

Device for detecting and counting shots fired by an automatic or semi-automatic fire arm, and fire arm equipped with such a device.

Device for detecting and counting shots fired by an automatic
5 or semi-automatic fire arm with a barrel and moving parts to
recock the fire arm, sliding in the axial direction (Y-Y') of
the barrel between a front position and a rear position,
whereby the fire arm undergoes accelerations in the
axial direction (Y-Y') of the barrel for every fired
10 shot, caused by a succession of shocks due to the shot
being fired and to the movements of the moving parts,
whereby the progression in time of the accelerations is
typical for a fire arm and for the type of ammunition
used, thus forming a typical signature for the fire arm and
15 for the type of ammunition, characterized in that it comprises
an accelerometer (2) with a pass band which is sensitive to
shocks in the axial direction (Y-Y') of the barrel and a
microprocessor (3) for analyzing the signal (S) of the
accelerometer (2) while firing, whereby the microprocessor
20 (3) is equipped with an algorithm to count the number of
shots fired, based on the discernment and recording of a shot
being fired on the basis of the detection, in the signal of
the accelerometer, of all or part of the characteristic
elements of the acceleration signature which is typical of
25 the type of fire arm and of the different types of ammunition
used, whereby these characteristic elements are recorded
beforehand in a memory (4) of the device.

Figure 1.