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I. A. Danilkin,

Chief of the Expert-Criminalistic Center of General Directorate of the Ministry of Interior of Russia across Moscow, Candidate of Science (Law);

V. M. Danilkina,

Senior Lecturer, Chair of Criminal Law of the Moscow University of the Ministry of Interior of Russia n. a. V. Y . Kikot, Candidate of Science (Law)

FEATURES OF USE OF SPECIAL CONSTRUCTION AND TECHNICAL KNOWLEDGE AT INVESTIGATION OF ECONOMIC CRIMES IN THE SPHERE OF CONSTRUCTION

Successful identification and disclosure of economic crimes in the sphere of construction is promoted by the correct use by law enforcement officers of special construction and technical knowledge at stages of initiation of legal proceedings and preliminary investigation. Special knowledge allows to establish the actual circumstances of crime and to make the justified decisions during judicial proceedings.

At investigation of all types of economic crimes in the sphere of construction special knowledge is used not only in a procedural form, but also in the form of consultations and special researches within investigation and search operations, before initiation of legal proceedings. On the brought criminal cases judicial construction technical expertizes, as a rule, are appointed. In many cases charge is based on the data established within production of judicial construction technical expertize.

The most widespread in the construction sphere economic crimes and characteristic aspects of their investigation are considered in the article. The author revealed a number of the key features arising at investigation of these crimes by means of use of special construction and technical knowledge. The specifics of the correct use by subjects of criminal prosecution of special construction and technical knowledge at stages of initiation of legal proceedings and preliminary investigation are considered. Recommendations for the investigator according to proofs on the conducted expert research are provided.

Key words: investigation, economic crimes, sphere of construction, use of special knowledge, construction technical expertize.

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1. 2004 . 190- (. 19.12.2016). : . 29 -
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3. : . ∴ ,
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4. - // .
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6. : . 2 . . 1 / . .
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7. / . . . , . . -
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8. /
∴ , 2012. . 7. 54.
9. :
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2011. 368 .
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References

1. Federal law No. 190-FZ of 29 December 2004. *Town-planning code of the Russian Federation* (in edition of the Federal law of 19.12.2016). Available from: reference and legal system ConsultantPlus.
2. Federal law No. 63-FZ of 13 June 1996. *The Criminal Code of the Russian Federation* (in edition of the Federal law of 07.02.2017). Available from: reference and legal system ConsultantPlus.
3. Averyanova T. V. *Judicial examination: A course of the general theory*. Moscow: Norm ; 2008: 292. 293.



4. Butyrin A. U., Danilkin I. A. Specifics of a subject of judicial construction technical expertise of the reconstructed building. *Forensic examination*. 2016; 47 (3): 63. 71.

5. Butyrin A. U., Danilkin I. A. Production of judicial construction technical expertizes in the conditions of insufficiency of basic data. *Forensic examination*. 2018; 53 (1): 54. 60.

6. Grabovyy P. G., Voronin V. A. *Examination and inspection of investment processes: the textbook for higher education institutions*. In 2 parts 1 / under a general edition of P. G. Grabovyy, A. I. Solunsky. Moscow: ; 2006: 458 p.

7. *Organization and technique of investigation of separate types of economic crimes: An educational and methodical grant / Under the editorship of A. I. Bastrykin, A. F. Volynsky, V. A. Prorvich*. Moscow: Publishing house Sputnik+; 2016.

8. *The collection of methodical recommendations about production of judicial construction technical expertizes / under a general edition of the DSc (Law) A. U. Butyrin's sciences*. Moscow: FBU RFTsSE at the Ministry of Justice of the Russian Federation; 2012: 7. 54.

9. *Construction technical expertise in modern legal proceedings: textbook / A. U. Butyrin, U. K. Orlov; State establishment the Russian federal center of judicial examination at the Ministry of Justice of the Russian Federation*. Moscow: RFTsSE; 2011: 368 p.

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M. V. Starichkov,

Head of the Chair of Criminalistics of the East-Siberian Institute of the Ministry of Interior of Russia, Candidate of Science (Law), Associate Professor;

O. V. Trubkina,

Associate Professor of the Chair of Criminalistics of the East-Siberian Institute of the Ministry of Interior of Russia, Candidate of Science (Law), Associate Professor

FORENSIC EXAMINATIONS IN IDENTIFYING FALSE DENUNCIATION WHEN INSPRESENTING RAPORATIONS

The article deals with the features of the staging implementation by the applicant in case of a false denunciation of rape, characterizes the typical mechanism of marking formation, defines the role and possibilities of forensic examinations in its identification, some features of their purpose and. These data are based on the analysis of scientific literary sources, the results of law enforcement agencies, the study of law enforcement materials and statistical data, the survey of employees of the investigative and operational units of the Irkutsk region justifies the relevance of the topic; tracing, determines the role and possibilities of forensic examinations in her revealed some features of their purpose. Questioning, a summary of judicial and investigative practices, logical-legal and statistical methods, and comparative legal analysis were used during the research work. Special attention was paid to the mistakes of the investigators made in the appointment and preparation of some of the most important for the staging examinations. Some recommendations were presented to officials of the preliminary investigation bodies, aimed at identifying false denunciations of rape



through the appointment of examinations. The possibility of elements of expert research were analyzed and formulated as well. The author has determined that the results of forensic examinations can serve as a basis for bringing the guilty party to criminal responsibility for a deliberately false denunciation of rape.

Key words: criminalistics, staging, the victim, a false denunciation, observation of the crime scene, rape, preparation, traces, examination, mistakes, the order on the appointment.

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[12, . 23].

[13, . 55].



1. URL: <https://mvd.ru> (: 10.04.2019).
2. 11 2012 . (-) . URL: <https://sudact.ru> (: 27.02.2019).
3. 28 2014 . 1-237/ 2013. URL: <https://sudact.ru> (: 27.02.2019).
4. // -
5. . 2013. 4. . 96. 110. //
6. . 2015. 1 (68). . 67. 70. 6
7. 2018 . 10-3217/2018 1-33/2018. URL: <https://sudact.ru> (- : 27.02.2019).
8. 21 2017 . 1-284/2017 (-) . URL: <https://sudact.ru> (- : 27.02.2019).
9. // -
10. 2014. 4 (65). . 44. 47. //
11. . 2016. 3. . 22. 28. // -
12. . 2016. 4. . 34. 39. // -
13. // -
14. . 2008. 1. . 96. 101. // -
15. // -
16. . 2017. 2 (81). . 23. 35. // -
17. . 2015. 2 (32). . 54. 60. // -

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References

1. *The official website of the Ministry of Internal Affairs of Russia*. Available from: <https://mvd.ru> [Accessed 10 April 2019].
2. A sentence of March 11, 2012. *Kachugsky District Court* (Irkutsk Region). Available from: <https://sudact.ru> [Accessed 27 February 2019].
3. A sentence 1-237 / 2013 dated January 28, 2014. *Sterlitamak District Court*. Available from: <https://sudact.ru> [Accessed 27 February 2019].
4. Fadeev V. I. The role and importance of forensic examinations in exposing the mockings of crime events. *News of South-West State University. Series: History and Law*. 2013; 4: 96. 110.
5. Vardanyan A. V., Hovsepyan G. M. Judicial expertise in criminal cases of crimes related to the violation of fire safety requirements: tactical and forensic potential, problems of appointment and production. *Philosophy of Law*. 2015; 68 (1): 67. 70.
6. Appeal Resolution 10-3217 / 2018 of July 6, 2018 in case 1-33 / 2018 *Chelyabinsk Regional Court*. Available from: <https://sudact.ru> [Accessed 27 February 2019].
7. A sentence 1-284 / 2017 of December 21, 2017 on case No. 1-284 / 2017 of the Novotroitsk city court (Orenburg region). Available from: <https://sudact.ru> [Accessed 27 February 2019].
8. Vardanyan A. V., Mirzoyan S. S. General provisions of the judicial construction and technical expertise in criminal proceedings. *Philosophy of Law*. 2014; 65 (4): 44. 47.
9. Bagmet A. M., Bychkov V. V. Some aspects of the appointment of examinations to victims of sexual violence. *Investigation of crimes: problems and their solutions*. 2016; 3: 22. 28.
10. Bagmet A. M. Features of the appointment of special studies in relation to a suspect in sexual violence. *Bulletin of the Academy of the Investigative Committee of the Russian Federation*. 2016; 4: 34. 39.
11. Makarova S. Yu. Investigator and expert as subjects of disclosing and investigating criminal dramatizations. *Bulletin of the Samara Humanitarian Academy. Series: Right*. 2008; 1: 96. 101.
12. Vardanyan A. V., Gribunov O. P. Modern doctrine of methodological and criminalistic support for the investigation of certain types of crimes. *Bulletin of the East-Siberian Institute of the Ministry of Internal Affairs of Russia*. 2017; 81 (2): 23. 35.
13. Kashapov R. M. Knowingly false denunciation and slander of the knowingly innocent: concept, responsibility, consequences. *Legal science and law enforcement practice*. 2015; 32 (2): 54. 60.

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* * *



M. V. Bobovkin,

Professor of the Chair of Criminal Law,
Criminal Procedure and criminalistics of the Russian University
of Transport (MIIT), Professor of the Chair of Jurisprudence,
Intellectual Property and Forensic Examination,
Moscow State Technical University n. a. N. E. Bauman,
Professor of the Chair of Document Examination of the Training and Scientific
Complex of Forensic Examination of the Moscow University
of the Ministry of Interior of Russia n. a. V. Y . Kikot,
Doctor of Science (Law), Professor;

V. A. Ruchkin,

Head of the Chair Forensic examination and physical materials
science Volgograd State University,
Professor of the Chair of Expert Criminalistic Activity Fundamentals
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia,
Honored Scientist of Russia, Doctor of Science (Law), Professor

**ON THE FUNDAMENTAL BASIS
AND INTERDISCIPLINARY TIES OF JUDICIAL DRAWING**

The article deals with topical issues of the development of judicial handwriting and forensic handwriting expertise.

The authors define a modern view on the subject and tasks of judicial handwriting on the basis of solving the problems of judicial handwriting expertise on the basis of writing and handwriting. In this regard, the laws of a theoretical, methodical, organizational and tactical nature, which are related to the achievements of science and technology, which form the fundamental basis of judicial handwriting, are considered.

In the context of the above, the connections of judicial handwriting with three scientific blocks are considered: natural science and psychology; mathematics, probability theory and other exact sciences; disciplines of legal profile, including jurisprudence. An opinion is expressed on their significance in the development of judicial handwriting and forensic handwriting expertise.

Separately presented are interdisciplinary links of forensic handwriting with forensic science and the theory of forensic examination, the sciences of substantive and procedural law, operational search activity, criminology, forensic psychology, forensic medicine, forensic psychiatry.



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3. : - , 2019. 260 .
4. - 2- /
- : . 2006. 516 .
5. - 2- / ,
- : 2018. 226 .
- © 2019



References

1. Bobovkin M. V., Ruchkin V. A. The main trends in the development of forensic handwriting expertise in the Russian Federation. *Forensic examination*. 2018; 53 (1): 33. 41.
2. Bobovkin M. V., Ruchkin V. A. On the development of forensic handwriting diagnostics. *Forensic expert*. 2018; 3: 25. 28.
3. Bobovkin M. V., Ruchkin V. A. *The main types of traditional forensic examinations: tutorial*. Volgograd: Volgograd State University Publishing House; 2019: 260 p.
4. *Judicial handwriting examination. A common part. Theoretical and methodological foundations of forensic handwriting examination*. 2nd edition revised and augmented / ed. V. F. Orlova. Moscow: Science; 2006: 516 p.
5. *Forensic handwriting and technical and forensic examination of documents*. 2nd edition revised and augmented / ed. M. V. Bobovkina, A. A. Protkina. Moscow: Yurayt; 2018: 226 p.

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I. V. Latyshov,

Professor of the Chair of Forensics and Investigations
of the Saint-Petersburg University of the Ministry of the Interior of Russia,
Doctor of Science (Law), Associate Professor;

Yu. A. Dontsova,

Senior Researcher of the Department of Scientific Research
on Criminalistic Types of Examinations of the Office of Scientific Research
of the Expert-Criminalistic Center of the Ministry of Interior of Russia

**MODERN PROBLEMS OF SCIENTIFIC AND METHODOLOGICAL
SUPPORT OF FINGERPRINT FORENSIC INVESTIGATION**

Based on the analysis of expert practice materials, testing results of the employees of forensic divisions of the Ministry of Internal Affairs of Russia, the problem of forensic investigation of fingerprints formed under the negative influence of object properties and environmental factors is considered.

It is noted that the cognitive model of forensic investigation of fingerprints established today in science and practice does not cover all cases of fingerprints formation, leaving beyond the experts' capabilities to identify and evaluate fingerprints formed on objects with an oily, moist surface, as well as objects with unstable structure. This should also include objects, the surface of which, after the formation of fingerprints on it, has been exposed to environmental factors.



Such complicated cases of the fingerprints formation, according to the authors, require consideration of a larger number of circumstances taken into account in the detection and forensic study of these fingerprints. They include objective findings on the nature and forensically important properties involved in the fingerprints formation of objects, characteristics of reflection of signs in fingerprints, acceptable technical forensic means and investigational methods.

All this should be considered as elements of an innovative cognitive model for identifying and investigating fingerprints, the implementation of which will increase the effectiveness of scientific and methodological support for forensic investigations of fingerprints, expand the possibilities of fingerprint examination in the solution and investigation of crimes.

Key words: fingerprints, fingerprint examination, technical forensic means and methods, negative properties of objects, the action of environmental factors, cognitive model, scientific and methodological support.

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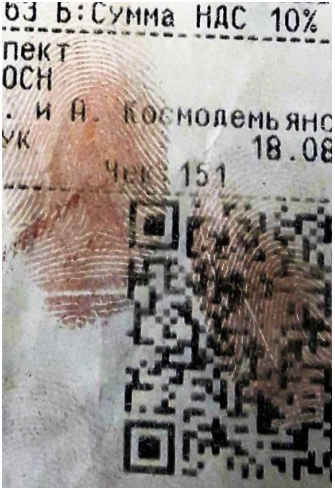
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6. // : , 1988. . 105. -
7. 9. // 1990. 29. . 59. 64. -
8. Almog J., Gabay A. A. Modified super glue technique . the use of polycyanacrylate for fingerprint development // Journal of Forensic Science. 1986. Vol. 31. 1. . 12. 17. -
9. // : XXI : , 2018. . 140. 141. -



10. //

2018. 1 (53). . 84. 93.

11. //

. 2017. 83. . 49 63.

12. // VII : . VII : . VII , 2019. . 107. 113.

13. Dhall J. K., Sodhi G. S., Kapoor A. K. A novel method for the development of latent fingerprints recovered from arson simulation // Egyptian Journal of Forensic Sciences. 2013. 3. . 99. 103.

14. Dominick A. J., Daeid N. Nic, Bleay S. M. The recoverability of fingerprints on nonporous surfaces exposed to elevated temperatures // Journal of Forensic Identification. 2011. 5 (61). . 520. 536.

15. // 2018. 3 (47). . 142. 147.

16. : / : 1988.

17. // : : : , 2005. . 63. 66.

© , 2019

References

1. Granovskiy G. L. *The main provisions of the Soviet forensic examination of friction ridges. Thesis research for a Candidate Degree in Law Sciences.* Kharkov; 1955.
2. Kornoukhov V. E., Yaroslav Yu. Yu., Yarovenko T. V. *Fingerprint examination: current status and development prospects.* Moscow: Norma; INFRA-M; 2011.
3. Mailis N. P., Yarmak K. V., Bushuev V. V. *Fingerprinting and fingerprint examination: a textbook.* Moscow: V. Ya. Kikot Moscow University of the Ministry of Interior of Russia; 2017.
4. *Typical examination research methods of material evidence investigation. Part I / Edited by Yu. M. Dildin, the Candidate of technical sciences / General Editorship by V. V. Martynov, the Candidate of technical sciences.* Moscow: INTERKRIM-PRESS; 2010.



5. *Modern methods and means of development, removing and examining of fingerprints: Study Guide* / L. A. Chernitsyn et al. Moscow: EKC MVD Rossii; 2010.
6. Moiseeva T. F. Fingerprints development with glues based on cyanoacryl ester. *Expert Technique*. Moscow: All-Union Scientific Research Institute of Judicial Investigation; 1988; Vol. 105: 7. 9.
7. Samishchenko S. S., Ivashkov V. A. The use of cyanoacryl acid esters in fingerprinting. *Expert practical training*. 1990; 29: 59. 64.
8. Almog J., Gabay A. A Modified super glue technique . the use of polycyanacrylate for fingerprint development. *Journal of Forensic Science*. 1986; Vol 31; 1: 12. 17.
9. Vasilev V. A., Evstropov D. A. Modern approaches in the study of fingerprints. *Topical issues of crime prevention: theory and practice items. Materials of the XXI International scientific-practical conference*. Krasnoyarsk: Siberian Sibir. yurid. in-t MVD Rossii; 2018: 140. 141.
10. Vasilev V. A., Evstropov D. A., Krainskiy A. V. The use of an integrated approach in the study of sweat and grease substance. *Forensic examination*. 2018; 53 (1): 84. 93.
11. Dontsova Yu. A. Chemical methods for fingerprints detecting on porous surfaces that do not have a damaging effect on handwritten and printed texts, seals and stamps prints, thermal paper sensitive layer. *Expert practical training*. 2017; 83: 49 63.
12. Dontsova Yu. A. Staining with suspensions of dry and water-glue art pigments as a method for detecting fingerprints on wet, oily and sticky surfaces. *Forensic means and methods in disclosure and investigation of crime. Collection of the VII All-Russian Scientific and Practical Conference*. Moscow: EKC MVD Rossii; 2019: 107. 113.
13. Dhall J. K., Sodhi G. S., Kapoor A. K. A novel method for the development of latent fingerprints recovered from arson simulation. *Egyptian Journal of Forensic Sciences*. 2013; 3: 99. 103.
14. Dominick A. J., Daeid N. Nic, Bleay S.M. The recoverability of fingerprints on nonporous surfaces exposed to elevated temperatures. *Journal of Forensic Identification*. 2011; 61 (5): 520. 536.
15. Latyshov I. V., Vasilev V. A., Kondakov A. V. Evaluation of fingerprints powders efficiency for fingerprint development. *Publications of the Academy of the Administration of the Ministry of Interior of Russia*. 2018; 47 (3): 142. 147.
16. Yaroslav Yu. Yu., Segay M. Ya. *The development of latent traces of friction ridges: guidance manual* / Editor in chief, N. P. Mailis the Candidate of legal sciences. Moscow: VNIISE; 1988.
17. Yaroslav Yu. Yu. The current state of fingerprinting. *Use of fingerprint information in solving and investigation of crimes: issues and ways to improve. International scientific-practical conference information package*. Kiev; 2005: 63. 66.

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* * *



INSIDE THE PALM HANDHELD SYMMETRY OF PALM GLYPHICS CHARACTERISTICS AS THE CRITERION PARTS OF THE PALMS TO ONE PERSON

The article deals with the essence of portable (or shift) symmetry of different parts of the palms as a biological basis for solving the diagnostic problem of belonging parts of the palm to one or different persons. The degree of regularity and random symmetry paleographically portable signs three major areas of the palm: thenar, hypothenar and area under the fingers. Symmetry studied in pairs comparing "us" and "them", obtained on the basis of study paleographically cards 675 people. All examined relatively healthy individuals, of both sex, Caucasian and Mongoloid race, aged 16 to 77 years. Data on frequency of occurrence of combinations of dermatoglyphic signs, reliability of their differences in pairs of comparison "us" and "them" according to t-criterion, and also values of the diagnostic coefficients showing how many times this or that combination of signs is more often observed provided that the investigated sites of palms belong to one person are presented.

Key words: hypothenar, fingerprinting, dermatoglyphics, palm, palmoglyphics, papillary pattern, the traces of the hands, thenar, whole, part.

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()	(pl.pr;	-
	(1)	-
a. b c. d (Th,	H	-
	II IV);	-
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3);	. 2,	. 2,	. 0,
. 1,	. 2,	(. 3);	-
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(. 0,	. 1,	. 2,	. 3);
()		-
(. 0,	. 1,	. 2,	. 3);
(. 0,	. 1,	. 2,
. 3,	. 4).		-
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Statistica-10.0.
1. Th
1.1. H.
0,06 . (.....),
:
0,51 (.....).
1.2. () -
0,66 .
Th 14 20, H. 15
26. (.....)
H) « »,
(.....) « » (..... 1).
« »: «17. 19» «18. 20»,
« »: «16. 20» «16. 21». 7 (DK=7,0).
1.3. () -
Th H 0,62 .
Th H 0 3,
H (.....)
H) « »
(..... 1). « »: «0. 1» «1. 2»,
« »: «1. 0», «1. 1», «0. 2» «0. 3». 6 (DK=. 6,0).
(t=0,7), «1. 1» « »
» (t=. 3,4; DK=. 2,5). «. 2»:
(t=0,0), «0. 2»,
« » (t=. 4,7; DK=. 2,7).
,
,
,
,



Th H

	Th-H	, P		, m		t	DK
		« »	« »	« »	« »		
	. 5 . 10	10,8	27,0	1,8	2,6	. 5,2	. 2,5
	. 3	18,9	2,7	2,3	0,9	6,6	7,0
	. 1	32,4	16,2	2,7	2,1	4,7	2,0
	2	2,7	10,8	0,9	1,8	. 4,0	. 4,0
	, %	64,8	56,7				
	. 3	2,7	8,1	0,9	1,6	. 2,9	. 3,0
	. 1	32,4	16,2	2,7	2,1	4,7	2,0
	1	2,7	16,2	0,9	2,1	. 5,8	. 6,0
	, %	37,8	40,5				
	. 2	2,7	10,8	0,9	1,8	. 4,0	. 4,0
	. 1	8,1	16,2	1,6	2,1	. 3,1	. 2,0
	. 0,5	21,6	13,5	2,4	2,0	2,6	1,6
	0	37,8	24,3	2,8	2,5	3,6	1,6
	1	2,7	16,2	0,9	2,1	. 5,8	. 6,0
	, %	72,9	81,0				
	. 0,5 . 3	2,7	21,6	0,9	2,4	. 7,4	. 8,0
	0	27,0	18,9	2,6	2,3	2,4	(1,4)
	0,5	8,1	2,7	1,6	0,9	2,9	3,0
	1	59,5	29,8	2,8	2,8	6,9	2,0
	1,5 3	2,7	27,0	0,9	2,6	. 8,9	. 10,0
	, %	100,0	100,0				

:
 (p<0,05); DK .
 « », « » (p<0,05);
 DK (p<0,05), (-
 1,5), ;
 2 -
 , 1 2 , 2 3 .
 1.4. ()
 Th H 0,06 (), -
 (); 0,22 (), ;
 0,63 (), ,
 Th H 0 3,
 H (0,5 H)
 « » (. 1). H
 1.2 « ».
 Th « » ()
 1). « »: «1. 1», «2. 2,5»



«3.3», «»: «0.1», «0.2», «1.3» «2.1». -
 6 (DK=. 6,0).
 1.5. Th H 0,82 () -
). Th H 0 4, -
 Th) -
 (0,5.1 Th) -
 «» (. 1). Th
 1,5.3 «» «» .
 «» (0,5).
 «0.2», «1.3» «2.1». «»: «1.1» «4.3», «»: «0.1»,
 10 (DK= . 10,0).
 2. -
 H. (IV -
 2.1.) H 0,05 . -
 ()). -
 2.2. () -
 c. d t. d -
 . 0,45 . -
 c. d 11 24, H. 15 26. -
 (2 5), , -
 (. 2).
 2 (DK=. 2,0). 2

IV

H

cĖd Ė tĖd	, P		, m		t	DK
	« »	« »	« »	« »		
0 . 4	20,0	28,0	2,3	2,6	. 2,3	(. 1,4)
2 5	73,0	58,3	2,6	2,8	3,8	(1,3)
6 9	7,0	13,7	1,5	2,0	. 2,7	. 2,0
, %	100,0	100,0				
. 2 . 3	2,7	18,9	0,9	2,3	. 6,6	. 7,0
0	51,4	16,3	2,9	2,1	9,8	3,2
1 2	21,6	45,9	2,4	2,9	. 6,5	. 2,1
, %	75,7	81,1				
. 1 . 3	8,1	16,2	1,6	2,1	. 3,1	. 2,0
. 0,5 0	73,0	56,8	2,6	2,9	4,2	(1,3)
1 2	5,4	16,2	1,3	2,1	. 4,3	. 3,0
, %	86,5	89,2				
. 2 . 4	5,4	13,5	1,3	2,0	. 3,4	. 2,5
0	64,9	40,6	2,7	2,9	6,2	1,6
1 2	2,7	21,6	0,9	2,4	. 7,4	. 8,0
, %	73,0	75,7				



2.3. (IV) H 0,75 .
 IV H -
 0 3, H
 « » (. 2).
 « »: «0. 0», «1. 1» «2. 3»,
 « »: «2. 1» «1. 3». 7 (DK=. 7,0).

2.4. () H 0,43 (-
 IV), ();
 0,42 (), ; 0,46 (-
), Th
 H
 IV H 0 3, H
 « » (. 2), (1, 2
 3) . « ».
 « »: «1. 1» «2. 2», « »: «0. 2», «0. 3», «1. 3» «2. 1».
 (DK=. 3,0).

2.5. () H 0,77 (-
 IV H 0 4, -
 H). IV H) -
 (. 1 H) -
 « » (. 2). IV 2. 4
 « ».
 « »: «0. 0», «1. 1», «2. 2» «2. 3», « »: «1. 2», «1. 3»
 «2. 1». 9 («1. 1»).

2.6. () pl.d -
 d pl.d -
 () (pl.d pl.pr). -
 0,40 . d , -
 pl.d (. 3). 8 (DK=. 8,0
 «14. 12»).

3

dĖpl.d pl.dĖpl.pr

dĖpl.d Ėpl.dĖpl.pr	, P		, m		t	DK
	« »	« »	« »	« »		
2 . 3	10,0	19,7	1,7	2,3	. 3,4	. 2,0
3 5	52,0	34,6	2,9	2,7	4,3	1,5
, %	62,0	54,3				



3. () -
) () -
 IV) II

3.1. 0,02 . () -
).

3.2. () -
 a. b c. d -
 0,39 . -
 a. b 12 27, c. d . 11 24. -
 ,
 c. d (. 4). 4 (DK=. 4,3). -
 4

II IV

	a Æ b Æ c Æ d	, P		, m		t	DK
		« »	« »	« »	« »		
	. 4 . 12	2,3	10,0	0,9	1,7	. 4,0	. 4,3
	1 . 3	79,7	60,3	2,3	2,8	5,4	(1,3)
	2 15	18,0	29,7	2,2	2,6	. 3,4	. 1,7
	, %	100,0	100,0				
	. 1	29,7	2,7	2,6	0,9	9,7	11,0
	0	64,9	21,6	2,8	2,4	11,9	3,0
	1 3	5,4	75,7	1,3	2,5	. 25,1	. 14,0
	, %	100,0	100,0				
	. 1 . 2,5	10,8	24,4	1,8	2,5	. 4,4	. 2,3
	. 0,5	8,1	2,7	1,6	0,9	2,9	3,0
	0 0,5	75,7	54,0	2,5	2,9	5,7	(1,4)
	1 2	5,4	18,9	1,3	2,3	. 5,2	. 3,5
, %	100,0	100,0					
	. 1 . 4	13,5	29,7	2	2,6	. 4,9	. 2,2
	0	70,3	40,6	2,6	2,8	7,7	1,7
	1 4	16,2	29,7	2,1	2,6	. 4,0	. 1,8
	, %	100,0	100,0				

3.3. () -
 0,73 .
 II IV 0 3, IV
 .
 1) (. 4). -
 « »: «0. 0», «1. 1» «2. 2»,



« : «0. 2», «0. 3», «1. 0», «1. 2» «2. 0».
 14 (DK=. 14,0).
 3.4. () -
 0,46 (), -
 (); 0,54 (), -
 ; 0,54 (), .
 , , 0 3, -
 II IV
 II « » (. 4), (1, 2 3 -
). « ». « »: -
 «1. 1» «2. 2». « : «0. 2», «0. 3», «1. 3», «2. 1,5», «3. 2». -
 3. 4 (DK=. 3,5).
 3.5. () -
 0,78 (). II IV -
 0 4, II
 « » (. 4). IV 1. 4 -
 « ». -
 « »: «1. 1» «2. 2», « : «2. 1» . -
 2. 3 (DK=. 2,5 «2. 1»).
 3.6. -
 a. b c. d 0,20 . a. b -
 14 35 , c. d. 11 29 . , -
 a. b . 0 3 -
 « » « » 40,0 % 31,3 % (t=2,2; p<0,05). -
 (DK=1,3) .
 , , .
 Th H : > > > . -
 IV H -
 : > > >d. pl.d/pr> . -
 II IV : > > > . -
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 Th H -
 IV H. , -
 II IV , -
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Table with columns labeled Th, H, and II. The table contains numerical values and some text elements.

	Th	H	II
	0,34;	0,22;	0,25.
IV	. 0,09,	. 0,17.	. 0,10.
. 0,28,	. 0,02,	. 0,37;	. 0,27;
. 0,38,	. 0,13,	. 0,02,	. 0,25.
. 0,28,	. 0,05,	. 0,39;	
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1. Bozhchenko A. P., Kapustin E. V. Bilateral symmetry of palmoglyphic characteristics as a criterion of the affiliation palms for one person. *Forensic examination*. 2019. 1. 76. 90.
2. Granovsky G. L. *Fundamentals of trace analysis*. Moscow: All Union research Institute IM USSR; 1974. 240 p.
3. Zarenkov N. *Bisymmetric*. Moscow: Book house "LIBROKOM"; 2009. 320 p.
4. Guseva I. S. *Morphogenesis and genetics of human scallop skin*. Minsk: Belarus; 1986. 160 p.
5. Bozhchenko A. P., Popov V. L., Zaslavsky G. I. *Dermatoglyphics at identification of the person: textbook*. St. Petersburg; 2008.
6. Cummins H., Midlo Ch. *Finger Prints, Palms and Soles. An Introduction to Dermatoglyphics*. Philadelphia, 1943. 300 p.
7. Bozhchenko A. P., Nazarov Yu. V., Gugin I. V. et al. Absolute and relative dimensional characteristics of palmoglyphic an adult, depending on sex and age. *Forensic examination*. 2015. 4. 51. 67.
8. Teplov K. V., Bozhchenko A. P., Tolmachev I. A. et al. Age features of Palmar dermatoglyphics of an adult. *Forensic medical examination*. 2016. 2. 19. 23.

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References

1. Bozhchenko A. P., Kapustin E. V. Bilateral symmetry of palmoglyphic characteristics as a criterion of the affiliation palms for one person. *Forensic examination*. 2019; 1: 76. 90.
2. Granovsky G. L. *Fundamentals of trace analysis*. Moscow: All Union research Institute IM USSR; 1974: 240 p.
3. Zarenkov N. *Bisymmetric*. Moscow: Book house "LIBROKOM"; 2009: 320 p.
4. Guseva I. S. *Morphogenesis and genetics of human scallop skin*. Minsk: Belarus; 1986: 160 p.
5. Bozhchenko A. P., Popov V. L., Zaslavsky G. I. *Dermatoglyphics at identification of the person: textbook*. St. Petersburg; 2008.
6. Cummins H., Midlo Ch. *Finger Prints, Palms and Soles. An Introduction to Dermatoglyphics*. Philadelphia; 1943: 300 p.
7. Bozhchenko, A. P., Nazarov Yu. V., Gugin I. V. et al. Absolute and relative dimensional characteristics of palmoglyphic an adult, depending on sex and age. *Forensic examination*. 2015; 4: 51. 67.
8. Teplov K. V., Bozhchenko A. P., Tolmachev I. A. et al. Age features of Palmar dermatoglyphics of an adult. *Forensic medical examination*. 2016; 2: 19. 23.

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N. . Anchabadze,

Professor of the Chair of Document Examination
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia,
Candidate of Science (Law), Associate Professor, Doctor of Law, Professor RAE;

I. A. Karimova,

Adjunct of the Volgograd Academy of the Ministry of Interior of Russia

**PROBLEMS OF PRACTICAL USE OF FUZZY DIGITAL IMAGES
OF PERSONS OBTAINED FROM SURVEILLANCE CAMERAS
IN THE DETECTION AND INVESTIGATION OF CRIMES**

The development of digital technology has led to the widespread use of photo and video equipment for recording and searching for evidence in the Commission of crimes. Video recordings taken from crime scenes are important sources of information for establishing the circumstances of the crime and the persons involved. As the analysis of the practice of production of portrait examinations due to the fuzziness of images (low quality), the objects entering the study remain unused in full practical activity, during the operational-investigative and investigative actions.

The review of portrait training examinations, graduates of the Ministry of Internal Affairs for 2016-2018 years showed that if the video image was initially fuzzy, they are recognized as unsuitable for identification of the person on the grounds of appearance. Thus, most half of these recording materials remain unused in the detection and investigation of crimes. To use such records, technological processing of fuzzy images is necessary in order to accurately recognize the appearance of a person in an image. The article proposes methods for improving video quality, and the possibility of creating files for the fuzzy images taken from places unsolved crimes in the total structure of habitoscopic counts.

Key words: portrait examination, fuzzy video images, image modeling, low image resolution, color rendering, digital noise level, anthropometric algorithms, hand-drawn images, introduction of card files, image acquisition process, digital editor, pixel, image processing, image transformation, image defects, color correction filters.

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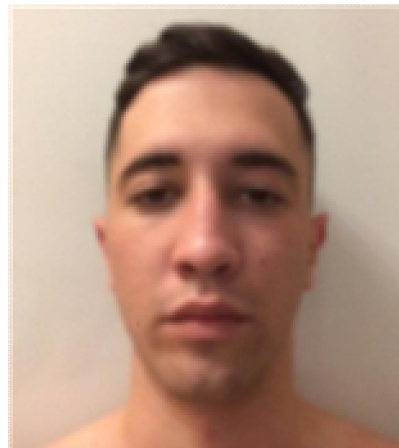
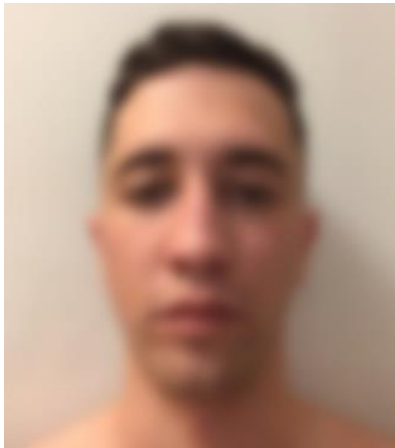


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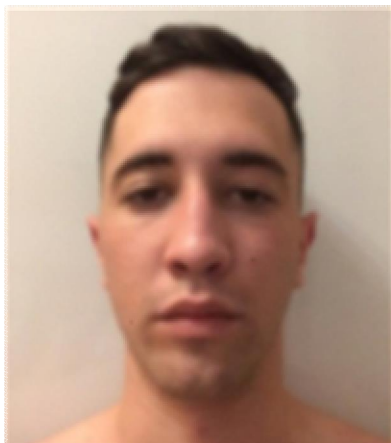
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Adobe Photoshop

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 2. . 2015. 1. . 270. 275. // -
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 - 7 (85). . 25. 27. // : . -
 7. : , 2001. 61 . : : : -
- © , 2019



References

1. Cherkashina I. I. Preparation of materials for the appointment of forensic portrait examination of videos. Bulletin of the Academy of the Investigative Committee of Russia. 2015; 1: 270. 275.
2. Davydov E. V., Finogenov V. F., Shaova T. G. The Influence of factors on the display of the appearance of a person captured on photographs and video images: textbook. Volgograd: VA MVD Rossii; 2015: 96 p.
3. Zinin A. M. Actual problems of court portraiture expertise. Bulletin of economic security. 2018; 1: 65.
4. Zinin A. M., Zotov A. B., Snetkov V. A. Features of portrait forensic identification using video images. Moscow: Criminal Expertise Centre of the Ministry of internal Affairs of Russia; 1995: 25 p.
5. Anchabadze N. A., Miminoshvili G. A. Features of appointment of portrait examination of the video images received from ATMs and security systems at investigation of crimes. Forensic examination of 21st century tradition, innovation, and practice: Interdepartmental conference dedicated to the 40th anniversary of the Department of tratology and ballistics. Volgograd: VA Ministry of internal Affairs of Russia; 2014: 181.
6. Shevchenko D. A. Approach to the preprocessing of graphic objects for the problem of identification in the video stream. Science and business: ways of development. 2018; 85 (7): 25.
7. Burne Hogarth. Dynamic anatomy for artists. Tula: Spring, Moscow: Astrel. Publishing AST; 2001: 61 p.

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P. N. Zablotsky,

Associate Professor of the Chair of Expert-Criminalistic Activity Fundamentals
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of interior of Russia,
Candidate of Science (Law), Associate Professor

DESIGN FEATURES DISGUISED FIREARMS AS AN OBJECT OF FORENSIC INVESTIGATION

The article analyzes the design features of disguised firearms, emphasizes the urgency of the problem of forensic research of such firing devices. The author investigated the history of the appearance of disguised firearms, which camouflaged under household items, which were customary for the relevant historical period. Manufacturers usually, the shooting device was given the appearance of not having anything to do with the known samples of firearms, which is typical for the present time.

The article provides examples from expert practice, indicating an increase in the number of studies of disguised firearms. It is indicated that the conduct of expert studies of such objects of forensic ballistic examination based on the Typical Method is fraught with separate difficulties. It is noted the need for a detailed study of the design of such a weapon, the correct assessment of its damaging properties, as well as the mandatory registration of the appropriate forensic accounting in order to establish the source of origin.

Key words: forensic ballistic examination, firearms, improvised firearms, atypical firearms, masked firearms, shooting device, illegal circulation of firearms, shooting pen, shooting cell phone.

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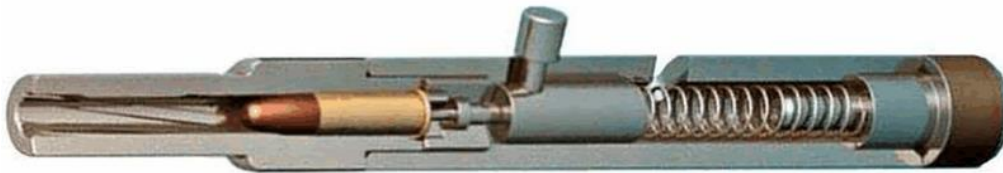
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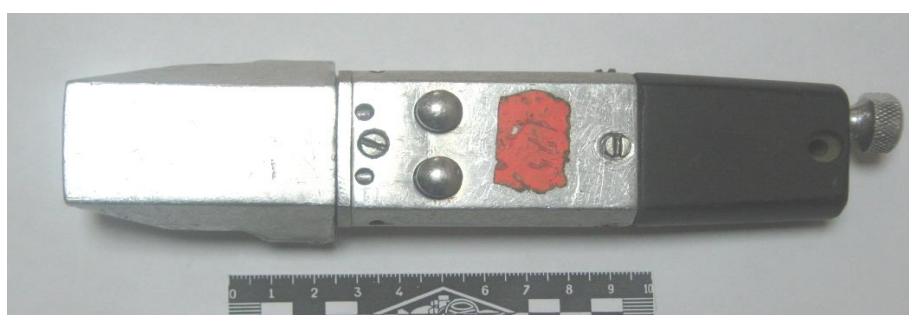
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- © . . , 2019

References

1. Schetinina E. V. Problems of developing a culture of violence in the Internet space. *Innovative development of vocational education*. 2018; 18 (2): 127. 130.
2. Komarinets B. M. *Forensic ballistic examination: Teaching manual*. Moscow: Izd-vo VNIISE; 1974; Issue 1: 166 .
3. Pleskachevsky V. M. *Weapons in forensic science: the concept and classification*. Moscow: Spark; 2001: 343 p.
4. Ruchkin V. A. *Forensic examination of weapons and traces of its use: questions of theory, practice and didactics: monograph*. Moscow: Mosk. psikhol.-soc. Institut; 2004: 343 .
5. Ruchkin V. A., Chulkov I. A. *Judicial ballistic examination: a course of lectures*. Volgograd: VA Ministry of Internal Affairs of Russia; 2018: 208. 210.
6. Sharapov R. D. The concept of weapons as an instrument of crime. *Journal of Russian law*. 2005; 106 (10). Available from: <https://cyberleninka.ru/article/n/ponyatie-oruziya-kak-orudiya-prestupleniya> [Accessed 18th June 2019].
7. Ardashev A. N., Fedoseev S. P. *Special, unusual, exotic weapons*. Moscow: AST: Astrel'; 2003: 67 .
8. *The method of establishing the ownership of the object to a firearm*. Moscow: GU EKC MVD Rossii; 2000: 12 p.
9. Order of the Ministry of Internal Affairs of the Russian Federation No. 70 of 10 February 2006. *On the organization of the use of forensic accounting of the internal affairs bodies of the Russian Federation*. Available from: reference and legal system ConsultantPlus.

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I. A. Chulkov,

Senior Lecturer of the Chair of Traceology and Ballistics
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia;

A. N. Bardachenko,

Deputy Head of the Chair of the Chair of Traceology and Ballistics
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia

**THE IMPACT OF THE SIZE OF MUZZLE CHOKES
ON THE 3 SHOT DISPERSION WHEN SHOOTING
SMOOTHBORE RIFLES USING CARTRIDGES WITH GAS-CHECK PADS**

The investigation of crimes committed with the use of smoothbore hunting rifles is closely connected with the necessity to determine the distance of a shot by shot pattern.

The analysis of special literature shows that in spite of quite a wide range of accumulated empirical materials in this sphere a lot of the given data about shot pattern characteristics are often controversial and have become obsolete in large part. This is because of the use of gas-check pads in modern cartridges which are made of polymeric materials, that helped better obturate impinging gases and in such a way provide an increase of the utilization rate of powder charge energy.

To determine the impact of the size of muzzle chokes on the shot dispersion when shooting with such cartridges, experimental examination was conducted. The obtained data were arranged into corresponding tables and diagrams. As a result of the analysis of the damage on barriers, common factors of the impact of the size of muzzle chokes on the shot dispersion were established.

The obtained data will be useful for forensic experts while conducting forensic ballistic examinations to establish the circumstances of using smoothbore hunting rifles as well as for cadets and trainees when studying Forensic Ballistics and Forensic Ballistic Examination.

Key words: smoothbore hunting rifle, shot pattern, weapon traces on barriers, distance of a shot.

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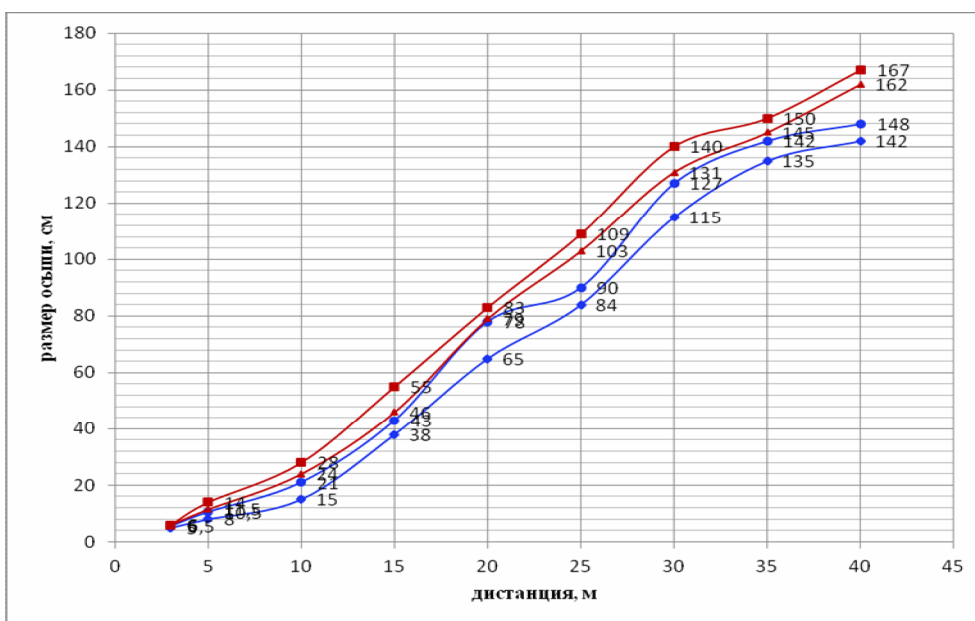


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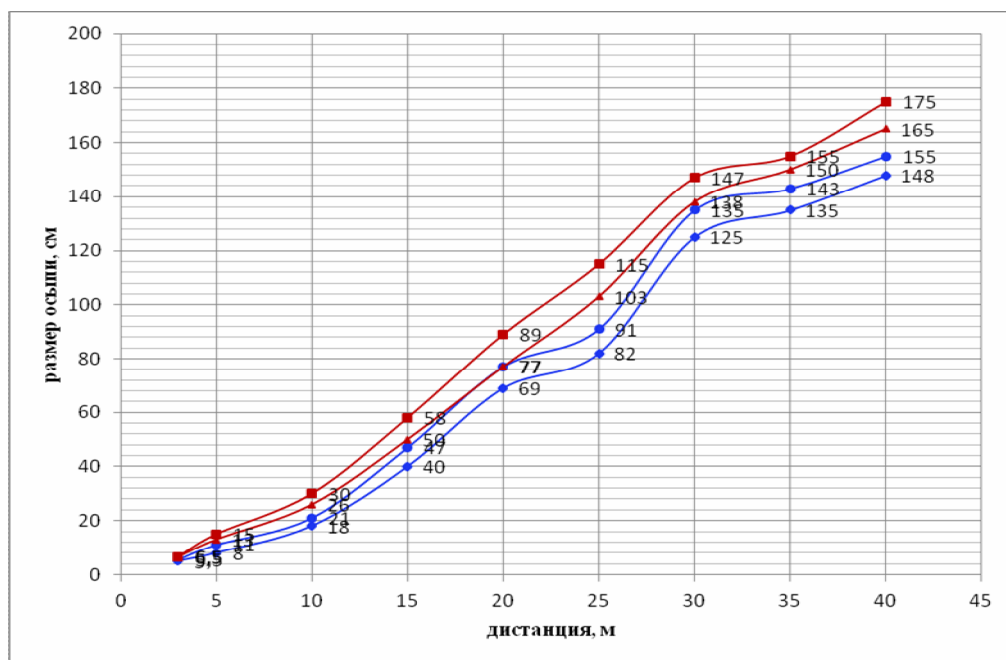
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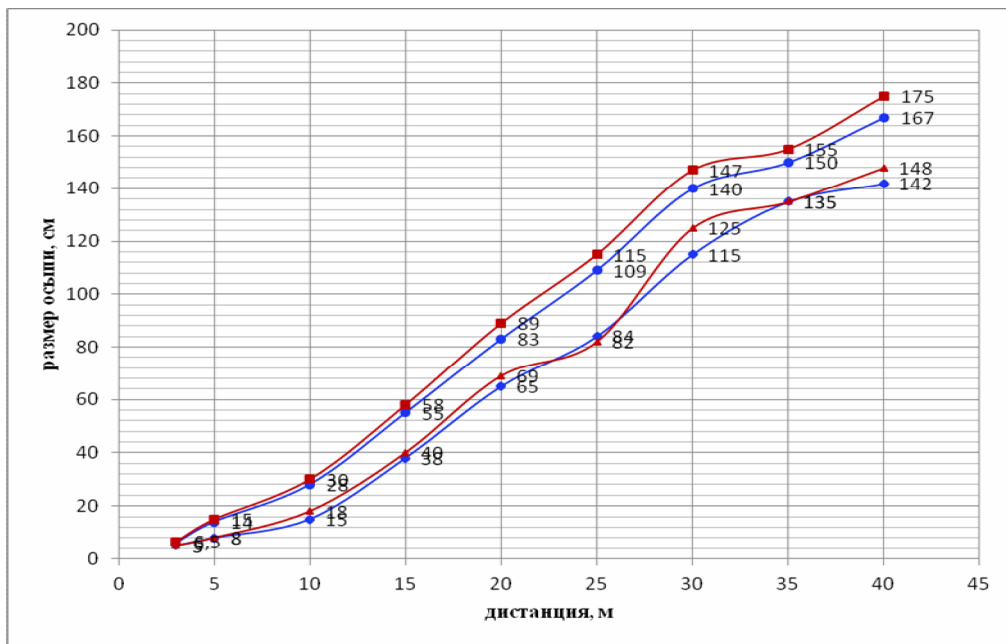


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1. Кустанович С. Д. Осмотр повреждений одежды в судебно-медицинской практике. Москва, 1965.

2. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. 1967. № 22.

3. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. 1974.

4. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. 1956.

5. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. 1959.

6. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. // Судебно-медицинская экспертиза. 1976. № 13. С. 3. 10.

7. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. 3 5 50 // Судебно-медицинская экспертиза. 2015. № 10. С. 266. 272.

8. Артамонов М. С. Определяем дистанцию выстрела из гладкоствольных охотничьих ружей и нарезных дробовиков по разбросу пуль. Судебно-медицинская экспертиза. 1976.

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References

1. Kustanovich S. D. The examination of clothing damage in forensic medical practice. Moscow; 1965.
2. Artamonov M. S. Determining the distance of a shot from smoothbore hunting rifles and sawed-off shotguns by shot dispersion. Expert Techniques. Moscow; 1967: 22.



3. Ermolenko B. N. Determining the distance of a shot from shotguns and the kinetic energy of a shell. Kiev; 1974.

4. Kubitskii I. M. Forensic ballistics. Moscow; 1956.

5. Avdeev M. I. The course of forensic medicine. Moscow; 1959: 223.

6. Mankevich S. A., Moldaver T. A. Determining the distance of a shot by shot pattern. Expert practice and new methods of examination. Express information. Moscow; 1976; 13: 3. 10.

7. Pogrebnoi A. A. Characteristics of damage by No. 3 shot when shooting with modern 12-caliber hunting cartridges at the distance from 5 to 50 m. Vestnik of Moscow University of the Ministry of Internal Affairs of Russia. 2015; 10: 266. 272.

8. Ermolenko B. N. Theoretical and methodological problems of forensic ballistics. Kiev; 1976: 88. 104.

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D.Yu. Dontsov,

Senior Lecturer of the Chair of Traceology and Ballistics
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia,
Candidate of Science (Engineering)

**METHODOLOGICAL ASPECTS OF EXAMINING TRACES
OF A SHORT-DISTANCE SHOT ALONG THE SURFACE
OF COMPLEX-SHAPE BARRIERS**

The author conducts a comparative examination of traces of a short-distance shot from the Makarov pistol, Kalashnikov AK-74 and AKS-74U assault rifles along the surface of targets with a shape similar to a human forearm. There is a description of targets preparation, peculiarities of their installation and experimental shooting. The author compares the topography of additional traces of a shot when a firearm long axis ranges along and across a bigger side of targets.

The results of the examination show that while shooting firearms with different power levels along the surface of the barrier with a configuration similar to a human forearm, the most differences in additional traces appear when the direction of a shot is changed (along or across a target long axis). Along with this, the height of a firearm muzzle end position over the barrier and the distance to it also exert influence on the trace vision. It is determined that using targets most similar to the shape of a real object during experimental shooting at the moment of a criminal shot provides conditions for a more objective display of additional traces of a shot and facilitates an increase in the effectiveness of expert examinations aimed at establishing the circumstances of a shot.

Key words: shooting along the barrier, Makarov pistol, Kalashnikov assault rifle, complex-shape targets, topography of additional traces of a shot, determining the distance and direction of a shot.



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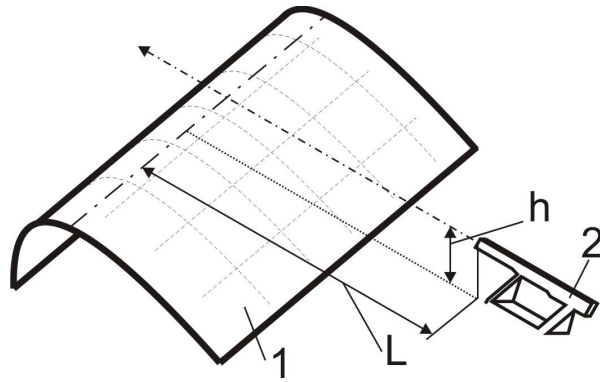
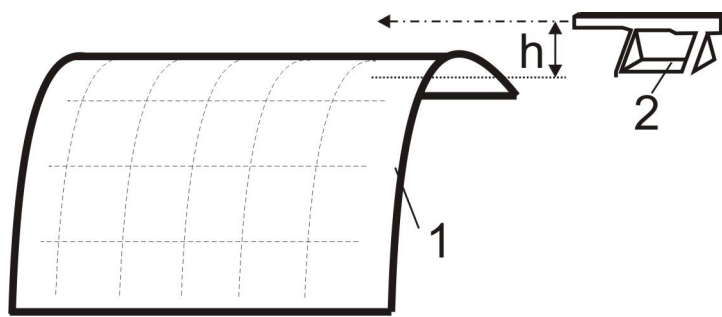
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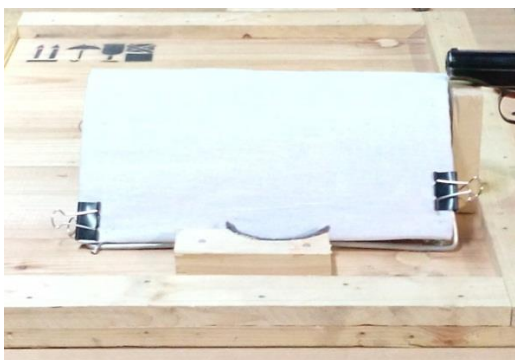


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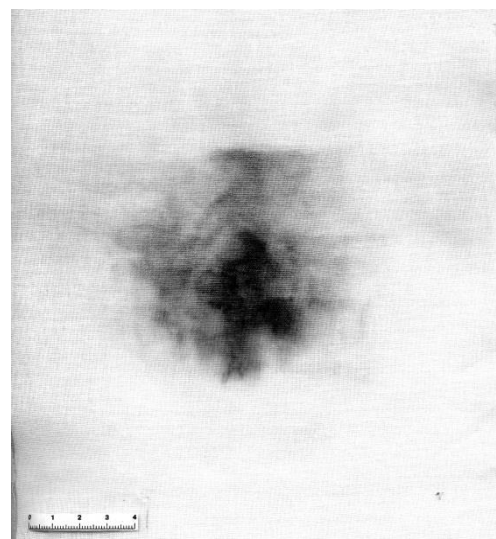
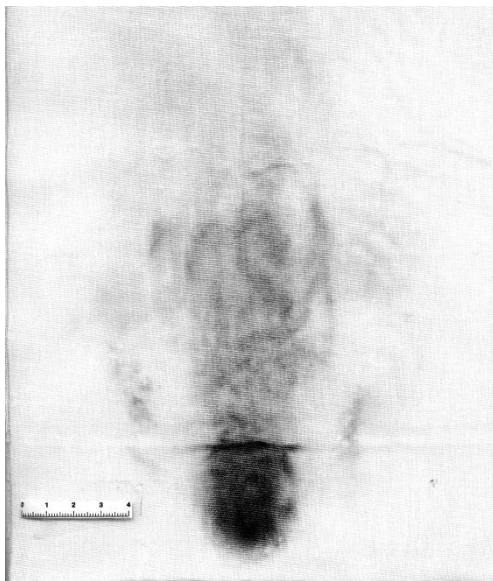
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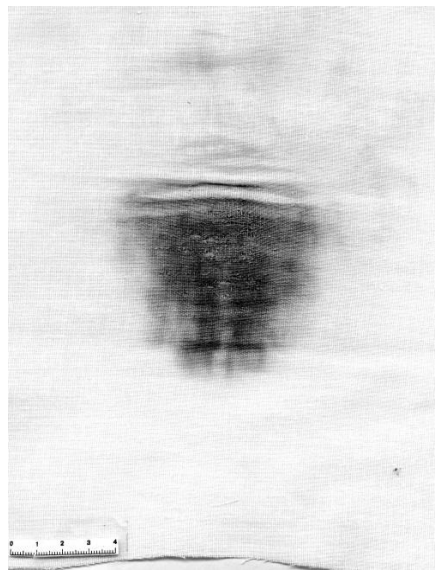
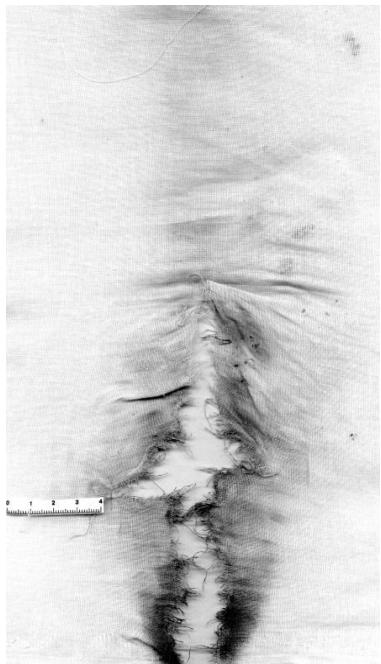
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	© . ., 2019	

References

1. Latyшов I. V., Dontsov D. I., Kuznetsov V. A. Possibilities of a device for experimental shooting in providing expert examinations to establish the circumstances of a shot. *Forensic Examination*. 2016; 45 (1): 65. 73.

2. Latyшов I. V., Vasilev V. A. Peculiarities of traces of a short-distance shot formed while shooting small arms along the surface of the barrier. *Forensic Examination*. 2017; 50 (2): 68. 76.



3. *Device for experimental shooting*. RF utility model pattern No. 146737. MPK F41J 1/00. Issued on October 20, 2014.

4. *Device for experimental shooting*. RF utility model pattern No. 173312. MPK F41J 1/00. Issued on August 21, 2017.

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L. S. Gvozdikova,
Senior Expert of the Saratov Region Expert-Criminalistic Center
of the Ministry of Interior of Russia

**FORENSIC INVESTIGATION OF MICRORELIEF
OF HUNTER'S CARTRIDGES CASES SUBJECTED TO RELOADING**

The expert examination of traces on the reloaded cases deals with studying the traditional set of morphological characteristics . characteristics of the external structure of the trace-forming parts.

Morphological properties of all reloading equipment used concerns the construction and peculiarities of its working parts structure, the traces of those parts being steadily imprinted on the reloaded cases.

During the process of reloading there takes place the contact interaction between the trace-receiving surface of the case and trace-forming ones of the shell-holder, die cavity, bushing.

The tasks of the examination are:

- . determining regularities of trace imprinting on the microrelief of cases, the traces being formed by the reloading mechanisms;
- . fixation and localization of these traces;
- . analyzing the degree of their unchangeability and stability of the process of imprinting the traces of the productive mechanisms used.

Morphologic features of mechanical machinery treatment are seen as deformations (scratches and compression marks) on the surface of cases. When examined these traces one can distinguish the characteristics mirroring the construction, sizes and structure peculiarities of the reloading equipment working surface microrelief.

Thus, regularity of traces display on the reloaded cases is shown through the fact that the reloading equipment facilities earlier occupying predetermined and stable position relative to the reloaded case leave the traces of clear localization on the case surface (on the flange, body, incline, neck). They (the traces of reloading) point to the homemade technique of making cartridges, the examined reloaded cases being their parts.

Key words: cartridge, shell, reloading, press, matrix, mark.

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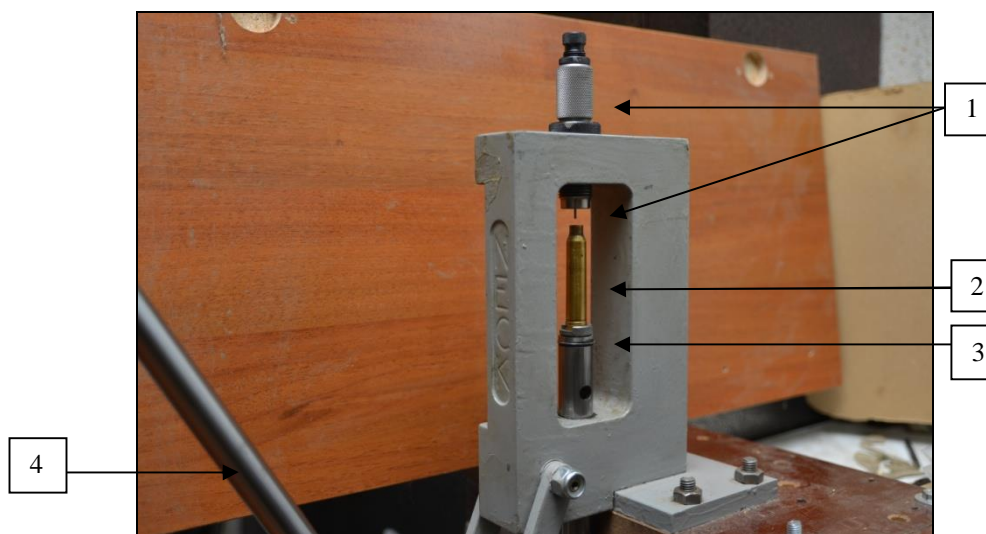
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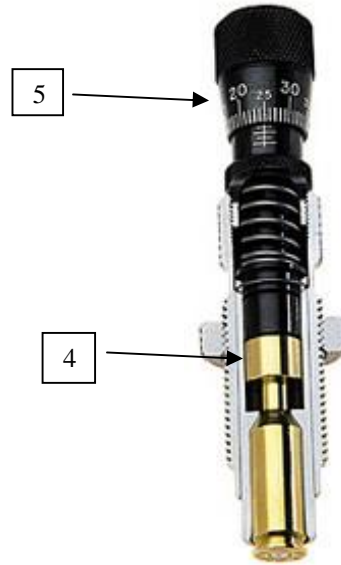
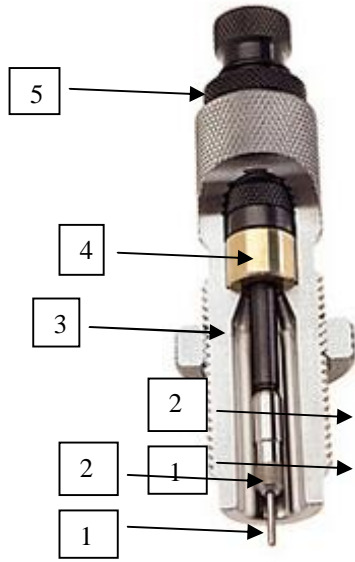
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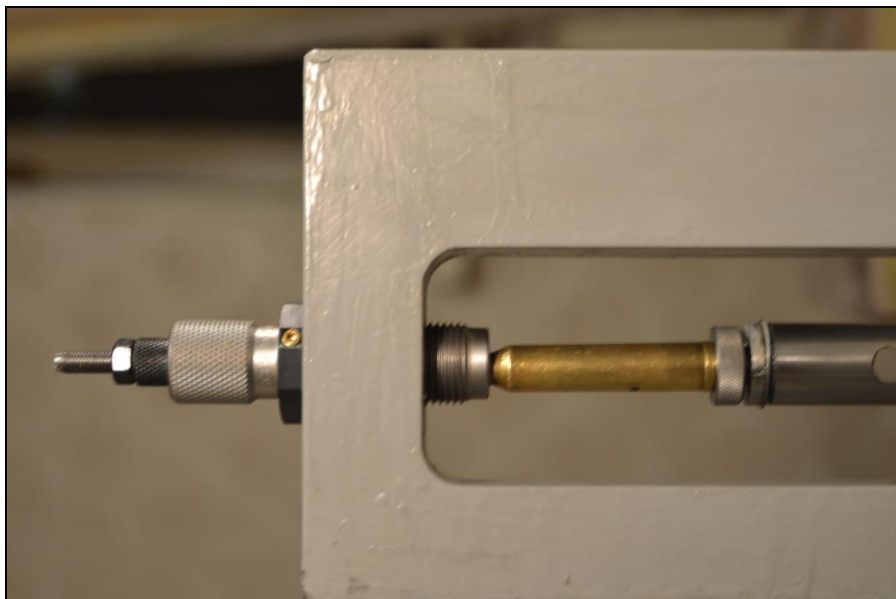
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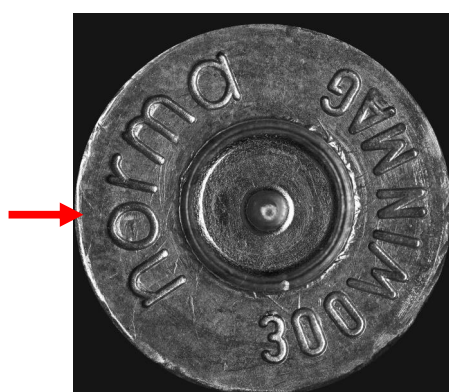


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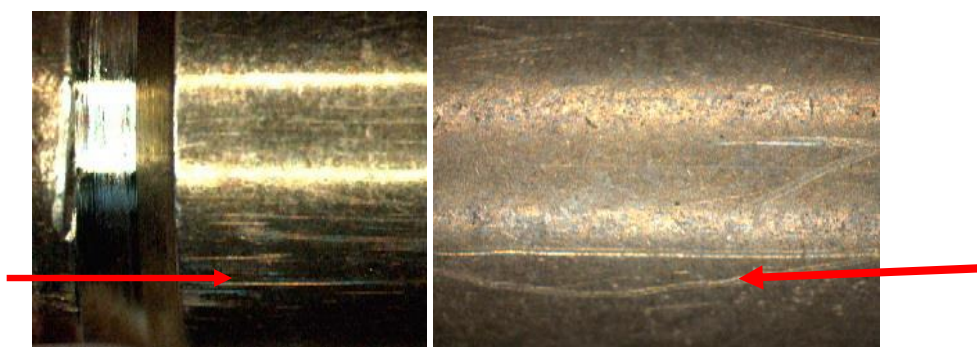
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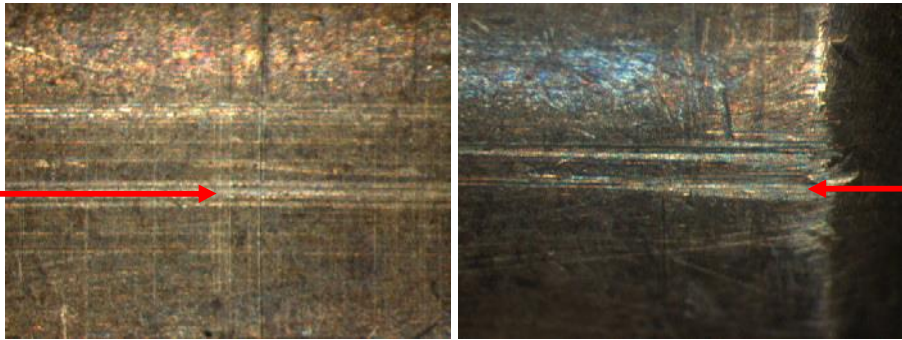
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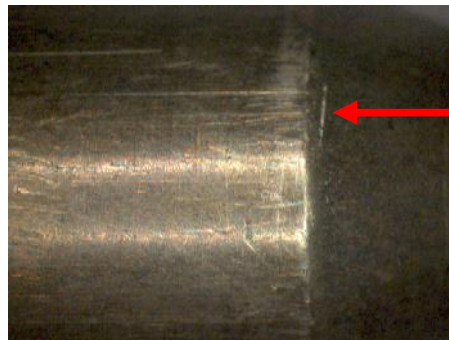
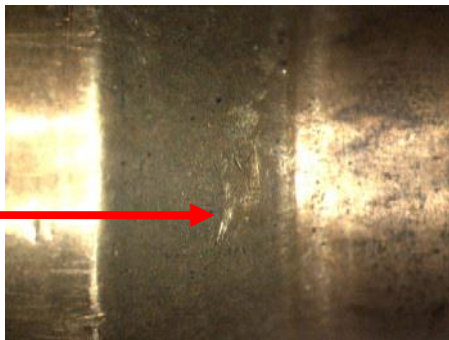
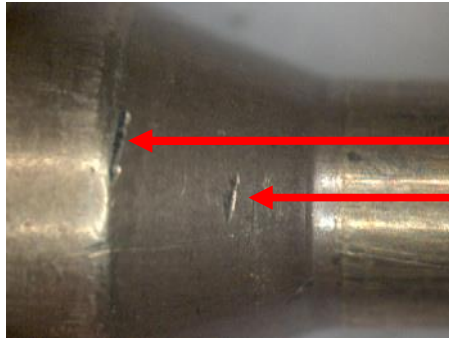
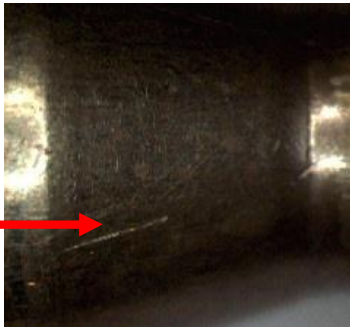
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1. Федеральный закон от 13.12.1996 № 150-ФЗ «О оружии». URL: <http://www.consultant.ru/cons/cgi/online.cgi?req=doc&base=1&doc=LAW&docLAW=150-ФЗ&base64=1>. - 2016. - № 3 (47). - С. 50. 62.

2. Кокін А. В. Особенности криминалистического исследования самоходных патронов для нарезного огнестрельного оружия. // *Судебная экспертиза*. - 2016. - № 16. - С. 229. 233.

3. Гвоздкова Л. С., Гвоздков С. Н. Механизм слепообразования на патронах при повторном использовании. // *Известия Саратовского университета. Новая серия. Серия: Экономика. Управление. Право*. - 2016. - Т. 16. - Вып. 2: 229. 233.

4. Guns.ru . forum about weapons: site. URL: <http://www.forum.guns.ru> (дата обращения: 12.02.2019).

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References

1. Federal law No. 150-FZ of 13.12.1996. *On weapons*. St. 16. Available from: reference and legal system ConsultantPlus.

2. Kokin A. V. Peculiarities of forensic examination of the self-loaded cartridges for rifled firearms. *Forensic examination*. 2016; 47 (3): 50. 62.

3. Gvozdikova L. S., Gvozdikov S. N. Mechanism of traceformation on cases during reloading when repeated use. *Izvestiya of Saratov University. New Series. Series: Economics. Management. Law*. 2016; T. 16. Vip. 2: 229. 233.

4. *Guns.ru . forum about weapons: site*. Available from: <http://www.forum.guns.ru> [Accessed 12 February 2019].

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E. V. Suchkova,
Head of the Department of Examination of Biological Objects
of the Expert-Criminalistic Center of the Ministry of Interior of Russia,
Candidate of Science (Biology)

**STATE-OF-THE-ART CAPABILITY AND OPPORTUNITY
OF THE RESEARCH OF THE HUMAN HAIR AND ANIMAL FUR**

In spite of state-of-the-art capability and opportunity of the research of the human and animal hair are the current trends of the forensic biological examination, these very objects of study are underestimated by them who get over to that accident site.



Lower output of the exclusion of hair and fur may result in loss of important information for the investigation.

In this very article we situate the experiences in the field of research of different kinds of animal fur, problems of digital classifications of pigment and background of cortical layer, the possibility of the research of the human's nuclear DNA which is deprived hair bulbs. Russian and foreign literature sources were analysed. Promising avenues of the research of the human and animal hair are determined: the scientific research aims to the comparative study of the cow and different breeds of dogs arthropods; the development of aligned methodology how to determine the color of the morphological characters; an assessment of the feasibility of the study of the nuclear DNA in the scapus pili. This very information can give us a broader perspective about the possibilities of forensic analysis of hair and is very relevant for detectives and biological experts.

Key words: the forensic biological examination of hair, research of the human and animal hair, perspective of quantitative assessment of hair's color, research of the human's nuclear DNA.

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 10. ... : 2001. 158 .
 11. Differentiation of human hair by colour and diameter using light microscopy, digital imaging and statistical analysis / M. Mills [et al.] // Journal of Microscopy. 2018. Vol. 270 (1). P. 27. 40.
 12. Digital imaging and image analysis applied to numerical applications in forensic hair examination / E. Brooks [et al.] // Science & Justice. 2010. Vol. 50 (1). P. 28. 37.
 13. The forensic examination of black, brown, blond, and red hairs using digital imaging and colour analysis / L.Masaki [et al.] // Science & Justice. 2010. Vol.50 (1). P. 39.
 14. Paul M., Barton J. A forensic investigation of single human hair fibres using FTIR-ATR spectroscopy and chemometrics. Brisbane: Queensland University of Technology, 2011. P. 365.
 15. The HlrisPlex system for simultaneous prediction of hair and eye colour from DNA / S. Walsh [et al.] // Forensic science International: Genetics. 2013. 7. . 98. 115.
 16. The HlrisPlex-S system for eye, hair and skin colour prediction from DNA: Introduction and forensic developmental validation / L. Chaitania [et al.] // Forensic science International: Genetics. 2018. 35. . 123. 135.
 17. Predicting phenotype from genotype: normal pigmentation / R. K. Valenzuela [et al.] // J. Forensic Sci. 2010. 55. . 315. 322.
 18. ... // ... 2019. .5. 15 (... , ...). . 143. 144.
- © ... , 2019



References

1. Sokolov V. B., Petrishchev B. I. *The dermis of mammal (ungulates)*. Moscow; 1997.
2. Chernova O. F., Tselikova T. N. *Atlas of mammalsqhair. The fine structures of overhair and acanthas in the scanning electron microscope*. Moscow: Tovarischestvo nauchnykh izdaniy KMK; 2004.
3. Suchkova E. V., Razorenova O. I., Pimenov M. G. et al. *Modern methods in identification of the taxonomic exclusiveness of animalsqhair: Training manual*. Moscow: EK MVD Rossii; 2009: 104 .
4. *Expert templates of researching of the forensic evidence. Part 2* / Edited by A. Yu. Semenova; General editorship of Doctor of Science V. V. Martynova. Moscow: EK MVD Rossii; 2012: 800 .
5. Suchkova E. V., Malimenkova O. A., Kondrashov S. A. *Morphological characters of mammal which is rare: Reference manual*. Moscow: EK MVD Rossii; 2016.
6. Kuznetsov B. A. *Commodity research of secondary species of the animal materials*. Moscow: Akvarium-Print; 2005.
7. Parvulyusov Yu. B., Zhbanova V. L. The principle of state-building of the colorimeter for the assessment of saturated color. *News of higher educational institutions of geodesy and aerial photography*. Moscow; 2017; Vol. 61; 5: 122. 126.
8. Epifanov V. I., Pesina A. Ya., Zykov L. V. *The technology of diamond-cutting*. Moscow: Vysshaya shkola; 1982: 351 .
9. Kornilov P. I., Solodova Yu. P. *Gems*. Moscow: Nedra; 1986: 282 .
10. Martynenko G. V. *Research and development of the optoelectronic control system of chromatic characteristic of diamonds. Degree dissertations of Doctor of Science*. Moscow: Moskovskiy gosudarstvennyy universitet geodezii i kartografii; 2001: 158.
11. Mills M., Brettell T. et al. Differentiation of human hair by colour and diameter using light microscopy, digital imaging and statistical analysis. *Journal of Microscopy*. 2018; 1 (270): 27. 40.
12. Brooks E., Comber B., Mcnaught I. et al. Digital imaging and image analysis applied to numerical applications in forensic hair examination. *Science & Justice*. 2010; 50 (1): 28. 37.
13. Masaki L., Brooks E. M., Robertson J. et al. The forensic examination of black, brown, blond, and red hairs using digital imaging and colour analysis. *Science & Justice*. 2010; 50 (1): 39.
14. Paul M., Barton J. A forensic investigation of single human hair fibres using FTIR-ATR spectroscopy and chemometrics. Brisbane: Queensland University of Technology; 2011: 365.
15. Walsh S., Liu F., Wollstein A. et al. The HlrisPlex system for simultaneous prediction of hair and eye colour from DNA. *Forensic science International: Genetics*. 2013; 7: 98. 115.



16. Chaitania L., Breslin K., Zuniga S. et al. The HIrisPlex-S system for eye, hair and skin colour prediction from DNA: Introduction and forensic developmental validation. *Forensic science International: Genetics*. 2018; 35: 123. 135.
17. Valenzuela R. K., Henderson M. S., Walsh M. N. et al. Predicting phenotype from genotype: normal pigmentation. *J. Forensic Sci.* 2010; 55: 315. 322.
18. Smolyanitskiy A. G., Karaseva I. V., Smolyanitskaya A. I. Hair is an evidence. Practical solutions. *Forensic medicine. Science. Practice. Education*. 2019; Vol. 5; 15, Annex, April: 143. 144.

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.....

I. V. Kharchenko,

Associate Professor of the Chair of Criminalistic Technique
of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia,
Candidate of Sciences (Biological);

S. V. Konstantinov,

Chief Expert of the Department of Genomic Information Records
of the Directorate of Medical and Biological Examinations
of the Expert-Criminalistic Center of the Ministry of Interior of Russia

**THE EFFECTIVENESS OF DNA ANALYSIS
IN CLEARANCE AND INVESTIGATION OF CRIMES**

The article focuses on the main problems exerting influence on the effectiveness of forensic genetic examination (DNA analysis) aimed at solving and investigating grave and especially grave crimes, in particular against the person. The authors analyze problems to be solved while conducting examinations of this type and represent the main provisions of examination of this category. They show advantages of the method of DNA analysis in comparison with other types of identification examinations.

On the basis of statistical data about genomic information coming into the federal data base for the last 4 years the authors analyze the influence of the change in crime structure and quantitative characteristics of collecting objects of biological origin from the scene of an accident on clearance of violent crimes through the method of DNA analysis. The authors propose a number of measures to develop laboratories of forensic genetic examination which will help improve the results of expert-criminalistic support for the activities related to clearance and investigation of violent crimes at the present stage.

Key words: personal identification, forensic genetic examination, DNA analysis, clearance and investigation of crimes, biological traces, genomic recording, genetic profile, violent crimes, scene of an accident, forensic identification, expert-criminalistic records.

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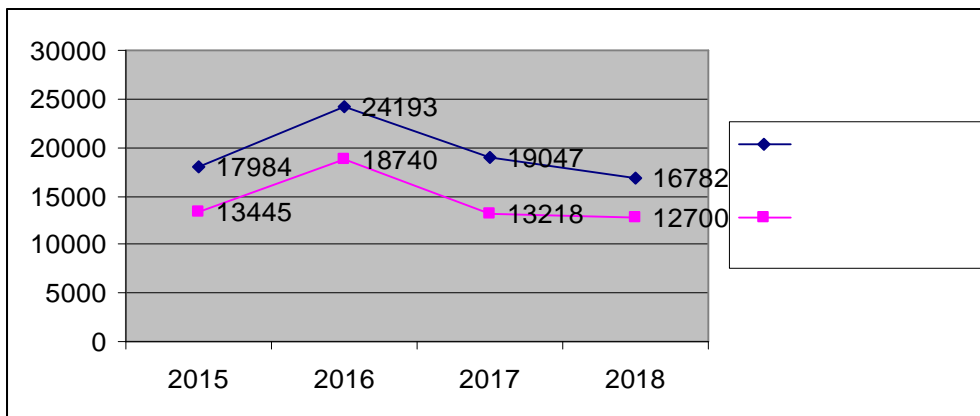
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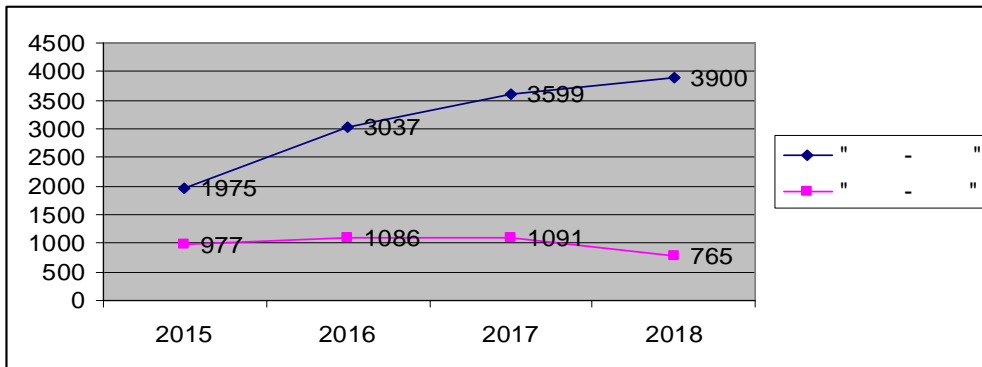
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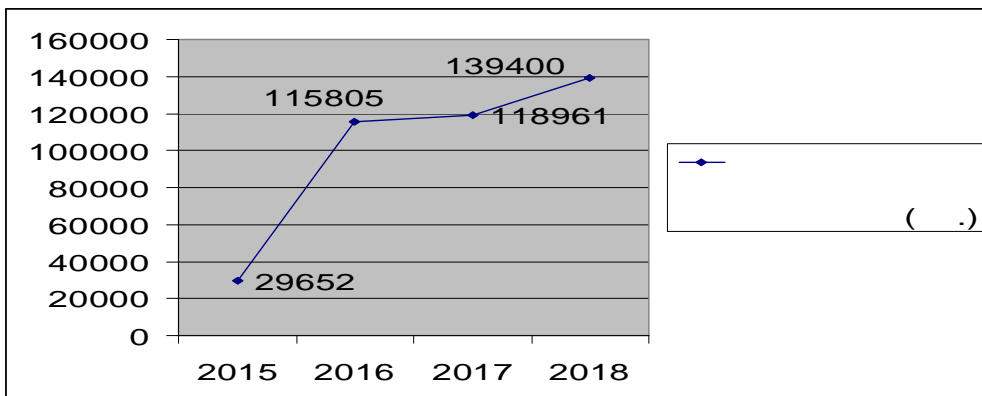


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© , 2019

References

1. Trusov A. I. Establishment of identity of a citizen of the Russian Federation who committed an offence. *Russian Justitia*. 2016; 9: 22. 25.
2. Bozhchenko A. P. Comprehensive diagnostics of personality's group properties based on finger dermatoglyphics. *Forensic Examination*. 2018; 3: 35. 51.
3. Burkova E. Through the help of genomic recording. *EZH-Jurist*. 2013; 38.
4. *Forensic examinations and studies conducted in expert-criminalistic subdivisions of the Ministry of Interior of Russia: study guide* / I. V. Kharchenko et al.; Ed. by I. V. Kharchenko, M. I. Geraskin. Volgograd: VA MVD Rossii; 2018: 184 p.
5. Kharchenko I. V., Dosova A. V. Possibilities of identification examinations for establishing a person's identity. *Legal science and practice: traditions and innovations. Proc. of the International Research-to-Practice Conference, March 25, 2016*. Moscow: Pero; 2016: 176 p.
6. Federal Law of Russian Federation No. 242-FZ of 3 December 2008. *On state genomic recording in the Russian Federation*. Available from refererce-legal system ConsultantPlus.
7. Perepechina I. O. Legal support for forensic DNA identification in the context of personal rights protection. *State Power and Local Self-government*. 2008; 11: 41. 46.
8. Order of the Ministry of Interior of Russia No. 882 of 23 November 2017. *Operational issues of software intended for the service of unified search federal system of genetic identification Ksenon 2*. Available from refererce-legal system ConsultantPlus.
9. Gostev A. A. Up-to-date examination: priorities and prospects. *Russian Police*. 2016; 4: 28. 32.

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* * *



N. V. Panshina,

Senior expert of the Expert-Criminalistic Center of the Ministry of Interior of Russia for the Yamal-Nenets Autonomous District;

A. A. Koryakin,

Head of the Department of Forensic Expertise of the Federal State Budget Institution «Forensic Expert Institution of the Federal Fire Service» Test Fire Laboratory» in the Irkutsk Region»;

A. A. Shekov,

Associate Professor of the Chair of Fire Technical Examination of the East-Siberian Institute of the Ministry of Interior of Russia, Candidate of Science (Chemistry);

A. A. Shaevich,

Professor of the Chair of Criminalistics of the East-Siberian Institute of the Ministry of Interior of Russia, Candidate of Science (Law), Associate Professor

CRIMINALISTIC RESEARCH OF TRACES OF THE EMERGENCY MODE OF OPERATION OF THE CIGARETTE LIGHTER WHEN THE FIRE INVESTIGATION VEHICLES

The qualified establishment of the fire source and the ignition source during the inspection of the scene and the production of judicial fire-technical expertise on the fact of ignition of the vehicle is complicated by the compactness of its components and units, as well as the loss of a significant amount of forensic information as a result of possible movement of the vehicle from the scene until the arrival of the investigator or investigator.

One of the most common causes of ignition of vehicles is the emergency operation of the electrical system, especially its elements, unprotected by fuses and under voltage when the ignition is switched off. Often, an emergency mode and fire leads to a violation of the driver's rules of operation of electrical equipment of the vehicle. In article on an example of research of the Hyundai Solaris car the order of check of the version of ignition of the vehicle from the thermal processes caused by the emergency mode of operation of the electric cigarette lighter at mechanical blocking of its button in the pressed position is considered.

Key words: fire-technical expertise, fire, car, fire cause, the examination of the crime scene.

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References

1. Degayev E. N. Auto transport is the zone of increased fire danger. In: *Modern automobile materials and technology (SAMIT-2015): Collection of Articles VII of the International scientific and technical conference*. Kursk: CJSC "University book"; 2015: 35. 37.
2. Skodtayev S. V., Kopkin E. V., Bardulin E. N. The analysis of practice of auto transport fire research by judicial and expert institutions by Federal Fire Service of the Ministry of Emergency Situations of Russia. *The problems of risk management in technosphere*. 2017; 42 (2): 117. 124.
3. Makletsov A. K., Plotnikov S. G., Kornilov A. A. Analysis of auto transport fire statistics. *Technosphere safety*. 2015; 4: 55. 60.
4. Bogatishchev A. I., Dovbnya A. V., Zernov S. I. (et al). *Investigation of the causes of vehicle fire: Textbook* / Under the editorship of Cand. Tech. Sci. A. I. Kolmakov. Moscow: EKT Ministry of Internal Affairs of the Russian Federation; 2003: 82 .



5. Voroshilov R. F., Motorygin Yu. D. The analysis of indirect signs of malfunctions of the fuel system of vehicle for the purposes of fire-technical examination. *Vestnik St. Petersburg University GPS of the Ministry of Emergency Situations of Russia*. 2016; 2: 1. 6.
6. Rudenko M. B., Belyak A. L. Expert assessment of fire-dangerous manifestation of emergency operation of the electric network of vehicles. *Criminalistics: yesterday, today, tomorrow*. 2018; 4: 154. 159.
7. Sysoyeva T. P. *Complex method of research of metal products in order to establish the focal signs and causes of vehicle fire*: Dis. Cand. Tech. Sci. Saint Petersburg; 2015: 155 .
8. Eliseev Y. N., Plotnikov V. G., Skodtaev S. V. Features of the study of the electrical wiring of the vehicle at the place of fire. *Vestnik St. Petersburg University GPS of the Ministry of Emergency Situations of Russia*. 2016; 4: 8. 12.
9. Motorygin Yu. D., Kosenko D. V., Bibarsov R. Sh. Model of occurrence and development of the emergency modes in the electric network of the vehicle leading to the fire. *Problems of risk management in technosphere*. 2015; 4: 82. 86.
10. Popov V. I., Pesikin A. N., Zhivotyagina S. N. (et al). Features of fire danger of electrical equipment of cars. *Fires and emergency situations: prevention, elimination*. 2016; 1: 77. 81.

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A. S. Agafonov,

Adjunct of the East-Siberian Institute of the Ministry of Interior of Russia

**CRIMINALISTIC STUDY OF VARNISH AND PAINT COATINGS
IN THE INVESTIGATION OF CRIMES CONNECTED WITH CHANGE
OF MARKING VARIABLES OF VEHICLES**

In this article, on the basis of the analysis of the special literature and the study of autotechnical and physicochemical examinations, the forensic investigation of paint and varnish coatings is considered when investigating crimes related to the change of vehicle markings. Some issues of solving specific forensic, technological, physicochemical, and other tasks (using the full range of modern techniques) that constitute the practical feature of forensic materials research are touched upon. It is determined that the examination of vehicle coatings is often part of a comprehensive examination (for example, in conjunction with autotechnical).

The possibilities of modern infrared microscopes, which provide an expert with the study and analysis of microparticles using an integrated approach and current techniques, are presented. At the final stage, the main stages of a preliminary study of vehicle coatings are considered, where special attention is paid to a non-destructive method . luminescent microscopic analysis. It was concluded that the study of vehicle coatings should be carried out according to improved methods, well-proven and successfully tested in the leading forensic departments of the Russian Federation. This approach will guarantee comprehensive research, scientific validity and objectivity of the conclusions.



Key words: forensic investigation, examination of paint and varnish coatings, marking designations, vehicles, a preliminary study, forensic examination, microscopic examination, luminescent microscopic analysis.

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12. . . . - -805 . -
« » // . 2017. 5 (36). . 66. 68.
13. . . . -
// . 2018. 3 (55). . 56. 65.
14. . . . -
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: , 2016. 122 .

© . . . , 2019

References

1. Vardanyan A. V. Modern problems of forensic crime prevention theory: epistemological and legal aspects. In: *Criminalism: current issues of theory and practice. Collection of works of participants of the International Scientific and Practical Conference*. Moscow; 2017: 3. 9.
2. Golovin A. Yu. Forensic science: why are «ideas of the crisis» harmful? *News of Tula State University. Economic and legal sciences*. 2017; 3. 2: p. 9. 13.
3. Rossinskaya E. R. On the legal status of a judicial expert. *Bulletin of the University O.E. Kutafina*. 2018; 7: 15. 24.
4. Syromlya L. B. Modern opportunities for preliminary study of traces of paint and varnish coatings at the scene of a road accident. *Gaps in Russian legislation*. 2015; 1: 249. 256.
5. Gribunov O. P. Judicial examinations appointed in the investigation of crimes against property committed in transport. *Bulletin of the East-Siberian Institute of the Ministry of Internal Affairs of Russia*. 2016; 76 (1): 89. 97.
6. Order of the Ministry of Internal Affairs of Russia No 511 of 29 June 2005. *Issues of organizing the production of forensic examinations in forensic units of the internal affairs bodies of the Russian Federation*. Available from: reference and legal system ConsultantPlus.
7. Agafonov A. S. Features of the use of special knowledge in the investigation of burglaries in rural areas. *Forensic science: yesterday, today, tomorrow*. 2018; 5 (1): 8. 16.



8. Syromlya L. B. On the application of a comprehensive methodology for the preliminary study of a set of material traces at the scene of a road accident. *Forensic examination*. 2015; 42 (2): 150. 159.
9. Milovidova T. B. Problems of sampling in the forensic examination of materials, substances, products and possible ways to solve them. *Bulletin of the South Ural State University. Series: Right*. 2017; V. 17; 4: 27. 30.
10. Firsov O. A. Photo-recording of side slices of microparticles of vehicle paintwork. *Information security of regions*. 2014; 14 (1): 95. 98.
11. Ezhevskaya T. B, Bublikov A. V. Spectral wide-range IR microscopes MIKРАН». Application in Fourier spectrometry: methods of work and features. *Analytics*. 2013; 9 (2): 66. 73.
12. Ezhevskaya T. B, Bublikov A. V. FT-805 FTIR spectrometer . innovative development of the company «SIMEX». *Analytica*. 2017; 36 (5): 66. 68.
13. Kochubey A. V. A preliminary study of particles of paint coating. *Forensic examination*. 2018; 55 (3): 56. 65.
14. Golchevsky V. F., Zhigalov N.Yu. *Technological and criminalistic provision for the disclosure and investigation of crimes related to the forgery or destruction of vehicle identification numbers: monograph*. Irkutsk: FGKOU VO VSI MIA RF4 2016: 122 p.

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* * *

CONTACT INFORMATION

Agafonov Artem Sergeevich
agafonov_1990@mail.ru

Anchabadze Nugzari Akakievich
lenaosada@rambler.ru

Bardachenko Aleksey Nikolaevich
bardachenko-alex@rambler.ru

Bozhchenko Alexander Petrovich
bozhchenko@mail.ru

Bobovkin Mikhail Victorovich
mbobovkin@yandex.ru

Gvozdikova Lyudmila Sergeevna
gvozdikova.liuda@yandex.ru

Danilkin Igor Anatolyevich
i-danilkin@mail.ru

Danilkina Vitaliya Mikhailovna
v-danilkina@mail.ru

Dontsov Dmitry Yurievich
don3108@mail.ru

Dontsova Iulia Anatolevna
juando@rambler.ru

Zablotsky Peter Nikolaevich
nesanna22@mail.ru

Karimova Ilgiza Alexandrovna
karimova20.11@mail.ru

Kapustin Evgeny Viktorovich
evg-kapustin@yandex.ru

Konstantinov Sergey Valerievich
ciberdoc@mail.ru

Koryakin Alexey Alexandrovich
www.irk-ipl.ru

Latyshov Igor Vladimirovich
latishov@gmail.com

Panshina Natalia Valerevna
natasha_sun@ro.ru

Ruchkin Vitaly Anatolievich
v.ruchkin@yandex.ru

Starichkov Maksim Vladimirovich
maximstar@narod.ru

Suchkova Elena Vladimirovna
evsuchkova@mail.ru

Trubkina Olga Viktorovna
1234q@mail.ru

Kharchenko Irina Vladimirovna
a258a216@mail.ru

Chulkov Igor Aleksandrovich
chulkov09.02@mail.ru

Shaevich Anton Alexandrovich
saant@list.eu

Shekov Anatoly Alexandrovich
shek@inbox.ru

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: **c-expertisa@yandex.ru.**

www.antiplagiat.ru.

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