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video, dendrochronological, naming and other types of forensic examinations are considered. On concrete examples possibilities of the solution of the questions arising at investigation of crimes, by appointment of complex examinations are shown. Signs of new types of technical forgery of the signature, ways of their identification are described. The review of different approaches to solving the problems of appointment of forensic examinations is carried out.

Actual issues of activity of expert-criminalistic substitutions of law enforcement agencies at appointment and carrying out new types of judicial examination are shown. The proposals for the training and appointment of new genera and species of legal expertise. It is shown that the task of scientists and practitioners is the timely identification, search and development of ways to solve the problems of appointment of new genera and types of forensic examinations.

Key words: forensic examination, forensic experts, expert, expert methods, legal expertise, polygraph, methodological rationale, according to expert research.

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**SELF-CHALLENGE TO AN EXPERT AS AN OBLIGATION
AND ITS REGULATION IN THE PROCEDURAL LEGISLATION
OF THE COUNTRIES OF THE EURASIAN ECONOMIC UNION**

The legal status of the expert is fixed in normative legal acts regulating forensic activity and legal proceedings. However, it should be noted the lack of uniformity and inconsistency in its regulation, which does not contribute to the proper implementation of the expert's functions. Analyzing the procedural legislation of the countries of the Eurasian economic Union in terms of regulation of the legal status of the expert, the author focuses on the application for removal to the expert on participation in the case.

The procedural legislation of the countries of the EEU, even within the individual state, does not regulate the expert's self-challenge: the formulation of such an application (the right or obligation of the expert) and the circumstances in which there should be a self-challenge are different. Both general and special grounds (circumstances) are investigated for self-challenge of the expert. This expert's duty corresponds to the right of the interested participants of the process to declare the challenge to an expert. According to the author the expert's self-challenge should be regulated as an expert's duty in the presence of certain circumstances that prevent participation in the case. Summary, the author formulates the grounds for the expert's self-challenge (the statement to the challenge of expert) from the point of view of ethics, and also taking into account the competence and functional approaches.



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CONCERNING THE COMPLEX OF STUDIES WHEN CONDUCTING EXAMINATION OF WEAPONS, AMMUNITION, AND TRACES OF THEIR APPLICATION

The authors point out that comprehensive expert studies significantly expand possibilities of forensic examination and steadily tend to increase in the total number of studies. The authors emphasize that the problem of comprehensiveness of studies in forensic examination still has not been unambiguously resolved among forensic scientists. The criteria of distinguishing various forms of comprehensive expert studies stir up heated debate. In practice, comprehensive forensic examination is generally mixed with the complex of studies conducted within the framework of the same examination with participation of experts specializing in different fields.

The authors propose distinctive criteria for these similar forms of comprehensive expert studies. They point out that, at the present time, some organizational aspects of comprehensive studies mentioned by the authors still remain unsettled and, consequently, are not clearly enshrined in law. Therefore, they formulate proposals on the legislative regulation of such a form of comprehensive expert studies as the complex of studies within the framework of the same examination as well as on the more detailed legislative regulation of the legal status of a senior expert (integrating expert) as an activity organizer and head of the experts committee. The article focuses on the types of comprehensive expert studies of weapons, ammunition, and traces of their application which are considered to be the most typical for expert practice of armed crime prevention.

Key words: complex of studies, comprehensive examination, expert, weapons, ammunition, criteria.

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POSSIBILITIES OF THE PAPILLARY PATTERN SKELETAL SCHEME USE IN DACTYLOSCOPIC AND DERMATOGLYPHIC EXAMINATIONS

The article is dedicated to a papillary fingerprints methods of formalized processing. A new description of comparative characteristic of a papillary pattern is given, as a skeleton pattern scheme, which is a system for depicting the interrelation of its main elements in the form of graphic lines.

Graphic transformation of the papillary pattern image into the skeletonic scheme involves a several of successive steps. They are: receiving fingerprints on a paper sheet, scanning received prints and inputting their images on a computer monitor; the papillary pattern selection depending of its characteristic parameters: deltas and conditional lines emanating from the sleeves of delta and differentiating papillary flows in the pattern, as well as bend lines between the final and middle part of the finger; forming a skeleton ribs by graphic selection of conditional lines using computer program CoreIDRAW; skeletonization of the pattern, consisting in a grouping of all lines (ribs) into a common pattern (skelet) and separating in this form from a trace. The features of skeleton schemes construction are showing for each type of papillary pattern.

The method is directed to solve more characteristic of dermatoglyphics problem - to establish similarity or difference of tracery in the structure of papillary pattern. This way can be used as an additional research method in criminalist and forensic scientist expert diagnostic practice, for example, in establishing the identity of unidentified corpses, blood relationship between people, diagnosis of individual psychophysical properties of personality, etc. Using this method also it is possible to solve classification problems in dactyloscopy and dermatoglyphic.

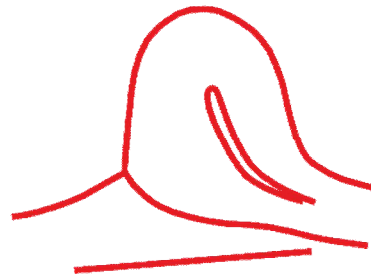
Key words: forensic diagnostics, dactyloscopy, dermatoglyphic, papillary pattern, papillary pattern formalization, skeletonic scheme, papillary pattern skeletonization.

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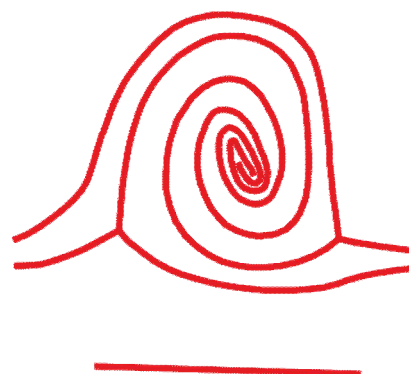
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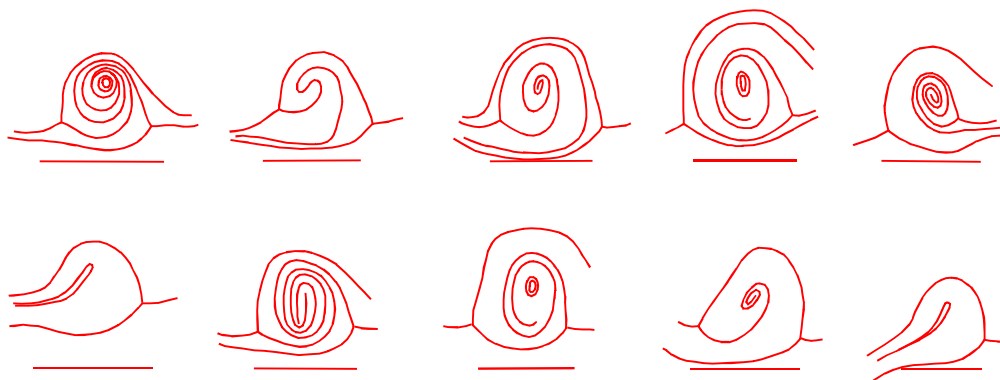


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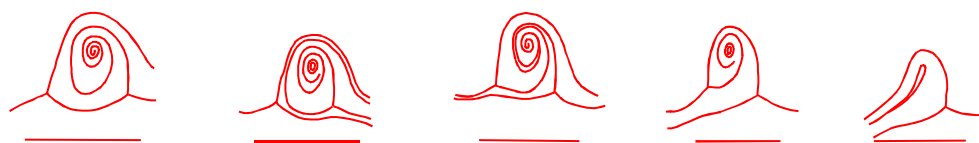
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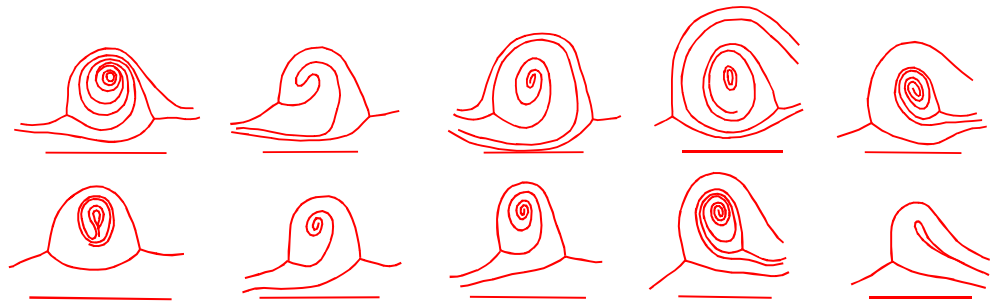
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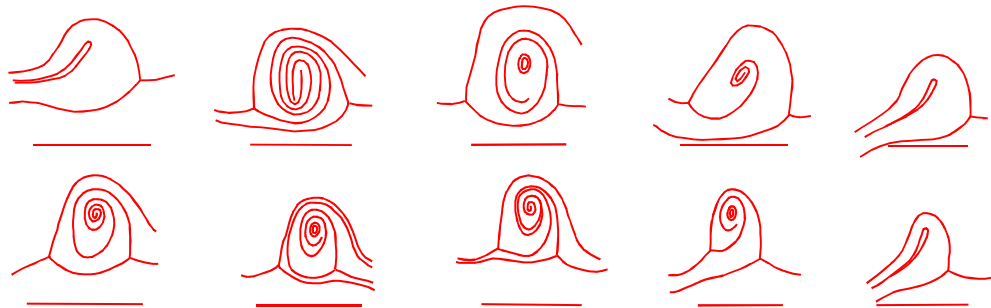
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**SOME SPECIFIC FEATURES OF FIREARM DAMAGE MORPHOLOGY
 ON CLOTH AND CLOTH BASED OBJECTS**

Experimental research results made it possible to identify specific features of firearm damage morphology on various types of cloth and cloth based materials, formed when shooting from small arms. It was noted that damage morphology depends upon design and ballistic characteristics of weapons and cartridges, shooting range, as well as properties of barrier material, i. e. cloth.

The general law behind the mechanism of damage formation on cloth is priority destruction of material from mechanical impact of bullet and gas & gunpowder jet along directions of least resistance - warp yarns and filling yarns. The identified specific features of firearm morphology damage reflect particular cases of the law effect on different types of cloth, demonstrate the impact of material properties on manifestation of the form, dimensions of inlet openings, rub-down band, material minus% cloth destruction picture in the damage circumference.



To specify the signs of firearm damage morphology it was proposed to differentiate distances of gas & gun powder jet effective range on objects out of cloth, pointing out: zones of significant impact of gas & gunpowder jet; zones of expressed impact of gas & gunpowder jet; zones of weakened impact of gas & gunpowder jet. With the rest of conditions remaining the same (weapon model, cartridge, cloth type), the morphology of damage, inflicted by expressed or weakened effect of gas & gunpowder jet on barrier, is different. This goes for dimensions of inlet openings and material minus%They are slightly larger at shooting range of 3- 5 cm, than at shooting range of 20- 30 cm. The difference in traces can be explained by the fact that at 3- 5 cm distance from the barrier, the gas & gunpowder jet has enough energy to have impact on the structure of opening, created by a bullet. The jet body affects the inlet opening edges, expanding them and knocks out a part of target barrier material.

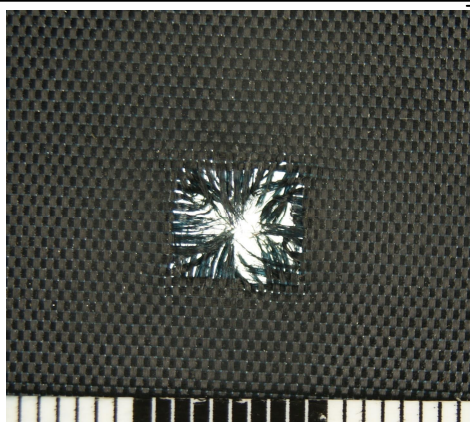
Key words: small firearms, shot phenomenon, bullet, cloth, damage formation mechanism, morphology, gas & gunpowder jet, warp yarns and filling yarn.

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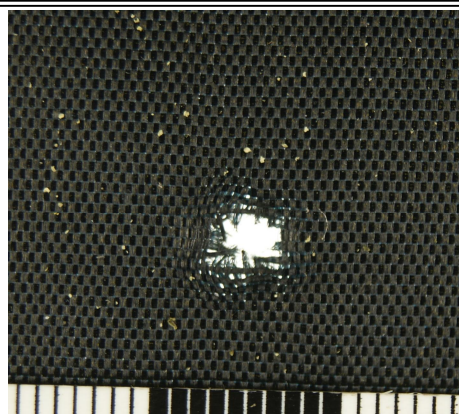
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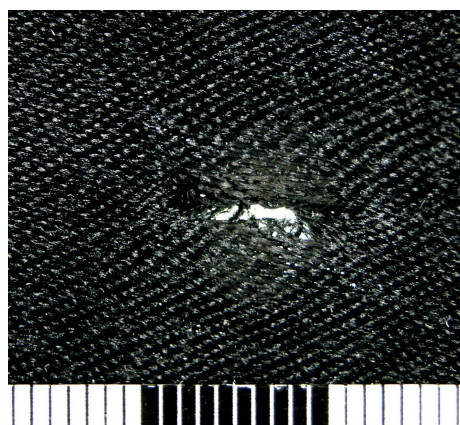


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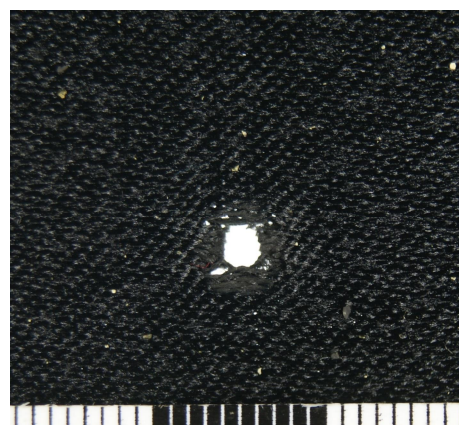


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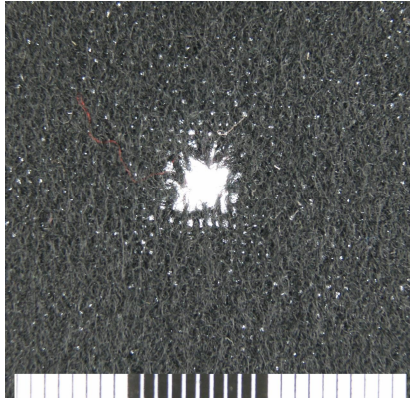
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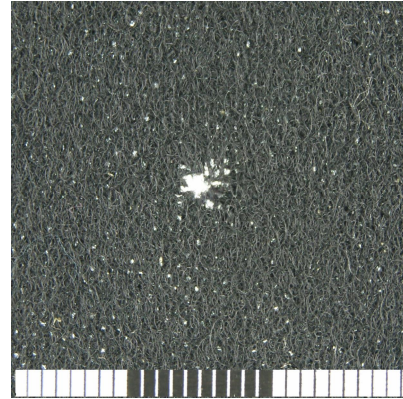


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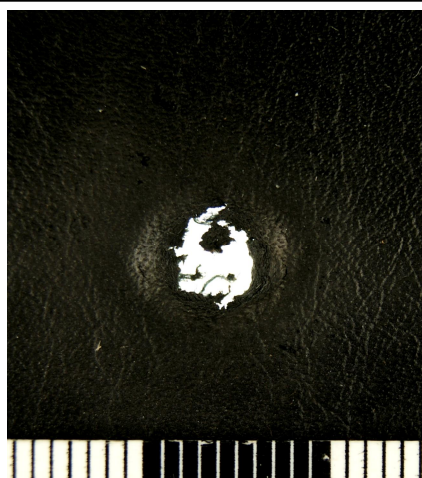
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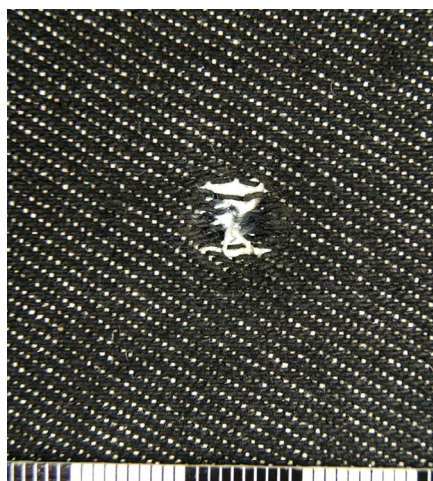
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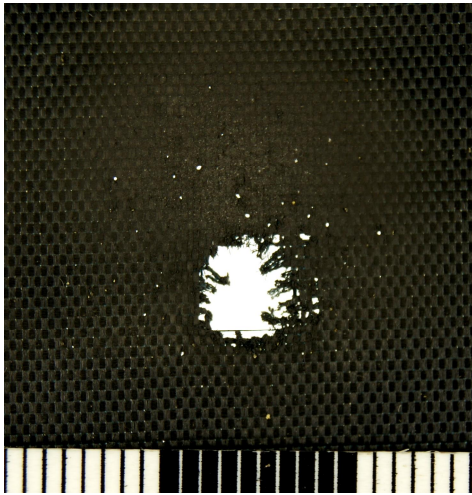


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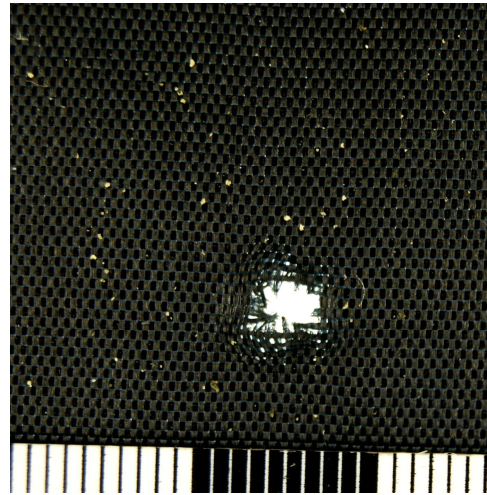
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**FALSIFICATION OF WRITTEN EVIDENCE:
FROM THE EXPERIENCE OF EXPERT EXAMINATIONS OF DOCUMENTS**

The article focuses on one of the aspects of the relevant problem of falsification of written evidence in conditions of present-day adversarial proceedings. The author emphasizes that implementation of the constitutional principle of adversariality and equality of parties before the court providing each party with the right to present evidence is often accompanied by such an action as falsification of written evidence. It is confirmed by official statistics.

Through the particular examples from court and expert practice, the article represents possibilities of forensic technical examination of documents in order to establish facts and circumstances related to falsification of written evidence in legal proceedings. The author analyzes different literature sources and distinguishes main techniques of falsification of written evidence: making signatures or notes on behalf of



individuals authorized to authenticate documents by other individuals, amending the initial content of document attributes by additional writing (typing) of signs or notes, replacing sheets in a multipage document, imitating signatures and impressions of authenticating printing forms, and exerting influence on a document by various aggressive environments. On the basis of her own expert experience, the author comes to the conclusion that it is possible to identify a qualified forgery of documents, which is mostly accompanied by falsification of written evidence, only by means of assigning and conducting forensic examinations.

Key words: falsification of written evidence, forensic technical examination of documents, document attribute, adscript, seal impressions, establishing a period of time when document attributes were fulfilled.

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№ п/п	Наименование предметов	Количество предметов	Объявленная ценность, руб.
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2	<u>Приложение №1</u> <u>на 1 листе</u>	1	
3	<u>КС-2, № 307 от 26.01.13</u> <u>на 2-х листах</u>	1	
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Общий итог предметов и объявленной ценности 1 рубль
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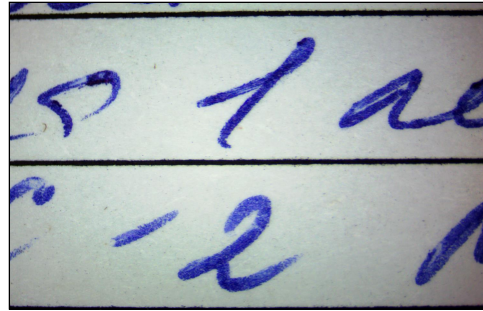
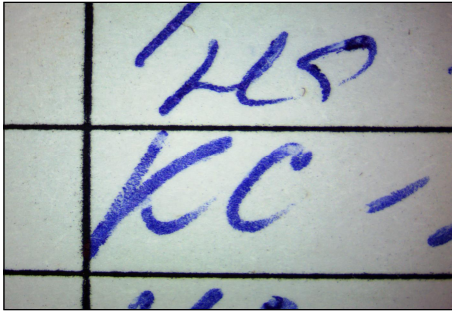
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1	Уск. №31 от 25.02.13 1 шт 1 мкр.	1	
2	Приложение №4 1 шт 1 мкр.	1	
3	КС № 307 от 07.13 1 шт 1 мкр.	1	
4	КС № 307 от 07.13 1 шт 1 мкр.	1	
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Остаток этих предметов в
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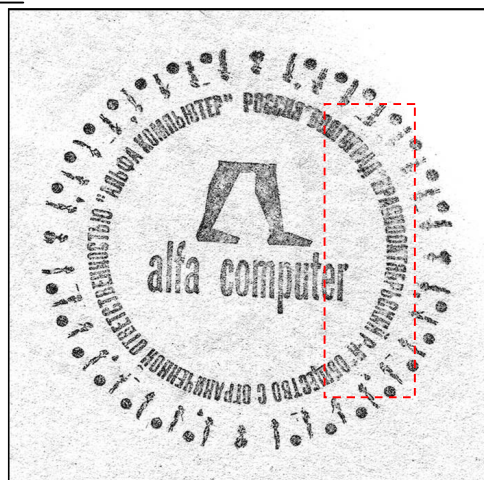
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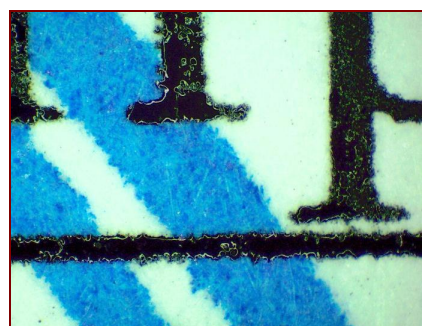
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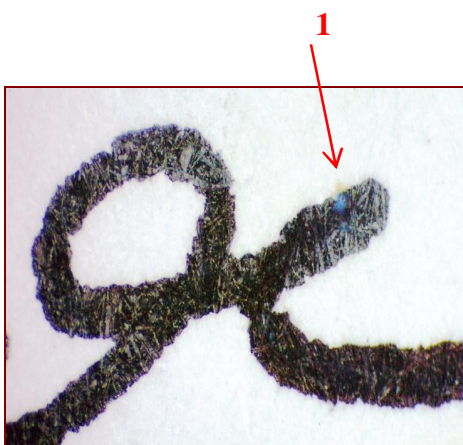
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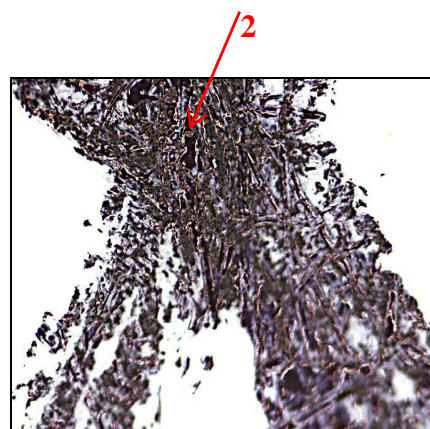
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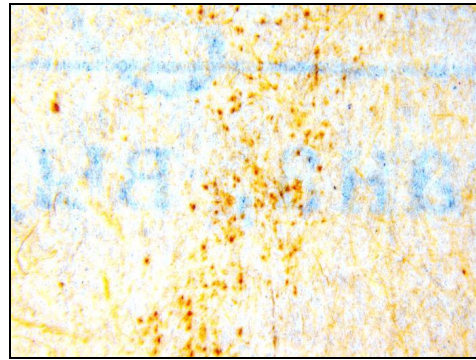
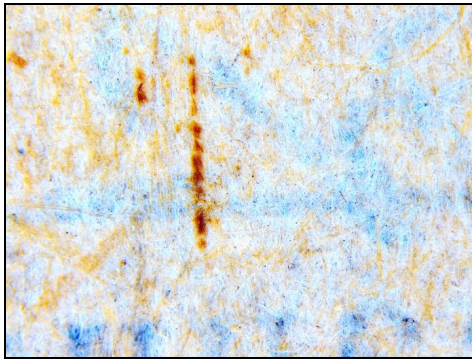
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**CONCERNING THE FORENSIC EVALUATION
OF SUPPRESSORS FOR FIREARMS**

To cover up crimes stipulated by Article 258 of the Criminal Code of the Russian Federation «Illegal Hunting», criminals often attach to rifled firearms various muzzle devices reducing the sound intensity of a shot. However, according to the Federal Law No. 150-FZ of December 13, 1996 «On Weapons» it is prohibited to sell and attach them to civilian and service weapons.

When conducting forensic ballistic examination the forensic evaluation of sound moderators (suppressors) causes certain difficulties. The article represents design characteristics of these devices. As a result of the comparative analysis, the authors come to the conclusion that sound moderators by their design and designated purpose are considered to be suppressors. Therefore, it is illegal to sell and attach them to weapons in the territory of the Russian Federation.

This article is intended for forensic experts conducting forensic ballistic examinations as well as for cadets and trainees of higher education institutions of the Ministry of Interior of Russia studying Forensic Ballistics and Forensic Ballistic Examination.

Key words: suppressor, firearms, sound moderator, forensic ballistic examination.

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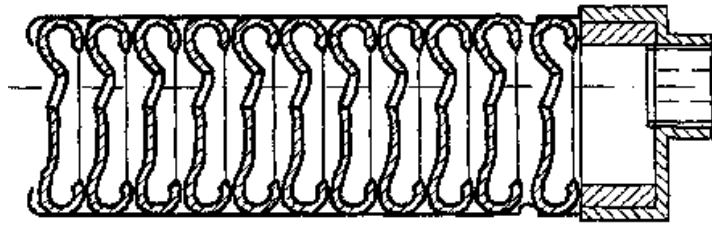
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ABOUT OPPORTUNITIES OF DIAGNOSTIC TESTING OF SHORT HAND-WRITTEN RECORDS

In article topical issues of diagnostic testing of short hand-written records and also difficulties which handwriting experts at a research of less informative hand-written records face are considered.

The author of article pay attention that the quantitative regularities connected with indicators of different frequency of manifestation (repeatability) of private signs of handwriting, which have well proved at a research of similar alphabetic texts extend in separate expert situations and to short similar records of different faces of alphabetic structure, can be respectively successfully used for their differentiation. At the same time separate kinds of these regularities are characterized by individual or group indicators of a quantitative ratio of the coinciding and differing signs of handwriting, their qualitative originality that allows to solve separate classification and diagnostic expert problems.



On the basis of the pilot study of representative handwriting material conducted by the author the quantitative parameters of level of abnormal similarity of short alphabetic records of different persons characteristic of influence of special similar factors have been determined: sexual, age, psychological, professional, genetic and family and also caused by unusual conditions of the letter. It has allowed to establish summary threshold indicators of levels of natural (normal) and abnormal similarity of short records of different persons.

In article examples how the received quantitative regularities will allow to expand modern opportunities of a judicial studying of handwriting in the solution of the difficult classification and diagnostic expert tasks directed to verification of investigative (judicial) and other versions about possible participation of various persons in performance of disputable short alphabetic records are given.

Key words: judicial handwriting examination, similar handwriting, similar factors, short hand-written records, regularities of quantitative distribution of private signs of handwriting, diagnostic research of handwriting.

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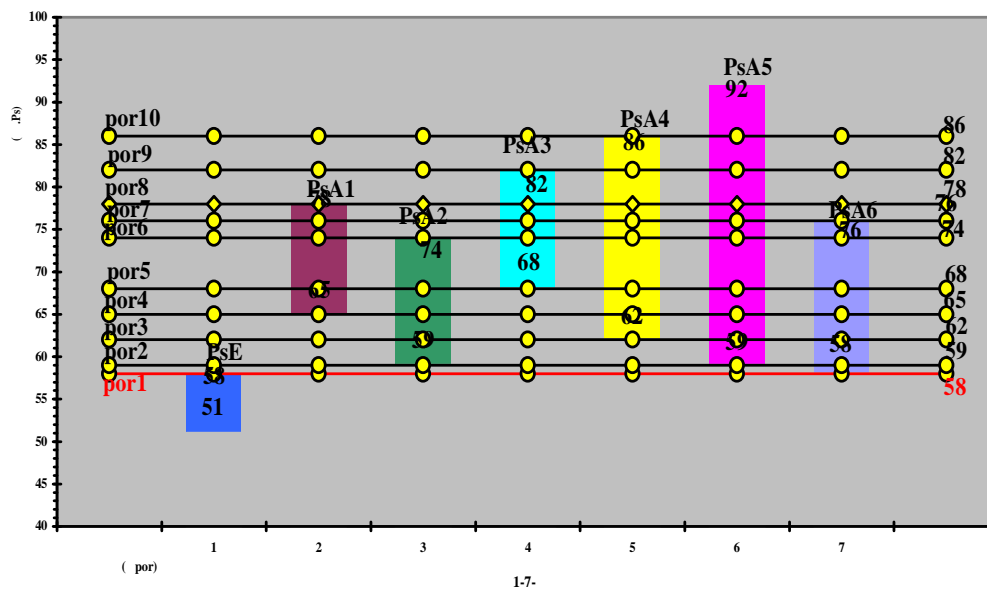
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**FEATURES OF THE CRIMINALISTIC EXAMINATION
OF SELF-MADE INCENDIARY DEVICES**

The article deals with the main issues arising during the forensic examination of self-made incendiary devices (SMID). The latter are considered to be complex specially developed technical devices used for intended initiation of burning during arson. The identification of self-made incendiary devices fragments at the fire scene after their usage is rather complex task. It requires the use of a variety of specialized knowledge for its solution.

The authors of the article formulate the main features that make it possible to classify the mentioned object into the category of self-made incendiary devices (SMID) as



well as to conclude that firing at the fire scene has been a result of intended arson by means of self-made incendiary devices. The authors point out the main criteria according to which it is possible to determine that the objects seized from the arson scene relate to self-made incendiary devices fragments.

The authors also notify that the total of the characteristics of the self-made incendiary devices (general scheme of functioning, composition of the incendiary substance, design of the trigger, device of deceleration, etc.) possesses unique forensically significant information suitable for fixing and following using to solve the detective activity tasks and to investigate criminal cases. In the result of its analysis, it is possible not only to establish the source of the origin of substances and materials used while manufacturing self-made incendiary devices, but also to determine the skill level of the manufacturer in various fields of knowledge and skills. This will permit to accelerate significantly the solution of the main task of solving crime - identifying the person involved in crime commission.

Key words: fire, arson, self-made incendiary device, fire scene search, solving and investigating crimes, incendiary substance, ignition device, fire-engineering examination.

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320



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**FEATURES OF THE PRODUCTION OF FORENSIC PORTRAIT EXPERTIS
ON DIGITAL PORTRAITS AND VIDEO IMAGES
AT THE PRELIMINARY STAGE OF THE STUDY**

The article deals with topical issues of portraits expertise on digital video images at its preliminary stage of research. Its value is estimated for the subsequent stages of the expert study.

The main attention in the article is given to one of the most important issues of the preliminary stage – the preparation of a comparative material. It is from this action that the results of the whole study largely depend. According to the authors, the preparation and receipt of samples for further identification research should be carried out at the stage of preliminary research taking into account the characteristics of the received object and the metadata obtained from the files under investigation.

Based on the personal experience of the production of forensic portraits and the analysis of 320 expert studies on digital images from practice, the article gives recommendations on the production and fixation of each stage of the preliminary stage of the study in the expert's conclusion.

Key words: forensic portraits, digital portraits and video images, preliminary stage of research.

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**MODERN STATE OF THE RESEARCH PRACTICES
OF DIGITAL PHOTOGRAPHIC IMAGES
WITH SIGNS OF DIGITAL RETOUCHING AND INSTALLATION
WHEN CARRYING OUT IT IS JUDICIAL-PORTRAIT EXAMINATION**

Among the provided objects for identification of persons on signs of appearance digital facsimiles meet the changes made to them which research in practice causes difficulties in communication in experts imperfection of a technique of a research. If for modification of the images received in the traditional (analog) way the retouching methods based on mechanical and chemical impact on a photographic material surface were used, then digital methods of modification directly of the image are applied to modification of the facsimiles received by means of digital devices, without affecting at the same time structure of a photographic material.

The complexity of a research of digital facsimiles in difference from the images produced in the traditional (analog) method is that signs of modification of the facsimiles produced in the traditional (analog) method are well studied and described in criminalistic literature. In the program of training of judicial experts in the field of portrait examination methods of a research of facsimiles regarding identification of signs of an analog retouch and installation while, studying of methods of identification of signs of a digital retouch and photomontage aren't provided are studied. In this regard the experts who are carrying out portrait examinations have no special knowledge of establishment of signs of a digital retouch and as a result, digital facsimiles of persons are investigated not fully, that is at the same time the individualizing signs which can form the basis for an objective conclusion aren't considered. In article solutions of this problem are stated. According to authors, introduction to the program of training of experts is necessary, I have undressed on studying of ways and methods of identification of signs of a digital retouch and installation. The solution of this problem will



allow to conduct at higher qualitative level expert researches of digital facsimiles within portrait examination without involvement of experts from area of photo technical expertize.

Key words: digital photos, appearance elements, digital retouch, photomontage, preliminary stage of a research, graphic editor, art retouch, light sites, shadow sites, optical density.

В настоящее время в области судебной экспертизы активно используются цифровые технологии. Одним из направлений является исследование цифровых копий (факсимиле) портретов. Для повышения качества и скорости проведения таких исследований необходимо привлечение специалистов из смежных областей, таких как фотохимия и фотофизика. Однако в настоящее время в области судебной экспертизы не хватает специалистов, способных проводить такие исследования на более высоком качественном уровне. Это связано с тем, что в настоящее время в области судебной экспертизы не хватает специалистов, способных проводить такие исследования на более высоком качественном уровне. Это связано с тем, что в настоящее время в области судебной экспертизы не хватает специалистов, способных проводить такие исследования на более высоком качественном уровне.

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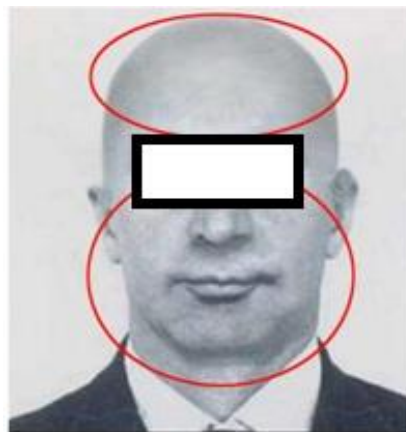
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Судебная экспертиза, 2012, № 98-100.

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**TO THE QUESTION OF JUDICIAL EXAMINATIONS
PORNOGRAPHIC PRODUCTION**

In article the main problems connected with conducting examinations of pornographic production are designated: complexity of differentiation of pornographic production from works of erotic art and also difficulty of determination of criteria according to which it is possible to establish whether materials and objects belong to pornographic.

Criminalization of this phenomenon in the legislation of different countries is considered. In the analysis of definition of information of the pornographic character% which is contained in the Federal law of December 29, 2010 No. 463-FZ «About protection of children from information doing harm to their health and development%» the lack of the instruction in him on the main sign of pornographic production - focus only on stimulation of sexual excitement is noted. The attempt of the solution of a question of reference of the pornographic production created in the form of animation and computer graphics (the «drawn» pornography) to a pornography or to a sensuality is made. The conclusion is drawn that it is desirable to qualify the fact of use of the image of the child as a sexual and erotic object as a pornography. Besides authors formulate concrete recommendations about improvement of the current legislation in this sphere and practice of its application.

Key words: pornographic production, pornographic materials and objects, pornographic materials and objects with pornographic images of minors, the Internet.

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ONE OF REMAKE METHODS OF LIMITED DESTRUCTION FIREARMS AND IT'S CARTRIDGES TO INFLICT LETHAL INJURES

The article is dedicated to a limited destruction firearms ways of remake to inflict lethal injures during shots. A short development discuss of traumatic weapons in Russia is given. Also there is the limited destruction firearms remake methods trace classification depending on a trace's changes and locations. The structure of limited destruction firearms barrels is featured and their structural elements which are rework to be possible metal shell shots.

The irreversible changes traces of limited destruction firearms barrels are described, formed during the remake. The practice of forensic scientist examination remake of limited destruction firearm and ammunition example is given, as a result their purposes and striking characteristics were changed. The places on a weapon and traumatic action cartridges are showed, which it is necessary to pay attention to establish constructive changes.

Key words: limited destruction firearms, traumatic gun, barrel channel, barrel bores, the weapon remake traces, a traumatic action cartridge, metallic shell, lethal injures.

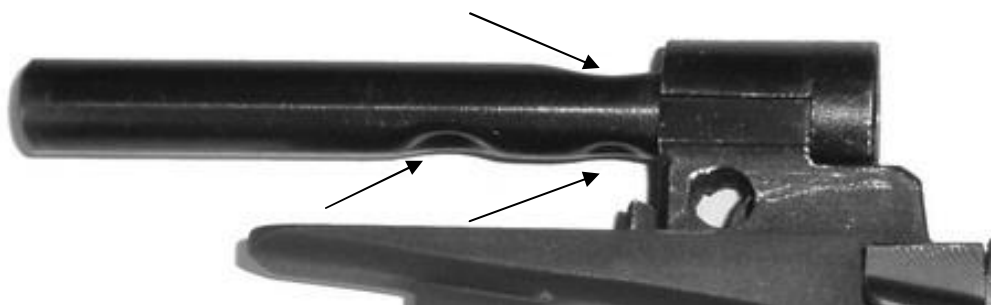
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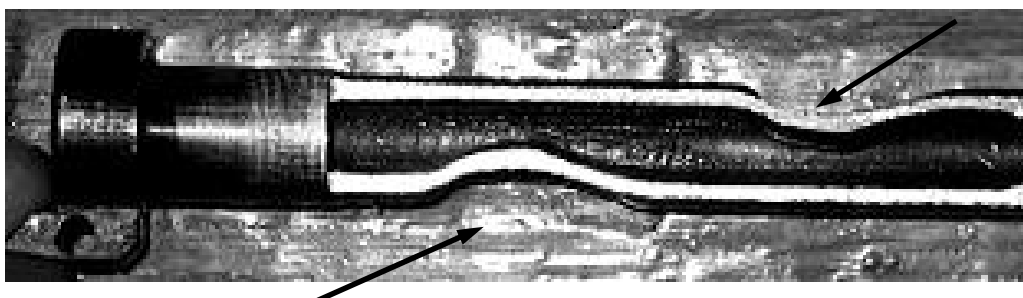


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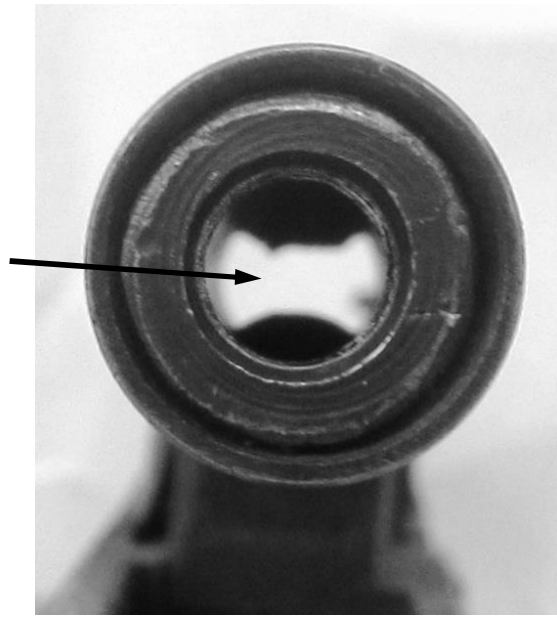


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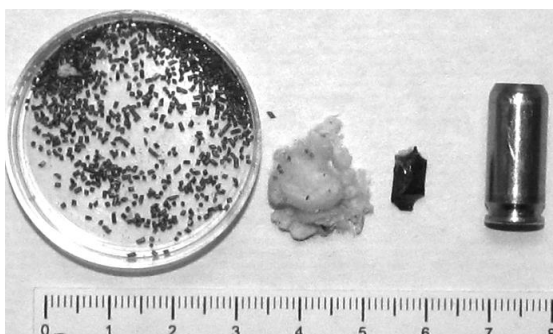
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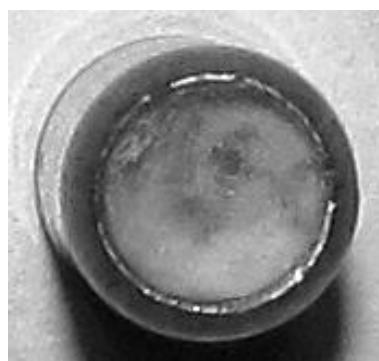
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