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Ilion, New York
December 7, 1982

Barry Estrin
Patent Department
Bridgeport

INVENTION REPORT NO. IT-300
A FIRE CONTROL FOR BOLT ACTION
RIFLES HAVING A TRIGGER AND
SEAR BLOCK

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REASON FOR DEVELOPMENT

A fire control featuring a sear block along with a trigger block was developed to eliminate unwanted trigger movement when the safety is in the on safe position.

THE PROBLEM

A major problem with present fire controls used in bolt action rifles has been unwanted and unnecessary trigger movement when the safety is in the on safe position.

The trend has been to allow this movement to exist unless specifically addressed by the use of a trigger block safety. A trigger block safety was used on the early Remington M/788.

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Invention Report No. IT-300
A Fire Control For Bolt Action
Rifles Having a Trigger and
Sear Block

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Other safeties in use are the firing pin block used by U.S. Repeating Arms (Winchester) and Weatherby.

SUMMARY OF INVENTION

The trigger block plunger has an enlarged tip that is depressed by the safety into a recess in the trigger when in the on safe position. The plunger releases the trigger by seating in a conical recess in the safety lever in the fire position. The plunger is mounted thru the trigger and housing and is spring loaded to the unblocked position.

INVENTION DISCLOSURE

Completely assembled this unit consists of the present trigger housing assembly modified to accept the plunger, the trigger altered to have a thru clearance-hole and blocking recess, a compression spring to actuate the plunger, a newly designed safety lever, and the trigger block plunger.

PRIOR ART

To the writer's knowledge there are no fire controls that have a trigger block passing thru the trigger.

This system was designed for Bolt Action Rifles to eliminate unnecessary trigger movement, and may be adapted to Remington's present line.

Fred E. Martin Date
Illion Research Division

FEM:ws

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