

## SOUND SUPPRESSOR WITH PERIPHERY LABIRINTH-VORTEX PROFILE FOR DIVERTING GASES

The goal of the study whose results are presented in the paper was to develop a new sound suppressor for small arms using a periphery labyrinth-vortex profile for diverting the gases.

Distributions of powder gases flows within this sound suppressor when shooting are examined. The special features of schemes of solutions are presented, and the design of inner components is described based on the effects on the operational effectiveness in relation to their modifications.

Specifications of the sound suppressors developed are presented resulting in their compact form and reliability, highly efficient silencing the report comparing well with the foreign counterparts.

Inferences about an appropriate use and the prospects of the development of new sound suppressors with the periphery labyrinth-vortex profile for diverting the gases are made.

**Keywords:** *sound suppressor, periphery labyrinth-vortex profile for diverting gases, report silencing.*

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