Advanced Armament Corporation ( )

.22LR 9.0

MAE Kilwell Whisper.22LR ( ).

9.0

9.0

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Advanced Armament Corporation ( )

Advanced Armament Corporation ( )

MAE Kilwell Whisper.22LR ( ).

9,0 .

The paper deals with information about firearms sound suppressors using elastic deformable elements, significantly springs.

9,0

5,6

The results of analysis of their designs are presented and three groups of sound suppressors are classified by concepts and operations of the springs used. The basic problems to be solved in designing such sound suppressors are specified. The possible sources of the results for multi-mass designs with springs are examined. Current sound suppressors produced by Advanced Armament Corporation (USA) are presented for .22LR and 9.0 mm caliber firearm.

The most popular MAE Kilwell Whisper .22LR sound suppressor with movable spring-actuated baffles (New Zealand) is examined. The authors developed such design for sound suppressors suitable for  $5.6 \mathrm{mm}$  (two modifications) and  $9.0 \mathrm{\ mm}$  caliber firearm. Special features of the development work of the sound suppressor design for  $9.0 \mathrm{\ mm}$  caliber firearm are presented.

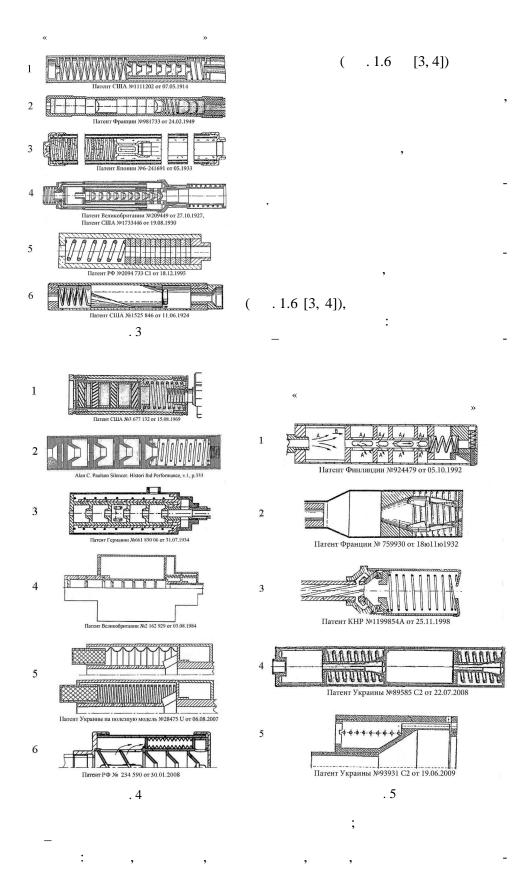
Conclusions are made for the designs developed and lines for continuing these works are proposed.

. [1].

. – 2014. – 2.

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(1, 1, 2);
                                      . 3, 4);
                                               . 5).
                           .1 - 5
                                        48612
                                                  11.05.1910
                            . 1.1).
. 1
                                                2101494
                       17.06.1971 ( . 1.3)
                                                  2256390
                       27.12.1973 ( . 1.4).
                       [3, 4].
   2013 13818 28.11.2013
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. 2



( [5] . 6 [5]). . 6 . 7 . 7) [6]. [7], 83,3%, , 28%. 40 - 49%. (77,8%).

(65,3

72%

).

Psinpt η, ) [8]. ( .8[8]) η 2, 3, m<sub>2</sub>, m<sub>3</sub> М, . 8 [9]. [10], ),  $H_{np} = nd$  ( **d** -), ), [1, 11]. (  $H_{np} = d [1, 11].$ [12, 13].

[12]. .22LR 9 Advanced Armament Corporation 2013 [14] .22LR ELEMENT  $2^{\text{TM}}$ , PRODIGY<sup>TM</sup> PILOT  $2^{\text{TM}}$ . ELEMENT $2^{\text{TM}}$  , ( . . 10) [16]. . 9 . 10

Prodigy -

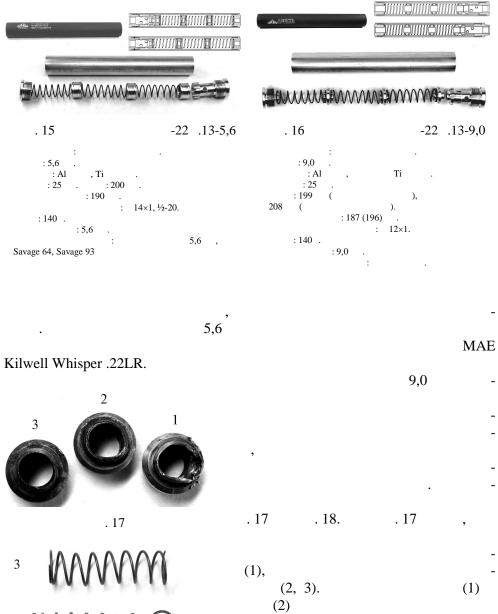
. 11) [17, 18].



. 11 . 12

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PILOT 2
ELEMENT 2 ( . . 12).
                EVOLUTION-9
             Glock, Hekler&Koch, Sig Sauer
                                                     [20].
                TI-RANT
                                                                 » (
                 <sub>2</sub> ).
            ELEMENT 2 PILOT 2 [21].
                                      .22LR 9
                                                                .22LR MAE
Kilwell Whisper .22LR
                                           . 13,
                [22].
                                                     .22LR: Auschutz, Ceska
Zbrjovka, Sako, Savage . . .
                                                          MAE Kilwell Whisper
    . 13
                .22LR
                                                                 -20 .13-5,6
                                            . 14
    : .22 Long Rifle
                                            : 5,6
    : 6061.
: 25 . 136
                                             : Al
                                            : 20 .
                                                     : 198
          : 123
                                                  : 190 .
    : 1/2×20UNF.
                           ): 13 .
                                                        : 14×1, ½-20.
  : 75 .
: .22 LR
                              "; Sub-sonic.
             : Kilwell Whisper
                                                               . 5,6 , Savage 93.
Kilwell Whisper
            : Ceska Zbrojovka, Sako, Savage, Anschutz.
                                                              . 2.1,
                                                                       . 2.2,
   . 2.3,
           . 4.5,
                    . 5.4,
                             . 5.5).
5,6
                                                9,0
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. 14, 15 16.



(2, 3).
(2)
,

9,0 :

. 18

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1. , 1980. - 326 . ,2003.-253. 3. Siegfried F. Huebner Silencers for Hand Firearms / Siegfried F. Huebner. - Paladin Press, Printed in the United States of America, 1976. - 97 p. 4. Alan C. Paulson Silencers. History and Performance, Sporting and Tactical Silencers. V. 1 / Alan C. Paulson Silencers. – Paladin Press, Boulder, Colorado, 1996. – 413 p. 6. – . 17 – 20. 2013 13818, <sup>7</sup> F41A21/30. 6. . 28.11.13. 1(13). – 2010. -8. 1970. - 320 9. ,2001. - 9010. , 1969. – 201 , 1958. – 108 12. : http://www.mirpruzhin.ru/volnovye. 13. : http://www.lesjforsab.com/techishefedern/standard\_stock\_ springs\_catalogue\_13\_russian\_id 1377.pdf 14. Advanced Armament Corporation Product Catalog, 2013, Lawrenceville, GA USA, 36 p. 15. : http://www.silensershop.com/shop/aac-element. : http://www.thetrthabboutguns.com2001/07/foghorn/silencer-16. review. 17. : http://www.Silentprecision.com/#lrimfire/c85r. 18. : http://www.KneseKungs.com/commtrcsal/Advanced-Armament-AAC. 19. : http://www.Silencers-kop.com/shop/aaac-pilot. 20. : http://www.translate.govglensercontent.com/translate\_c?depth=&hl=ru&. 21. : http://www.silucershop.com/shop/aac-ti-rant-9. 22. : http://www.mae.co.nz,01.10.2013.

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12.05.14, 12.05.14