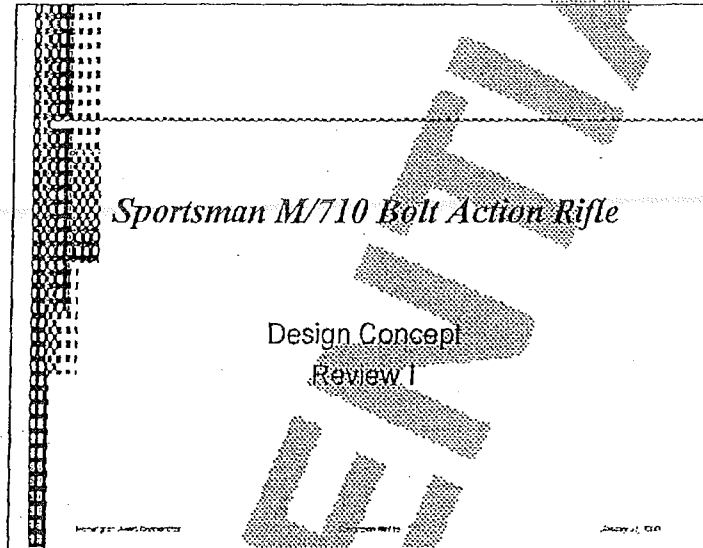
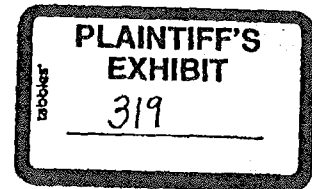




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to Protective Order - Williams v. Remington



1



ETE00021301

Sportsman Model 710
Concept Review Agenda

▢ Review Program Objectives, Design Goals, Status and Schedule	_____ Danny Diaz
▢ Review Two piece Stock Concept	_____ Derek Watkins
▢ Review One piece Stock Concept	_____ Derel Watkins
▢ Collect and Record Input	_____ Team
▢ Review Conclusions	_____ Danny Diaz

Form 301, June 2004/05 SPORTSMAN M710 Drawn by: EEP

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2

Sportsman M/710
Program Objectives

- ☐ Design and Manufacture a low end bolt action rifle with the highest possible profit margin.
- ☐ Enter the market in year 2000.
- ☐ Sound aesthetics
- ☐ Performance equal to or exceeding competitors similar offerings.
 - ✓ Savage 111, Marlin MR-7, and Winchester 70

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3

Sportsman M/710 Marketing Specifications

- ☐ Bolt action - short & long action (including magnums)
- ☐ Standard barrels lengths (22" - 24")
- ☐ Synthetic stock with recoil pad & swivel studs
- ☐ Wood stock added in the future based on investment & stock cost
- ☐ Floor-plate or detachable box magazine (lowest cost)
- ☐ Reasonable bolt action grade trigger (comparable to competitive products)
- ☐ Inexpensive metal finish (uniform without wear rings)
- ☐ Inexpensive adjustable sights to 1000 yds
- ☐ Accepts after-market scope bases (bases not included with gun)
- ☐ MSP \$229 (non-magnum synthetic)
- ☐ NSP \$188 (non-magnum synthetic)
- ☐ Target Margin 45% (non-magnum synthetic)
- ☐ Target manufacturing cost \$103 (non-magnum synthetic)

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Sportsman M/710
Design Alternatives

☐ Modify current line (i.e. M/700)

- ✓ Pro's
 - as a company we have a large expertise base
 - large number of parts
 - known and accepted performance characteristics
- ✓ Con's
 - limited design changes
 - limited changes to current processes
 - tolerances sensitive

Revised 2/1/99

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Sportsman M/710 Design Alternatives

☐ New design

✓ Pro's

- design for ease of manufacture
- reduction in component number and complexity
- designed for possible use new state-of-art processes
- incorporate tolerance insensitive design of components
- drop out firecontrol

✓ Con's

- new unknown design; new firecontrol; cast receiver
- lack of expertise with possible new processes
- new stock design

Image of 17. James Chamberlain

Image of 17. James Chamberlain

Image of 17. James Chamberlain

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Sportsman M/710
Design Objective

- ✓ design a high margin quality centerfire rifle family.
- ✓ simple innovative design
 - user friendly
 - reliable, robust, and durable design
- ✓ easy to manufacture, eliminate costly process
- ✓ designed to accept new cost effective state-of-art process
 - high speed machining, forging, semi-solid forming, and new assembly technologies
- ✓ share a common backbone of parts.
- ✓ performance bench mark - M/700

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Sportsman M/710 Design Path

✓ Design Concepts

→ Two piece stock

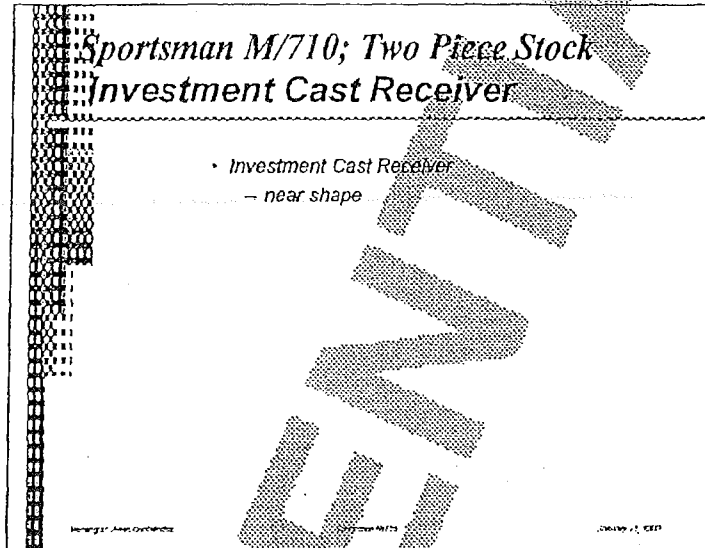
- synthetic two piece stock
- investment Cast Receiver
- unidiameter Bolt
- synthetic trigger guard/housing
- Clamped barrel

→ One piece stock

- Synthetic or wood
- Extruded Tube Receiver
- conventional trigger housing
- threaded barrel
- metal clip

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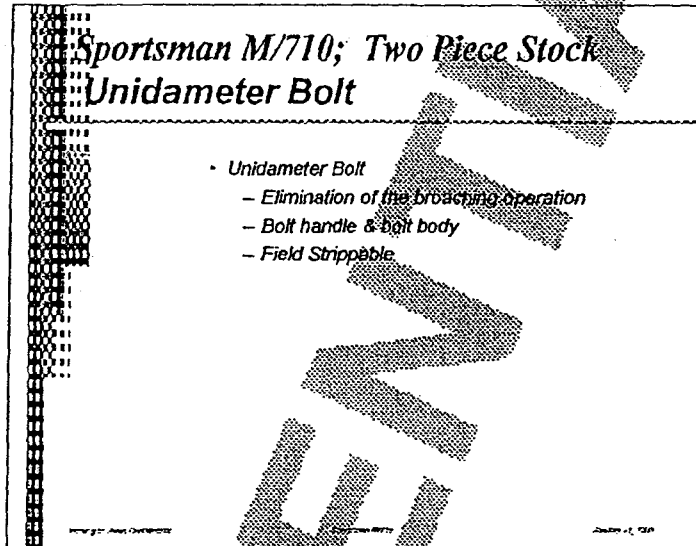


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- Synthetic trigger guard housing
 - modular
- Safety
- Tang - three (3) positions

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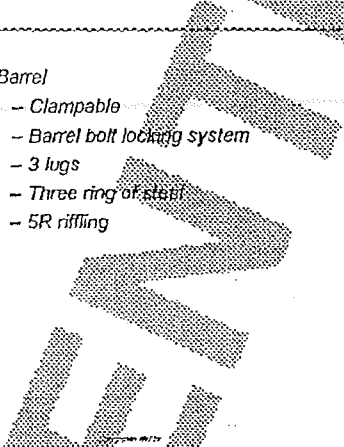
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Sportsman M/710; Two Piece Stock
Barrel

- Barrel
 - Clampable
 - Barrel bolt locking system
 - 3 lugs
 - Three ring of steel
 - 5R riffling

© 1997 Bushnell Firearms Corporation

- 
- Sportsman M/710; Two Piece Stock*
Barrel
- Barrel
 - Clampable
 - Barrel bolt locking system
 - 3 lugs
 - Three ring of steel
 - 5R riffling
- © 1997 Bushnell Firearms Corporation

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*Sportsman M/710; Two Piece Stock
FireControl & Magazine*

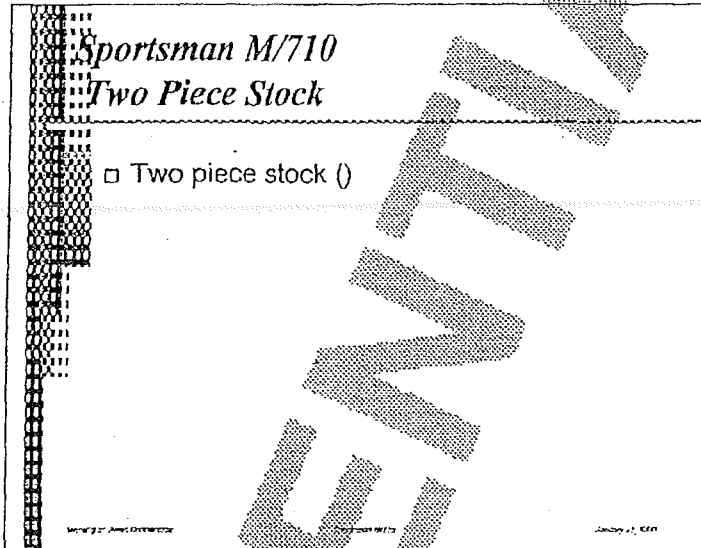
- Fire Control
 - Linkage system
 - Tolerance insensitive
 - Lock Time 4ms
 - Minimum cocking forces
- Magazine
 - Synthetic clip

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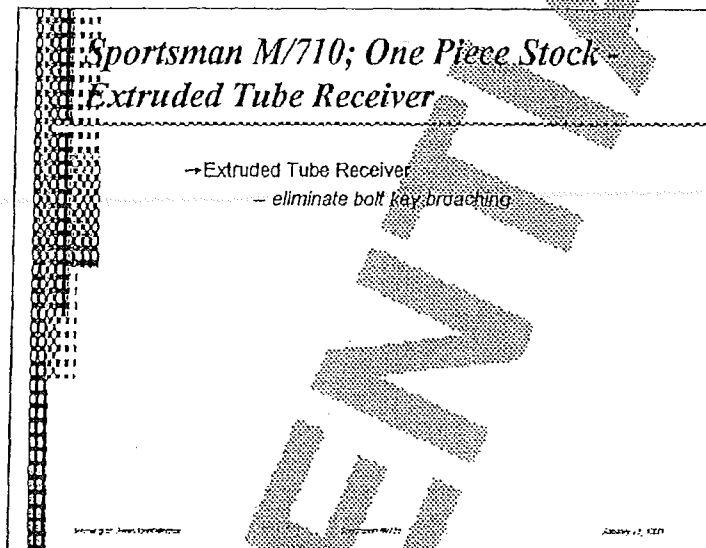
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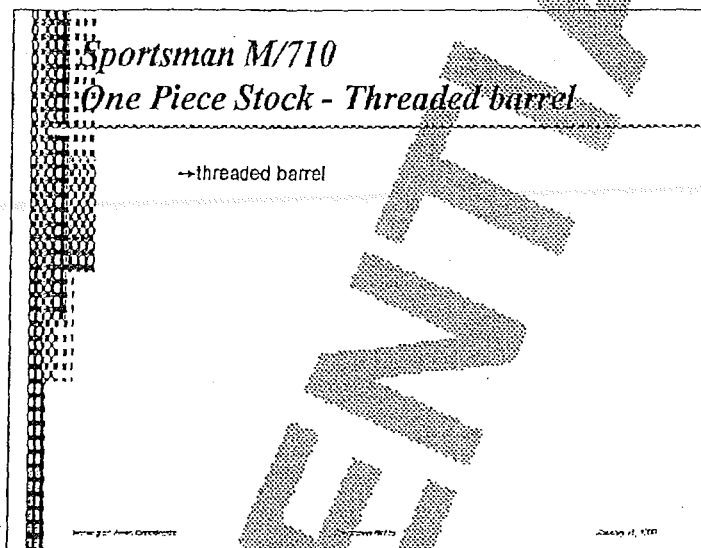


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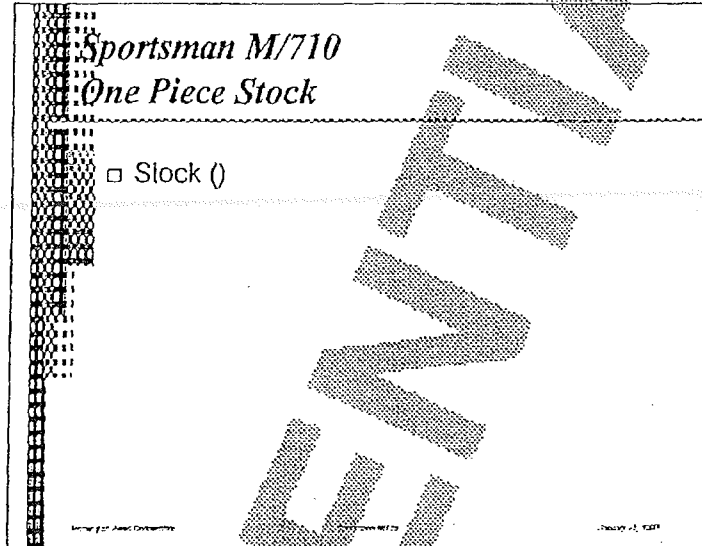


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