Claims

1. A safety device for a firearm making it possible to prevent a shot from being fired, without blocking the re-cocking function, said safety device comprising a stop able to be moved between a stopping position immobilizing the moving parts of the weapon in a rearward position and a release position allowing said moving parts to move in both directions, said safety device comprising a safety element able to move between a position of immobilizing the stop in the stopping position and a position of releasing the stop, said safety element bearing against an immobile part of the safety device, and said safety element being able to be moved toward the position of releasing the stop via a rearward movement of the moving parts.
2. The safety device for a firearm as claimed in claim 1, wherein the lifting of the stop is commanded by a release lever pivoting about a pivot pin provided on the stop and held by a hooked pawl to a trigger blade or a rocker that can be connected to or disconnected from the trigger blade upon release of the trigger blade or disconnection of the rocker until such point as the moving parts moved toward the rear of the weapon.
3. The safety device for a firearm as claimed in claims 1 or 2, wherein the safety element is placed in the path of the stop by an elastic return element.
4. The safety device for a firearm as claimed in claim 3, wherein the release of the return movement of the safety element under the stop is performed before the raising of the stop in each sear notch of the moving parts.
5. The safety device for a firearm as claimed in claim 4, wherein the advance of the release of the return movement of the safety element under the stop on the raising of the stop is obtained by longitudinal offset between the rack formed on the sliding surfaces of the moving parts acting on the safety element, and the rack formed by the sear notches of the moving parts.
6. The safety device for a firearm as claimed in claim 4 or 5, wherein the advance on the release of the return movement of the safety element under the stop on the raising of the stop is obtained by a longitudinal offset between the surface of the safety element and the sear notch of the stop.
7. The safety device for a firearm as claimed in one of claims 4 to 6, wherein the advance on the release of the return movement of the safety element under the stop on the raising of the stop is obtained by having the movement of the safety element toward

the position of releasing the stop, and the recoil movement of the moving parts being in opposite directions.

8. The safety device for a firearm as claimed in claim 7, wherein the movement of the safety element toward the position of releasing the stop via the recoil movement of the breech is obtained by means of an intermediate lever or an intermediate wheel.
9. The safety device for a firearm as claimed in one of the preceding claims, wherein the safety element pivots about a pivot pin fixed in the weapon.
10. Safety device for a firearm as claimed in claims 7 and 9, wherein the safety element is retracted by the breech by collaboration between the sliding surfaces of the breech and the sliding surface of safety element.
11. Safety device for a firearm as claimed in claim 1, wherein the safety element slides in a direction orthogonal to the movement of the stop.
12. A firing mechanism incorporating the firearm safety device as claimed in one of the preceding claims.
13. The firing mechanism as claimed in claim 12, wherein a semiautomatic-fire function is obtained by a mechanism further comprising a rocker actuating the stop, a release lever holding the stop in the release position at the start and end of firing, and a trigger blade connected to the rocker by a disconnector able either to ensure mechanical coupling between the trigger blade and the rocker, or to disconnect said mechanical coupling between the trigger blade and the rocker, said disconnector being arranged in such a way as to pivot the rocker from the firing position to the rest position, so as to prevent the next shot from being let off when the trigger blade is kept in the firing position.
14. The firing mechanism as claimed in claim 13, wherein the function of selecting the automatic-fire, semiautomatic-fire function and the function of selecting the safety function are performed by the same control for the operator.
15. The firing mechanism as claimed in claim 14, wherein the control mechanism consists of a rotary lever actuating a slider able to move in translation and allowing activation or deactivation of the functions associated with semiautomatic fire and safety, so that three positions of the lever correspond to a safety position, to a semiautomatic-fire position, and to an automatic-fire position.
16. The firing mechanism as claimed in claim 15, wherein the slider comprises a safety control slot in which there moves a safety control lug fixed to the safety element , the shape of which allows the permanent positioning of the safety element in the position of releasing the stop when the fire selector is in the semiautomatic or automatic

position, and allows the movement of the safety element between the position of immobilizing the stop and the position of releasing the stop when the selector is in the safety position.

17. The firing mechanism as claimed in claim 16, wherein the shape of the slider immobilizes the trigger blade when the safety is on and releases it when the fire selector is in the semiautomatic or automatic position.