

SUBJECT FOR INDEXING THIS BOOK
MUST BE GIVEN BELOW

A

M-700 Fire Control Design Page 1 -

M-700 Boat Cock Page 3 - 6

M-700 - M-7 Scope Mounts Page 20

M-700 Rear Light - Page 10

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PLAINTIFF'S
EXHIBIT

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SUBJECT OF EXPT.

14 JAN 1980

M-200 FIRE CONTROL DESIGN

1

As of this date the first model of the "new style" M-200 fire control has been assembled. The design requirements of this fire control to incorporate the following -
a trigger block $\neq$ sear block,
a bolt lock $\neq$ have an interceptor,
^{EXTERNAL} be adjustable $\neq$ operate in both
the fired and unfired condition -

have not all been met. Possibly in subsequent models.

This Model has a separate bolt lock and does not block the trigger in the on safe position.

The sear can be blocked in both positions by putting the safety on.

This is done by a finger of the safety engaging one of two notches in the side of the sear (See Next Page).

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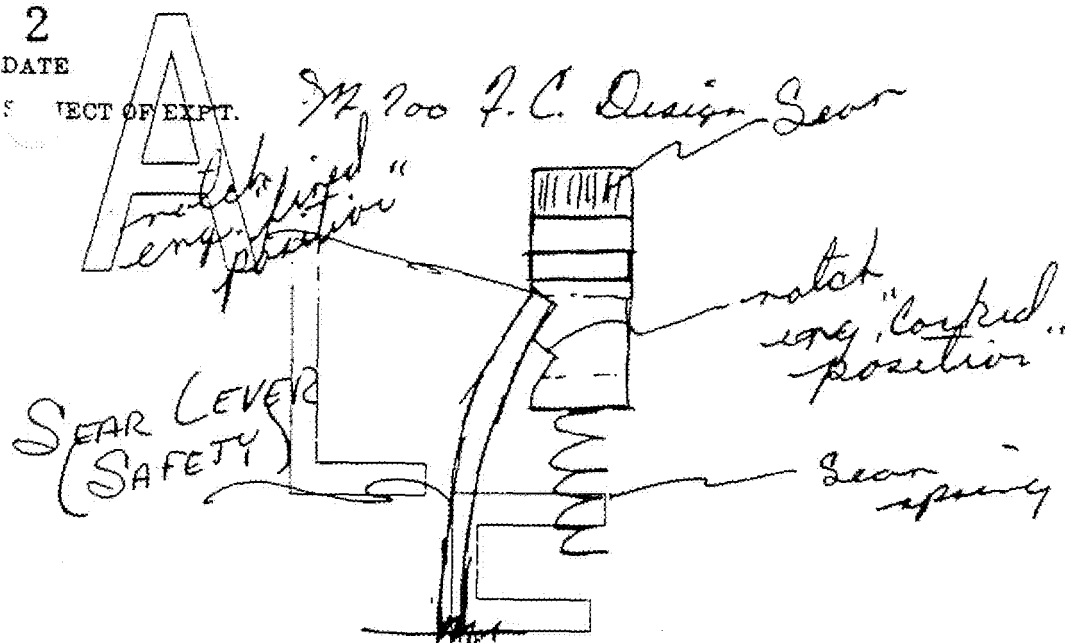
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M 700 F. C. Design Gear



The sketch shows the gear in the fixed condition and the safety lever engaged as the belt is operated down rearward the sear spring forces the sear upward the safety lever springs outward and then returns to the lower notch. With this done the sear has been effectively blocked in two conditions.

EXPERIMENTER
WITNESS

F. E. Martin

Jack East

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4-8-80

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SUBJECT OF EXPT.

4-9-80 M-700 Bolt Lock

3

A method of allowing the shooter to open the bolt of his rifle, while in a safe condition has been developed. The mechanism consist of a bolt plug, a lever, a plunger and plunger spring. The bolt body is patterned to allow the lever to lock into it. The lever is actuated by the firing pin head.

- #1 - As the bolt is closed the spring loaded lever is urged to a locked position and engages a notch cut in the rear of the bolt body.
- #2 - To open this weapon the lever is pushed down with the thumb and the bolt handle shifted with the index finger.
- #3 - If the rifle is fired the firing pin head comes the lever upward automatically unlocks the gun.
- #4 - As the bolt is open and then closed the firing pin head is retracted and the lever allowed to re lock bolt.

The three photos shown on the next page will show the operation of the bolt lock, and its location relative to the safety lever.

Photo #1 - The bolt is closed with the safety in the "On - Safe" position and the bolt is locked.

EXPERIMENTER

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Frederic E. Martin
Jack Kast

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 SUBJECT OF EXPT. M-700 Bolt Lock

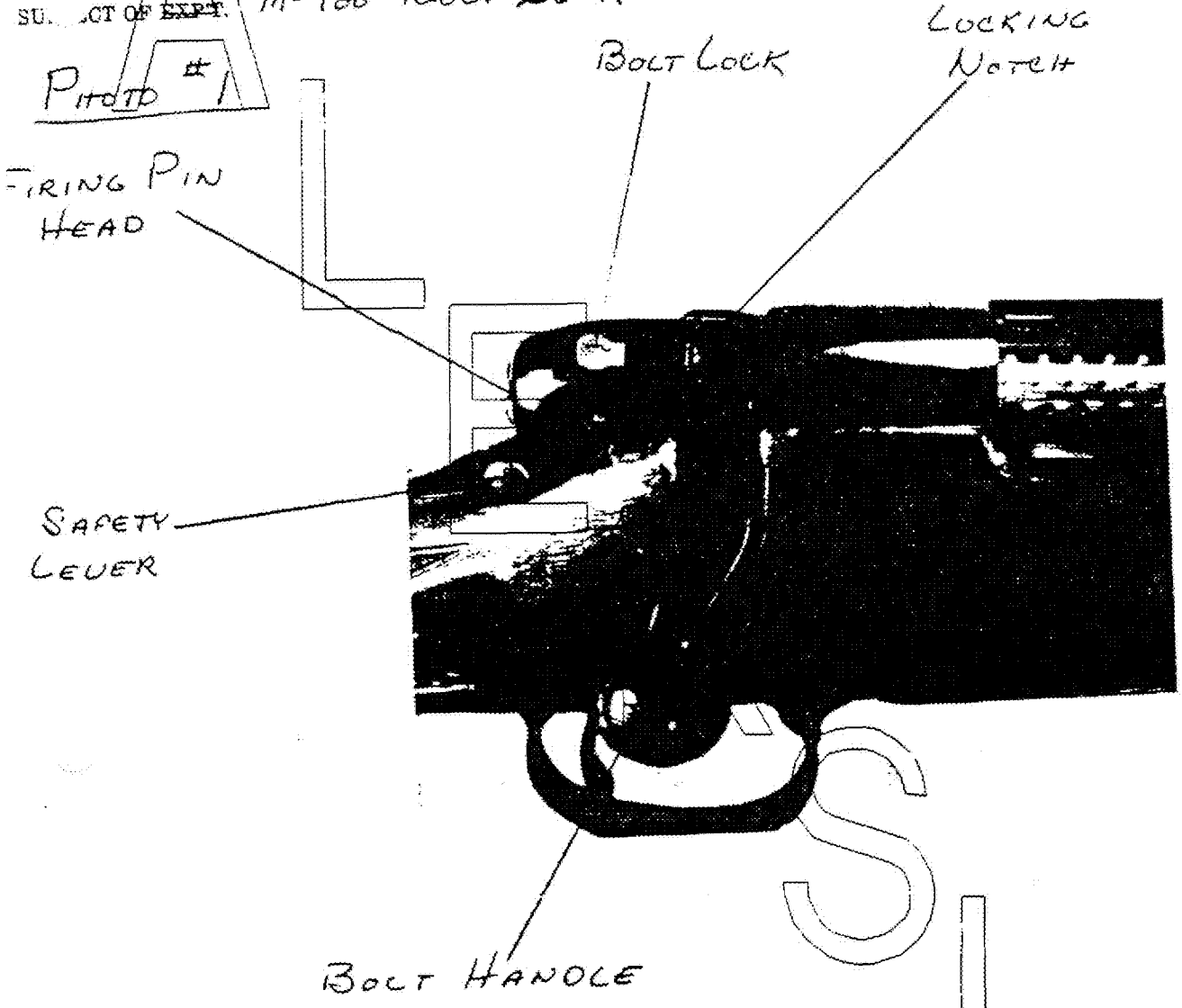


PHOTO #2 The gun is in the same condition as in the previous photo, safety lever in "On-Safe" position, the bolt lock lever has been depressed with the thumb and the bolt handle raised to illustrate the method of opening.

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EXPERIMENTER Fred E. Martin
 WITNESS Jack Kest

DATE 4-10-80
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4-9-80

SUBJECT OF EXPT.

M-700 Bolt Lock

5

PHOTO #2

FIRING PIN
HEAD

BOLT
LOCK

BOLT
HANDLE
RAISED

SAFETY LEVER

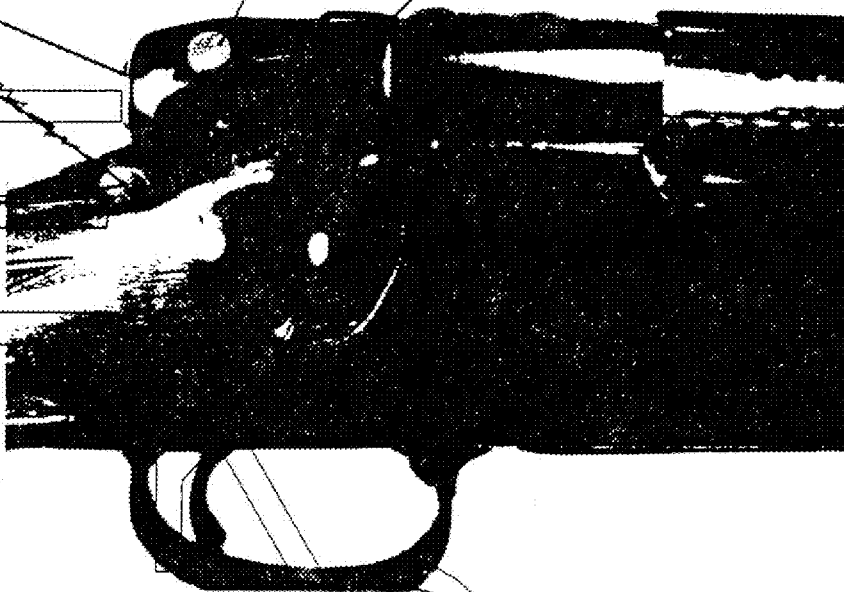
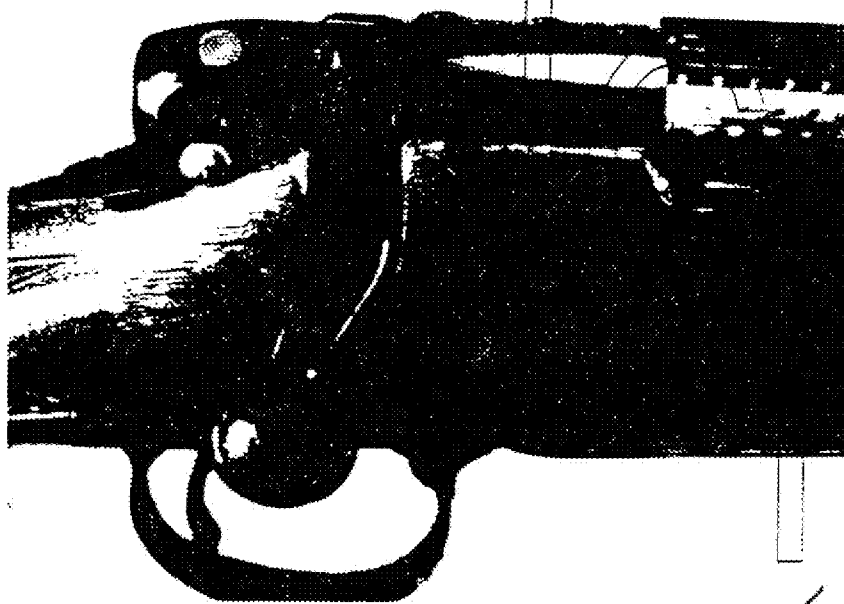


PHOTO #3



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4-9-80

M-700 Bolt Lock

Photo #3

This photo shows the gun in the
fired condition, firing pin down
bolt unlocked bolt ready to be
opened.

Work on the development and production of
this subject continues both to improve
operation and appearance. Work is being
done to also reduce cost.

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EXPERIMENTER

WITNESS

Fred E. Marti
Jack East

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plank pages

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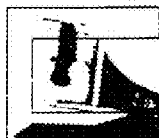
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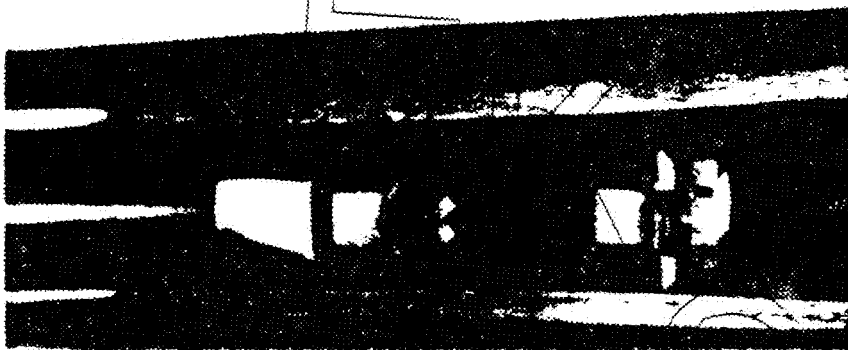
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SUBJECT OF EXPT.

March 18, '81

Scope Mounts

Have been asked by F.S. Martin to look at
 designing scope mount for M-1 & M-100
 Bolt Action Rifles - Mount to be "UNIQUE"
 to Remington Rifle - May be of "Innovative"
 Concept - Cheap - Pleasant in appearance -
 Will look at previous attempts and whether
 Butler did some for Tinsle -
 Sango did some for Walker - (way back) -
 First layout has been done and signed
 by S.A. Forelle and A.R. Edley picture
 of mount is below.

See Top of Next Page
 For Photo

EXPERIMENTER

WITNESS

Fred E. Martin
 A.R. Edley

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8/16/82

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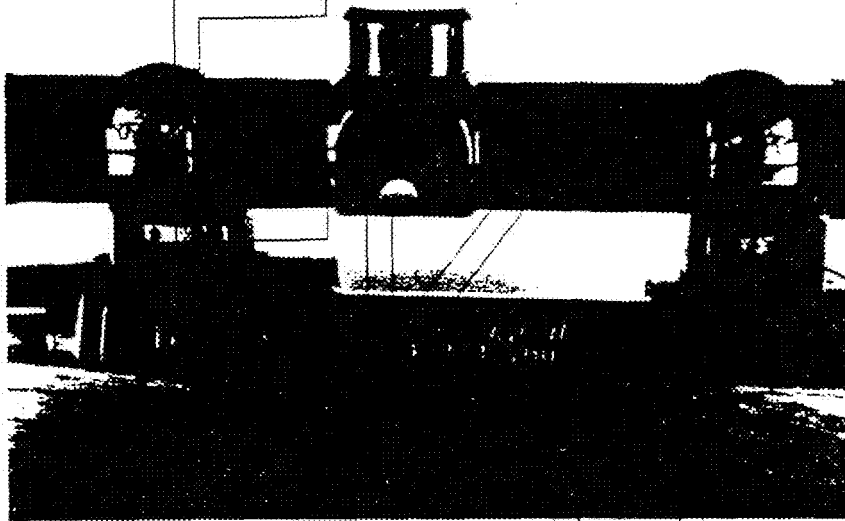
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March 18, 81

SUBJECT OF EXPT.

Scope Mount

Prote type #1 used a dovetail cut in recess
to receive a mating cut in the scope ring.

Rear
Bracketthrust
wheel

Rings were then locked in place by a jam-
screw that was activated by the thrust-wheels
that are visible.

Forward motion was stopped by the front
scope mount striking the rear of the rear
bracket.

Both rings functioned the same - rear ring
was higher by difference in rec. ring height.

Jam screw was keyed in lower half of ring
to keep it from turning when tightening.

No shooting done on this sample.

EXPERIMENTER

Fred E. Martin

WITNESS

O R Eddy

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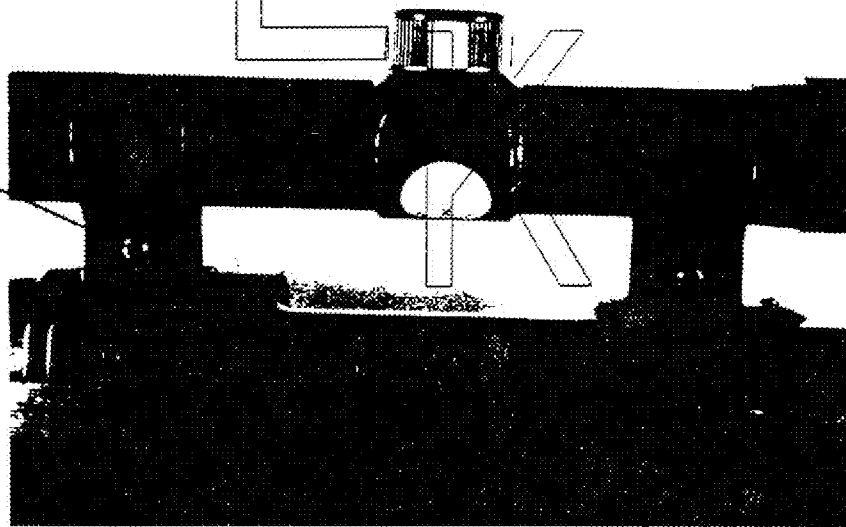
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SUBJECT OF EXPT.

July 10, 81

Scope Mount

Sample #2 is in keeping with the request to be made - cheap ⁴²⁸ I mean "cost efficient". It has been designed as a stamping, to be attached to a dovetail as in Sample #1, it uses one screw to clamp and also hold the scope.



This sample, as sample #1 is of two different heights and would be stopped by the second bracket.

Parts are 1020 or 1095 Mat'l. spring tempered, to ensure a good grip. Large diameter that wraps around scope tube is slightly smaller than tube to ensure interference and a good grip.

No starting done with this sample.

EXPERIMENTER

WITNESS

Frederic J. Martin
A. L. Eddy

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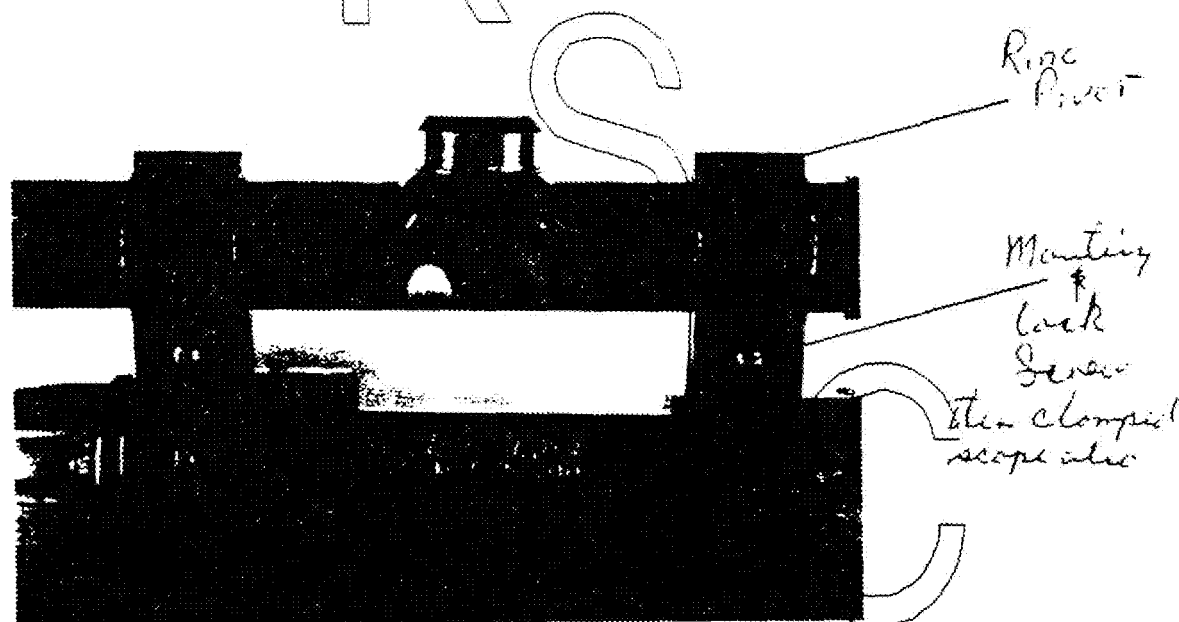
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SUBJECT OF EXPT.

July 11, 81
Scope Mounts - again

Sample #3 is a variation of #2 hopefully
 it is a little easier to mount and assemble.
 This Mount was also designed as a stoppage
 to be fastened and mounted on a dove-
 tail cut in the receiver.

Picture to explain - One screw Mounting
 and clamping



As with other samples mounting was some

No shooting yet.

Maybe some day

EXPERIMENTER

WITNESS

Paul J. Martin
 G.R. Eber

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AL 0029582

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SUBJECT OF EXPT.

July 31, 81

Scope Mounts - and again

This sample is a variation of a mount system that L. Butler developed for the M-16 Bolt Action Rifle.

It does not use a mounting block instead it ~~is~~ ^{is} directly to the receiver. In mounting like this ~~sample~~ ^{7.191} complete disassembly is made when removing the mounts.

Mounting
Screws
3 each
ring



EXPERIMENTER

WITNESS

Fred L. Vinton
A. R. Easy

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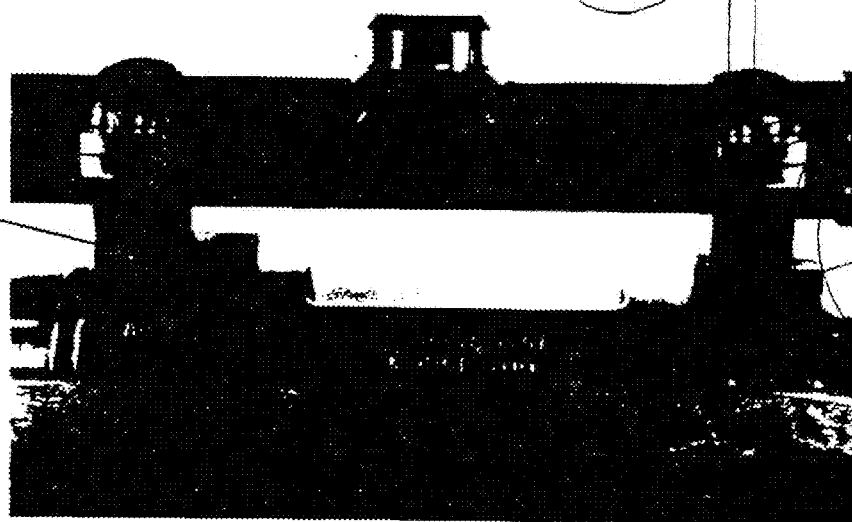
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Aug 21, 81
Again Scope Mount

The mount is similar to those marketed by
 Jensen and Tross it uses a separate block
 to mount the ring and scope to the rifle.
 The sample shown does not have to be completely
 disassembled to remove from the rifle. It is
 shown as having two ring heights but
 could also be made for one ring height
 and two different block heights.
 Blocks are screw directly to receiver.

Lock
Screw
(5)Mounting
Block -
RearLock
Screw
(3)EXPERIMENTER
WITNESSFred S. Martin
C. R. EddyDATE
DATEMounting Block - Front
8-21-81
8/16/82

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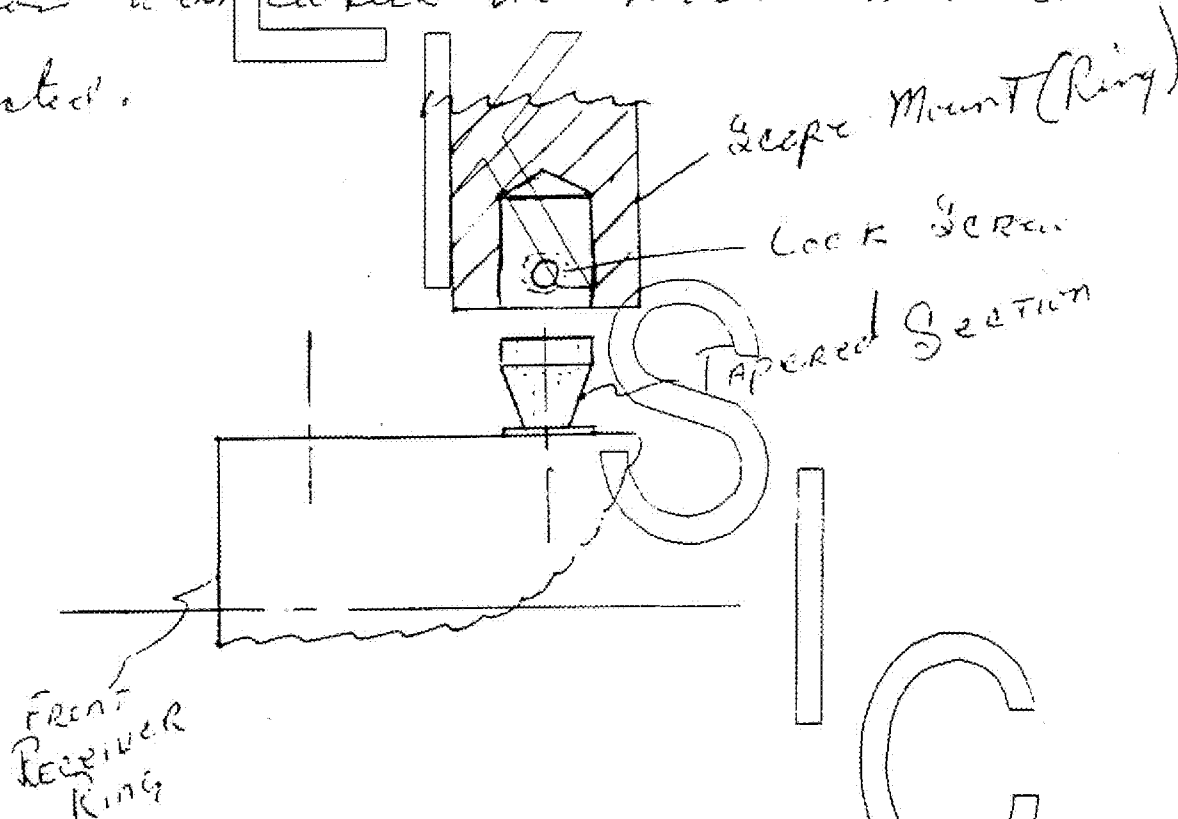
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Aug 21, 81
Scope Mount (Continued)

A scope mount system that uses a mounting bushing instead of a mounting block was developed for use on the M-700 Bolt Action Rifle.

The bushing was formed with a tapered section with which the mount lock screw contacted.



Bushings was countersunk for mounting screw and could be mounted in any of the four scope screw holes on the receiver to facilitate the use of a variety of scopes.

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Fred J. Minton
G.R. Eddy

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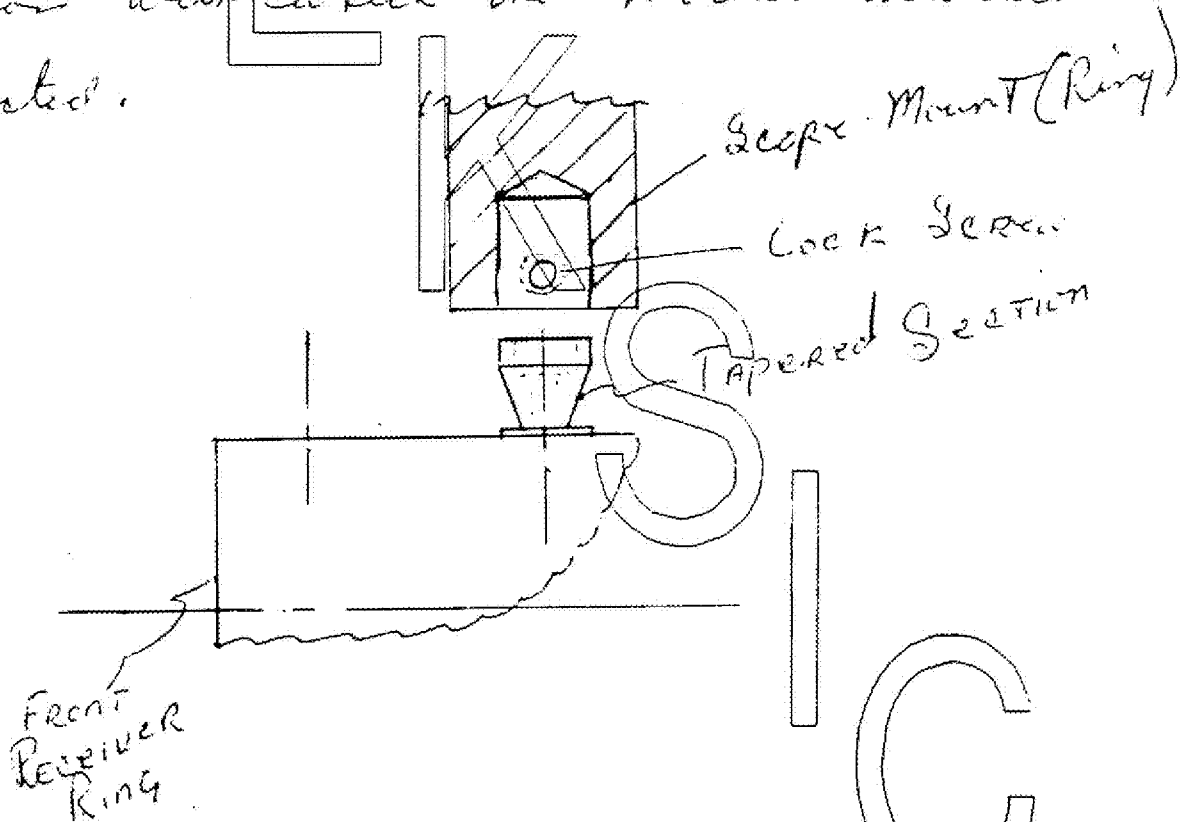
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Aug 21, 81
Scope Mount (Continued)

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The bushing was formed with a tapered section with which the mount lock screw contacted.



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EXPERIMENTER

Fred S. Martin

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8-31-81

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G.R. Eney

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8/16/81

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EXPERIMENTER
WITNESS

Paul S. Martin
C.R. Bury

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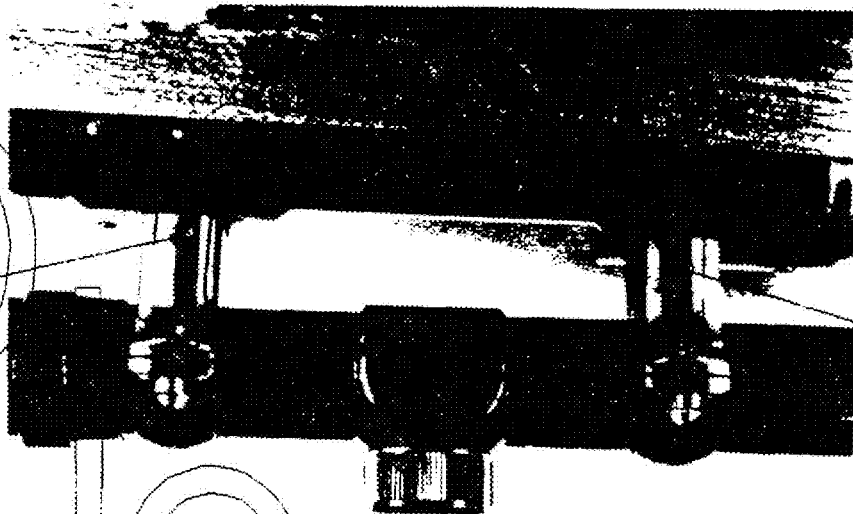
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1 each 310.
2 of 10000
6000
3000



6000
3000

S

It is shown that the measurements are the same for different
Scopes mounted in the position
right without interference. Also the
results are all the same to see the same
could measure the scope by measuring the length
of the individual among the scale which is
measured after a strip of even the length
of the bottom of the scope ring has been checked

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C.R. Bury, 31934
Scopes Mount (Continued)

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Jan 13, 1982
Integral Scope Mounts for M-7

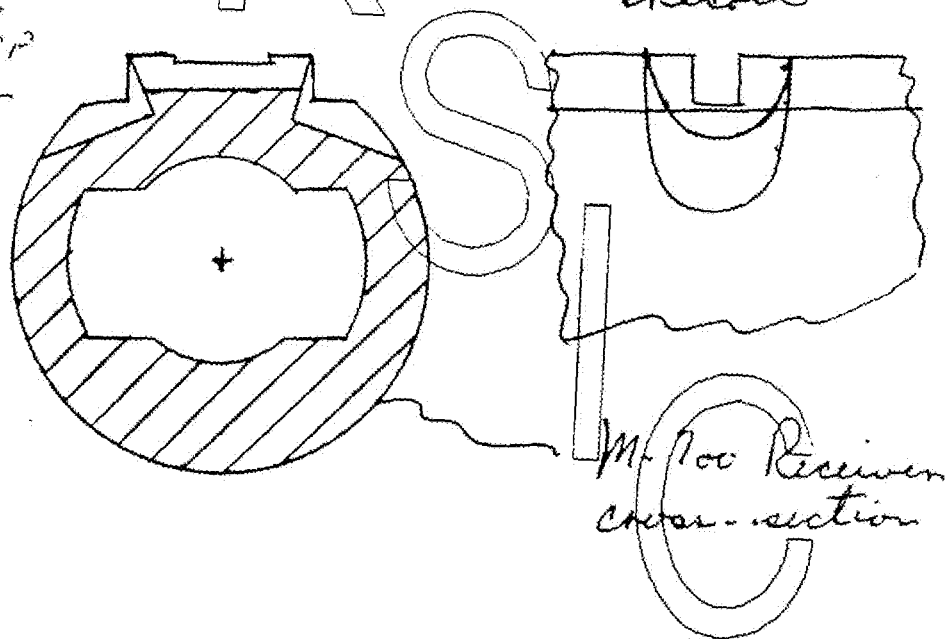
This scope mount was intended and designed to be unique to Remington Bolt Action Rifle. By this I mean the mounting of a scope using these rings could only be done on a Remington Rifle.

There are normally three components necessary to mount a scope to a rifle; first the scope second the rings and thirdly the base. By making the base as part of the receiver we can eliminate the base and use a ring of our design.

This system that we have here is series of cuts on the top of the M-700 Receiver

Cuts in Top
of Receiver

Slot to take
Recoil



The scope ring designed for use with this system has to clamp to engage the angles recessed in the receiver and a lug to engage the slot.

EXPERIMENTER

Frederic J. Martin
G. K. Eddy

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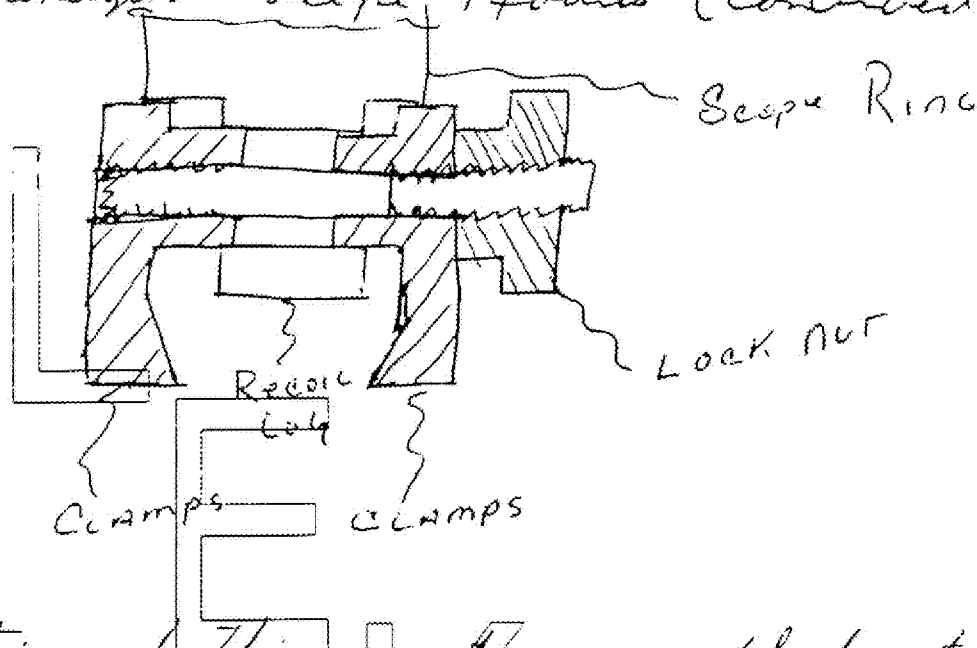
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Jan 13, 1982

Integral Scope Mounts (Continued)

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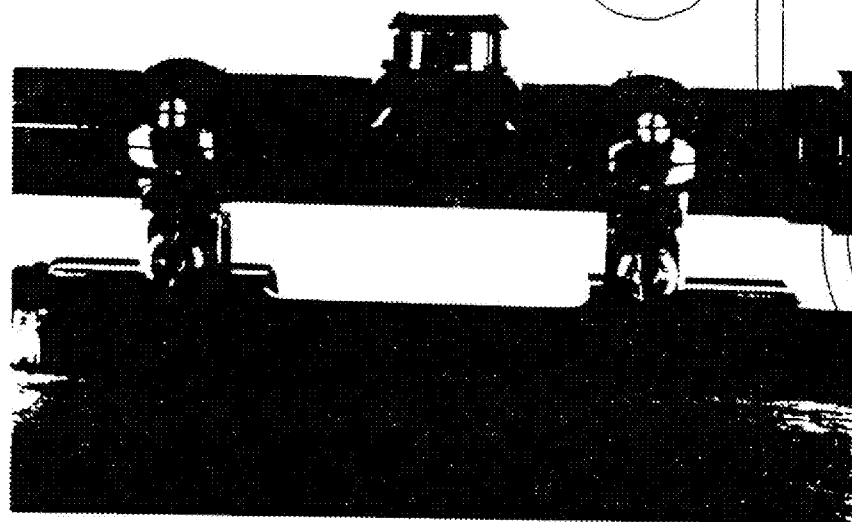


A variation of this system would be to have only one moveable clamp.

The picture shows the system mounted on a Remington Bolt Action Rifle.

An advantage of this system is that should the individual ~~with~~ want to remove the scope he can and this replace no change necessary

can easily be, can it with in sight



EXPERIMENTER
WITNESS

Fred E. Martin
C.R. Eddy

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NOTEBOOK COMPLETE - NO FURTHER ENTRIES WILL BE MADE IN THIS BOOK.

JUL 23 1987

THIS BOOK MICROFILMED
AS COMPLETE
MAKE NO ADDITIONAL ENTRIES

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