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DISPLAY SYSTEM

Abstract

A display includes a riser safe and a cap where articles, such as jewelry elements and their holders, can be placed on the cap and secured in the riser safe. The riser safe has a housing and a door can secure the cap and the articles therein. The riser safe defines slots that the cap can slide in and out of to be secured in the riser safe.

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Background/Summary

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FIELD OF INVENTION

[0002] The present invention relates to a display and method of displaying an article via the display. The display includes a riser and a cap where, for instance, jewelry elements and their holders can be placed. In an alternative embodiment, the display further includes a drawer. In a further embodiment, the display further includes removable light fixtures having light emitting diodes. The display further provides a storage space for storing articles related to the display. Although the display of the present invention is described as a jewelry display, the system can readily be used to display any other article.

BACKGROUND

[0003] Conventional jewelry displays are bulky and take up valuable space in the vault. The displays come in different sizes and configurations. There are single piece displays and trays to hold a dozen or more pieces. There are larger pieces to hold a necklace, and ramps to hold 20-30 chains. Every morning, a jeweler with a safe/vault retrieves the jewelry from the safe/vault and individually places them into a conventional jewelry box or onto a conventional display. Then every evening the jeweler must collect the jewelry from the boxes, or display elements, and return the jewelry to the safe/vault. Jewelers with larger vaults collect the display elements or boxes every evening, place them in plastic tubs, then place the plastic tubs into the vault, this way avoiding the need to take the jewelry off each individual display or out of each box. In the morning, the jeweler then retrieves the plastic tubs and individually places the displays elements or boxes back into the showcase. This process is time consuming. Therefore, there is a need for a jewelry display that provides a platform that can hold jewelry and can be readily removed along with the jewelry to be placed in the vault.

SUMMARY

[0004] The display elements used with the present invention all have magnets in their bases. They adhere to the cap platforms, which decreases the chance of display elements falling off the cap platforms when being put in or retrieved from the safe/vault. The cap platforms, being a thin sheet of wood ($\frac{1}{2}$ " or thinner), take up minimal safe/vault space, allow a jeweler to transport $\frac{1}{3}$ sup.rd of a showcase at a time safely with the magnetized displays adhered to the platform caps. In some embodiments, the cap platforms can be made of other suitable materials, including, for example, plastic, aluminum, steel or a combination thereof.

[0005] Two main issues which concern a typical jeweler are addressed. The present invention makes it much easier and quicker to open and close the store. All jewelry needs to be carried to and from their safe or vault each morning and each evening. The display of the present invention has risers with removable caps that have all the elements magnified to them, make this task much easier and quicker. They open a showcase, remove 3 top caps, and they're done. Working with conventional displays, a jeweler would have to open their showcase, then take each element out of the case, put it in a plastic tub, stacking them on top of each other often leading to damage, then carry the plastic tub to the vault or safe. Then in the morning, the jeweler would have to take the plastic tub out of the safe, back to the case, and reset each piece up one by one by one. With the present invention, they only carry the caps back from the vault and their displays are set up the exact way they were the day before.

[0006] The other issue of concern is privacy and back strain. Having to reach far into the conventional display system in order to retract a piece of jewelry can expose the private parts of a female sales clerk to the public. Furthermore, such motions are also associated with excessive bending which cause back pain, especially for the older individuals. Moreover, these individuals perform these motions a number of times everyday which makes the task unbearable. The display of the present invention, as will be described fully below, include caps that slide in and out of their associated risers or drawers.

[0007] Historically, low-end jewelers put their jewelry into hinged jewelry boxes, and put those inside the showcase. However, most medium-to-high-end jewelers use jewelry holders (that are separate and different than the jewelry box). A jewelry holder may be a ring tray that holds 1-24 rings, a neck form that holds 1 necklace, a chain ramp that holds 20-25 necklaces, and an earring stand for 1 pair or 12 pairs of earrings. These holders are magnetized at the bottom so as to stick to the sheet metal in cap platform.

[0008] The display of the present invention, as described herein, will be placed inside a showcase to make it easy to reach goods in the front (by the sliding drawer and/or the cap), and to make it easy for jewelers, coin dealers, or any other business that has valuable goods in their showcase set up and close down each night.

[0009] The present invention comprises a riser and a cap. The riser comprises a planar base and a side along a portion of the perimeter of the base. The cap includes a platform and a side along a portion of the perimeter of the platform. This configuration allows the cap to be easily placed on the riser, slid in and out of the riser, and removed from the riser. In one configuration, the cap is made from a composite material, for instance, a layer of wood and a layer of metal on top of the wood layer. As such, jewelry holders with magnets can be magnetically coupled with the cap.

[0010] In an alternative embodiment of the present invention, the display further includes a drawer. In this configuration, the riser includes guides which are coupled with either the side or the base of the riser. The drawer has a planar top and a side along a portion of the perimeter of the top. The drawer further includes guides that are coupled with the side and engage the riser guides to readily slide in and out of the riser. The drawer top further includes one or more strips that are used to securely position the cap onto the drawer top. In some embodiments, the platform cap could be affixed to the drawer top using a series of male/female (opposite polarized) magnets, as shown, for example, in FIGS. 14A through 17C.

[0011] In one aspect, a display is disclosed, wherein the display comprises a riser comprising a riser base having a substantially planar surface, a riser side extending upwardly from at least a portion of a perimeter of the riser base, and a riser guide coupled with at least one of the riser base and the riser side, a drawer comprising a drawer top having a substantially planar surface, a drawer side extending downwardly from at least a portion of a perimeter of the drawer top, a drawer side guide coupled with the drawer side, wherein the drawer side guide is in sliding engagement with the riser guide, and a drawer top guide coupled with the drawer top, and a cap comprising a cap platform having a substantially planar surface, and at least one of a groove in the cap platform and a cap platform guide coupled with the cap platform, wherein the at least one of a groove in the cap platform and a cap platform guide coupled with the cap platform is in at least one of sliding and removable engagement with the drawer top guide.

[0012] Preferably, the riser base is rectangular.

[0013] Preferably, the riser side comprises three beams having rectangular cross sections.

[0014] Preferably, the riser guide comprises two guide rails coupled with two of the three beams along an axial direction of the riser base.

[0015] Preferably, the riser guide comprises two guide rails coupled with the riser base along an axial direction of the riser base.

[0016] Preferably, a height of the three beams is greater than zero, thereby, the display providing a storage space between the drawer and the riser.

[0017] Preferably, the drawer top is rectangular.

[0018] Preferably, the drawer side comprises two beams having rectangular cross sections.

[0019] Preferably, the drawer side guide comprises two guide rails coupled with the two beams along an axial direction of the drawer top.

[0020] Preferably, the drawer top guide comprises two strips coupled with the drawer top along an axial direction of the drawer top.

[0021] Preferably, the drawer further comprises a support beam coupled with the drawer top along a transverse direction of the drawer top.

[0022] Preferably, the drawer further comprises a handle coupled with the drawer top.

[0023] Preferably, the cap platform is rectangular.

[0024] Preferably, the cap platform comprises two grooves along an axial direction of the cap platform.

[0025] Preferably, the cap further comprises one or more magnet coupled with the cap platform along a transverse direction of the cap platform.

[0026] Preferably, the riser base, the riser side, the drawer top, the drawer side, and the cap platform are made from wood.

[0027] Preferably, the drawer top comprises a composite material made from aluminum and sheet metal, and/or a plastic material.

[0028] Preferably, the cap platform comprises a composite material made from aluminum and sheet metal, and/or a plastic material.

[0029] Preferably, the display further comprises a lighting system coupled with the riser.

[0030] Preferably, the lighting system comprises two modular light fixtures, and wherein each of the two modular light fixtures comprises a plurality of light emitting diodes.

[0031] In another aspect, a display is disclosed, wherein the display comprises a riser comprising a riser base having a substantially planar surface, and a riser side extending upwardly from at least a portion of a perimeter of the riser base, and a cap comprising a cap platform having a substantially planar surface and a cap side extending downwardly from at least a portion of a perimeter of the cap platform, wherein the cap side is in at least one of sliding and removable engagement with the riser side.

[0032] Preferably, the riser base is rectangular.

[0033] Preferably, the riser side comprises three beams having rectangular cross sections.

[0034] Preferably, the cap platform is rectangular.

[0035] Preferably, the cap side comprises three L-shaped beams, and wherein two of the three L-shaped beams are coupled with the cap platform along an axial direction of the cap platform and the third L-shaped beam is coupled with the cap platform along a transverse direction of the cap platform.

[0036] Preferably, the cap further comprises a support beam coupled with the cap platform along a transverse direction of the cap platform.

[0037] Preferably, the riser base, the riser side, and the cap platform are made from wood, aluminum, plastic, sheet metal, or the like.

[0038] Preferably, the cap platform comprises a composite material made from aluminum and sheet metal, and/or a plastic material, and/or a wood material.

[0039] In another aspect, a method of displaying an article via a display is disclosed, wherein the display comprises a riser comprising a riser base having a substantially planar surface, a riser side extending upwardly from at least a portion of a perimeter of the riser base, and a riser guide coupled with at least one of the riser base and the riser side, a drawer comprising a drawer top having a substantially planar surface, a drawer side extending downwardly from at least a portion of a perimeter of the drawer top, a drawer side guide coupled with the drawer side, wherein the drawer side guide is in sliding engagement with the riser guide, and a drawer top guide coupled with the drawer top, and a cap comprising a cap platform having a substantially planar surface and

at least one of a groove in the cap platform and a cap platform guide coupled with the cap platform, wherein the at least one of a groove in the cap platform and a cap platform guide coupled with the cap platform is in at least one of sliding and removable engagement with the drawer top guide. In some embodiments, the groove and cap platform guide could be replaced by a series of opposite polarized magnets, as described here within. The method further comprising at least one of placing the cap on the drawer, and sliding the drawer, and removing the cap from the drawer.

[0040] In another aspect, a method of displaying an article via a display is disclosed, wherein the display comprises a riser comprising a riser base having a substantially planar surface and a riser side extending upwardly from at least a portion of a perimeter of the riser base, and a cap comprising a cap platform having a substantially planar surface and a cap side extending downwardly from at least a portion of a perimeter of the cap platform, wherein the cap side is in at least one of sliding and removable engagement with the riser side, the method comprising at least one of placing the cap on the riser, sliding the cap, and removing the cap from the riser.

Description

DESCRIPTION OF THE DRAWINGS

[0041] FIG. 1 shows a perspective view of a display according to a preferred embodiment. The display includes a riser having a rectangular riser base, a riser side that comprises of three beams around a perimeter of the riser base, and two riser guides that are coupled with the riser side along an axial direction of the riser base. The display further comprises a drawer that has a rectangular top and a side that comprises of two beams around a perimeter of the drawer top, and two drawer side guides that are coupled with the drawer side along an axial direction of the drawer top. The display, further includes a cap that has a cap platform, one or more grooves in the cap platform, and/or cap platform guide that is coupled with the cap platform. In some embodiments, the groove and cap platform guide could be replaced by a series of opposite polarized magnets, as described here within.

[0042] FIG. 2 shows a perspective view of a display according to a preferred embodiment. In this embodiment, the riser guide includes two guide rails which are coupled with the riser base.

[0043] FIG. 3 shows an exploded view of the display of FIG. 1. The drawer has a drawer top guide, coupled with the drawer top, which comprises of two strips along an axial direction of the drawer top. The drawer side guide is in sliding engagement with the riser guide. The cap includes two grooves in the cap platform which are in sliding and/or removable engagement with the drawer top guide.

[0044] FIG. 4A shows a bottom perspective view of a drawer according to a preferred embodiment. According to this embodiment, the drawer side guides are coupled with the bottom of two beams which engage a riser guide which includes two guide rails that are coupled with the riser base, such the display shown in FIG. 2. The drawer further includes a support beam along a transverse direction of the drawer top. The support beam resists bending of the drawer top around its axial direction.

[0045] FIG. 4B shows a top perspective view of the drawer of FIG. 4A. The drawer top includes a drawer top guide which comprises of two strips that are positioned symmetrically on each side of the axial axis of the drawer top and coupled with the drawer top. A cap, such as the one shown in FIG. 3, has two grooves in the cap platform which are in sliding and/or removable engagement with the drawer top guide. The drawer top can be made from a composite material consisting of a thick layer of wood and a thin layer of metal which is glued to the top of the wood. Other materials may be used, including plastic, aluminum, or the like.

[0046] FIG. 5A shows a bottom perspective view of a cap according to a preferred embodiment. According to this embodiment, the cap has two grooves that are positioned symmetrically on each

side of the axial axis of the cap platform and are cut in the bottom side of the cap platform. The grooves are in sliding and/or removable engagement with a drawer top guide, such as the one shown in FIG. 3. The cap further includes two magnets that are coupled with the cap platform along a transverse direction of the cap platform.

[0047] FIG. 5B shows a top perspective view of the cap of FIG. 5A. The cap platform is made from a composite material consisting of a thick layer of wood and a thin layer of metal which is glued to the top of the wood. The magnets in the cap platform operate to magnetically couple the cap with the top metallic layer of the drawer top, such as the drawer top of FIG. 4B.

[0048] FIG. 6 shows a perspective view of a display according to a preferred embodiment. In this embodiment, the display further comprises two modular light fixtures, each having a plurality of light emitting diodes.

[0049] FIG. 7 shows a perspective view of a riser according to a preferred embodiment. In this embodiment, a display comprises of a riser and a cap without the use of a drawer. The riser has a riser side that is made up of three beams around a perimeter of the riser base. The cap, such as the one shown in FIGS. 8A and 8B, is in sliding and/or removable engagement with the riser side.

[0050] FIG. 8A shows a top perspective view of a cap according to a preferred embodiment. In this embodiment, a display comprises of a riser, such as the riser shown in FIG. 7, and this cap without the use of a drawer. The cap comprises a cap platform and a cap side which is in sliding and/or removable engagement with the riser side.

[0051] FIG. 8B shows a bottom perspective view of the cap of FIG. 8A. The cap includes a cap side which comprises of three L-shaped beams, wherein two of them are coupled with the cap platform along an axial direction of the cap platform and the third L-shaped beam is coupled with the cap platform along a transverse direction of the cap platform. The cap further includes a support beam along a transverse direction of the cap platform. The support beam resists bending of the cap platform around its axial direction. The L-shaped beams may be formed in other shapes, such as in a thin rectangular shape, a square shape, or the like.

[0052] FIG. 8C shows the interaction between the riser of FIG. 7 and the cap of FIGS. 8A and 8B, where the size of the cap is larger than a riser size, and an outer perimeter edge of the riser is within the outer perimeter edge of the cap.

[0053] FIG. 8D shows the interaction between the riser of FIG. 7 and the cap of FIGS. 8A and 8B, where the size of the cap is the same as a riser size, and an outer perimeter edge of the riser is substantially coplanar with the outer perimeter edge of the cap.

[0054] FIG. 9 is a perspective view of a display assembly, having a riser and a drawer, configured to accept caps of various sizes and shapes.

[0055] FIGS. 10A through 10D illustrate perspective views of caps of various sizes and shapes that are operable to be used with a display assembly, such as the display assembly of FIG. 9.

[0056] FIG. 11 illustrates a perspective view of a display assembly formed from the riser and drawer of FIG. 9 and the cap of FIG. 10A.

[0057] FIG. 12A illustrates a perspective view of the cap of FIG. 10A.

[0058] FIG. 12B illustrates a perspective view of an expanded riser and drawer assembly usable with the cap of FIG. 12A.

[0059] FIG. 12C illustrates a perspective view of the assembled display assembly formed from the cap of FIG. 12A and the riser and drawer of FIG. 12B, where the riser is oversized to match a size and shape of the cap.

[0060] FIG. 13A illustrates a perspective view of a display assembly where the riser guides are formed on a top edge of the riser side beams.

[0061] FIG. 13B illustrates an exploded perspective view of the display assembly of FIG. 13A, with the drawer separated off the riser guides.

[0062] FIG. 14A illustrates a perspective view of a display assembly where the riser is formed from a flat sheet material, with the riser guides affixed thereto for sliding the drawer therealong.

[0063] FIG. **14B** illustrates an exploded perspective view of the display assembly of FIG. **14A**, with the drawer separated off the riser guides.

[0064] FIG. **15A** illustrates a perspective view of a display assembly where the riser is omitted, allowing the riser guides to be affixed directly to a display case frame or a display case floorboard.

[0065] FIG. **15B** illustrates an exploded perspective view of the display assembly of FIG. **15A**, with the drawer separated off the riser guides.

[0066] FIG. **16A** illustrates a perspective view of a display assembly where the riser guides are formed as a hydraulic guide, as an example of an alternative form for the guides.

[0067] FIG. **16B** illustrates an exploded perspective view of the display assembly of FIG. **16A**, with the drawer separated off the riser guides.

[0068] FIG. **17A** illustrates a front perspective view of a riser safe display assembly.

[0069] FIG. **17B** illustrates a rear perspective view of the riser safe display assembly of FIG. **17A**.

[0070] FIG. **17C** illustrates a rear perspective view of the riser safe display assembly of FIG. **17A** with the cap placed inside the safe for storage.

[0071] FIG. **18A** illustrates a front perspective view of a riser safe display assembly without magnets or metal sheets, suitable for use of RFID tagging.

[0072] FIG. **18B** illustrates a rear perspective view of the riser safe display assembly of FIG. **18A**.

[0073] FIG. **18C** illustrates a rear perspective view of the riser safe display assembly of FIG. **18A** with the cap placed inside the safe for storage.

[0074] FIG. **19A** illustrates a rear perspective view of a riser safe display assembly.

[0075] FIG. **19B** illustrates a side perspective view of the riser safe display assembly with the cap removed to show a lift mechanism inside the riser.

[0076] FIG. **19C** illustrates a rear perspective view of the riser safe display assembly with the cap in a lifted configuration.

[0077] FIG. **19D** illustrates a rear perspective view of the riser safe display assembly of FIG. **19A** with the top cover taken from the bottom of the display assembly to cover the top of the riser safe, storing the goods inside the safe with the cap in the lowered configuration.

[0078] FIG. **20** illustrates a base platform riser that is slightly elevated in the back, according to an exemplary embodiment of the present invention.

[0079] FIG. **21A** illustrates a perspective view of a lighting assembly usable with the configurations of the display according to embodiments of the present invention.

[0080] FIG. **21B** illustrates a perspective view of the lighting assembly of FIG. **21A** used with one of the displays.

[0081] FIG. **21C** illustrates a perspective view of multiple ones of the lighting assembly of FIG. **21A**, chained together with a single power connection.

[0082] FIG. **22A** illustrates a perspective view of a platform cap having a cutout for placement of a name plate therein.

[0083] FIG. **22B** illustrates a perspective view of a name plate fitting into the cutout platform cap of FIG. **22A**.

[0084] FIG. **22C** illustrates a perspective view of the name plate fit into the cutout of the platform cap of FIG. **22A**.

[0085] FIG. **22D** illustrates a perspective view of a name plate cutout formed into a partial depth of the platform cap.

DETAILED DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENTS

[0086] FIG. **1** depicts a perspective view of a display **100** according to a preferred embodiment. The display **100** includes a riser **102** having a rectangular riser base **108**, a riser side that comprises of three beams, only two of which **110** and **112** are visible, around a perimeter of the riser base **108**. The riser **102** further includes two riser guides **114** and **116** which are coupled with the riser side, i.e., beam **110** and beam **112**, along an axial direction **132** of the riser base **108**. The display **100** further comprises a drawer **104** that has a rectangular top **130** and a side that comprises of two

beams **120** and **122** around a perimeter of the drawer top **130**, and two drawer side guides **126** and **128** that are coupled with the drawer side, i.e., beam **120** and **122**, along an axial direction of the drawer top **130**, which in this embodiment is the same direction as the axial direction **132** of the riser base **108**.

[0087] The drawer side guides **126** and **128** are in sliding engagement with the two riser guides **114** and **116**. Specifically, the drawer **104** can slide in both directions along the axial direction of drawer top **130**. In one preferred embodiment, the drawer side guides **126** and/or **128** may comprise stops to prevent the drawer **104** from being slid completely out of the riser **102**.

[0088] The drawer **104** further includes a drawer top guide (not visible in this figure, but see FIG. 3) which is coupled with the drawer top **130**. The drawer **104** can further include a support beam (not visible in this figure, but see FIG. 4A) coupled with the drawer top **130** along a transverse direction **134** of the drawer top **130**. The support beam operates to provide resistance to any undesired bending of the drawer top **130**. In some embodiments, the support beam is not necessary, especially when the platform cap is formed from, for example, aluminum and sheet metal materials or plastic.

[0089] The display **100**, further includes a cap **106** that has a cap platform **124** and two grooves (not visible in this figure, but see FIG. 5A) in the cap platform **124**. In an alternative embodiment, the cap **106** comprises a cap platform guide that is coupled with the cap platform **124**. The grooves and/or the cap platform guide is in sliding and/or removable engagement with the drawer top guide. Specifically, the cap **106** can slide in both direction along an axial direction of the cap platform **124**, which in this embodiment is the same direction as the axial direction **132** of the riser base **108**. The cap **106** can also be freely removed from the drawer **104**, i.e., lifted from or placed on the drawer top **130**. The drawer **104** further includes a handle **118** for use in sliding the drawer **104** and the cap **106** in the axial direction **132**. The display **100** has generally a rectangular shape in this preferred embodiment. Specifically, the riser base **108**, the drawer top **130**, and the cap platform **124** are substantially planar and rectangular. However, other geometric shapes, such as a combination of rectangles, squares, circles, ellipses, etc., are contemplated.

[0090] The riser **102** has a side which extends upwardly from at least a portion of the perimeter of the riser base **108**. The riser side is made up of three separate beams, only two of which **110** and **112** are visible. All three beams have a rectangular cross section, although other cross sections such as square, circular, triangular, elliptical, etc., are contemplated. In another embodiment, the riser side is a single piece structure and is coupled with the riser base **108** along three sides of the riser base **108**. The fourth side of the riser base **108** is not coupled with any structure and is left open. The height of the three beams is greater than zero, thereby, providing the display **100** a storage space between the riser **102** and the drawer **104** to store articles related to the display. See, especially, the base riser of the embodiments of FIG. 7 and FIGS. 17A through 19D, for example, which provides a significant storage space, as discussed in greater detail below.

[0091] In this preferred embodiment, the riser side is coupled with the riser base **108** via one or more fasteners, such as bolts, screws, and/or nails. In another embodiment, the riser side may be coupled with the riser base **108** via an adhesive. The riser base **108** and its side can be made from a single material or a composite material. For example, the riser base **108** and the sides can be integrally formed, such as via injection molded plastic. In some embodiments, the riser base **108** and its side, i.e., the three separate beams, only two of which **110** and **112** are visible, are made from wood.

[0092] The riser guides **114** and **116** are coupled with the riser side, i.e., beam **110** and beam **112**, along the axial direction **132** of the riser base **108**. In a preferred embodiment, the riser guides **114** and **116** are guide rails made from aluminum or steel. In another embodiment, the riser guides **114** and **116** are coupled with the riser base **108** (see FIG. 2). Furthermore, in this preferred embodiment, the lengths of the three beams of the riser side cover the entire three sides of the rectangular riser base **108**. In another embodiment, each of the three beams cover only a portion of

the perimeter of the riser base **108**, i.e., each of the three beams cover only a partial length of the corresponding side of the riser base **108**.

[0093] The drawer **104** has a side which extends downwardly from at least a portion of the perimeter of the drawer top **130**. The drawer side is made up of two separate beams **120** and **122** which have a rectangular cross section, although other cross sections such as square, circular, triangular, elliptical, etc., are contemplated. The third and fourth side of the drawer top **130** are not coupled with any structure and are left open.

[0094] In this preferred embodiment, the drawer side is coupled with the drawer top **130** via one or more fasteners, such as bolts, screws, and/or nails. In another embodiment, the drawer side may be coupled with the drawer top **130** via an adhesive. The drawer top **130** and its side can be made from a single material or a composite material. In this preferred embodiment, the drawer top **130** is made from a composite material, namely a thick layer of wood on the bottom and a thin layer of sheet metal on the top. The sheet metal layer of the drawer top **130** will be used to magnetically secure the cap **106**, via two or more magnets in the cap platform **124** (see FIG. 5A), to the drawer top **130**. In some embodiments, drawer side can be integrally formed with the drawer top. For example, the drawer base and the drawer top may be formed as a single piece via an injection molded plastic.

[0095] The drawer side guides **126** and **128** are coupled with the drawer side, i.e., beam **120** and **122**, along an axial direction of the drawer top **130**, which in this embodiment is the same direction as the axial direction **132** of the riser base **108**. In a preferred embodiment, the drawer side guides **126** and **128** are guide rails made from aluminum or steel. The drawer side guides **126** and **128** are in sliding engagement with the riser guides **114** and **116**.

[0096] In this embodiment, the drawer side guides **126** and **128** are coupled to the sides of the two beams **120** and **122**. In an alternative embodiment, drawer side guides **408** and **410** are coupled with the bottoms of the two beams **404** and **406** (see FIG. 4A) which engage the two riser guides **214** and **216** that are coupled with the riser base **208** (see FIG. 2).

[0097] The drawer **104** further includes a drawer top guide (not visible in this figure, but see FIG. 3) which is coupled with the drawer top **130**. In this embodiment, the drawer top guide comprises two strips coupled with the drawer top **130** along the axial direction of the drawer top **130**. The two strips may be made from, wood, plastic or metallic material, such as aluminum, for example. The drawer **104** may alternatively include a support beam, discussed below, to resist any undesirable bending of the drawer top **130**.

[0098] Moreover, the lengths of the two beams of the drawer side cover the entire two sides of the rectangular drawer top **130**. In another embodiment, each of the two beams cover only a portion of the perimeter of the drawer top **130**, i.e., each of the two beams cover only a partial length of the corresponding side of the drawer top **130**.

[0099] The cap **106** comprises the cap platform **124** and two grooves (not visible in this figure, but see FIG. 5A) that are cut into the cap platform **124**. In an alternative embodiment, the cap **106** incorporates a cap platform guide that is coupled with the cap platform **124**. The grooves and/or the cap platform guide is in sliding and/or removable engagement with the drawer top guide. In a preferred embodiment, the drawer top guide, namely the two strips, and the grooves are generally rectangular and their corresponding dimensions are such that the grooves make either a clearance fit or an interference fit with the drawer top guide.

[0100] The cap platform **124** can be made from a single material, such as wood, aluminum, metal, plastic, or the like, or a composite material. In this preferred embodiment, cap platform **124** is made from a composite material, namely a thick layer of wood on the bottom and a thin layer of sheet metal on the top. In some embodiments, the cap platform **124** can be formed from a plastic material, such as an injection molded plastic. In this embodiment, when the cap platform **124** is formed from an injection molded plastic, the grooves and/or cap platform guides can be made integrally, during the injection molding of the cap platform **124**. The sheet metal layer of the cap platform **124** will be used to magnetically secure items, such as jewelry holders that include

magnets.

[0101] FIG. 2 depicts a perspective view of a display **200** according to a preferred embodiment. The only difference between the display **200** and the display **100** is that the riser guide is coupled with the riser base and the drawer side guide is coupled with the bottom side of the drawer side. Specifically, the display **200** includes a riser **202**, a drawer **204**, and a cap **206**. The riser **200** comprises a rectangular riser base **208**, a riser side that comprises of three beams disposed around a perimeter of the riser base **208**. Only two of the three beams, namely beam **210** and beam **212** are visible. The riser **202** further includes two riser guides **214** and **216** which are coupled with the riser base **208** along an axial direction **232** of the riser base **208**.

[0102] The drawer **204** has a rectangular top **230** and a side that comprises of two beams **220** and **222** around a perimeter of the drawer top **230**, and two drawer side guides **226** and **228** that are coupled with the drawer side, i.e., beam **220** and **222**, along an axial direction of the drawer top **230**, which in this embodiment is the same direction as the axial direction **232** of the riser base **208**. The drawer side guides **226** and **228** are coupled with the bottom side of the beams **220** and **222**. The drawer side guides **226** and **228** are in sliding engagement with the riser guides **214** and **216**. The drawer **204** further includes a drawer top guide (not visible in this figure, but see FIG. 3) which is coupled with the drawer top **230**. The drawer **204** further includes a support beam (not visible in this figure, but see FIG. 4A) coupled with the drawer top **230** along a transverse direction **234** of the drawer top **230**. The support beam operates to provide resistance to any undesired bending of the drawer top **230**. In some embodiments, the support beam is not necessary, especially when the platform cap is formed from, for example, plastic, aluminum and sheet metal materials. [0103] The cap **206** has a cap platform **224** and two grooves (not visible in this figure, but see FIG. 5A) in the cap platform **224**. In an alternative embodiment, the cap **206** comprises a cap platform guide that is coupled with the cap platform **224**. The grooves and/or the cap platform guide is in sliding and/or removable engagement with the drawer top guide. The drawer **204** further includes a handle **218** for use in sliding the drawer **204** and the cap **206** in the axial direction **232**.

[0104] FIG. 3 shows an exploded view of a display **300**, similar to the display **100** of FIG. 1. The display **300** comprises a riser **302**, a drawer **304**, and a cap **306**. The riser **302** comprises a riser base **308** that is rectangular and has a substantially planar surface. The riser **302** comprises a riser side, extending upwardly from riser base **308**, which comprises three beams of rectangular cross section **310**, **311**, and **312**. The riser **302** comprises a riser guide which comprises a guide rail **314**, coupled with the beam **310**, and a guide rail **316**, coupled with the beam **312**.

[0105] The drawer **304** comprises a drawer top **330** which is rectangular and has a substantially planar surface. The drawer **304** further comprises a drawer side which extends downwardly from the drawer top **330**. The drawer side comprises two beams **320** and **322** of rectangular cross section. The drawer **304** further comprises a drawer side guide which comprises a guide rail **326**, coupled to the side of the beam **322**, and a guide rail **328**, coupled to with the side of the beam **320**. The drawer guide rails **326** and **328** are in sliding engagement with the riser guide rails **314** and **316**, respectively. The drawer **304** further comprises a drawer top guide which comprises two strips **332** and **334**, such as plastic, metal, wood or composite strips, which are coupled with drawer top **330**. In some embodiments, such as when the entire drawer and sides are injection molded, the drawer top guides (strips **332**, **334**) can be molded as a single piece with the drawer top and sides.

[0106] The cap **306** comprises a rectangular cap platform **324** which has a substantially planar surface. The cap **306** further comprises two grooves **336** and **338** (see also FIG. 5A) which are cut into the cap platform **324** and are in sliding and/or removable engagement with the drawer top guide, i.e., the strips **332** and **334**.

[0107] FIG. 4A depicts a bottom perspective view of a drawer **400**, similar to the drawer **204**, of FIG. 2. The drawer **400** has a rectangular drawer top **402** having a substantially planar surface. The drawer **400** further comprises a drawer side which includes a beam **404** and a beam **406** of rectangular cross sections. The drawer **400** further includes a drawer side guide which comprises a

guide rail **408**, coupled with the bottom side of the beam **404**, and a guide rail **410**, coupled with the bottom side of the beam **406**. The drawer **400** further includes a support beam **416** which resists any undesirable bending of the drawer top **402**. The drawer **400** further includes a handle **410**. [0108] FIG. **4B** shows a top perspective view of the drawer **400** of FIG. **4A**. The drawer top **402** includes a drawer top guide which, in this embodiment, comprises two strips **412** and **414** that are positioned symmetrically on each side of an axial axis **418** of the drawer top **402** and coupled with the drawer top **402**. A cap, such as the cap **306** shown in FIG. **3**, has two grooves **336** and **338** in the cap platform **324** which are in sliding and/or removable engagement with the drawer top guide **412** and **414**, via a clearance fit or an interference fit. The drawer top **402** is made from a composite material consisting of a thick layer of wood and a thin layer of sheet metal which is glued to the top of the wood. A cap, such as the cap **306** of FIG. **3**, may comprise one or more magnets embedded within the cap platform **324** (see, FIG. **5A**, magnets **508** and **510**) to magnetically couple the cap **306** to the drawer **400**.

[0109] FIG. **5A** depicts a bottom perspective view of a cap **500** according to a preferred embodiment. According to this embodiment, the cap has two grooves **504** and **506** that are positioned symmetrically on each side of an axial axis **512** of the cap platform **502** and are cut in the bottom side of the cap platform **502**. The grooves **504** and **506** are in sliding and/or removable engagement with a drawer top guide, such as the drawer top guides **332** and **334** shown in FIG. **3**. Specifically, the cap **500** can slide in both direction along the axial direction of the cap platform **512**. The cap **500** can also be freely removed from a drawer, such as the drawer **400**, i.e., lifted from or placed on the drawer top **400**. The cap **500** further includes two or more magnets **508** and **510** that are coupled with the cap platform **502** along a transverse direction of the cap platform **502**. The magnets **508** and **510** in the cap platform **502** operate to magnetically couple the cap **500** with the top metallic layer of a drawer top, such as the drawer top **402** of the drawer **400** shown in FIG. **4B**.

[0110] FIG. **5B** depicts a top perspective view of the cap **500** of FIG. **5A**. The cap platform **502** can be made from a composite material including a thick layer of wood and a thin layer of metal which is glued to the top of the wood. In an alternative embodiment, the top metallic layer of the cap platform **502** is fastened to the wood layer via at least one of screws, bolts, and nails. In an alternative embodiment, the cap platform **502** can be formed from a plastic material, such as an injection molded plastic.

[0111] FIG. **6** depicts a perspective view of a display **600** according to a preferred embodiment. The display **600** comprises a riser **602**, a drawer **604**, and a cap **606**. In this embodiment, the display **600** further comprises a lighting system comprising of two light fixtures **608** and **610**. The light fixture **608** comprises a plurality of light emitting diodes (LEDs) **614** and the light fixture **610** comprises a plurality of LEDs **612**. The light fixtures **608** and **610** are coupled with the riser **602** via two holes **616** and **618**. In this preferred embodiment, the light fixtures **608** and **610** are modular such that upon insertion into the holes **616** and **618** they receive electrical power from the holes **616** and **618**. Furthermore, the modular light fixtures **608** and **610** can easily be disconnected from the power source by pulling them out of the holes **616** and **618**. The lighting system further includes a power source (not shown) that provides the electrical power to the light fixtures **608** and **610**. In a preferred embodiment, the power source is located remote and provides electrical power to the light fixtures **608** and **610** via a power line **614**. In some embodiments, the light fixtures **608**, **610** can be connected to power line **614** that extends into the holes **616**, **618**. In this embodiment, the light fixtures **608**, **610** may not be removable from the holes **616**, **618**. The power line **614**, for example, can run between beam **210** and slider guide **214** (see FIG. **2**) and between beam **212** and slider guide **216**, along the intersection of where the riser base meets the beam (or it could actually be run through the beam itself), up to the inner front traverse wall, then up through the holes **616**, **618**.

[0112] FIG. **7** depicts a perspective view of a riser **700** according to a preferred embodiment. In this

embodiment, a display comprises of the riser **700** and a cap, such as the cap **800** shown in FIGS. **8A** and **8B**, without the need for a drawer.

[0113] The riser **700** is rectangular and has a riser base **702** having a substantially planar surface. The riser **700** further includes a riser side which extends upwardly from at least a portion of the perimeter of the riser base **702**. The riser side is made up of three separate beams **704**, **706**, and **708**. All three beams have a rectangular cross section, although other cross sections such as square, circular, triangular, elliptical, etc., are contemplated. In another embodiment, the riser side is a single piece structure and is coupled with the riser base **702** along three sides of the riser base **702**. The fourth side of the riser base **702** is not coupled with any structure and is left open.

[0114] In this preferred embodiment, the riser side is coupled with the riser base **702** via one or more fasteners, such as bolts, screws, and/or nails. In another embodiment, the riser side may be coupled with the riser base **702** via an adhesive. In some embodiments, riser side can be integrally formed with the riser base. For example, the riser base and the riser sides may be formed as a single piece via an injection molded plastic. The riser base **702** and its side can be made from a single material or a composite material. In some embodiments, the riser base **702** and its side, i.e., the three separate beams **704**, **706**, and **708** are made from wood. Furthermore, in this preferred embodiment, the lengths of the three beams **704**, **706**, and **708** of the riser side cover the entire three sides of the rectangular riser base **702**. In another embodiment, each of the three beams **704**, **706**, and **708** cover only a portion of the perimeter of the riser base **702**, i.e., each of the three beams **704**, **706**, and **708** cover only a partial length of the corresponding side of the riser base **702**.

[0115] In this embodiment, the riser **702** does not require any riser guides. The cap, such as the cap **800** shown in FIGS. **8A** and **8B**, comprises a cap side, extending downwardly from at least a portion of a perimeter of a cap platform, such as the cap platform **802** of the cap **800**, wherein the cap side is in at least one of sliding and/or removable engagement with the riser side, i.e., the three beams **704**, **706**, and **708**. Specifically, the cap **800** can slide in both direction along an axial direction of the cap platform **814**, which in this embodiment is the same direction as the axial direction **710** of the riser base **702**. The cap **800** can also be freely removed from the riser **702**, i.e., lifted from or placed on the riser **702**.

[0116] FIG. **8A** depicts a top perspective view of a cap **800** according to a preferred embodiment. In this embodiment, a display comprises of a riser, such as the riser **700** shown in FIG. **7**, and this cap **800** without the use of a drawer. The cap **800** comprises a cap platform **802** and a cap side, shown in FIG. **8B**, which is in sliding and/or removable engagement with the riser side, such as the three beams **704**, **706**, and **708** of the riser side of the riser **700**. The cap platform **802** is rectangular and has a substantially planar surface. The cap platform **802** can be made from a single material or a composite material. In this preferred embodiment, cap platform **802** is made from a composite material, namely a thick layer of wood on the bottom and a thin layer of sheet metal on the top. The sheet metal layer of the cap platform **802** can be used to magnetically secure items, such as jewelry holders that include magnets, to the cap platform **802**. The cap **800** further includes a handle **804**.

[0117] FIG. **8B** shows a bottom perspective view of the cap **800** of FIG. **8A**. The cap includes a cap side which comprises of three L-shaped beams (L beams, known to artisans of ordinary skill), wherein two of them, **806** and **810** are coupled with the cap platform **802** along the axial direction **814** of the cap platform **802**, and the third L-shaped beam **808** is coupled with the cap platform **802** along a transverse direction of the cap platform **802**. The third L-shaped beam **808** operates to prevent the cap **800** from sliding too far when it makes contact with the beam **706**. The cap **800** further includes a support beam **812**, similar to the support beam **416** of the drawer **400** (see FIG. **4A**) along the transverse direction of the cap platform **802**. The support beam **812** resists bending of the cap platform **802** around the axial direction **814**. It should be understood that the support beam **812** may have various shapes, including a thin rectangular shape, a square shape, or the like.

[0118] FIG. **8C** shows the interaction between the riser **702** and the cap **800** where the size of the cap is larger than a riser size, and an outer perimeter edge of the riser is within the outer perimeter

edge of the cap.

[0119] FIG. 8D shows the interaction between the riser **702** and the cap **800** where the size of the cap **800** is the same as a riser **702** size, and an outer perimeter edge of the riser **702** is substantially coplanar with the outer perimeter edge of the cap **800**.

[0120] Referring to FIGS. 9 through 11, a riser **102A** can include a drawer **104A** slidably mounted there upon. The riser **102A** may be attached to the drawer **104A** by guides as described above, where the guides may be on the base of the riser, on the top of the side beams of the riser or on the side of the side beams of the riser, for example. The cap may be selected from various sized and shapes of cap **106A**, **106B**, **106C**, **106D**. For example, as shown in FIG. 11, the cap **106A** may be an oval cap that extends beyond the edges of the riser **102A**. In such an embodiment, the riser **102A** and drawer **104A** may be hidden from view, focusing a customer's attention on the items displayed atop the cap **106A**. Of course, other sizes and shapes of the cap may be contemplated within the scope of the present invention, provided that, in the embodiment of FIGS. 9 through 11, the cap is made larger than the length and/or the width of the riser **102A**. The cap **106A**, for example, may connect with the top of the drawer **104A** via various mechanisms, including those discussed above, such as magnets, guide strips and grooves, or the like.

[0121] Referring to FIGS. 12A through 12C, in some embodiments, the riser **102B** may be sized to match a size and shape of the cap **106A**. In this embodiment, a drawer **104A** may be present, as described above. When the display is assembled, the sides of the cap **106A** may be aligned with the sides of the riser **102B** to provide a clean look from the cap **106A** to the display case (not shown) in which the display is positioned. In some embodiments, the cap may be slightly longer and wider than the riser, such as from 0.5 to 1.5 inches, typically about 1 inch, wider on each side and on each of the front and rear of the riser. Typically, the base riser can be any size and shape that falls between the size of base riser and top cap size in FIG. 11 and the base riser and top cap size in FIG. 12C.

[0122] Referring to FIGS. 13A and 13B, in some embodiments, the riser guides **114B**, **116B** may be positioned at a top of the side beams **110B**, **112B** of the riser **102C**. The drawer **104B** may have drawer guides **126B**, **128B** that are positioned on an outside of the bottom surface of the drawer **104B** (outside of the drawer side beams **120B**, **122B**). A cap (not shown) may be placed on top of the drawer **104B**, as described in detail above.

[0123] In other embodiments, the drawer guides may be positioned at the bottom of the drawer side beams, thus raising the drawer **104B** to a greater height. In this embodiment, to prevent visualization into the space between the drawer and the riser, a front vertical member may be disposed between the drawer side beams **120B**, **122B** to block such a view.

[0124] Referring to FIGS. 14A and 14B, a riser **102D** may be formed without any side beams, where the riser guides **114B**, **116B** can be mounded on the top surface **103** of the riser **102D**. The drawer **104B** may then slide along the riser guides **114B**, **116B** with mating drawer guides **126B**, **128B**. A cap (not shown) may be placed on top of the drawer **104B**, as described in detail above.

[0125] In some embodiments, as shown in FIGS. 15A and 15B, the riser may be eliminated and the riser guides **114B**, **116B** may be directly mounted to a surface **150** of a display case. The surface **150** may be a floorboard of the display case or the display case frame itself, for example. The drawer **104B** may then slide along the riser guides **114B**, **116B** with mating drawer guides **126B**, **128B**. A cap (not shown) may be placed on top of the drawer **104B**, as described in detail above.

[0126] Referring to FIGS. 16A and 16B, any of the styles described above may have the drawer guides and the riser guides replaced with another mechanism, such as a mechanically assisted attachment, to move the drawer **104B** relative to the riser **102E**. For example, the mechanically assisted attachment may be hydraulic cylinders **114C**, **116C** mounted to the riser **102E** and the drawer **104B** to permit relative movement (slidable engagement) therebetween. Other types of systems, such as a motorized system, a non-motorized elastic band system, a linear actuator, or any system that assists the drawer **104B** to slide back into a closed position with the riser **102E**, or

floorboard (such as surface **150** described above with respect FIGS. **15A** and **15B**, above), for example.

[0127] Referring to FIGS. **17A** through **17C**, a riser safe **170** is shown with a cap **106B** mountable to a top surface **178** thereof. The riser safe **170** can form an enclosure with a solid front side **172**. The back side of the riser safe **170** may include a door **174** that can open to permit access to an interior of the riser safe **170**. The cap **106B** may be sized to fit inside the interior of the riser safe **170** and further permit closure of the door **174** once the cap **106B** is positioned inside. In some embodiments, slots **176** may be formed on opposite sides **177** of the riser safe, formed from the opening formed by the door **174**, along a lower edge of the sides **177** to the front **172** of the riser safe **170**. The slots can receive side edges **107** of the cap **106B** as it is slid into the interior of the riser safe **170**, as shown in FIG. **17C**.

[0128] As best seen in FIG. **17C**, magnets **180** may be formed in the top **178** of the riser safe **170** for securing the cap **106B** thereto, as described in detail above. Of course, in some embodiments, the magnets may be formed in the cap **106B**, wherein the top **178** of the riser safe **170** may include a magnetically attractive material. Other securing mechanisms may be used in addition to or in place of the magnets **180**.

[0129] In many embodiments described above, the display system can include sheets of metal/magnets within the elements in order for the elements not to topple over during times of handling. Referring to FIGS. **18A** through **18C**, when products **190** include RFID tagging, where a wand reads the price tags wirelessly, for example, magnets and metal sheets can interfere with this technology. Thus, a non-magnetic display system can use no metal sheet or magnets in the top cap **106C** and the elements **190**. This system can have the elements sitting loosely on the top cap (or glued or screwed in place). This top cap **106C** can be removed and can slide into the notched groove in the safe (as described above with respect to FIGS. **17A** through **17C**) or into a stores vault or safe not built into the base platform riser. The non-magnetized/metal sheet top cap **106C** can be useful for those jewelers using RFID technology. The non-magnetic display system may be applied to any of the embodiments described herein, not just the specific style and design as illustrated in FIGS. **18A** through **18C**.

[0130] Referring now to FIGS. **19A** through **19D**, a riser safe **182** can include a cap **188** for displaying elements **190** thereon. The riser safe **182** may be closed, as shown in FIG. **19D**, to provide an enclosed interior storage space therein once the door **192** is closed. In this embodiment, a lift mechanism, such as a scissor lift **194** may be used to raise and lower the cap **188** between a display position (as seen in FIG. **19A**) and a storage position (as seen in FIG. **19D**). A top **184** of the riser safe **182** may be stored on the bottom of the riser safe, as shown in FIG. **19A**, when the system is in the display position. After the cap **188** is lowered, the top **184** may be moved from the bottom to cover the top, closing the interior of the riser safe **182**. The top **184** may secure to the top of the riser safe **182** in various manners. For example, the top **184** may slide in a channel (not shown) formed in sides of the riser safe **182**, where the door **192** may close, via hinges **196**, to prevent sliding the top **184** out of these channels. Other mechanisms to permit the top **184** to be removably disposed between the top and bottom of the riser safe **182** are contemplated within the scope of the present invention.

[0131] A scissor lift control mechanism **198** may be disposed inside the door **192**, for example, for controlling the scissor lift **194**. While a scissor lift **194** is illustrated, other mechanisms may be used, such as a motorized screw drive, linear actuator, springs, or the like.

[0132] A lock **199** may be positioned on the exterior of the door **192**. The lock **199** may help prevent access to an interior of the riser safe **182**. While not shown, it should be understood that a lock may also be used on the riser safe **170**, **170A** of FIGS. **17A** through **18C**. The lock **199** may be a dial lock, a keyed lock, a key pad, a finger print reader lock, or the like.

[0133] In some embodiments, the door **192** of FIGS. **19A** through **19D** may be replaced by a solid wall. Thus, the base riser can have four sidewalls and a base. Then, the top cap can scissor down

into the base and a top cap **184** is then removed from the bottom of the base riser **182** and placed on the top, as shown in FIG. **19D**. The top cap **184** can lock into the four sidewalls of the base and can be removed in the morning by, for example, a key lock, digital lock, or other mechanism. This avoids having to have a door on the back. In some embodiments, the operating system for the scissor lift can be built into the back sidewall of the display to permit access without having to open a door.

[0134] The various riser safes described herein may create a graded safe to store jewelry overnight, for example, thus replacing or supplementing the safe or vault present in a jewelry store.

[0135] Referring to FIG. **20**, the display **100** of FIG. **1** is shown where the base platform riser **102** is slightly elevated in the back. By slightly elevating the back edge, many of the different methods of closing the drawer top would be assisted by gravitational pull. Visually, this would also tilt the merchandise towards the customer visually. Any and all of the above designs can be incorporated into a tilted version of the riser. As can be seen, a height **H1** may be less than a height **H2**.

Typically, the difference in height may be from about 0.5 inch to about 2 inches or more, depending on the depth of the riser **102**.

[0136] Referring to FIGS. **21A** through **21C**, a lighting assembly **210** can include a base **212** with a fixed pole **214** extending upward from the base **212**. A telescoping riser **216** may telescope from the fixed pole **214** to adjust a height of one or more lighting elements **220** disposed near a top of the telescoping riser **216**. A telescoping fixing member **218**, such as a set screw, may be used to fix the height of the lighting assembly **210**. A power cord **222** can extend from the lighting assembly **210**. The lighting elements **220** may be, for example, LED lamps.

[0137] In some embodiments, multiple ones of the lighting assemblies **210** may be used on multiple displays **228**, as shown in FIG. **21C**. In these embodiments, the lighting assemblies **210** may have their power coupled into a combiner **224**, where a single lead **226** may be used to connect to external power.

[0138] Referring now to FIGS. **22A** through **22C**, a cutout **252** may be formed in a platform cap **250**. The platform cap **250** may be any of the previously described platform caps, for example. From a front side **250A** of the platform cap **250**, a half moon, half oval, or other shaped cutout may be visible. From the back side **250B** of the platform cap **250**, a partial depth cutout **256** may be larger than the cutout **252**, permitting the placement of a nameplate **254** therein, where a portion of the nameplate **254** may be visible from the front side thereof. The nameplate **254** may include a seller's name, a type of product, or other similar indicia. With this design, an independent jeweler can now have their risers customized with a logo or message in very small quantities.

[0139] In some embodiments, as shown in FIG. **22D**, a cutout **262** may be a partial depth recess formed in the platform cap **250**. As in the above embodiments, the platform cap **250** may be any of the previously described platform caps, for example. In some embodiments, a piece of acrylic or other similar material may be etched or printed to show a seller's name, a type or product or other similar indicia. In some embodiments, a printed thin sheet may be placed under the acrylic for the indicia. In some embodiments, the acrylic may be some other material onto which an indicia may be placed. The cutout **262** may be of various depths, from about 2 mm to about 15 mm, for example, typically, the cutout **262** has a depth from about 10 percent to about 70 percent of the thickness of the platform cap **250**. While the cutout **262** is shown in a half-moon shape, it should be understood that the cutout **260** may be any shape, such as square, rectangular, oval, triangular, or any geometric or non-geometric shape.

[0140] Of course, other shapes of the cutouts may be realized within the scope of the present invention, provided that a nameplate may be placed and retained in the cutout.

[0141] The foregoing explanations, descriptions, illustrations, examples, and discussions have been set forth to assist the reader with understanding this invention and further to demonstrate the utility and novelty of it and are by no means restrictive of the scope of the invention. It is the following claims, including all equivalents, which are intended to define the scope of this invention.

Claims

1. An apparatus comprising: a riser safe comprising: a housing comprising a first side wall, a second side wall, and a top surface; the first side wall and the second side wall define slots; a door coupled to the housing; and a cap comprising side edges; wherein the slots are configured to accept the side edges.
 2. The apparatus of claim 1, wherein the riser safe further comprises a lock configured to selectively secure the door to the housing.
 3. The apparatus of claim 2, further comprising a magnet located in or on the cap, in or on the top surface, or both in or on the cap and in or on the top surface.
 4. The apparatus of claim 3, wherein the top surface comprises ferromagnetic material, the cap comprises ferromagnetic, or both the cap and the top surface comprises ferro magnetic material.
 5. The apparatus of claim 1, further comprising a securing mechanism configured to secure attachment of the cap to the top surface.
 6. The apparatus of claim 5, wherein the securing mechanism comprises a magnet located in or on the cap, in or on the top surface, or both in or on the cap and in or on the top surface.
 7. The apparatus of claim 6, wherein the securing mechanism further comprises ferromagnetic material located on or in the top surface, on or in the cap, or both.
 8. The apparatus of claim 1, wherein the top surface, the first side wall, and the second side wall at least partially define an opening, and the door is configured to close the opening.
 9. The apparatus of claim 8, wherein the slots are in communication with and extend away from the opening.
 10. The apparatus of claim 8, wherein at least a portion of each slot is exposed when the door is closed.
 11. An apparatus comprising: a riser safe defining a receiving space, wherein the receiving space is at least partially surrounded by a first side wall, a second side wall, and a top wall, and a door provides access to the receiving space; and a cap; wherein the cap is configured to be selectively coupled to the riser safe by a securing mechanism.
 12. The apparatus of claim 11, wherein the riser safe further comprises a lock, and the lock is configured to secure the door.
 13. The apparatus of claim 11, wherein the securing mechanism comprises a magnet.
 14. The apparatus of claim 13, wherein the top wall, the cap, or both the top wall and the cap comprises a ferromagnetic material.
 15. The apparatus of claim 11, wherein the riser safe further defines an opening that is in communication with the receiving space.
 16. The apparatus of claim 15, wherein both the first side wall and the second side wall define a slot that are located in the same plane.
 17. The apparatus of claim 15, wherein the cap is wider than the opening and sized to be fully received within the receiving space when the door is in a closed position.
 18. The apparatus of claim 16, wherein the cap is configured to slide in the slots.
 19. The apparatus of claim 18, wherein the cap is configured to be fully received within the receiving space when the door is closed.
 20. The apparatus of claim 16, wherein the slots are exposed when the door is closed.
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