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(54) **RAZOR HANDLE**

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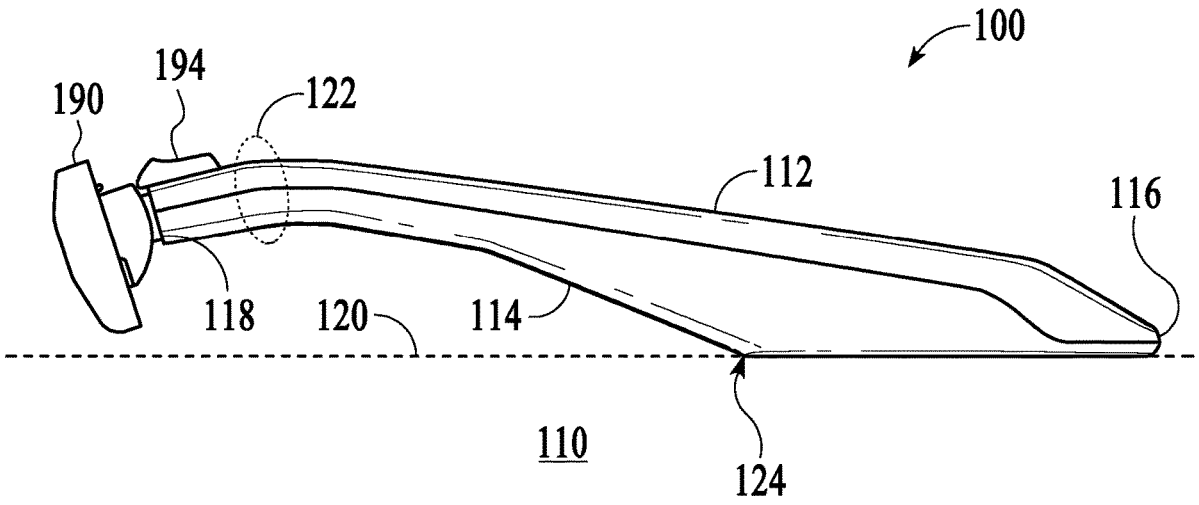
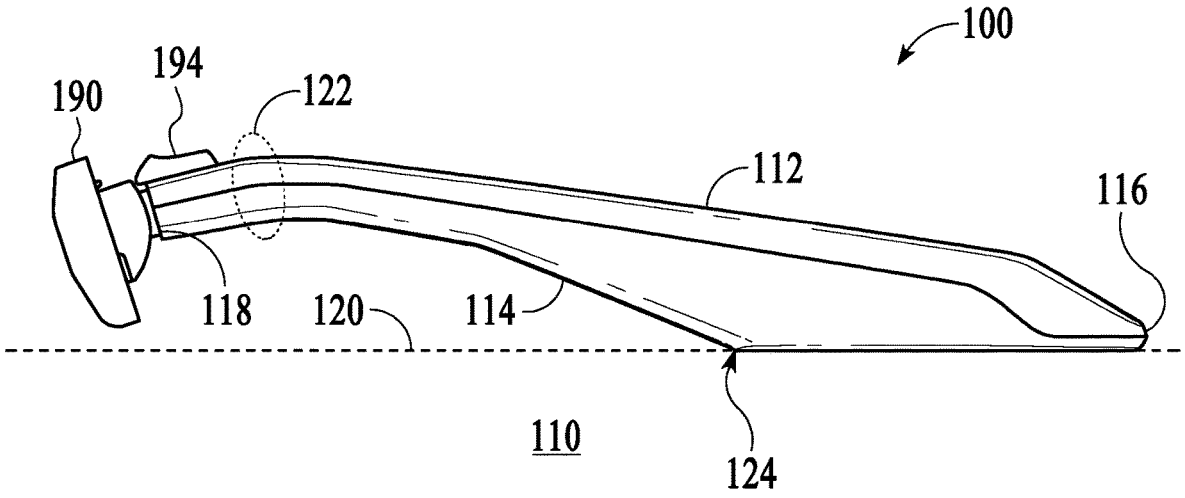
CPC ***B26B 21/52*** (2013.01); *B26B 21/225* (2013.01); ***F16M 13/02*** (2013.01); ***B26B 21/521*** (2013.01)

(57) **ABSTRACT**

A razor handle with a counterbalance of a weight and/or magnet disposed therein are disclosed. The handle may include upper and lower enclosures extending between two opposing ends and may be divided into two parts: a base and an arm. The weight and/or magnet may be disposed within the base and between the upper and lower enclosures, and a horizontal length of the base may be less than the horizontal length of the arm. The counterbalance creates a center of mass of the base which is horizontally closer to a pivot surface than a center of mass of the arm. As a result, whenever a lower surface of the arm or a surface of an upper enclosure is placed in a resting position on a horizontal surface when the razor is not employed by a user, a cartridge coupled to the razor handle will not contact the horizontal surface.




100
190
194
122
112
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124

FIG. 1A

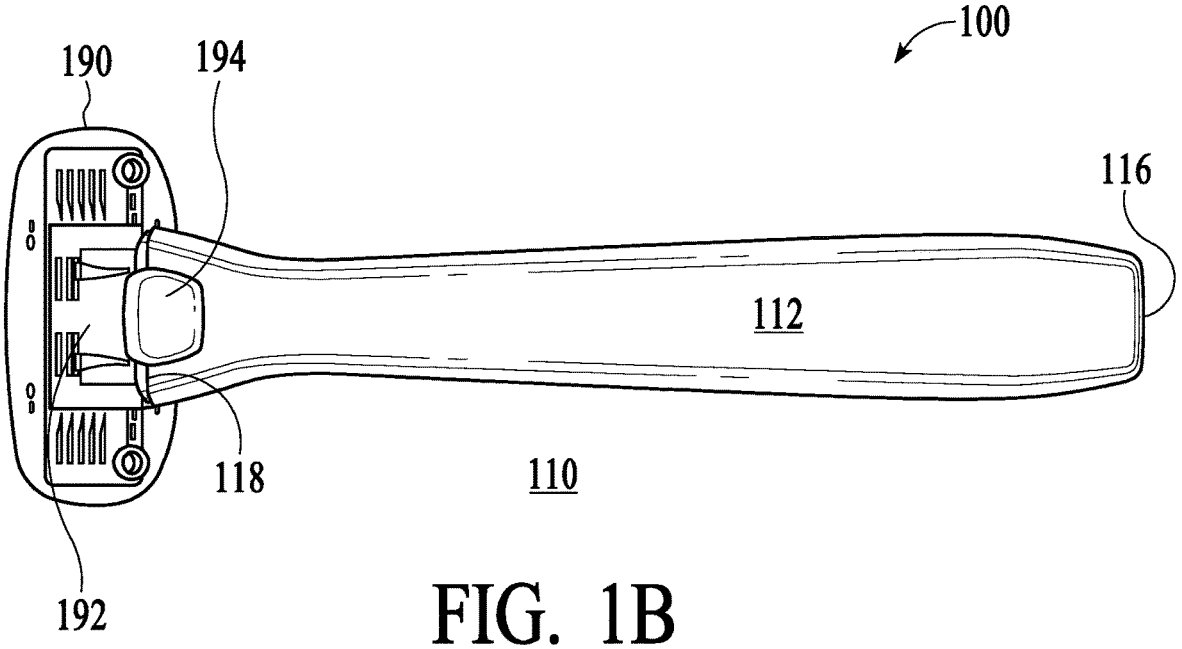
100
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FIG. 1B

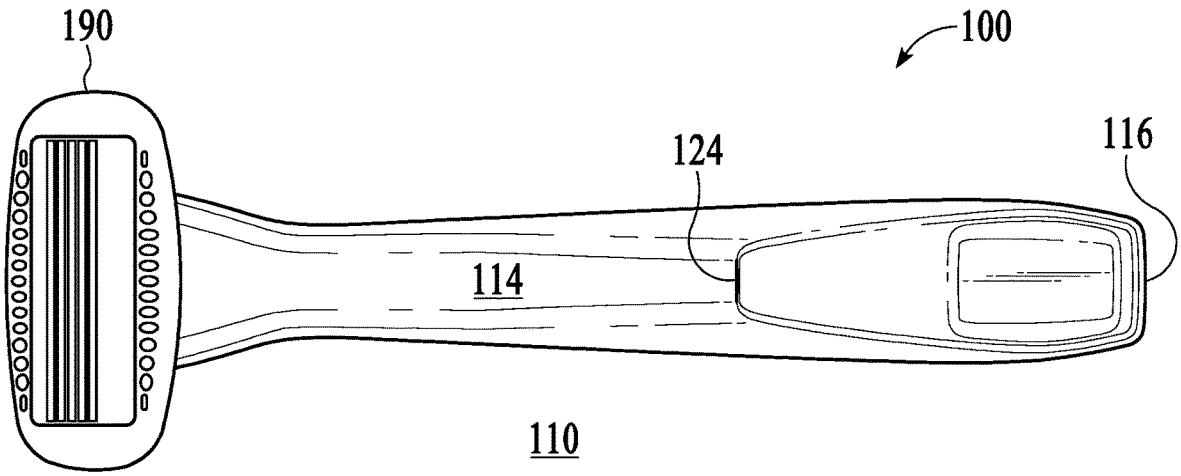

FIG. 1C

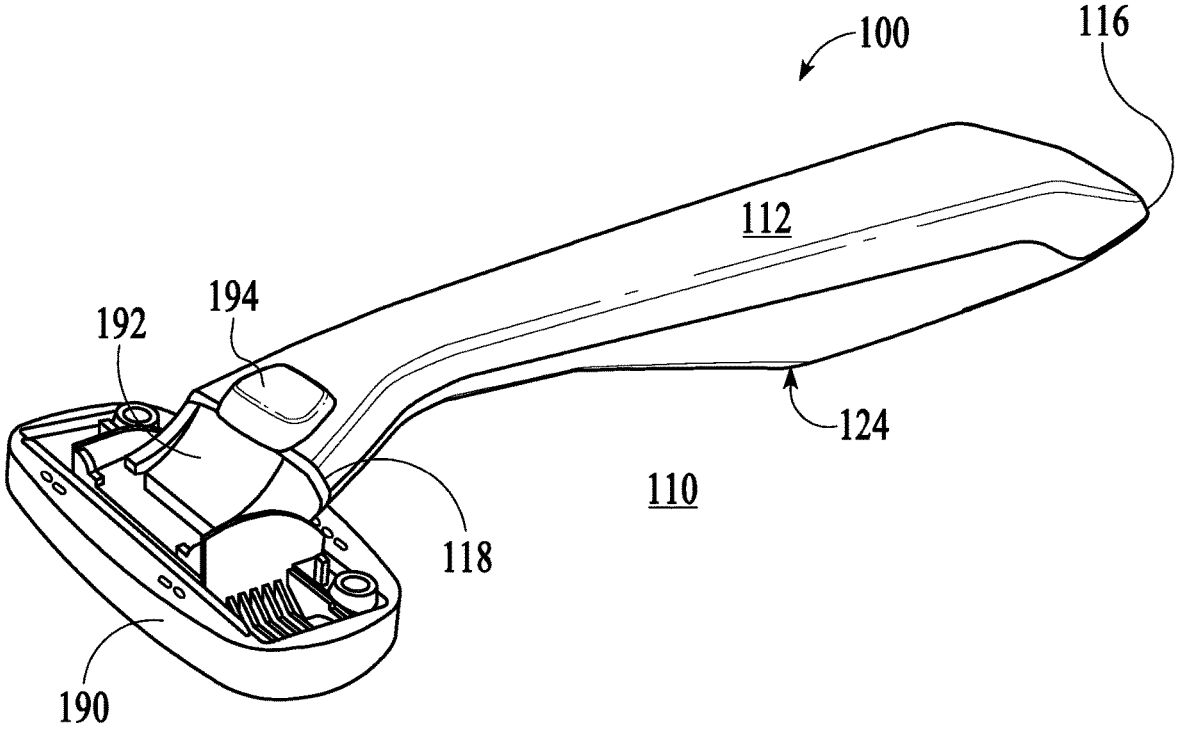

FIG. 1D

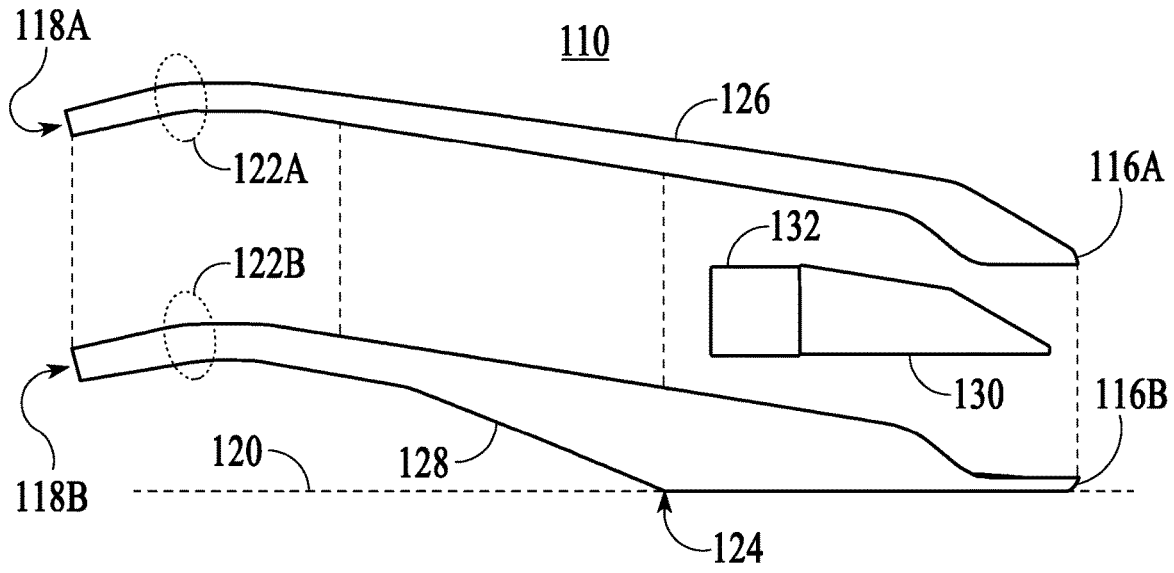
118A
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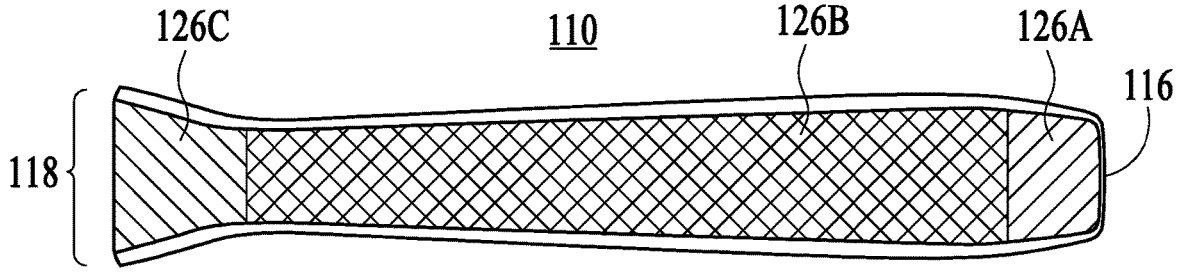
FIG. 2A


126C
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126B
126A
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FIG. 2B

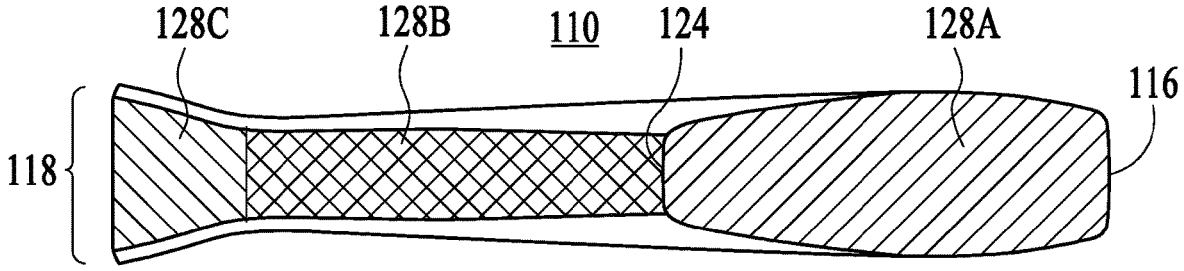

FIG. 2C

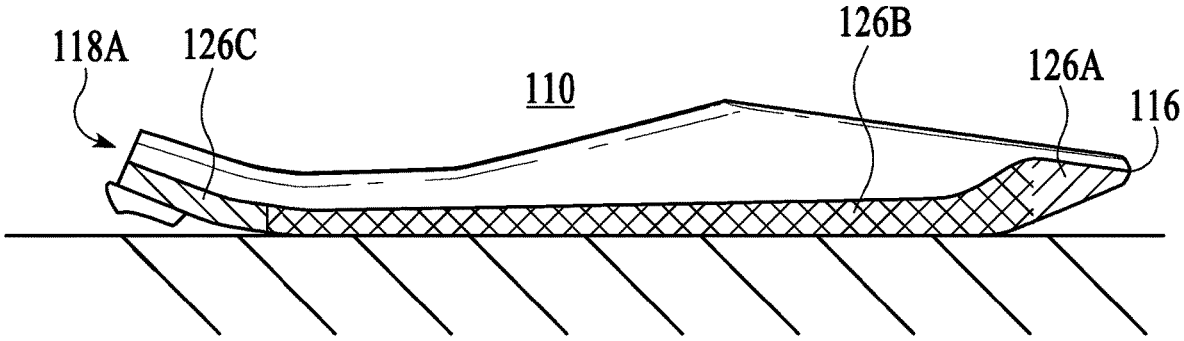

FIG. 2D

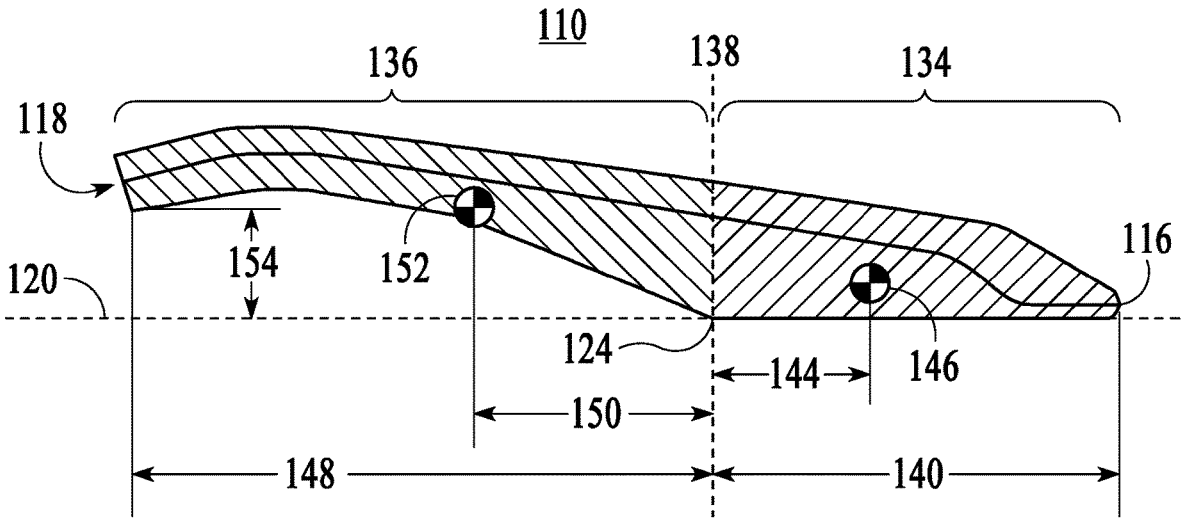

FIG. 3A

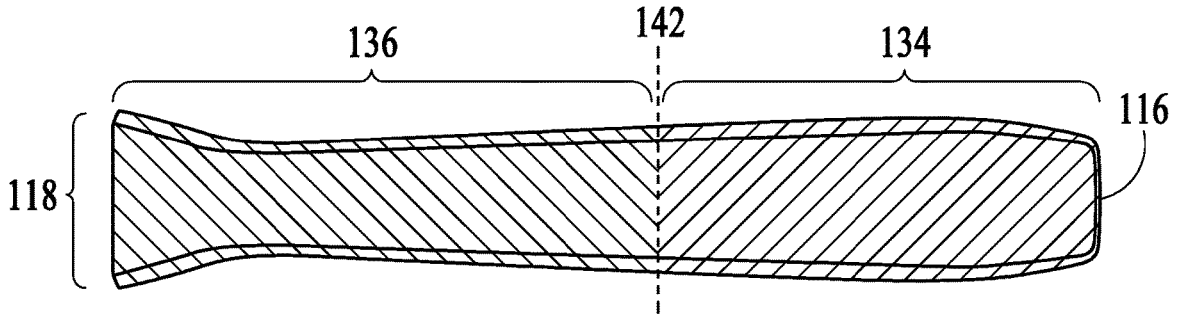

FIG. 3B

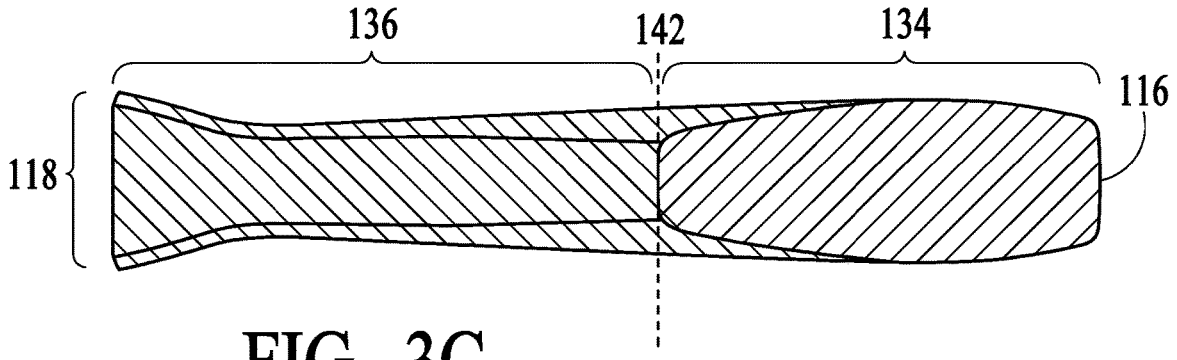

FIG. 3C

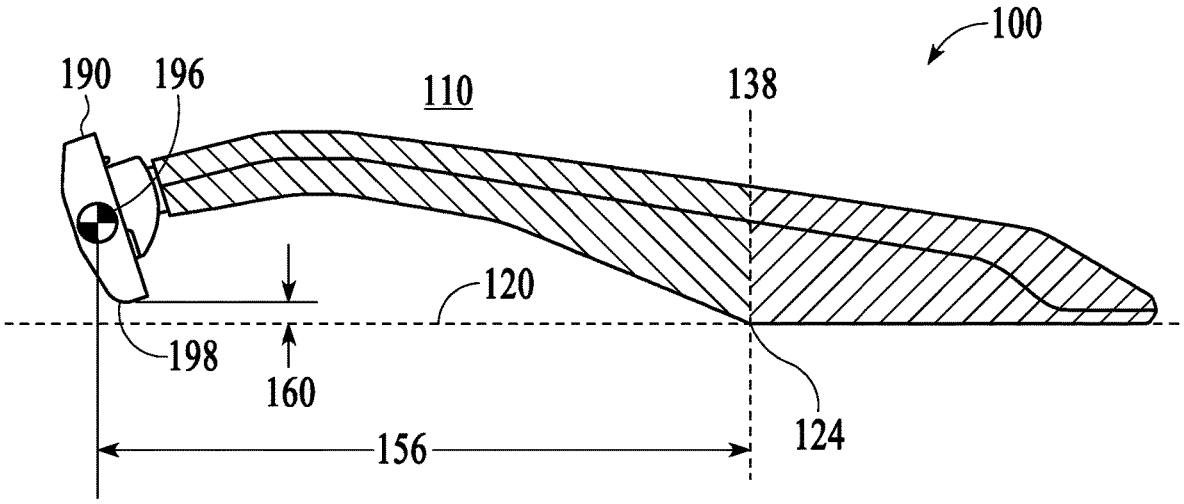
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FIG. 3D

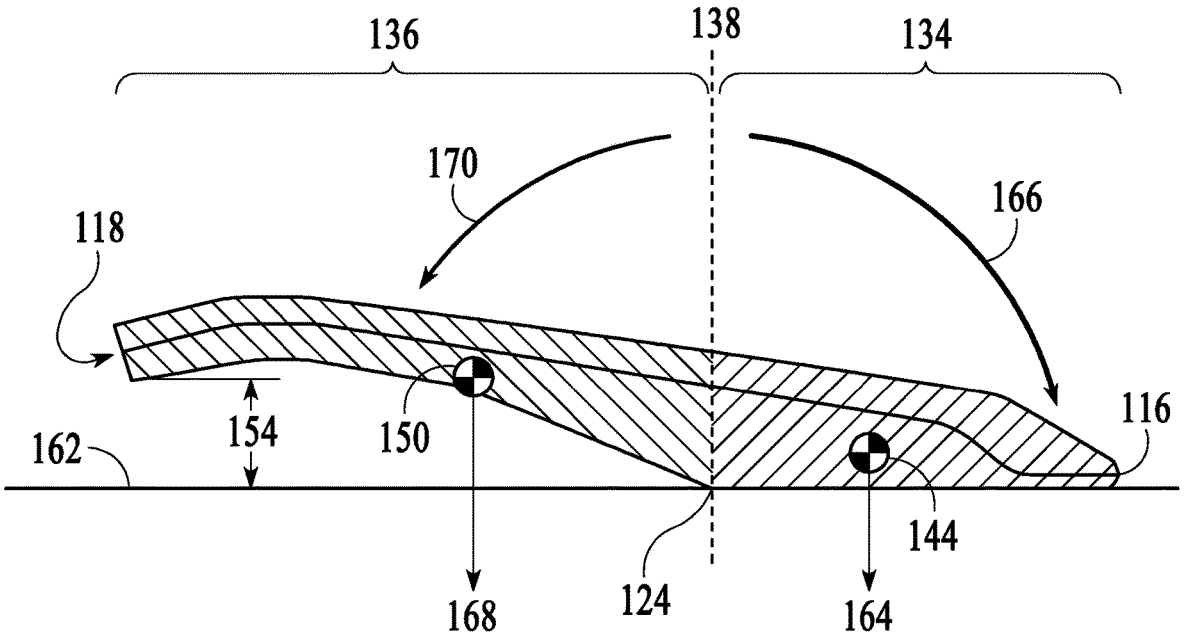
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FIG. 4A

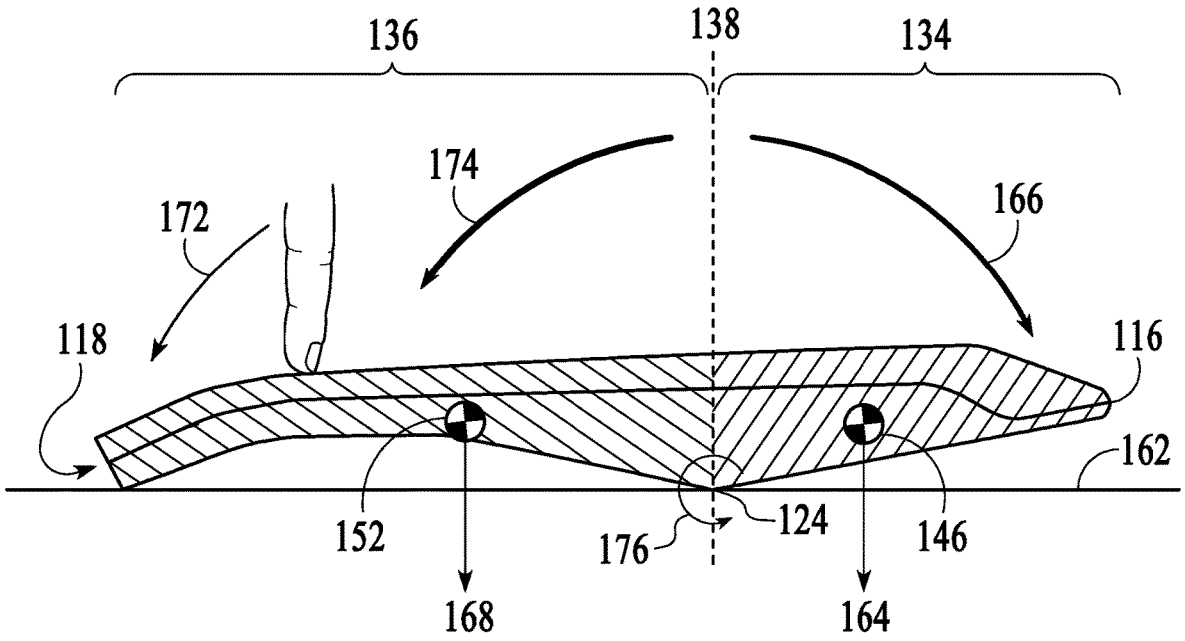
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FIG. 4B

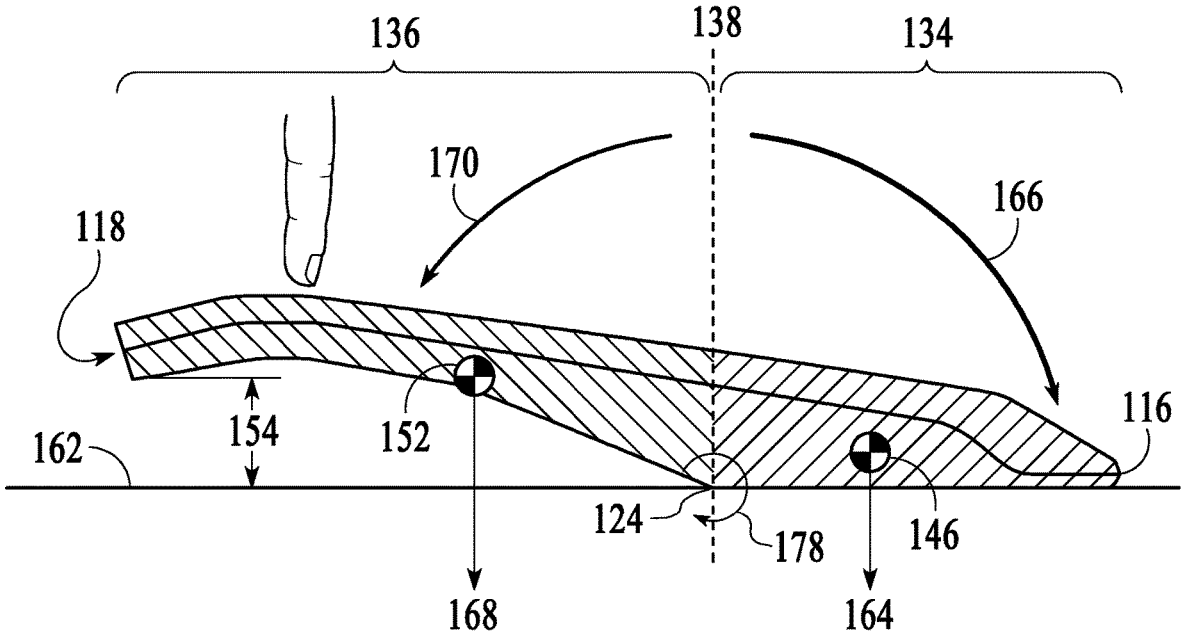
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FIG. 4C

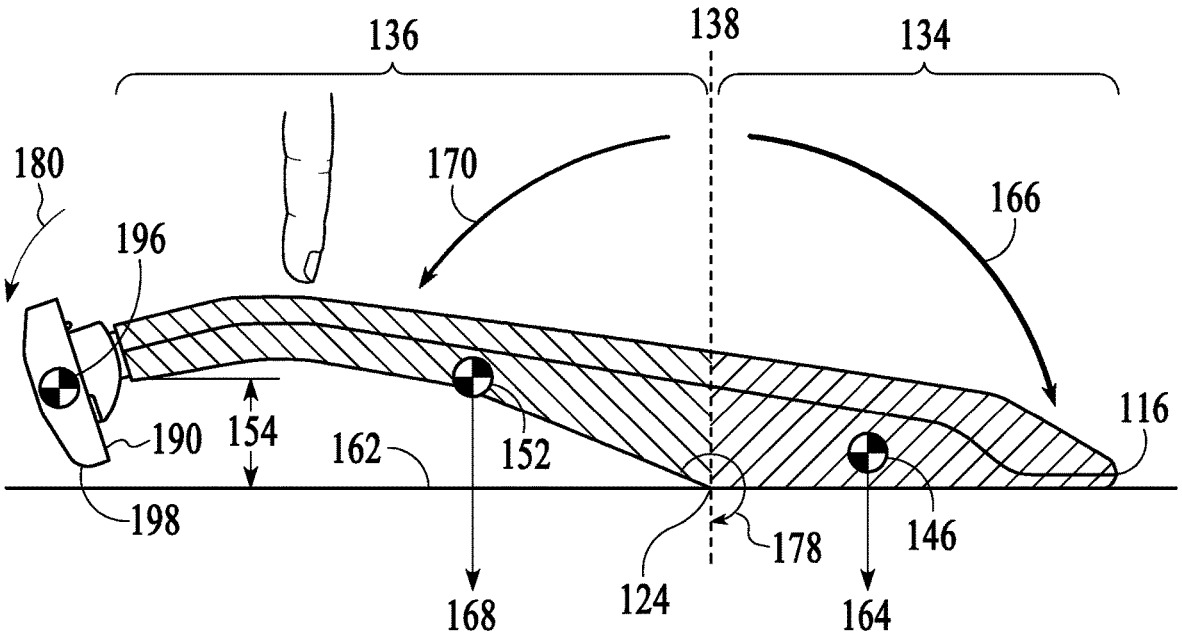
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FIG. 4D

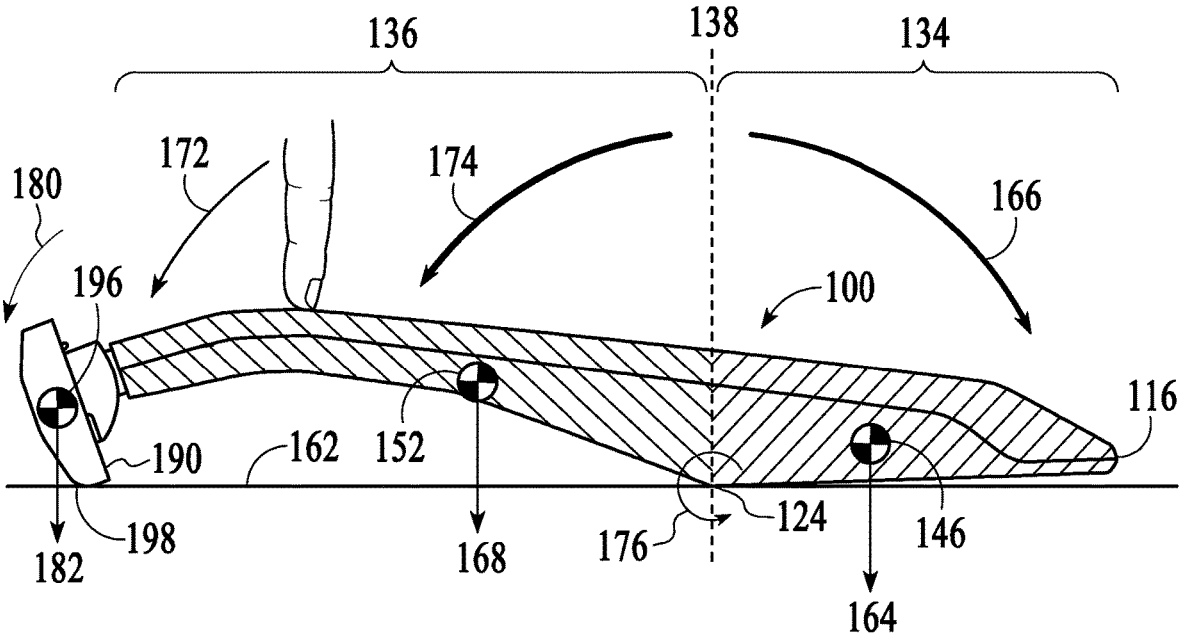
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FIG. 4E

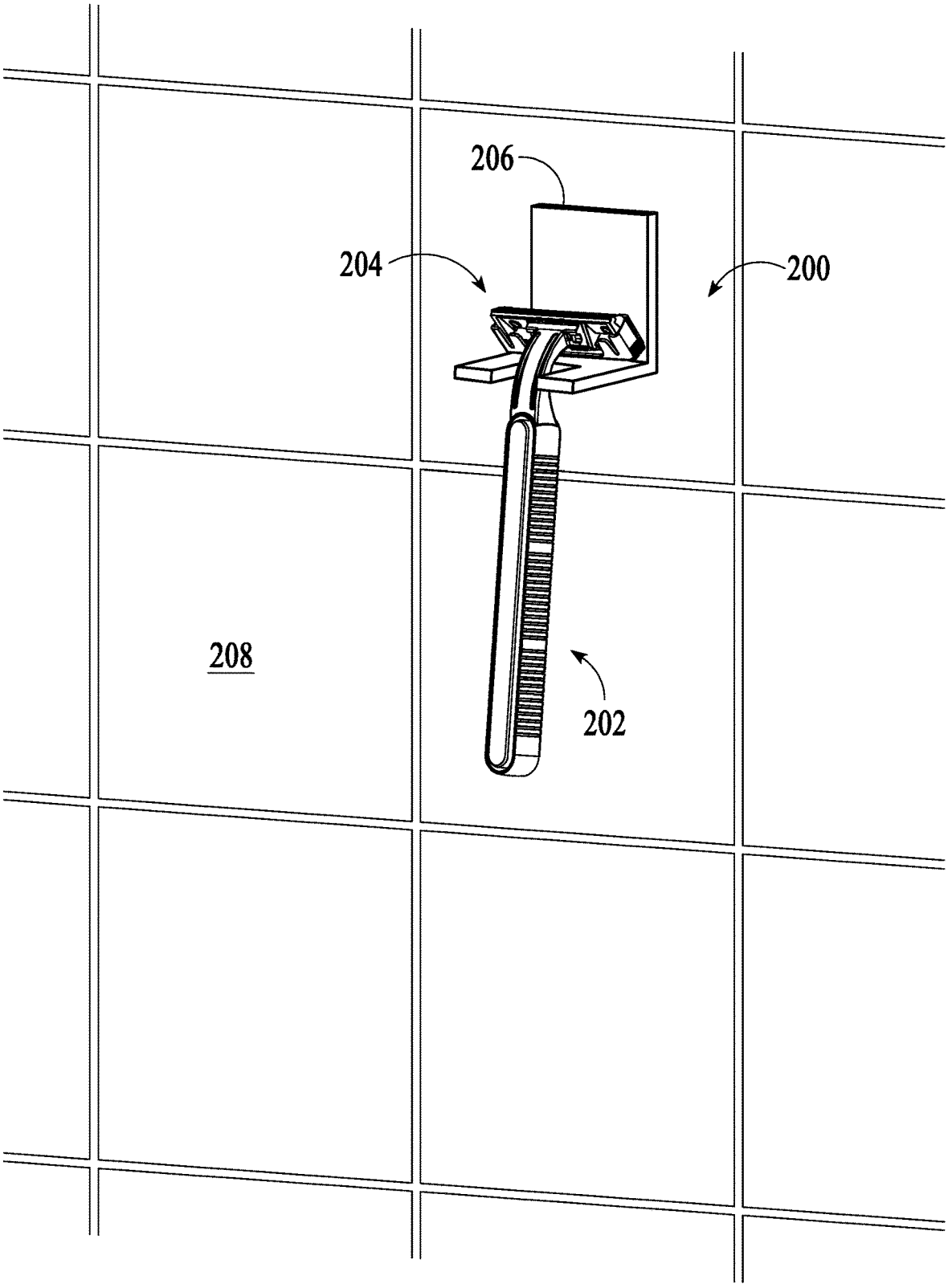

FIG. 5A
(PRIOR ART)

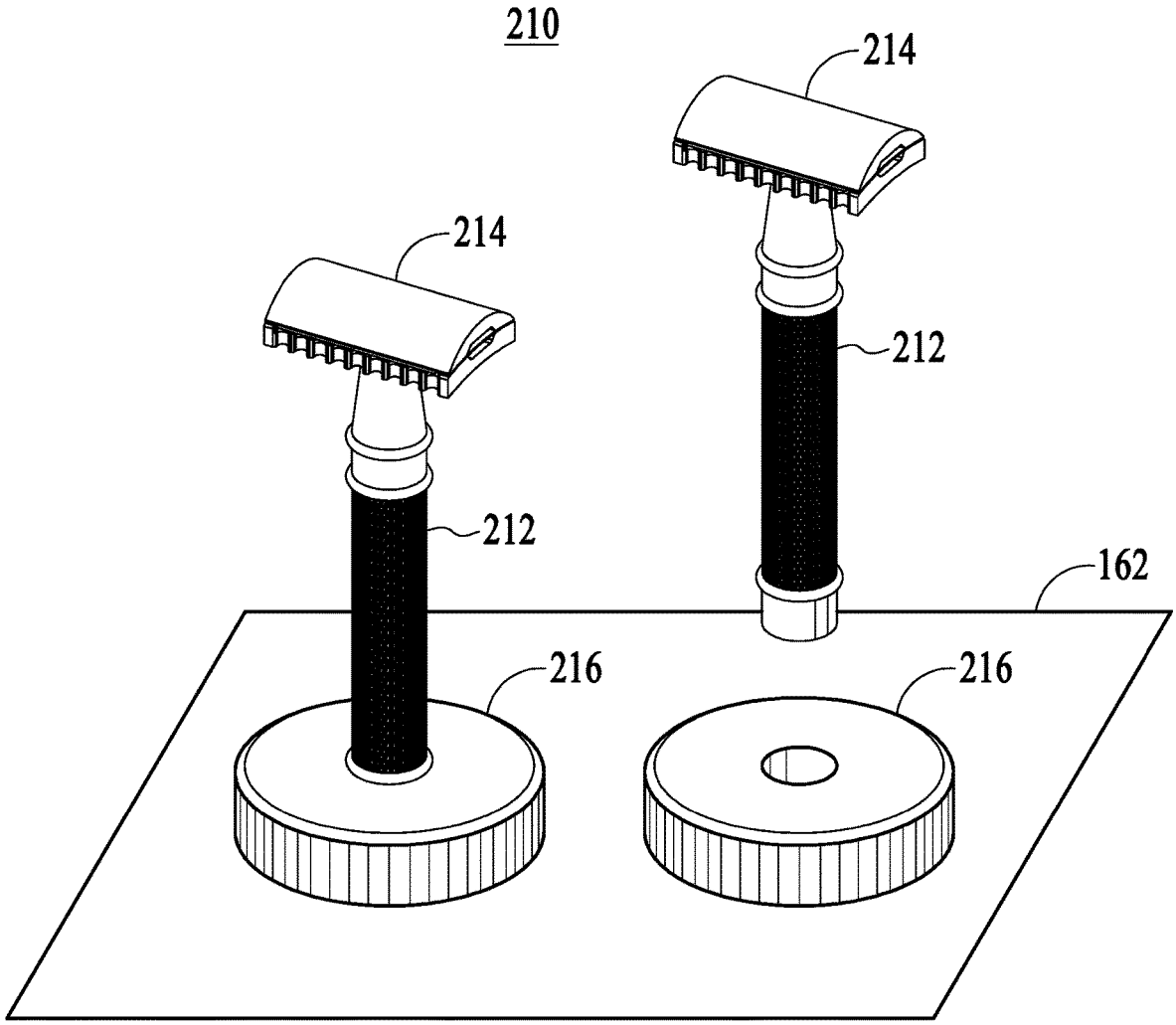

FIG. 5B
(PRIOR ART)

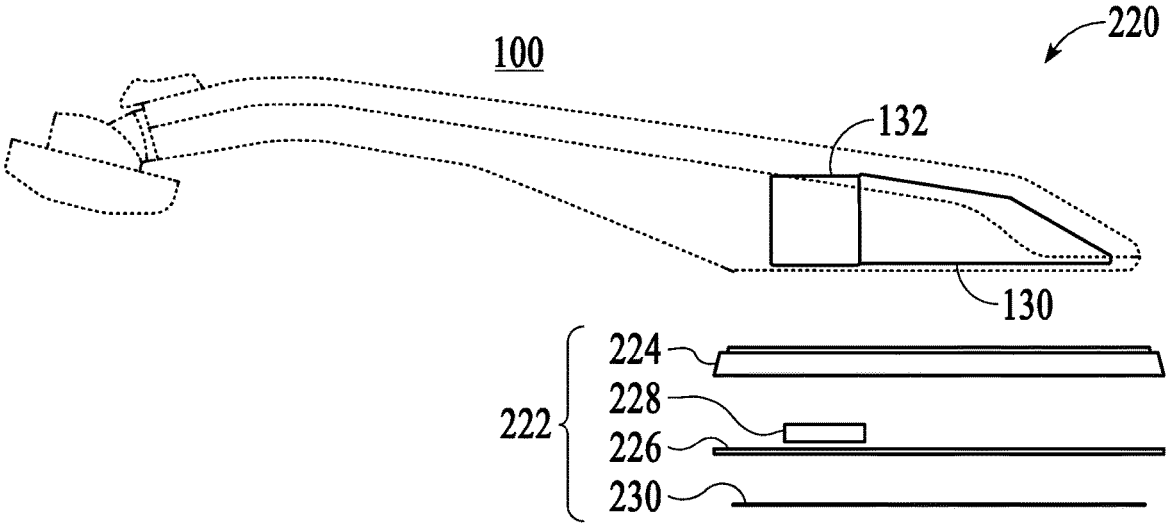

FIG. 5C

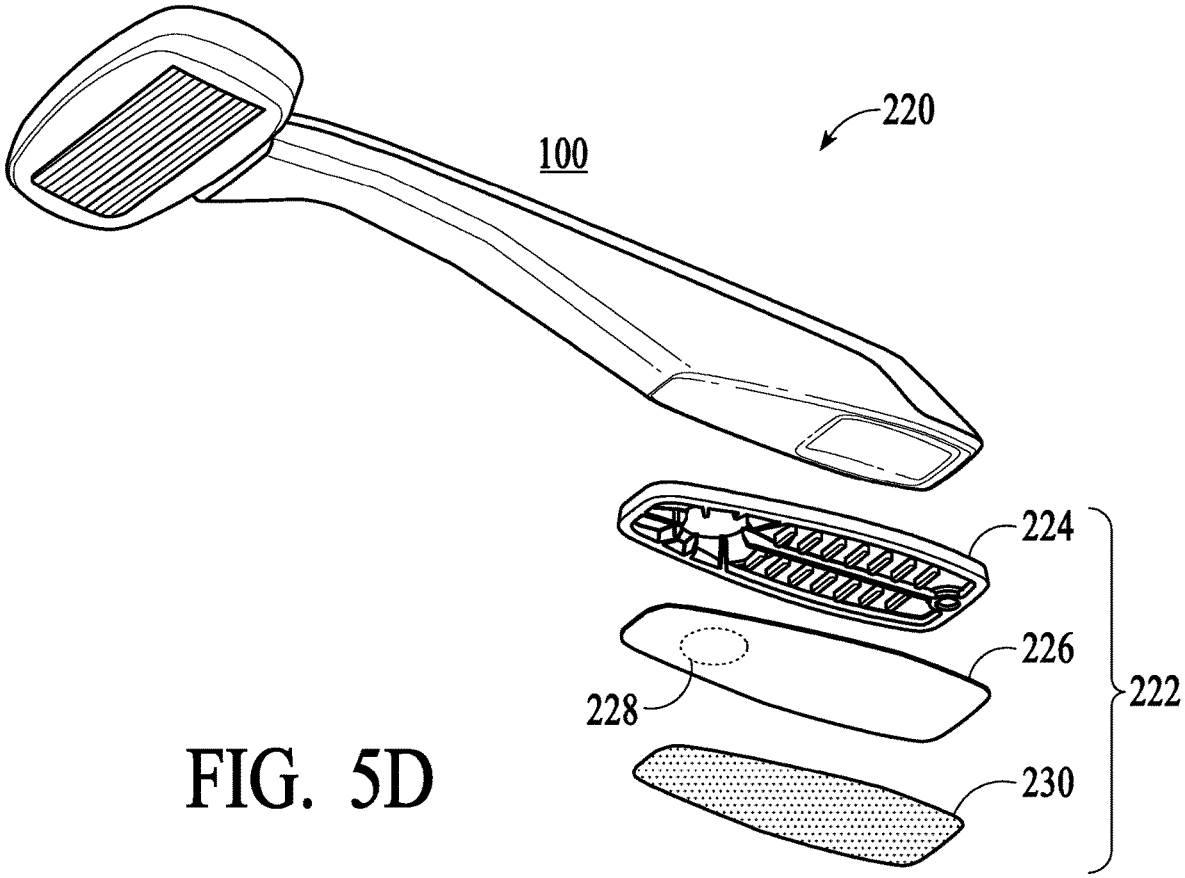

FIG. 5D

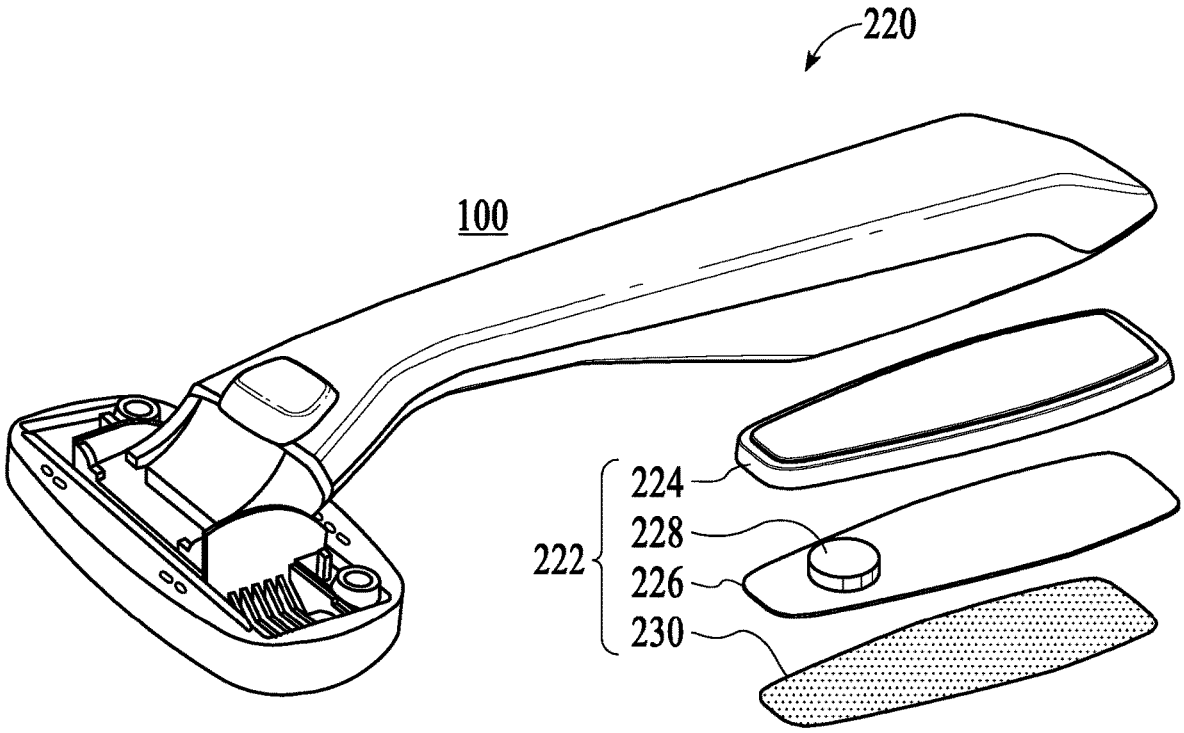

FIG. 5E

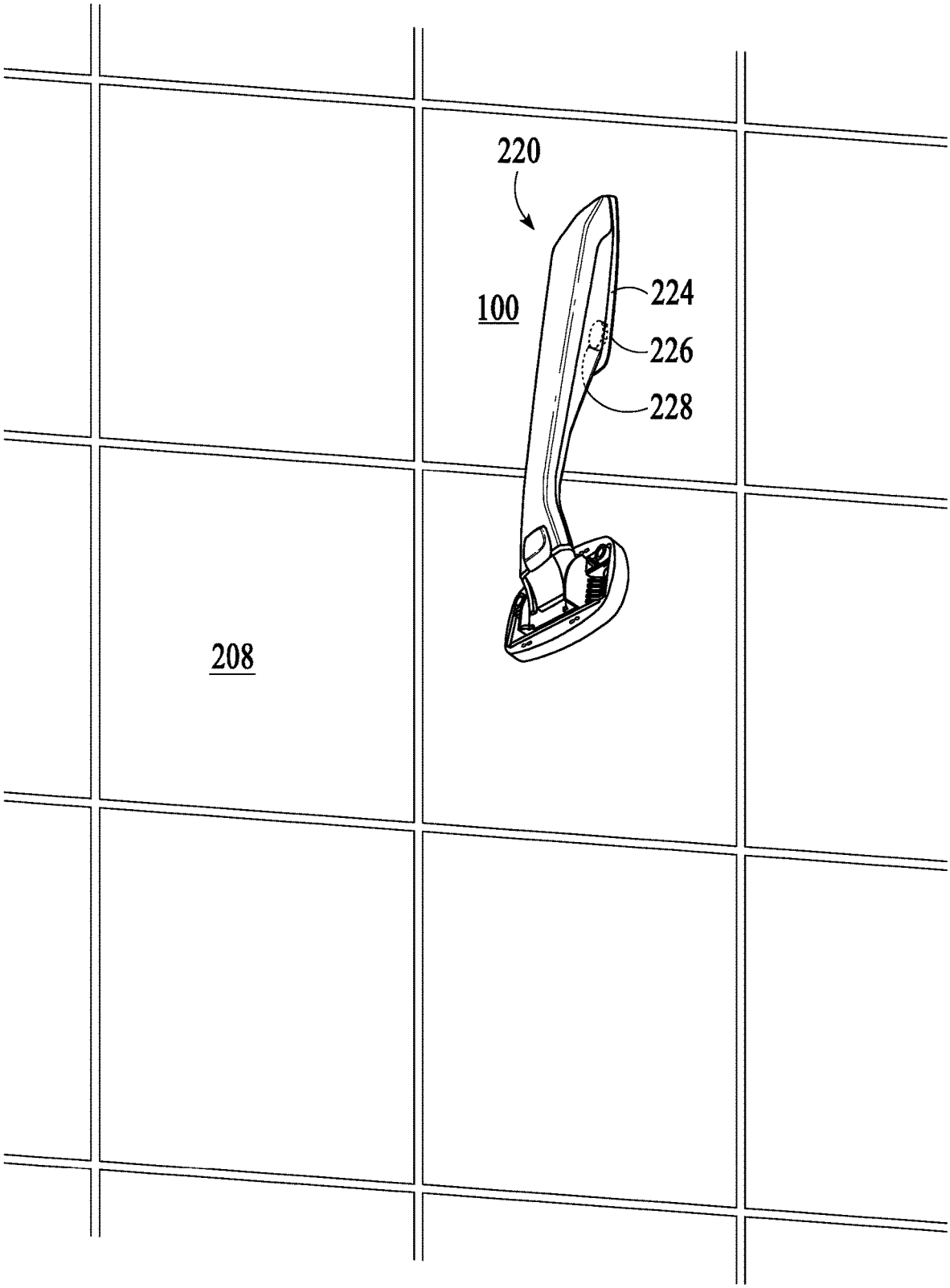

FIG. 5F

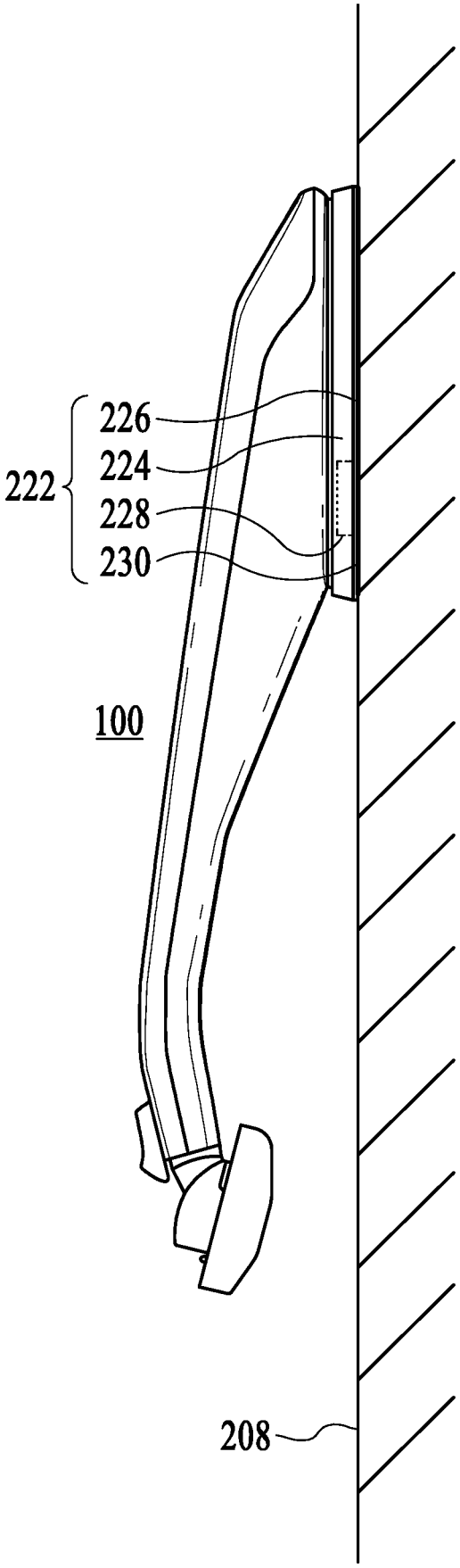

FIG. 5G

RAZOR HANDLE

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of U.S. Provisional Patent Application No. 63/081,114, filed Sep. 21, 2020, which is incorporated by reference herein in its entirety. In addition, this application incorporates by reference U.S. patent application Ser. No. 29/776,300 herein in its entirety.

BACKGROUND

[0002] Handheld razors include a cartridge of blades coupled to a razor handle. In many instances, one or more strips employ lubricant(s) may to help achieve a closer shave and/or provide a moisturizer to the shaver's or user's skin. When the user is finished with his or her shave, the razor is often placed on a surface in a position where the lubricating strips contact the surface which can result with a messy surface and/or an unhygienic exposure to surface germs.

SUMMARY

[0003] Embodiments of the inventive concepts disclosed herein are directed to a razor comprising a razor handle and a cartridge. The use of this razor may improve the cleanliness of the shaving area and/or hygiene of a user by preventing the cartridge from contacting a surface upon which the razor rests when not employed by the user.

[0004] In one aspect, embodiments of the inventive concepts disclosed herein are directed to a razor handle comprising a weight and/or a magnet therein and disposed between upper and lower surfaces which extend between two opposing ends. In some embodiments, razor handle may be defined with a base and an arm. With the weight disposed within the base and the razor handle being placed in a resting position, the weight within a base sections acts as a counterbalance to a moment created by the arm to prevent the arm and cartridge of blades coupled to the arm from contacting the surface when the razor is not employed by a user.

[0005] In another aspect, embodiments of the inventive concepts disclosed herein are directed to a razor handle defined with a base and an arm, wherein a weight and/or a magnet are disposed within the base. The base has a center of mass located a first distance from a pivot surface, and the arm has a center of mass located a second distance from the pivot surface. In some embodiments, the first distance is less than the second distance to prevent the arm and cartridge of blades coupled to the arm from contacting the surface when the razor is not employed by a user.

[0006] In a further aspect, a first moment of the base about a horizontal axis is greater than a second moment of the arm about the horizontal axis when a lower surface of the base rests on a horizontal surface when the razor handle is not employed by a user.

[0007] In a further aspect, a horizontal length of the base is less than a horizontal length of the arm.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] For a fuller understanding of the inventive embodiments, reference is made to the following description taken in connection with the accompanying drawings in which:

[0009] FIGS. **1**A through **1**D illustrate side, top, bottom, and perspective views, respectively, of a razor, in accordance with some embodiments;

[0010] FIGS. **2**A through **2**D illustrate side, top, bottom, and side views of a razor handle, in accordance with some embodiments;

[0011] FIGS. **3**A through **3**C illustrate side, top, and bottom views of the razor handle, in accordance with some embodiments;

[0012] FIG. **3**D illustrates a side view of the razor, in accordance with some embodiments;

[0013] FIGS. **4**A through **4**C illustrate side views of the razor handle, in accordance with some embodiments;

[0014] FIGS. **4**D and **4**E illustrate side views of the razor, in accordance with some embodiments;

[0015] FIGS. **5**A and **5**B illustrate exemplars of prior art razor holder systems, in accordance with some embodiments;

[0016] FIGS. **5**C through **5**E illustrate side, lower perspective, and upper perspective views of a razor holder system, in accordance with some embodiments; and

[0017] FIGS. **5**F and **5**G illustrate perspective and side views of the razor being magnetically held from a vertical surface, in accordance with some embodiments.

DETAILED DESCRIPTION

[0018] In the following description, several specific details are presented to provide a thorough understanding of embodiments of the inventive concepts disclosed herein. One skilled in the relevant art will recognize, however, that the inventive concepts disclosed herein can be practiced without one or more of the specific details or in combination with other components. In other instances, well-known implementations or operations are not shown or described in detail to avoid obscuring aspects of various embodiments of the inventive concepts disclosed herein.

[0019] FIGS. **1**A through **1**D, side, top, bottom, and perspective views are shown, respectively, to illustrate an embodiment of razor **100** suitable for implementation of the inventive concepts described herein. Razor **100** includes razor handle **110**, cartridge **190** within which one or more blades are disposed, and cartridge receiving module **192** for coupling cartridge **190** to razor handle **110**.

[0020] The external surface of razor handle **110** includes upper external surface **112** and lower external surface **114** extending between first end **116** and second end **118** to which cartridge **190** is coupled. Upper external surface **112** extends upwardly away from horizontal reference **120** between first end **116** and neck **122** and downwardly towards horizontal reference **120** between neck **122** and second end **118**.

[0021] Lower external surface **114** extends substantially parallel to and/or along horizontal reference **120** between first end **116** and pivot surface **124**, upwardly away from horizontal reference **120** between pivot surface **124** and neck **122**, and downwardly towards horizontal reference **120** between neck **122** and second end **118**.

[0022] In some embodiments, second end **118** may include opening into which cartridge receiving module **192** may be permanently inserted to facilitate the coupling of cartridge **190** to razor handle **110**. In addition, cartridge receiving module **192** may include button **194** that, when pushed towards cartridge **190**, ejects or decouples cartridge **190** from razor handle **110**.

[0023] Referring now to FIGS. **2**A through **2**D, side, top, bottom, and side views of razor handle **110** are illustrated, respectively. Razor handle **110** may be formed from upper enclosure **126** and lower enclosure **128**, and weight **130** and/or magnet **132** disposed substantially vertically between upper and lower enclosures **126** and **128**, respectively, where the internal structures of upper and lower enclosures **126** and **128**, respectively, have been adapted to secure a counterbalance comprising a weight **130** and/or magnet **132** in between these enclosures. Similarly, weight **130** and/or magnet **132** are disposed substantially horizontally between first end **116** and pivot surface **124**. As embodied herein, the counterbalance counters the weight (or mass) of razor handle **110** between it and second end **118** so that neither second end **118** nor cartridge **190** coupled to second of razor handle **110** contacts neither surface **162** (shown below) when razor handle **110** rests in a horizontal resting position when not employed by a user nor vertical surface **208** (shown below) when razor handle **110** magnetically rests in a vertical resting position when not employed by a user.

[0024] Using an alternative frame of reference, weight **130** and/or magnet **132** are disposed substantially vertically between upper and lower external surfaces **112** and **114**, respectively, wherein the internal structure in between upper and lower external surfaces **112** and **114** has been adapted to secure weight **130** and/or magnet **132** in between these surfaces.

[0025] In some embodiments, weight **130** and magnet **132** may be separate components. In some embodiments, weight **130** and magnet **132** may be integrated into and/or manufactured as one component. As discussed in detail below, weight **130** and/or magnet **132** may be employed to hold down base **134** and/or as a counterbalance to arm **136** so that a moment of base **134** (which includes weight **130** and/or magnet **132**) exceeds an opposing moment of arm **136**. If cartridge **190** is coupled to razor handle **110**, weight **130** and/or magnet **132** may be employed to hold down base **134** and/or as a counterbalance to arm **136** and cartridge **190** so the moment base **134** exceeds opposing moments of arm **136** and cartridge **190**.

[0026] Upper and lower enclosures **126** and **128**, respectively, extend between first end **116** and second end **118**. The external surface of upper enclosure **126** may include contiguous sections including, but not limited to, first upper section **126***a*, second upper section **126***b*, and third upper section **126***c*; likewise, the external surface of lower enclosure **128** may include continuous sections including, but not limited to, first lower section **128***a*, second lower section **128***b*, and third lower section **128***c*.

[0027] First upper section **126***a* extends upwardly away from first end **116** at angle measured from horizontal reference **120**. Second upper section **126***b* extends upwardly away from first upper section **126***a* at a lesser angle measured from horizontal reference **120** until reaching neck **122**. Third upper section **126***c* extends downwardly away from second upper section **126***b* and towards horizontal reference **120** until reaching second end **118**.

[0028] First lower section **128***a* extends away from first end **116** and substantially parallel to horizontal reference **120** until reaching pivot surface **124**. Second lower section **128***b* extends upwardly from pivot surface **124** and generally towards second upper section **126***b*. Third lower section **128***c* extends downwardly away from second lower section **128***b* and towards horizontal reference **120**.

[0029] Referring now to FIGS. **3**A through **3**C, side, top, and bottom views of **110** razor handle are illustrated, respectively. As shown, razor handle **110** may be defined by or divided into base **134** and arm **136**. Base **134** includes weight **130** and/or magnet **132** (neither shown) and may be the portion of razor handle **110** in between first end **116** and vertical reference **138** extending through pivot surface **124** and substantially perpendicularly from horizontal reference **120**. Arm **136** may be the portion of razor handle **110** in between vertical reference **138** and second end **118** (i.e., portion of razor handle **110** that excludes base **134**).

[0030] Length **140** of base **134** may be the horizontal distance between pivot axis **142** (about which pivot surface **124** pivots) and first end **116**, and moment arm **144** of base **134** may be the horizontal distance between pivot axis **142** and center of mass **146** of base **134**. Likewise, length **148** of arm **136** may be the horizontal distance between pivot axis **142** and second end **118**, and moment arm **150** of arm **136** may be the horizontal distance between pivot axis **142** and center of mass **152** of arm **136**. As shown, length **140** is less than length **148** and moment arm **144** is less than moment arm **150**.

[0031] Height **154** of second end **118** above horizontal reference **120** may be the vertical distance between horizontal reference **120** and the bottom of second end **118** as measured along a vertical axis (not shown) extending perpendicularly away from horizontal reference **120** and through the bottom of the second end **118**.

[0032] Referring to FIG. **3**D, a side view of razor **100** is illustrated. Cartridge **190** is coupled to razor handle **110**. Moment arm **156** may be the horizontal distance between pivot axis **142** (about which pivot surface **124** pivots) and center of mass **196** of cartridge **190**. As shown, moment arm **150** as shown in FIG. **3**A is less than moment arm **156**. Height **160** of cartridge **190** above horizontal reference **120** may be the vertical distance between horizontal reference **120** and point **198** of cartridge **190**, the closest point of cartridge **190** to horizontal reference **120** as measured along a vertical axis (not shown) extending perpendicularly away from horizontal reference **120** and through point **198** and parallel to vertical reference **138**.

[0033] Referring now to FIGS. **4**A through **4**C, side views of razor handle **110** are illustrated. In FIG. **4**A, razor handle **110** has been placed in a horizontal resting position on surface **162** such as, but not limited to, a horizontal bathroom counter next to sink when not in use. The distributed mass or weight of base **134**, as represented by concentrated force **164** being applied to center of mass **146**, creates a clockwise moment **166** about pivot surface **124**; similarly, the distributed mass or weight of arm **136**, as represented by concentrated force **168** being applied to center of mass **152**, creates a counterclockwise moment **170** about pivot surface **124**. As embodied herein, clockwise moment **166** exceeds counterclockwise moment **170** when razor handle **110** rests in its horizontal resting position on surface **162**.

[0034] In FIG. **4**B, a finger has applied a downward force on arm **136** to create counterclockwise moment **172** that, when added to counterclockwise moment **170**, creates a total counterclockwise moment **174** that exceeds clockwise moment **166**. This causes razor handle **110** to pivot counterclockwise **176** about pivot surface **124** until second end **118** contacts surface **162** and first end **116** rises above surface **162** as shown.

[0035] In FIG. **4**C, the finger has released the downward force on arm **136** to release counterclockwise moment **172**. This causes razor handle **110** to pivot clockwise **178** about pivot surface **124** in a clockwise direction until lower external surface **114** (or first lower section **128***a*) of razor handle **110** returns to its horizontal resting position on surface **162** and second end **118** returns to its horizontal resting position at height **154** above surface **162**.

[0036] Referring now to FIGS. **4**D and **4**E, side views of razor **100** are illustrated. In FIG. **4**D, razor handle **110** with cartridge **190** coupled has been placed in the horizontal resting position. In addition to the presence of clockwise moment **166** and counterclockwise moment **170**, the distributed weight of cartridge **190** creates a counterclockwise moment **180** about pivot surface **124**, where the distributed weight of cartridge **190** is represented by concentrated force **172** being applied to center of mass **196**. Even with the addition of counterclockwise moment **180**, the sum of counterclockwise moments **170** and **180** do not exceed clockwise moment **166** when razor handle **110** rests in its horizontal resting position on surface **162**.

[0037] In FIG. **4**E, a finger has applied a downward force on arm **136** to create counterclockwise moment **184** that, when added to counterclockwise moments **170** and **180**, creates a total counterclockwise moment **174** that exceeds clockwise moment **166**. This causes razor handle **110** to pivot counterclockwise **176** about pivot surface **124** until point **198** of cartridge **190** contacts surface **162** and first end **116** rises above surface **162** as shown.

[0038] Referring now to FIGS. **5**A and **5**B, two exemplars of prior art razor holder systems are illustrated. In FIG. **5**A, razor holder system **200** includes razor handle **202** and cartridge **204** being held in place by razor holder **206** securely mounted to vertical surface **208** when razor **200** is not employed by a user. In FIG. **5**B, razor holder system **210** includes razor handle **212** and cartridge **214** being held in place by razor holder **216** resting on horizontal surface **162** when razor **210** is not employed by a user.

[0039] Referring now to FIGS. **5**C through **5**E, side, lower perspective, and upper perspective views of razor holder system **220** are illustrated. Razor holder **222** include upper and lower enclosures **224** and **226**, respectively, and magnet **228** disposed in between them. In some embodiments, upper enclosure **224** may include an aperture through which magnet **228** may be extend upwardly from lower enclosure **226**.

[0040] Referring now to FIGS. **5**F and **5**G, side, lower perspective, and upper perspective views of razor holder system **220** are illustrated. Razor holder **222** include upper and lower enclosures **224** and **226**, respectively, and magnet **228** disposed in between them. In some embodiments, upper enclosure **224** may include an aperture through which magnet **228** may be extend upwardly from lower enclosure **226**. In some embodiments, razor holder **222** could include an adhesive strip **230** applied to a surface of lower enclosure **226** and adapted to affix razor holder **222** to a surface such as, but not limited to, vertical surface **208**. When razor **100** is not employed by a user, magnet **130** disposed or embedded in razor **100** may magnetically engage magnet **228** of razor holder **222** affixed to vertical surface **208**, such that razor **100** may be magnetically held in a resting and/or handing position that is substantially parallel to vertical surface **208**.

[0041] It should be understood that the aspects, features and advantages made apparent from the foregoing are efficiently attained and, since certain changes may be made in the disclosed inventive embodiments without departing from the spirit and scope of the invention, it is intended that all matter contained herein shall be interpreted as illustrative and not in a limiting sense.

What is claimed is:

1. A razor handle comprising a counterbalance therein.

2. The razor handle of claim **1**, wherein the counterbalance is disposed between a first surface and an opposing second surface of the razor handle.

3. The razor handle of claim **1**, further comprising:

a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein;

a base extending between the first end and a reference substantially perpendicular to a surface of the base and located between the first and second ends; and

an arm extending between the second end and the reference, wherein

the counterbalance is disposed within the base.

4. The razor handle of claim **3**, wherein the surface of the base is substantially parallel to a horizontal surface upon which the razor handle rests when not employed by a user.

5. The razor handle of claim **3**, wherein the surface of the base is substantially parallel to a vertical surface from which the razor handle magnetically hangs when not employed by a user.

6. The razor handle of claim **1**, wherein the counterbalance is at least a weight.

7. A razor handle comprising a magnet therein.

8. The razor handle of claim **7**, wherein the magnet is disposed between a first surface and an opposing second surface of the razor handle.

9. The razor handle of claim **7**, further comprising:

a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein;

a base extending between the first end and a reference substantially perpendicular to a surface of the base and located between the first and second ends; and

an arm extending towards the second end and between the second end and the reference, wherein

the magnet is disposed within the base.

10. The razor handle of claim **9**, wherein the surface of the base is a lower surface substantially parallel to a horizontal surface upon which the razor handle rests when not employed by a user.

11. The razor handle of claim **9**, wherein the surface of the base is a vertical surface substantially parallel to a vertical surface from which the razor handle magnetically hangs when not employed by a user.

12. A razor handle, comprising:

a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein;

a base extending between the first end and a first reference substantially perpendicular to a surface of the base and located between the first and second ends, and having a first center of mass located a first distance from the first reference; and

an arm extending between the second end and the first reference, and having a second center of mass located a second distance from the first reference, where

the first and second distances are measured along a second reference substantially perpendicular to the first reference, and

the first distance is less than the second distance.

13. The razor handle of claim 12, wherein the second end includes cartridge receiving module adapted to couple to the cartridge.

14. The razor handle of claim 12, wherein the first reference is a vertical reference and the second reference is a horizontal reference substantially parallel to a horizontal surface upon which the razor handle rests when not employed by a user.

15. The razor handle of claim 12, wherein the surface is a lower surface substantially parallel to a horizontal surface upon which the razor handle rests when not employed by a user.

16. The razor handle of claim 12, wherein the first reference is a horizontal reference and the second reference is a vertical reference substantially parallel to a vertical surface from which the razor handle magnetically hangs when not employed by a user.

17. The razor handle of claim 12, wherein the surface is a vertical surface substantially parallel to a vertical surface from which the razor handle magnetically hangs when not employed by a user.

18. A razor handle, comprising:

a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein;

a base extending between the first end and a vertical reference substantially perpendicular to both a horizontal axis and a lower surface of the base and located between the first and second ends; and

an arm extending between the second end and the vertical reference, where

a first moment of the base about the horizontal axis is greater than a second moment of the arm about the horizontal axis when the lower surface rests on a horizontal surface when the razor handle is not employed by a user.

19. The razor handle of claim 18, wherein the second end includes cartridge receiving module adapted to couple to the cartridge.

20. The razor handle of claim 18, wherein

the cartridge is coupled to the second end, such that

the first moment is greater than the sum of the second moment and a third moment of the cartridge about the horizontal axis when the lower surface rests on the horizontal surface.

21. A razor handle, comprising:

a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein;

a base extending a first distance between the first end and a first reference substantially perpendicular to a surface of the base and located between the first and second ends; and

an arm extending a second distance between the second end and the first reference, where

the first and second distances are measured along a second reference substantially perpendicular to the first reference, and

the first distance is less than the second distance.

22. The razor handle of claim 21, wherein the second end includes cartridge receiving module adapted to couple to the cartridge.

23. The razor handle of claim 21, wherein the first reference is a vertical reference and the second reference is a horizontal reference substantially parallel to a horizontal surface upon which the razor handle rests when not employed by a user.

24. The razor handle of claim 21, wherein the surface is a lower surface substantially parallel to a horizontal surface upon which the razor handle rests when not employed by a user.

25. The razor handle of claim 21, wherein the first reference is a horizontal reference and the second reference is a vertical reference substantially parallel to a vertical surface from which the razor handle magnetically hangs when not employed by a user.

26. The razor handle of claim 21, wherein the surface is a vertical surface substantially parallel to a vertical surface from which the razor handle magnetically hangs when not employed by a user.

27. A razor handle, comprising:

an upper enclosure and an opposing lower enclosure extending between a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein, where

a first upper section of the upper enclosure extends upwardly and away from the first end and a horizontal reference until reaching a neck,

a second upper surface extends downwardly away from the neck and towards the horizontal reference until reaching the second end,

a first lower section of the lower enclosure extends horizontally and away from the first upper section and the first end for a first distance until reaching a pivot surface,

a second lower section of the neck extends upwardly and away from the pivot surface and the horizontal reference for a second distance until reaching a neck, and

a third lower surface extends downwardly and away from the neck and towards the horizontal reference until reaching the second end.

28. The razor handle of claim 27, wherein the second end includes cartridge receiving module adapted to couple to the cartridge.

29. The razor handle of claim 27, wherein the first upper section includes a flat surface having a third distance greater than the first distance and greater than the second distance but less than the sum of the first distance and the second distance.

30. The razor handle of claim 27, wherein the first and second ends rest above a horizontal surface upon which the flat surface of the razor handle rests when the razor handle is not employed by a user.

31. A razor handle, comprising:

an upper enclosure and an opposing lower enclosure extending between a first end and an opposing second end adapted to receive a cartridge with at least one blade disposed therein, where

a first upper section of the upper enclosure extends upwardly and away from the first end and a horizontal reference until reaching a neck,

a second upper surface extends downwardly away from the neck and towards the horizontal reference until reaching the second end,

a first lower section of the lower enclosure extends horizontally and away from the first upper section and the first end for a first distance until reaching a pivot surface,

a second lower section of the neck extends upwardly and away from the pivot surface and the horizontal reference for a second distance until reaching a neck, and

a third lower surface extends downwardly and away from the neck and towards the horizontal reference until reaching the second end.

32. The razor handle of claim **27**, wherein the second end includes cartridge receiving module adapted to couple to the cartridge.

33. The razor handle of claim **27**, wherein the first upper section includes a flat surface having a third distance greater than the first distance and greater than the second distance but less than the sum of the first distance and the second distance.

34. The razor handle of claim **27**, wherein the first and second ends rest above a horizontal surface upon which the flat surface of the razor handle rests when the razor handle is not employed by a user.

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