

CLAIMS

1. A firearm, comprising:

- a hammer;
- a safety lever configured to select an operation mode;
- a trigger;
- an electromechanical sear;

wherein the operation modes include an electromechanical mode, and the firearm is configured so that when moving the safety lever to select the electromechanical mode the safety lever moves the hammer to be held by the electromechanical sear instead of by the trigger.

2. The firearm of claim 1, wherein the firearm is configured so that when changing the operation mode from the electromechanical mode to other modes the safety lever moves the hammer so that the hammer is released from the electromechanical sear and held by the trigger.

3. The firearm of claim 1, wherein the electromechanical mode is in addition to supporting mechanical modes that function without electrical power.

4. The firearm of claim 1, wherein the safety lever is configured to move the hammer with a set of levers; wherein the set of levers are coupled to the safety lever, the hammer and/or a hammer cocking sear.

5. The firearm of claim 1, wherein the firearm comprises a hammer cocking sear; wherein the hammer cocking sear includes a head lever and a tail lever; and wherein when moving the safety lever to the electromechanical mode, the safety lever pushes the tail lever of the hammer cocking sear and causes the head lever to lower the hammer to be held by the electromechanical sear instead of by the trigger.

6. The firearm of claim 5, wherein the firearm comprises an automatic mode sear that regulates firing in automatic mode; and wherein the automatic mode sear is coupled to the hammer cocking sear.

7. The firearm of claim 5, wherein the hammer includes an extrusion lever configured to be pushed by the head lever of the hammer cocking sear to lower the hammer.

8. The firearm of claim 5, wherein the safety lever includes a bulge lever configured to push the tail lever of the hammer cocking sear when changing to or from the electromechanical mode.

9. The firearm of claim 1, wherein the firearm comprises a semi-auto sear configured to hold the hammer immediately after releasing a first shot manually in a semi-automatic mode; and wherein the semi-auto sear is positioned in parallel to the electromechanical sear.

10. The firearm of claim 1, wherein the safety lever is configured to block motion of the electromechanical sear when not in use.

11. The firearm of claim 1, wherein the firearm comprises an electromechanical firing control (EMFC) configured to store mechanical energy and release shots responsive to decisions of a computer.

12. A method of activating a firearm in an electromechanical mode, comprising:

receiving a firearm comprising a hammer, a safety lever, a trigger and an electromechanical sear;

moving the safety lever to select an electromechanical mode;

wherein when moving the safety lever to select the electromechanical mode the safety lever moves the hammer to be held by the electromechanical sear instead of by the trigger.

13. The method of claim 12, wherein the firearm is configured so that when changing the operation mode from the electromechanical mode to other modes the safety lever moves the hammer so that the hammer is released from the electromechanical sear and held by the trigger.

14. The method of claim 12, wherein the safety lever moves the hammer with a set of levers; wherein the set of levers are coupled to the safety lever, the hammer and/or a hammer cocking sear.

15. The method of claim 12, wherein the firearm comprises a hammer cocking sear; wherein the hammer cocking sear includes a head lever and a tail lever; and wherein when moving the safety lever to the electromechanical mode, the safety lever pushes the tail lever of the hammer cocking sear and causes the head lever to lower the hammer to be held by the electromechanical sear instead of by the trigger.