CLAIMS

I/We claim:

1. A method of controlling the release of bullets from a firearm (100) by user behavior, comprising:

monitoring the spatial orientation of a virtual vector representing the orientation of a barrel (110) of the firearm by receiving measurements from sensors (130, 132, 134) installed in or on the firearm;

engaging a trigger (120) of the firearm by the user to release a first bullet to a first direction;

while the trigger is engaged continuously analyzing the measurements to identify preconfigured motion patterns;

releasing bullets automatically responsive to identifying the preconfigured motion patterns;

wherein the preconfigured motion patterns include identifying that the user is stabilizing the firearm toward a target that is in a direction that is distinct from the first direction.

2. The method according to claim 1, wherein the preconfigured motion patterns include moving the firearm to track a moving target.

3. The method according to claim 2, wherein the preconfigured motion patterns further include that the user is also moving.

4. The method according to claim 1, wherein the preconfigured motion patterns include that the user stabilizes the firearm toward a stationary target.

5. The method according to claim 4, wherein the preconfigured motion patterns further include that the user is also moving.

~~6. The method according to claim 1, wherein the sensors include multiple chips installed on a planar surface, which are rotated relative to each other and each chip comprising an accelerometer and a gyroscope.~~

~~7. The method according to claim 1, wherein the sensors include an optical sensor or an IR/thermal sensor.~~

~~8~~6. The method according to claim 1, wherein stabilizing the firearm toward a target comprises aiming the firearm so that it wobbles around an axis directed from the firearm to the target and the wobbling's are essentially restricted within a limited error window around the axis.

~~9. The method according to claim 1, wherein the firearm limits the release of bullets to specific spatial boundaries relative to the first direction.~~

~~10. The method according to claim 1, wherein the firearm provides an indication if the bullets depleted.~~

~~11. The method of claim 1, wherein the user selects a behavioral controlled operation mode to enable the firearm to automatically release bullets instead of only releasing bullets manually.~~

~~12. The method of claim 11, wherein the firearm includes a separate behavioral controlled operation mode for handling a stationary user and a separate behavioral controlled operation mode for handling a moving user.~~

~~13~~7. A firearm (100) that controls the release of bullets based on user behavior, comprising:

one or more sensors (130, 132, 134) that provide measurements to determine the spatial orientation of a barrel (110) of the firearm;

a controller (170) that monitors the spatial orientation of a virtual vector representing the orientation of the barrel of the firearm;

a trigger (120) to indicate that the user is interested in releasing bullets when the user engages the trigger;

wherein a first bullet is released to a first direction when the user initially engages the trigger and while the trigger is engaged the controller is configured to:

——continuously analyze the measurements received from the sensors to identify preconfigured motion patterns; and release bullets automatically responsive to identifying the preconfigured motion patterns; and

——wherein the preconfigured motion patterns include identifying that the user is stabilizing the firearm toward a target that is in a direction that is distinct from the first direction.

~~14~~8. The firearm according to claim ~~13~~7, wherein the preconfigured motion patterns include moving the firearm to track a moving target.

~~15~~9. The firearm according to claim ~~14~~8, wherein the preconfigured motion patterns further include that the user is also moving.

~~16~~10. The firearm according to claim ~~13~~7, wherein the preconfigured motion patterns include identifying that the user stabilizes the firearm toward a stationary target.

~~17~~11. The firearm according to claim ~~16~~10, wherein the preconfigured motion patterns further include that the user is also moving.

~~18. The firearm according to claim 13, wherein the sensors include multiple chips installed on a planar surface, which are rotated relative to each other and each chip comprising an accelerometer and a gyroscope.~~

~~19~~12. The firearm according to claim ~~13~~7, wherein the sensors include an optical sensor or an IR/thermal sensor.

~~20. The firearm according to claim 13, wherein stabilizing the firearm toward a target comprises aiming the firearm so that it wobbles around an axis directed from the firearm to the target and the wobbling's are essentially restricted within a limited error window around the axis.~~

~~21~~13. The firearm according to claim ~~13~~7, wherein the firearm limits the release of bullets to specific spatial boundaries relative to the first direction.

~~22. The firearm according to claim 13, wherein the firearm provides an indication if the bullets depleted.~~

~~23~~14. The firearm of claim ~~13~~7, wherein the firearm includes a manual mode and a behavioral controlled operation mode to enable the firearm to automatically release bullets based on user behavior instead of only releasing bullets manually.

~~24~~15. The firearm of claim ~~23~~14, wherein the firearm includes a separate behavioral controlled operation mode for handling a stationary user and a separate behavioral controlled operation mode for handling a moving user.