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**ON THE RESULTS OF CONSULTING ACTIVITIES
OF A SPECIALIST THROUGH THE LEGAL POSITIONS
OF THE SUPREME JUDICIAL AUTHORITIES**

The article deals with the issues on the subject-matter of the specialist's conclusion to be a piece of evidence. Based on the analysis of establishing the institution of competent persons, the legal institute of forensic examination as well as the institu-



tion of a specialist in the Russian criminal-procedural law, the author concludes that the procedural functions of a specialist and a forensic scientist should not be mixed. From the author's point of view the ideological reference point while determining the essential differences between the procedural figures - a specialist and a forensic scientist - should be the legal positions of the Plenum of the Supreme Court of the Russian Federation and the Constitutional Court of the Russian Federation. These supreme judicial authorities emphasize that within the criminal procedural activities the specialist has no right to make an examination. If it is necessary to make a study to establish the circumstances relevant to the criminal case, a forensic examination should be assigned. This legal practice is also accepted by the European Court of Human Rights while examining the complaints of citizens of the Russian Federation.

The article deals with the dispute of the scientists who do not take into account these legal positions formulated according to the specialist's conclusion.

Key words: specialist's conclusion, consulting activity of a specialist, competent persons, specialist institute, forensic examination, legal positions.

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**OPPORTUNITIES AND PROSPECTS OF DERMATOGLIFICS RESEARCHES
IN FORENSIC MEDICINE AND CRIMINALISTICS**

In article three directions of use of data on a structure of papillary patterns of the person. In such cases, when an intravital hand prints are considered (in the presence of a postmortem hand prints or hand prints from the scene). First direction: use as comparative material of a hand prints of condanguinity relatives of the checked face · within the judicial and genetic dermatoglyphic analysis. The second direction · diagnostics on papillary patterns of fingers of arms (and other sites of a cristae cutis) the general signs of the person. Such as race, sex, age, body length, congenital diseases, etc. The third direction · the solution of expert reconstructive tasks (definition of anatomic accessory of the studied fragment of a body or a trace, establishment of accessory of parts of the dismembered corpse or trace to one or several different persons). For each direction objective prerequisites, advantages, tendencies, the remaining prospects, problems and their possible decision are defined.

Key words: dactyloscopy, dermatoglyphics, papillary pattern, hand prints, footprints, person identification, diagnostics, person's signs, rise, sex, age, body length, consanguinity.

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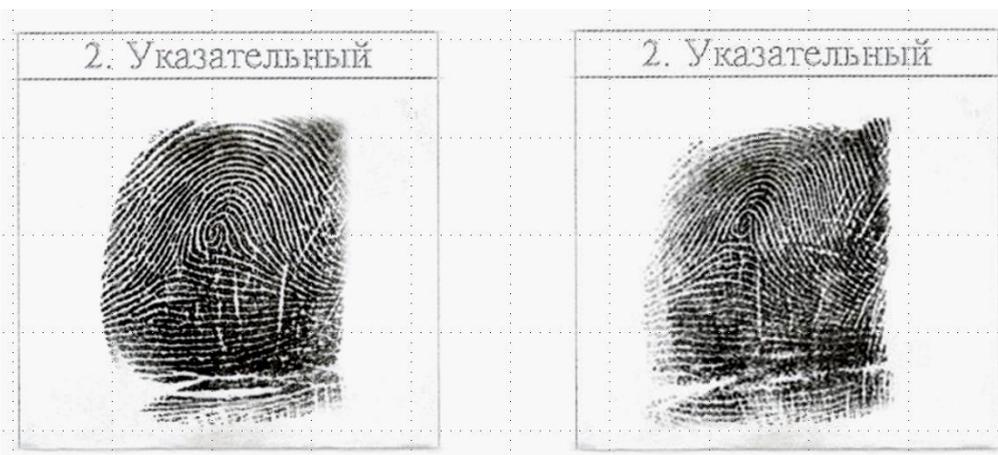
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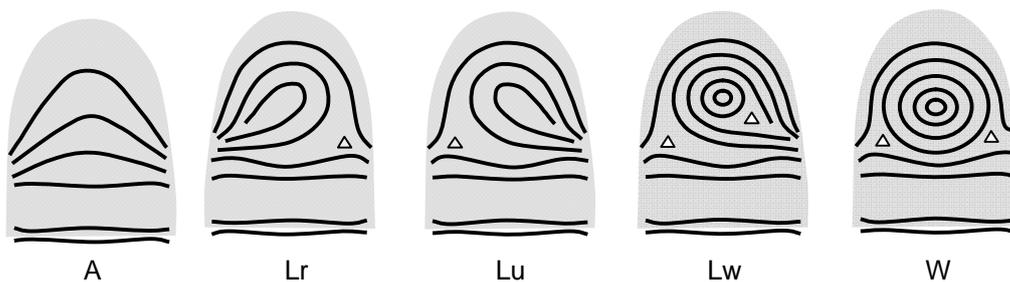
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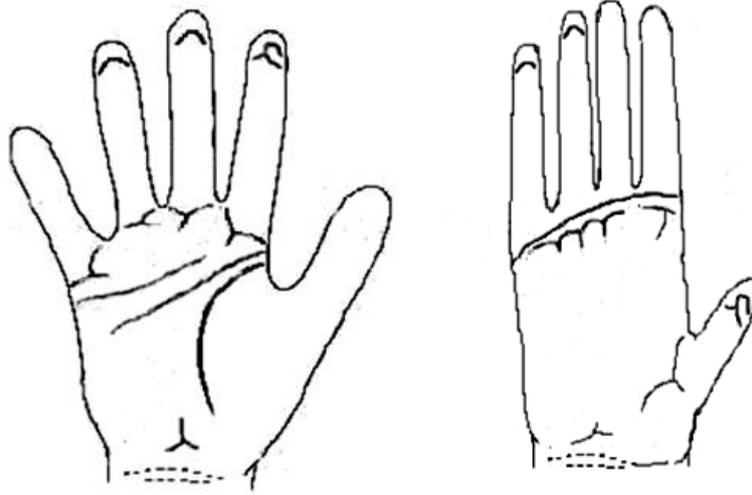
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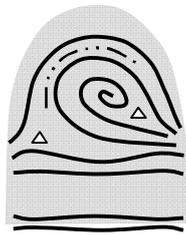
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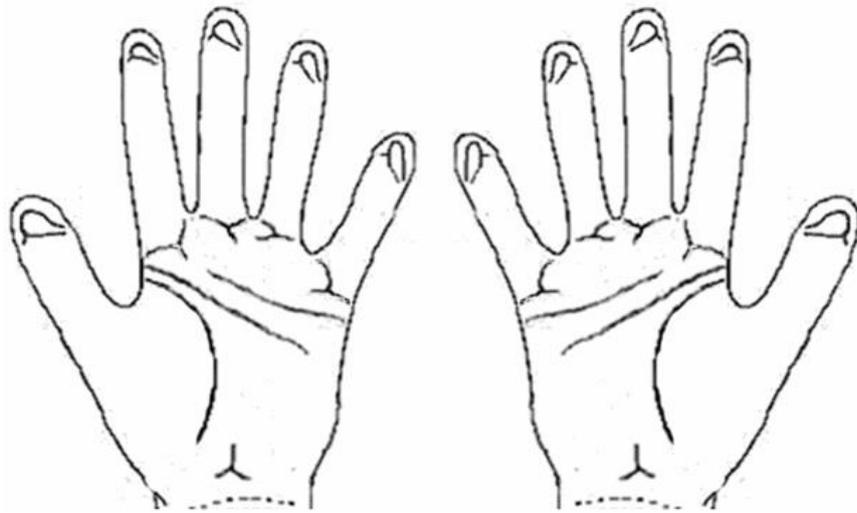
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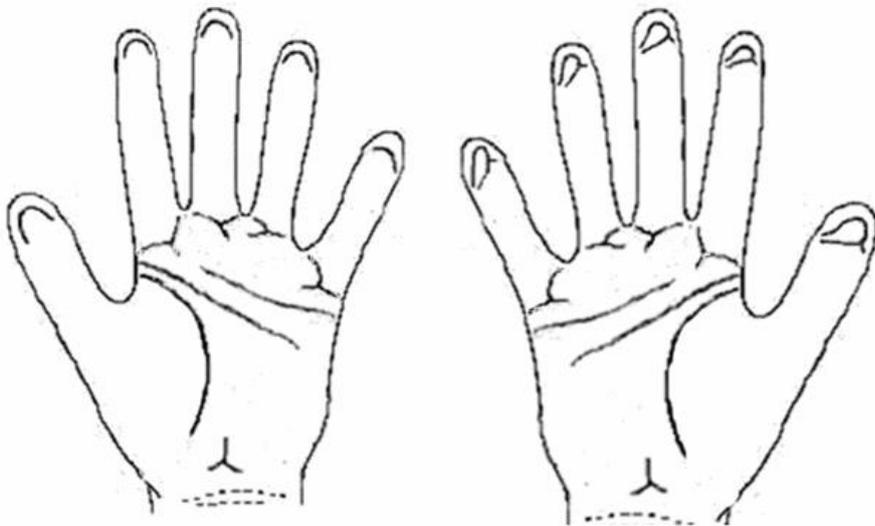
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SOME OF THE PROVISIONS OF THE METHODOLOGY OF CLASSIFICATION OF PARTS AND ASSEMBLY UNITS OF FIREARMS BASIC PARTS

Modern practical needs of the struggle against crimes in sphere of illegal circulation of weapons and its basic parts, an obvious need and a real opportunity for more effective use of the modern achievements of science, dictate the necessity of improvement of methodical bases of forensic ballistic examination. For correct qualification of unlawful acts in the sphere of circulation of weapon and its basic parts, required classification of the investigated object as the basic parts of firearms and to determine its suitability for use for the intended purpose.

At present the research methodology that establishes clear principles for resolving such expert problems do not exist. The article proposes criteria and a general algorithm for solving these problems. In particular, in accordance with the principles of the model of expert methodology determined the range of objects, the essence of the methodology, the list of subtasks, a set of features that characterize the object of examination. The attention is focused on specific aspects of expert studies and experiments, the basis for the formulation of the different options conclusions.

Key words: barrel, bolt, cylinder, frame, receiver, detail, assembly unit, firearm, basic part of a firearm.

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Судебная экспертиза № 2.101-2016/ЭЭ от 12.04.2016 г.

Исследован предмет: 1 шт. металлическая емкость (баночка) из алюминия, содержащая порошок серого цвета.

Результаты исследования: в баночке содержится порошок серого цвета, который по своим свойствам соответствует порошку из алюминия.

Вывод: порошок серого цвета, содержащийся в баночке, является порошком из алюминия.

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EXAMINATION PECULIARITIES OF EDGE AND MISSILE WEAPONS

The article deals with the current issues of edge and missile weapons examination. Books on professional specialized subjects and examination practice demonstrate the unsolved issues in this sphere. The cause of it can be found in the judgmental and contradictory nature of this examination. Experts raise a lot of questions which remain unanswered in the existent procedure.



The article is based upon the results of the professional literature reviews and forensic experts reports taken from the forensic units of the territorial bodies of the Internal Affairs Ministry as well as from forensic experts improving their skills during the refresher training.

Special attention is given to the following issues: the questions of measurement of the blade firmness and analysis of the mistakes occurred in the experts reports.

Key words: edged weapon, missile weapon, research object, blade knife, percussion section, methodology of the examination.

Судебная экспертиза является одним из основных элементов уголовного процесса. Она призвана установить истинные обстоятельства дела, выявить виновных лиц и определить степень их ответственности. В настоящее время судебная экспертиза играет越来越重要的角色. Это связано с тем, что количество преступлений, совершаемых с использованием оружия и боеприпасов, продолжает расти. В связи с этим возрастает роль судебной экспертизы в установлении фактов, имеющих значение для уголовного процесса. Одним из основных направлений деятельности судебной экспертизы является исследование оружия и боеприпасов. В настоящее время в судебной экспертизе применяются различные методы и средства исследования. Одним из таких методов является измерение твердости лезвия. Это позволяет определить, насколько прочно изготовлено оружие, и выявить возможные дефекты. Однако в настоящее время существуют проблемы, связанные с измерением твердости лезвия. В частности, часто встречаются ошибки в измерениях, что может привести к неверным выводам. В связи с этим необходимо уделять особое внимание вопросам измерения твердости лезвия и анализа ошибок, возникающих в экспертных отчетах. В настоящее время в судебной экспертизе применяются различные методы и средства исследования. Одним из таких методов является измерение твердости лезвия. Это позволяет определить, насколько прочно изготовлено оружие, и выявить возможные дефекты. Однако в настоящее время существуют проблемы, связанные с измерением твердости лезвия. В частности, часто встречаются ошибки в измерениях, что может привести к неверным выводам. В связи с этим необходимо уделять особое внимание вопросам измерения твердости лезвия и анализа ошибок, возникающих в экспертных отчетах.

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**TOPICAL PROBLEMS OF THE DEVELOPMENT
OF THE MODERN TECHNICAL MEANS
FOR THE CRIMINALISTIC RESEARCH OF THE SHOT TRACKS**

The problem of the technical equipment development intended for the criminalistics examination of the shot tracks is considered. On the basis of treating the hands-on criminalistics experience, there is drawn the conclusion about the necessity of designing the special technical equipment and software, which can work on a detection



and analysis of the shot tracks not only during realization of expert researches but also in a place of an incident.

Taking into account the researches on a choice of technical means and methods of a detection and an analysis of the shot tracks conducted by authors, the use of the color analyzer KPBM.1161.01 and an application program package for the image processing, developed by specialists of Technological Design Institute of Scientific Instrument Engineering of the Siberian Branch of the RAS, is offered. Tests of the color analyzer on identification of the shot tracks on the dark and multi-colored materials have shown the comparable results on quality received when using the known criminalistics methods, such as researching with a infrared spectrum and also a diffusion and contact method. The physical principles of the color analyzer operation, a user friendly design do it suitable not only for a usage in a laboratory, but also in the in-situ testing.

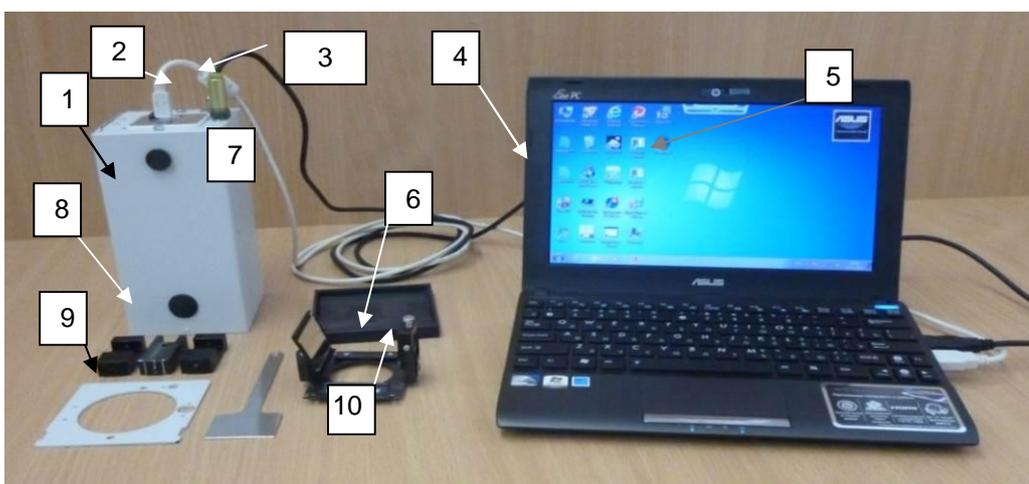
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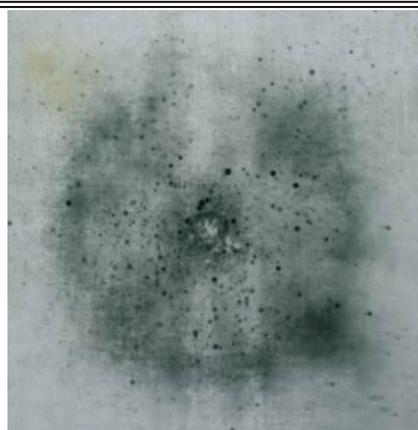
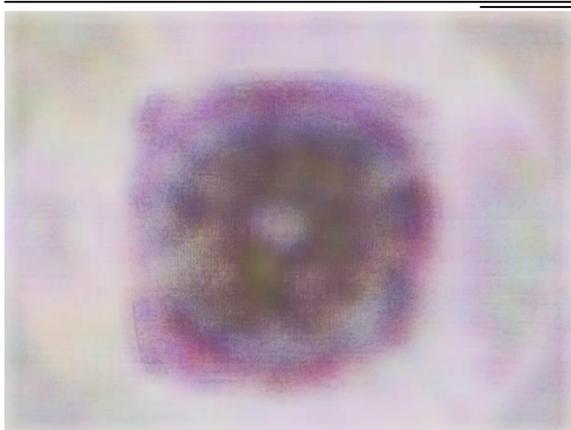
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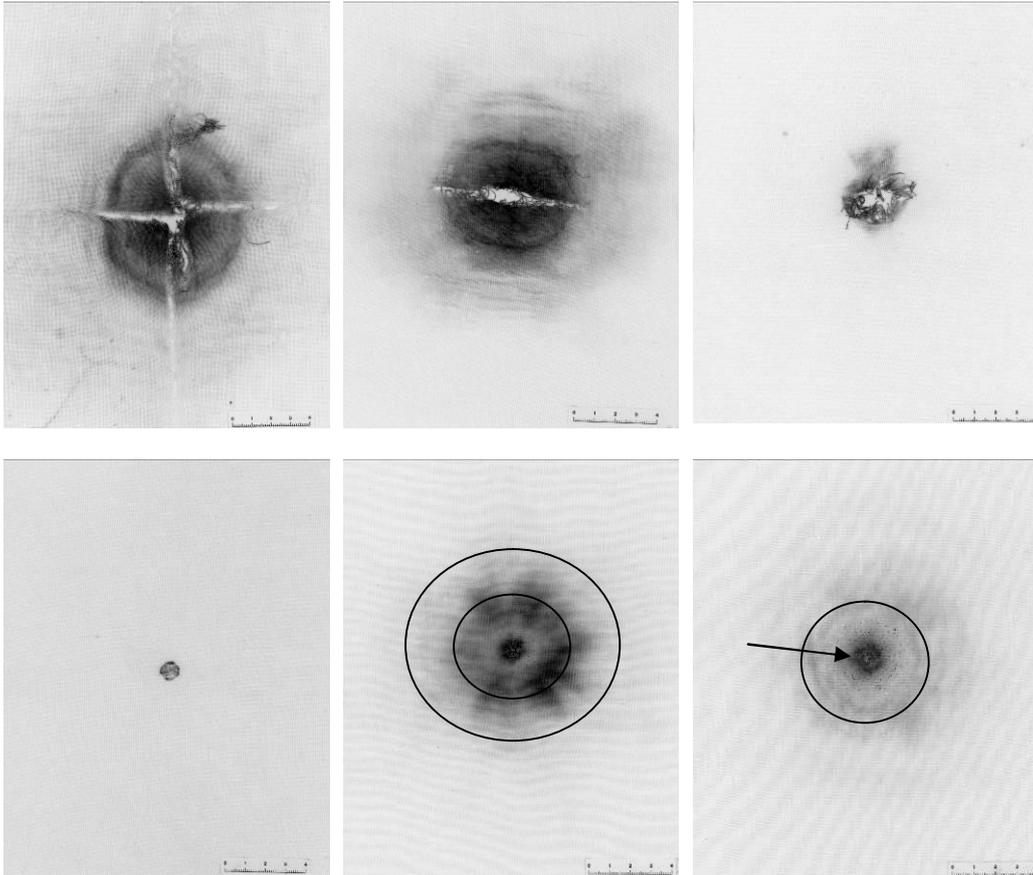
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**CRIMINALISTIC RESEARCH OF FUNCTIONAL MOVEMENT SKILLS
OF THE PERSON**

Plunder of money from ATMs became rather frequent crime. At the disposal of bodies of preliminary investigation videos on which the face of the criminal is covered by the masking objects arrive. The only thing the image, suitable for a research,



is the image of a hand at the time of a set of an individual digital code. The solution of a problem of identification of the person requires a criminalistic research of set of individual anatomic and functional and motive signs of the person.

In work an attempt of justification of the criminalistic importance of set of the functional movement skills of the person revealed during the research of the videos from television cameras of systems of observation and also checked experimentally is made. By results of the conducted researches differentiation of significant signs is carried out and the elements demanding additional studying are allocated.

The criminalistic research is offered to be conducted within criminalistic examination of dynamic signs of the person. Functional features bear enough information both for diagnostics, and for identification of the person. As objects of a research it is expedient to use video records which contain dynamic and anatomic signs. Such approach will allow to add a complex of dynamic signs anatomic for increase in set of the signs taken as a basis at formulation of conclusions.

In work the prospects of a further research of functional movement skills of the person with use of the automated information systems are defined.

Key words: anatomic signs, functional movement skills of the person, set of signs, formalization, the automated systems, access control systems.

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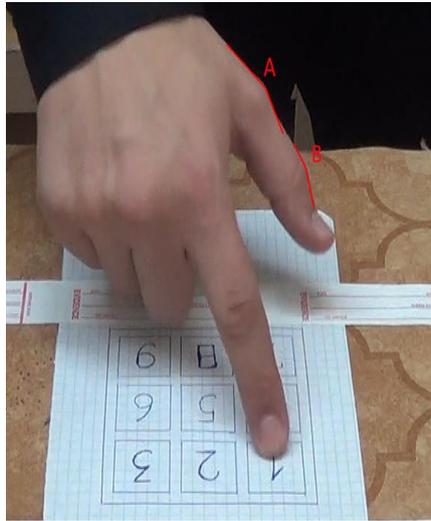
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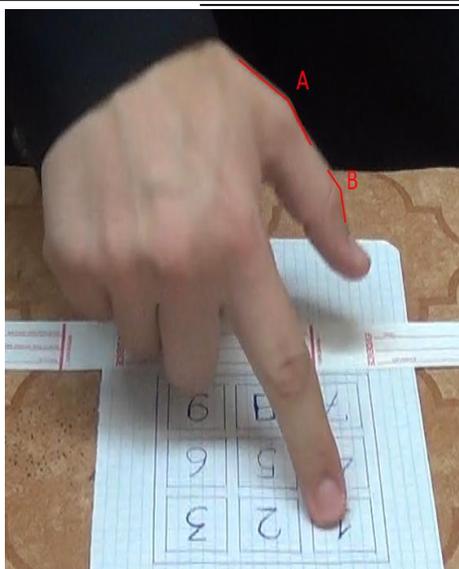


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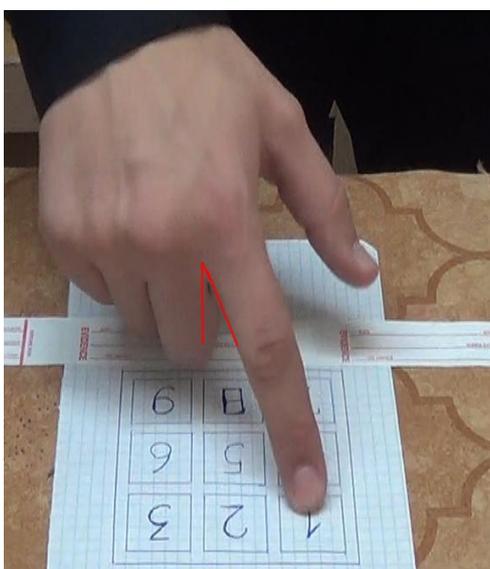


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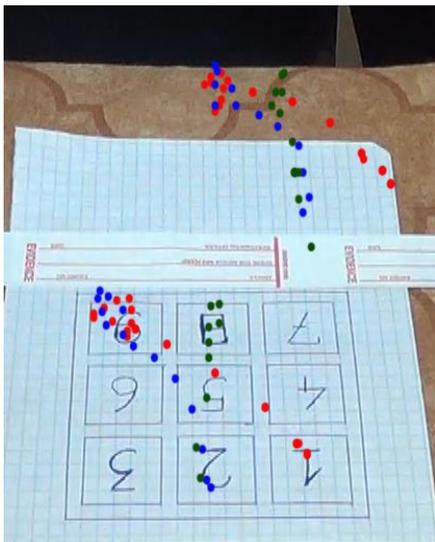
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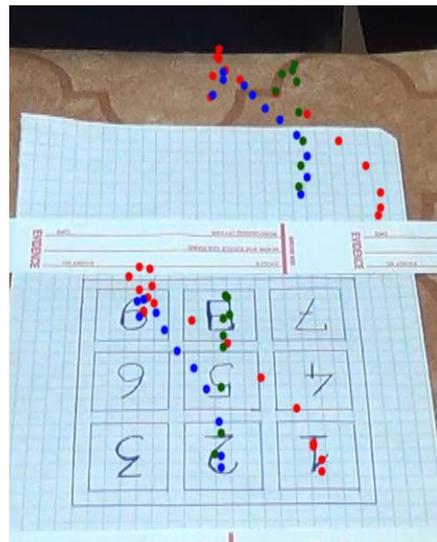
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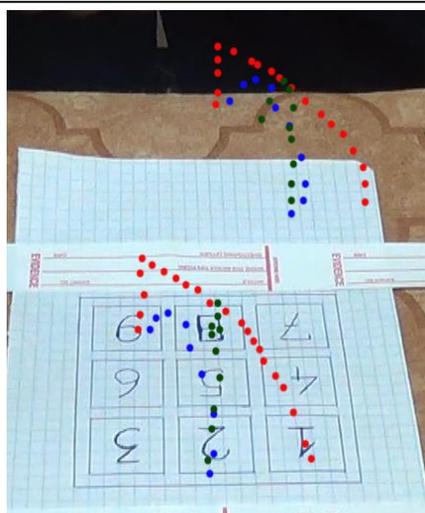
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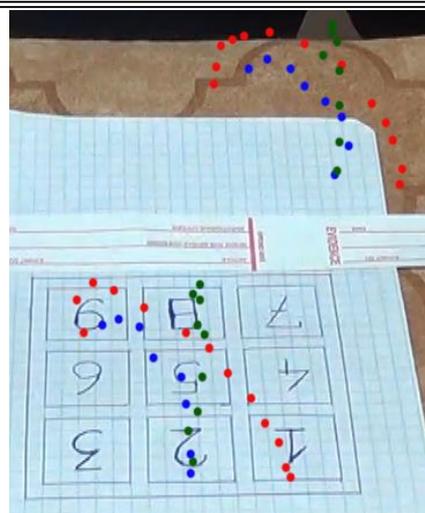
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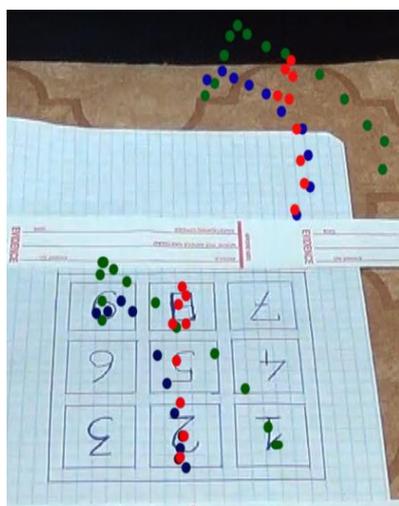


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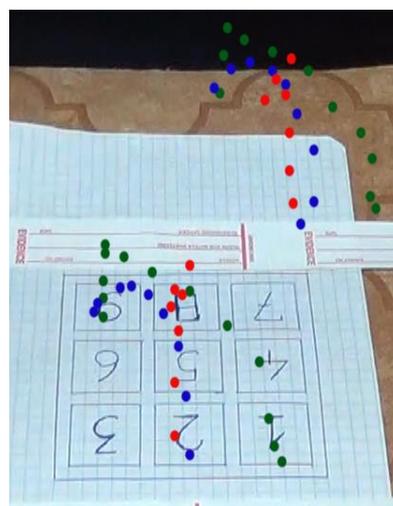
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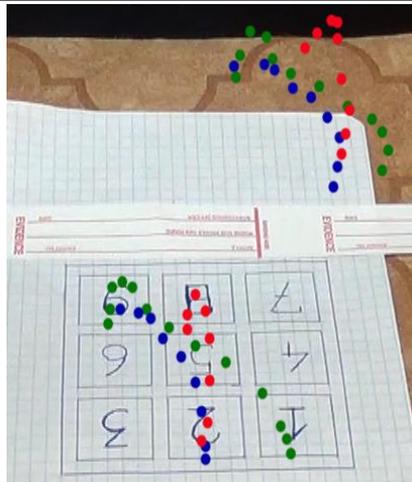
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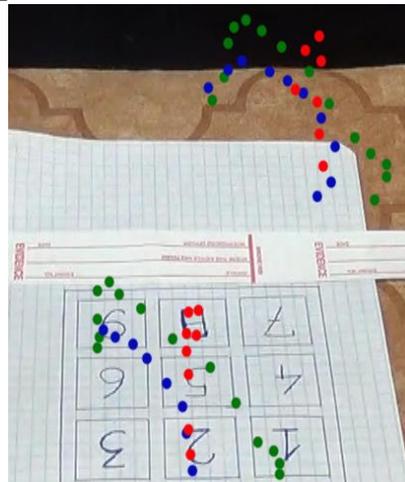


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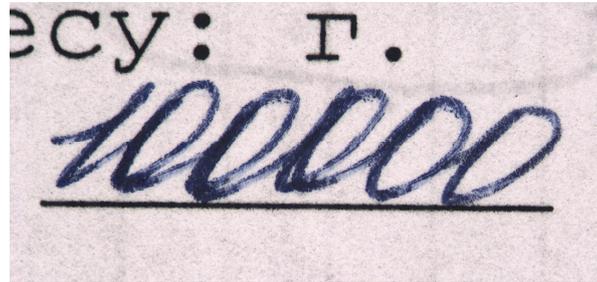
DISCRIMINATION ANALYSIS OF PIGMENTS IN THE TECHNICAL CRIMINALISTICS EXAMINATION OF DOCUMENTS

Problems associated with criminalistics examining the details of document by a digital image colorimetry are discussed. Possibilities for a differentiation with the traditional criminalistics research methods of homogeneous dyes, touched on the essential elements of a document that are similar in color tone, brightness and saturation are analyzed. It is concluded that the possibility for establishing the factual data of the committed criminal acts with the use of traditional methods of the technical-criminalistics examination of documents is severely limited.

Therefore, authors recommend differentiating the dyes on the basis of values of the color characteristics with the use of the portable mobile color analyzer and a specialized program. The developed program allows calculating the difference of the dominant wavelength, the color saturation and the standard deviation of color values of the compared strokes. Simplicity, clarity, objectivity and reliability of the received results allow to recommend its use in the framework of the technical-criminalistics examination of documents in determining whether to change the original content of a paper, the study of security printing products.

Key words: digital image processing, essential elements of a document, differentiation of strokes, dominant wavelength, color saturation, color coordinates.

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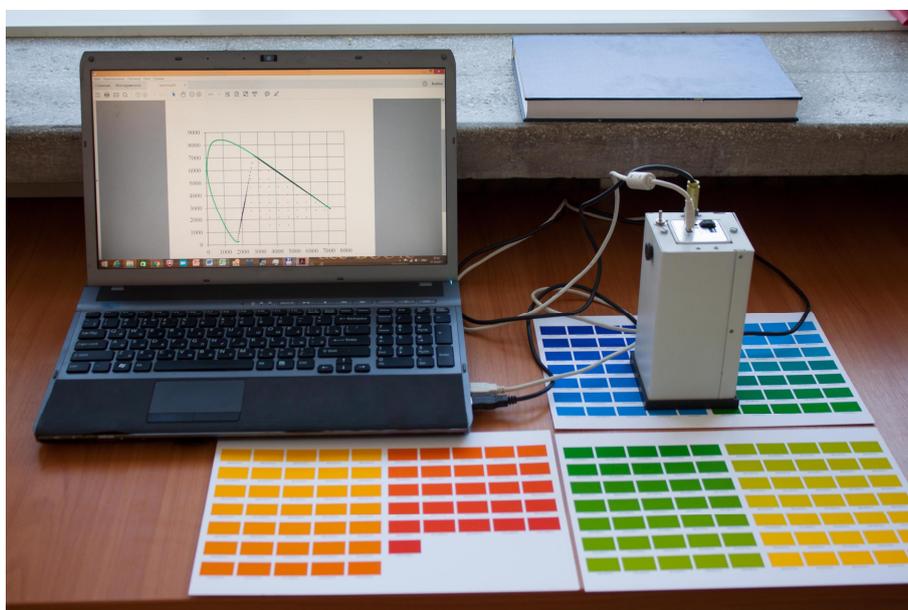
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ments of environment context and technique facilities as well as examine the problems of reconstruction of «the whole» out of «the parts». Without solving the mentioned problems it is impossible to reconstruct incendiary device out of its fragments seized from the explosion scene.

The authors of the article prove that by applying physical methods, namely metallographic analysis, it is possible to solve the expert problem on establishing «the whole» out of «the parts» even if there is no division line. If there is no possibility to establish the origin of the fragments of the given incendiary device found on the crime scene by using traditional methods of trace evidence analysis, it is necessary to examine the composition of the fragment as well as its microstructure including the level of deformation of the ferrite metal grains of the fragment.

Based on the experimental examinations of self-made incendiary devices the authors of the article prove that by applying method to measure micro-solid structure of the examined metal devices it is possible not only to differ the fragments from the «second» ones, but to place incendiary substance used in the self-made incendiary device to the given group (for example, ammonite incendiary substance or trotyle incendiary substance, etc.). The given results are of great significance when it is impossible to solve the problem by applying chromatographic methods.

Complex forensic examination of metal fragments of incendiary devices by applying metallographic methods, measuring micro-solid structure of fragments and x-ray analysis gives the opportunity to get essential information useful for detection. The mentioned examination can contribute to the interior body's activity to solve and investigate crimes related to incendiary device usage namely self-made ones.

Key words: complex forensic examination, self-made incendiary device, fragments of incendiary devices, metallographic analysis, micro-solid structure, x-ray analysis, solving and investigating crimes.

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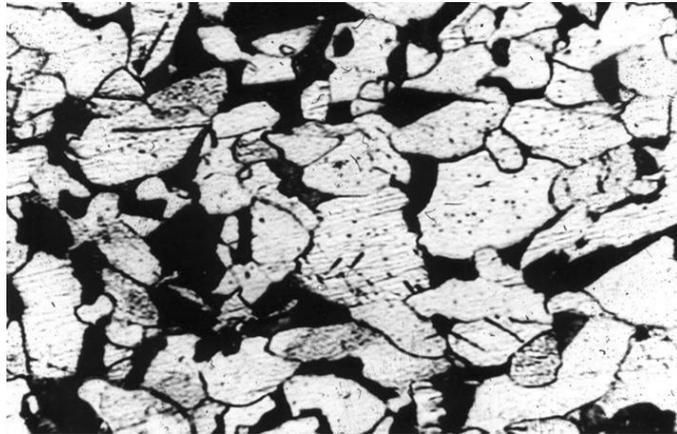
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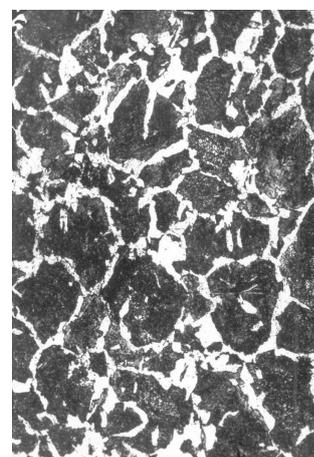
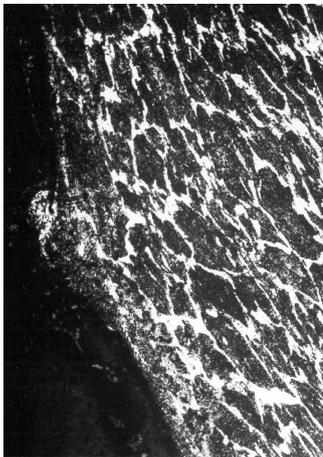
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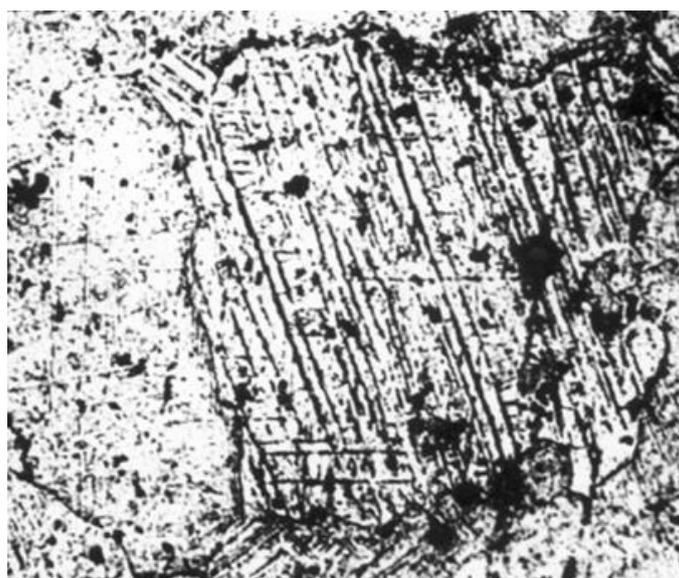


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**THE BRIEF ANALYSIS OF EDUCATIONAL PROGRAMS
ON TRAINING PERSONNEL FOR EXPERT-CRIMINALISTIC SUBDIVISIONS
OF TERRITORIAL BODIES OF THE MINISTRY OF INTERIOR OF RUSSIA**

The article focuses on the main problems of professional training of officers for expert-criminalistic subdivisions of the Ministry of Interior of Russia. On the basis of the analysis of educational programs implemented in educational organizations



of the Ministry of Interior of Russia the author comes to conclusion that training forensic experts as part of advanced training on additional educational programs doesn't ensure their professional competence in full measure. In the author's opinion, the existing gaps in professional training lead to expert errors made by experts while conducting forensic examinations on criminal cases.

In order to overcome these problems the author offers the system of organizational measures aimed at studying legal, theoretical, scientific, methodological, and organizational provisions of state forensic activity by expert-criminalistic subdivisions's personnel without specialized education. The author considers it necessary to revise the order and sequence of training on additional professional education programs as well as to work out a special approach to the selection of pedagogical personnel specializing in forensic examination.

Key words: professional competence, forensic expert, educational programs, expert errors, expert's report.

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**PECULIARITIES OF TEACHING GRAPHOLOGY AND HANDWRITING
EXAMINATION IN THE FRAMEWORK OF PROFESSIONAL DEVELOPMENT**

The article is devoted to organization of training of graphologists within the system of retraining and advanced training of employees of the Internal Affairs Authorities of Russia. Problematic issues that complicate the acquisition of Graphology and Handwriting Examination Discipline for the students who had come to study at the Faculty of advanced professional training are considered separately. Three key positions are identified, which, according to the authors, need optimization.

The problem of teaching expert disciplines to students who do not have basic education and expert knowledge of the foundations of forensic examination theory is highlighted. Attention is given to the classroom time devoted to study of topics.



A consistent flow of expert disciplines that will contribute to formation of skills required for professional expert activity is offered.

Key words: students, further and advanced professional training, handwriting examination, graphologist, independent expertise right, quality of specialist training.

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**TO THE QUESTION ABOUT ADDITIONAL
PROFESSIONAL EDUCATION OF SPECIALISTS TRAINING
IN THE FIELD OF FORENSIC PORTRAIT EXPERTISE**

The article is devoted to questions of the effectiveness of additional professional education for training specialists in the field of portraiture examination on the example of the Moscow University of the MIA of Russia for them. V. Y. Kikot. The article reveals the analysis of the category of trainees undergoing retraining and qualification improvement training program «Judicial examination of the portrait» at the Moscow University of the MIA of Russia for them. V. Y. Kikot. Discusses the difficulties faced by the trainees under training and identified, listed and analyzed the causes adversely affecting the effectiveness of their training. They discussed topical issues of improving the effectiveness of additional professional education of employees, providing forensic support for the disclosure and investigation of crimes.

The indicated requirements for the level of training required for the development of the program «portrait Judicial examination» for applicants for training. That will allow you to effectively explore new technological means used in the production expertise and research, to master the techniques of making a certain kind of expertise, and generally improve the level of professional retraining of such employees EKP. The authors propose a number of measures to improve the effectiveness of additional professional training in specialization «Forensic».

Key words: the retraining and enhancement of qualifications, judicial examination of the portrait, additional professional program, improving the effectiveness of additional professional education.

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**PROBLEMS OF IMPLEMENTATION OF TRASOLOGICAL
EXAMINATIONS OF COINS OF THE RUSSIAN EMPIRE
(ON THE EXAMPLE OF THE COIN RESEARCH «RUBLE OF 1841»)**

Copies of ancient coins rather often are implemented by criminals in places of a mass congestion of people, representing them as originals. The specified roguish actions are investigated by law-enforcement bodies, with obligatory purpose of trasological examinations.

In article topical issues of a trasological research of the ancient coins having high numismatical value are considered. Distinctions of copies of coins from original are very insignificant. Key criteria of reference of a disputable coin to the copy, are: coin weight (the copy is much easier/is heavier than the original); workmanship and general (detailed) condition of an obverse, reverse, herd (difference in the image of separate elements of the copy and original of a coin).

It is expedient to consider carrying out an expert research of a doubtful coin as complex process of studying of all her characteristics and parameters and also definitions of a way of production. In this regard, in the text of the conclusion the following positions have to be stated: the short description of the coin presented on a research (the face value, date of stamping, designation of mint, signs of the engraver and a mintsmeyster, in case of need - the instruction on coin belonging to number trial or to coins of any special release); the list of normative documents which regulated standard values of diameter and mass of the studied coin (or the list of average values of these sizes); localization of specific features of the studied coin and the coins samples caused by production defects and (or) mechanical damages; results of comparative comparison of features of elements of the studied coin and coin sample, on condition of similar date of stamping, mint (compliance of elements of an obverse, reverse, coin herd and also existence or lack of the revealed anomalies).

On the basis of the revealed set of signs the expert formulates a conclusion or in favor of originality of the studied coin (a categorical positive conclusion), or in favor of her copy (a categorical negative conclusion). However if as a result of a research only one strong indication of the copy is revealed, it is extremely desirable that formulation



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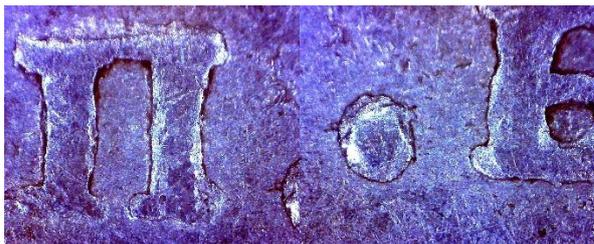
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**METHOD OF COPYING INTO ADSORBENT WETTED
WITH SOLVENTS WHEN STUDYING INTERSECTING ENTRIES
OF DOCUMENTS } CHALLENGES AND QUESTIONS**

The Article covers examination of crossing strokes in documents to determine the sequence they have been made that is one of the most challenging area in forensic and examining practices. The author reviews different opinions about techniques and methods applied, expresses his own point of view on classification of different methods of examining, rests his arguments to classify wet copying as non-destructive methods of documents examining.

The Article refers to the results of the author's experimental analysis obviously showing application of method of copying into adsorbent wetted with solvents in order to determine the sequence of intersecting entries written under different conditions. Please consider that creation of natural collections of written materials is of vital importance for the method in question. The Article summarize recommendations to pictures supporting Experts Opinions with view to improve their visualization and evidential value. Furthermore, the author expresses his opinion in use of 3D microscopes in study of intersecting strokes by experts, invites scientific and expert communities to scholarly disputes on challenges of applying different methods of documents examining.

Key words: method, copying, adsorbent, crossing strokes, experimental crossings, natural collections.

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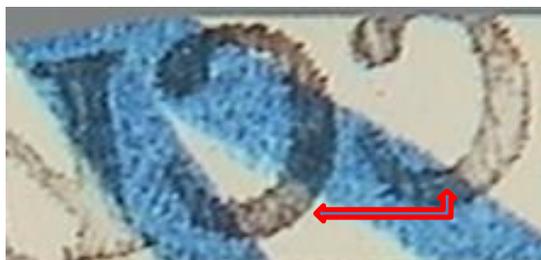


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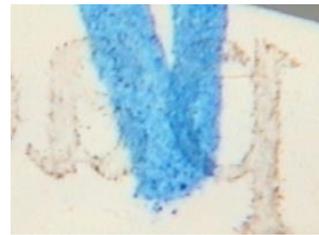
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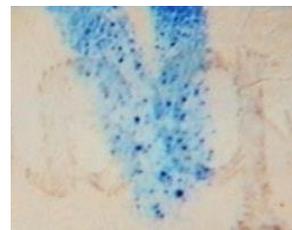


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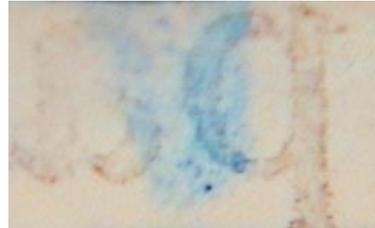
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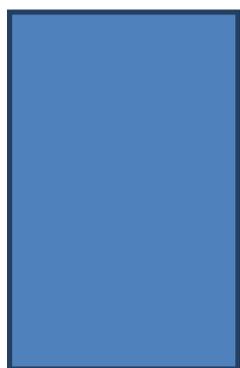
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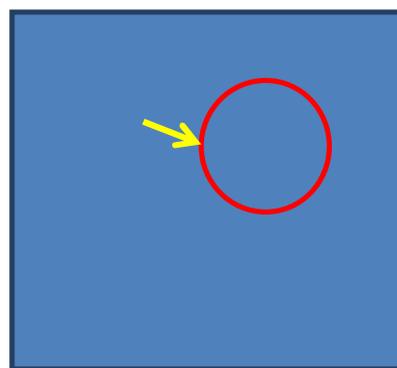
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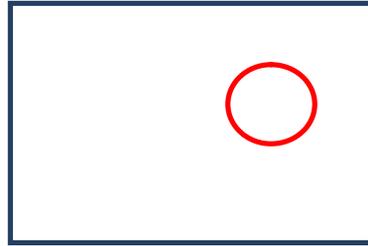


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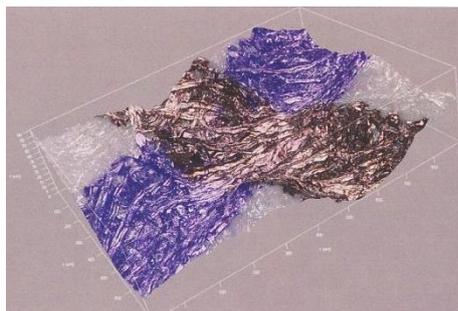
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ООО «КОНСТРУКТОРСКОЕ БЮРО СПЕЦИАЛЬНОГО ПРИБОРОСТРОЕНИЯ»

ПРИБОРЫ КОНТРОЛЯ ЗАЩИЩЕННОЙ ПОЛИГРАФИЧЕСКОЙ ПРОДУКЦИИ
Высокотехнологичные разработки для идентификации современных защитных признаков банкнот, федеральных специальных и акцизных марок, документов и ценных бумаг



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Оперативный контроль банкнот и акцизных марок



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Визуализация оригинальных вспышечных люминофоров

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Источники монохроматического света для работы на месте происшествия, приборы для проведения технико-криминалистических исследований и экспертиз



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Определение проб ювелирных сплавов, идентификация драгоценных металлов

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Высокоскоростной технологический стенд для испытаний датчиков и защитных признаков

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