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(54) **OVAL GEMSTONE ARRANGEMENTS WITH SETTINGS**

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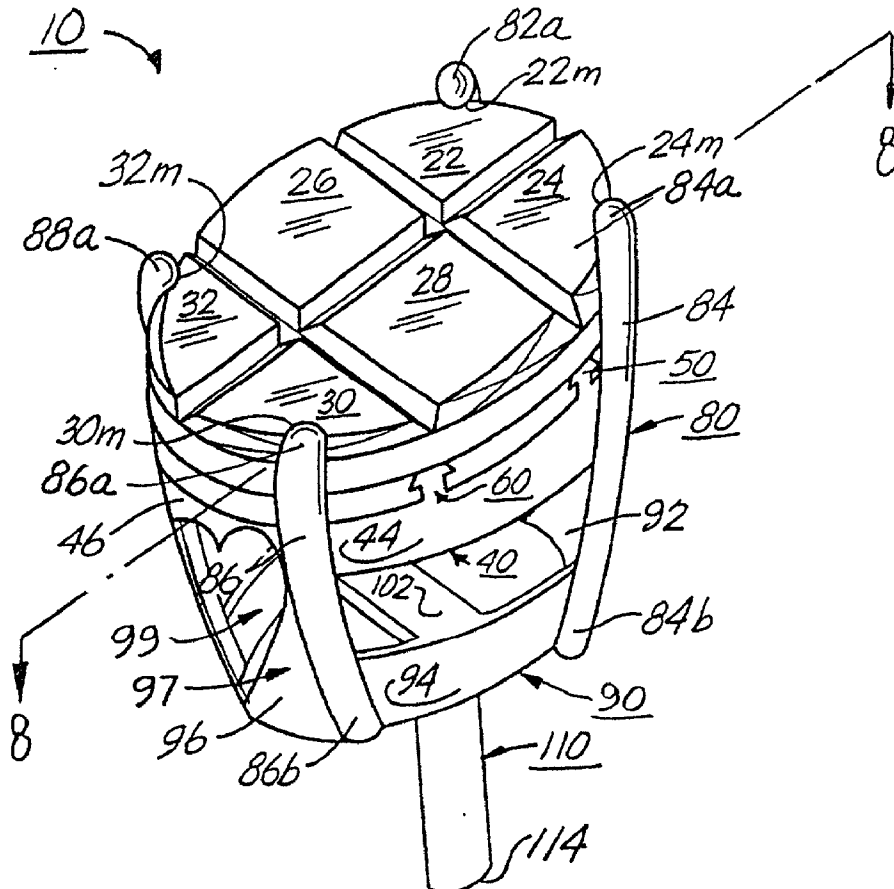
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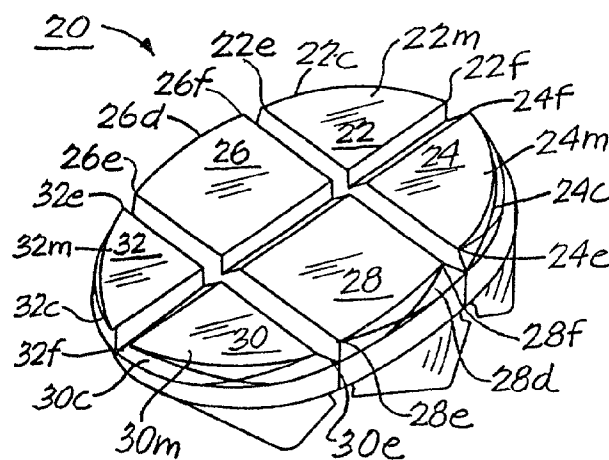
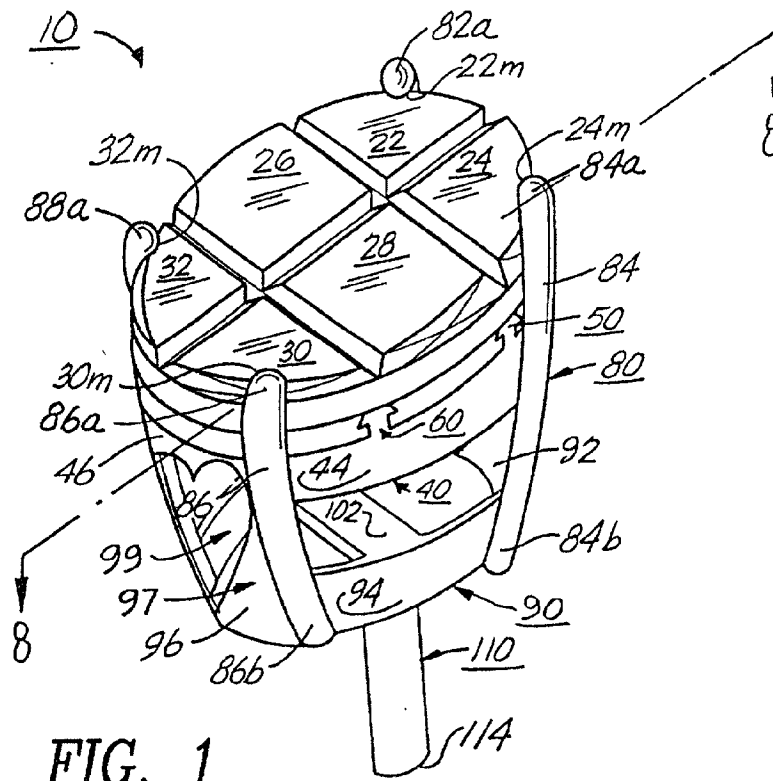
(52) **U.S. Cl.** **63/26**

(57) **ABSTRACT**

A multi-stone oval setting having four substantially triangular-shaped gemstones or diamonds therein and two sub-

stantially rectangular-shaped gemstones or diamonds therein and held together in the setting to produce the appearance of an overall oval-shaped gemstone. The multi-stone oval setting includes a prong assembly having four prong members and one or more curved side rail members connected to the four prong members to form an oval-shaped setting. The oval-shaped setting also includes a first crossbar member with first and second insert retaining edges formed therein and extending in a first direction; and having a second crossbar member with third and fourth insert retaining edges formed therein and being parallel to the first crossbar member and also extending in the first direction; and having a third crossbar member being perpendicular to the first and second crossbar members and extending in a second direction. The crossbar members form six seating areas for receiving therein each of the six gemstones or diamonds. Additionally, each of the four prong members are used for engaging the gemstones or diamonds in order to keep the four gemstones or diamonds seated within each of the four seating areas of the outer rows of the oval-shaped setting.





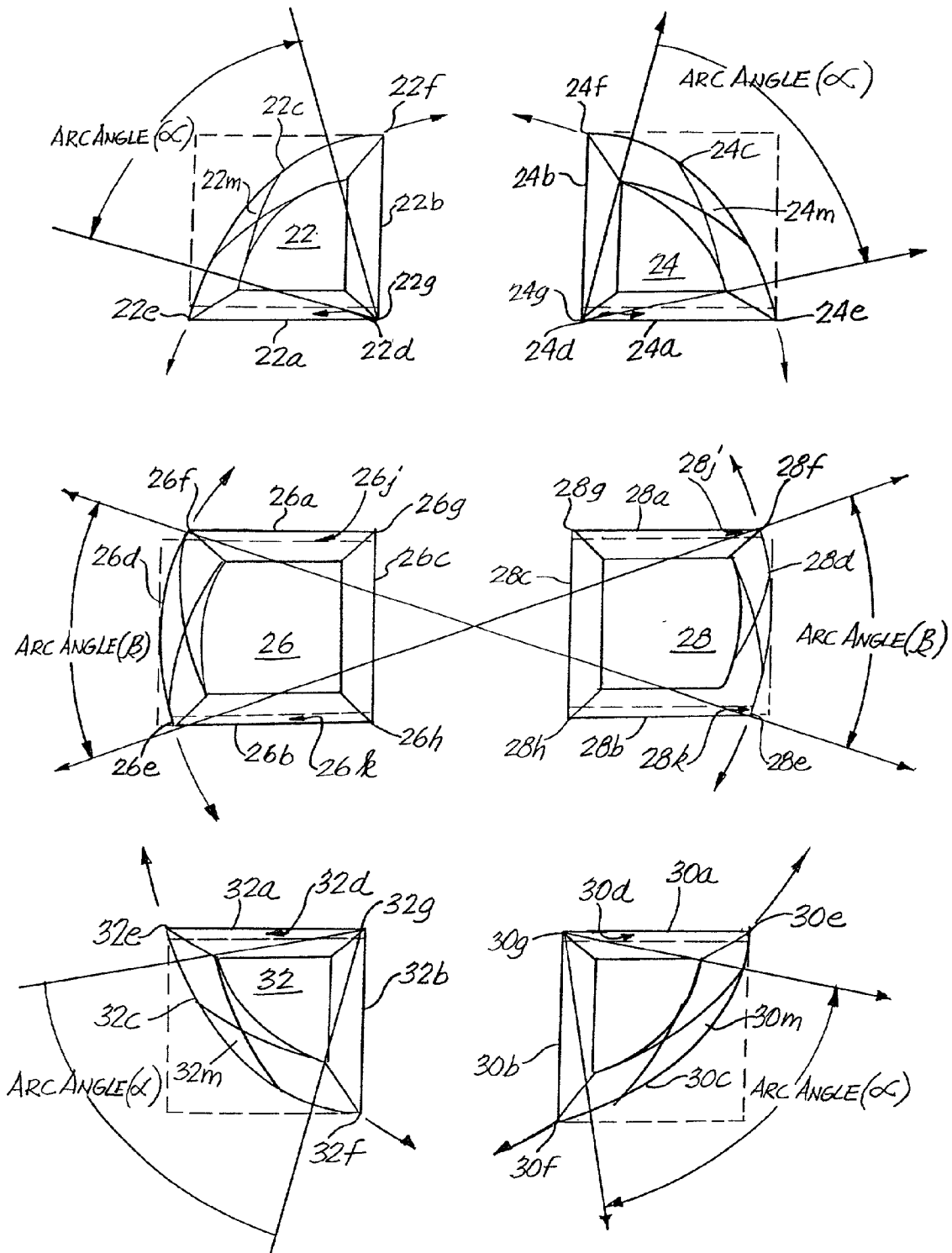
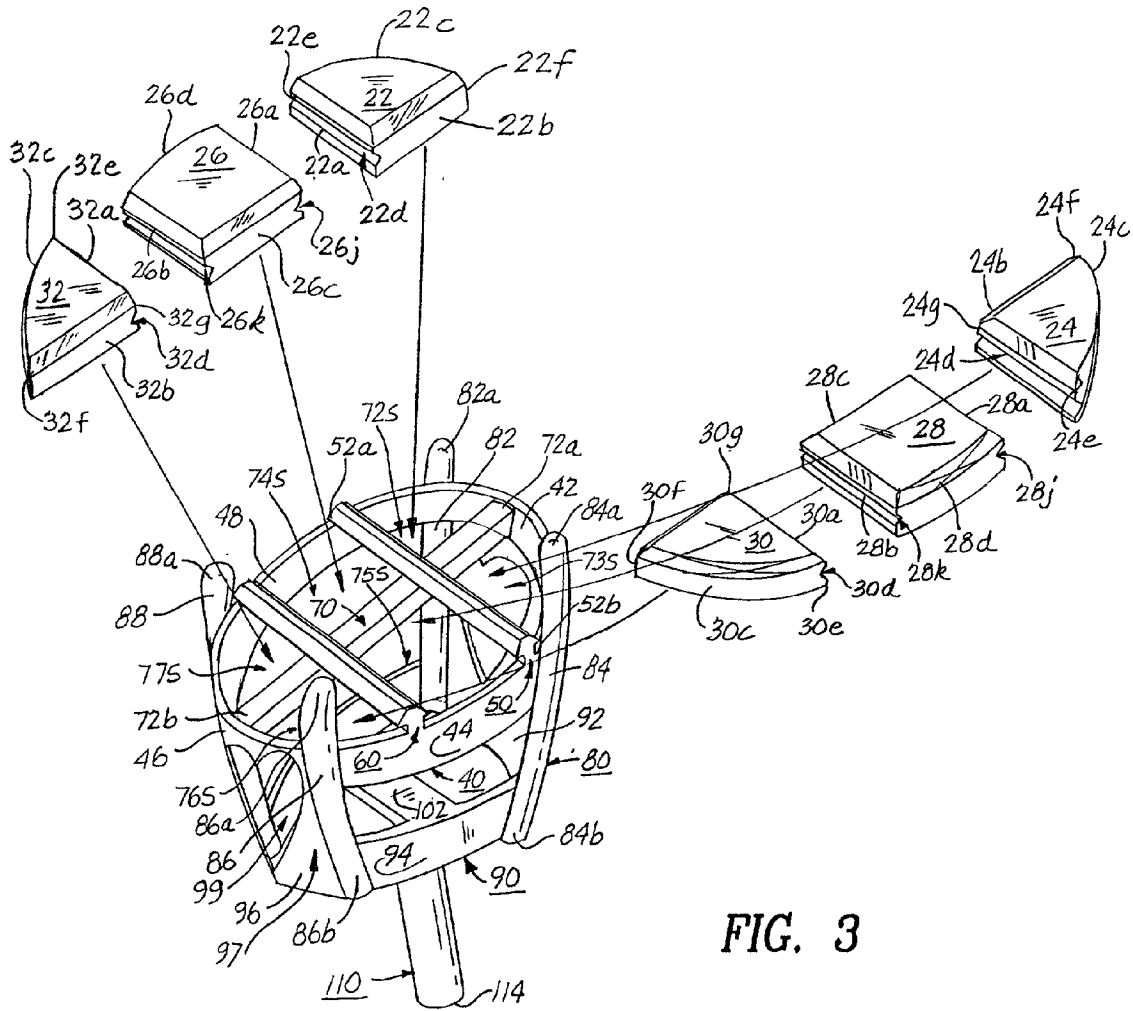


FIG. 2A



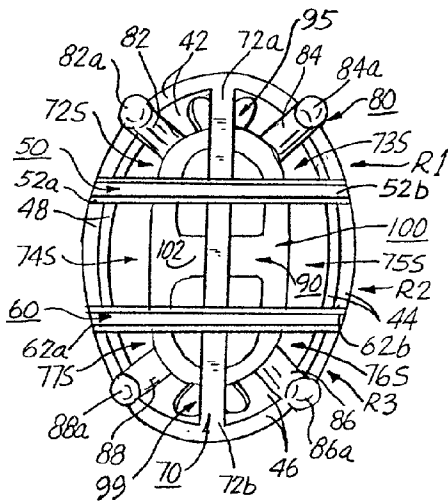


FIG. 4A

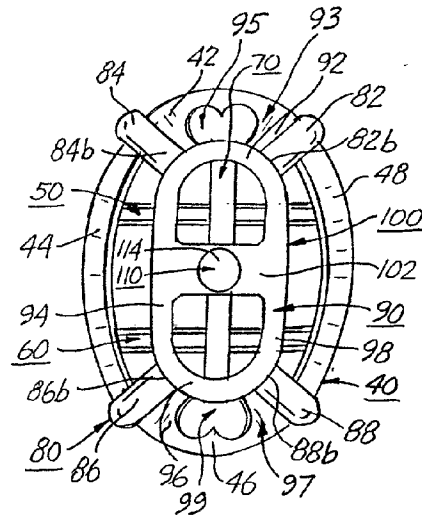


FIG. 4B

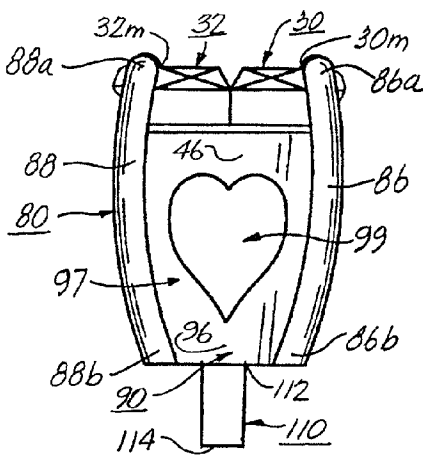


FIG. 5

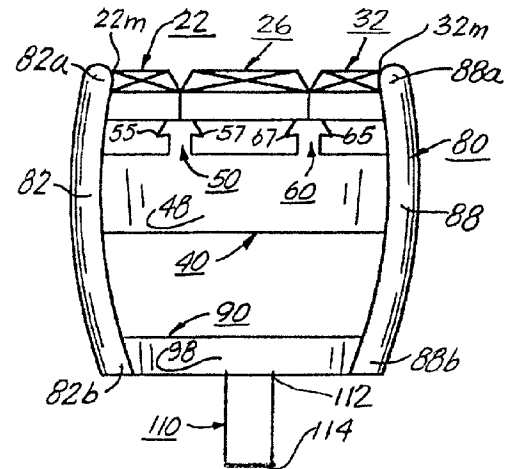


FIG. 6

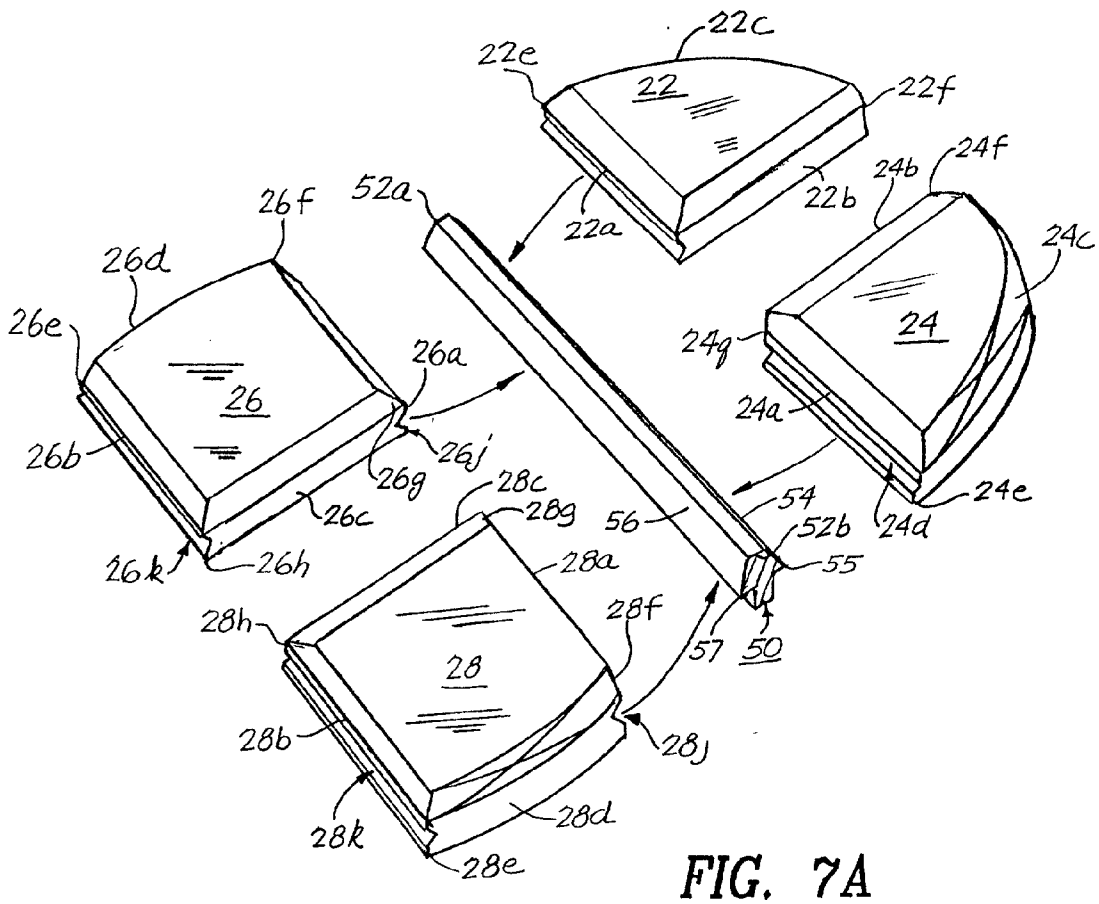


FIG. 7A

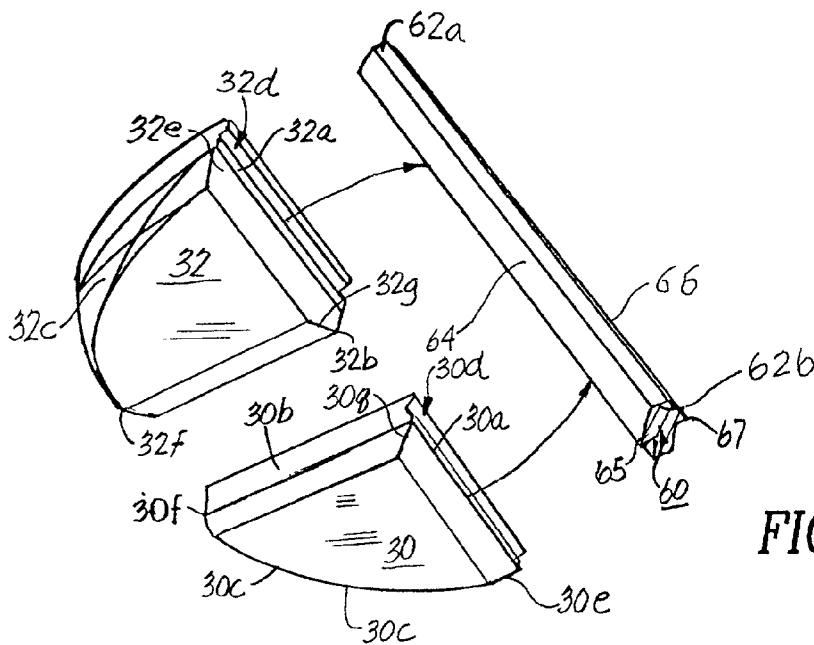


FIG. 7B

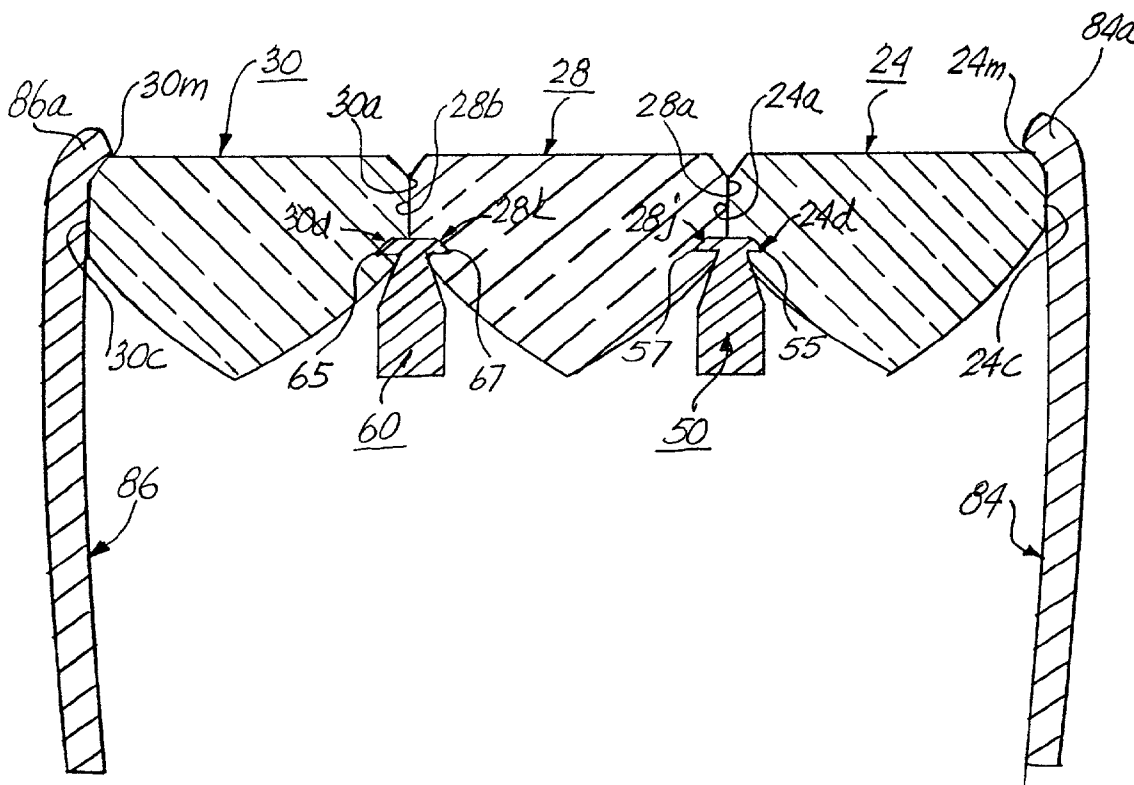
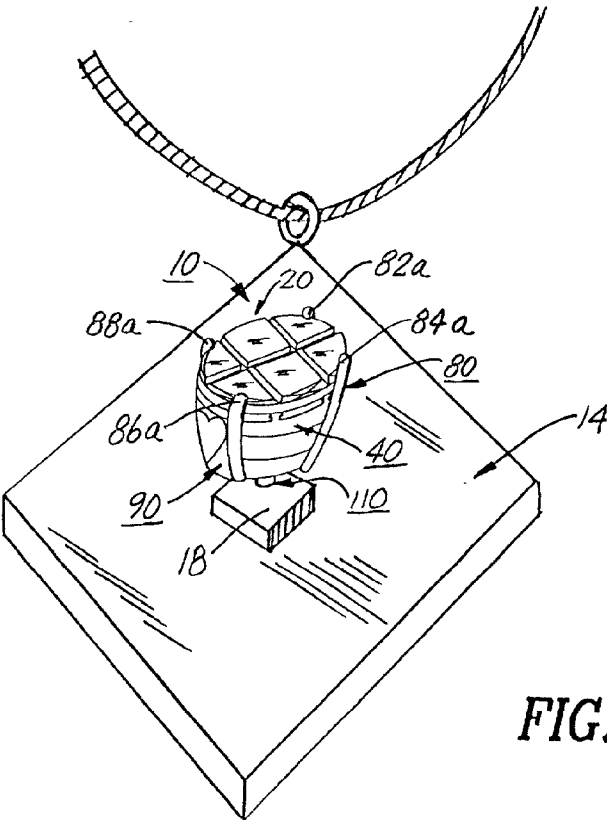
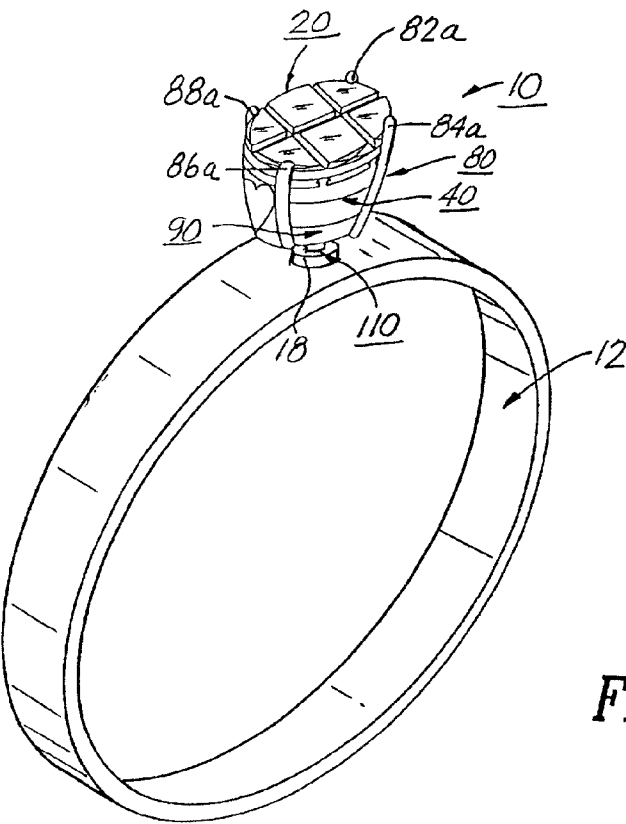
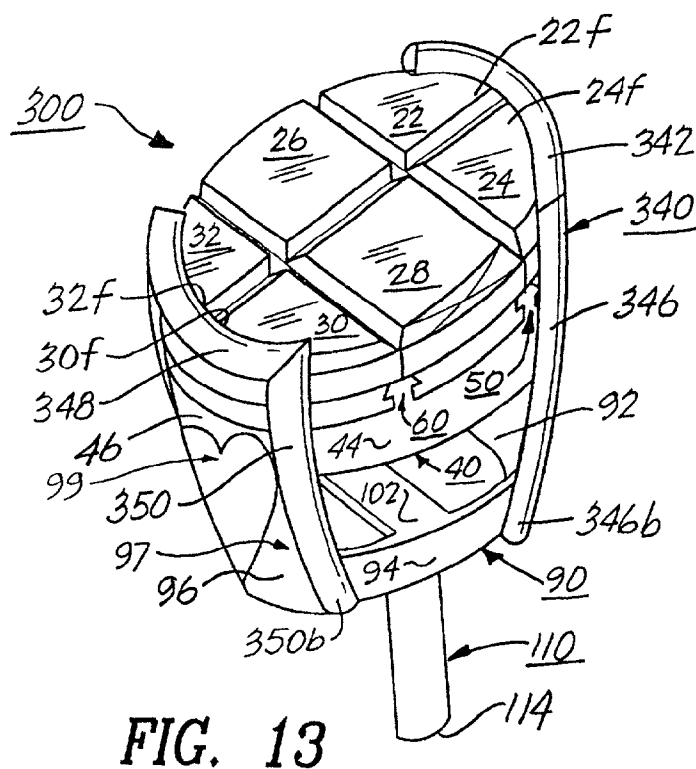
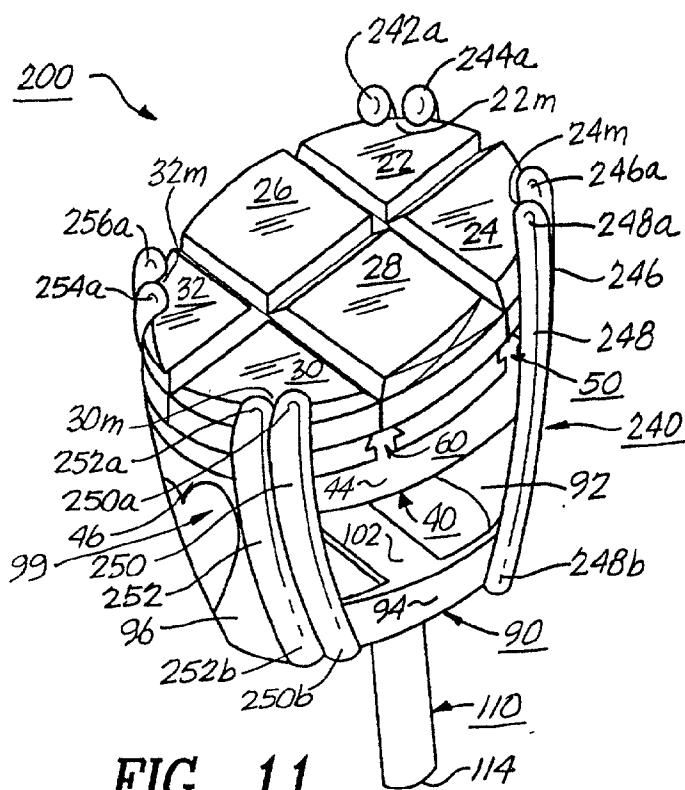


FIG. 8





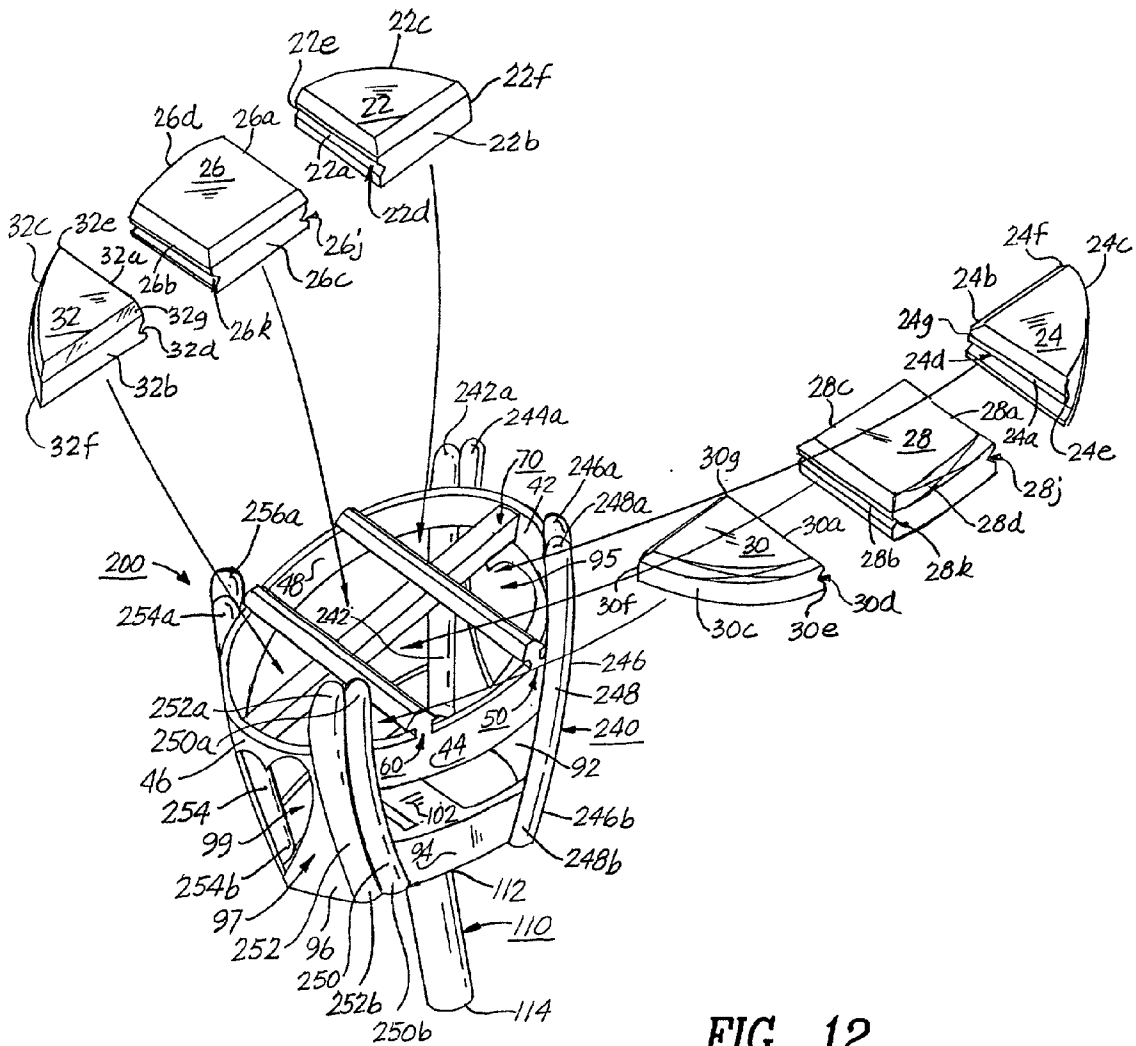


FIG. 12

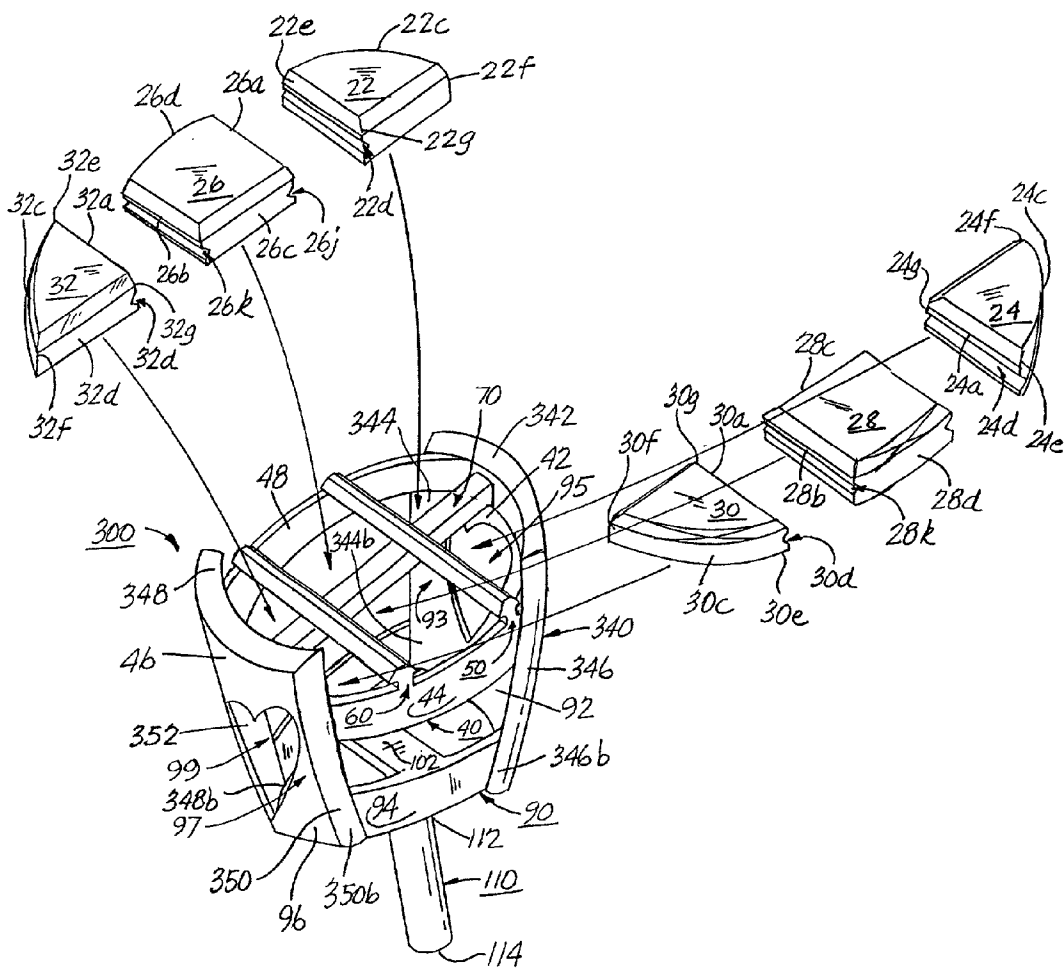


FIG. 14

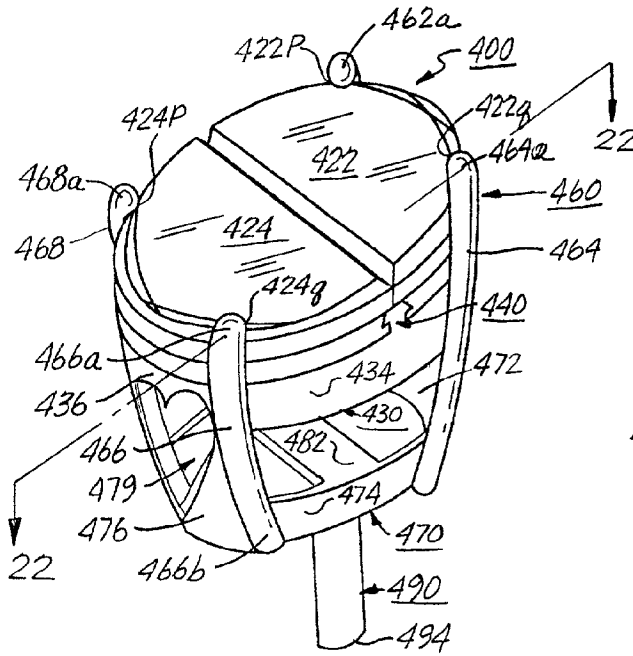


FIG. 15

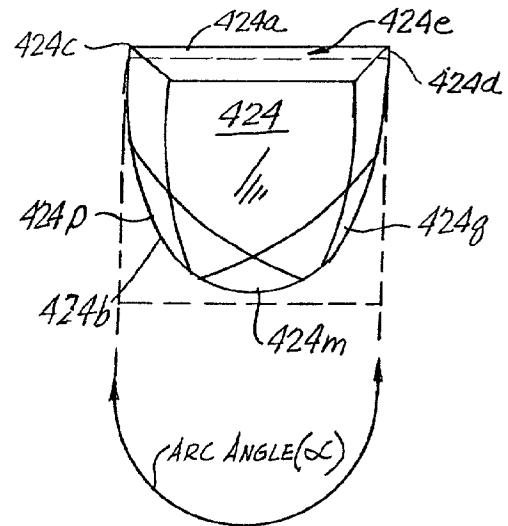
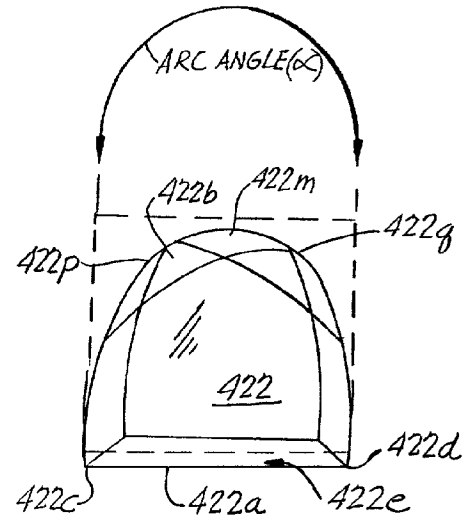


FIG. 16A

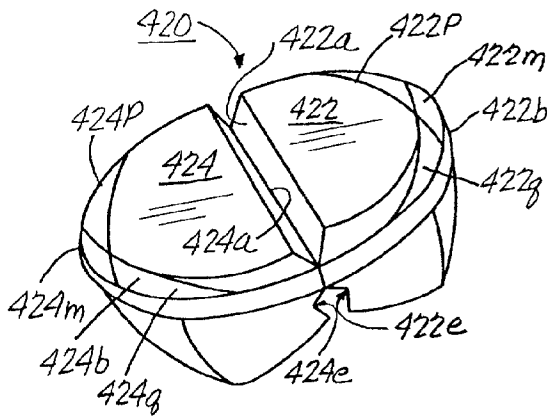


FIG. 16

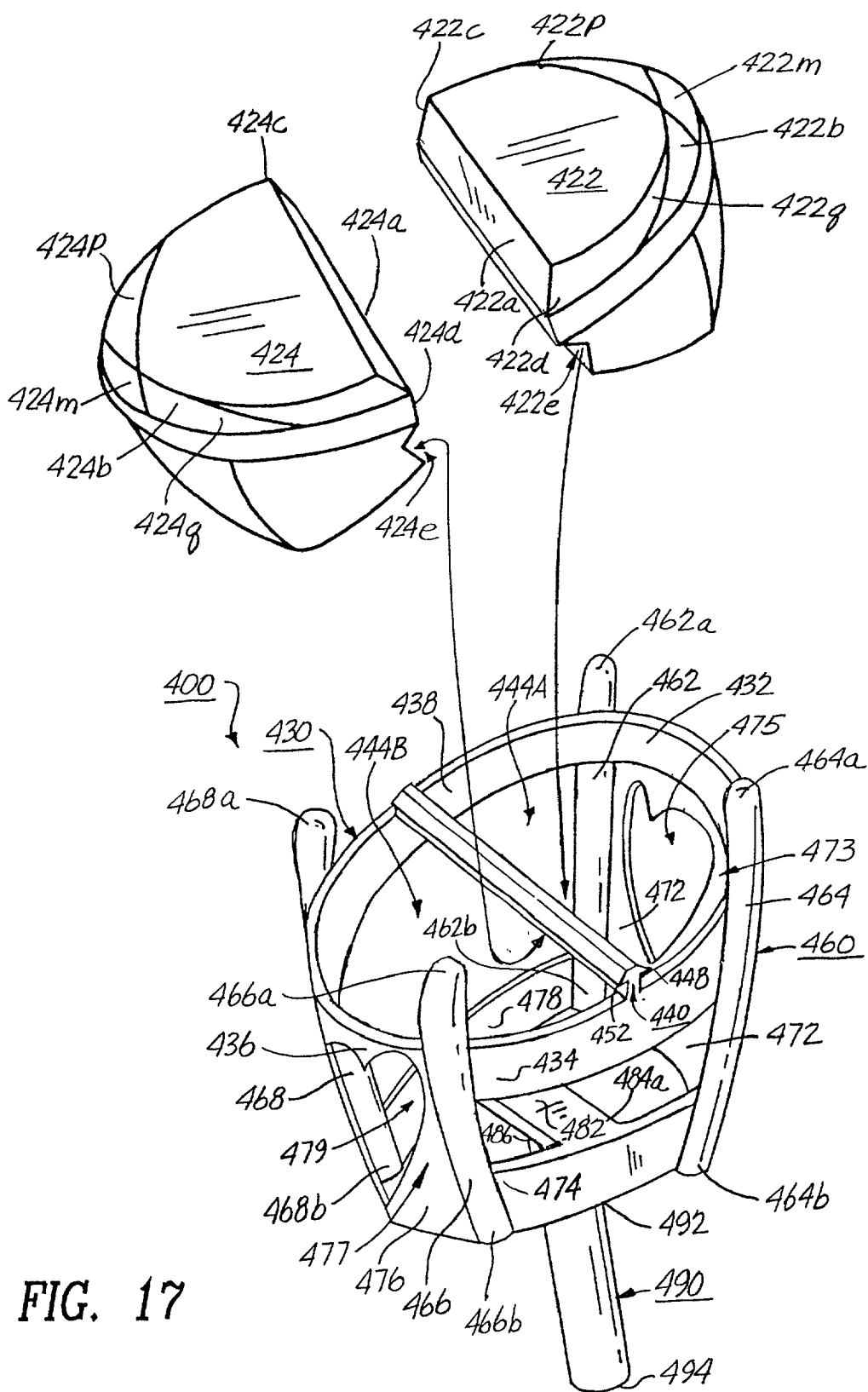


FIG. 17

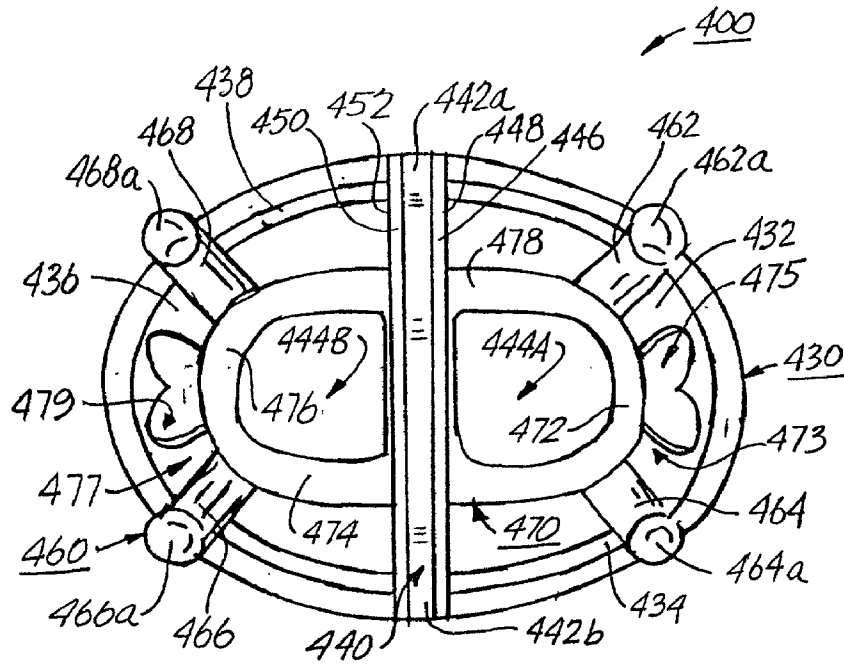


FIG. 18A

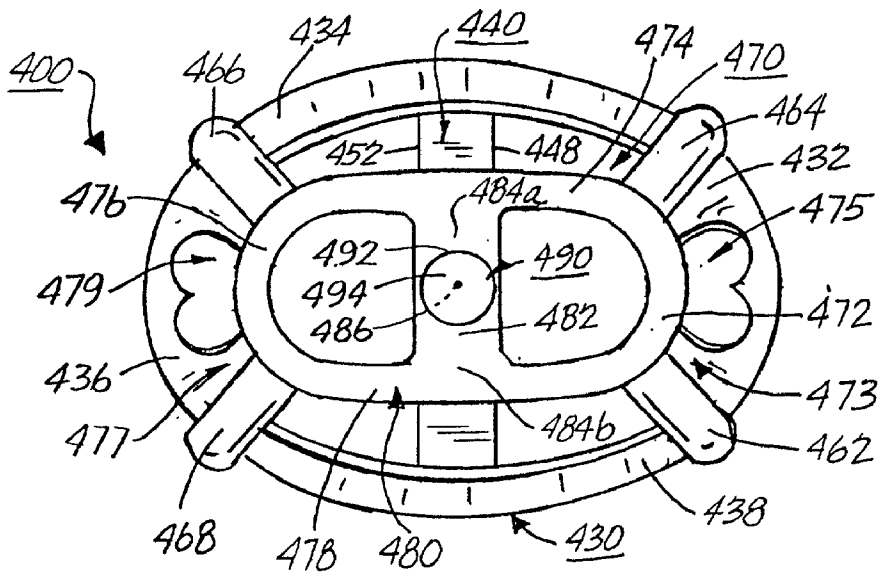


FIG. 18B

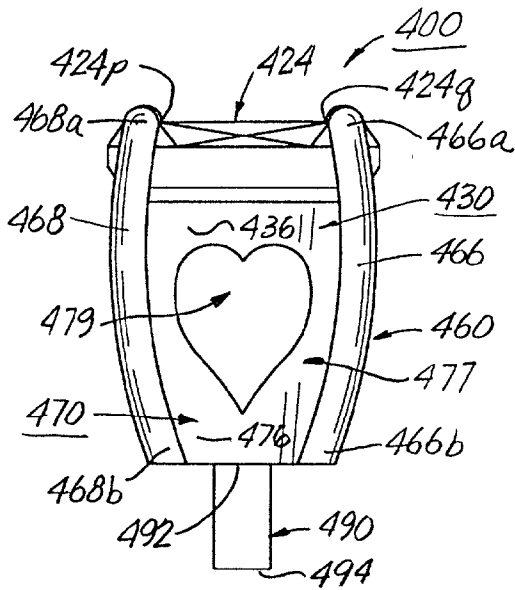


FIG. 19

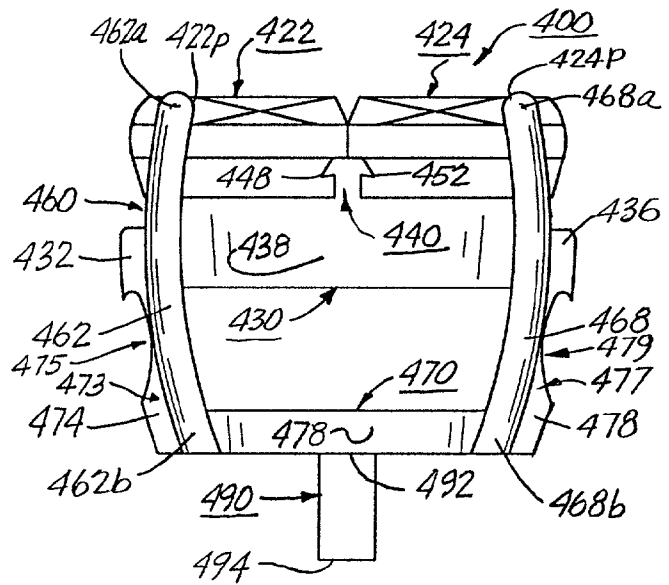
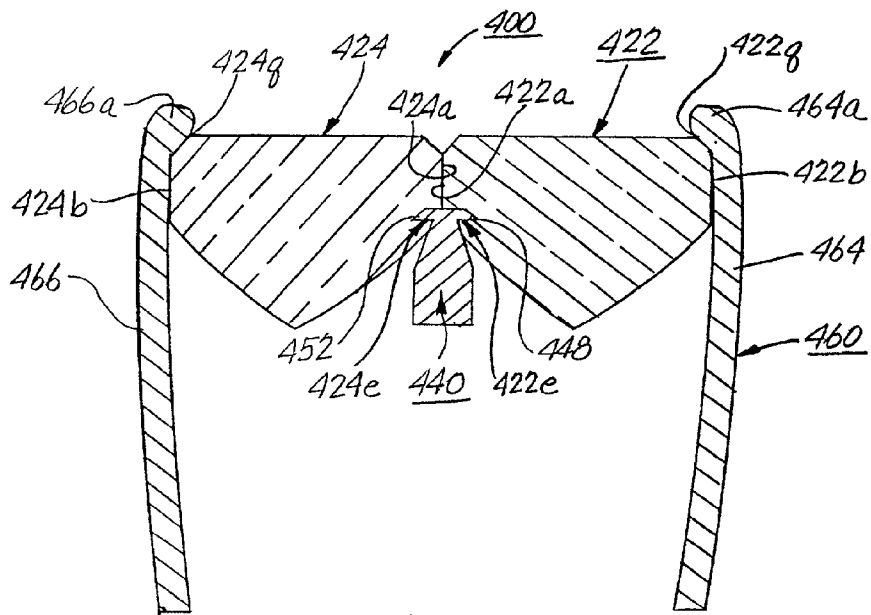
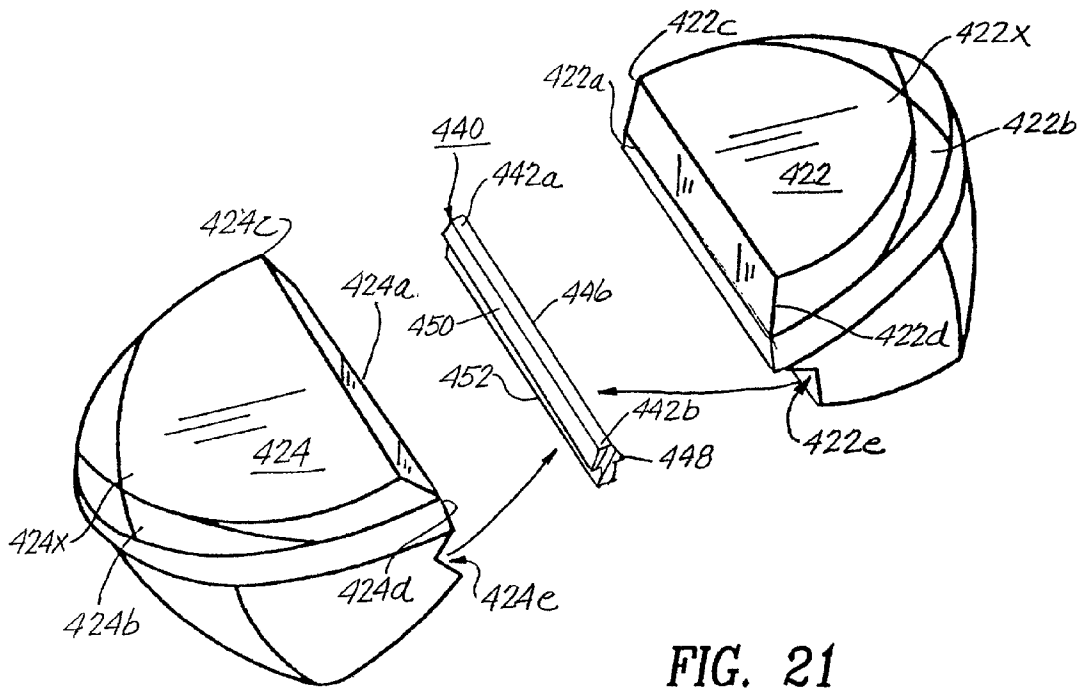


FIG. 20



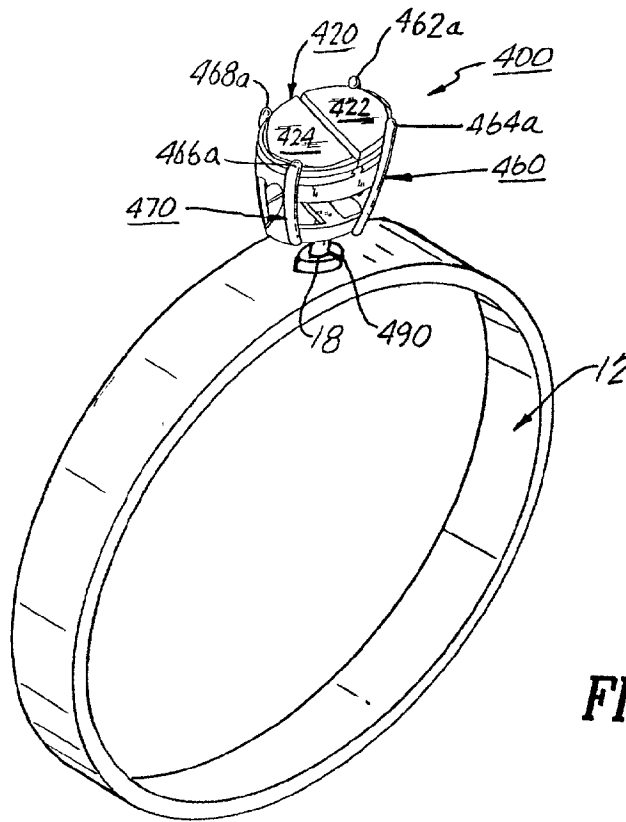


FIG. 23

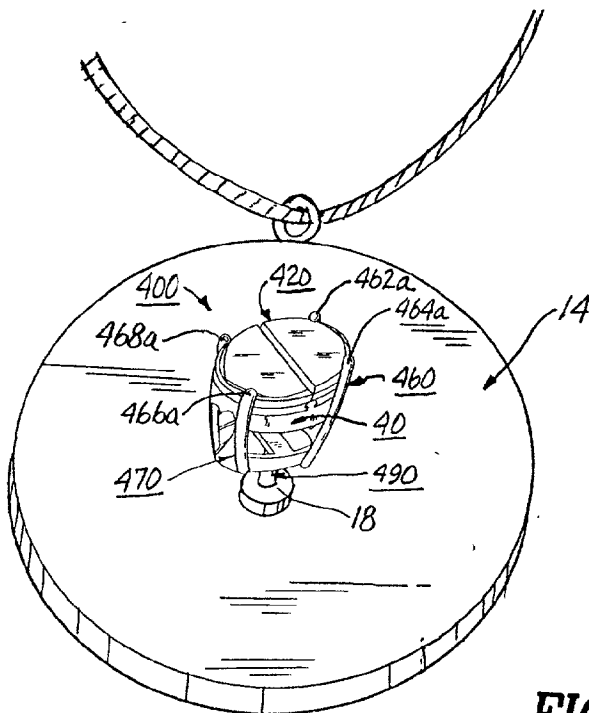


FIG. 24

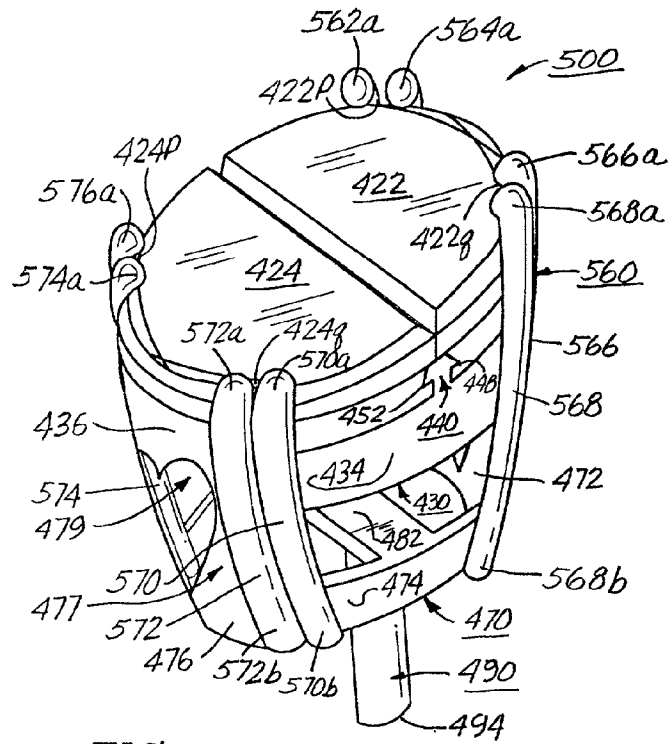


FIG. 25

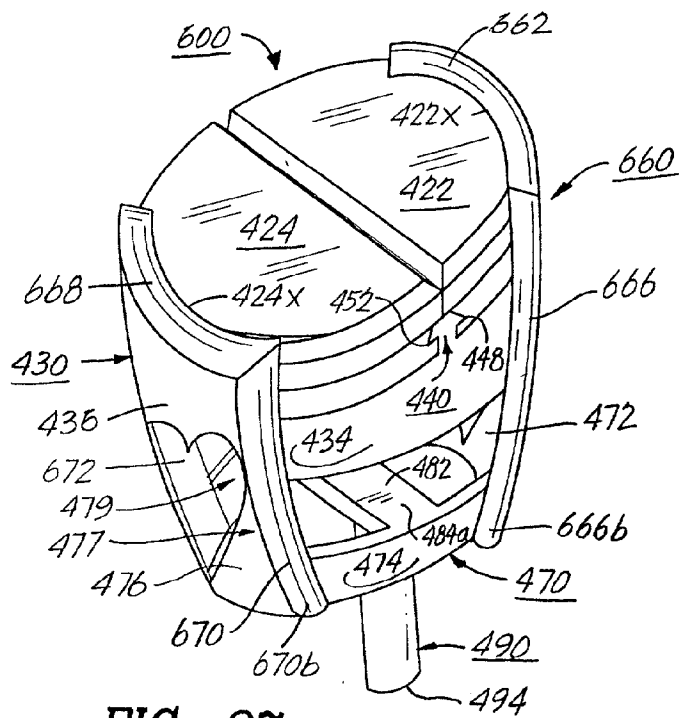
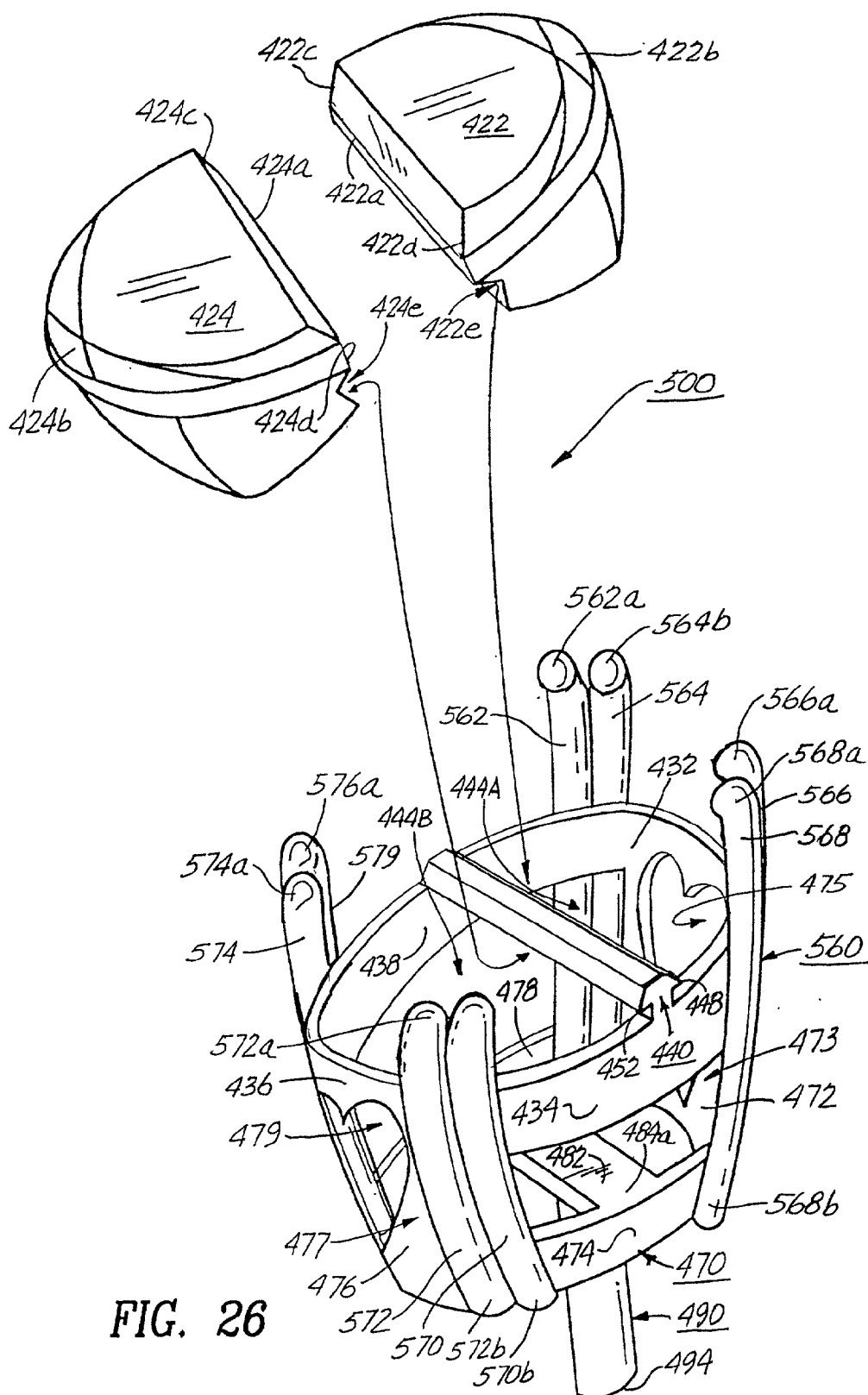
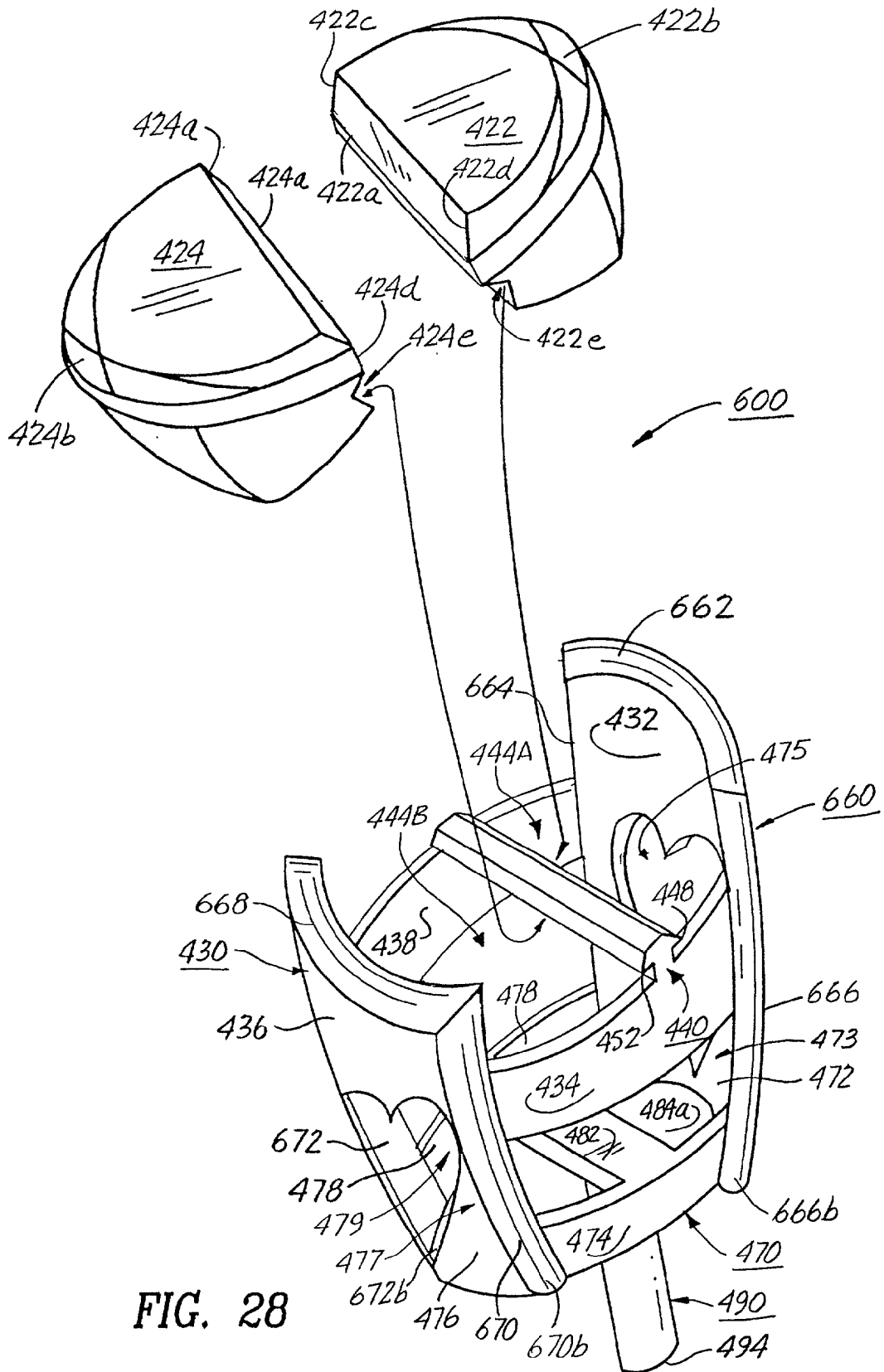


FIG. 27





OVAL GEMSTONE ARRANGEMENTS WITH SETTINGS

FIELD OF THE INVENTION

[0001] The present invention relates to multi-gemstone arrangements and settings for receiving them. More particularly, these multi-gemstone arrangements include six (6) or two (2) gemstone sections for forming oval-shaped gemstone arrangements. Each of the gemstone sections use a square princess-cut diamond having one or two of its sides rounded. These combined oval-shaped gemstone arrangements give a larger appearance than that of a single oval gemstone of a similar carat weight.

BACKGROUND OF THE INVENTION

[0002] Invisible gemstone settings are well known in the art and refer to a setting for gemstones in which the setting lies beneath the visible surface of the gemstones. Typically, to invisibly set a large number of gemstones, the approach of the prior art has been to notch the gemstones and to mount them in a setting having two or more parallel walls, with metallic projections, for example, prongs or the like, protruding from these walls for engaging the notches. Generally, these walls define channels in which the gemstones are set abutting one another in accordance with the invisible mounting method.

[0003] Invisible gemstone settings for jewelry products suffer from a number of disadvantages. First, casting of a jewelry item with a gemstone region including a recess and walls and preparing T-shaped cross bars is relatively difficult and is therefore a costly process. Second, the assembly of the jewelry item requires considerable time of a skilled worker which adds greatly to the overall cost of the jewelry item. And third, the finished jewelry item cannot be readily downsized without disturbing the invisible gemstone setting.

[0004] Therefore, there remains a need for a novel invisible and multiple gemstone setting for attachment to rings which overcomes the disadvantages of a conventional multi-stone and invisible gemstone setting for jewelry items. The multi-stone setting member should include an oval-shaped metal setting for holding six or two princess cut gemstones in which the combined gemstone aggregate gives a larger appearance than that of a single gemstone of a similar carat weight, and the setting having a positioning pin thereon for mounting of the setting member to a ring. Additionally, the multi-stone setting would give the appearance that the oval setting (metal) is essentially invisible to the eye of the wearer.

DESCRIPTION OF THE PRIOR ART

[0005] Invisible gemstone settings, multi-gemstone settings, jewelry settings, multi-gemstone arrangements and the like having various designs, structures, configurations and functions have been disclosed in the prior art. For example, U.S. Pat. No. 5,848,539 to OUZOUNIAN discloses an invisible, multiple precious stone setting for mounting two or more rows of round-shaped precious stones. This prior art patent does not disclose the structure and configuration of the present invention.

[0006] U.S. Pat. No. 5,520,017 to VIVAT discloses jewelry items with invisible gemstone settings, wherein the

gemstone setting includes at least two walls so as to provide at least one groove. The groove sideable receives one or more rectangularly-shaped precious stones therein. This prior art patent does not disclose the structure and configuration of the present invention.

[0007] U.S. Pat. No. 5,123,265 to RAMOT discloses an invisible gemstone setting, wherein the gemstone setting assembly includes one or more gemstones and a setting having a base formed with a plurality of ribs defining one or more sockets of polygonal configuration for receiving the gemstones. This prior art patent does not disclose the structure and configuration of the present invention.

[0008] U.S. Design Pat. No. DES. 389,087 to KATTAN discloses an oval gemstone arrangement in a pave setting. This oval gemstone arrangement includes nine (9) gemstone sections for forming this oval-shaped gemstone. This prior art design patent does not disclose or teach the six or two oval gemstone arrangement of the present invention using a princess-cut diamond for each gemstone section.

[0009] U.S. Design Pat. No. DES. 392,588 to BACHAR discloses an elliptical gemstone arrangement. This elliptical gemstone arrangement includes four (4) marquise-cut gemstone sections for forming this elliptical-shaped gemstone. This prior art design patent does not disclose or teach the six or two oval gemstone arrangement of the present invention using princess-cut diamond for each gemstone section.

[0010] U.S. Design Pat. No. DES. 392,589 to BACHAR discloses an oval gemstone arrangement. This oval gemstone arrangement includes four (4) oval-cut gemstone sections for forming this oval-shaped gemstone. This prior art design does not disclose or teach the six or two oval gemstone arrangement of the present invention using a princess-cut diamond for each gemstone section.

[0011] U.S. Design Pat. No. DES. 415,062 to WOLF discloses an oval/rectangular-shaped gemstone/jewelry arrangement. This jewelry arrangement includes twelve (12) gemstones for forming this oval/rectangular shaped arrangement. This prior art design patent does not disclose or teach the six or two oval gemstone arrangement of the present invention using a princess-cut diamond for each gemstone section.

[0012] None of the aforementioned prior art patents disclose or teach the multi-stone setting member of the present invention for receiving therein six or two partially rounded princess-cut gemstones which gives the appearance of a single oval-shaped gemstone with the setting having an invisible profile.

[0013] Accordingly, it is an object of the present invention to provide a multi-stone setting member for holding therein six or two partially rounded princess-cut gemstones in which the combined aggregate of the six or two gemstones gives a larger appearance than that of a single oval gemstone of a similar carat weight (i.e. a 1.2 carat presentation of the combined six or two gemstones appears as large as a 2.0 carat oval gemstone, as the present invention would have a larger table).

[0014] Another object of the present invention is to provide a multi-stone setting member having six or two gemstones therein that is less expensive than a single oval gemstone of a similar carat weight (i.e., the 1.2 carat

presentation of the combined six or two gemstones is less expensive than an actual 1.2 carat single oval gemstone of the same carat weight).

[0015] Another object of the present invention is to provide a multi-stone setting member having six or two partially rounded princess-cut gemstones therein which gives the appearance that the setting is substantially invisible at distances greater than 12 inches from the jewelry product.

[0016] Another object of the present invention is to provide a multi-stone setting member that can be varied in size depending upon the total combined carat weight of the six or two gemstones within the setting member.

[0017] Another object of the present invention is to provide a multi-stone setting member that can be made from precious metals such as gold, silver, platinum or palladium for setting precious gemstones including diamonds, rubies, sapphires, emeralds and the like.

[0018] Another object of the present invention is to provide a multi-stone setting member that can be attached to a jewelry ring by a plurality of positioning pins integrally connected to the member housing.

[0019] Another object of the present invention is to provide a multi-stone setting member having six or two gemstones therein for use in personal adornment in the form of ornamental jewelry such as rings.

[0020] A further object of the present invention is to provide a multi-stone setting member having six or two gemstones therein that can be produced in an economical manner and is readily affordable by the jewelry consumer.

SUMMARY OF THE INVENTION

[0021] In accordance with first embodiment of the present invention, there is provided a multi-stone oval setting having four substantially triangular-shaped gemstones or diamonds therein and two substantially rectangular-shaped gemstones or diamonds therein and held together in the setting to produce the appearance of an overall oval-shaped gemstone. The multi-stone oval setting of the first embodiment includes a prong assembly having four prong members; and one or more curved side rail member connected to the four prong members to form an oval-shaped setting. The oval-shaped setting also includes a first crossbar member with first and second insert retaining edges formed therein and extending in a first direction; and having a second crossbar member with third and fourth insert retaining edges formed therein and being parallel to the first crossbar member and also extending in the first direction; and having a third crossbar member being perpendicular to the first and second crossbar members and extending in a second direction. The first and second crossbar members are connected at their respective ends thereof to two opposed side rail members of the curved side rail members and the third crossbar member is connected at its respective ends thereof to the other two opposed side rail members of the curved side rail members for forming six seating areas. Each of the six seating areas are used for receiving therein each of the six gemstones or diamonds within each of the six seating areas; wherein the six seating areas define two outer rows of gemstones or diamonds and an inner row of gemstones or diamonds. The four triangular-shaped gemstones or diamonds each have two side walls and a curved outer wall and three corners,

respectively, and the two rectangular-shaped gemstones or diamonds each have three side walls and a curved outer wall and four corners, respectively. Each of the four triangular-shaped gemstones or diamonds have at least one of the side walls with a groove formed therein for engaging the first or fourth insert retaining edge of the first and second crossbar members for seating two of the four triangular-shaped gemstones or diamonds in each of the two outer rows and for supporting the four triangular-shaped gemstones or diamonds in the two outer rows of the oval-shaped setting. Each of the two rectangular-shaped gemstones or diamonds have two parallel side walls of the three side walls with a groove formed in each of the two side walls for engaging the second or third insert retaining edges of the first and second crossbar members for seating the two rectangular-shaped gemstones or diamonds in the inner row and for supporting the two rectangular-shaped gemstones or diamonds in the inner row of the oval-shaped setting. Additionally, each of the four prong members are used for engaging the gemstones or diamonds in order to keep the four gemstones or diamonds seated within each of the four seating areas of the two outer rows of the oval-shaped setting.

[0022] In an alternate embodiment of the present invention, there is provided a multi-stone oval setting and two substantially semi-circular shaped gemstones or diamonds in the oval setting. The multi-stone oval setting of the second embodiment includes a prong assembly having four prong members; and one or more curved side rail members connected to the four prong members to form an oval-shaped setting. The center crossbar member is connected at the ends thereof to the curved side rail members for forming two seating areas; and the crossbar member has first and second insert retaining edges thereon. The two seating areas are each for receiving one of the two gemstones or diamonds. The two semi-circular shaped gemstones or diamonds each have one side wall and a curved outerwall and two corners, respectively. Each of the two semi-circular shaped gemstones or diamonds have one of the side walls with a groove formed therein for engaging the first or second insert retaining edges of the center crossbar member for seating each of the semi-circular shaped gemstones or diamonds within each of the two seating areas and for supporting the two gemstones or diamonds in the two seating areas. Also, each of the four prong members are used for engaging the gemstones in order to keep the two gemstones or diamonds seated within the two seating areas of the multi-stone oval setting.

BRIEF DESCRIPTION OF THE DRAWINGS

[0023] Further objects, features, and advantages of present invention will become apparent upon the consideration of the following detailed description of the presently-referred embodiment when taken in conjunction with the accompanying drawings, wherein:

[0024] **FIG. 1** is a top perspective view of the oval gemstone arrangement and setting of the first embodiment of the present invention showing the six partially rounded princess-cut gemstones forming a single oval-shaped gemstone arrangement within a multi-stone oval-shaped setting member;

[0025] **FIG. 2** is a top perspective view of the oval gemstone arrangement of the first embodiment of the present

invention showing the six partially rounded princess-cut gemstones formed in a single oval-shaped gemstone arrangement;

[0026] FIG. 2A is an exploded top plan view of the oval gemstone arrangement of the first embodiment of the present invention showing the elliptical arc angles (α) and (β) on the six partially rounded princess-cut gemstones formed for the single oval-shaped gemstone arrangement;

[0027] FIG. 3 is an exploded top perspective view of the oval gemstone arrangement and setting of the first embodiment of the present invention showing the six partially rounded gemstone sections being placed on a pair of crossbar members of the multi-stone oval-shaped setting member;

[0028] FIG. 4A is a top plan view of the multi-stone setting of the first embodiment of the present invention showing the plurality of the curved holding prong members, the upper oval frame assembly and the pair of crossbar members;

[0029] FIG. 4B is a bottom plan view of the multi-stone setting of the first embodiment of the present invention showing the setting connecting bar member, the bottom gallery, the lower frame assembly, the upper oval frame assembly and the prong assembly;

[0030] FIG. 5 is a side elevational view of the multi-stone setting of the first embodiment of the present invention showing a pair of the curved holding prong members, the upper oval frame assembly, the lower oval frame member and the setting connecting bar member;

[0031] FIG. 6 is a front elevational view of the multi-stone setting of the first embodiment of the present invention showing a pair of the curved holding prong members, the upper oval frame assembly having each of the crossbar members thereon, the lower frame assembly, and the setting connecting bar member;

[0032] FIG. 7A is a top perspective view of the oval gemstone arrangement and setting of the first embodiment of the present invention showing the four partially rounded gemstone sections being slidably connected with the first center crossbar member of the oval frame assembly;

[0033] FIG. 7B is a top perspective view of the oval gemstone arrangement and setting of the first embodiment of the present invention showing the two partially rounded gemstone sections being slidably connected with the second center crossbar member of the oval frame assembly;

[0034] FIG. 8 is a cross-sectional view of the oval gemstone arrangement and setting of the first embodiment of the present invention taken along lines 8-8 of FIG. 1 showing the first and second crossbar members within the cut grooves of the three gemstone sections;

[0035] FIG. 9 is a top perspective view of the oval gemstone arrangement and setting of the first embodiment of the present invention showing the multi-stone oval setting connected to a ring member;

[0036] FIG. 10 is a top perspective view of the oval gemstone arrangement and setting of the first embodiment of the present invention showing the multi-stone oval setting connected to a pendant member;

[0037] FIG. 11 is a top perspective view of the oval gemstone arrangement and setting of the second embodiment of the present invention showing six partially rounded princess-cut gemstones forming a single oval-shaped gemstone arrangement within a first alternate multi-stone oval setting member;

[0038] FIG. 12 is an exploded top perspective view of the oval gemstone arrangement and setting of the second embodiment of the present invention showing the six gemstone sections being placed on the first alternate multi-stone oval-shaped setting member;

[0039] FIG. 13 is a top perspective view of the oval gemstone arrangement and setting of the third embodiment of the present invention showing six partially rounded princess-cut gemstones forming a single oval-shaped gemstone arrangement within a second alternate multi-stone oval setting member;

[0040] FIG. 14 is an exploded top perspective view of the oval gemstone arrangement and setting of the third embodiment of the present invention showing the six partially rounded gemstone sections being placed on the second alternate multi-stone oval setting member;

[0041] FIG. 15 is a top perspective view of the oval gemstone arrangement and setting of the fourth embodiment of the present invention showing two partially rounded princess-cut gemstones forming a single oval-shaped gemstone arrangement within a third alternate multi-stone oval setting member;

[0042] FIG. 16 is a top perspective view of the oval gemstone arrangement of the fourth embodiment of the present invention showing the two semi-circular rounded princess-cut gemstones formed in a single oval-shaped gemstone arrangement;

[0043] FIG. 16A is an exploded top plan view of the oval gemstone arrangement of the fourth embodiment of the present invention showing each of the elliptical arc angles (γ) in each of the two partially rounded gemstone sections formed for the single oval shaped gemstone arrangement;

[0044] FIG. 17 is an exploded top perspective view of the oval gemstone arrangement and setting of the fourth embodiment of the present invention showing the two partially rounded gemstone sections being placed on a center crossbar member of the third alternate multi-stone oval setting member;

[0045] FIG. 18A is a top plan view of the multi-stone setting of the fourth embodiment of the present invention showing the plurality of curved holding prong members, the upper oval frame assembly and the center crossbar members;

[0046] FIG. 18B is a bottom plan view of the multi-stone setting of the fourth embodiment of the present invention showing the setting connecting bar member, the bottom gallery, the lower frame assembly and the prong assembly;

[0047] FIG. 19 is a side elevational view of the multi-stone setting of the fourth embodiment of the present invention showing a pair of the curved holding prong members, the upper oval frame member, the lower frame assembly and the setting connecting bar member;

[0048] FIG. 20 is a front elevational view of the multi-stone setting of the fourth embodiment of the present invention showing a pair of the curved holding prong members, the upper oval frame assembly having each of the crossbar members thereon, the lower frame assembly, and the setting connecting bar member;

[0049] FIG. 21 is a top perspective view of the oval gemstone arrangement and setting of the fourth embodiment of the present invention showing the two partially rounded gemstone sections sidably connected with the center crossbar member of the upper oval frame assembly;

[0050] FIG. 22 is a cross-sectional view of the oval gemstone arrangement and setting of the fourth embodiment of the present invention taken along lines 22-22 of FIG. 15 showing the center crossbar member within the cut grooves of the two gemstone sections;

[0051] FIG. 23 is a top perspective view of the oval gemstone arrangement and setting of the fourth embodiment of the present invention showing the multi-stone oval setting connected to a ring member;

[0052] FIG. 24 is a top perspective view of the oval gemstone arrangement and setting of the fourth embodiment of the present invention showing the multi-stone oval setting connected to a pendant member;

[0053] FIG. 25 is a top perspective view of the oval gemstone arrangement and setting of the fifth embodiment of the present invention showing two partially rounded princess-cut gemstones forming a single oval-shaped gemstone arrangement within a fourth alternate multi-stone oval setting member;

[0054] FIG. 26 is an exploded top perspective view of the oval gemstone arrangement and setting of the fifth embodiment of the present invention showing the two partially oval gemstone sections being placed on the fourth alternate multi-stone oval setting member;

[0055] FIG. 27 is a top perspective view of the oval gemstone arrangement and setting of the sixth embodiment of the present invention showing two partially rounded princess-cut gemstone sections forming a single oval-shaped gemstone arrangement within a fifth alternate multi-stone oval setting member; and

[0056] FIG. 28 is an exploded top perspective view of the oval gemstone arrangement and setting of the sixth embodiment of the present invention showing the two partially rounded gemstone sections being placed on the fifth alternate multi-stone oval setting member.

DETAILED DESCRIPTION OF THE EMBODIMENTS

OVERVIEW

[0057] The multi-stone oval settings 10, 200, 300, 400, 500 and 600 and their component parts of the first, second, third, fourth, fifth and sixth embodiments of the present invention for forming a gemstone or diamond arrangement 20 and 420 within each of those oval settings are represented in detail by FIGS. 1 through 28 of the patent drawings. The multi-stone oval settings 10, 200 and 300 are used for holding four substantially triangular-shaped gemstones or diamonds 22, 24, 30 and 32 and two substantially rectan-

gular-shaped gemstones or diamonds 26 and 28 within the oval settings 10, 200 or 300, as shown in FIGS. 1 to 14 of the drawing.

[0058] Each of the triangular-shaped gemstones or diamonds 22, 24, 30 and 32 include two side walls 22a and 22b, 24a and 24b, 30a and 30b, and 32a and 32b; and includes a curved outer wall 22c, 24c, 30c and 32c, respectively. Also, each of the gemstones or diamonds 22, 24, 30 and 32 include a first outer corner 22e, 24e, 30e and 32e, a second outer corner 22f, 24f, 30f and 32f and a third inner corner 22g, 24g, 30g and 32g, respectively, as shown in FIG. 2A of the drawings. Each curved outer wall 22c, 24c, 30c and 32c has an elliptical arc angle α in the range of 50° to 80° with a preferred elliptical arc angle α of 65°. Each of the gemstones or diamonds 22, 24, 30 and 32 are made from a princess-cut (square) gemstone or diamond prior to the laser cutting of each outer curved (radius) wall 22c, 24c, 30c and 32c to a specified arc angle α by a laser apparatus (not shown), as depicted in FIG. 2A of the drawings. Further, each of the triangular-shaped gemstones or diamonds 22, 24, 30 and 32 include a grooved slot 22d, 24d, 30d and 32d within each of the side walls 22a, 24a, 30a and 32a, respectively, such that the grooved slots 22d, 24d, 30d and 32d are used to receive the first and fourth insert means 55 and 65 of the first and second crossbar members 50 and 60 for the nesting and seating in the outer rows R1 and R3 of gemstones or diamonds 22, 24, 30 and 32, respectively, within the multi-stone oval settings 10, 200 and 300 of the first, second and third embodiments of the present invention.

[0059] Each of the rectangular-shaped gemstones or diamonds 26 and 28 include three side walls 26a, 26b and 26c, and 28a, 28b and 28c; and include a curved outer wall 26d and 28d, respectively. Also, each of the gemstones or diamonds 26 and 28 include a first outer corner 26e and 28e, a second outer corner 26f and 28f, a third inner corner 26g and 28g, and a fourth inner corner 26h and 28h, as shown in FIG. 2A of the drawings. Each curved outer wall 26d and 28d has an elliptical arc angle β in the range of 30° to 50° with a preferred elliptical arc angle β of 40°. Each of the gemstones or diamonds 26 and 28 are made from a princess-cut (square) gemstone or diamond prior to the laser cutting of each outer curved (radius) wall 26d and 28d to a specified arc angle β by a laser apparatus (not shown), as depicted in FIG. 2A of the drawings. Further, each of the rectangular/square-shaped gemstones or diamonds 26 and 28 include grooved slots 26j and 26k, and 28j and 28k within each of the side walls 26a and 26b, and 28a and 28b, respectively, such that the grooved slots 26j, 28j, 26k and 28k are used to receive the second and third insert means 57 and 67 of the first and second crossbar members 50 and 60 for the nesting and seating in the inner row R2 of gemstones or diamonds 26 and 28, respectively, within the multi-stone oval settings 10, 200 and 300 of the first, second and third embodiments of the present invention.

[0060] All aspects of these alternate embodiments 200 and 300 of the oval settings are the same as the first embodiment of the multi-stone oval setting 10, except for the structure, configuration and/or design of the prong assembly 240 or the holding end cap assembly 340 and/or to the number of prongs or holding members (8 or 2) used in holding the

gemstones or diamonds **22** to **32** within oval settings **200** or **300**, respectively, as shown in **FIGS. 12 and 14** of the drawings.

[0061] The multi-stone oval setting **10** of the first embodiment of the present invention, as shown in **FIGS. 1 through 10** of the patent drawing, includes an upper frame assembly **40** having first, second and third crossbar members **50**, **60** and **70** attached thereto, a prong assembly **80** having four prong members **82**, **84**, **86** and **88** attached thereto, a lower frame assembly **90**, and a setting connection bar member **110**.

[0062] The multi-stone oval setting **200** of the second embodiment of the present invention, as shown in **FIGS. 11 and 12** of the drawings, is exactly the same as the multi-stone oval setting **10** of the first embodiment except for the structure and design of the prong assembly **240** having four pairs of prong members **242** and **244**, **246** and **248**, **250** and **252**, and **254** and **256**, respectively, thereon. In all other respects this second embodiment is exactly the same as the first embodiment **10** of the multi-stone oval setting of the present invention.

[0063] The multi-stone oval setting **300** of the third embodiment of the present invention, as shown in **FIGS. 13 and 14** of the drawings, is exactly the same as the multi-stone oval setting **10** of the first embodiment except for the structure and configuration of the prong assembly **80** of oval setting **10** being different. The prong assembly **80** of the first embodiment has been replaced by an end cap holding assembly **340** having two end cap holding members **342** and **348** connected to the upper frame assembly **40** of oval setting **300**. In all other respects this third embodiment is exactly the same as the first embodiment **10** of the multi-stone oval setting of the present invention.

[0064] The multi-stone oval settings **400**, **500** and **600** are used for holding two substantially semi-circular shaped gemstones or diamonds **422** and **424** within the oval settings **400**, **500** and **600**, as shown in **FIGS. 15 through 28** of the patent drawings. Each of the semicircular shaped gemstones or diamonds **422** and **424** includes an inner side wall **422a** and **424a**, and an outer curved wall **422b** and **424b**, respectively. Also, each of the gemstones or diamonds include a first inner corner **422c** and **424c** and a second inner corner **422d** and **424d**, respectively, as shown in **FIG. 16A** of the drawings. Each curved outer wall **422b** and **424b** has an elliptical arc angle gamma (δ) in the range of 175° to 185° with a preferred elliptical arc angle gamma (δ) of 180° . Each of the gemstones or diamonds **422** and **424** is made from a princess-cut (square) gemstone or diamond prior to the laser cutting of each outer curved (radius) wall **422b** and **424b** to a specified arc angle gamma (δ) by a laser apparatus (not shown), as depicted in **FIG. 16A** of the drawings. Further, each of the semi-circular shaped gemstones or diamonds **422** and **424** include a grooved slot **422e** and **424e** within each of the side walls **422a** and **424a**, respectively, such that the grooved slots **422e** and **424e** are used to receive the first and second insert means **448** and **452** of the center crossbar member **440** for the nesting and seating of the gemstones or diamonds **422** and **424** within the multi-stone oval settings **400**, **500** and **600** of the fourth, fifth and sixth embodiments of the present invention.

[0065] All aspects of these alternate embodiments **400**, **500** and **600** of the oval settings are the same as the first

embodiment of the multi-stone **10**, except for the design of the oval settings having only a single center crossbar member **440** within each of the oval settings **400**, **500**, and **600**, as shown in **FIGS. 16, 26 and 28** of the drawings. The prong assemblies **80**, **240** and **340** of the first, second and third embodiments **10**, **100** and **200** are exactly the same as the prong assemblies **460**, **560** and **660** of the fourth, fifth and sixth embodiments, respectively.

[0066] The multi-stone oval setting **400** of the fourth embodiment of the present invention, as shown in **FIGS. 15 through 24** of the drawings, includes an upper frame assembly **430** having a center crossbar member **440** attached thereto, a prong assembly **460** having four prong members **462**, **464**, **466** and **468** attached thereto, a lower frame assembly **470**, and a setting connection bar member **490**.

[0067] The multi-stone oval setting **500** of the fifth embodiment of the present invention, as shown in **FIGS. 25 and 26** of the drawings, is exactly the same as the multi-stone oval setting **400** of the fourth embodiment except for the structure and design of the prong assembly **560** having four pairs of prong members **562** and **564**, **566** and **568**, and **570** and **572**, and **574** and **576**, respectively, thereon. In all other respects this fifth embodiment is exactly the same as the fourth embodiment **400** of the multi-stone oval setting of the present invention.

[0068] The multi-stone oval setting **600** of the sixth embodiment of the present invention, as shown in **FIGS. 27 and 28** of the drawings, is exactly the same as the multi-stone oval setting **400** of the fourth embodiment except for the structure and configuration of the prong assembly **460** of oval setting **400** being different. The prong assembly **460** of the fourth to embodiment has been replaced by an end cap holding assembly **660** having two end cap holding members **662** and **668** connected to the upper frame assembly **430** of oval setting **600**. In all other respects this sixth embodiment is exactly the same as the fourth embodiment **400** of the multi-stone oval setting of the present invention.

[0069] All of these multi-stone oval settings **10**, **200**, **300**, **400**, **500** and **600** having gemstones or diamonds **22** to **32** therein or gemstones or diamonds **422** and **424** therein can be used in making of such jewelry products like rings **12**, pendants **14**, brooches, pins and necklaces, etc, as shown in **FIGS. 9, 10, 23 and 24** of the drawings. Also, the multi-stone oval settings **10**, **200**, **300**, **400**, **500** and **600** can be made of gold, silver, platinum, palladium, or other precious metals. The multi-stone oval settings **10**, **200**, **300**, **400**, **500** or **600** can also be made into different size settings depending upon the size (carat weight) of the triangular-shaped and rectangular-shaped gemstones or diamonds **22** to **32** being therein, or the gemstones or diamonds **422** and **424** being mounted therein. The total carat weight for the gemstones or diamonds **22** to **32** and gemstones or diamonds **422** and **424** typically are in the range of 0.36 carats to 4.0 carats per multi-stone oval setting **10**, **200**, **300**, **400**, **500** or **600**. Additionally, other types of gemstones such as rubies emeralds and sapphires can be used for the multi-stone oval settings **10**, **200**, **300**, **400**, **500** or **600** of the present invention.

FIRST EMBODIMENT 10

[0070] The multi-stone oval setting **10** and its component parts of the first embodiment of the present invention are

represented in detail by FIGS. 1 to 10 of the patent drawings. The multi-stone oval setting 10, as shown in FIGS. 1 and 2, is used for holding in place four (4) substantially triangular-shaped gemstones or diamonds 22, 24, 30 and 32 and two (2) substantially rectangular-shaped gemstones or diamonds 26 and 28 in which to form an oval jewelry arrangement 20. The multi-stone oval setting 10 includes an upper frame assembly 40 having first, second and third crossbar members 50, 60 and 70 attached thereto, a prong assembly 80 having four prong members 82, 84, 86 and 88 attached thereto, a lower frame assembly 90, and a setting connection bar member 110.

[0071] The upper frame assembly 40, as shown in FIGS. 4, 5 and 6 of the drawings, includes a first curved side rail member 42, and a second curved side rail member 44, a third curved side rail member 46, and a fourth curved side rail member 48. The upper frame assembly 40 further includes a first crossbar member 50 and a second crossbar member 60 each having outer ends 52a, 52b, 62a and 62b, respectively, thereon. Each of the first and second crossbar members 50 and 60 at their respective outer ends 52a and 52b and 62a and 62b are connected to two opposing curved side rail members 44 and 48, respectively, as depicted in FIG. 4A of the drawings. The third crossbar member 70 also has outer ends 72a and 72b being connected to two opposing curved side rail members 42 and 46, respectively. Further, the first and second crossbar members 50 and 60 are perpendicular to the third crossbar member 70, as shown in FIGS. 3 and 4A of the drawings, and the first and second crossbar members 50 and 60 are at a slightly higher elevated plane relative to the third crossbar member 70. Thus, the first, second and third crossbar members 50, 60 and 70 form a first outer row R1 having seating areas 72S and 73S therein, a second outer row R3 having seating areas 76S and 77S therein, and an inner row R2 having seating areas 74S and 75S therein. The first, second, third and fourth seating areas 72S, 73S, 76S and 77S have triangular-shaped configurations for holding and seating the four (4) triangular-shaped gemstones or diamonds 22, 24, 30 and 32 therein. The inner row R2 seating areas 74S and 75S have rectangular-shaped configurations for holding and seating the two (2) rectangular-shaped gemstones or diamonds 26 and 28 therein. The first crossbar member 50 includes a first wall surface 54 having a first retaining insert edge member 55 thereon, and a second wall surface 56 having a second retaining insert edge member 57 thereon. The second crossbar member 60 includes a first wall surface 64 having a first retaining insert edge member 65 thereon, and a second wall surface 66 having a second retaining insert edge member 67 thereon.

[0072] The first outer row R1 seating areas 72S and 73S are used to retain and hold in place gemstones or diamonds 22 and 24, the second outer row R3 seating areas 76S and 77S are used to retain and hold in place gemstones or diamonds 30 and 32, and the inner row R2 seating areas 74S and 75S are used to retain and hold in place gemstones or diamonds 26 and 28, respectively, therein. The first outer row R1 of seating areas 72S and 73S includes gemstones or diamonds 22 and 24 each having a grooved slot 22d and 24d formed in its side wall 22a and 24a, respectively, wherein the grooved slots 22d and 24d on gemstones or diamonds 22 and 24 engage the first retaining insert edge member 55 of the first crossbar member 50 for the nesting and seating of gemstones or diamonds 22 and 24 within the first outer row R1 of seating areas 72S and 73S, respectively, therein. The

second outer row R3 of seating areas 76S and 77S includes gemstones or diamonds 30 and 32 each having a grooved slot 30d and 32d formed in its side wall 30a and 32a, respectively, wherein the grooved slots 30d and 32d on gemstones or diamonds 30 and 32 engage the first retaining insert edge member 65 of the second crossbar member 60 for the nesting and seating of gemstones or diamonds 30 and 32 within the second outer row R3 of seating areas 76S and 77S, respectively, therein. The inner row R2 seating areas 74S and 75S includes gemstones or diamonds 26 and 28 each having grooved slots 26j and 28j within its side walls 26a and 28a and having grooved slots 26k and 28k within its side walls 26b and 28b, respectively, such that the grooved slots 26j, 28j, 26k and 28k are used for accepting the second retaining insert edge members 57 and 67 of the first and second crossbar member 50 and 60, respectively, for the nesting and seating in the inner row R2 of seating areas 74S and 75S of gemstones and diamonds 26 and 28, respectively, within the multi-stone oval setting 10 of the first embodiment of the present invention, as shown in FIGS. 3, 7A and 7B of the drawings.

[0073] The curved prong assembly 80, as shown in FIGS. 3, 5, and 6 of the drawings, includes a first curved prong member 82, a second curved prong member 84, a third curved prong member 86, and a fourth curved prong member 88. The four (4) curved side rail members 42 to 48 are connected to the four (4) curved prong members 82 to 88, respectively, to form the multi-stone oval-shaped setting 10. Prong members 82, 84, 86 and 88 include upper and lower ends 82a, 82b, 84a, 84b, 86a, 86b, 88a, and 88b, respectively, as shown in FIG. 3 of the drawings. Upper end 82a of curved prong member 82 is used for engaging the adjacent curved outer wall 22c of gemstone or diamond 22 at a mid-point 22m along the curved outer wall 22c. Upper end 84a of curved prong member 84 is used for engaging the adjacent curved outer wall 24c of gemstone or diamond 24 at a mid-point 24m along the curved outer wall 24c. Upper end 86a of curved prong member 86 is used for engaging the adjacent curved outer wall 30c of gemstone or diamond 30 at a mid-point 30m along the curved outer wall 30c. Upper end 88a of curved prong member 88 is used for engaging the adjacent curved outer wall 32c of gemstone or diamond 32 at a mid-point 32m along the curved outer wall 32c. Thereby, all of the triangular-shaped gemstones or diamonds 22, 24, 30 and 32 are secured within both of the outer row seating areas 72R and 76R, respectively, of the multi-stone oval setting 10 of the present invention.

[0074] The lower ends 82b, 84b, 86b and 88b of the curved prong members 82 to 88 are attached and connected to the lower frame assembly 90. The lower frame assembly 90 includes a first curved side rail member 92, a second curved side rail member 94, a third curved side rail member 96, and a fourth curved side rail member 98 for forming a bottom gallery 100, as shown in FIG. 5 of the drawings. Further, the upper curved side rail member 42 is integrally connected to the lower curved side rail member 92 forming a single curved side rail wall member 93 having a heart-shaped opening 95 therein, and the upper curved side rail member 46 is integrally connected to the lower curved side rail member 96 forming a single curved side rail wall member 97 having a heart-shaped opening 99 therein, as shown in FIGS. 1, 3, 4B and 5 of the drawings. The bottom gallery 100 includes a bottom gallery crossbar number 102 having outer ends 104a and 104b being integrally connected

to two opposing curved side rail members **94** and **98**, respectively. Further, the four (4) curved side rail members **92** and **98** are also connected to the four (4) lower ends **82b** to **88b** of the prong members **82** to **88**, respectively, to form the aforementioned bottom gallery **100**.

[0075] The setting connecting bar member **110** includes a first end **112** and a second end **114**, such that the first end **112** of the connecting bar member **110** is integrally attached to a centrally located point **106** on the bottom gallery crossbar member **102**. The connecting bar member **110** is used to attach to a jewelry holding member **18** in forming a ring member **12** or other jewelry products such as pendants **14**, pins, brooches, clasps, necklaces, anklets and earrings, as shown in **FIGS. 9 and 10** of the drawings.

SECOND EMBODIMENT 200

[0076] The multi-stone oval setting **200** and its component parts of the second embodiment of the present invention are represented in detail by **FIGS. 11 and 12** of the drawings. The second embodiment **200** is exactly the same as the multi-stone oval setting **10** of the first embodiment except that the prong assembly **240** includes four pairs of prong members **242** and **244**, **246** and **248**, **250** and **252**, and **254** and **256**, respectively, thereon. Each pair of prong members **242** and **244**, **246** and **248**, **250** and **252**, and **254** and **256** include upper and lower ends **242a**, **242b**, **244a**, **244b**, **246a**, **246b**, **248a**, **248b**, **250a** and **250b**, **252a**, **252b**, **254a**, **254b**, **256a** and **256b**, respectively, thereon. The upper ends **242a** and **256a** of the paired prong members **252** to **256** are used for engaging and securing the triangular-shaped gemstones or diamonds **22**, **24**, **30** and **32** within each of the first and second outer row seating areas **R1** and **R3**, respectively, of seats **72S**, **73S**, **76S** and **77S**. The upper ends **242a** and **244a** of the first paired prong members **242** and **244** are used for engaging the adjacent curved outer wall **22c** of gemstone or diamond **22** at a mid-point **22m** along the curved outer wall **22c**. The upper ends **246a** and **248a** of the second paired prong members **246** and **248** are used for engaging the adjacent curved outer wall **24c** of gemstone or diamond **24** at a mid-point **24m** along the curved outer wall **24c**. The upper ends **250a** and **252a** of the third paired prong members **250** and **252** are used for engaging the adjacent curved outer wall **30c** of gemstone or diamond **30** at a mid-point **30m** along the curved outer wall **30c**. The upper ends **254a** and **256a** of the fourth paired prong members **254** and **256** are used for engaging the adjacent curved outer wall **32c** of gemstone or diamond **32** at a mid-point **32m** along the curved outer wall **32c**. Thereby, the four (4) triangular-shaped gemstones or diamonds **22**, **24**, **30** and **32** are secured within their respective seats **72S**, **73S**, **76S** and **77S** of the outer row seating areas **R1** and **R3**, respectively, of the multi-stone oval setting **200** of the present invention.

[0077] The lower ends **242b** and **244b**, **246b** and **248b**, **250b** and **252b**, and **254b** and **256b** of the curved paired prong members **242** and **256** are attached and connected to the four (4) curved side rail members **92**, **94**, **96** and **98**, respectively, of the lower frame assembly **90**, in order to form the bottom gallery **100**. In all other respects, this second embodiment **200** is exactly the same as the first embodiment **10** of the multi-stone oval setting of the present invention.

THIRD EMBODIMENT 300

[0078] The multi-stone oval setting **300** and its component parts of the third embodiment of the present invention are represented in detail by **FIGS. 13 and 14** of the drawings. The third embodiment **300** is exactly the same as the multi-stone oval setting **10** of the first embodiment except that the end cap holding assembly **340** includes a first end cap holding member **342** having a pair of vertical legs **344** and **346** attached thereto, and a second end cap holding member **348** having a pair of vertical legs **350** and **352** attached thereto. First end cap holding member **342** is used for engaging two (2) adjacent corners **22f** and **24f** of the two adjacent gemstones or diamonds **22** and **24**, respectively. Second end cap holding member **348** is used for engaging two (2) adjacent corners **30f** and **32f** of two adjacent gemstones or diamonds **30** and **32**, respectively. The first and second end cap holding members **342** and **348** of the end cap holding assembly **340** secures each of the triangular-shaped gemstones or diamonds **22**, **24**, **30** and **32** within their respective gem seating areas **72S**, **73S**, **76S** and **77S** of the first and second outer rows **R1** and **R3**, respectively, for forming the six (6) stone oval jewelry arrangement **20** of the multi-stone oval setting **300** of the present invention. Further, each of the lower ends **344b** and **346b**, **350b** and **352b** of the vertical legs **344**, **346**, **350** and **352** are connected to the four (4) curved side rail members **92** to **98**, respectively, of the lower frame assembly **90**, to form the bottom gallery **100**. In all other respects, this third embodiment is exactly the same as the first embodiment **10** of the multi-stone oval setting of the present invention.

FOURTH EMBODIMENT 400

[0079] The multi-stone oval setting **400** and its component parts of the fourth embodiment of the present invention are represented in detail by **FIGS. 15 through 24** of the patent drawings. The multi-stone oval setting **400**, as shown in **FIGS. 15 and 16**, is used for holding in place two (2) semi-circular shaped gemstones or diamonds **422** and **424** in which to form an oval jewelry arrangement **420**. The multi-stone oval setting **400** includes an upper frame assembly **430** having a center crossbar member **440** attached thereto, a prong assembly **460** having four prong member **462**, **464**, **466** and **468** attached thereto, a lower frame assembly **470**, and a setting connecting bar member **490**.

[0080] The upper frame assembly **430**, as shown in **FIGS. 18, 19 and 20** of the drawings, includes a first curved side rail member **432**, a second curved side rail member **434**, a third curved side rail member **436**, and a fourth curved side rail member **438**. The upper frame assembly **430** further includes a center crossbar member **440** having outer ends **442a** and **442b** that are connected to two opposing curved side rail members **434** and **438**, respectively, as depicted in **FIG. 18** of the drawings, which forms a first seating area **444A** and a second seating area **444B**, respectively, each having a semi-circular shape thereof. The center crossbar member **440** also includes a first wall surface **446** having a first retaining insert edge member **448** thereon, and a second wall surface **450** having a second retaining insert edge member **452** thereon.

[0081] The first seating area **444A** is used to retain and hold in place gemstone or diamond **422** and the second seating area **444B** is used to retain and hold in place

gemstone or diamond **424**, respectively. The first seating area **444A** includes gemstone or diamond **422** having a grooved slot **422e** formed on its side wall **422a**, wherein the grooved slot **422e** on gemstone or diamond **422** engages the first retaining insert edge member **448** of the center crossbar member **440** for the nesting and seating of gemstone or diamond **422** within the first seating area **444A**. The second seating area **444B** includes gemstone or diamond **424** having a grooved slot **424e** formed on its side wall **424a**, wherein the grooved slot **424e** on gemstone or diamond **424** engages the second retaining insert edge member **452** on the center crossbar member **440** for the nesting and seating of gemstone or diamond **424** within the second seating area **444B**, as shown in **FIGS. 17, 21 and 22** of the drawings.

[0082] The curved prong assembly **460**, as shown in **FIGS. 18, 19 and 20** of the drawings, includes a first curved prong member **462**, a second curved prong member **464**, a third curved prong member **466**, and a fourth curved prong member **468**. The four (4) curved side rail members **432** to **438** are connected to the four (4) curved prong members **462** to **468**, respectively, to form the multi-stone oval-shaped setting **400**. The curved prong assembly **460**, as shown in **FIGS. 15, 17, 19 and 20** of the drawings, includes curved prong members **462, 464, 466 and 468** having upper ends **462a, 464a, 466a and 468a**. The upper ends **462a** and **464a** of the curved prong members **462** and **464** are used for engaging the curved outer wall **422b** of gemstone or diamond **422** at equidistant points **422p** and **422q** along the curved outer wall **422b**. Further, the upper ends **466a** and **468a** of the curved prong members **466** and **468** are also used for engaging the curved outer wall **424b** of gemstone or diamond **424** at equidistant points **424p** and **424q** along the curved outer wall **424b**. Thereby, both gemstones or diamonds **422** and **424** are secured within respective seating areas **444A** and **444B**, respectively, of the multi-stone oval setting **400** of the present invention.

[0083] The curved prong members **462** to **468** also have lower ends **462b, 464b, 466b and 468b** being attached and connected to the lower frame assembly **470**. The lower frame assembly **470** includes a first curved side rail member **472**, a second curved side rail member **474**, a third curved side rail member **476**, and a fourth curved side rail member **478** for forming a bottom gallery **480**, as shown in **FIG. 19** of the drawings. Further, the upper curved side rail member **432** is integrally connected to the lower curved side rail member **472** forming a single curved side rail wall member **473** having a heart-shaped opening **475** therein, and the upper curved side rail member **436** is integrally connected to the lower curved side rail member **476** forming a single curved side rail wall member **477** having a heart-shaped opening **479** therein, as shown in **FIGS. 15, 17, 18B, 19 and 20** of the drawings. The bottom gallery **480** includes a bottom gallery crossbar member **482** having outer ends **484a** and **484b** being integrally connected to two opposing curved side rail members **474** and **478**, respectively. Further, the four (4) curved side rail members **472** and **478** are connected to the four (4) lower ends **462b** to **468b** of the prong members **462** to **468**, respectively to form the aforementioned bottom gallery **480**.

[0084] The setting connecting bar member **490** includes a first end **492** and a second end **494**, such that the first end **492** of the connecting bar member **490** is integrally attached to a centrally located point **486** on the bottom gallery

crossbar member **482**. Connecting bar member **490** is used for the attaching and connecting to a ring member **12** or other jewelry products such as pendants **14**, pins, brooches, clasps, necklaces, anklets and earrings, as shown in **FIGS. 23 and 24** of the drawings.

FIFTH EMBODIMENT 500

[0085] The multi-stone oval setting **500** and its component parts of the fifth embodiment of the present invention are represented in detail by **FIGS. 25 and 26** of the drawings. The fifth embodiment **500** is exactly the same as the multi-stone oval setting **400** of the fourth embodiment except that the prong assembly **560** includes four pairs of prong members **562** and **564, 566 and 568, 570 and 572**, and **574 and 576**, respectively, thereon. Each pair of prong members **562** and **564, 566 and 568, 570 and 572**, and **574 and 576** include upper ends **562a, 564a, 566a, 568a, 570a, 572a, 574a and 576a**. The upper ends **562a** to **576a** of the paired prong members **562** to **576** are used for engaging and securing gemstones or diamonds **422** and **424** within gem seating areas **444A** and **444B**, respectively. The upper ends **562a** and **564a**, and **566a** and **568a** are paired prong members **562** and **564**, and **566** and **568**, respectively, and are used for engaging the curved outer wall **422b** of gemstone or diamond **422** at equidistant points **422p** and **422q** along the curved outer wall **422b**. Further, the upper ends **570a** and **572a**, and **574a** and **576a** of paired prong members **570** and **572**, and **574** and **576**, respectively, are also used for engaging the curved outer wall **424b** of gemstone or diamond **424** at equidistant points **424p** and **424q** along the curved outer wall **424b**. Thereby, both gemstones or diamonds **422** and **424** are secured within respective seating areas **444A** and **444B**, respectively, of the multi-stone oval setting **500** of the present invention.

[0086] The curved paired prong members **562** and **576** also include lower ends **562b** and **564b, 566b and 568b, 570b, 572b, and 574b** and **576b** being attached and connected to the four (4) curved side rail members **472, 474, 476, and 478**, respectively of the lower frame assembly **470**, in order to form the bottom gallery **480**. In all other respects, this fifth embodiment **500** is exactly the same as the fourth embodiment **400** of the multi-stone oval setting of the present invention.

SIXTH EMBODIMENT 600

[0087] The multi-stone oval setting **600** and its component parts of the sixth embodiment of the present invention are represented in detail by **FIGS. 27 and 28** of the drawings. The sixth embodiment **600** is exactly the same as the multi-stone oval setting **400** of the fourth embodiment except that the end cap holding assembly **660** includes a first end cap holding member **662** having a pair of vertical legs **664** and **666** attached thereto, and a second end cap holding member **668** having a pair of vertical legs **670** and **672** attached thereto. Each end cap holding member **662** and **668** is used for engaging the curved outer walls **422b** and **424b** of gemstones or diamonds **422** and **424** at the apex mid-points **422x** and **424x** along the curved outer walls **422b** and **424b**, respectively. The first and second end cap holding members **662** and **668** of the end cap holding assembly **660** secures each of the gemstones or diamonds **422** and **424** within each of the gem seating areas **444A** and **444B**, respectively, for forming the two (2) stone oval jewelry

arrangement **420** of the multi-stone oval setting **600** of the present invention. Further, each of the lower ends **664b**, **666b**, **670b** and **672b** of the vertical legs **664**, **666**, **670** and **672** are connected to the four (4) curved side rail members **472** to **478**, respectively, to form the bottom gallery **480**. In all other respects, this sixth embodiment **600** is exactly the same as the fourth embodiment **400** of the multi-stone oval setting of the present invention.

OPERATION OF THE PRESENT INVENTION

[0088] The operation of the multi-stone oval settings **10**, **200** and **300** of the first, second and third embodiments of the present invention, as shown in **FIGS. 1, 3, 7A, 7B, 8, 12** and **14** of the patent drawings, starts with the jeweler mounting one of the frame members **42** to a jewelry vise (not shown) for the convenient assembly of each of the gemstones or diamonds **22**, **24**, **26**, **28**, **30** and **32** within the seating areas **72S**, **73S**, **74S**, **75S**, **76S** and **77S** of rows **R1**, **R2** and **R3**, respectively, of multi-stone oval settings **10**, **200** and **300** by the jeweler. The jeweler's initial steps are to slidably mount the inner row of the rectangular-shaped gemstones or diamonds **26** and **28** within seating areas **74S** and **75S**, respectively, wherein the grooved slots **26j** and **28j** in gemstones or diamonds **26** and **28** nestably engage the second retaining insert edge member **57** of the first crossbar member **50** for nesting and seating of side walls **26a** and **28a** of gemstones or diamonds **26** and **28** on the first crossbar member **50**, respectively, as depicted in **FIGS. 3, 7A** and **7B** of the drawings. Concurrently, the grooved slots **26k** and **28k** in gemstones or diamonds **26** and **28** also nestably engage the second retaining insert edge member **67** of the second crossbar member **60** for nesting and seating of side walls **26b** and **28b** of gemstones or diamonds **26** and **28** on the second crossbar member **60**, as depicted in **FIGS. 7A** and **7B** of the drawings.

[0089] The jeweler's next steps are to slidably set the grooved slots **22d** and **24d** in gemstones or diamonds **22** and **24**, respectively, onto the first retaining insert edge member **55** of the first crossbar member **50**, as depicted in **FIGS. 3** and **7A** of the drawings, for nesting and seating of the first outer row **R1** of triangular-shaped gemstones **22** and **24** on the first crossbar member **50** within the seating areas **72S** and **73S**, respectively. Then the jeweler slightly bends the upper ends **82a** and **84a** of prong members **82** and **84** inwardly to engage and contact the mid-points **22m** and **24m** on the outer curved walls **22c** and **24c** of gemstones or diamonds **22** and **24**, respectively, in which to hold gemstones or diamonds **22** and **24** in place and in a secure fashion.

[0090] The jeweler again repeats the aforementioned steps for gemstones or diamonds **30** and **32** by slidably setting the grooved slots **30d** and **32d** in gemstones or diamonds **30** and **32** respectively, onto the first retaining insert edge member **65** of the second crossbar member **60**, as depicted in **FIGS. 3** and **7B** of the drawings, for nesting and seating of the second outer row of triangular-shaped gemstones or diamonds **30** and **32** on the second crossbar member **60** within the second outer row **R3** of seating areas **76S** and **77S**, respectively. Then the jeweler slightly bends the upper ends **86a** and **88a** of prong members **86** and **88** inwardly to engage and contact the mid-points **30m** and **32m** on the outer curved walls **30c** and **32c** of gemstones or diamonds **30** and **32** respectively, in which to hold gemstones or diamonds **30** and **32** in place and in a secure fashion.

[0091] The jeweler's final step is to attach the second end **114** of the setting connecting bar member **110** to a jewelry holding member **18** in forming a ring member **12** or other jewelry products, such as a pendant **14**, as shown in **FIGS. 9** and **10** of the drawings.

[0092] In nesting and seating gemstones and diamonds **22**, **24**, **30** and **32** for embodiments **200** and **300**, the jeweler will operate in a similar fashion as depicted in the first embodiment, such that the paired prong members **242** to **256** and the end cap holding members **342** and **348** are slightly bent inwardly to contact gemstones or diamonds **22**, **24**, **30** and **32** in which to securely hold them in place within the seating areas **72S**, **73S**, **76S** and **77S** of the first and second outer rows **R1** and **R3** of oval settings **200** and **300**, respectively.

[0093] The operation of the multi-stone oval settings **400**, **500** and **600** of the fourth, fifth and sixth embodiments of the present invention, as shown in **FIGS. 15, 17, 22, 26** and **28** of the patent drawings, starts with the jeweler mounting one of the frame members **432** to a jewelry vise (not shown) for the convenient assembly of each of the gemstones or diamonds **422** and **424** within the first and second seating areas **444A** and **444B**, respectively, of multi-stone oval settings **400**, **500** and **600** by the jeweler. The jeweler's initial steps are to slidably mount the first semi-circular shaped gemstone or diamond **422** within the first seating area **444A**, wherein the grooved slot **422e** in gemstone or diamond **422** nestably engages the first retaining insert edge member **448** of the center crossbar member **440** for nesting and seating of side wall **422a** of gemstone or diamond **422** on the center crossbar member **440**, as depicted in **FIGS. 15** and **17** of the drawings.

[0094] Concurrently, the grooved slot **424e** in gemstone or diamond **424** also nestably engages the second retaining insert edge member **452** of the center crossbar member **440** for nesting and seating of side wall **424a** of gemstone or diamond **424** on the center crossbar member **440**, as shown in **FIGS. 15** and **17** of the drawings.

[0095] The jeweler's next steps are securing each of the gemstones or diamonds **422** and **424** within each of the first and second seating areas **444A** and **444B**, respectively. The jeweler now slightly bends the upper ends **462a** and **464a** of the curved prong members **462** and **464** inwardly to engage and contact the gem contact points **422p** and **424q** on the outer curved wall **422b** of gemstone or diamond **422**, respectively, in which to hold gemstone or diamond **422** in place and in a secure fashion.

[0096] The jeweler again repeats the aforementioned step of securing gemstone **424** within seating area **444B**. The jeweler now slightly bends the upper ends **466a** and **468a** of the curved prong members **466** and **468** inwardly to engage and contact the gem contact points **424p** and **424q** on the outer curved wall **424b** of gemstone or diamond **424**, respectively, in which to hold gemstone or diamond **424** in place and in a secure fashion.

[0097] The jeweler's final step is to attach the second end **494** of the setting connecting bar member **490** to a jewelry holding member **18** in forming a ring member **12** or other jewelry products, such as a pendant **14**, as shown in **FIGS. 23** and **24** of the drawings.

[0098] In nesting and seating gemstones or diamonds **422** and **424** for embodiments **500** and **600**, the jeweler will

operate in a similar fashion as depicted in the fourth embodiment, such that the paired prong members **562** to **576** and the end cap holding members **662** and **668** are slightly bent in an inwardly fashion to contact gemstones or diamonds **422** and **424** in which to securely hold them in place within the first and second seating areas **444A** and **444B** of oval settings **500** and **600**, respectively.

ADVANTAGES OF THE PRESENT INVENTION

[0099] Accordingly, an advantage of the present invention is that it provides for a multi-stone setting member for holding therein six or two partially rounded princess-cut gemstones in which the combined aggregate of the six or two gemstones gives a larger appearance than that of a single oval gemstone of a similar carat weight (i.e., a 1.2 carat presentation of the combined six or two gemstones appears as large as a 2.0 carat oval gemstone, as the present invention would have a larger table).

[0100] Another advantage of the present invention is that it provides for a multi-stone setting member having six or two gemstones therein that is less expensive than a single oval gemstone of a similar carat weight (i.e., the 1.2 carat presentation of the combined six or two gemstones is less expensive than an actual 1.2 carat single oval gemstone of the same carat weight).

[0101] Another advantage of the present invention is that it provides for a multi-stone setting member having six or two partially rounded princess-cut gemstones therein which gives the appearance that the setting is substantially invisible at distances greater than 12 inches from the jewelry product.

[0102] Another advantage of the present invention is that it provides for a multi-stone setting member than can be varied in size depending upon the total combined carat weight of the six or two gemstones within the setting member.

[0103] Another advantage of the present invention is that it provides for a multi-stone setting member that can be made from precious metals such as gold, silver, platinum or palladium for setting precious gemstones including diamonds, rubies, sapphires, emeralds and the like.

[0104] Another advantage of the present invention is that it provides for a multi-stone setting member that can be attached to a jewelry ring by a plurality of positioning pins integrally connected to the member housing.

[0105] Another advantage of the present invention is that it provides for a multi-stone setting member having six or two gemstones therein for use in personal adornment in the form of ornamental jewelry such as rings.

[0106] A further advantage of the present invention is that it provides for a multi-stone setting member having six or two gemstones therein that can be produced in an economical manner and is readily affordable by the jewelry consumer.

[0107] A latitude of modification, change, and substitution is intended in the foregoing disclosure, and in some instances, some features of the invention will be employed without a corresponding use of other features. Accordingly, it is appropriate that the appended claims be construed broadly and in a manner consistent with the spirit and scope of the invention herein.

What is claimed is:

1. A multi-stone oval setting for receiving four substantially triangular-shaped gemstones or diamonds and two substantially rectangular-shaped gemstones or diamonds in said setting, comprising:

- a) a prong assembly having four prong members;
- b) one or more curved side rail member connected to said four prong members to form an oval-shaped setting;
- c) said oval-shaped setting having a first crossbar member with first and second insert means formed therein and extending in a first direction; and having a second crossbar member with third and fourth insert means formed therein and being parallel to said first crossbar and also extending in said first direction; and having a third crossbar member being perpendicular to said first and second crossbar members and extending in a second direction;
- d) said first and second crossbar members each being connected at their respective ends thereof to two opposed side rail members of said curved side rail members and said third crossbar member being connected at its respective ends thereof to the other two opposed side rail members of said curved side rail members for forming six seating areas;
- e) each of said six seating areas for receiving therein each of said six gemstones or diamonds within each of said six seating areas; said six seating areas defining two outer rows of gemstones or diamonds and an inner row of gemstones or diamonds;
- f) said four triangular-shaped gemstones or diamonds each having two side walls and a curved outer wall and three corners, respectively;
- g) said two rectangular-shaped gemstones or diamonds each having three side walls and a curved outer wall and four corners, respectively;
- h) each of said four triangular-shaped gemstones or diamonds having at least one of said side walls formed with a groove therein for engaging said first or fourth insert means of said first and second crossbar members for seating two of said four triangular-shaped gemstones or diamonds in each of said two outer rows and for supporting said four triangular-shaped gemstones or diamonds in said outer rows of said oval-shaped setting;
- i) each of said two rectangular-shaped gemstones or diamonds having two parallel side walls of said side walls formed with a groove therein for engaging said second or third insert means of said first and second crossbar members for seating said two rectangular-shaped gemstones or diamonds in said inner row and for supporting said two rectangular-shaped gemstones or diamonds in said inner row of said oval-shaped setting; and
- j) each of said four prong members for engaging said gemstones or diamonds to keep said four gemstones or diamonds seated within each of said four seating areas of said outer rows of said oval-shaped setting.

2. A multi-stone oval setting in accordance with claim 1, wherein each of said four prong members engage said

curved outer walls of each of said gemstones or diamonds within each of said two outer rows in order to keep said four gemstones or diamonds seated within said four seating areas of said two outer rows of said multi-stone oval setting.

3. A multi-stone oval setting in accordance with claim 2, wherein each of said four prong members engage each of said gemstones or diamonds at a mid-point along said curved outer walls for keeping said four gemstones or diamonds seated within said four seating areas of said outer rows of said multi-stone oval setting.

4. A multi-stone oval setting in accordance with claim 1, wherein each of said two outer rows of said four seating areas each have a triangular-shape for receiving each of said triangular-shaped gemstones or diamonds therein.

5. A multi-stone oval setting in accordance with claim 1, wherein said first, second, third and fourth insert means include first, second, third and fourth retaining insert edge members, respectively.

6. A multi-stone oval setting in accordance with claim 1, wherein said curved outer wall of said triangular-shaped gemstone or diamond includes an elliptical arc angle α (α) in the range of 50° to 80° with a preferred elliptical arc angle α (α) of 65° .

7. A multi-stone oval setting in accordance with claim 1, wherein said curved outer wall of said rectangular-shaped gemstone or diamond includes an elliptical arc angle β (β) in the range of 30° to 50° with a preferred elliptical arc angle β (β) of 40° .

8. A multi-stone oval setting in accordance with claim 1, wherein said prong assembly includes a lower support frame having one or more curved side frame members connected to said four prong members to form a bottom gallery.

9. A multi-stone oval setting in accordance with claim 8, wherein said bottom gallery includes a bottom gallery crossbar member.

10. A multi-stone oval setting in accordance with claim 9, wherein said bottom gallery cross member is integrally attached to a connecting bar member for attachment to a jewelry holding member for forming a piece of jewelry.

11. A multi-stone oval setting in accordance with claim 10, wherein said connecting bar member is attached to a jewelry holding member to form a ring, a pin, a brooch, a pendant, a clasp, a necklace, a bracelet, an anklet or earrings.

12. A multi-stone oval setting in accordance with claim 1, wherein said multi-stone oval setting is made from gold, silver, platinum, palladium, or other precious metals.

13. A multi-stone oval setting in accordance with claim 1, wherein said multi-stone oval setting is made into different size settings based upon the weight of the six gemstones or diamonds, said total weight being in the range of 0.36 to 4.0 carats.

14. A multi-stone oval setting for receiving four substantially triangular-shaped gemstones or diamonds and two substantially rectangular-shaped gemstones or diamonds in said setting, comprising:

- a) a prong assembly having four pairs of prong members;
- b) one or more curved side rail member connected to said four pairs of prong members to form an oval-shaped setting;
- c) said oval-shaped setting having a first crossbar member with first and second insert means formed therein and extending in a first direction; and having a second crossbar member with third and fourth insert means

formed therein and being parallel to said first crossbar and also extending in said first direction; and having a third crossbar member being perpendicular to said first and second crossbar members and extending in a second direction;

- d) said first and second crossbar members each being connected at their respective ends thereof to two opposed side rail members of said curved side rail members and said third crossbar member being connected at its respective ends thereof to the other two opposed side rail members of said curved side rail members for forming six seating areas;
 - e) each of said six seating areas for receiving therein each of said six gemstones or diamonds within each of said six seating areas; said six seating areas defining two outer rows of gemstones or diamonds and an inner row of gemstones or diamonds;
 - f) said four triangular-shaped gemstones or diamonds each having two side walls and a curved outer wall and three corners, respectively;
 - g) said two rectangular-shaped gemstones or diamonds each having three side walls and a curved outer wall and four corners, respectively;
 - h) each of said four triangular-shaped gemstones or diamonds having at least one of said side walls formed with a groove therein for engaging said first or fourth insert means of said first and second crossbar members for seating two of said four triangular-shaped gemstones or diamonds in each of said two outer rows and for supporting said four triangular-shaped gemstones or diamonds in said outer rows of said oval-shaped setting;
 - i) each of said two rectangular-shaped gemstones or diamonds having two parallel side walls of said side walls formed with a groove therein for engaging said second or third insert means of said first and second crossbar members for seating said two rectangular-shaped gemstones or diamonds in said inner row and for supporting said two rectangular-shaped gemstones or diamonds in said inner row of said oval-shaped setting; and
 - j) each of said four pairs of prong members for engaging said gemstones or diamonds to keep said four gemstones or diamonds seated within each of said four seating areas of said outer rows of said oval-shaped setting.
15. A multi-stone oval setting in accordance with claim 14, wherein each of said four pairs of prong members engage said curved outer walls of each of said gemstones or diamonds within each of said two outer rows in order to keep said four gemstones or diamonds seated within said four seating areas of said two outer rows of said multi-stone oval setting.
16. a multi-stone oval setting in accordance with claim 15, wherein each of said four pairs of prong members engage each of said gemstones or diamonds at a mid-point along said curved outer walls for keeping said four gemstones or diamonds seated within said four seating areas of said outer rows of said multi-stone oval setting.
17. A multi-stone oval setting in accordance with claim 14, wherein each of said two outer rows of said four seating

areas each have a triangular-shape for receiving each of said triangular-shaped gemstones or diamonds therein.

18. A multi-stone oval setting in accordance with claim 14, wherein said first, second, third and fourth insert means include first, second, third and fourth retaining insert edge members, respectively.

19. A multi-stone oval setting in accordance with claim 14, wherein said curved outer wall of said triangular-shaped gemstone or diamond includes an elliptical arc angle alpha (α) in the range of 50° to 80° with a preferred elliptical arc angle alpha (α) of 65° .

20. A multi-stone oval setting in accordance with claim 14, wherein said curved outer wall of said rectangular-shaped gemstone or diamond includes an elliptical arc angle beta (β) in the range of 30° to 50° with a preferred elliptical arc angle beta (β) of 40° .

21. A multi-stone oval setting in accordance with claim 14, wherein said prong assembly includes a lower support frame having one or more curved side frame members connected to said four pairs of prong members to form a bottom gallery.

22. A multi-stone oval setting in accordance with claim 21, wherein said bottom gallery includes a bottom gallery crossbar member.

23. A multi-stone oval setting in accordance with claim 22, wherein said bottom gallery cross member is integrally attached to a connecting bar member for attachment to a jewelry holding member for forming a piece of jewelry.

24. A multi-stone oval setting in accordance with claim 23, wherein said connecting bar member is attached to a jewelry holding member to form a ring, a pin, a brooch, a pendant, a clasp, a necklace, a bracelet, an anklet or earrings.

25. A multi-stone oval setting in accordance with claim 14, wherein said multi-stone round setting is made from gold, silver, platinum, palladium, or other precious metals.

26. A multi-stone oval setting in accordance with claim 14, wherein said multi-stone round setting is made into different size settings based upon the weight of the six gemstones or diamonds, said total weight being in the range of 0.36 to 4.0 carats.

27. A multi-stone oval setting for receiving four substantially triangular-shaped gemstones or diamonds and two substantially rectangular-shaped gemstones or diamonds in said setting, comprising:

- a) an end cap holding assembly having two end cap holding members;
- b) one or more curved side rail members connected to said two end cap holding members to form an oval-shaped setting;
- c) said oval-shaped setting having a first crossbar member with first and second insert means formed therein and extending in a first direction; and having a second crossbar member with third and fourth insert means formed therein and being parallel to said first crossbar and also extending in said first direction; and having a third crossbar member being perpendicular to said first and second crossbar members and extending in a second direction;
- d) said first and second crossbar members each being connected at their respective ends thereof to two opposed side rail members of said curved side rail members and said third crossbar member being con-

nected at its respective ends thereof to the outer two opposed side rail members of said curved side rail members for forming six seating areas;

- e) each of said six seating areas for receiving therein each of said six gemstones or diamonds within each of said six seating areas; said six seating areas defining two outer rows of gemstones or diamonds and an inner row of gemstones or diamonds;
- f) said four triangular-shaped gemstones or diamonds each having two side walls and a curved outer wall and three corners, respectively;
- g) said two rectangular-shaped gemstones or diamonds each having three side walls and a curved outer wall and four corners respectively;
- h) each of said four triangular-shaped gemstones or diamonds having at least one of said side walls formed with a groove therein for engaging said first or fourth insert means of said first and second crossbar members for seating two of said four triangular-shaped gemstones or diamonds in each of said two outer rows and for supporting said four triangular-shaped gemstones or diamonds in said outer rows and for supporting said four triangular-shaped gemstones or diamonds in said outer rows of said oval-shaped setting;
- i) each of said two rectangular-shaped gemstones or diamonds having two parallel side walls of said side walls formed with a groove therein for engaging said second or third insert means of said first and second crossbar members for seating said two rectangular-shaped gemstones or diamonds in said inner row and for supporting said two rectangular-shaped gemstones or diamonds in said inner row of said oval-shaped setting; and
- j) each of said two end cap holding members for engaging said gemstones or diamonds to keep said four gemstones or diamonds seated within each of said four seating areas of said outer rows of said oval-shaped setting.

28. A multi-stone oval setting in accordance with claim 27, wherein each of said two end cap holding members engage said curved outer walls of each of said gemstones or diamonds within each of said two outer rows in order to keep said four gemstones or diamonds seated within said four seating areas of said two outer rows of said multi-stone oval setting.

29. A multi-stone oval setting in accordance with claim 28, wherein each of said two end cap members engage each of said gemstones or diamonds at a mid-point along said curved outer walls for keeping said four gemstones or diamonds seated within said four seating areas of said outer rows of said multi-stone oval setting.

30. A multi-stone oval setting in accordance with claim 28, wherein each of said two outer rows of said four seating areas each have a triangular-shape for receiving each of said triangular-shaped gemstones or diamonds therein.

31. A multi-stone oval setting in accordance with claim 27, wherein said first, second, third and fourth insert means include first, second, third and fourth retaining insert edge members, respectively.

32. A multi-stone oval setting in accordance with claim 27, wherein said curved outer wall of said triangular-shaped

gemstone or diamond includes an elliptical arc angle α in the range of 50° to 80° with a preferred elliptical arc angle α of 65° .

33. A multi-stone oval setting in accordance with claim 27, wherein said curved outer wall of said rectangular-shaped gemstone or diamond includes an elliptical arc angle β in the range of 30° to 50° with a preferred elliptical arc angle β of 40° .

34. A multi-stone oval setting in accordance with claim 27, wherein said prong assembly includes a lower support frame having one or more curved side frame members connected to said four prong members to form a bottom gallery.

35. A multi-stone oval setting in accordance with claim 34, wherein said bottom gallery includes a bottom gallery crossbar member.

36. A multi-stone oval setting in accordance with claim 35, wherein said bottom gallery cross member is integrally attached to a connecting bar member for attachment to a jewelry holding member for forming a piece of jewelry.

37. A multi-stone oval setting in accordance with claim 36, wherein said connecting bar member is attached to a jewelry holding member to form a ring, a pin, a brooch, a pendant, a clasp, a necklace, a bracelet, an anklet or earrings.

38. A multi-stone oval setting in accordance with claim 27, wherein said multi-stone round setting is made from gold, silver, platinum, palladium, or other precious metals.

39. A multi-stone oval setting in accordance with claim 27, wherein said multi-stone round setting is made into different size settings based upon the weight of the six gemstones or diamonds, said total weight being in the range of 0.36 to 4.0 carats.

40. A multi-stone oval setting for receiving two substantially semi-circular shaped gemstones or diamonds in said setting, comprising:

- a) a prong assembly having four pairs of prong members;
- b) one or more curved side rail members connected to said four prong members to form an oval-shaped setting;
- c) a center crossbar member connected at the ends thereof to said curved side rail members for forming two seating areas; said crossbar member having first and second insert means;
- d) said two seating areas each for receiving one of said two gemstones or diamonds;
- e) said two semi-circular shaped gemstones or diamonds each having one side wall and a curved outer wall and two corners, respectively;
- f) each of said two semi-circular shaped gemstones or diamonds having said side wall with a groove formed therein for engaging said first or second insert means of said center crossbar member for seating each of said semi-circular shaped gemstones or diamonds within each of said two seating areas and for supporting said two gemstones or diamonds in said two seating areas; and
- g) each of said four prong members for engaging said two gemstones or diamonds to keep said two gemstones or diamonds seated within said two seating areas of said multi-stone oval setting.

41. A multi-stone oval setting in accordance with claim 40, wherein each of said four prong members engage said

curved outer walls of each of said gemstones or diamonds to keep said two gemstones or diamonds seated within said two seating areas of said multi-stone oval setting.

42. A multi-stone oval setting in accordance with claim 41, wherein each of said four prong members engage each of said gemstones or diamonds at a mid-point along said curved outer wall for keeping said four gemstones or diamonds seated within said two seating areas of said multi-stone oval setting.

43. A multi-stone oval setting in accordance with claim 40, wherein each of said two seating areas each have a semi-circular shape for receiving two of said semi-circular shaped gemstones or diamonds therein.

44. A multi-stone oval setting in accordance with claim 40, wherein said first and second insert means include first and second retaining insert edge members.

45. A multi-stone oval setting in accordance with claim 40, wherein said curved outer wall of said semi-circular shaped gemstone or diamond includes an elliptical arc angle γ in the range of 175° to 185° with a preferred elliptical arc angle γ of 180° .

46. A multi-stone oval setting in accordance with claim 40, wherein said prong assembly includes a lower support frame having one or more curved side frame members connected to said four prong members to form a bottom gallery.

47. A multi-stone oval setting in accordance with claim 46, wherein said bottom gallery includes a bottom gallery crossbar member.

48. A multi-stone oval setting in accordance with claim 47, wherein said bottom gallery cross member is integrally attached to a connecting bar member for attachment to a jewelry holding member for forming a piece of jewelry.

49. 12. A multi-stone round setting in accordance with claim 48, wherein said connecting bar member is attached to a jewelry holding member to form a ring, a pin, a brooch, a pendant, a clasp, a necklace, a bracelet, an anklet or earrings.

50. A multi-stone oval setting in accordance with claim 40, wherein said multi-stone round setting is made from gold, silver, platinum, palladium, or other precious metals.

51. A multi-stone oval setting in accordance with claim 40, wherein said multi-stone round setting is made into different size settings based upon the weight of the two gemstones or diamonds, said total weight being in the range of 0.36 to 4.0 carats.

52. A multi-stone oval setting for receiving two substantially semi-circular shaped gemstones or diamonds in said setting, comprising:

- a) a prong assembly having four pairs of prong members;
- b) one or more curved side rail members connected to said four pairs of prong members to form an oval-shaped setting;
- c) a center crossbar member connected at the ends thereof to said curved side rail members for forming two seating areas; said crossbar member having first and second insert means;
- d) said two seating areas each for receiving said two gemstones or diamonds;
- e) said two semi-circular shaped gemstones or diamonds each having one side wall and a curved outerwall and three corners, respectively;

f) each of said two semi-circular shaped gemstones or diamonds having said side wall with a groove formed therein for engaging said first or second insert means of said center crossbar member for seating each of said semi-circular shaped gemstones or diamonds within each of said two seating areas and for supporting said four gemstones or diamonds in said two seating areas; and

g) each of said four pairs of prong members for engaging said two gemstones or diamonds to keep said two gemstones or diamonds seated within said two seating areas of said multi-stone oval setting.

53. A multi-stone oval setting in accordance with claim 52, wherein each of said four pairs of prong members engage said curved outer walls of each of said gemstones or diamonds to keep said two gemstone or diamonds seated within said two seating areas of said multi-stone oval setting.

54. A multi-stone oval setting in accordance with claim 53, wherein each of said four pairs of prong members engage each of said gemstones or diamonds at a mid-point along said curved outer wall for keeping said two gemstones or diamonds seated within said two seating areas of said multi-stone oval setting.

55. A multi-stone oval setting in accordance with claim 52, wherein each of said two seating areas each have a semi-circular shape for receiving each of said semi-circular shaped gemstones or diamonds therein.

56. A multi-stone oval setting in accordance with claim 52, wherein said first and second insert means include first and second retaining insert edge members.

57. A multi-stone oval setting in accordance with claim 52, wherein said curved outer wall of said semi-circular shaped gemstone or diamond includes an elliptical arc angle gamma (γ) in the range of 175° to 185° with a preferred elliptical arc angle gamma (γ) of 180°.

58. A multi-stone oval setting in accordance with claim 52, wherein said prong assembly includes a lower support frame having one or more curved side frame members connected to said four prong members to form a bottom gallery.

59. A multi-stone oval setting in accordance with claim 58, wherein said bottom gallery includes a bottom gallery crossbar member.

60. A multi-stone oval setting in accordance with claim 59, wherein said bottom gallery cross member is integrally attached to a connecting bar member for attachment to a jewelry holding member for forming a piece of jewelry.

61. A multi-stone oval setting in accordance with claim 60, wherein said connecting bar member is attached to a jewelry holding member to form a ring, a pin, a brooch, a pendant, a clasp, a necklace, a bracelet, an anklet or earrings.

62. A multi-stone oval setting in accordance with claim 52, wherein said multi-stone round setting is made from gold, silver, platinum, palladium, or other precious metals.

63. A multi-stone oval setting in accordance with claim 52, wherein said multi-stone round setting is made into different size settings based upon the weight of the two gemstones or diamonds, said total weight being in the range of 0.36 to 4.0 carats.

64. A multi-stone oval setting for receiving two substantially semi-circular shaped gemstones or diamonds in said setting, comprising:

a) an end cap holding assembly having two end cap holding members;

b) one or more curved side rail members connected to said two end cap holding members to form an oval-shaped setting;

c) a center crossbar member connected at the ends thereof to said curved side rail members for forming two seating areas; said crossbar member having first and second insert means;

d) said two seating areas each for receiving one of said two gemstones or diamonds;

e) said two semi-circular shaped gemstones or diamonds each having one side wall and a curved outerwall and two comers, respectively;

f) each of said two semi-circular shaped gemstones or diamonds having said side wall with a groove formed therein for engaging said first or second insert means of said center crossbar member for seating each of said semi-circular shaped gemstones or diamonds within each of said two seating areas and for supporting said two gemstones or diamonds in said two seating areas; and

g) each of said two end cap holding members for engaging said two gemstones or diamonds to keep said two gemstones or diamonds seated within said two seating areas of said multi-stone oval setting.

65. A multi-stone oval setting in accordance with claim 57, wherein each of said two end cap holding members engage two adjacent corners of two adjacent gemstones or diamonds to keep said two gemstones or diamonds seated within each of said two seating areas of said multi-stone oval setting.

66. A multi-stone oval setting in accordance with claim 43, wherein each of said two seating areas each have a semi-circular shape for receiving two of said semi-circular shaped gemstones or diamonds therein.

67. A multi-stone oval setting in accordance with claim 43, wherein said first and second insert means include first and second retaining insert edge members.

68. A multi-stone oval setting in accordance with claim 64, wherein said curved outer wall of said semi-circular shaped gemstone or diamond includes an elliptical arc angle gamma (γ) in the range of 175° to 185° with a preferred elliptical arc angle gamma (γ) of 180°.

69. A multi-stone oval setting in accordance with claim 43, wherein said prong assembly includes a lower support frame having one or more curved side frame members connected to said four prong members to form a bottom gallery.

70. A multi-stone oval setting in accordance with claim 69, wherein said bottom gallery includes a bottom gallery crossbar member.

71. A multi-stone oval setting in accordance with claim 70, wherein said bottom gallery cross member is integrally attached to a connecting bar member for attachment to a jewelry holding member for forming a piece of jewelry.

72. A multi-stone oval setting in accordance with claim 71, wherein said connecting bar member is attached to a jewelry holding member to form a ring, a pin, a brooch, a pendant, a clasp, a necklace, a bracelet, an anklet or earrings.

73. A multi-stone oval setting in accordance with claim 64, wherein said multi-stone round setting is made from gold, silver, platinum, palladium, or other precious metals.

74. A multi-stone oval setting in accordance with claim 64, wherein said multi-stone round setting is made into different size settings based upon the weight of the two gemstones or diamonds, said total weight being in the range 0.36 to 4.0 carats.

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