

THE NEW CLASS OF ELECTROSHOCK STUN GUNS

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The present report is devoted to further development of a kind of the non-lethal remote action weapons — electroshock stun guns.

The basic efforts of developers were aimed to improvement of tactical and technical performances of the remote action electroshock stun guns, namely to the following parameters:

- increase of the influence range under the condition of conservation of both the precision and the closed grouping of shots;
- decrease of the effective influence time for provision of the temporary target hitting due to special shape of electric signal action;
- decrease of the side striking factors of a non-electrical nature (kinetic or acoustic blow, mechanical trauma, etc.);
- improvement of the ecological characteristics of the initiating substance combustion products with the purpose of environment preservation provision;
- decrease of the cartridge mass and size;
- provision of the properties simplifying criminological examination associated with the fact of the device application.

In order to solve the tasks in view, essentially new blocks and schemes were developed along with testing methods, as well as the specific software and hardware complex to carry on biomedical examination of the device effect upon the target. The report involves testing results, schemes of experiments, theoretical substantiation of the applied methods of the statistical treatment of data and so on.

Basic peculiarity of the developed devices consists in availability of the semi-automatic mode of action thus enabling multiple applications for a number of targets within a short period of time.

Keywords: electroshock, stun guns, remote action, cartridge.