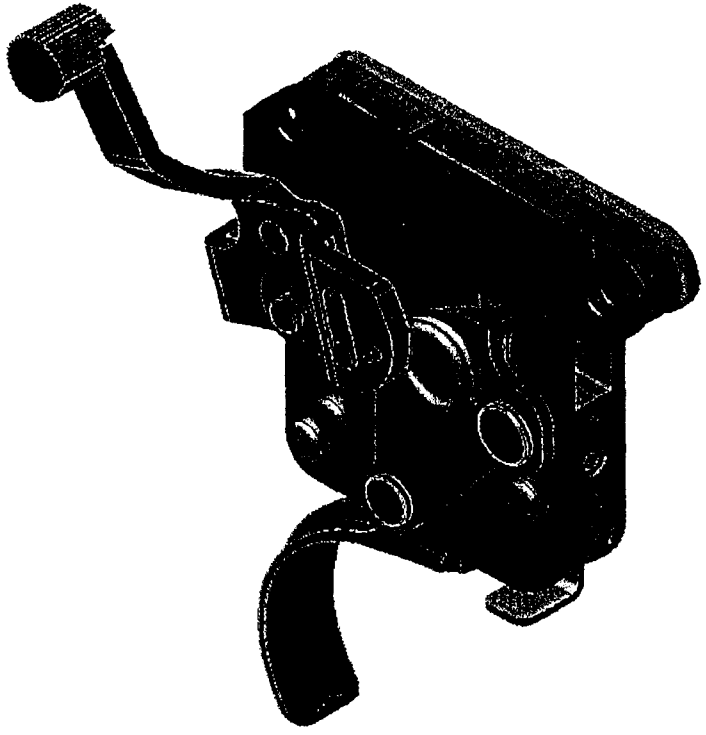
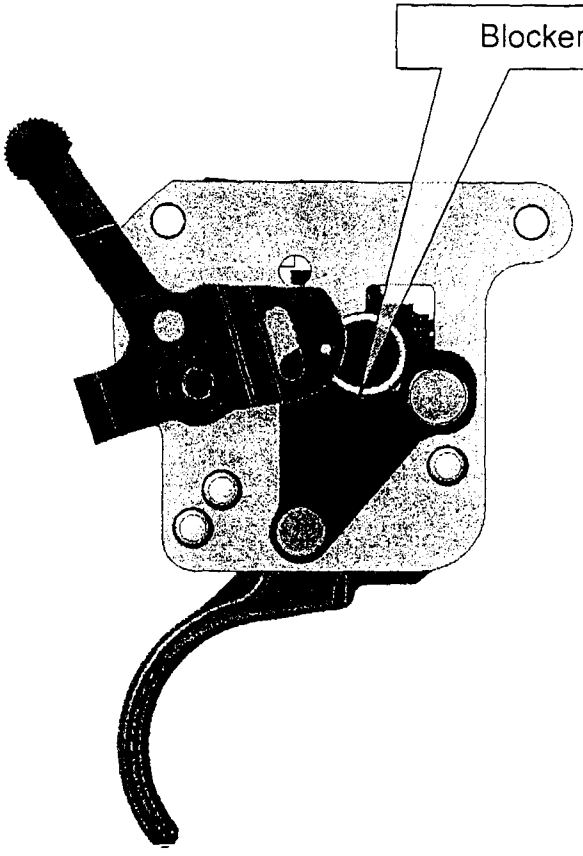
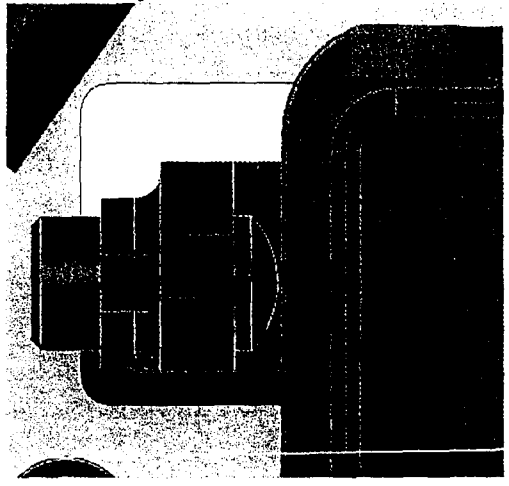
How The Safety Pivoted Link (SPL) Trigger Assembly Works

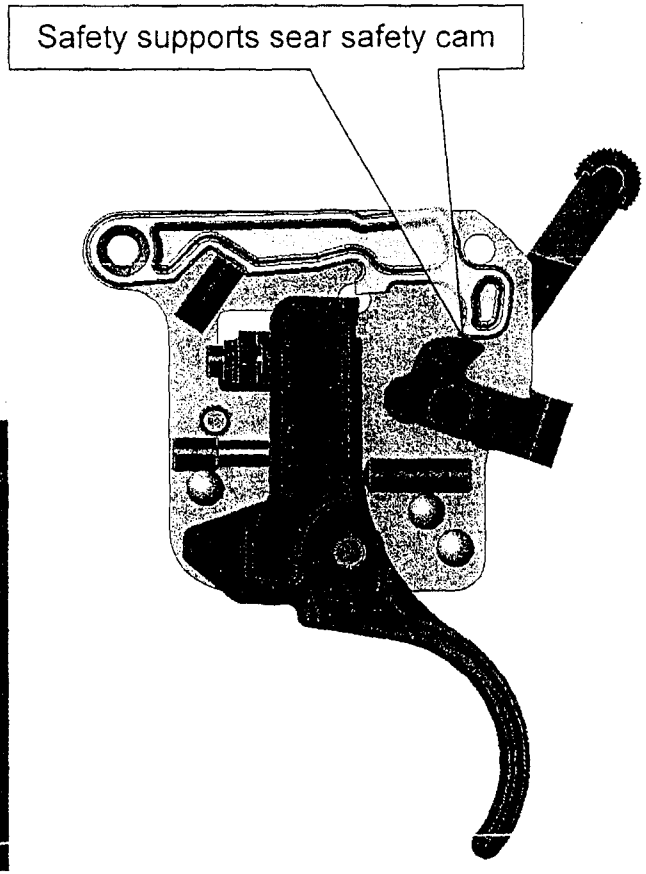


SAFE



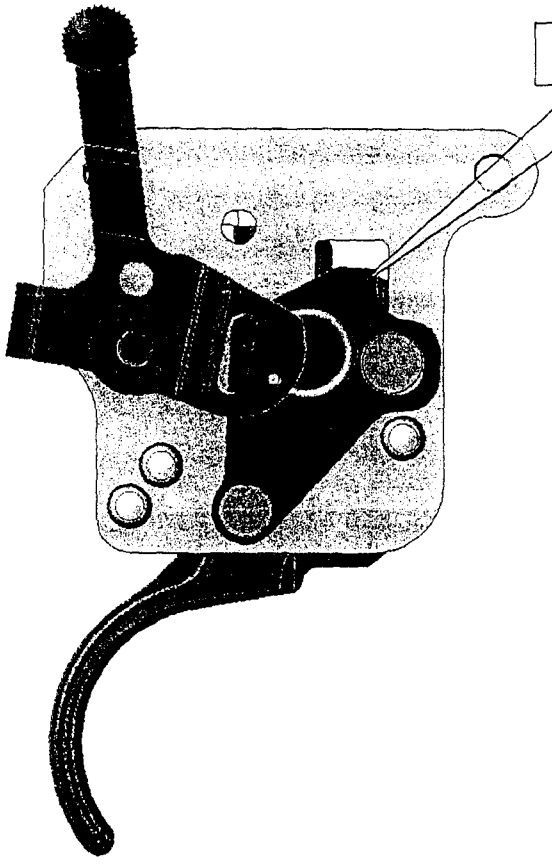
With the safety in the SAFE position, the blocker ensures the trigger is blocked and under the sear while the sear safety cam is supported by the safety.



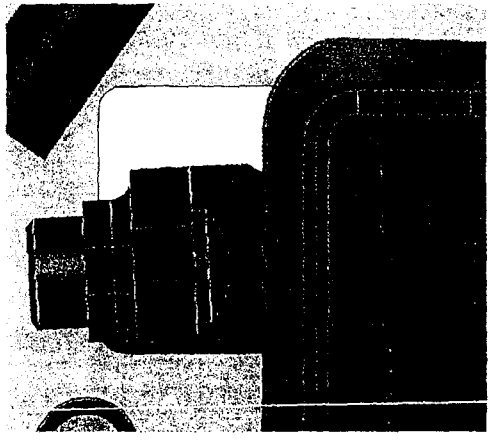


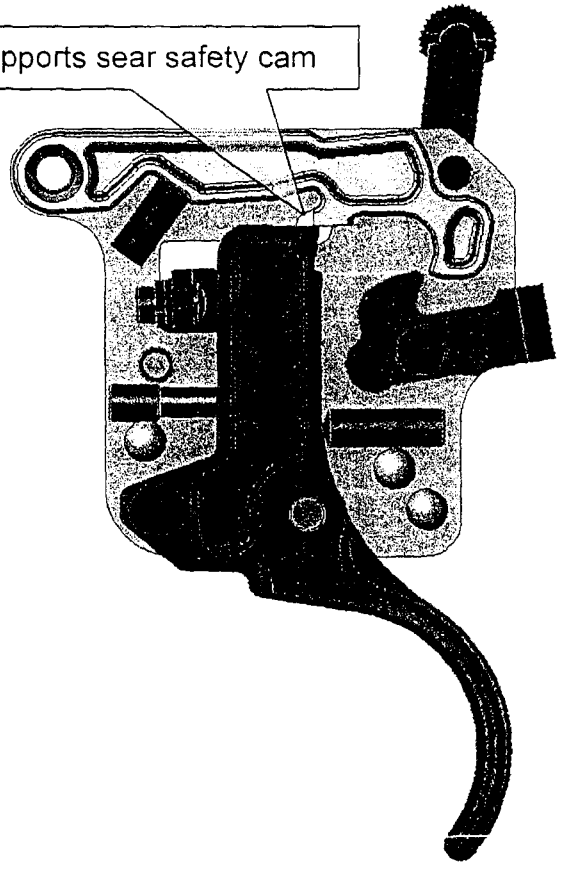
Left hand side plate and bolt stop omitted for clarity in this view

FIRE



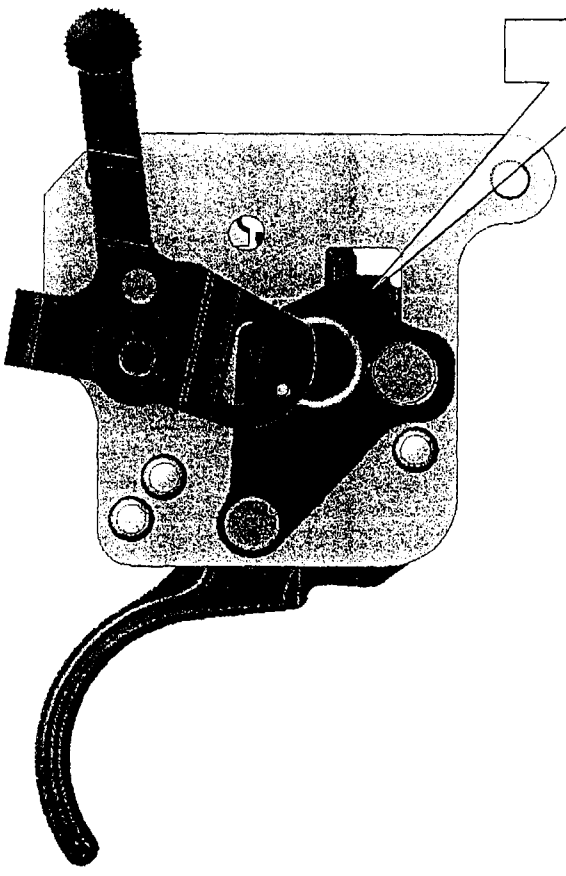
With the safety in the FIRE position, the blocker moves away from the front of the trigger and the safety lowers the sear safety cam on top of the trigger.



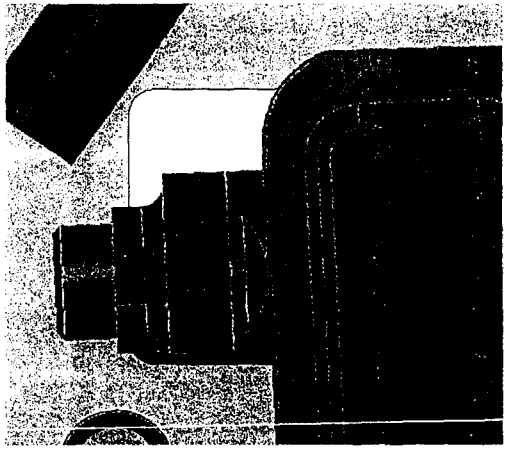


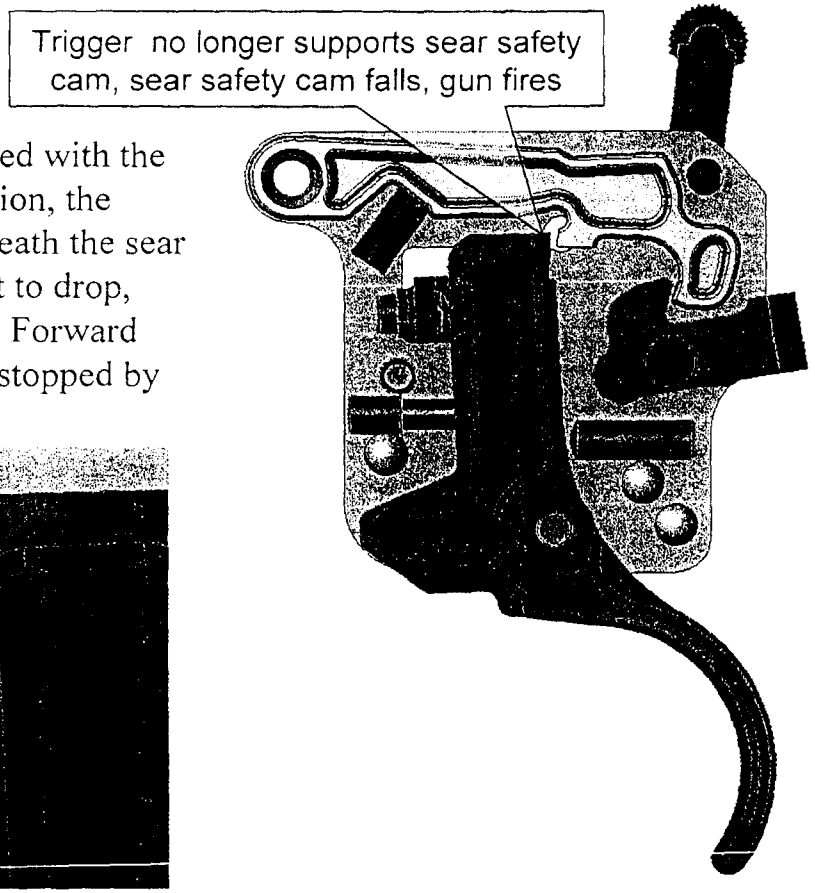
Left hand side plate and bolt stop omitted for clarity in this view

Fired



When the trigger is pulled with the safety in the FIRE position, the trigger rotates from beneath the sear safety cam and allows it to drop, releasing the firing pin. Forward motion of the trigger is stopped by the blocker.





Left hand side plate and bolt stop omitted for clarity in this view

Design Comparison

Attribute	Current	SPL
Trigger return?	No	Yes
Connector?	Yes	No
Engagement adjustment?	Yes	Yes
Trigger pull force adjustment?	Yes	Yes
Overtravel adjustment?	Yes	No
Safety detent system?	Ball/Leaf Spring/Holes	Torsion Spring
Integral trigger housing spacers?	No	Yes
Sear safety cam retained in housing?	No	Yes
Corrosion resistant?	Some models	All models