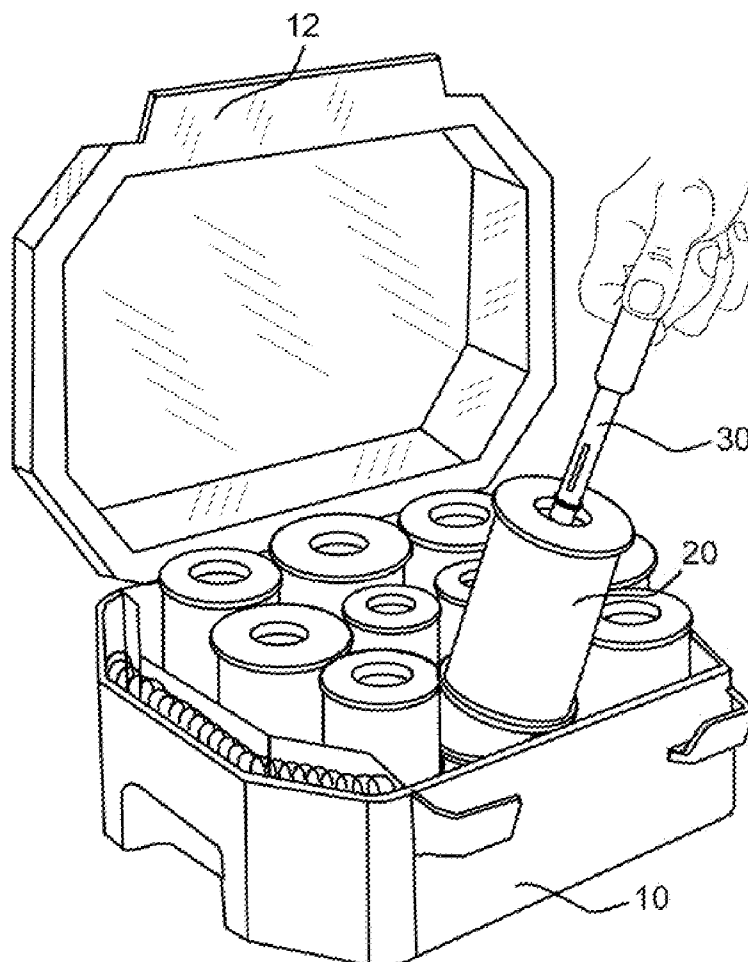




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Wagner(10) **Pub. No.: US 2016/0015142 A1**(43) **Pub. Date: Jan. 21, 2016**(54) **HEATED HOT ROLLER SET***A45D 6/04* (2006.01)*A45D 4/16* (2006.01)(71) Applicant: **Carole Lynn Wagner**, Berkeley, MI
(US)(52) **U.S. Cl.**
CPC .. *A45D 4/08* (2013.01); *A45D 4/16* (2013.01);
A45D 7/02 (2013.01); *A45D 6/04* (2013.01)(72) Inventor: **Carole Lynn Wagner**, Berkeley, MI
(US)(21) Appl. No.: **14/751,522**(22) Filed: **Jun. 26, 2015****Related U.S. Application Data**(60) Provisional application No. 62/017,960, filed on Jun.
27, 2014.**Publication Classification**(51) **Int. Cl.**
A45D 4/08 (2006.01)
A45D 7/02 (2006.01)**ABSTRACT**

The invention comprises a roller set for hair care having a set of heated rollers, each roller having a diameter of at least 2 inches, a roller magnet disposed at an end of the roller and a detachable handle capable of insertion into a center of each roller, a release switch on the handle and a handle magnet attached to the end of the handle to secure the handle to the roller, wherein the roller magnet is attracted to the handle magnet and acts to guide the handle into alignment with the center of the roller. The roller set provide a method of volumizing hair comprising the steps of Inserting a handle into a heated roller, the roller having a diameter of at least 2 inches, removing a heated roller from a heated base using the handle and applying the roller nearly adjacent a root of the hair in order to smooth and volumize the hair.



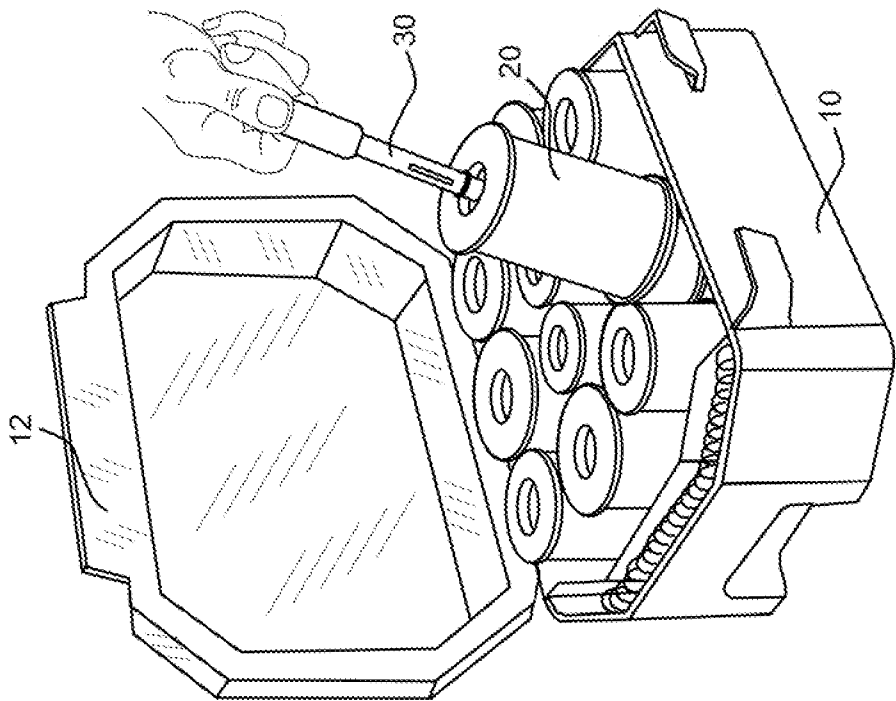


FIG. 1

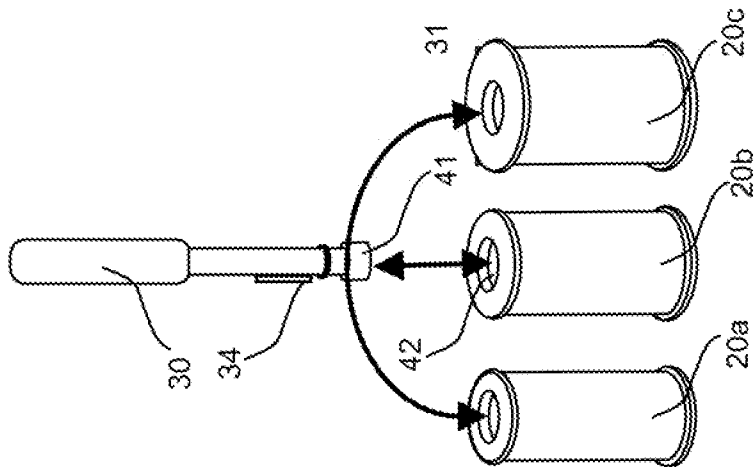


FIG. 2

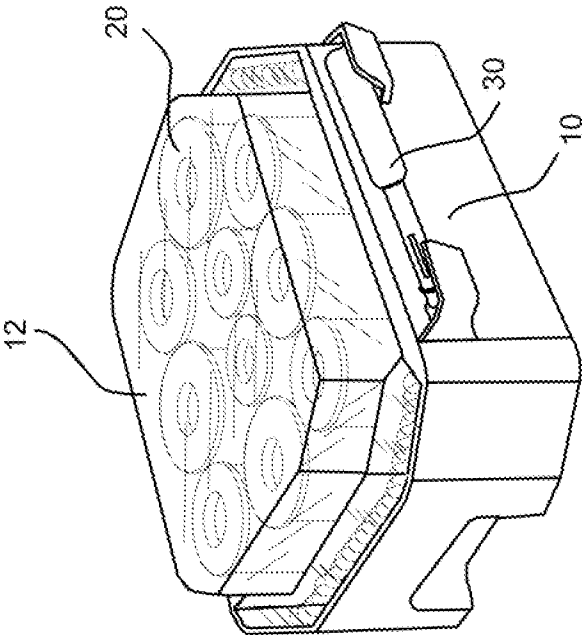


FIG. 4

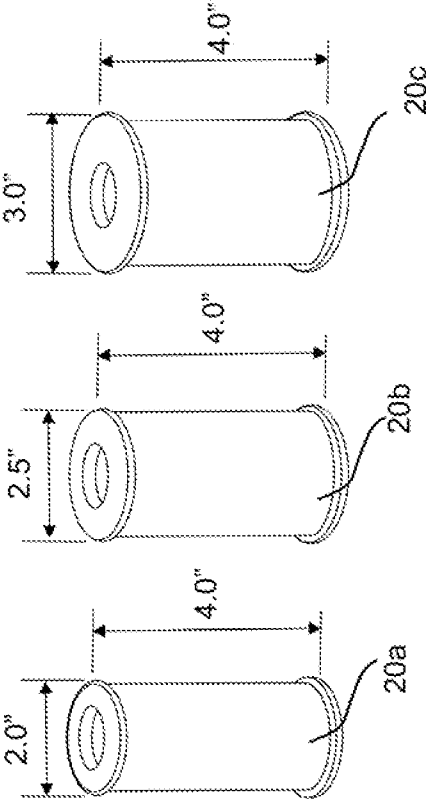


FIG. 3

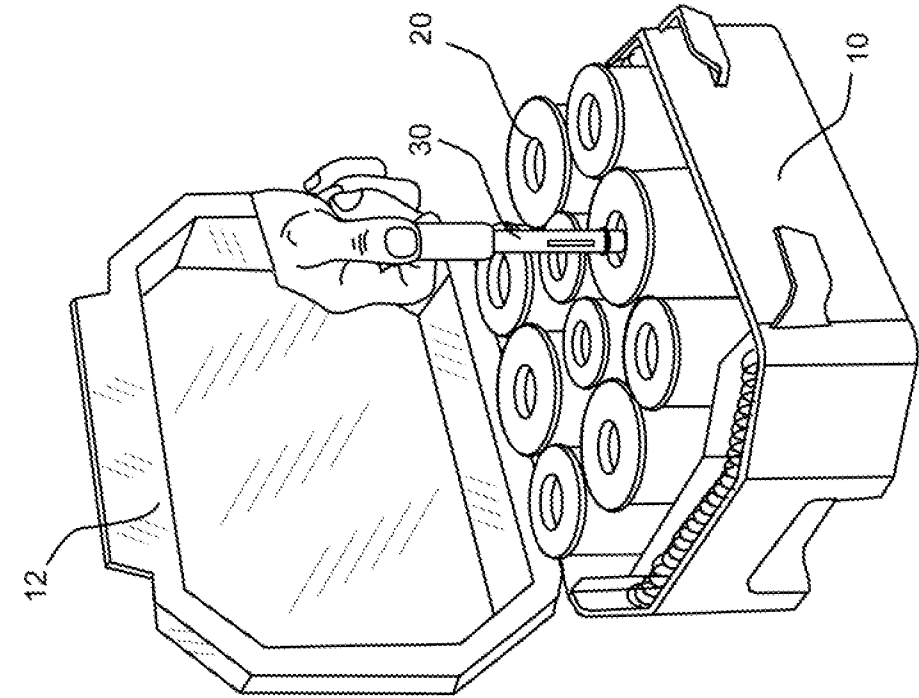


FIG. 5

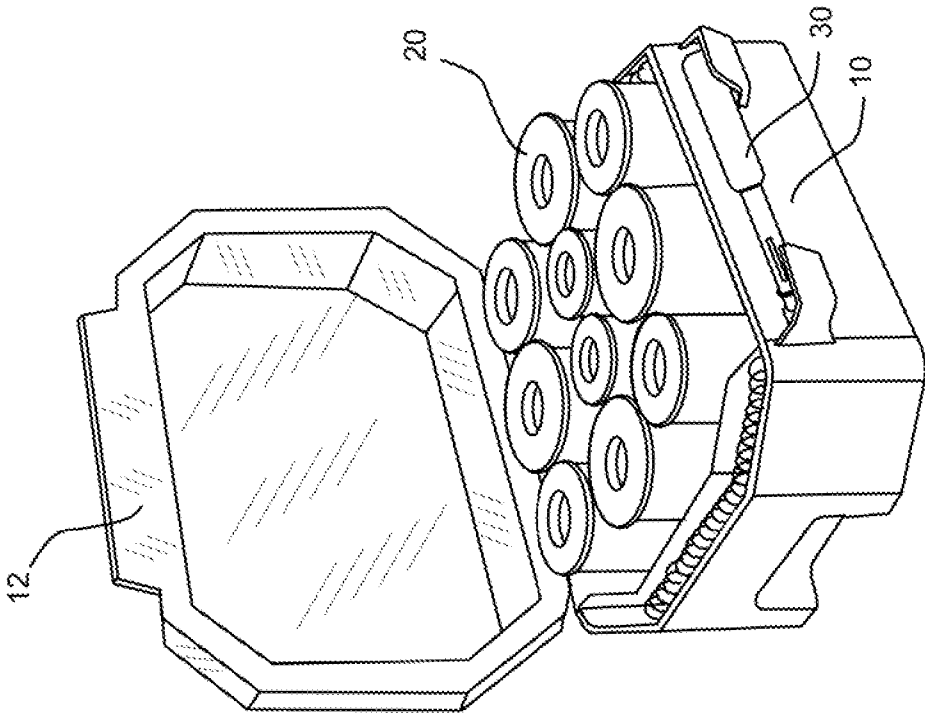


FIG. 6

HEATED HOT ROLLER SET

[0001] This application claims priority to Provisional application No. 62/017,960 filed Jun. 27, 2014.

[0002] The present invention pertains to a heated hot roller set for use at home that allows for the volumization of hair using a round brush roller set to enable the user to have a round brush blow-dry look with minimal time and effort.

BACKGROUND

[0003] The only hot rollers on the market today only curl hair and do not give lift at the root for volume. The roller sizes available now are too small to give the hair volume like a blow-dry. The biggest roller sizes on the market are 1.5 inches and fail to volumize hair. The present invention will enable the user to have a round brush blow-dry look with minimal time and effort.

[0004] Another term for parts of hygiene and cosmetology involving the hair on the human head is called Hair Care. Hair care will vary according to the individual's hair type. Hair care includes men's and women's facial, pubic, and other body hair, which may be colored, trimmed, shaved, plucked, or otherwise removed with treatments such as waxing, sugaring, and threading. These services are offered in salons, barbershops, and day spas, and there are hair care products that are available commercially for home use.

[0005] Hair Care also includes treatment given to hair. It includes heavy conditioners for the rescue of severely damaged hair, hot oil treatments, scalp refreshers that relieve irritations caused by the hardness of hair relaxers, hair bleach etc. It also includes washing of hair which removes excess heat and oil, as well as unwanted products from the hair and scalp.

[0006] Hairstyling equipment which helps in creating hairstyles include blow dryer, butterfly clips, comb, hair roller, hairpin, hairbrush, etc. Hair products or the cosmetic products used in creating and maintaining hairstyles include hair coloring, hair conditioner, hair gel, hair spray, hair tonic, etc.

[0007] Among all the Personal Care and Cosmetics market, the hair care industry is highly competitive and dynamic. Companies in this industry operate hair salons and barber-shops that provide shampoo, haircuts, beard trimming and hair coloring services. The present invention may be used to compliment each of the above mentioned products and services for use in the Personal Care Cosmetics Market.

SUMMARY

[0008] The invention provides a roller set for hair care comprising a set of heated rollers, each roller having a diameter of at least 2 inches and a detachable handle capable of insertion into a center of each roller and a release switch on the handle. In an embodiment a handle magnet may be attached to the end of the handle to secure the handle to the roller, wherein the roller magnet is attracted to the handle magnet and acts to guide the handle into alignment with the center of the roller. In an embodiment a roller magnet is disposed at an end of the roller.

[0009] The roller may enable a user to smooth and volumize hair. The set of rollers may be of varying sizes between 2 inches and 4 inches in diameter. The set of rollers may include a first roller having a 2 inch diameter, a second roller having a 2.5 inch diameter and a third roller having 3 inch diameter. The center of each roller may have a uniform diameter and a single handle capable of being inserted into either

the first, second or third roller. The diameter of the center of each roller may be approximately $\frac{1}{2}$ inch.

[0010] Each of the rollers may have a length of approximately 4 inches and each roller has an axis and the length is measured parallel to the axis. The rollers may be housed in a heating base. The heating base may include a lid. The handle may be used to remove the roller from the heating base without a user's fingers touching the heated base. The heated base may house at least 8 rollers.

[0011] The invention further provides a method of volumizing hair comprising the steps of inserting a handle into a heated roller, the roller having a diameter of at least 2 inches, removing a heated roller from a heated base using the handle and applying the roller nearly adjacent a root of the hair in order to smooth and volumize the hair. The method further comprising the steps of applying the roller to a clump of hair, rotating the roller, curling the clump of hair adjacent the root of the clump of hair and volumizing the clump of hair without curling an end of the hair.

[0012] The method may further comprise the steps of releasing a switch on the handle, detaching the handle from a center of the roller, attracting a handle magnet attached to an end of the handle to a roller magnet attached to an end of the roller and guiding the handle into alignment with the center of the roller. The method may further comprise the steps of providing a set of rollers, a first roller having a 2 inch diameter, a second roller having a 2.5 inch diameter and a third roller having 3 inch diameter and inserting the handle within a center of one of the first, second or third rollers, the center of the first, second and third rollers having a uniform diameter so that the same handle may be used with any of the first, second or third rollers. The method may further comprise the step of replacing the first roller within the heated base by holding the handle and moving the handle over the heated base above a vacant spot within the heated base, pressing the release switch to release the handle from the first roller, withdrawing the handle from the center of the first roller, moving the handle over the second roller, inserting the handle into the center of the second roller, removing the second roller from the heated base using the handle and applying the second roller to a person's hair.

[0013] The handle may be secured within the center of the roller. The set of rollers may be attached to the heated base using one of a compression fit, a screw fit, a rotating lock fit, a flexible ball socket, a snap-fit and a finger engagement.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] FIG. 1 depicts a perspective view of rollers into a heating base;

[0015] FIG. 2 depicts a perspective view of a handle inserted for multiple sized rollers;

[0016] FIG. 3 depicts a perspective view of an example of 3 sizes of rollers;

[0017] FIG. 4 depicts a perspective view of a heating base with lid closed;

[0018] FIG. 5 depicts a perspective view of the heating base with lid open; and

[0019] FIG. 6 depicts a perspective view of a handle being used to remove a hot roller from.

[0020] While the invention is amenable to various modifications and alternate forms, specific embodiments have been shown by way of example in the drawings and will be described in detail, it should be understood that the intention is not to limit the invention to the particular embodiments

described. The intention is to cover all modifications, equivalents and alternatives falling within the spirit and the scope of the invention.

DETAILED DESCRIPTION

[0021] An embodiment of the present invention is depicted with respect to FIGS. 1-6. A round brush hot roller set is used to style women's hair in a manner that a professional hair stylist would create. It is a heated roller set that mimics the action of a round brush blow-dry, as it would in a salon. The set gives the 'home-stylist' the professional salon like 'the round brush blow-dry' look and volume. Larger volume rollers **20** (2-4") provide smooth and volumized hair, without curling a detachable handle **30** provides for ease, comfort and storage of the rollers **20**.

[0022] Heated rollers **20a,b,c** (FIG. 2&3) that are the actual size of round brushes and also have a detachable handle **30**. Handle **30** locks into center **31** of roller **20c** for easy application. The center **31** may have a diameter of approximately 1/2". A release switch **34** is on the handle **30** for a smooth transition of removing handle **30** from roller **20**. The switch **34** is depressed to provide one of a compression fit, a screw fit, a rotating lock fit, a flexible ball socket, a snap-fit and a finger engagement.

[0023] FIG. 1 depicts a roller **20** is being placed back into the heating base **10**. The heating base includes heating elements for each roller as are well known in the art. Each heating element includes a mounting platform for each roller to both hold the roller in place within the heating base and to provide the transfer of heat from the heating base to each roller **20**. FIG. 2 depicts the universal nature of the handle **30** that can be used for all size rollers **20a,b,c**. In an embodiment, the handle **30** is secured within the roller **20** by a rotating lock mechanism or a snap-fit assembly to fixedly attach the handle **30** to the roller **20**. By depressing the switch **34**, the handle **30** may be removed from the center **31** of the roller **20**.

[0024] FIG. 3 depicts an example of 3 sizes of rollers **20a,b,c** having a 2" diameter; 2.5" diameter, and 3" diameter, respectively and each roller is 4" in length. The length is measured along a side of the roller parallel to the axis of rotation running through the center **31** of each roller **20**. In an embodiment the rollers may range from 2-4." FIG. 4. depicts a heating base **10** with lid **12** closed. FIG. 5 depicts the heating base **10** with lid **12** open. FIG. 6 depicts a handle **30** being used to remove a hot roller **20**. Current roller products are designed to curl hair. The present design will enable the user to smooth and volumize hair.

[0025] An alternate option for the handle attachment is a magnet attached to the end of rollers **42** and also a magnet **41** on the end of the handle. This will secure the handle to the roller and allow for easy insertion and removal by aligning the roller magnet **42** with the center **31** of the roller **20** and the handle magnet **41**.

[0026] Numerous variations and modifications will become apparent to those skilled in the art once the above disclosure is fully appreciated. It is intended that the claims be interpreted to embrace all such variations and modifications.

What is claimed is:

1. A roller set for hair care comprising:

a set of heated rollers, each roller having a diameter of at least 2 inches; and

a detachable handle capable of insertion into a center of each roller and a release switch on the handle.

2. The roller set of claim 1 wherein the roller enables a user to smooth and volumize hair.

3. The roller set of claim 1 wherein the set of rollers are of varying sizes between 2 inches and 4 inches in diameter.

4. The roller set of claim 3 wherein the set of rollers includes a first roller having a 2 inch diameter, a second roller having a 2.5 inch diameter and a third roller having 3 inch diameter.

5. The roller set of claim 4 wherein the center of each roller having a uniform diameter and a single handle capable of being inserted into either the first, second or third roller.

6. The roller set of claim 5 wherein the diameter of the center of each roller is approximately 1/2 inch.

7. The roller set of claim 1 wherein each of the rollers have a length of approximately 4 inches.

8. The roller set of claim 1 further comprising a roller magnet disposed at an end of the roller and a handle magnet attached to the end of the handle to secure the handle to the roller, wherein the roller magnet is attracted to the handle magnet and acts to guide the handle into alignment with the center of the roller.

9. The roller set of claim 1 wherein the rollers are housed in a heating base.

10. The roller set of claim 9 wherein the heating base includes a lid.

11. The roller set of claim 9 wherein the handle may be used to remove the roller from the heating base without a user's fingers touching the heated base.

12. The roller set of claim 1 wherein the heated base houses at least 8 rollers.

13. A method of volumizing hair comprising the steps of; Inserting a handle into a heated roller, the roller having a diameter of at least 2 inches;

removing a heated roller from a heated base using the handle; and

applying the roller nearly adjacent a root of the hair in order to smooth and volumize the hair.

14. The method of claim 13 further comprising the steps of: applying the roller to a clump of hair;

rotating the roller;

curling the clump of hair adjacent the root of the clump of hair; and

volumizing the clump of hair without curling an end of the hair.

15. The method of claim 13 further comprising the steps of: releasing a switch on the handle;

detaching the handle from a center of the roller.

16. The method of claim 13 further comprising the steps of: attracting a handle magnet attached to an end of the handle to a roller magnet attached to an end of the roller and guiding the handle into alignment with the center of the roller.

17. The method of claim 13 further comprising the steps of: providing a set of rollers, a first roller having a 2 inch diameter, a second roller having a 2.5 inch diameter and a third roller having 3 inch diameter; and

inserting the handle within a center of one of the first, second or third rollers, the center of the first, second and third rollers having a uniform diameter so that the same handle may be used with any of the first, second or third rollers.

18. The method of claim 17 further comprising the step of replacing the first roller within the heated base by holding the

handle and moving the handle over the heated base above a vacant spot within the heated base,;

pressing the release switch to release the handle from the first roller;

withdrawing the handle from the center of the first roller;

moving the handle over the second roller;

inserting the handle into the center of the second roller;

removing the second roller from the heated base using the handle; and

applying the second roller to a person's hair.

19. The method of claim 17 wherein the handle is secured within the center of the roller using one of a compression fit, a screw fit, a rotating lock fit, a flexible ball socket, a snap-fit and a finger engagement.

20. The method of claim 17 wherein set of rollers are attached to the heated base using one of a compression fit, a screw fit, a rotating lock fit, a flexible ball socket, a snap-fit and a finger engagement.

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