US007765731B1

(12) **United States Patent**
Liebig

(10) **Patent No.: US 7,765,731 B1**
(45) **Date of Patent: Aug. 3, 2010**

(54) **QUICK RELEASE GUN SIGHT ADAPTER**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **11/392,895**

(22) Filed: **Mar. 30, 2006**

(51) **Int. Cl.**
F41G 1/38 (2006.01)

(52) **U.S. Cl.** **42/127**; 42/124; 42/148; 42/113

(58) **Field of Classification Search** 42/127, 42/124, 128, 148, 147, 111, 113
See application file for complete search history.

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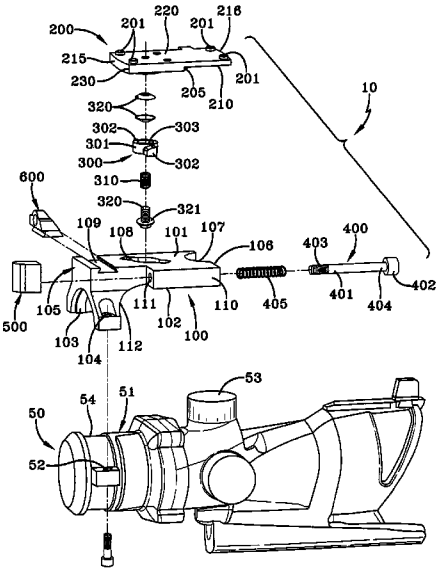
(57) **ABSTRACT**

The quick release gun sight adapter includes a scope adapter, a red dot sight adapter, a locking block, a spring loaded ramped blade, and a spring loaded latch piston. The red dot sight adapter is attachable to a red dot sight and the ramped blade is attached to the red dot sight adapter. The ramped blade is rotatably attachable to the scope adapter, and the scope adapter is rotatably adapted to hold the ramped blade such that when the ramped blade is attached to the scope adapter, and the ramped blade and the red dot sight adapter are rotated the ramped blade engages the locking block and locks the ramped blade into place. The piston communicates with the locking block such that when actuated the piston engages the locking block such that the ramped blade and red dot sight adapter may be rotated and unattached from the scope adapter.

11 Claims, 4 Drawing Sheets



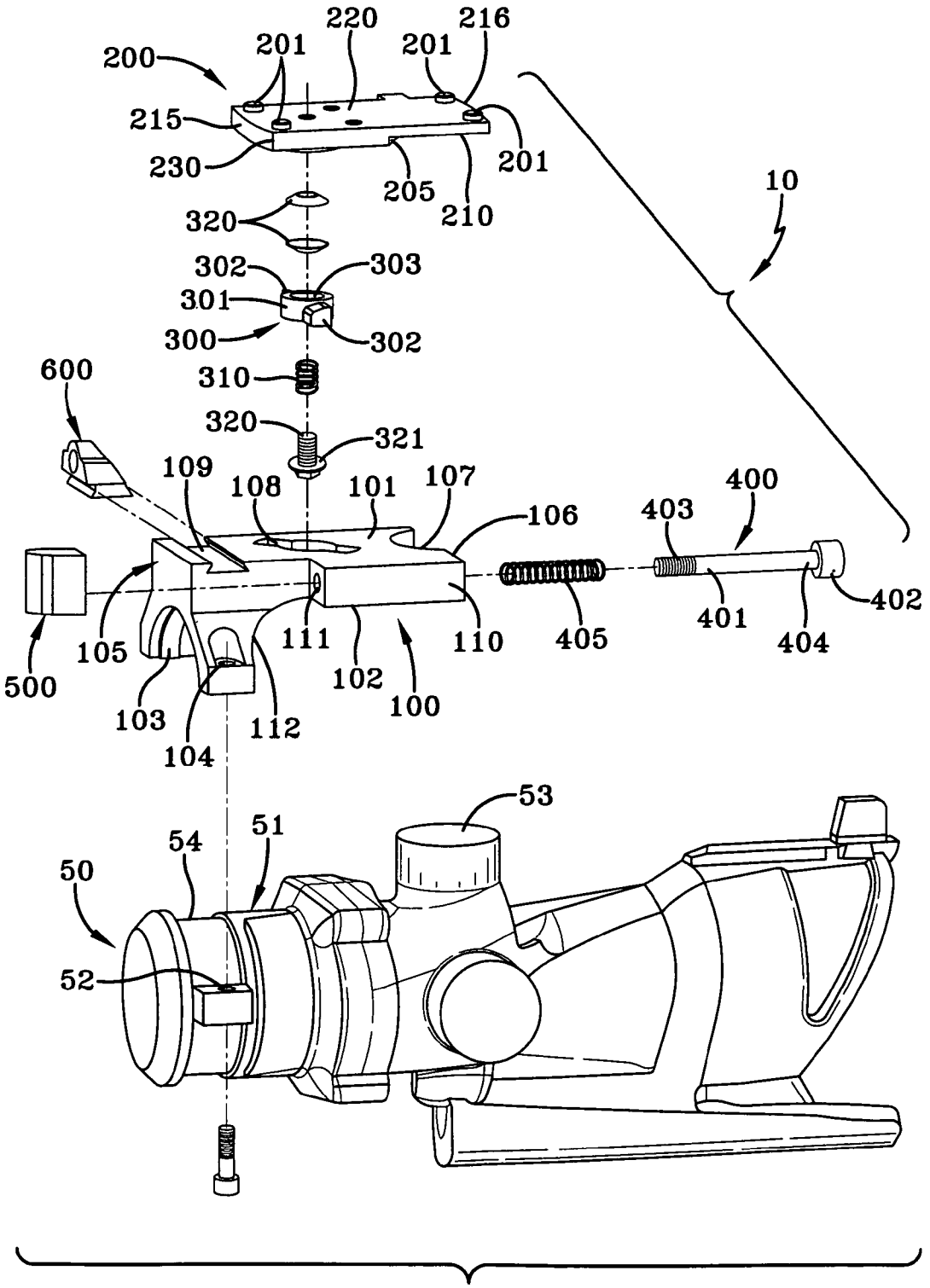

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FIG-1

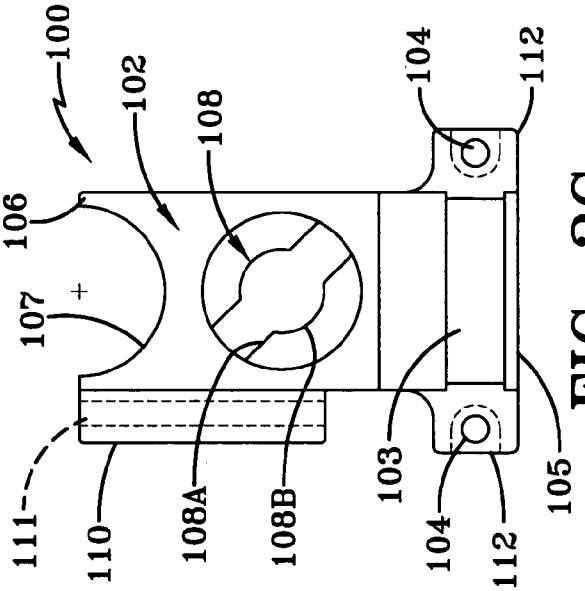


FIG-2C

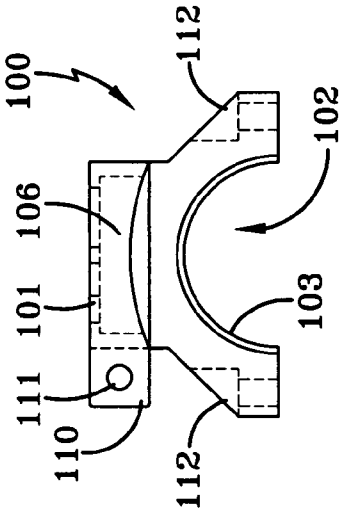


FIG-2E

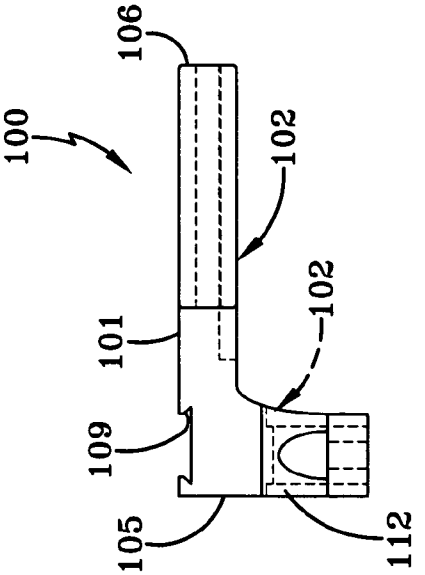


FIG-2D

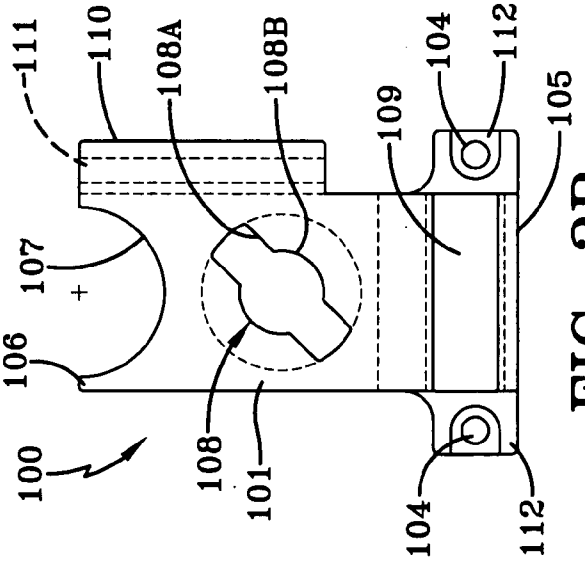


FIG-2B

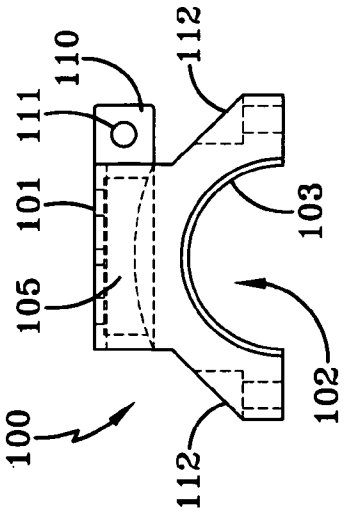
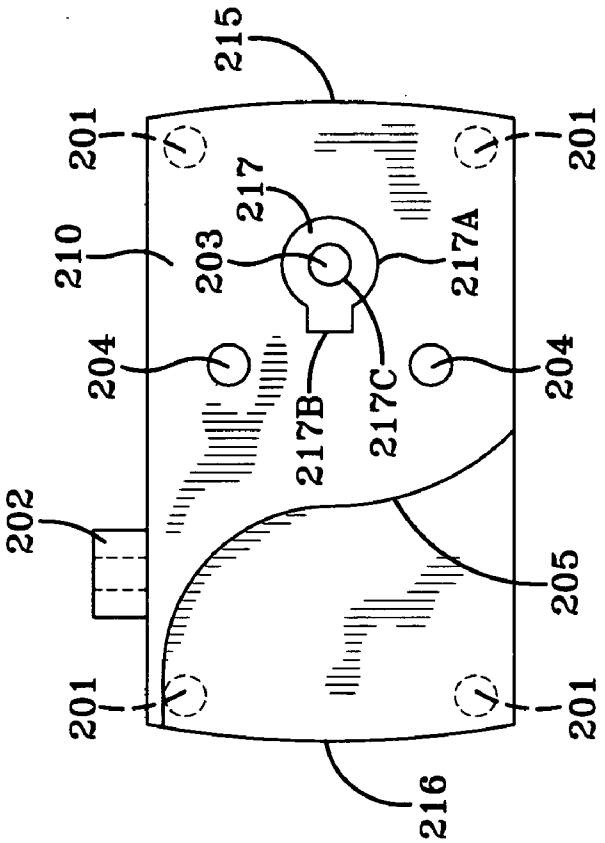
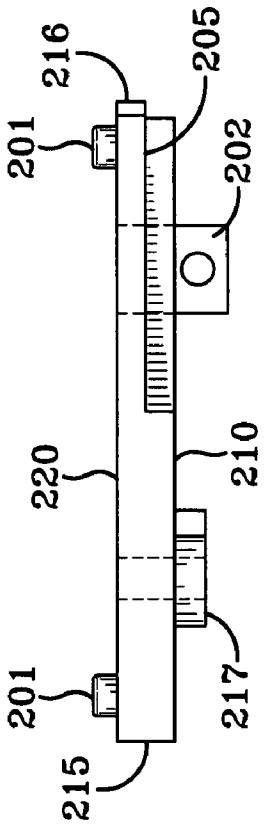


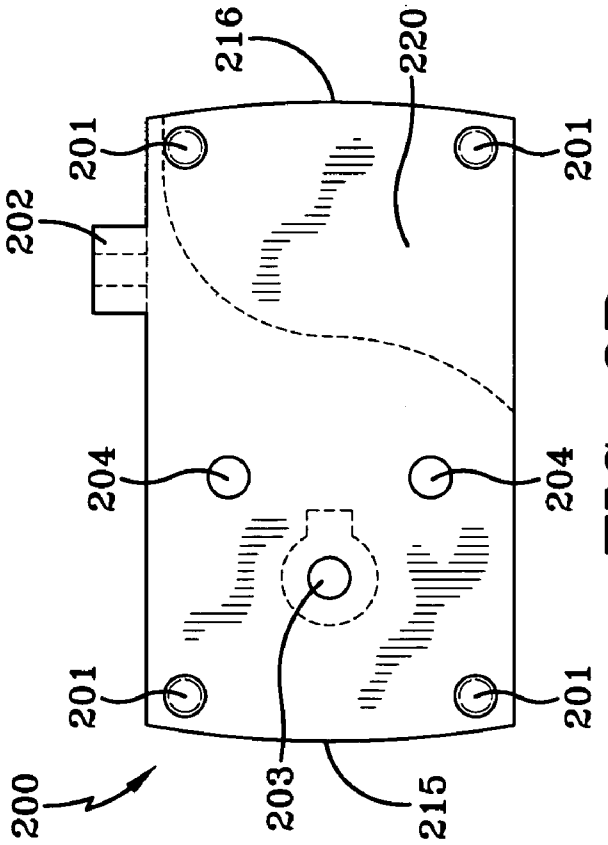
FIG-2A



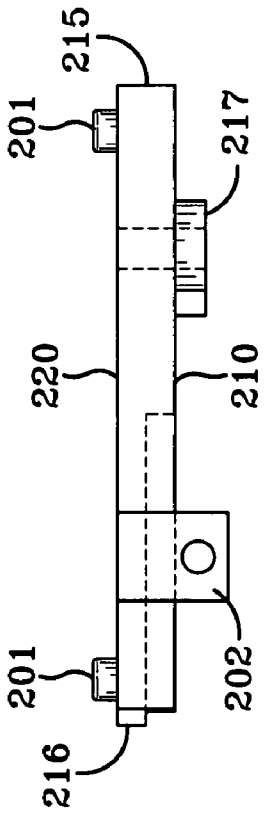
FIG–3C



FIG–3D



FIG–3B



FIG–3A

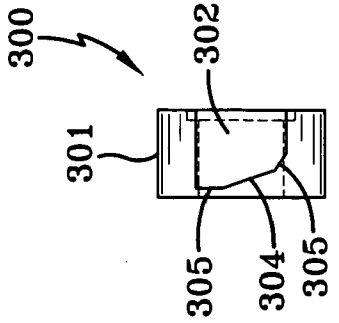


FIG-4C

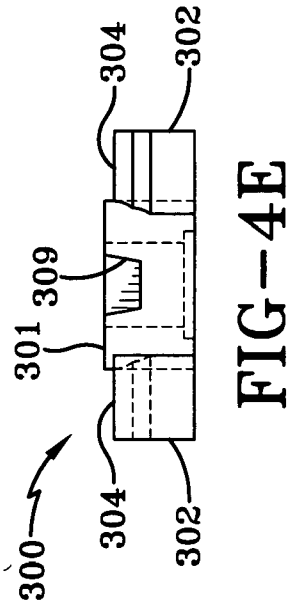


FIG-4E

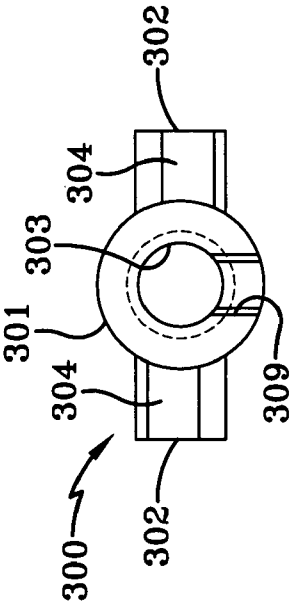


FIG-4A

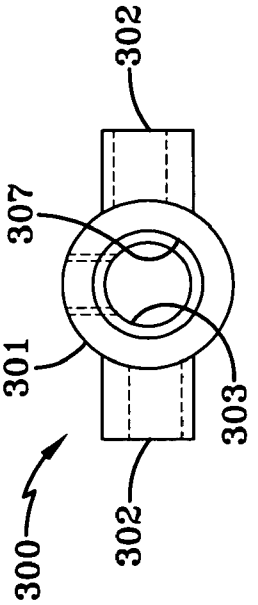


FIG-4D

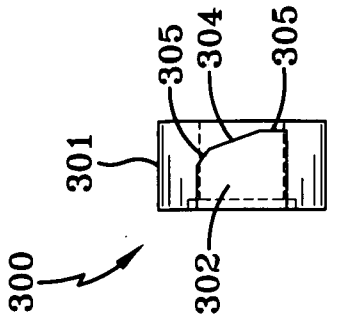


FIG-4B

QUICK RELEASE GUN SIGHT ADAPTER

STATEMENT OF GOVERNMENT INTEREST

The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without payment of any royalties thereon or therefor.

BACKGROUND

The present invention relates to a quick release gun sight adapter. More specifically, but without limitation, the present invention relates to a quick release red dot gun sight adapter.

Currently, typical military weapons, such as guns, utilize a fixed iron sight or a fixed red dot sight. Only one sight is attached to the weapon at a time. Often the red dot sight is unusable due to weather conditions (such as precipitation); therefore, another type of sight, such as the iron sight, needs to be used. Each sight needs to be individually changed and adjusted. Changing sights is difficult and time consuming. Each time a sight is changed the weapon requires sighting in and the sights need to be adjusted. This wastes valuable time, especially in military or force protection situations.

Thus, there is a need in the art to provide a quick release gun sight adapter that allows both an iron sight and a red dot sight to be concurrently attached to a weapon and a quick release gun sight adapter without the limitations inherent in present methods.

SUMMARY

The present invention is directed to a quick release gun sight adapter. The quick release gun sight adapter includes a scope adapter, a red dot sight adapter, a locking block, a spring loaded ramped blade, and a spring loaded latch piston. The scope adapter is attachable to a scope and the scope is attachable to a gun. The red dot sight adapter is attachable to a red dot sight and the ramped blade is attached to the red dot sight adapter. The ramped blade is rotatably attachable to the scope adapter, and the scope adapter is rotatably adapted to hold the ramped blade such that when the ramped blade is attached to the scope adapter, and when the ramped blade and the red dot sight adapter are rotated, the ramped blade engages the locking block. When the ramped blade is further rotated the locking blade locks the ramped blade into place. The piston communicates with the locking block such that when actuated the piston engages the locking block such that the ramped blade and the red dot sight adapter may be rotated and unattached from the scope adapter.

It is a feature of the invention to provide a quick release gun sight adapter that allows two sight systems to be concurrently attached to a scope.

It is a feature of the invention to provide a quick release gun sight adapter that enables quick removal for in-climate conditions to attain use of the back up iron sight.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects and advantages of the present invention will become better understood with reference to the following description and appended claims, and accompanying drawings wherein:

FIG. **1** is an exploded perspective view of an embodiment of the quick release gun sight adapter and a gun scope;

FIG. **2**A is a rear view of an embodiment of the scope adapter;

FIG. **2**B is a top view of an embodiment of the scope adapter;

FIG. **2**C is a bottom view of an embodiment of the scope adapter;

FIG. **2**D is a side view of an embodiment of the scope adapter;

FIG. **2**E is a front view of an embodiment of the scope adapter;

FIG. **3**A is a side view of an embodiment of the red dot sight adapter;

FIG. **3**B is a top view of an embodiment of the red dot sight adapter;

FIG. **3**C is a bottom view of an embodiment of the red dot sight adapter;

FIG. **3**D is the opposite side view of an embodiment of the red dot sight adapter;

FIG. **4**A is a top view of an embodiment of the ramped blade;

FIGS. **4**B and **4**C are opposite side views of an embodiment of the ramped blade;

FIG. **4**D is a bottom view of an embodiment of the ramped blade; and

FIG. **4**E is a front view of an embodiment of the ramped blade.

DETAILED DESCRIPTION

The preferred embodiments of the present invention are illustrated by way of example below and in the above listed figures. As seen in FIG. **1**, a quick release gun sight adapter **10** includes a scope adapter **100**, a red dot sight adapter **200**, a spring loaded ramped blade **300**, a spring loaded latch piston **400**, and a locking block **500**. The scope adapter **100** is attachable to a scope **50**, while the scope **50** is attachable to a gun, particularly a machine gun (not shown). The red dot sight adapter **200** is attachable to a red dot sight (not shown). The spring loaded ramped blade or ramped blade **300** is attached to the red dot sight adapter **200**. The ramped blade **300** is rotatably attachable to the scope adapter **100**. The piston **400** communicates with the locking block **500** such that a latch is created. The scope adapter **100** is rotatably adapted to hold the ramped blade **300** such that when the ramped blade **300** is disposed within the scope adapter **100** and when the ramped blade **300** and the red dot sight adapter **200** are rotated the ramped blade **300** engages the locking block **500** to open the latch, and when the ramped blade **300** is further rotated the locking blade **500** is engaged to close the latch and lock the ramped blade **300** and the red dot sight adapter **200** into place. When actuated, the piston **400** opens the latch such that the ramped blade **300** and red dot sight adapter **200** may be rotated and unattached from the scope adapter **100**.

In the discussion of the present invention, the invention will be discussed in a M4 carbine environment; however, this invention can be utilized for any type of need that requires use of a quick release gun sight adapter or quick release adapter.

As seen in FIG. **1**, the scope adapter **100** is attachable to a scope **50**, particularly, but without limitation, to an ACOG scope. The scope adapter **100** is configured to attach to the scope **50** and act as a platform. As seen in FIGS. **1**, **2**A, **2**B, **2**C, **2**D and **2**E, the scope adapter **100** may include an upper scope adapter portion **101**, a lower scope adapter portion **102**, a first scope adapter end portion **105** and a second scope adapter end portion **106**. The lower scope adapter portion **102** is configured to correspond to a portion of the scope **50**, particularly a top portion **51** of the scope **50**. The scope adapter **100**, particularly the lower scope adapter portion **102**,

may include a circular portion **103** that corresponds to the top of the viewing portion or lens **54** of a scope **50**. The circular portion **103** may be at the first scope adapter end portion **105**. As seen in FIG. **1**, the circular portion **103** may envelop a top portion of the lens **54** (which typically has a circular cross section). The circular portion **103** may also include locking apertures **104** that correspond to scope apertures **52** (the scope apertures **52** disposed on the scope **50**). The scope adapter **100** may be attached to the scope **50** via any type of fastener, such as, but without limitation, a screw or bolt that utilizes the locking apertures **104** and the scope apertures **52**. As seen in FIGS. **1**, **2**B and **2**C the locking apertures **104** may be disposed on scope adapter flanges **112**. The scope adapter flanges **112** may be disposed on opposite diametrical sides of the circular portion **103** of the scope adapter **100**. In an embodiment of the invention, there are two sets of corresponding locking apertures **104** and scope apertures **52**. The scope adapter **100** may also include a semicircular cutout **107** located at the second scope adapter end portion **106**. In the preferred embodiment of the invention, the semicircular cutout **107** and the circular portion **103** are spaced at about ninety degrees from each other. As seen in FIG. **1**, the semicircular cutout **107** may correspond to an elevation adjusting knob **53** located on the top portion **51** of the scope **50**.

The scope adapter **100** may also include a ramped blade aperture **108**. As shown in FIG. **2**B, the shape of the ramped blade aperture **108** corresponds to the ramped blade **300**, and may be a rectangle **108**A with a circle **108**B disposed at about middle of the rectangle **108**A. The rectangle **108**A is angled to the sides of scope adapter **100**. The preferred angle is about forty-five degrees. In the preferred embodiment, the diameter of the circle **108**B is larger than the width of the rectangle **108**A. The ramped blade aperture **108** extends through the scope adapter **100**. In the preferred embodiment there is a counter bore or a circular fossa **114** that corresponds to the ramped blade aperture **108**. The circular fossa **114** is located at the lower scope adapter portion **102**. The circular fossa **114** does not extend entirely through the scope adapter **100** and the diameter of the circular fossa **114** may correspond to the length of the rectangle **108**A of the ramped blade aperture **108**. The ramped blade aperture **108** corresponds to the ramped blade **300** such that when the ramped blade **300** is placed within the ramped blade aperture **108** and the red dot sight adapter **200** (as well as the ramped blade **300**) is rotated, the ramped blade **300** rotates within the circular fossa **114**, the red sight adapter **200** engages the locking block **500** to open the latch and when the ramped blade **300** is further rotated the locking blade **500** is engaged to close the latch and lock the ramped blade **300** and the red dot sight adapter **200** into place.

As seen in FIGS. **1**, **2**B and **2**D, the scope adapter **100** may also include a back up iron sight groove **109**. The back up iron sight groove **109** may correspond to a back up iron sight **600** that may be utilized if the red dot sight is not being used or is unusable due to precipitation. The back up iron sight groove **109** may be configured such that a back up iron sight **600** may slide in and out of the back up iron sight groove **109**. The back up iron sight **600** may be a standard off the shelf rear sight, or any type of iron sight practicable, and may be customized to shooter preference or mission requirements.

The scope adapter **100** may also include a latch piston portion **110**. As seen in FIGS. **1**, **2**A, **2**B, **2**C and **2**E, the latch piston portion **110** may be adjacent to the ramped blade aperture **108** and protrude latitudinaly or radially from the axis of the scope adapter **100**. The latch piston portion **110** may include a latch piston chamber **111** that accepts the latch piston **400**. The latch piston chamber **111** may be a hollow cylinder and may extend through the entire latch piston portion **110**. In the preferred embodiment, the latch piston portion **110** extends from the second scope adapter end portion **106** toward the first scope adapter end portion **105**, however, the latch piston portion **110** may terminate near the longitudinal or axial midpoint of the scope adapter **100** or at least terminate prior to extending to the first scope adapter end portion **105**.

As shown in FIGS. **1**, **3**A, **3**B, **3**C, and **3**D the red dot sight adapter **200** may be flat base that corresponds to the bottom of a red dot sight. The red dot sight adapter **200** may be substantially rectangular. The red dot sight adapter **200** may include a first red dot sight adapter end **215**, a second red dot sight adapter end **216** and red dot sight tabs **201** to snap in and/or secure the red dot sight. The red dot sight adapter **200** may also include an extension tab **202**, a bottom portion **210** and a top portion **220**. The extension tab **202** may be disposed near or at the second red dot sight adapter end **216** and on the opposite side of where the red dot sight adapter **200** engages the locking block **500**. The extension tab **202** may extend past the red dot sight adapter **200** and below the bottom portion **210** such that the extension tab **202** engages and has contact with the side of the scope adapter **100**, particularly when the quick release gun sight adapter **10** is in the locked position (or when the latch closed).

The red dot sight adapter **200** may also include a fastener aperture **203** as well as two additional apertures **204**. The fastener aperture **203** and the two additional apertures **204** extend through the entire red dot sight adapter **200** from the top portion **220** through the bottom portion **210**.

In the preferred embodiment as shown in FIGS. **1**, **3**C and **3**D, the red dot sight adapter **200** may have a cut-out relief, fossa or lip **205** at the bottom portion **210** of the red dot sight adapter **200**. The lip **205** may start at the second red dot sight adapter end **216** and extend toward the first red dot sight adapter end **215**. The lip **205** may be serpentine in shape and extend latitudinally on the red dot sight adapter **200**. In the preferred embodiment of the invention, the lip **205** corresponds to the semicircular cutout **107** of the scope adapter **100**, when the red dot sight adapter **200** or latch is in the closed or locked position.

The red dot sight adapter **200** may also include an aperture extension **217**. The aperture extension **217** may be cylindrical and protrude from the bottom portion **210** of the scope adapter **200**. The aperture extension **217** corresponds to the fastener aperture **203**. As seen in FIG. **3**C, in the preferred embodiment, the aperture extension **217** may include a cylindrical portion **217**A, a projection portion **217**B and an aperture extension bore **217**C. The projection portion **217**B may be rectangular and extend out from the cylindrical portion **217**A toward the second red dot sight adapter end **216**. The aperture extension bore **217**C passes through the entire axial length of the cylindrical portion **217**A and corresponds and is axially aligned to the fastener aperture **203**.

As shown in FIGS. **1**, **4**A, **4**B, **4**C, **4**D and **4**E, the ramped blade **300** may have a circular portion **301** and two side ramped portions **302**. The circular portion **301** may be disposed between the two side ramped portions **302**. The circular portion **301** may be substantially circular and include a ramped blade bore **303** for accepting a fastener **320** and a fastener spring **310** to fasten the ramped blade **300** to the red dot sight adapter **200**. The ramped blade **300** may also utilize spring washers **320**. The side ramped portions **302** may be disposed on opposite ends of a diameter line cut through the circular portion **301**. The two side ramped portions **302** are disposed at about a ninety degree angle with the length of the red dot sight adapter **200**. Each side ramped portion **302** may include a truncated portion **304** and the two side ramped

portions **302** may be truncated in opposite directions. In the preferred embodiment, the side ramped portions **302** may include bevels **305**. The circular portion **301** may also include a ramped blade counter bore **307** for accepting the head **321** of the fastener **320**. The ramped blade counter bore **307** and ramped blade bore **303** may be axially aligned. As shown in FIGS. **4**A, **4**D and **4**E, the circular portion **301** may also include a depression **309** or cut out which only extends through a portion of the circular portion **301** and does not extend in the axial direction through the circular portion **301**. In the preferred embodiment, the diameter of the circular fossa **114** corresponds to the length of the ramped blade **300**.

As shown in FIG. **1**, the latch piston **400** may include a cylindrical portion **401** and a handle portion **402**. The cylindrical portion **401** and the handle portion **402** may be axially aligned. The cylindrical portion **401** may include a first end **403** and a second end **404**. The first end **403** or a portion of the first end **403** may be threaded to correspond to a bore in the locking block **500**. At the second end **404**, the handle portion **402** may be attached to the cylindrical portion **401**. In the preferred embodiment, the latch piston **400** includes a spring **405**. The spring **405** envelops the cylindrical portion **401**. The cylindrical portion **401** is disposed within the latch piston chamber **111**, with the first end **403** and the handle portion **402** disposed on opposite axial ends of the latch piston chamber **111**. In the preferred embodiment, the handle portion **402** is at or near the second scope adapter end portion **106**. The first end **403** may be threadedly attached to the locking block **500** such that the locking block **500** and handle portion **402** are on opposite axial ends of the latch piston portion **111**.

In operation, the scope adapter **100** is attached to a scope **50** and is disposed on the scope **50** such that the first scope adapter end portion **105** is facing in the direction of the user of the gun and the second scope adapter end portion **106** is facing in the direction of the barrel of the gun. The lower scope adapter portion **102** is abutting the top portion **51** of the scope **50**. The ramped blade **300** is placed in the ramped blade aperture **108**. Upon placement of the ramped blade **300** in the ramped blade aperture **108**, the red sight adapter **200** is at an angle to the scope adapter **100** (the sides of the red dot sight adapter **200** and scope adapter **100** are angled and are not aligned nor somewhat parallel). When the red dot adapter **200** is rotated, one of its corners **230** engages the locking block **500** and the ramped blade **300** slides within the circular fossa **114**. As the red dot adapter **200** is rotated, the spring **405** in the spring loaded latch piston **400** is stretched and the locking block **500** is pushed back and away from the latch piston portion **110**. As the red dot adapter **200** is further rotated, the corner **230** of the red dot sight adapter **200** passes past the locking lock **500**. In the alternative, to create the same effect the handle portion **402** may be pushed and the locking block **500** moves away from the latch piston portion **110** to allow rotation of the red dot sight adapter **200**. After the corner **230** passes by the locking block **500**, the spring **405** of the spring loaded latch piston **400** contracts and the locking block **500** is pulled to abut the latch piston portion **110**. The red dot adapter **200** is locked into place by the locking block **500** and the extension tab **202**. When the quick release gun sight adapter **10** is in the locked position, the locking block **500** and the extension tab **200** are disposed on opposite sides of the red dot sight adapter **200**. To unlock the red dot adapter **200**, depress the handle portion **402** of the spring loaded latch piston **400**, which pushes the locking block **500** past the red sot sight adapter **200**, allowing the red dot sight adapter **200** to be rotated such the ramped blade **300** and ramped blade aperture **108** are lined up so that the red dot sight adapter **200** may be removed.

When introducing elements of the present invention or the preferred embodiment(s) thereof, the articles "a," "an," "the," and "said" are intended to mean there are one or more of the elements. The terms "comprising," "including," and "having" are intended to be inclusive and mean that there may be additional elements other than the listed elements.

Although the present invention has been described in considerable detail with reference to certain preferred versions thereof, other versions are possible. Therefore, the spirit and scope of the appended claims should not be limited to the description of the preferred versions contained herein.

What is claimed is:

1. A quick release gun sight adapter, comprising:
- a scope adapter, the scope adapter attachable to a scope, the scope attachable to a gun;
- a red dot sight adapter, the red dot sight adapter attachable to a red dot sight;
- a locking block;
- a spring loaded latch piston, the piston communicating with the locking block such that a latch is created, the latch communicating with the scope adapter; and
- a spring loaded ramped blade, the ramped blade attached to the red dot sight adapter, the ramped blade rotatably attachable to the scope adapter, the scope adapter rotatably adapted to hold the ramped blade such that when the ramped blade is disposed within the scope adapter and the ramped blade and the red dot sight adapter are rotated the ramped blade engages the locking block to open the latch and when the ramped blade is further rotated the locking blade is engaged to close the latch and lock the ramped blade into place, when actuated the piston opens the latch such that the ramped blade and the red dot sight adapter may be rotated and unattached from the scope adapter.

2. A quick release gun sight adapter, comprising:
- a scope adapter, the scope adapter attachable to a scope, the scope attachable to a gun;
- a red dot sight adapter, the red dot sight adapter attachable to a red dot sight;
- a locking block;
- a spring loaded ramped blade, the ramped blade attached to the red dot sight adapter, the ramped blade rotatably attachable to the scope adapter, the scope adapter rotatably adapted to hold the ramped blade such that when the ramped blade and the red dot sight adapter are rotated the ramped blade engages the locking block and when the ramped blade is further rotated the locking blade locks the ramped blade into place; and,
- a spring loaded latch piston, the piston communicating with the locking block such that when actuated the piston engages the locking block such that the ramped blade and the red dot sight adapter may be rotated and unattached from the scope adapter.

3. The quick release gun sight adapter of claim **2**, wherein the scope adapter has a lower scope adapter portion, the lower scope adapter portion is configured to correspond to a top portion of the scope.

4. The quick release gun sight adapter of claim **3**, wherein the scope adapter includes a circular portion, the circular portion corresponding to a top portion of a lens of the scope.

5. The quick release gun sight adapter of claim **4**, wherein the scope adapter includes a semicircular cutout, the semicircular cutout corresponding to an elevation adjusting knob of the scope.

6. The quick release gun sight adapter of claim **5**, wherein the scope adapter includes locking apertures for fasteners to attach the scope adapter to the scope.

7. The quick release gun sight adapter of claim 6, wherein the semicircular cutout and the circular portion are spaced at about ninety degrees from each other.

8. The quick release gun sight adapter of claim 7, wherein the scope adapter includes a ramped blade aperture, the ramped blade aperture corresponding to the spring loaded ramped blade.

9. The quick release gun sight adapter of claim 8, wherein the ramped blade aperture and the spring loaded ramped blade are in the shape of a rectangle with a circle disposed at about the middle of the rectangle.

10. A quick release gun sight adapter, comprising:

a scope adapter, the scope adapter attachable to a scope, the scope attachable to a gun, the scope adapter has a lower scope adapter portion, a circular portion, a semicircular cutout, locking apertures, a back up iron sight groove and a ramped blade aperture, the circular portion corresponding to a top portion of a lens of the scope, the semicircular cutout corresponding to an elevation adjusting knob of the scope, the semicircular cutout and the circular portion are spaced at about ninety degrees from each other, the locking apertures corresponding to fasteners that attach the scope adapter to the scope, the backup iron sight groove corresponding to a back up iron sight;

a red dot sight adapter, the red dot sight adapter attachable to a red dot sight, the red dot sight adapter including an extension tab;

a locking block;

a spring loaded ramped blade, the ramped blade aperture corresponding to the ramped blade, the ramped blade attached to the red dot sight adapter, the ramped blade rotatably attachable to the scope adapter via the ramped blade adapter, the scope adapter rotatably adapted to hold the ramped blade such that when the ramped blade is disposed within the ramped blade aperture and the ramped blade and the red dot sight adapter are rotated the red dot sight adapter engages the locking block and when the ramped blade is further rotated the locking blade and the extension tab lock the ramped blade and the red dot sight adapter into place; and,

a spring loaded latch piston, the piston communicating with the locking block such that when actuated the piston engages the locking block such that the ramped blade and the red dot sight adapter may be rotated and detached from the scope adapter.

11. The quick release gun sight adapter of claim 10, wherein the scope adapter includes a circular fossa, the circular fossa having a diameter corresponding to the ramped blade and the ramped blade aperture, the ramped blade rotatable within the circular fossa.

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