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**ON THE ISSUE OF JUDICIAL REFORM-EXPERT ACTIVITY  
IN THE RUSSIAN FEDERATION**

The subject, the purpose of the work. The topic of the study is relevant due to the fact that in the context of the ongoing improvement of judicial proceedings in the Russian Federation, the problems of the quality of forensic examinations have worsened. The necessity is indicated and the ways of reforming the organizational, legal and methodological support of forensic expert activity by improving its individual areas are shown.

The aim is to study the problems of forensic expert activity, the possibility of improving the organizational, legal and methodological foundations of this activity in the Russian Federation.

Methods: methods of system-structural, comparative-legal and statistical analysis, formal-logical, general scientific and private scientific methods of scientific cognition were used in the study.

Results: based on the review of various approaches of domestic scientists and expert practitioners to the search for ways to solve the problems of forensic expert activity, the necessity of reforming organizational, legal and methodological support in order to increase the effectiveness of forensic expert support of legal proceedings is proved. The issues of accreditation of forensic expert organizations (laboratories)



in accordance with the international standard are considered; issues of legal regulation of forensic expert activities outside state forensic expert organizations.

Scope of application of the results: The results of the study can be used in the activities of forensic expert organizations, during training and advanced training courses for forensic experts, when working to improve legislation on forensic expert activities in the Russian Federation.

Conclusions: Recommendations and proposals for the reform of forensic expert activity will improve forensic expert activity, which, ultimately, will lead to an increase in the quality of forensic examinations and legal proceedings in general.

*Key words:* forensic expert activity, reformation, expert, forensic expert organizations, standardization, methods, expert methodology, expertise.

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**ON THE REGULATION  
OF THE MECHANISM OF PREVENTIVE EXPERT ACTIVITY**



Preventive activities in all spheres of life of the community have an important place. However, without proper elaboration of the mechanism, preventive activities do not bring the expected results. The preventive activity of the forensic expert is not an exception. Many years have passed since the emergence of the private theory of expert prevention, but the practical application of this theory is minimal and episodic. The main reasons can be considered the lack of normative legal support for the implementation of the expert's preventive activities, control over the implementation of preventive recommendations, their generalization and dissemination to the relevant organizations, government agencies and the interests of the persons involved. The author proposes to consider the experience of the functioning of the expert prevention mechanism in the field of investigation of air accidents. The regulatory regulation of this mechanism is considered, taking into account the EAEU member states. Conclusion is made to adapt the experience of preventive activities of experts in the investigation of air crashes, adopting a unified interdepartmental instruction for the implementation of preventive activities of a forensic expert in various types of legal proceedings.

*Key words:* expert prevention, forensic expert, forensic examination, Rules of investigation of aviation accidents and aviation incidents.

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**JUDICIAL STUDY: CURRENT DEVELOPMENT ISSUES**

The article highlights the current state and the main trends in the further development of forensic handwriting studies in the Russian Federation.

The authors define procedural and non-procedural forms of using special handwriting knowledge in legal proceedings and other law enforcement activities, formulate their current scientific tasks in relation to them.

The opinion is expressed that the main directions of the development of forensic handwriting include: regulatory, material and technical, informational, professional and personnel, international, special events (certification, standardization, validation), theoretical, experimental, methodological, organizational and tactical, cybernetic. The content of each direction is revealed.



It is concluded that the indicated directions of development of forensic (forensic) handwriting studies are already being carried out in our country, and in case of successful implementation, the knowledge gained is ways to maintain the leadership of the Russian Federation in the world arena, which requires consolidating the efforts of the entire forensic expert community.

*Key words:* forensic handwriting, forensic handwriting examination, procedural and non-procedural forms of using special handwriting knowledge, information and reference, consulting, preventive, operational search activities of an expert and handwriting specialist.

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**THE POSSIBILITIES OF STUDYING IMAGES  
OF BODY PARTS OF LIVING PERSONS  
IN THE PRODUCTION OF FORENSIC PORTRAIT EXAMINATION  
AND STUDIES**

The article discusses the problematic issues of the production of expertise and research on the mapping of human body parts. The analysis of the work of the forensic units of the Ministry of Internal Affairs of Russia shows the relevance of this type of expertise and research in order to establish the identity of the appearance of the captured persons. However, at present, the formulation of tasks for the study of lifetime representations of human body parts is debatable. The authors of the article argue that these studies are carried out within the framework of portrait expertise. The article draws attention to important points both in the direct production of portrait studies and in the preparation of the text of the expert opinion. The material of the publication is based on the analysis of methodological literature, as well as the practice of conducting forensic portrait examinations in the forensic units of the Ministry of In-



ternal Affairs of Russia. The article also substantiates the consideration of the expert's competencies when choosing the type of examination by the head. The material includes examples from the texts of expert opinions and references of specialists in the study of the mapping of human body parts.

*Key words:* forensic portrait examination, human appearance, habitoscopy, object of research, image of human body parts, verbal portrait, system of description of appearance, elements and signs, expert opinion, competence, evidence, crime investigation bodies.

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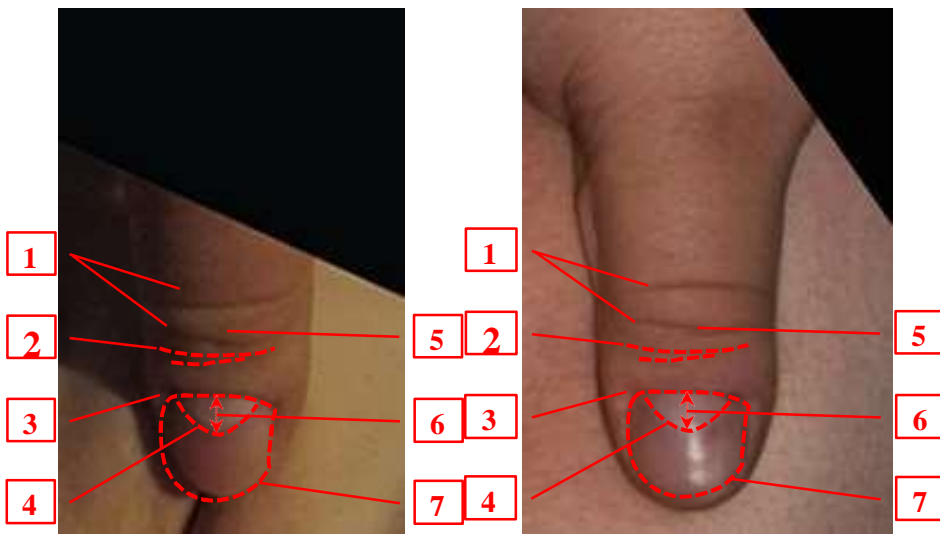
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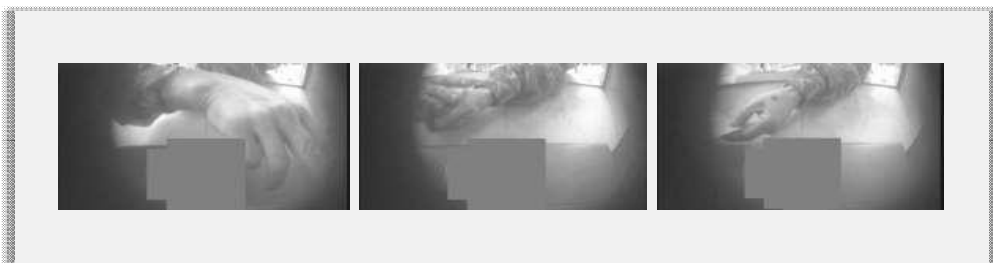
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343.982.323  
doi: 10.25724/VAMVD.WQRS



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**V. F. Finogenov,**

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**FEATURES OF THE ASSESSMENT OF SIGNS OF APPEARANCE  
AND THE FORMATION OF CONCLUSIONS IN THE PRACTICE  
OF PRODUCTION OF PORTRAIT EXAMINATIONS  
ON DIGITAL VIDEO IMAGES**

The article deals with topical issues related to the problems of assessing anatomical elements and signs of appearance and forming conclusions during forensic portrait examinations on digital video images. At the same time, it is emphasized that the assessment of anatomical elements and signs of appearance displayed on digital video images should be consistently carried out by an expert at each of the four stages of forensic portrait examination. This is due to the peculiarities of the means of obtaining modern digital objects with video images of the appearance of a person's face and figure. In particular, when evaluating anatomical elements and signs of appearance displayed on digital video images, it is necessary to take into account all factors affecting the reliable display and change of these elements and signs. And also in the comparative examination of the signs of appearance, it is necessary in each case to use the entire arsenal of evaluation methods developed in the practice of forensic portrait examinations, which, complementing the main empirical method, provide a greater degree of objectivity and foundation of the expert's conclusions.

Based on the analysis of portrait examinations on digital images from practice, the article outlines the foundations and formulations of five types of expert. The materials of the article will help experts in practice more effectively solve existing problems in conducting forensic portrait examinations and generally improve their quality.

*Key words:* forensic portrait examination, video images, assessment of anatomical elements and features, the expert's conclusions.

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candidate of science (law), associate professor

**PROBLEMS OF SOLVING  
THE CLASSIFICATION AND DIAGNOSTIC TASK OF DETERMINING  
THE AGE OF THE IMPLEMENTER OF A MANUSCRIPT**

The analysis of the practice of forensic handwriting examinations related to determining the age of the implementer of a handwritten text shows that when conducting these types of examination experts face difficulties in applying the currently available model methods for solving the given task. The predominance of conclusions about the impossibility of solving the issue in its essence indicates the lack of reliability of the developed methods. The results of questionnaire surveys of employees of expert criminalistic units as well as investigators and inquiry officers show the low level of trust in these methods.

This article is devoted to the study of validity of the methods for determining the age of the implementer of a handwritten text developed in 1995 in the Expert Criminalistic Center of the Ministry of Internal Affairs of Russia. It reflects the data based on the conducted experiment on the credibility of conclusions about the age of the implementer of a manuscript for different age ranges. The author analyzes the qualitative and quantitative content of informative signs distinguished by specialists, describes objective and subjective factors affecting the decrease in the credibility of conclusions and expert decision making, and reveals typical shortcomings connected with violation of the rules for applying the methods for determining the age of the implementer of handwritten texts.

*Key words:* classification and diagnostic tasks, determining the age of the implementer of a manuscript, informative signs.

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52		основной части 3-го эле- мента - большая	I	-0,10
			II	-0,39
			III	-0,08
			IV	-0,46
			V	0,12

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	I2		нижней части 2-го элемента - угловатая		
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53		начальной части 2-го элемента - на уровне средней части элемента	I	1,02
			II	1,64
			III	0,01
			IV	0,97
			V	-0,01


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2		буквы в целом - упрощенная, по типу цифры "4"	I	-0,18
			II	-1,02
			III	-0,94
			IV	-0,13
			V	1,19
II		основной части 1-го элемента - прямолинейная	I	0,21
			II	-0,16
			III	-0,68
			IV	0,65
			V	-0,40
I4		нижней части 1-го элемента - прямолинейная	I	0,64
			II	0,77
			III	-0,72
			IV	1,28
			V	0,90
I8		2-го элемента - прямолинейная	I	0,11
			II	-0,53
			III	-0,12
			IV	0,64
			V	-0,10

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53		начальной части I-го элемента - большая	I	-0,61
			II	-0,45
			III	-0,75
			IV	0,06
			V	0,67

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15		основной и заключительной части - петлевая	I	0,38
			II	0,34
			III	0,18
			IV	0,45
			V	0,14

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2		усложненная, по типу циф- ры "6"	I	0,64
			II	-0,62
			III	-1,63
			IV	1,97
			V	1,19
25		над верхней частью овала	I	0,53
			II	1,18
			III	-0,26
			IV	-0,82
			V	-0,03

34		начальной части I-го эле- мента - большая	I	-0,15
			II	-0,30
			III	-0,23
			IV	-0,66
			V	-0,45
56		верхней части I-го элемен- та - значительно выше верх- ней части 2-го элемента	I	1,05
			II	-1,34
			III	-0,02
			IV	-0,13
			V	-0,89

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21		верхней части - интер- вальный	I	0,67
			II	1,04
			III	0,10
			IV	0,69
			V	0,40

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68		верхней части 3-го элемента - ниже верхней части 1-го элемента	I	0,19
			II	-0,11
			III	-0,17
			IV	-0,20
			V	0,15

69		верхней части 3-го элемента - выше верхней части 1-го элемента	I	0,32
			II	0,27
			III	0,08
			IV	-0,02
			V	-0,54

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The article considers the peculiarities of forensic research of production and technological traces formed by metal-cutting equipment and tools.

The aim of the study is to establish a set of diagnostic and identification features of metal cutting equipment and tools in order to obtain orienting, search and evidentiary information. For the most part, objects made using said equipment and tool have an individual set of properties and features that carry information about the methods, conditions of manufacture (processing) of objects, and the source of their origin.

The study contains an analysis of theoretical and methodological aspects of the study of production and technological processes from a forensic point of view.

The findings of the study are based on and supported by the results of experimental studies. Attention is paid to preliminary investigation of traces of production and technological equipment and tools.

*Key words:* metal cutting equipment, tool, preliminary study, comparative study, diagnostic features, identification features.

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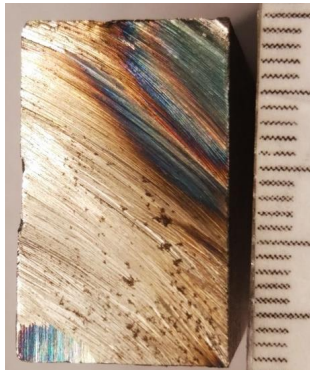
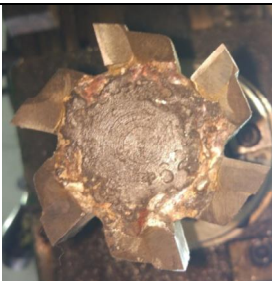
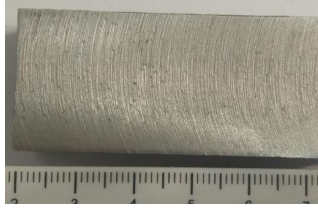
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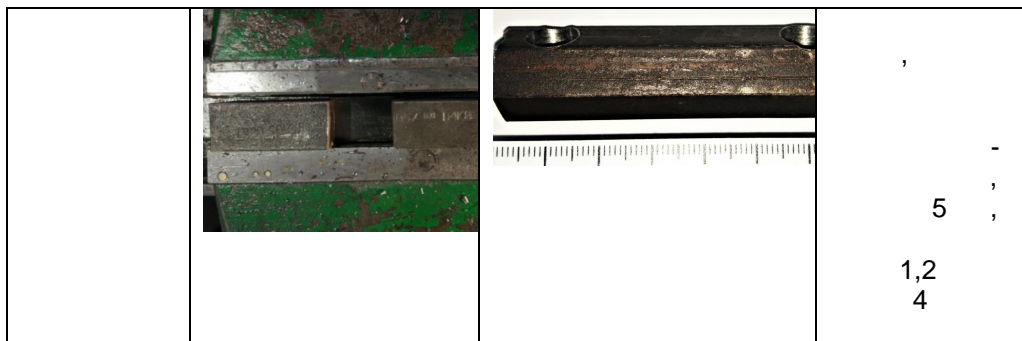


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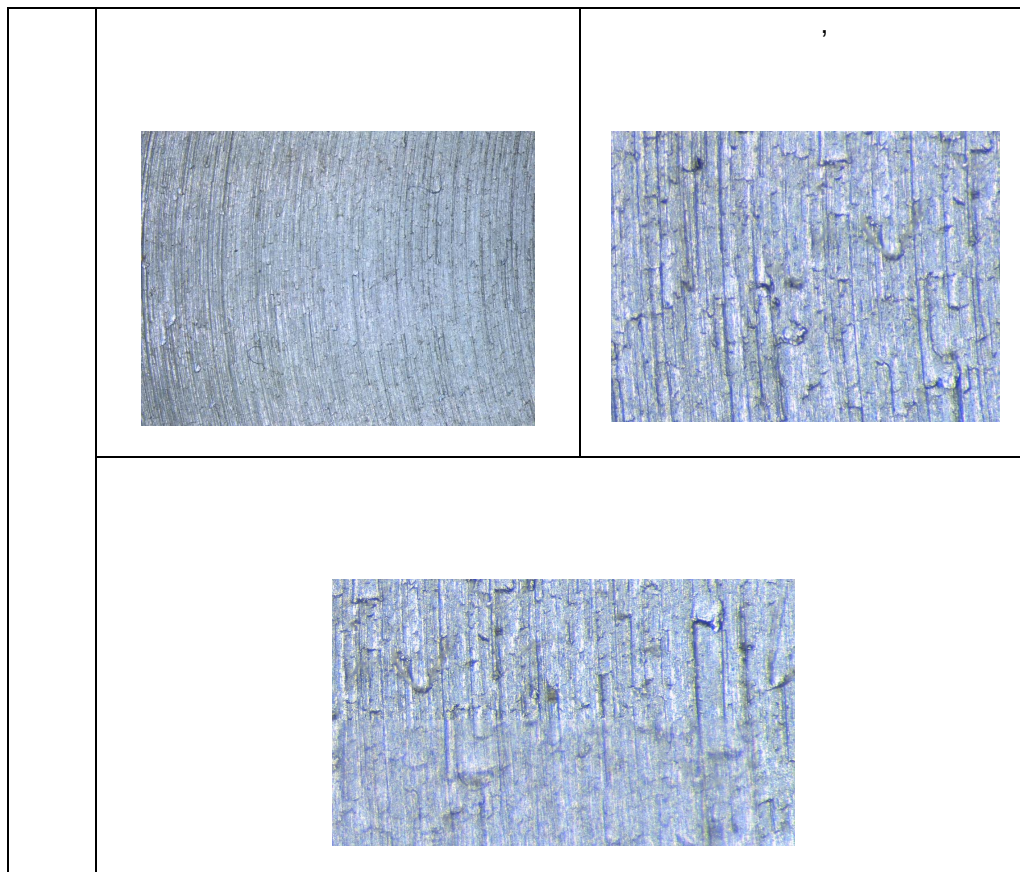
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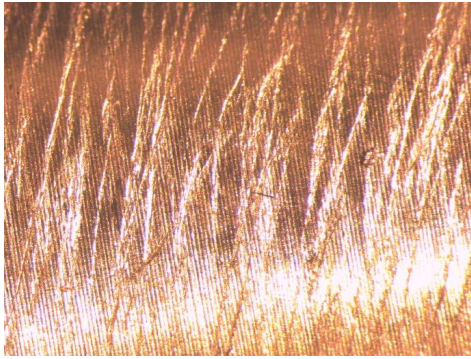
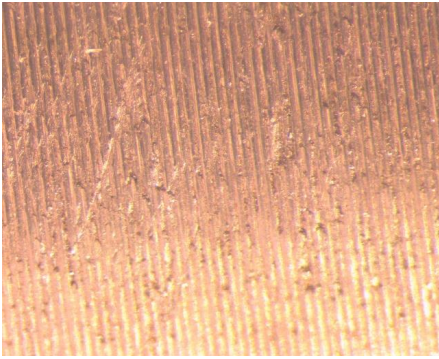
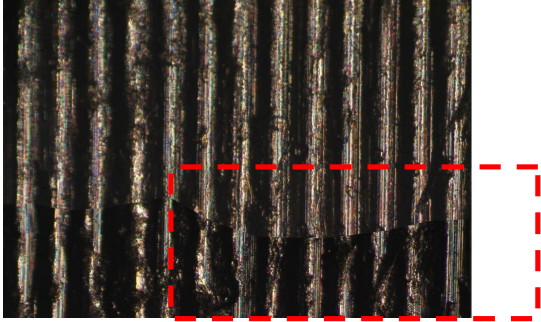
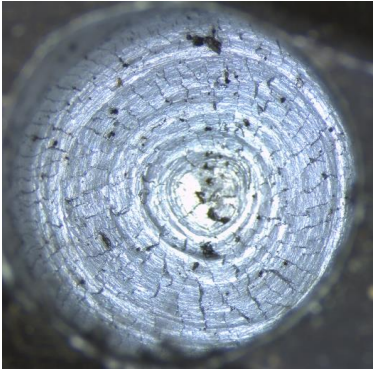
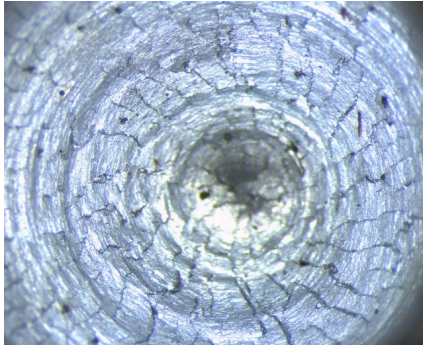
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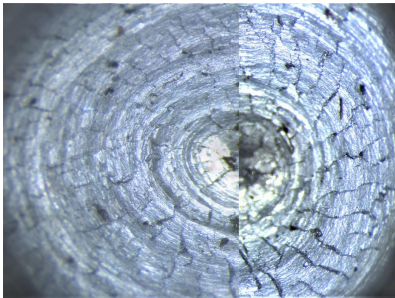
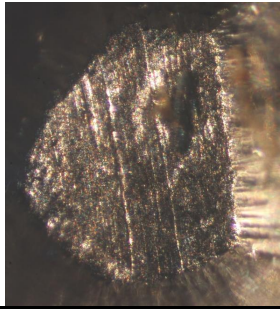
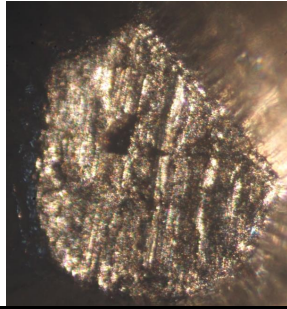
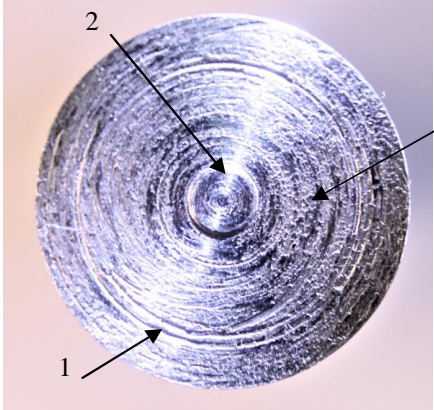
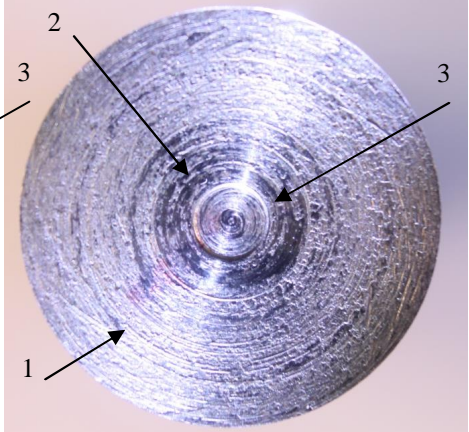


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**INVESTIGATION OF SMOKING AND CHEWING TOBACCO PRODUCTS BY PHYSICAL AND CHEMICAL METHODS**

Currently, various analogs of conventional tobacco products (cigarettes) are gaining more and more popularity, such as: electronic cigarettes, nasvay, snus (chewing tobacco), dry snuff, as well as various smoking mixtures containing narcotic and psychotropic substances (hashish, spice, etc.). Therefore, in expert activity today, the problem of studying the qualitative composition of the objects under study is especially urgent, as well as the development of a methodology for studying modern smoking mixtures.

The subject of the research is the qualitative analysis and development of methods for smoking and chewing tobacco products of various origins. The object of the research is the analysis of normative and legal literature, methodological manuals, GOSTs and additional literature. The aim of the work is to develop a research methodology for studying the composition of the obtained samples and referring the components of this composition to harmful substances for the human body. In the presented work, general scientific methods were used (analysis, generalization of information, study of special and reference literature), as well as a set of research techniques (chemical and physicochemical research methods).

*Key words:* tobacco products, chewing tobacco, examination of tobacco products, physicochemical methods of analysis, chromatographic analysis method, study of the composition of tobacco products.

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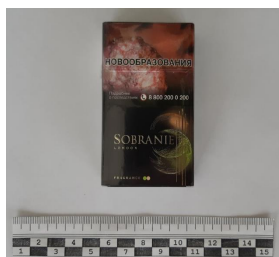
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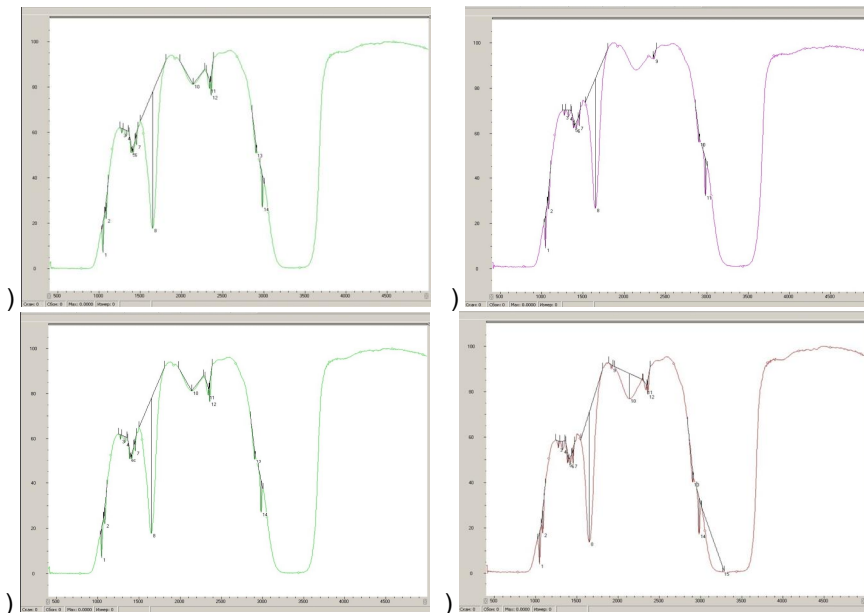


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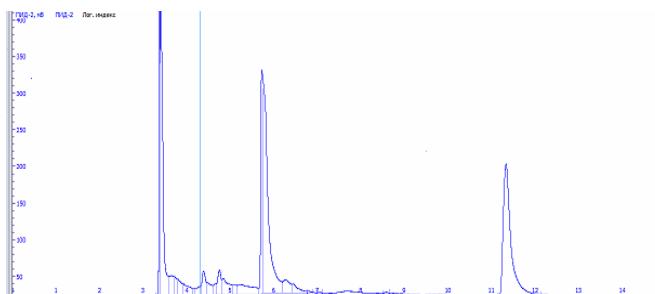
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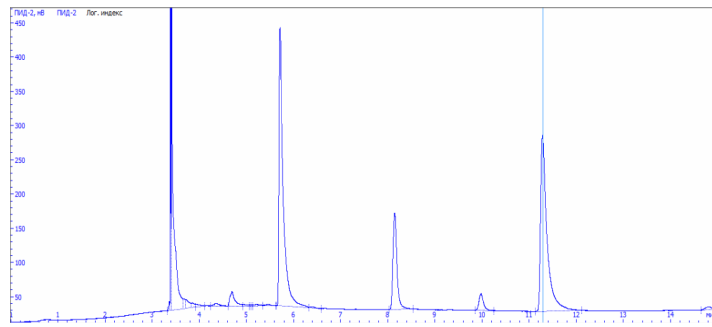


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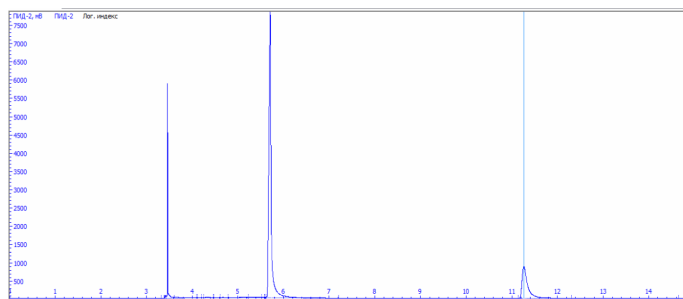
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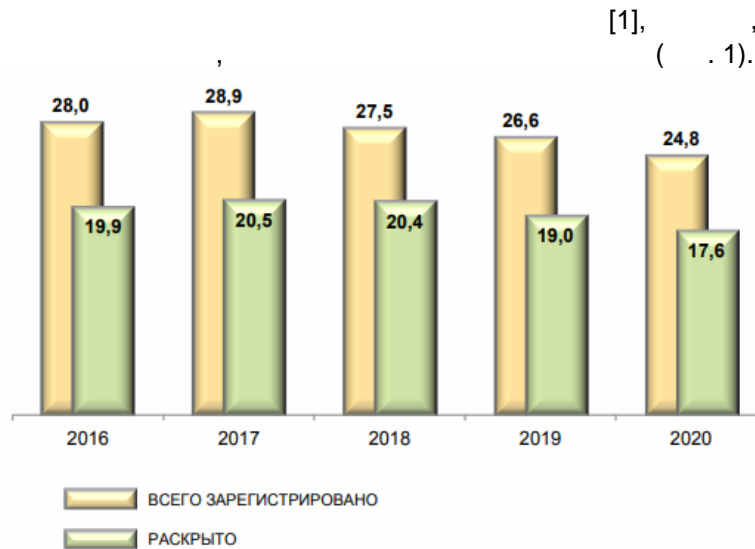
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### THE POSSIBILITY OF ESTABLISHING THE TYPE OF WELDING EQUIPMENT BY WELDING TRACES ON HOMEMADE FIREARMS

One of the urgent problems is the manufacture of homemade firearms and their illegal trafficking in modern society. In its manufacture, criminals use modern welding machines and welding materials. When detecting traces of modern welding machines on homemade firearms, experts face difficulties in diagnosing them. In this regard, the authors of the article analyzed more than 50 expert opinions and established common types of welding used for the manufacture of homemade weapons. During the experiments, welding seams formed by two arc welding technologies were obtained, namely welding with a melting piece electrode and semi-automatic welding in a protective gas environment. The authors have studied and described the morphological features of welding seams allowing to differentiate the types of arc welding.

*Key words:* welding machines, arc welding, welding traces, welding seam.

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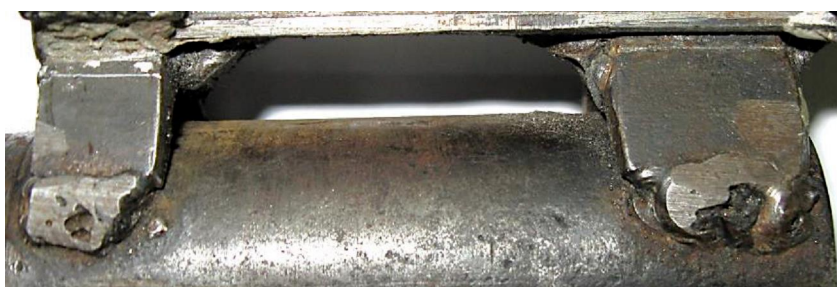


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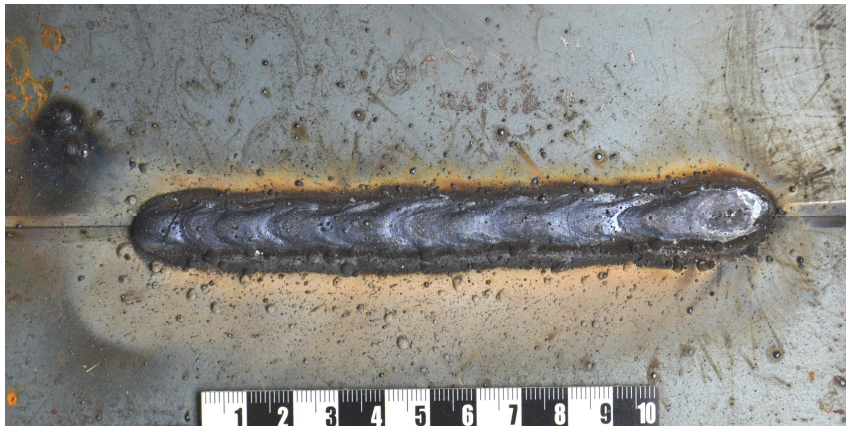
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**MICROSCOPE MSP 3D-M AS A TOOL  
FOR SOLVING EXPERT PROBLEMS**

The article deals with the issues of using the technological resources of the microscope MSP 3D-M in solving problems of forensic examinations. It is noted that the original design of the microscope provides observation of objects at an angle of 45 degrees. This is achieved by changing direction of the optical axis by a system of mirrors located in a module rotating around the optical axis and controlled by an electromechanical drive. The object is illuminated by a ring LED illuminator. The approbation of the microscope showed that its features provide an effective solution to problems of identifying and assessing traces of different localization and morphology (firearms, hacking tool, etc.), and studying of defects in product structure. The process of a circular panoramic examination of an object carried out on a microscope is comfortable for an expert. It is carried out with the set parameters (type of illumination, viewing angle), accompanied by the possibility of extracting a frame with important forensic information from the panoramic pictures row. The possibility of capturing video clips available in the microscope gives certain advantages in the preparation of illustrative material by an expert. In general, there is reason to speak about the advisability of using a microscope in the forensic ballistic, traceological examination, the study of objects of computer-technical examination.

*Key words:* forensic examination, macroscopic, object of research, circular panoramic inspection.

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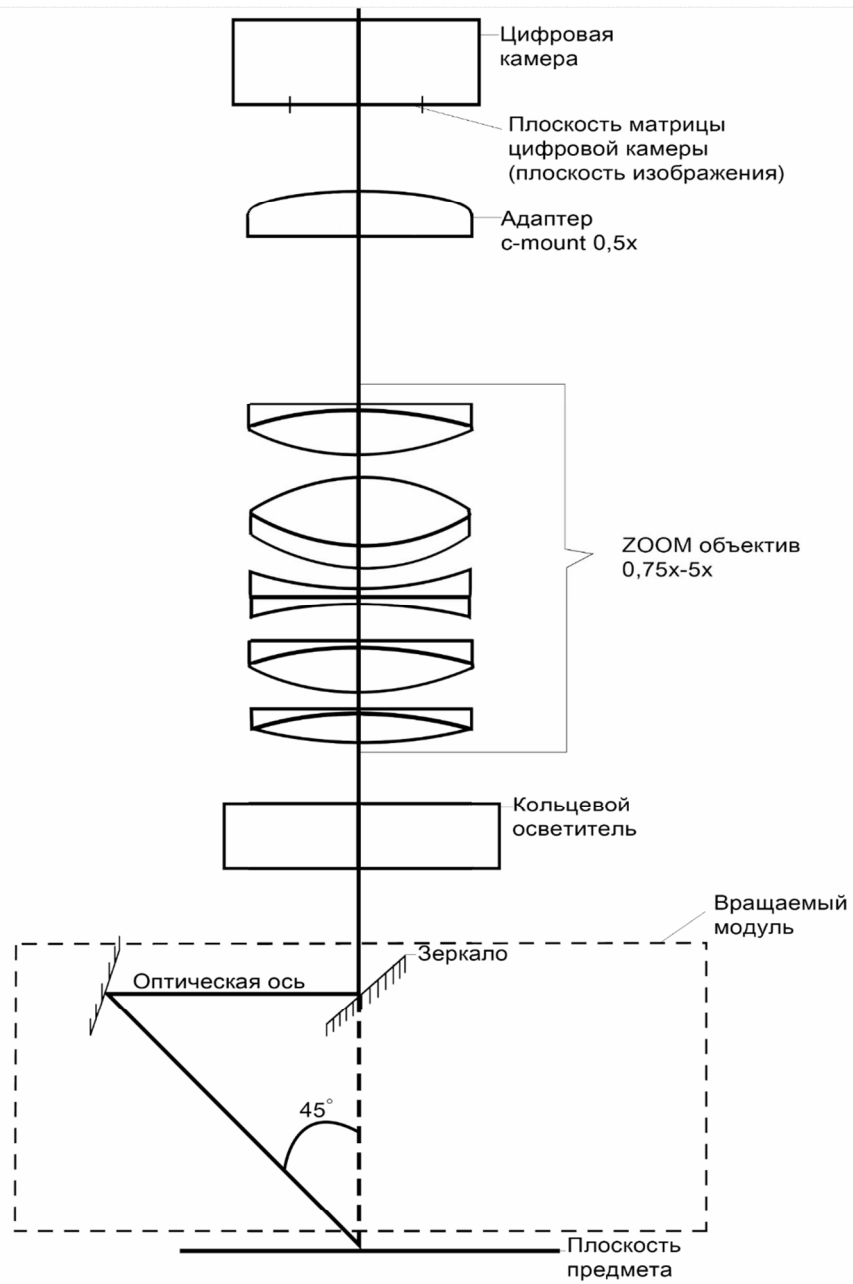
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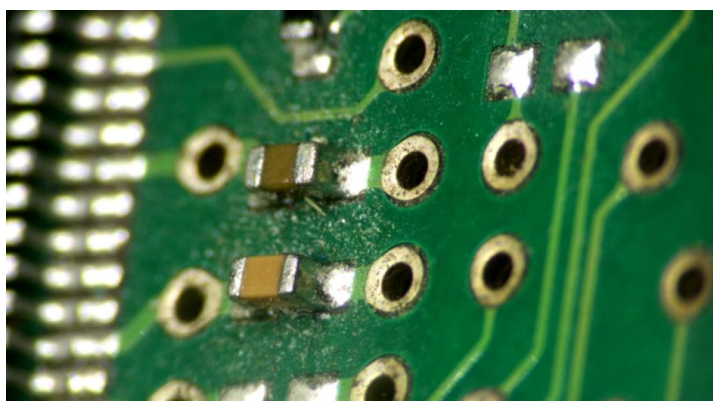


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The article highlights the general scientific and forensic data that reveal the essence of writing in forensic handwriting.

The opinion is expressed that scientific research in this area covers the patterns of the formation and functioning of the written skill of a person that underlies writing . a complex object of forensic handwriting examination.

The main attention is paid to the data of linguistics, psychology, physiology, medicine, forensic science, which constitute the fundamental basis of forensic handwriting studies and serve as the central condition for its further development. It is noted that in the structure of speech activity, the operation of the written way of forming and formulating thoughts through language is accompanied by the use of writing tools and materials as means of fixing the subject's thoughts in the manuscript. At the same time, the product of writing . the manuscript is a material object preserved in time, and the product of speaking . the utterance is characterized by the property of simultaneity.

It is concluded that knowledge about the essence of writing is of a combined nature. They include general scientific and special provisions that correspond to the modern understanding of the synthetic nature of forensic science.

*Key words:* essence of writing, patterns of formation and functioning of a person's writing skills, forensic handwriting studies, forensic handwriting examination.

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