

МИНИСТЕРСТВО ВНУТРЕННИХ ДЕЛ РОССИЙСКОЙ ФЕДЕРАЦИИ

ВОЛГОГРАДСКАЯ АКАДЕМИЯ

СУДЕБНАЯ ЭКСПЕРТИЗА

**Журнал основан в 2004 г.
Выходит 4 раза в год**

№ 2 (62) 2020

FORENSIC EXAMINATION

**The journal is founded in 2004
Published 4 times a year**

Волгоград – 2020

СУДЕБНАЯ ЭКСПЕРТИЗА /
FORENSIC EXAMINATION

2 (62)
2020

ISSN 1813-4327

Forensic examination.
2 (62) 2020 :
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ISSN 1813-4327

Forensic examination.
2 (62) 2020 :
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**Founder
and publisher Ë
Volgograd
Academy of the Ministry
of the Interior of Russia**

The journal is founded
in 2004
Published 4 times a year
with the circulation
of 500 copies

The journal is included
in the list of peer-reviewed
scientific editions
where main research
and results of PhD
doctoral dissertations
should be published

The journal is included
into the system of the
Russian science citation
index. Full-text versions
of articles and biblio-
graphic lists are placed
on the Scientific
electronic library
(www.elibrary.ru)

The Journal is registered
at the Federal Service
for Supervision
of Communications,
Information Technology
and Mass Media.
Certificate number
PI No. FS77-77511
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Subscription index
at the catalogue
Rospechat . **46462**

Website of the journal:
www.va-mvd.ru/sudek/

Editor
E. Yu. Provotorova

DTP
N. A. Donenko

Address of the editorial
and publishing office:
400089, Volgograd
region, Volgograd,
Istoricheskaya street, 130.

Signed to print:
08.06.2020

Date of publication:
27.06.2020

Format 60 84/8.
Offset printing.
Font Arial.
Physical print sheets 18,5.
Conventional
print sheets 17,2.
500 copies. Order No. 20.

Subscription price
by catalogue
Rospechat
413,44 RUB.
(2 numbers).

Printed at the printing
section of Volgograd
Academy of the Ministry
of the Interior of Russia.
400131, Volgograd
region, Volgograd,
Kommunisticheskaya
street, 36.

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DOI 10.25724/VAMVD.NHIJ

[Faint, mostly illegible text of an abstract or introduction, possibly containing a table with several rows and columns.]

D. N. Sidorenko,

Deputy Head of the Chair of Document Examination
of the Training and Scientific Complex of Expert-Criminalistic Activities
of the Volgograd Academy of the Ministry of the Interior of Russia

**SOME ORGANIZATIONAL AND METHODOLOGICAL PROBLEMS
OF TERRITORIAL BODIES OF INTERNAL AFFAIRS
IN THE IMPLEMENTATION OF FORENSIC ACTIVITIES**



The article deals with the organization of forensic activities, including forensic units in the territorial bodies of internal Affairs. On the basis of statistical data posted on the portal of the main information center of the Ministry of internal Affairs of Russia, a brief analysis of the use of forensic tools and methods in the detection and investigation of crimes in 2019.

Examines the participation of specialists-criminalists in the operational-search actions and procedural actions, including the inspections of places of incidents, and analyze complex trace information seized in the exercise of weapons of mass destruction and the efficiency of its use. Questions of production of separate types of judicial examinations, problems of appointment and their efficiency at disclosure and investigation of crimes are studied. Some issues of formation, maintenance and use of forensic accounting are covered. The problem of advanced training of forensic experts is touched upon. Conclusions about increase of efficiency of use of expert criminalistic means and methods at disclosure and investigation of crimes are offered.

Key words: forensic activities, forensic units, internal affairs bodies, disclosure and investigation of crimes, forensic examination, forensic investigation, inspection of the scene, forensic accounting, forensic tools and methods.

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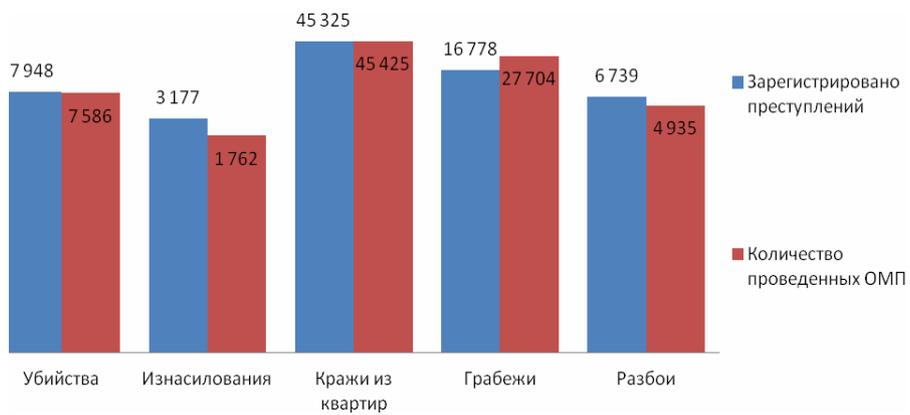
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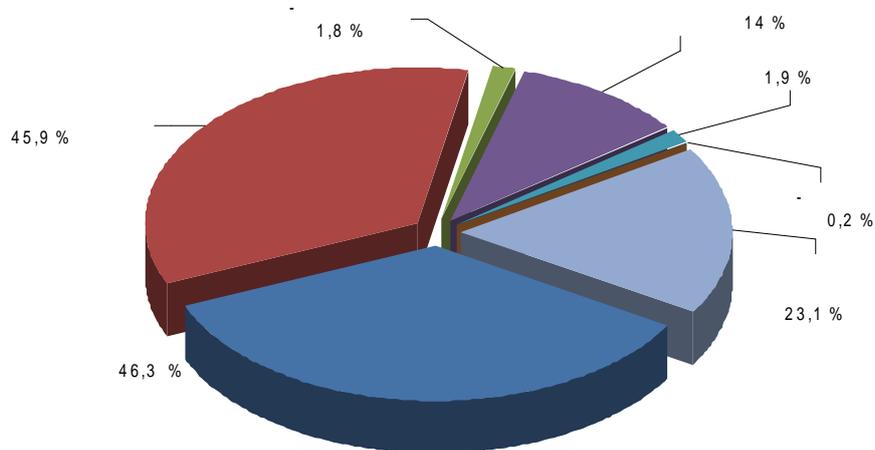
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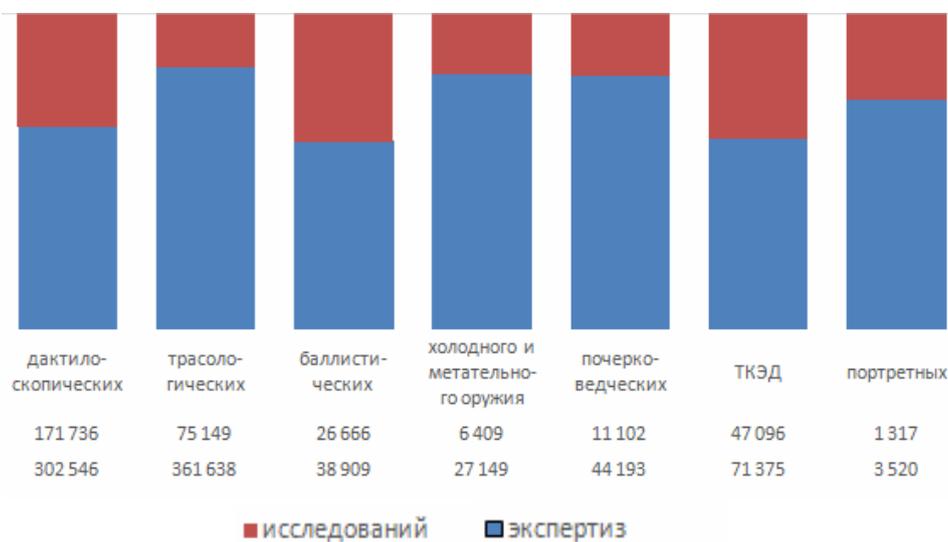




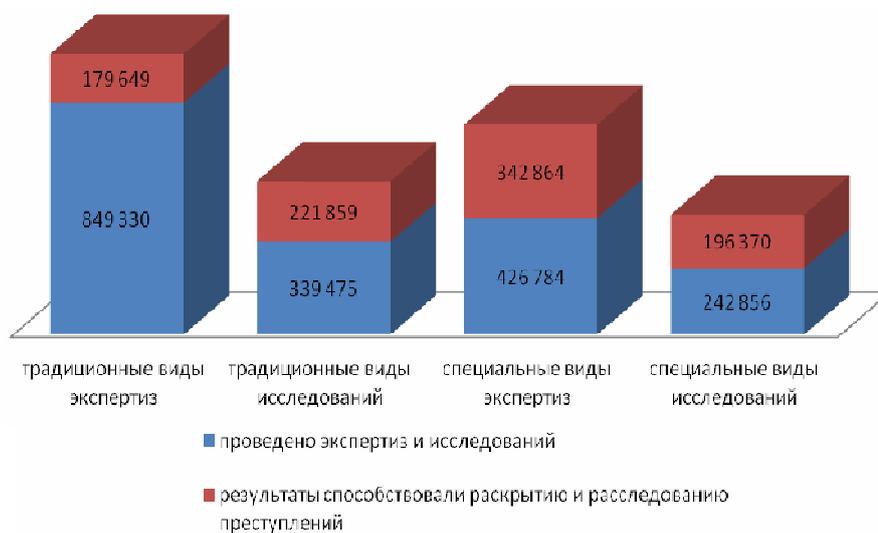
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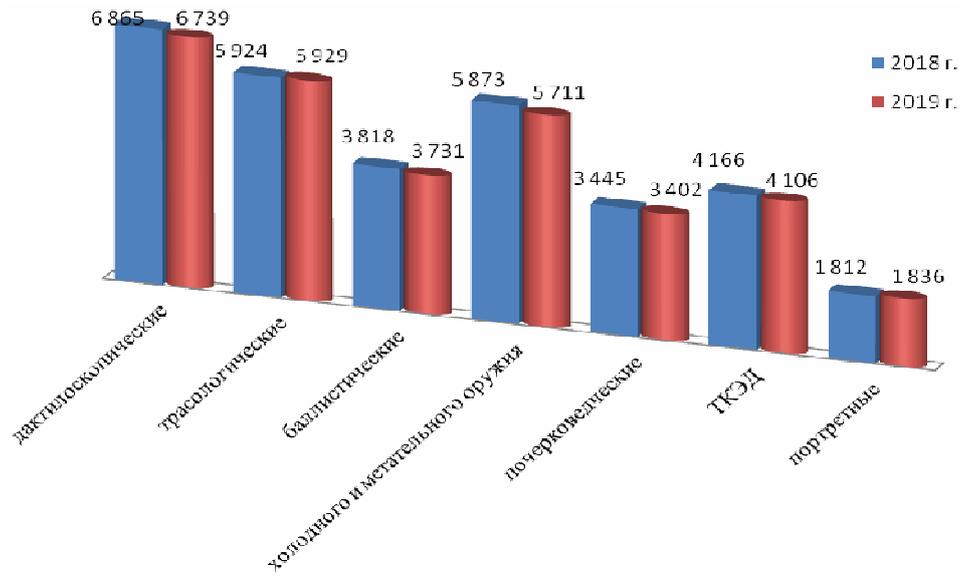


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Всего проведено экспертиз и исследований: 1 458 445. Из них: традиционные виды экспертиз - 849 330, традиционные виды исследований - 339 475, специальные виды экспертиз - 426 784, специальные виды исследований - 242 856. Результаты способствовали раскрытию и расследованию преступлений: 840 742. Процент результатов, способствующих раскрытию и расследованию преступлений, составляет 57,7%.



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2. *Review of shortcomings in the direction of forensic activities identified during inspections and control checks, as well as targeted visits to the territorial bodies of the Ministry of internal Affairs of Russia in 2016 and for 2 months of 2017 (No. 1/3498 of 27.03.2017).*

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and means of achieving the goals set. This gives a view of the steady trends in the forensic science community.

As a result, we identified those areas that are generally recognized and represent a vector of development, rather than individual tasks. This allows to put forward proposals for the implementation of each direction, determine the priority of tasks and their sequence. Thus, the article considers the main directions of development of forensic activity: centralization, unification, interaction, strengthening of legal regulation, digitalization.

Key words: non-governmental forensic science, current development, development vector, centralization, unification, interaction of forensic organizations, strengthening of legal regulation, digitalization.

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ABOUT THE PLACE OF EXPLOSIVE AND OTHER EXPERTISE IN THE SYSTEM OF FORENSIC SCIENCE (DISPUTED QUESTIONS OF THEIR CLASSIFICATION)

The article notes that, despite serious research in the literature on the classification of forensic examinations, there is still no uniform approach to their system. According to the authors, no additional official classifications of forensic examinations are allowed. This negatively affects the practice of appointing forensic examinations.



Based on the genesis of the explosive technical expertise and its main objects . explosive devices, the article attempts to trace the evolution of its nature, subject, and tasks to be reasonably go to determine the place of the named expertise in the system of other forensic examinations.

The authors note that today a number of forensic examinations are complex in nature. These include explosive, fire-fighting, computer-technical, automotive, transport and trasological examinations, technical and forensic examination of documents, and others. At the same time, they emphasize that to be guided by the universally recognized comprehensive criterion for assessing examinations and to unequivocally solve the question of which class a forensic examination belongs to, is permissible only in relation to monoexperts.

Classifications of forensic examinations, according to the authors, should be preceded by a division of all their diversity into two large groups: monoexpertises and examinations of a complex nature. The latter are proposed to be divided into the constituent varieties or types of studies, and only then it should be determined with the place of the identified varieties (types of studies) in the classification series of forensic examinations. In addition to the problem purely scientifically touched upon by the authors, there is a purely practical aspect. Moreover, the article formulates specific recommendations on the tactics of appointment and organization of forensic examinations of a complex nature.

Key words: forensic examinations, classification of forensic examinations, explosion technical expertise, explosive devices, explosives, examination of explosives and their residues after the explosion, the integrated nature of explosive examination, forensic practice, forensic examination system.

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**METHODOLOGICAL AND REGULATORY PROBLEMS
OF THE FORENSIC EXAMINATION OF ANALOGUES
OF NARCOTIC DRUGS AND PSYCHOTROPIC SUBSTANCES**

In Russian law, analogues of narcotic drugs and psychotropic substances are controlled along with narcotic drugs. Sanctions for the sale of analogues provide for punishment up to life imprisonment. At the same time, the current state of forensic examination of narcotic drugs analogues is characterized by uncertainty in the regulatory framework for the concept of narcotic drugs analogues and the procedure for their expert research.

The article analyzes the legislation of the Russian Federation, identifies the legal and methodological problems of the forensic examination of narcotic drugs analogues. The concept of an analogue of a narcotic drug or psychotropic substance is considered. It is indicated that there are no criteria for evaluating the substance alleged by the analogue. The impossibility of a forensic examination of analogues of narcotic drugs is substantiated. Suggestions were made about the need to exclude the concept of "analogues" from the Russian legal field. It is proposed to create



a body authorized to clarify the concepts and assess the degree of hazard of a substance, by analogy with the previous Standing Committee on Drug Control.

Key words: narcotic drugs, psychotropic substances, analogues, forensic examination, regulatory.

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GUNSHOT DAMAGE DATA SHEET AS AN INTEGRATIVE PART OF INNOVATIVE HARDWARE / SOFTWARE COMPLEXES

This article is devoted to an information structure on fire shot traces for its use by hardware/software complexes while automation of tasks solution with regard to establishment of fire shot facts. The form of information presentation can be a gun-



shot damage data sheet where certain criminalistically relevant characteristics of a subject of research are stated, data concerning fire shot traces detected on them will be also indicated. The authors point out that some fire shot traces data series contain general evaluative judgments what seems to be correct with consideration to a lack of an objective necessity for accurate quantitative data while designing software of hardware/software complexes.

Gunshot damage data sheet takes into consideration fire shot traces research approaches developed by the Forensic Ballistics and is suitable for automated tasks solution by hardware / software complexes. Its integration into innovative hardware/software complexes will allow a required effect in building of a system of significant criminalistics data on fire shot traces, automated comparison of traces, establishment of incident facts based on them.

Key words: forensic and ballistics examination, fire weapon, fire shot traces, hardware / software complex.

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**PECULIARITIES OF FORENSIC EXAMINATION
OF TRACES OF USING A 9 MM CZ 75 TS PISTOL**

In recent years Russian shooting sports clubs have been representing a 9 mm CZ 75 TS (tactical sports)pistol that is a modified CZ 75 pistol intended for sportsmen. However, there are only tactical and technical characteristics of this weapon in forensic literature. It significantly complicates the solution of such diagnostic and situational expert problems as determining the condition of a firearm and establishing the range and direction of a shot. To fill this gap, the authors have studied a material part of the given model of a weapon and conducted experimental examination in order to determine forensic characteristics of traces of its use. In particular, they have studied and illustrated specific features appeared in traces on discharged bullets and fired cases as well as described signs appeared in traces of a close-range shot on obstacles.

The given data will allow increasing the effectiveness of forensic ballistic examination to determine the system, a sample, and a model of a firearm as well as the circumstances of its use. Along with this, they can be used in the educational process when training cadets in Forensic Examination.

Key words: pistol, traces of a close-range shot on obstacles, firearm traces on bullets, firearm traces on cases.

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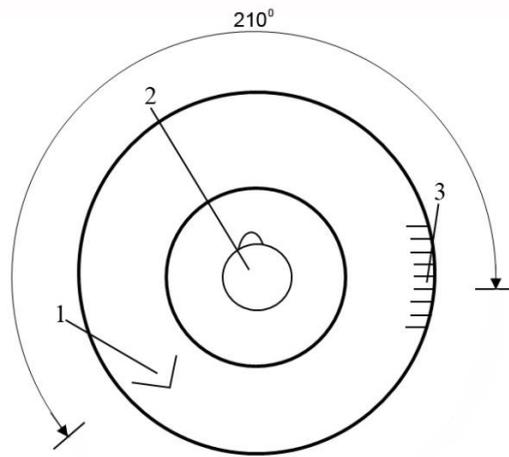
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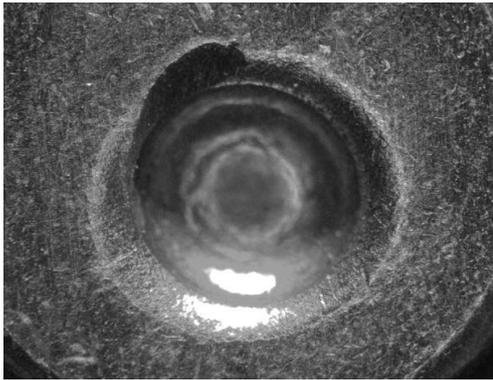
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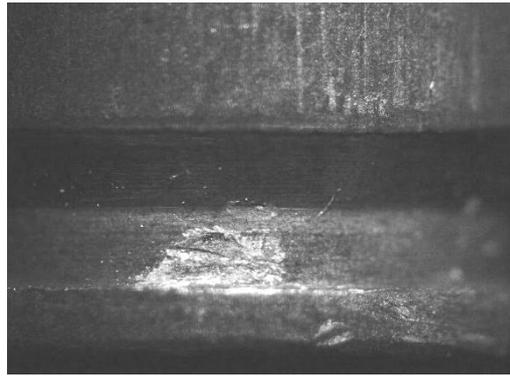
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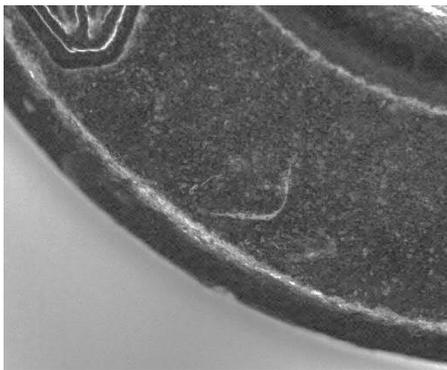
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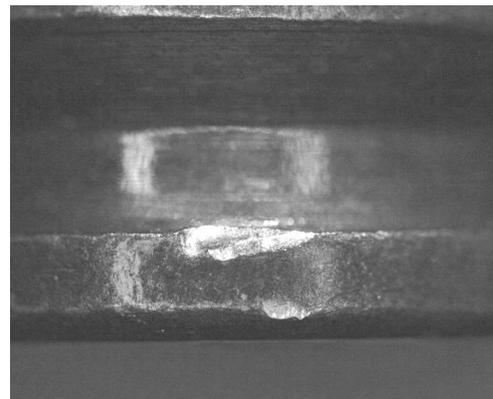
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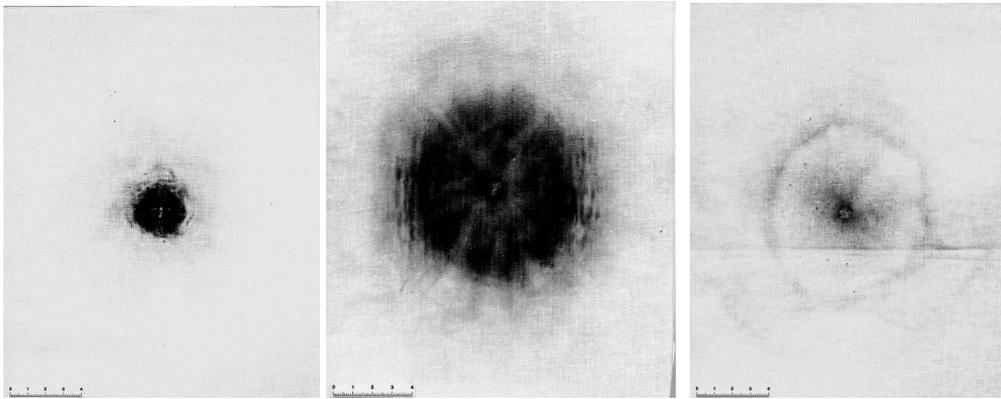
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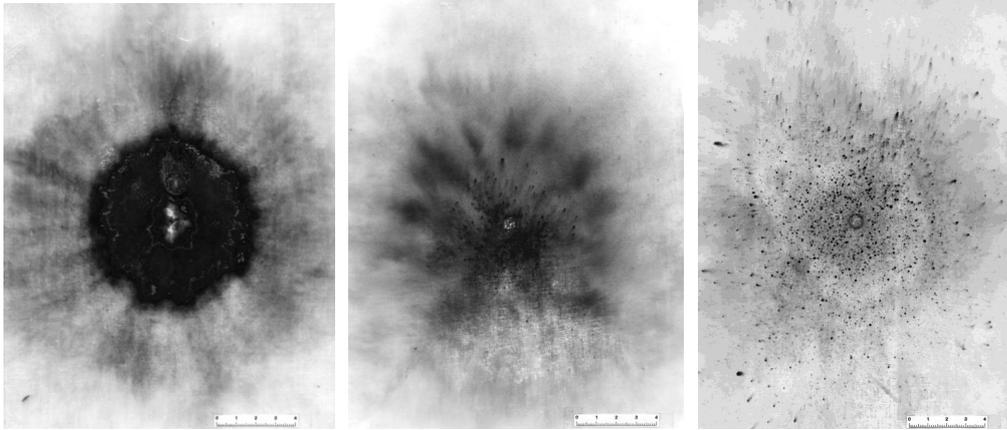
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DOI 10.25724/VAMVD.NOPQ



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**ESTABLISHING THE DESIGNATED PURPOSE
OF GLASSWARE BY ITS SHARDS**

When it is necessary to obtain operational information about the detected glass shards, their preliminary examination is to be conducted in order to determine morphological features of the external structure with the use of organoleptic, measuring and microscopical methods.

Preliminary examination of glass shards basically aims at solving three main problems such as establishing the source of origin that is belonging to a certain type of glassware, establishing the single source of origin of several shards, and establishing the cause of glassware breakage.

The type of glassware a certain glass shard was formed of can be determined by technological features which appeared when it was produced as well as features formed when it was broken. Both of these groups should be evaluated in the aggregate since each of them taken separately is not informative enough.

Forging formed by glassware stamping is the most important morphological feature of production origin.

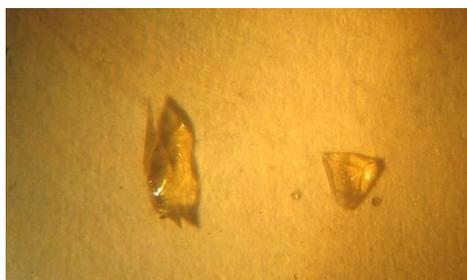
Depending on the designated purpose of glassware, different initial components are used in their production. It specifies their strength properties. When breaking glasses with different composition, glass shards with various fracture surfaces can



be formed. The higher the strength of glass, the larger the area of the fracture surface the rough zone takes. For less strong glasses the main part is taken by the mirrored zone.

Key words: glass, glass shards, preliminary examination of glass, morphological features of the end surface, production features of the surface.

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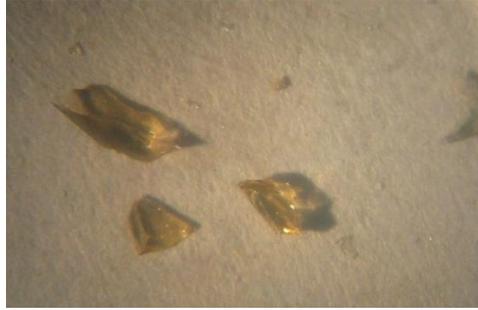
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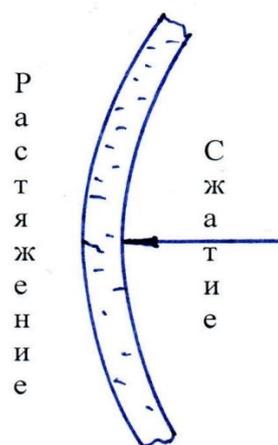
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DOI 10.25724/VAMVD.NPQR



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**THE ROLE OF SAMPLES OF THE EXPERT'S REPORT
ON FORENSIC HANDWRITING EXAMINATION
IN THE EDUCATIONAL PROCESS AND EXPERT PRACTICE**

In the authors' opinion, approximate samples of the handwriting expert's report should be prepared in two types. The first one should be intended for training, and its main purpose is to teach those who study this specialization to properly draw up the handwriting expert's report. The second one should be intended for practical activities of experts in law enforcement agencies, and its main purpose is further improvement of their professional skills. For this group of samples the authors suggest using a fragmentary form to draw up a report for groups of handwriting objects. While examining them such a form will be the most effective.

The material stated in the article will allow us to take a fresh look at approximate samples of the handwriting expert's report taking account of its types, structure, and content. The authors' point of view is supposed to be disputed by other researchers that will certainly generate a scientific discussion on the problem under consideration.

Key words: forensic handwriting examination, samples of the handwriting expert's report, its structure and content.



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DOI 10.25724/VAMVD.NQRS



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**FEATURES OF THE COMPARATIVE STAGE OF RESEARCH
IN THE PRODUCTION OF PORTRAIT EXAMINATIONS ON DIGITAL IMAGES**

The article deals with topical issues related to the features of the comparative stage of research in the production of forensic portrait examinations on digital photos and video images. It is evaluated for its special significance for the subsequent stages of expert research, including for the formulation and validity of expert conclusions.

Special attention is paid to the peculiarities of applying traditional and mathematical methods at the stage of comparative research in the production of portrait examinations of digital objects. The article highlights that in the practice of producing this type of expertise on digital images, the existing Arsenal of comparison methods is often not used effectively and not in full. In General, only the method of visual comparison of appearance features is used, and only for full-face images of the face, since this method of comparison is the main and mandatory in the method of portrait examination. Other methods are used very rarely, although in most cases the necessary conditions for the use of other traditional methods of comparing appearance characteristics were found based on the materials of expert examinations.

The authors of the article offer recommendations for the effective use of techniques and methods for comparing appearance features displayed on digital photos and video images. In particular, various methods of editing (comparisons, combina-



tions, overlays) of digital images, as well as the procedure and rules for selecting comparative samples. It is suggested to use morphological features of the external appearance of ear shells, the external surface of the hands, tattoos, etc., which together with the external appearance of the face can be included in the basis of the expert's conclusion, more actively in the comparative study

Key words: forensic portrait examination, photo-video images, comparative stage of research.

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Abstract text consisting of several lines of faint, illegible characters, possibly representing a list or a very low-contrast scan of text.

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of the Volgograd Academy of the Ministry of the Interior of Russia,
Candidate of Science (Law), Associate Professor

**POSSIBILITIES OF ANIMALS IDENTIFICATION
BY THEIR PAW AND HOOV PRINTS**

When investigating different crimes, in particular against property, there can be a necessity to conduct trace evidence examination of animal prints. Paw and hoof prints are considered to be the most widespread of them and, therefore, frequently occurring as objects of examination. However, a low rate of examinations of this type as well as an insufficiently detailed description of peculiarities of methods of their conduct in forensic literature can lead to improper evaluation of specific features and wrong conclusions. Within the framework of the conducted research the author generalizes data about the anatomical structure of animal limbs prints of which can be an object of expert practice. There is also a specified classification of print forming parts features according to which all the anatomical signs of animal paws and hooves are divided into group and individualizing ones. The results will allow expanding possibilities of identification examination on animal prints.

Key words: forensic examination, trace evidence examination, traceology, animal prints, paws, hooves, identification.



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6. Заключение	6
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9. Заключение эксперта	9

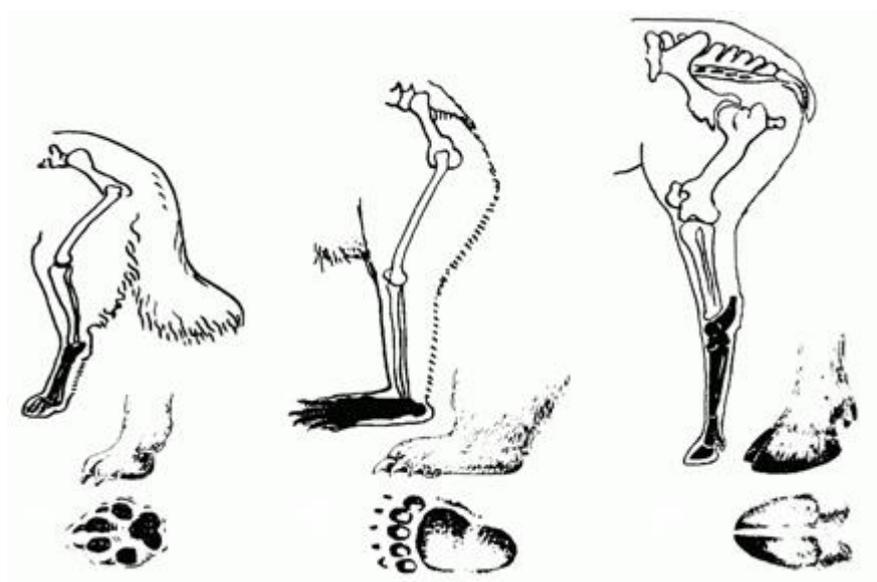
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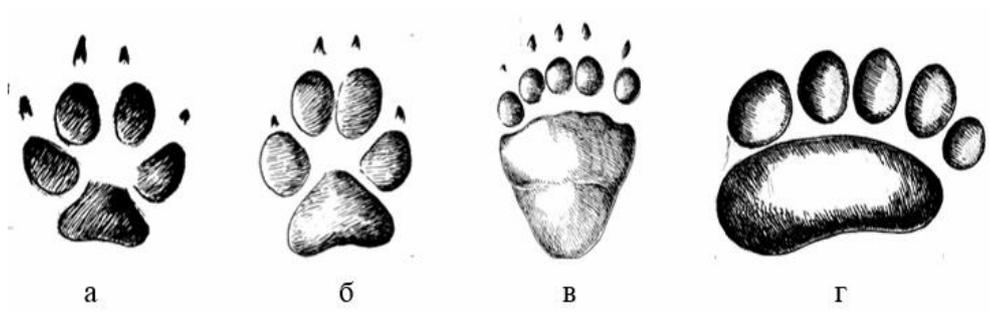
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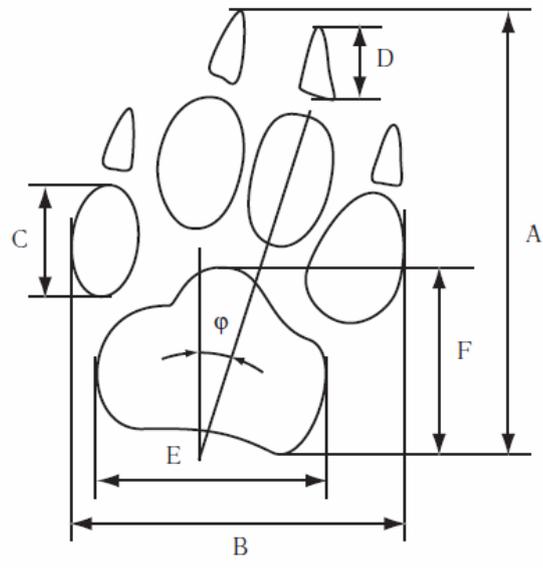
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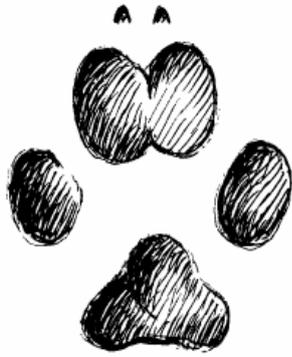
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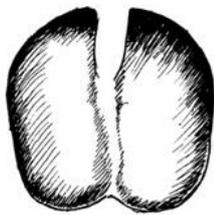
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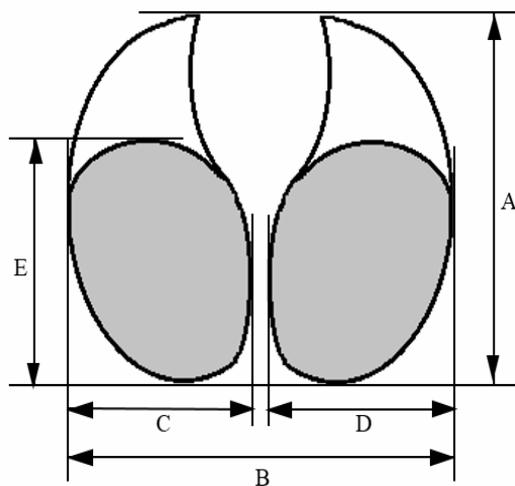
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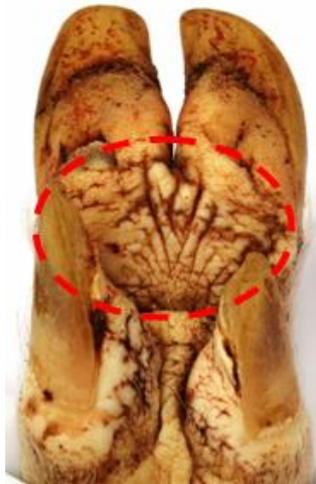
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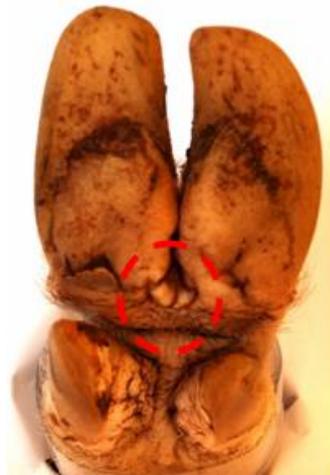
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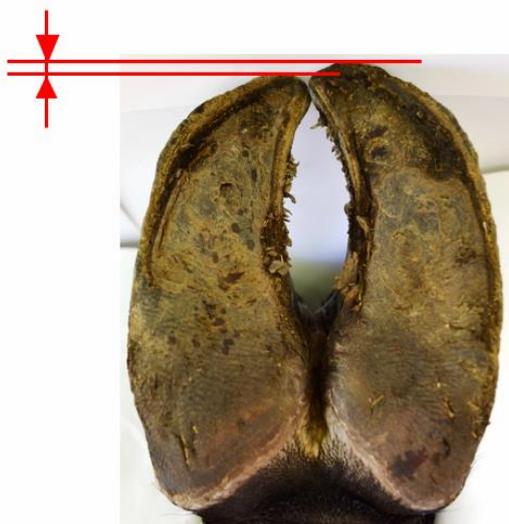
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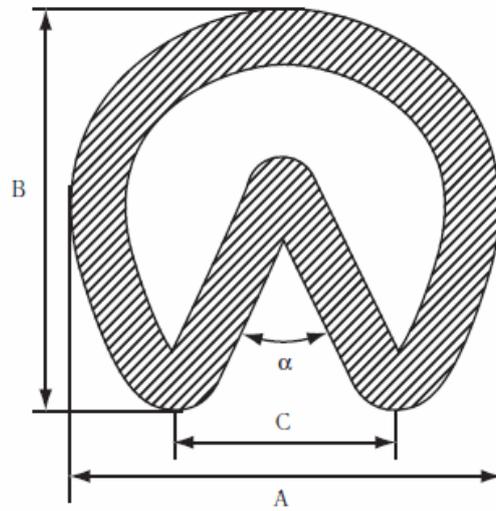
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**PYROTECHNIC PRODUCTS AS POSSIBLE OBJECTS
AND TOOLS OF CRIME**

In recent years, the number of pyrotechnic products manufactured in Russia, as well as imported from other countries, has increased significantly, and therefore, the number of incidents related to the use, production and circulation of pyrotechnic products, which in some cases become objects and instruments of crime, has increased. This article is relevant because of the increasing number of pyrotechnics that have been received by experts for research along with, a large number of crime scene inspections, especially during the holidays, are associated with the use of pyrotechnic products. Moreover, there are a lack of methods and recommendations for the production of investigative actions in the investigation of crimes within this particular category.

The article systematizes theoretical information about modern pyrotechnic products, considers the position of pyrotechnic products in modern society, including in the Republic of Tajikistan. Various definitions of the term "pyrotechnic product" are presented and an analysis of these concepts is carried out. Based on the existing classifications of pyrotechnic products, their classification was developed and presented on various grounds.

Key words: pyrotechnic products, pyrotechnics, explosives, forensic investigations, subject and instruments of crime.

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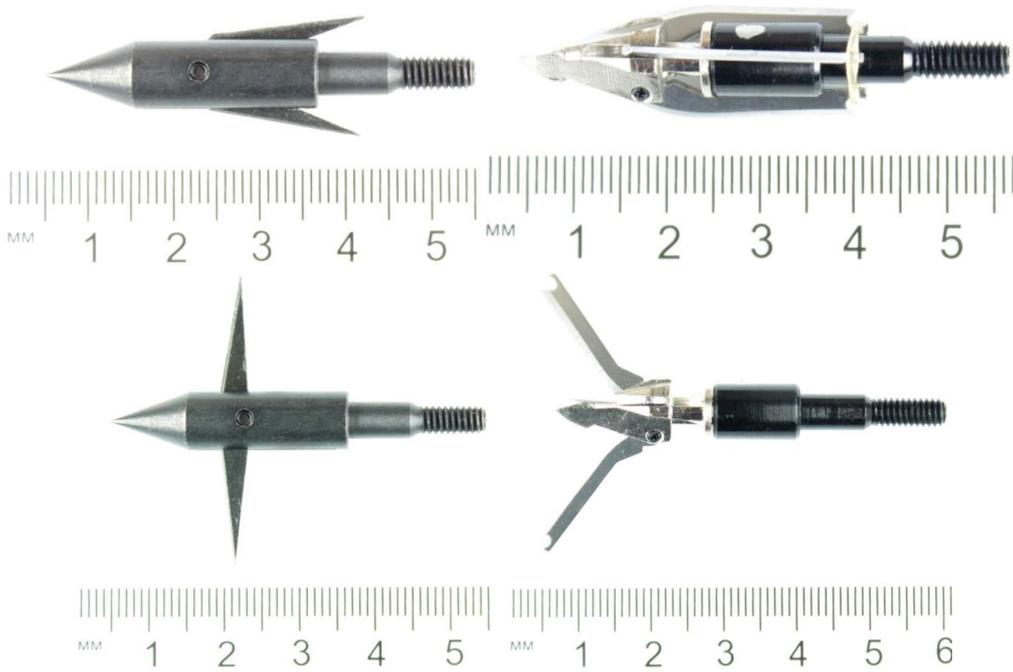
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(8442) 24-83-64, (8442) 24-83-62.