

8.27.92
WAWRELEASE MECHANISMS

THINGS WE THINK WED LIKE
TO AVOID: ASSOCIATING BOLT STOP
FUNCTION OR LOCATION WITH ELEMENTS OF SAFETY
POSITION OR FILING OF MECHANISM
BOLT STOP FUNCTION:

~~OR~~ RELEASE BY POLLING
TRIGGER BEYOND NORMAL
SEAR RELEASE:

- HOW TO GET POSITIVE
OVERTRAVEL STOP?
- AVOID ASSOCIATING ANY FUNCTION
EXCEPT FIRING WITH TRIGGER
MANIPULATION

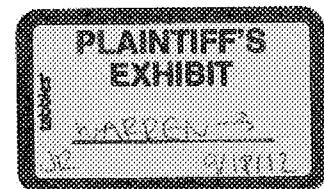
RELEASE BY MOVING

SAFETY ACTUATING MEANS
(TO EXTREME STROKE BEYOND
NORMAL POSITIONS) M581-S

- ^{AVOID} USING SAFETY FOR
MORE THAN FIRE/NO FIRE,
MULTIPLE POSITIONS,
- ^{STOP} MOVE OUT OF SAFE
CONDITION TO REMOVE
A (POSSIBLE CUSTOD) BOLT.

RELEASE BY ACTUATING
OTHER MEANS WHICH IS
PART OF RELEASE MECHANISM:
(M700, M723):

- NO INTRINSIC ADVANTAGE
TO THIS.



+ THE DEMONSTRATED REPRODUCIBLE

~~REASON~~ OF TEST RESULTS

INFLUENCE THE "REALITY" OF REPRODUCIBLE
TEST RESULTS BECOME A STRONGER DRAW
~~OUTWEIGHS~~ ^{THAN} THE
"REALITY" OF CUSTOMER PERCEPTION.

HIGH CONVENIENCE OF INTENTIONAL
OPERATION WITH REDUCED
LIKELIHOOD OF ~~UN~~ INADVERTENT
ACTIONS.

DEGREE OF ADJUSTABILITY

WHERE MADE

NO
ADJUSTMENTS

FACTORY
ONLY
ONE
TIME
DEDICATED
LOCKED
TIGHTENED
NON-ADJUST-
ABLE

FACTORY
ONLY
PROPRIETARY
MEANS
TO
ADJUST
TOOLS
SCREWS
ETC.

FACTORY
CUSTOM
GUNSMITH
ID
ADJUST

FACTORY

DEDICATED
ONLY
TIME
ONLY
BY
NATURE

DISPOSABLE
'BATTERY'
SPRINGS

ADJUSTING
GUNSMITH
ADJUSTING
GUNSMITH

SERVICE CENTER

TALENTED AMATEUR
UNSKILLED AMATEUR
MOTION

3

WT OF POLL

O.T.

ENGAGEMENT (CHECK)

ASSUMED

PRIORITIES

- ① M700 SENDER THRUOUT (PRODUCTIVE) SPECS SUCCESSFUL COMPLETION: END OF ACTUAL
- ② ACQUISITIONS ON (LONG LEAD TIME) (STANDARD FOR VARS (COMPARISON: OTHER))

DEFINE

M③ N BAR TIME CONTROL.

GOALSYSTEM CONFIGURATION
DEFINED.

OUTPUT TIME TABLE ON ^{TABLE} DEFINITION OF
N BAR F. CONTROL.

NOW

TIME TABLE ON TIME TABLE

SUB GOALS ~~TIME TABLE OF FINISHED~~

ULTIMATE: TIME TABLE ON DEFINITION
OF F.C.

PRIOR N BAR REVIEW

WHY WAS PRIOR DESIGN (AROUND 200-300 SYSTEM?)
OR WAS IT UNSATISFACTORY?
COMPETITIVE PRODUCT REVIEW
SYSTEM CONFIGURATION

STRENGTHS / WEAKNESSES

- IN-DEPTH LITERATURE REVIEW
S. DITZENIS BOOK(S)
- LEGAL / LITIGATION / AUTHOR DISTRIBUTION
SUMMARIES — DISCARD ^{WARRANT} MYTHS
ON THEIR OWN VARIOUS DEFICIENCIES.

P. 015

W. H. Allen

N BAR

every other "minimum material removed"
CF rocker in a new lockup.

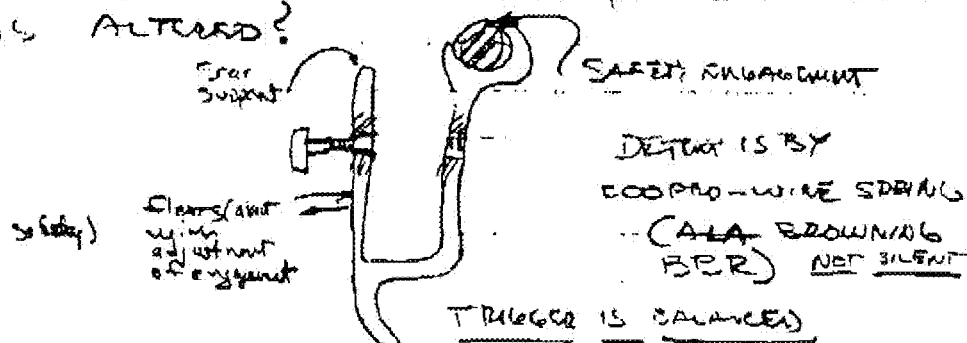
AVOID A "BO HEAVY" PRELOAD
ON F.P. SPRING $\Rightarrow$ THIS LOAD IS
APPLIED ON FIRE CONTROL DISENGAGEMENT SURFACES.

AVOID TETAS MAGNUM CONDITION:

- APPLYING SAFE (CROSSBUT) _____
IN FIRED CONDITION WILL NOT _____
ALLOW FIRING PIN TO RECOCK _____

BINDING NOTCHES IN HEAD OF
F. P. LOCKING SCREW(S) (RTT ENGAGEMENT)
90 PITCH WITH 12 $\Rightarrow$.002 INCHES PER
STEP.

HOW DO YOU ACCOMMODATE A
TRIGGER ROLL SAFETY WITHOUT REQUIRING
AN ADJUSTMENT IF TRIGGER SPRING ENGAGEMENT
IS ALTERED?



SILENCE OF LOOP WIRE SPRING
IN SAFETY OR BEE & 277?

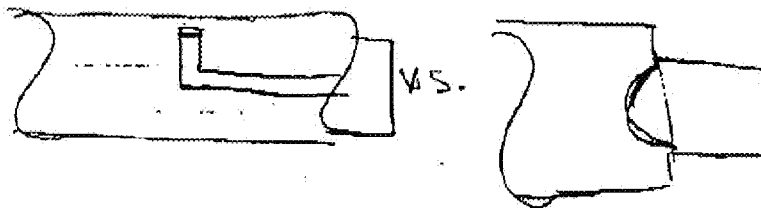
ROGER TANG SAFETY LOCKED
LEVERAGE (MECH. ADVANTAGE) FOR CAM-BACK
TYPE OF FINGER PIN BLOCK SAFETY.

CAN WE ADD A "RESILIENT"
MEANS TO SEAR - INSTEAD - OF TRIGGER.....

- MUST BE CORRECTLY POSITIONED
BE ACTION OF
PUT "CONNECTOR" ON THE SEAR

NO BAR.

ESCAPE ramp for bolt stop
plunger available - L CUT FOR BOLT
LOCKDOWN VOL II pg 165



BOTH ROGER M77 AND CHAMPION
REQUIRED REMOVABLE F.P. SPRING PLUNGES
WITH SOLID (INTEGRAL) ONES.

TEST REQUIREMENTS

WILL EXCEED SAAMI
DROP TEST FOR NEW PRODUCT
BY CONSIDERABLE MARGIN.

EQUAL TO OR BETTER THAN M1200
DROP TEST PERFORMANCE

GOALS

CONSUMER ADJUSTABLE

STRATEGY

- "GRIP" SAFETY
- TRIGGER - TRIGGER (GUST)

DEFINITIONS OF NEW SYSTEM

NO MENTION MADE OF INTERNAL BOLT/REC CONCEPT - NOT A DESIGN

- TWO POSITION SAFETY
SIMPLEST, REMINGTON TRADITION, EASY TO UNDERSTAND
- BOLT LOCK ON SAFE
- ** RELEASEABLE BOLT LOCK — ^{DOES NOT NEED} "OPTIONAL"
ALLOWS OPENING BOLT WITH SAFETY "ON"
- WILL BLOCK AND LIFT SEAR AS
PRIMARY MEANS
- COULD BLOCK TRIGGER ALSO
— NOT SAFER AS SUCH, BUT THIS
MAY ADDRESS CUSTOMER PERCEPTION
THAT IT IS BETTER IF TRIGGER DOESN'T
MOVE.
- CONSIDERING VERTICALLY SLIDING
SEAR
- SELF-CONTAINED SUB-ASS'Y MOUNTED
RIGIDLY TO RECEIVER
- DIVORCE BOLT STOP/RELEASE FROM
INSIDE TRIGGER BOW; NO OTHER REASON
TO REACH INSIDE TR. GUARD BOW BUT
TO PULL THE TRIGGER.

WAW

8.10.13

IF BOLT LOCK / BOLT STOP ARE
COMMON / INTER-RELATED PARTS,
THEN IT SHOULD BE DONE IN A
WAY THAT USER CAN ELECT
NOT TO HAVE BOLT ~~LOCK~~ LOCK
FUNCTION BUT RETAIN BOLT
STOP FUNCTION.

- e FACTORY
- e GROUNDSWITCH
- e SELF

BEST WAY WOULD ~~BE~~
INVOLVE REMOVING A
PART

LOST / MISPLACED
• IT THEN DIFFICULT TO
RESTORE OTHER MODE.

FOR MINIMUM (FLOOR) ON TRIGGER
ROLL :

• DUAL SPRING SYSTEM

- 1 FIXED MINIMUM PERMANENT / ADJUSTING
e ADJ.T.
- 1 ADJUSTIVE FOR ADJUSTMENT

- SINGLE SPRING WITH
MINIMUM PRELOAD MAINTAINED
WHEN ADJUSTMENT IS COMPLETED
TO MINIMUM EXTREME.

BROWNING BSA

- ACCESSIBLE WITHOUT
RIFLE DISASSEMBLY
- ACCESSIBLE ONLY WITH
RIFLE DISASSEMBLY.