACINE WIS A CORP OF

Earliest Publication Date: 19810415



92) Family number: 55802502 (US2014047727A)

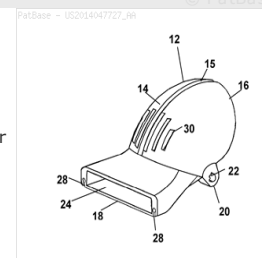
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HAIR DRYER ATTACHMENT

Abstract: Source: US2014047727A A blow dryer attachment for vectoring directional flow of an airstream exiting a barrel of a blow dryer. The attachment features at least two body components in an articulated engagement having a central passage which may be curved by such articulation to reposition and exit aperture in a nozzle end opposite a connection to a blow dryer. A flexible coupling may be provided as an interface to connect the device to a broader range of blow dryers. A rotational engagement of the first component to the blow dryer allows for rotation of the exit aperture around the axis of the blow dryer barrel for additional adjustment of the angle and direction or vector angle of the exiting airstream from the attachment.

Probable Assignee: EDWARDS SERAFINO

Earliest Publication Date: 20140220



93) Family number: 66935586 (US2017258202A)

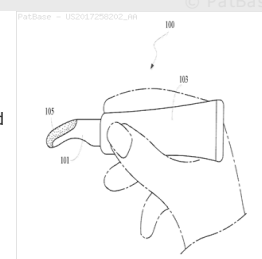
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SYSTEMS FOR APPLYING COSMETIC COMPOSITIONS

Abstract: Source: US2017258202A Described herein is a cosmetic system for applying a cosmetic composition including a cosmetic applicator and a cosmetic composition, where the cosmetic applicator includes a container configured to store the cosmetic composition, an applicator head having a non-linear shape with a proximal end and a distal end, and a slit along an axis of the applicator head, the distal end connected to the container.

Probable Assignee: LOREAL SA

Earliest Publication Date: 20170914



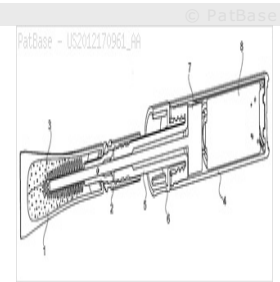
94) Family number: 51433181 (US2012170961A)

SYSTEM FOR SAMPLING A HEATED PRODUCT

Abstract: Source: US2012170961A A system for sampling a heated product comprising a disposable first subassembly and a physically separate reusable second subassembly. Prior to use, the two subassemblies are able to form a rigid connection. As a result of forming this connection, a portion of an electric heating circuit is inserted into an interior space of an applicator head. After forming the connection, the first subassembly is broken, the electric heating circuit is turned on, and the applicator head is used to apply product.

Probable Assignee: ELC MANAGEMENT LLC

Earliest Publication Date: 20120705



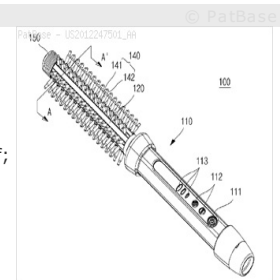
95) Family number: 49151028 (US2012247501A)

HAIRSTYLING BRUSH IRON

Abstract: Source: US2012247501A The present invention relates to a hairstyling brush iron which applies heat to the hair of a user to set a desired hair style, and which can protect the scalp of the user from heat. The hairstyling brush iron according to one embodiment of the present invention comprises; and iron roll which is heated up to a high temperature, and the outer surface of which has a plurality of grooves formed in a lengthwise direction thereof; and a brush which is coupled to the iron roll by coupling a lower portion thereof to the grooves of the iron roll. The brush includes at least one heat transfer unit, the interior of which has a hollow hole formed in a vertical direction, and which is coupled to the grooves of the iron roll; and at least one heat shield unit which is coupled to the hollow hole of the heat transfer unit, and which is exposed through the upper portion of the heat transfer unit.

Probable Assignee: CHOI MYUNG PYO BUCHEON SI

Earliest Publication Date: 20110630



96) Family number: 49468002 (US2012312317A)

PROCESS FOR SEMI-PERMANENT STRAIGHTENING OF CURLY, FRIZZY OR WAVY HAIR

Abstract: Source: US2012312317A The process of the invention provides for a preventive hair treatment with buffering agent, in particular glyoxylic acid in combination with mechanical straightening with hair straightening iron at temperature of approximately 200 degrees centigrade +/-50 degrees centigrade

Probable Assignee: KAO CORP

Earliest Publication Date: 20110825

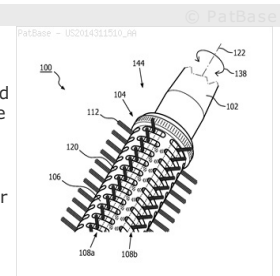
97) Family number: 51715212 (US2014311510A)

HAIRBRUSH DEVICE HAVING A VARIABLE STIFFNESS OF BRUSH FILAMENTS

Abstract: Source: US2014311510A A hairbrush device (100) comprises a first plurality of brush filaments (112) and a second plurality of brush filaments (116). A property of the first plurality of brush filaments (112) and a respective property of the second plurality of brush filaments (116) are different from one another. In order to reversibly select a stiffness of the hairbrush device, the hairbrush device (100) comprises an actuation element (104) being in driving connection with the first and second plurality of brush filaments (11, 116) and configured for being actuable for selecting the first plurality of brush filaments (112) or the second plurality of brush filaments (116) for a use.

Probable Assignee: PHILIPS ELECTRONICS KONINKLL NV

Earliest Publication Date: 20120809



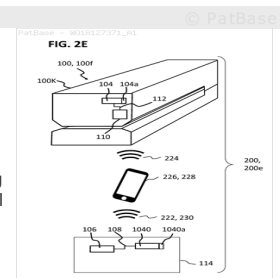
98) Family number: 70333042 (WO18127371A1)

HAIR TREATMENT APPARATUS, HAIR TREATMENT SYSTEM AND METHOD FOR COSMETICALLY TREATING HAIR

Abstract: Various exemplary embodiments of a hair treatment apparatus are provided. The hair treatment apparatus can have an apparatus body, at least one sensor, which is arranged in or on the apparatus body, for detecting a state of hair parameter, and an electronic circuit apparatus which is arranged in or on the apparatus body, wherein the electronic circuit apparatus can be coupled to the at least one sensor for the purpose of receiving the detected state of hair parameter, and wherein the electronic circuit apparatus can further be designed to control at least one hair treatment parameter and/or to meter at least one hair treatment agent and/or to provide a hair treatment recommendation based on the received detected state of hair parameter.

Probable Assignee: HENKEL AND CO KGAA AG

Earliest Publication Date: 20180705



99) Family number: 31024003 (US4883657A)

REARRANGER PROCESS AND COMPOSITION FOR PERMANENT WAVING PROCESS

Abstract: Source: US4883657A An improved rearranging composition and permanent waving process is disclosed. The improved waving process produces hair that is characterized as thicker, more full bodied with improved humectant properties and requiring significantly less maintenance than is typically required when conventional waving processes are used. The waving process is a step by step procedure involving the addition of a rearranger, a wrapping lotion, and a neutralizer, in combination with intermittent rinsing. The improved quality and settability of the hair is believed to be attributable to the improved rearranging composition. The rearranging composition comprises a homogeneous mixture of a salt of thioglycolic acid and a homopolymer of methylacrylamidopropyltrimethyl ammonium chloride (MAPTAC). A preferred rearranging composition includes a weight ratio of ammonium thioglycolate to monoethanolamine thioglycolate of from about 4:6 to about 7:3 and between about 1.0 to about 3.0 percent by weight of a cationic homopolymer of MAPTAC. The rearranging composition should also be pH adjusted to between about 3.0 to about 10.5.

Probable Assignee: AMETHYST INVESTMENT GROUP INC

Earliest Publication Date: 19890824

