880

Issued to Richard L. Cunningham

on April 10 1961

To be returned on request.

BREWER-BORN CORP.
No. 11166
CRAFTED IN U. S. A.

RULES FOR RECORDING EXPERIMENTS

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SUBJECT FOR INDEXING THIS BOOK
MUST BE GIVEN BELOW

1

DATE April 10, 1961
SUBJECT OF EXPT. Hensley, John Edward - Rem KS-722.

During November, 1960, it was decided to build a single shot pistol on an action similar to the Rem #722. This gun was to have a International Free Style grip (left hand), full length free wind, and 10 inch barrel.

The first model was completed by the middle of January, 1961. This model was in Rem 222 caliber. Preliminary firing showed that the gun could be fired accurately from 50 ft to at least 1700 yds. without change in sight setting.

Following the completion of the first model, a second gun was made. This also being in .222 Rem caliber. This gun had a universal free style grip (left or right hand) and a 10 inch barrel. Two inches was cut off the receiver length, thus making the overall length of the gun 15½".

Test firing of this gun indicated that accurate firing could be done from 50 ft. to 300 yds. without change in sight setting.

The favorable results from tests on the first two models indicated that it might be profitable to design a International pistol to accommodate the .222 Rem cartridge. A mockup model was made of the kind adopted hereafter, this model was completed on March 13, 1961.

The mockup model and the second single shot models were presented to the NRA committee on March 15, 1961 for approval. Both guns were favorably accepted, and design of the new barrel commenced on March 17, 1961.

EXPERIMENTER Edward K. Clyne DATE April 10, 1961.
WITNESS Wayne E. Zeck DATE 4/10/61

BARBER - PRESALE R 0101683

4

DATE 4/10/62

SUBJECT OF EXPT. Fire Control Design XP-722

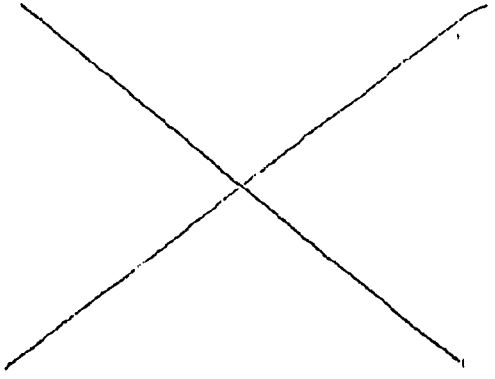
Preliminary Investigation.

On Assumed Movement of the Trigger, the Disconnector Tail Rises Forward on the Sear, Thus Moving it out of the Notch Where the Hammer is Now Held to Effect Under Power of the Hammer Spring.

Rearward Motion of the Slide Causes the Disconnector Behind the Hammer Hook to Engage the Disconnector Behind This Hammer, the Disconnector Completing and Locking the Sear to Hold Hammer.

On the Rearward Return of the Hammer, the Sear is Raised to Engage the Hammer Notch.

Forward Motion of the Slide Moves the Disconnector to Move Upward Underneath Force Until the Trigger is Released. The Fire Control is Now Ready for the Next Shot.



EXPERIMENTER Howard V. Chamberlain DATE April 10, 1962
WITNESS Wayne E. Lee 4/10/62 DATE

5

DATE 5/8/62

SUBJECT OF EXPT. Record of Design to Date

This Record has not been Kept up to Date During the Preliminary Design of the First Model Since other work and a Professional Duty, as Design Work is Full Time Job Requiring Concentration (April 1962).

Design of the Fire Control has not Changed From that Described on Pages 4&5.

The Gun has been Designed to Locking By Camming Two Directly Opposed Locking Blocks into a Barrel Extension, this Being Integral with the Barrel. The Locking Blocks are Cammed by a Slide, this Locking Into the Butt Body.

The Slide is Driven Rearward During Operation By a Rod Connected to the Piston. This Rod is Spring Loaded Forward, this Forward Energy Fire Closes the Action.

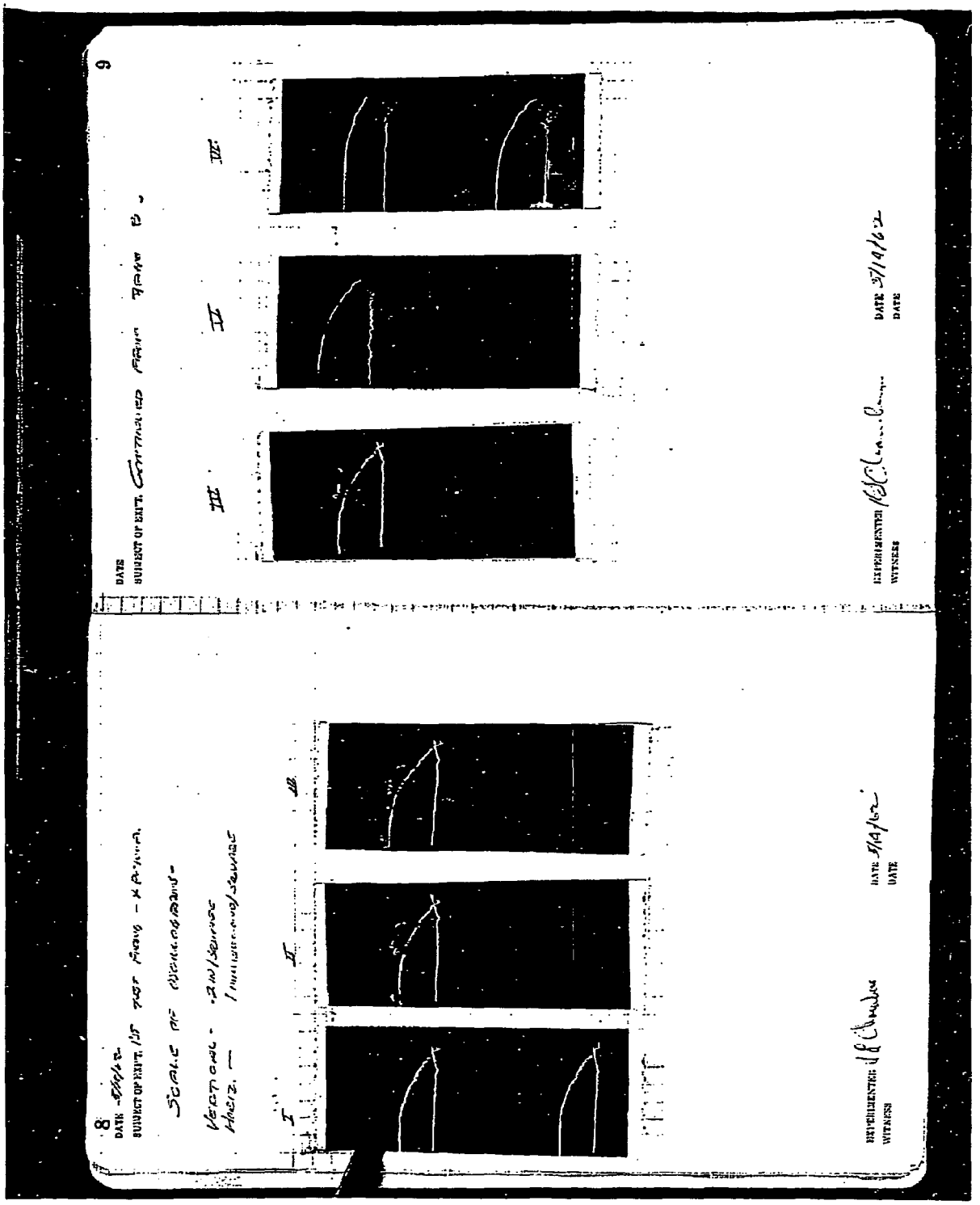
Total Slide Travel - 3.160"
Total Bolt Travel - 2.723"
Slide Travel to Unlock Point - .462"

Barrel Length - Back Face to Muzzle 10.060"

Orifice Location - 9" from Breech.

Action Spring Load Function - 1.98 Lbs.
Action Spring Load Full - 6.580 Lbs.

EXPERIMENTER Howard V. Chamberlain DATE July 6, 1962
WITNESS DATE



10

DATE 5/10/62

SUBJECT OF EXPT. 1ST TEST FIRING - XP-787A

EXAMINATION OF THE GUN AFTER FIRING APPROX. 50 ROUNDS FOLLOWING THE FOLLOWING:

1. ACTION END LUGS IN SHAPE

2. POLISHED SURFACE IN TIMER MOUNTING HANGER - LIGHTLY ON LEFT IN PHOTOS - (CAUSE) - POSSIBLY CAUSED BY FIRING ROUNDS UPWARD ON HAMMER

3. MOUNTING HANGER RUBBER SCREW HOLES LOOSE.

4. FOLDED EDGES OF HAMMER SKULL SLIGHT

EXPERIMENTER H H Chambers DATE 6/15/62
WITNESS DATE

11

DATE 6/15/62

SUBJECT OF EXPT. ~~FIRING PIN INSERT~~

A TEST WAS INITIATED ON THIS DAY TO ~~DETERMINE~~ FIND AN INSERT UNDER VARIOUS CONDITIONS. SPRINGS, HAMMERS, AND HAMMER SPRING ~~END~~ OF VARIOUS LOADS, AND FIRING PINS OF DIFFERENT LENGTHS WERE USED IN THE EXPERIMENT.

THE PURPOSE OF THE TEST WAS TO OBTAIN ~~THE~~ DATA WITH THE LIGHTEST HAMMER SPRING POSSIBLE.

EXPERIMENTER H H Chambers DATE 6/15/62
WITNESS DATE

12

DATE 6/15/62

SUBJECT OF EXPT. Firing Pin Indent

To test guns made on this day to determine firing pin indent choke tightening conditions.

Firing Pin Form.

Firing Pin Indent -

Cores - 12

Ends 1 Groove Fpr — 1- Grind

Pelle Length - 1.850

Wire Dia . .055

O.D. : .100

EXPERIMENTER [illegible] DATE 6/15/62

WITNESS DATE

13

DATE 6/15/62

SUBJECT OF EXPT. Firing Pin Indent (Cont'd)

Carbon Crusher Indent — .014 — .016

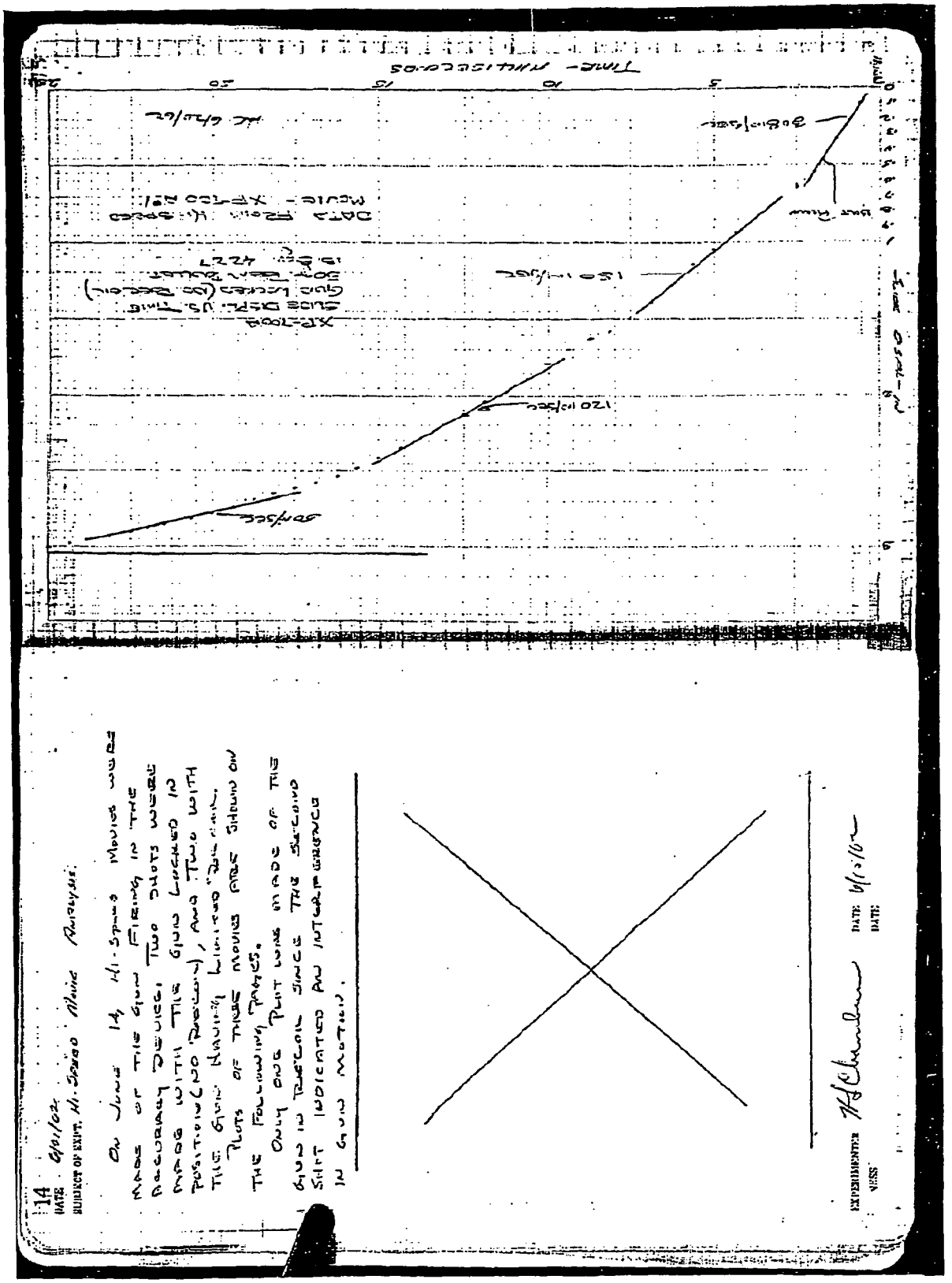
Hammer wt - .5402.

Hammer Drop Rec wt - .40 oz.

Approx. 300 Rounds were fired under these conditions. No misfires or hang fires were experienced. Examination of the primers indicated that they had started to flow but not rupture. Computed Energy, as fired was 149 foot pounds.

EXPERIMENTER [illegible] DATE 6/15/62

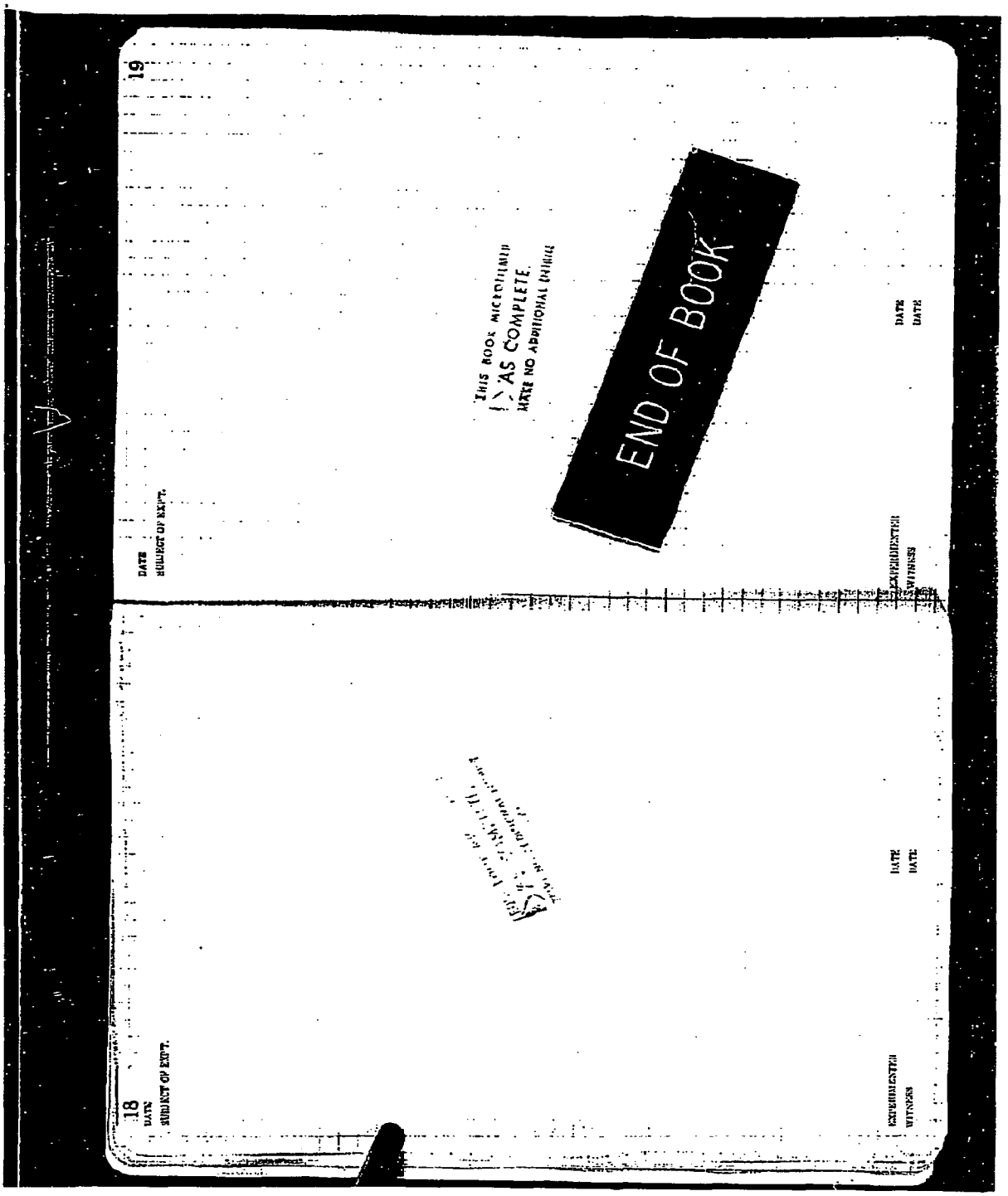
WITNESS DATE



14
DATE 6/21/62
RESIDENCE OF EXPT. Mt. Stand Maine Antelope

On June 14, Mt. Stand Maine was the
Made of the Guns Firing in the
Accuracy Devices Two Shots used
Range with the Guns Located in
Position (Radiosonic) / And Two with
the Guns Mounted Elevation
Plots of these Mounts are Shown on
the Following Pages.
Only One Plot was made of the
Guns in Elevation since the Sketch
Shot Indicated All Internal Ballistics
in Guns Normal.

EXPERIMENTER DATE 6/21/62
WITNESS DATE


END OF BOOK
THIS BOOK MICROFILMED
AS COMPLETE.
HAVE NO ADDITIONAL ENTRIES
19
18
DATE
SUBJECT OF EXH'T.
WITNESS

909

Issued to Harold J. Waterman

on AC-11, Semi-Automatic Rifle

To be returned on request.

DIETZGEN BOOK CORP.
NO. 51355
PRINTED IN U. S. A.

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DATE 2 6-6-67 STEVENS 1961
SUBJECT OF EXPT. AC-11 SAW COUT - CENTERFIRE SEMI-AUTO RIFLE

RIFLE SPECIFICATIONS

STOCK - ONE PIECE (LAMINATED WOOD, PISTOL GRIP)
LOCKING SYSTEM - VALVE PIVOT (INSIDE)
GAS SYSTEM - GREASE GAS IMPINGEMENT ON BOLT
BOLT EXTENSION
RECEIVER - STAMPED, ONE PIECE, LOW COST WITH MACHINED ATTENTION MICRO-GROOVED
MAGAZINE CHANGE - 4 CARTRIDGE, OVER CHAMBER IN CHAMBER TOTAL 5
OVERALL CONSIDERATION - GENERAL, BOX APPEARING RECEIVER, STOCK IN "UNITARY" - MINIMIZING NON-TRADITIONAL CONSTRUCTION - MOST COMMON AND MORE REASONABLE PARTS ACCEPTABLE FROM BOTTOM.

VALVE 5 - VALVE 5 - ENTIRE AND INVESTMENT WORK ON AC-11, SERVICE BASIC DESIGNS SUBMITTED - IN FINAL REVIEWED.

VALVE 10 - BASIC CARBINE ADDED WITH ATTACHMENTS MADE SPECIFICATIONS

DRAWING OF DESIGNER PARTS STARTED

EXPERIMENTER DATE
WITNESS DATE

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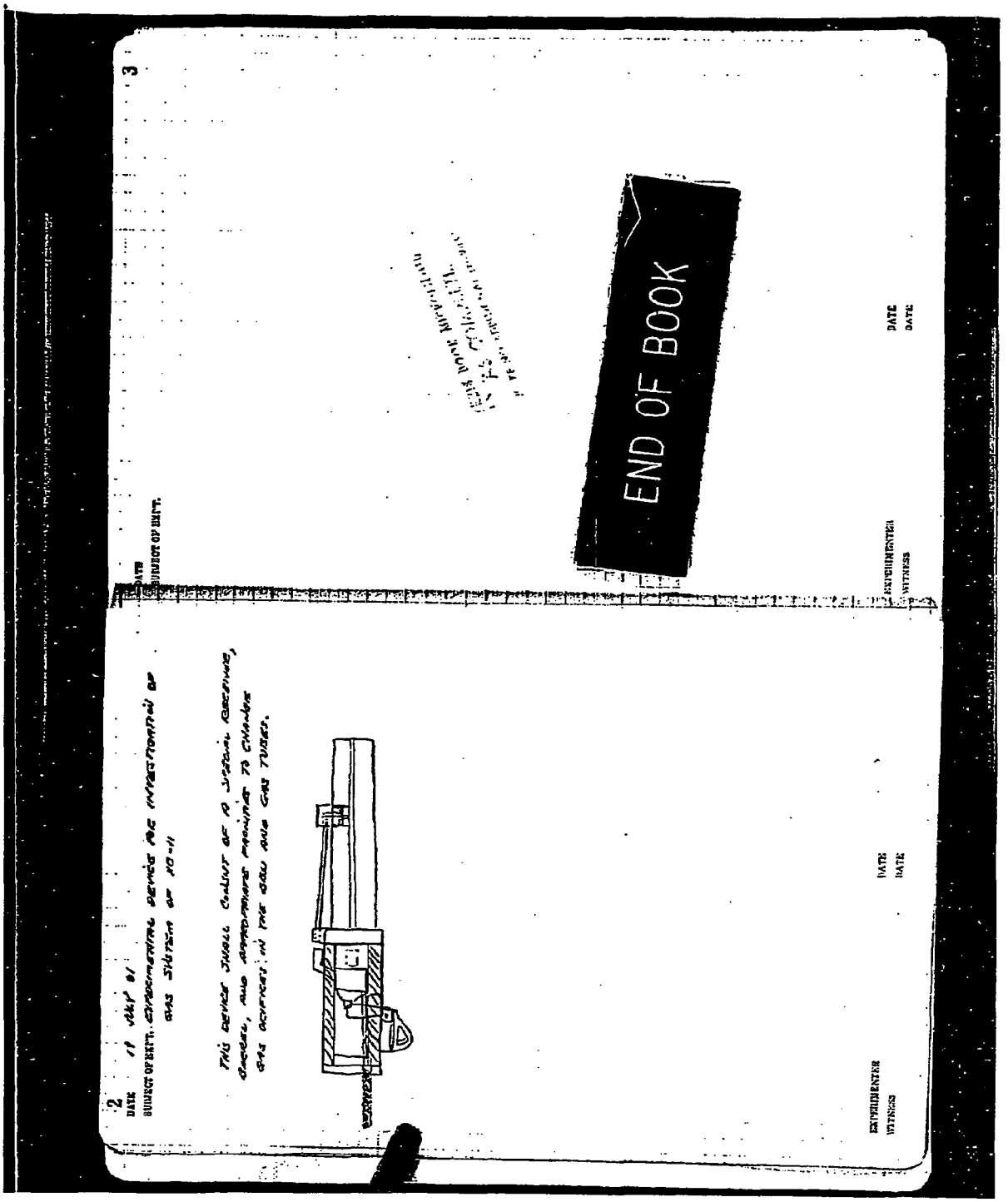
END OF BOOK