CLAIMS:

1. Breechblock assembly (3) for a firearm (1), comprising:
- a guiding element (31) comprising 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 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 a operability and a movement of the percussion pin (34) independently of the firing cycle of the firearm (1).

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

4. The 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 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 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 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 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:

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

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

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

9. The assembly according to claim 7 or 8, comprising the actuator system (16) comprising:

- a first mechanism (162) adapted to allow closing and opening 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 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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