CLAIMS:

1. Breechblock assembly (3) for a firearm (1), comprising:
- a guiding element (31) comprising~~, in turn,~~ a slide (314) adapted to slide along a guide (142) comprised in an actuation system (14) of the breechblock assembly (3) driven by a motor;
- a shutting element (35), adapted to shut an opening in a breech ring (12) of the firearm (1);
- a percussion pin (34), which is pushed by an elastic element (332);
said shutting element (35) comprising an axial hole (352) in which said percussion pin (34) is adapted to slide along a longitudinal axis (X), as a function of ~~the~~ a firing cycle of the firearm (1) with which said breechblock assembly (3) may be associated;
said percussion pin (34) being so shaped as to be able to partially come out of said axial hole (352) of the shutting element (35) for firing a piece of ammunition;
said breechblock assembly (3) comprising a control system (4) for controlling the percussion pin (34);
said control system (4) being adapted to control ~~the~~ a operability and ~~the~~ a movement of the percussion pin (34) independently of ~~a~~ the firing cycle of the firearm (1).

2. The breechblock ~~Breechblock~~ assembly (3) according to claim 1, wherein said control system (4) comprises at least one locking element (42) for locking the percussion pin (34); said locking element (42) being movable independently of the firing cycle of the firearm (1).

3. The breechblock ~~Breechblock~~ assembly (3) according to one of the preceding claims, wherein said control system (4) is constrained to said guiding element (31).

4. The breechblock ~~Breechblock~~ assembly (3) according to claim 3, wherein said guiding element (31) comprises a supporting portion (316);

said control system (4) being fixed to said supporting portion (316).

5. The breechblock ~~Breechblock~~ assembly (3) according to one of claims 1 to 3, wherein said control system (4) comprises an actuator (41) adapted to move at least one locking element (42) between: a first position of interaction with said percussion pin (34), in which ~~it~~ said at least one locking element (42) keeps said percussion pin (34) in an armed operating configuration; and a second position of release of said percussion pin (34), in which freedom of movement is left to said percussion pin (34).

6. The breechblock ~~Breechblock~~ assembly (3) according to one of the preceding claims, wherein:

said guiding element (31) comprises a housing (312);

said breechblock assembly (3) comprising a supporting element (33) adapted to be partially inserted into said housing (312) of the guiding element (31), positioning ~~itself~~ said supporting element (33) coaxial to said housing (312);

said supporting element (33) being pushed by a second elastic element (32);

said percussion pin (34) being adapted to be housed, at least partially, inside said supporting element (33);

said axial hole (352) being shaped for receiving, at least partially, said supporting element (33);

said guiding element (31), said supporting element (33) and said shutting element (35) being appropriately constrained to one another in such a way that said shutting element (35)

and said supporting element (33) are telescopically movable relative to said guiding element (31).

7. Assembly comprising:

- ~~a~~the breechblock assembly (3) having the features according to claim 1;

- ~~an~~the actuation system (14) for said breechblock assembly (3), adapted to move said breechblock assembly (3) into different positions, as a function of ~~the~~a firing phases of ~~a~~the firearm (1).

8. The assembly ~~Assembly~~ according to claim 7, wherein said actuation system (14) comprises a drum-type cylindrical cam (141) adapted to move ~~a~~the slide (314) comprised in said breechblock assembly (3).

9. The assembly ~~Assembly~~ according to claim 7 or 8, comprising ~~an~~the actuator system (16)~~, in turn~~ comprising:

- a first mechanism (162) adapted to allow closing and opening ~~a~~the breech ring (12) by acting upon the shutting element (35) of the breechblock assembly (3);

- a second mechanism (164) adapted to allow actuating the percussion pin (34) of the breechblock assembly (3) as a function of the firing phases of the firearm (1).

10. Firearm (1) comprising:

- a recoiling mass~~, in turn~~ comprising:

  - a breech ring (12);

  - a barrel (13);

  - a braking system (15), adapted to appropriately brake the recoiling motion of a recoiling mass of the firearm (1);

  - an actuator system (16) for actuating the firearm (1), moving integrally with said recoiling mass;

said firearm (1) further comprises:

- a breechblock assembly (3) adapted to connect to the breech ring (12) in order to allow firing a piece of ammunition;
- an actuation system (14) for said breechblock assembly (3), adapted to move said breechblock assembly (3) into different positions, as a function of the firing phases of the firearm (1);

characterized in that said breechblock assembly (3) is a breechblock assembly (3) according to claim 1.

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