



WhiteWood Innovations Firearm Locking System

Product Brief

U.S. Patent # 11,971,232

U.S. Patent # 11,906,258

WhiteWood Innovations

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Product Brief

“Firearm Locking System”

Executive Summary

The Firearm Locking System is a patented safety device that secures magazine-fed rifles and handguns by locking them to a fixed surface and rendering them inoperable when not in use. It combines a specially designed Locking Magazine with a heavy-duty Locking Magazine Base and a high-security padlock to block the firearm's chamber and prevent unauthorized removal. Even when the system is not mounted to a secure surface, the locking mechanism prevents the firearm from being fired and is highly resistant to tampering, adding an extra layer of security during transport, storage, or display.

This system offers retailers a compact, affordable, and easy-to-understand firearm storage solution that promotes responsible gun ownership and child access prevention while complementing existing gun safes and cable locks. Designed for both residential and commercial environments, the system can be mounted to wall studs, display racks, or bedside furniture, giving dealers and end users flexible installation options without the footprint or expense of a traditional safe. Its intuitive operation requires minimal training for sales staff or customers, making it an attractive add-on product for firearm retailers, ranges, and security-focused distributors who want to expand their safety offerings and differentiate their

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Introduction

Why This Product Matters for Retailers

The firearm safety market is experiencing significant growth driven by increased awareness of safe storage requirements, state and local legislation, and consumer demand for responsible ownership solutions. Big-box retailers are uniquely positioned to serve this market by offering accessible, competitively priced safety products that complement existing firearm and home security offerings.

The WhiteWood Innovations Firearm Locking System fills a critical gap between basic trigger locks (\$10-\$25) and full-size gun safes (\$300-\$2,000+), providing robust security at an attractive \$160 retail price point. This positions it as an ideal impulse purchase or complementary product for customers buying firearms, ammunition, or home security systems.

Product Overview

The WhiteWood Innovations Firearm Locking System addresses a critical need in firearm safety: secure storage that maintains quick access for authorized users. The system features two primary components working in concert:

- **Locking Magazine (LM)** - A modified magazine housing with an internal pivoting rod assembly
- **Locking Magazine Base (LMB)** - A multi-branched hardened steel mounting plate with integrated lock protection

When engaged, the Locking Magazine inserts into the firearm's magazine well, with the pivoting rod extending into the barrel's chamber on one end and locking onto the Locking Magazine Base on the other. This creates a robust physical barrier that renders the firearm inoperable while securing it to a fixed location.

The system is designed for rifles (AR-15, AR-10, and other magazine-fed platforms) and handguns (Glock, 1911, and other magazine-fed pistols), with each firearm type requiring a purpose-designed Locking Magazine to ensure proper fit and function.

Retail Advantages

- **Multiple SKUs:** Different models for popular firearm platforms create multiple revenue opportunities
- **Shelf-Stable:** Compact packaging, no special storage requirements

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- **Easy Merchandising:** Display-friendly design demonstrates value visually
 - **Cross-Department Appeal:** Fits in sporting goods, home security, or hardware sections
 - **Compliance Support:** Helps retailers meet safe storage display requirements
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System Components

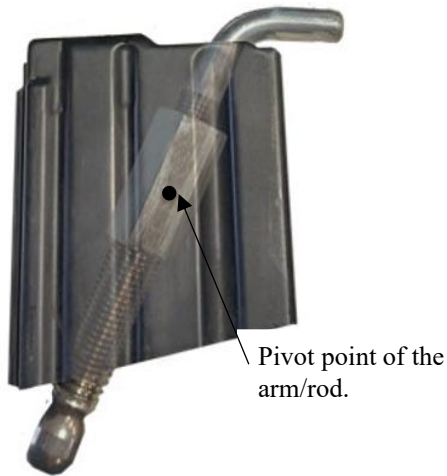


Figure 1: See-through AR-15 Locking Magazine showing internal pivoting arm in locked position.

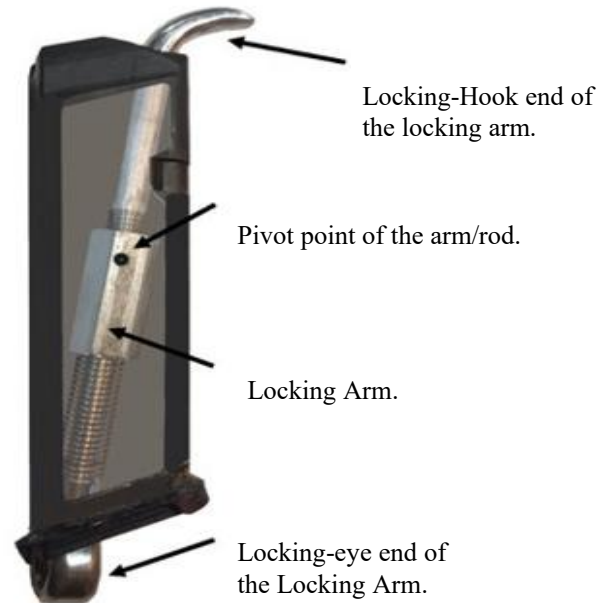


Figure 2: See-through Glock *Locking Magazine* showing the internal pivoting arm. The arm/rod would be in its locked position.

Locking Magazine

The Locking Magazine serves as the primary interface between the firearm and the securing system.

Key Design Features:

- Open-ended magazine body manufactured from durable metal, custom-fitted for specific firearm models
- Centrally-mounted pivoting arm with smooth, rounded tip designed to enter the firearm's chamber
- Locking eye (eyebolt) at base of pivoting arm for securing to the Magazine Base
- Firearm-specific dimensions - each model requires dedicated tooling (AR-15 .223 Remington differs from AR-10 .308 Winchester, etc.)

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Operational Mechanism:

The pivoting arm rotates on a central pivot point. When activated, the rounded chamber-entry end pivots upward into the firearm's barrel while the locking eye extends downward through the Magazine Base, where it is secured with a high-security padlock.

Locking Magazine Base

The Locking Magazine Base provides the structural anchor point and incorporates multiple security features.

Key Design Features:

- Multi-limbed construction minimizes exposed areas around the padlock, reducing vulnerability to cutting attacks
- Hardened steel construction (recommended) for enhanced cut resistance
- Mounting holes compatible with wall studs using star-drive lag screws
- Extended backing plate (on AR platforms) that blocks access to takedown pins, preventing disassembly
- Protective protrusions that shield the padlock from cutting tools
- Partial insertion into the open end of the Locking Magazine to maintain alignment and prevent separation

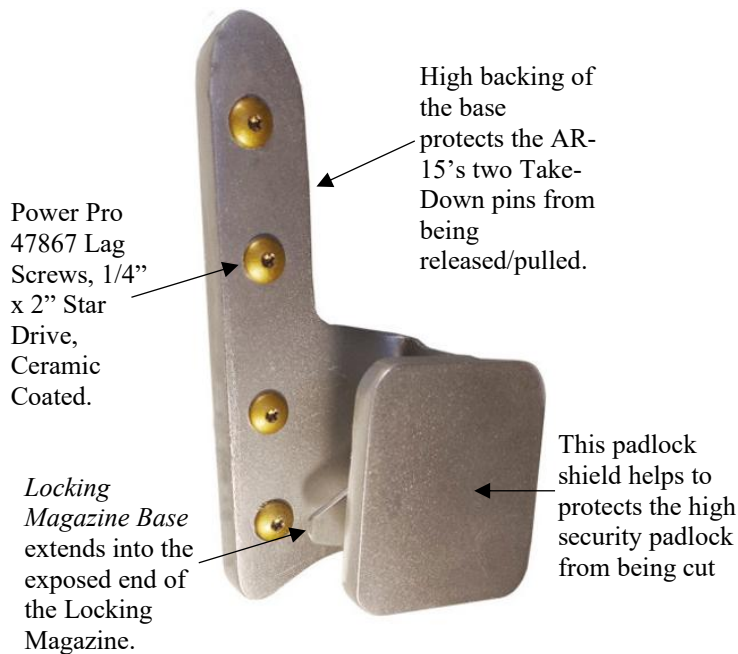


Figure 3: AR-15 Locking Magazine Base showing the unit with Star Drive Lag Screws

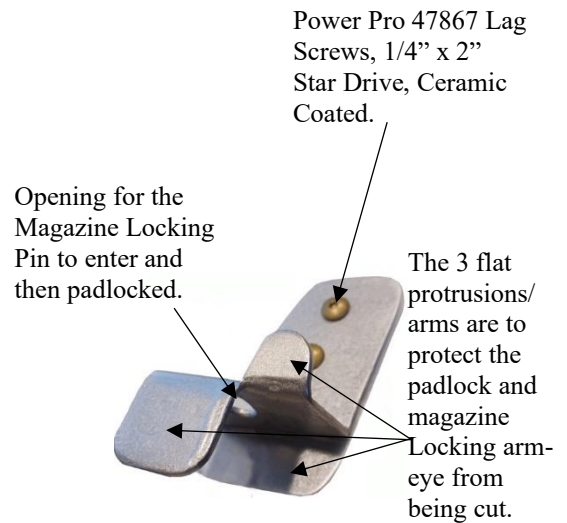


Figure 4: Glock Locking Magazine Base showing the unit with Star Drive Lag Screws.

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Platform-Specific Variations:

- **AR-15/AR-10 Base:** Extended rear plate with mounting holes for 2x4 wall studs; high backing protects receiver takedown pins
- **Handgun Base:** Compact design suitable for bedside table or wall mounting with protective protrusions around padlock opening

Recommended Hardware:

- Power Pro 47867 Star Drive Lag Screws (1/4" x 2", ceramic coated) for mounting
- High-security shrouded padlock with pick-resistant cylinder

Recommended High-Security Padlock:

- KAWAHA Shrouded Stainless
- SUS304 stainless steel (anti-corrosion, waterproof).
- Shrouded design + double-ball locking (anti-cut, 4-ton pull resistance).
- Pick-resistant disc cylinder; key removal only when locked.



Figure 5: KAWAHA high security padlock.

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Locking Process

The locking procedure is straightforward and can be completed in seconds. The process is essentially identical for rifles and handguns.

Step-by-Step Procedure

1. **Insert Locking Magazine:** Place the Locking Magazine into the firearm's magazine well until fully seated
2. **Pivot Locking Arm:** Pull the pivoting arm rearward, causing the rounded tip to enter the firearm's chamber
3. **Engage Magazine Base:** Insert the secured firearm (with Locking Magazine installed) into the Locking Magazine Base
4. **Lock System:** Insert high-security padlock through the locking eye and Magazine Base, then secure

Unlocking Procedure

1. Remove padlock using key
2. Lift firearm from Magazine Base
3. Pivot locking arm forward to withdraw from chamber
4. Remove Locking Magazine from magazine well
5. Firearm is now ready for normal operation
6. The entire locking or unlocking process takes less than 15 seconds with practice, providing security without sacrificing accessibility.

The entire process either locking or unlocking with a little practice takes less than 15 seconds, providing security without sacrificing accessibility.

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A Brief Look: AR-15 Example



Figure 6: Locking Magazine in position to be inserted into the rifle's magazine well.



Figure 7: Locking Magazine is partially inserted into the rifle's magazine well.



Figure 8: Locking Magazine inserted into the rifle's magazine well and the Pivot Locking Arm is shown pivoted into the rifle's barrel.



Figure 9: Locking Magazine is in position to be inserted into the Locking Magazine Base



Figure 10: Locking Magazine is now mated with the Locking Magazine Base and is ready to be pad-locked in place.



Figure 11: Rifle is now locked in place in the Firearm Locking System.

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A Brief Look: Glock-Type Handgun

Locking the Pistol: The pistol is locked in the exact same manner as the AR-15 pictured above. The pictures below show the various steps in locking the pistol.



Figure 12. The *Locking Magazine* is ready to insert into the pistol’s magazine well.



Figure 13. The *Locking Magazine* inserted and locked into the barrel by the pivoting arm.



Figure 14. The *Locking Magazine* inserted into the Magazine Locking Base.



Figure 15. The *Locking Magazine* locked on the *Locking Magazine Base* with the pad lock.



Figure 16. A different view showing the locked reverse side of the handgun.

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Product Features and Benefits

Security Features

- **Multi-Point Engagement:** Locking arm penetrates barrel chamber while base secures to fixed mounting point.
- **Tamper Resistance:** Attempts to forcibly remove the system will damage the firearm before defeating the lock.
- **Protected Padlock:** Multi-limbed base design and hardened steel construction shield the lock from cutting tools.
- **Disassembly Prevention:** AR platform bases block access to takedown pins, preventing upper/lower receiver separation.
- **Fixed Installation:** Wall-mounted systems prevent removal of the entire firearm from premises.

Practical Advantages

- **Flexible Mounting:** Install at any desired location - bedroom, closet, vehicle, office.
- **Quick Access:** Authorized users can unlock and ready firearm in under 15 seconds.
- **Cost-Effective:** Significantly less expensive than gun safes while providing effective security.
- **Lightweight:** No heavy safe to move or install.
- **Scalable Security:** Secure multiple firearms at different locations with individual units.
- **Compliance Assistance:** Helps gun owners meet safe storage requirements and best practices.

Target Applications

Consumer Use Cases:

- Home defense firearms requiring quick access with child safety
- Rental properties or shared living spaces
- Vehicle-mounted firearm security
- Supplemental security for gun safe owners (additional locations)
- Temporary housing

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Commercial and Institutional Use Cases:

- Retail display and storage security
 - Law enforcement and security applications
 - Gun ranges and training facilities
 - Military armory applications
 - Hotel and hospitality security programs
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Materials and Manufacturing

Bill of Materials

Component	Material/Specification	Notes
Locking Magazine Body	Modified firearm magazine	Firearm-specific
Pivoting Arm Assembly	Steel (3-piece or CNC machined)	Heat-treated
Locking Magazine Base	Hardened steel plate	Post-machining hardening
Lag Screws	Star Drive 1/4" x 2" ceramic coated	Power Pro 47867
Pivot Pins	Steel pins	Standard sizes
High-Security Padlock	Shrouded, pick-resistant	Not included

Table 1: Primary components and materials

Manufacturing Considerations

- Magazine body modification requires firearm-specific tooling
- Pivoting arm can be fabricated as 3-piece assembly or single CNC-machined component
- Steel base plates require machining followed by hardening process
- Quality control critical for proper firearm fit and smooth operation
- Packaging should include installation hardware and clear instructions

Estimated Production Cost

\$50 per unit (estimated, based on moderate production volumes)

This cost estimate assumes:

- Contract manufacturing with established metalworking facilities
- Production runs of 500+ units per firearm model
- Standard industrial materials and processes
- Does not include padlock (sold separately or as package option)

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Distribution Channels

The United States firearm accessories market offers extensive distribution infrastructure with over 1 million potential outlets.

Primary Distribution Channels

Channel Type	Number of Outlets
Specialized Firearms Distributors	3,436
Sporting Goods Stores	4,523
General Retail Stores	1,060,000
Total Potential Outlets	1,067,959

Table 2: United States distribution infrastructure

Big-Box Retail Fit

This product is specifically suited for major home improvement and general merchandise retailers:

Home Depot, Lowe's, Menards:

- Fits existing hardware and security product categories
- Requires no special licensing or permits to sell (locking device, not firearm)
- Appeals to homeowners seeking home security solutions
- Cross-sells with safes, locks, and home security products
- Wall-mounting aspect aligns with DIY home improvement focus

Walmart, Target, Academy Sports:

- Complements existing sporting goods departments
- Addresses growing consumer demand for safety products
- Supports corporate responsibility initiatives around firearm safety
- Compact packaging suitable for shelf or endcap display
- Price point enables impulse purchases and gift giving

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Direct Marketing Opportunities

- Industry trade shows (SHOT Show, NRA Annual Meetings, etc.)
- Trade magazine advertising (Guns & Ammo, Shooting Illustrated, American Rifleman)
- Direct mail campaigns to shooting clubs and ranges
- Online marketplaces (Amazon, OpticsPlanet, Brownells)
- Manufacturer direct-to-consumer website
- Catalog sales through established firearms retailers

Strategic Partnerships

Potential collaboration opportunities exist with:

- Firearm manufacturers (co-branding, OEM packages)
 - Gun safe and security companies (complementary product lines)
 - Law enforcement supply companies
 - Home security system providers
 - Big-box retailers (private label or exclusive distribution)
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Market Analysis and Financial Projections

Market Opportunity

Total Addressable Market: 81.4 million-gun owners in the United States
The firearm safety and storage market continues to grow, driven by:

- Increasing awareness of safe storage practices
- State and local safe storage legislation (especially in CA, WA, OR, CO, MA, NY)
- Parental concern for child safety
- Insurance incentives and liability concerns for secure storage
- Growth in first-time gun ownership (9.3 million in 2020-2021)
- Retail compliance with federal safe storage display requirements

Retail Category Growth

The gun lock and safety device category has experienced significant growth:

- Gun lock market estimated at \$180 million annually (U.S.)
- Growing 8-12% year-over-year driven by legislation
- Big-box retailers increasingly dedicating shelf space to safety products
- Premium products (\$100+) showing strongest growth in category

Pricing Strategy

Price Point	Amount
Manufacturing Cost	\$50.00
Wholesale Price	\$120.00
Retail Price	\$160.00
Wholesale Margin	140%
Retail Margin	33%
Total Margin (Retail - Cost)	220%

Table 3: Pricing structure per unit

This pricing positions the product as a premium security solution while remaining significantly less expensive than gun safes (\$300-\$2,000+).

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Conservative Market Penetration Projections

The following projections assume capturing just 0.1% of the gun owner market in Year 1, with modest growth thereafter.

Year	Units	Growth	Wholesale Revenue	Retail Revenue
1	81,400	--	\$9,768,000	\$13,024,000
2	101,750	25%	\$12,210,000	\$16,280,000
3	127,188	25%	\$15,262,560	\$20,350,080

Table 4: Three-year unit sales and revenue projections

Corrected Financial Projections - Detailed Analysis

Year	Units	Total Cost	Wholesale	Retail	Gross Profit
1	81,400	\$4,070,000	\$9,768,000	\$13,024,000	\$8,954,000
2	101,750	\$5,087,500	\$12,210,000	\$16,280,000	\$11,192,500
3	127,188	\$6,359,400	\$15,262,560	\$20,350,080	\$13,990,680

Table 5: Three-year gross profit projections (retail basis)

Note on Calculations: Year 3 projections in the original document contained errors. Corrected calculations:

- Year 3 Units: 127,188 ($101,750 \times 1.25$)
- Year 3 Total Cost: \$6,359,400 ($127,188 \times \50)
- Year 3 Wholesale Revenue: \$15,262,560 ($127,188 \times \120)
- Year 3 Retail Revenue: \$20,350,080 ($127,188 \times \160)
- Year 3 Gross Profit: \$13,990,680 ($\$20,350,080 - \$6,359,400$)

Key Assumptions

- Market penetration of 0.1% in Year 1 (extremely conservative)
- Annual growth rate of 25% in Years 2 and 3
- Stable manufacturing cost of \$50/unit across all years
- Pricing remains constant (no promotions or discounts factored)
- Projections based on single-unit retail packages
- Multi-unit packages and bulk sales would increase average transaction value

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Market Penetration Context

Even capturing 0.1% of gun owners represents significant success. For perspective:

- 0.1% penetration = 81,400 units
- 0.5% penetration = 407,000 units
- 1.0% penetration = 814,000 units

Given the unique value proposition and absence of direct competitors, actual market penetration could significantly exceed these conservative projections.

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Intellectual Property

Patent Protection

United States Utility Patent No. 11,906,258

- Filed: November 15, 2023
- Issued: February 20, 2024
- Expires: November 2037
- Claims: 20 claims protecting design and function

United States Utility Patent No. 11,971,232

- Filed: January 26, 2024
- Issued: April 30, 2024
- Expires: January 2038
- Claims: 15 claims protecting design and function

Patent Scope

The combined 35 claims across both patents provide comprehensive protection for:

- The pivoting arm mechanism and its integration with magazine housing
- The multi-limbed Magazine Base design and locking interface
- The method of securing firearms using magazine well engagement
- Specific design elements that prevent unauthorized access
- The overall system architecture and component interaction

This dual-patent strategy creates robust barriers to competitive imitation and establishes clear intellectual property ownership.

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“Firearm Locking System”

Patent Holder Background

Dr. Claude L. Woodard Jr., DVM

Lieutenant Colonel, U.S. Army (Retired)

Dr. Woodard is a retired U.S. Army veterinarian with extensive experience in animal care and medical research. After earning his Doctor of Veterinary Medicine degree, he served his country for many years, providing critical veterinary services and conducting medical research in support of military operations.

Throughout his military career, Dr. Woodard developed a deep appreciation for safety protocols and responsible equipment management. This foundation, combined with his problem-solving skills and technical aptitude, led him to identify a gap in the firearm security market and develop the WhiteWood Innovations Firearm Locking System.

Dr. Woodard's invention is designed to enhance firearm safety by providing an accessible yet secure storage solution, reducing the risk of accidents, unauthorized use, and theft. His commitment to responsible gun ownership and public safety drives the continued development and commercialization of this innovative technology.

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Summary and Next Steps

The WhiteWood Innovations Firearm Locking System represents a significant advancement in firearm security technology. Protected by two utility patents with 35 combined claims, this system offers:

- Superior security compared to trigger locks and cable locks
 - Quick access for authorized users (under 15 seconds)
 - Cost-effective alternative to gun safes
 - Flexible installation options
 - Tamper-resistant design
 - Scalable solution for single or multiple firearms
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Business Opportunity

We are seeking partnerships with established retailers and distributors to bring this patented technology to market. Partnership opportunities include:

For Big-Box Retailers (Home Depot, Lowe's, Menards, Walmart, etc.):

- Exclusive or preferred retail distribution agreements
- Private label development with co-branding opportunities
- Volume purchase arrangements with favorable pricing
- Marketing support including in-store displays and demonstrations
- Point-of-sale materials and staff training resources

For Manufacturers and Distributors:

- License the intellectual property rights
- Manufacture the system to specification
- Market and distribute through existing channels
- Develop additional firearm platform variations (shotguns, other rifle platforms)

What We Bring to the Partnership

- Two utility patents with 35 combined claims (protection through 2037-2038)
- Proven product design with functional prototypes
- Market research and financial projections
- Established cost structure and manufacturing specifications
- Commitment to product quality and customer safety
- Inventor availability for product demonstrations and technical support

What We Seek in a Partner

- Manufacturing capabilities or established vendor relationships
 - Distribution network in sporting goods, hardware, or home security markets
 - Established relationships with big-box retailers
 - Marketing expertise in consumer products
 - Financial resources for initial production and market launch
 - Commitment to product quality and responsible firearm safety
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“Firearm Locking System”

Contact Information

For additional information, partnership inquiries, or to schedule a product demonstration:

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Confidentiality Notice

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WhiteWood Innovations - Securing Firearms Responsibly

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Miscellaneous:



US011906258B1

(12) **United States Patent**
Woodard

(10) **Patent No.:** US 11,906,258 B1
(45) **Date of Patent:** Feb. 20, 2024

(54) **FIREARM LOCKING SYSTEM**

(71) Applicant: **Claude L. Woodard**, Omaha, NE (US)

(72) Inventor: **Claude L. Woodard**, Omaha, NE (US)

(*) 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.: **18/510,225**

(22) Filed: **Nov. 15, 2023**

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F41A 17/44 (2006.01)

(52) **U.S. Cl.**
CPC *F41A 17/44* (2013.01)

(58) **Field of Classification Search**
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See application file for complete search history.

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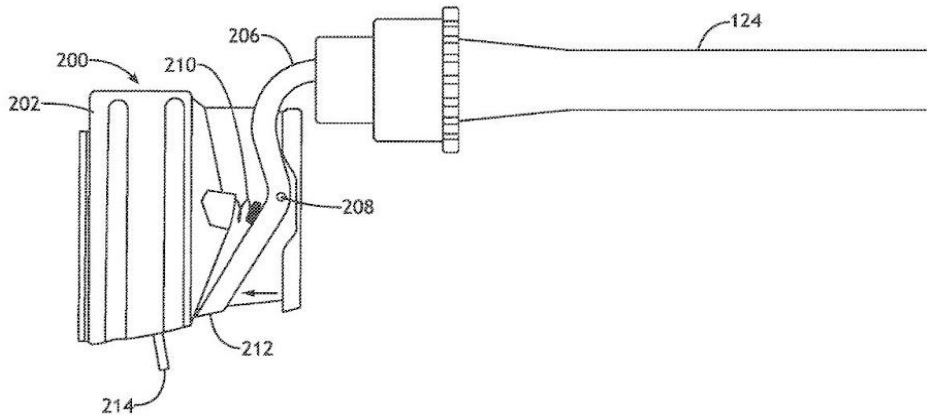
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Faisal K. Abou-Nasr

(57) **ABSTRACT**

A firearm locking system includes a magazine plug assembly and a locking bracket. The magazine plug assembly has an outer body configured to fit within a magazine well of a firearm and includes a locking plate and a locking mechanism both partially contained within the outer body. The locking mechanism includes a locking bar configured to partially extend into a barrel of the firearm when an actuable end of the locking bar is pressed upon by a base panel of the locking bracket. This action occurs when the locking bracket is secured to the base of the magazine plug assembly by inserting an external portion of the locking plate into a cooperatively sized slot within the locking bracket and then inserting a padlock shackle into an opening within the external portion of the locking plate.

20 Claims, 12 Drawing Sheets



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(12) **United States Patent**
Woodard

(10) **Patent No.:** **US 11,971,232 B1**
(45) **Date of Patent:** **Apr. 30, 2024**

(54) **FIREARM LOCKING SYSTEM**

(71) Applicant: **Claude L. Woodard**, Omaha, NE (US)

(72) Inventor: **Claude L. Woodard**, Omaha, NE (US)

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(21) Appl. No.: **18/423,909**

(22) Filed: **Jan. 26, 2024**

Related U.S. Application Data

(63) Continuation-in-part of application No. 18/510,225, filed on Nov. 15, 2023, now Pat. No. 11,906,258.

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(52) **U.S. Cl.**
CPC **F41A 17/44** (2013.01)

(58) **Field of Classification Search**
CPC F41A 17/34; F41A 17/36; F41A 17/38;
F41A 17/44
See application file for complete search history.

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A firearm locking system includes a magazine plug assembly and a locking bracket. The magazine plug assembly has an outer body configured to fit within a magazine well of a firearm and includes a locking mechanism partially contained within the outer body. The locking mechanism includes a locking bar configured to partially extend into a barrel of the firearm when an actuatable end of the locking bar is pivoted from an unlatched position to a latched position. The locking bar is then held in the latched position by a locking bracket that is secured to the base of the magazine plug assembly by inserting the actuatable end of the locking bar into a cooperatively sized slot within the locking bracket and then inserting a padlock shackle into an opening within the actuatable end of the locking bar.

15 Claims, 15 Drawing Sheets

