

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE--PREPARATION AND STUDY OF AROMATIC OILS , RUBBER, SOFTENERS FROM

VOLGOGRAD PETROLEUMS -U-

AUTHOR-(05)-ZMIYEVSKIY, P.K., SALNIKOV, D.P. KATS, KH.SH., FRENKEL,

R.SH., KURYANOVA, I.S.

COUNTRY OF INFO--USSR

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DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS--AROMATIC HYDROCARBON, PHENOL, SOLVENT EXTRACTION, THERMAL STABILITY, PETROLEUM PRODUCT, ELASTICITY, RUBBER CHEMICAL

CONTROL MARKING--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PACKY REEL/FRAME--1996/1525

STEP NO-+UR/G-18/70/000/002/0009/0010

CIRC ACCESSION NO--AF 2118512

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PROCESSING DATE--300CT70

CIRC ACCESSION NO--APO1185!2

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A PHENOLIC EXT. FROM ZHIRNOVSK AND KOROBKOVSK PETROLEUM DEASPHALTATE MAS AGAIN EXTD. WITH 2.5 PARTS BY VOL. PHOH AND 10PERCENT H SUB2 0, GIVING A HIGHLY ARCMATIC EXT. AND A NAPHTHENIC ARCMATIC DISTILLATE. THE 2 PRODUCTS WERE GOOD SOFTENERS FOR RUBBER, YIELDING VULCANIZATES WITH ELASTICITY AND THERMAL STABILITY HIGHER THAN THOSE OBTAINED WITH THE USUAL ONES.

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UDC 619:616.981.42+616,981.51.03447:636.32/.38

USSR

GRYAZIN, V. I., Professor, SALINIKOV. E. Ye. (Deceased). PANKRATOV, L. D., TYCHINA, O. F., Candidates of Veterinary Sciences, and ZHILA, M. Ye., Junior Scientific Associate Kazakh Scientific Research Veterinary Institute

"Study of a Combined Vaccine Against Brucellosis and Anthrax in Sheep"

Moscow, Veterinariya, No 7, 1970, pp 38-40

Abstract: A combined dry vaccine against brucellosis and anthrax was prepared from standard strains No. 19 and STI-1 of Brucella and B. anthracis, respectively. Guinea pigs and sheep were immunized with vaccine containing the two antigens in a ratio corresponding to that which would be used in separate administration of monovaccines against the two diseases. Intensive immunity to infection with virulent strains of Br. melitensis and B. anthracis developed, indicating an absence of mutual interference between the two antigens. Administration of the combined vaccine to sheep produced immunity to anthrex that lasted for more than 2 years and immunity to brucellosis for up to 17 months.

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- END -

CIA-RDP86-00513R002202810001-5" APPROVED FOR RELEASE: 09/01/2001

USSR UDC: 621.438.253.5:531.781.2

Zenukov, A. G., Salinikov G.M., Davletbayev, A. M.

"Peculiarities of the Thermal and Stressed State of Cooled Envelope-type Blades"

Kazan', Izvestiya Vysshikh Uchebynkh Zavedeniy, Aviatsionnaya Tekhnika, No 1, 1972, pp 72-77.

Abstract: This work studies the influence of the primary dimensions on the temperature state of elements of a turbine blade with a large number of channels for cooling, located near the gas surface. The influence of shell thickness and rib width on the temperature state of elements of the blade is studied and the variations in strength reserve of the ribs are analyzed. Recommendations are given for sclection of shell thickness and rib width in the design of envelope-type blades.

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Computers: Equipment

USSR

UDC: 681.32.001

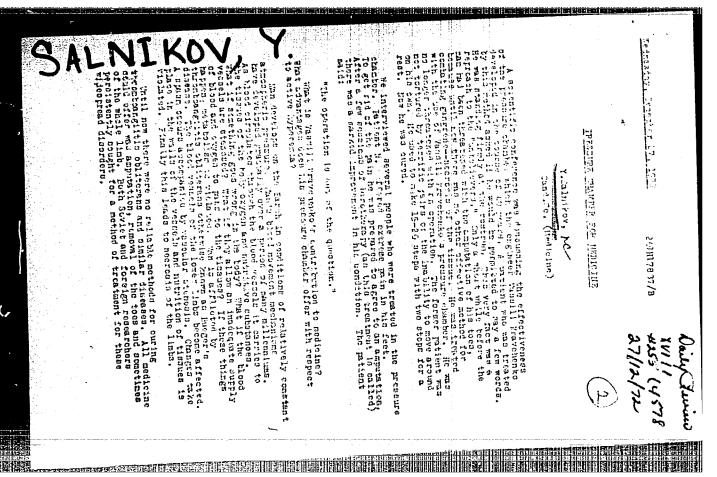
SAL'NIKOV K. S.

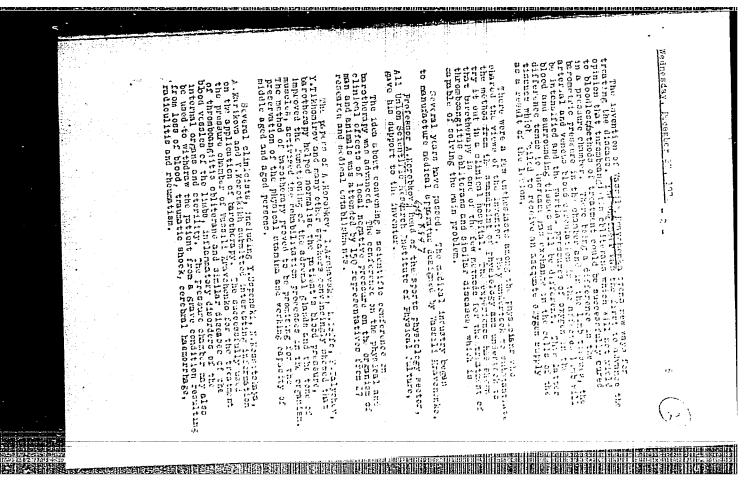
"Some Highly Productive Operations in the Technological Process of Manufacture of Ferrites for Electronic Computers"

Sovershenstv. Tekhnol. Protsessov i Instrumentov v Mashinostroyenii (Improvement of Technological Processes and Tools in Machine Building -- Collection of Works], Kuybyshev, Kuybyshev Press, 1970, pp 18-21 (Translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel naya Tekhnika, No 10, 1970, Abstract No 10879, by T. R.)

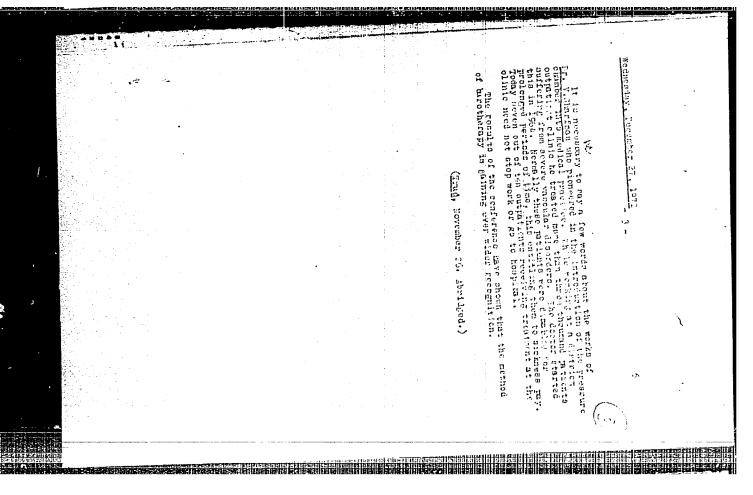
Translation: The manufacture of small ferrite rings is discussed; the technology of manufacture of ferrites from solutions of salts using the method of spray drying and pressing in rotary presses is described. One illustration.

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SAL NIKOV, Ye., Physician and Physiotherapist, Candidate of Medical Sciences

"The Therapeutic Aspects of Cold"

Moscow, Trud, 30 Dec 70, p 4

Abstract: The therapeutic and prophylactic aspects of the hardening of the organism and its adaptation to cold are discussed. The beneficial effects of cold on the organism are manifold. Under the influence of cold, cardiac contractions are slowed down, the heart beat is strengthened, respiration and muscular tonus are improved, and the resistance of the organism to colds, influenza, catarrh, and disorders of the upper respiratory organs is increased. Even such a disease as rheumatic fever may be prevented throughadaptation of the organism to cold.

Skiing, ice skating, long hikes, walking, and gymnastics in the open air are some of the best methods of hardening the organism. Rubdowns with wet towels at room temperature and cold showers and baths are the best means of conditioning the organism to cold. The highest form of adaptation of the organism to cold is winter swimming in ice water. However, moderation and 1/2

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सारकारक एसकारेस क्रिया कर जा प्रावेशका करो एसकाराक्षित कर्ता । विशेष कर होते हैं को विशेष कर कार कर कार कर बात सम्ब

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SAL'NIKOV, Ye., Trud, 30 Dec 70, p 4

and gradualism are recommended in the hardening of the organism and adaptation to cold, and neither should be undertaken without the advice and supervision of a physician.

A 2-day scientific methodological conference organized by the Voluntary Sports Association of the All-Union Council of Trade Unions and the All-Union Commission for Hardening and Winter Swimming was recently held in Moscow. More than 200 people attended, representing branches of the Association in Moscow, Leningrad, Minsk, Kiev, Kharkov, and other cities. The conference was concluded with a winter ewim by the participants, who are known as "walruses," in a nearby lake.

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SALINIKOVA

School children make up more than annu-lifth of the entire perulation of army. In 1970, 1273, 909 young perula received their according riduction in the Toylet Union. This means that over work have begun to work. Its degree of freedom of future choice of a prefeasion and connequently determined them of employment and supply of necessary specialists to the national excuey depends on the health of school children. But even at the present rice, the physical condition determines to once extent the effectiveness of leavising, i.e. achievament is cholosified. It is a known fact that bildren, the hardy been alice are power achieves than healthy children. This is presented to the behaldren the ware not sick during the war had good and excellent marks in first grade and TLA percent had such marks it clied spade, whereas areas those who did see alick any 64.4 percent had such marks it clied spade, whereas areas these who did see alick any 64.4 percent of the entire war had good and excellent marks (LIN-Felperedkeys and 5.4). Petcent of those in third had good and excellent marks (LIN-Felperedkeys and 5.4). Beligoredkeys, 1999). A link between achievement and health is also observed abroad. In November 1970, at a congress of workers in selection made of force in monachievement. Analogous data were published in the CC3, Recastia, and Bulgaria.

quently, of groups of children, could be obtained only by taking into consideration the four following criteria that determine this status as an aggregate:

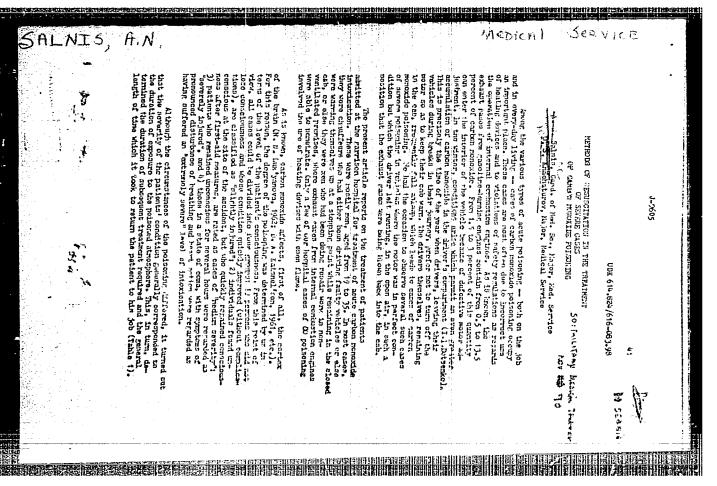
1) presence or absence of chronic disease:
2) level and degree of custiduation. If we add to this the well known theats that the health of adults in of achool thildren should be closely watched and studied for prompt planning and implementation of the nacessary health-improving measures.

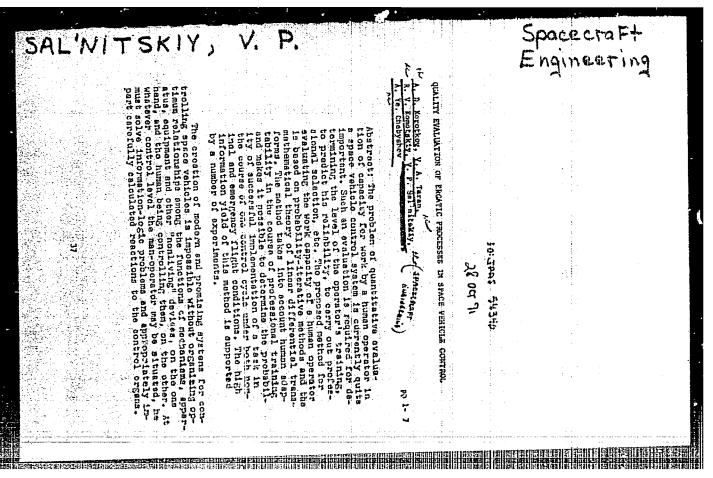
MEDICINE

THE HEALTH STATUS OF SCHOOL CHILDREN

[Article by S.M. Grombakh, G.P. Sal'nikova, Institute of Hystony et Children and Adolescents, USER Hisfatty of Health, and Institute of Paysfolagy of Children and Adolescents, USER Academy of Pedmonic Sciences, Mescew: Mascow, Vestinik Akademii Melitsinikikh Mauk SSSN, Russian, No 4, 1972, pp 29-35]

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"





USSR

UDC 615.322:382.675.4

SALO, L. P., RABINOVICH, I. M., All-Union Scientific Research Institute of Medicinal Plants, Moskovskaya Oblast

"On the Pharmacognostic Study of Stephania Glabra Roxb. Miers"

Moscow, Farmatsiya, Vol 19, No 2, Mar/Apr 70, PP 32-36

Abstract: The authors describe the anatomy of the part of the herb Stephania glabra which grows above ground. The plant is a source of gindarin, which has sedative and hypotensive properties. Photomicrographs are included in the article to illustrate the various micrographs are included in the article to illustrate the various structures which are described. The following specific diagnostic characteristics are mentioned. In the stem is a ring of reinforcing (mechanical) tissue made up of sclerenchymatous fibers, sometimes (mechanical) tissue made up of sclerenchymatous fibers, sometimes including groups of grit cells in the pith ray region. The conductive bundles are circular with spral vessels having large pores and with fibrous tracheids. Fine prismatic crystals of calcium oxalate are observed in the parenchymatous cells of the cortex and the central axial cylinder. In the leaf, there are pimples on the upper and lower epidermis, and a crystalliferous lining made up of long prismatic crystals of calcium oxalate can be seen along the fine veins of the leaf.

USSR

UDC:669.715.046.54/55

KOROTKOV, V. G., MOKSUNOV, A. M. and SALOKHIN, A. V.

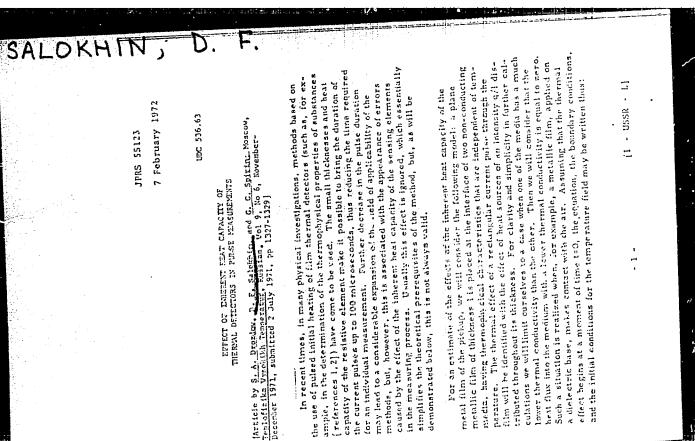
"Refining of Aluminum Alloys with Briquetted Salts"

Moscow, Tsvetnyye Metally, No 2, Feb 74, pp 59-61

Abstract: The use of briquetted salts for simultaneous refinement and modification of aluminum alloys increases the degree of their purification from oxide inclusions and hydrogen, causes the necessary refinement of the structure and reduces the time required for alloy-processing operations. A diagram is presented of a device for charging and dosing of briquettes. The device consists of a hopper with a vibrator, a belt transporter, a pulse-counting relay and a distributing and unloading trough.

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Soviet Inventions Illustrated, Section I Chemical, Derwent,

236019 TREATMENT OF NICKEL AND COPPER-XICKEL MATTES Where to simplify the process and to reduce iron content in the matte to 0.2-0.25, a layer of the latter (0.5m) is choled in an open mixer from 1150 to 900°C in 1 hour. The method is based on effinity of iron in the matte towards oxides moving to the surface of the matte and a metallic component separating in the form of solid solution crystals. According to the proposed method, ready matte is poured into a stationary open mixer lined with chamotte and held there for 1 hr. The thickness of the melt should be O.5m. The temp. of the matte is decreased from 1150 to 900°C when solid phases separate out. The oxide phase moves up on the surface of the melt and the metallic phase settles at the hottom of the mixer. After 1 hr, the matte is discharged from the mixer and cast in sand moulds or granulated in water. 21.4.67. as 1152034/22-1. V.A SOROV'EV et al. (12.6.69.) Bul.6/24.1.69. Class 40a. Int.Cl. C22b.

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AUTHORS: Vorob'yev, V. A.; Salomatin, I. Ye.; Firyago, I. S.; and Chermak, L. L.

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USSR

UDC:669.753

ROZLOVSKIY, A. A. and SALOMATOV. N. K.

"Pilot-Scale Testing of Electric Melting of Gold-Antimony Concentrates"

Moscow, Tsvetnyye Metally, No 2, Feb 74, pp 33-35

Abstract: The task of this work was a large-scale test of the primary element of a proposed technological system for precipitative electric melting of gold-antimony raw material with extraction of the antimony and concentration of the gold. The results of the tests show that gold-antimony concentrates can be treated by electric melting with good results. The material balance and metal balance are presented for precipitative melting of the gold-antimony concentrate.

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Heat, Combustion, Detonation

USSR

UDC: 536.2

SALOMATOV. V. V. and GORBUNOV, A. D.

"High-Temperature Heating of Construction Elements With Active Ablation Coatings"

Moscow, <u>Izvestiva AN SSSR--Energetika i transport</u>, No 1, 1972, pp 160-168

Abstract: This brief communication considers the problem of determining the optimal thickness of the ablation coating in a system involving a high-temperature gas medium, the active coating layer, and a metal wall, for protecting the metal from heat. Since the problem is essentially nonlinear, the authors use the method of the thermal quasi-stationary approximation, and obtain relationships for computing the temperature field in the protected structural element for an arbitrary thermal flux on the ablation surface. They analyze the dynamics of the ablation process and derive a solution for the Fourier number, the expression for which is quite complex but can be simplified for several limiting cases considered in this article. A nonogram is given for computing the ablation process of the active coating for various measured thermal fluxes.

UDC 536.2.01

USSR

SALOMATOY - Y----

"Temperature Conditions of Aircraft Structural Components Subjected to Aerodynamic Heating"

Kazan', Izvestiya VUZ, Aviatsionnaya Tekhnika, No 4, 1970, pp 22-30

Abstract: The purpose of this study is the development of an analytical method for the solution of the general problem of aerodynamic heating, and also the establishment of the temperature field characteristics, which may be useful in design engineering as a high speed method of computation of the temperature conditions of aircraft structures. A system of differential equations in ordinary coordinates describing the process of unsteady heat transfer is written and solved by the method of finite integral transformations. An analysis of the results shows the existence of a practically linear dependence of the temperature field on Oo: for the same values of the determining Biot, Stark, Kupichev, and Fourier criteria. Calculations of the temperature field using this method were carried out for 0 = 0.15 in the absence of sun radiation and at Bi(fo) = cont., O2(Fo)=1=const. The results 1/2

USSR

SALOMATOV, V. V., Izvestiya VUZ, Aviatsionnaya Tekhnika, No 4, 1970, pp 22-30

are presented in the form of 4 nomograms, which make it possible to determine the temperature on the surface, and in the adiabatic cross-section of a plane surface and in the corresponding corss-sections of a cylindrical component. Their comparison with standard data obtained on a computer shows that deviation in temperature does not exceed 25. An accelerated method of solution based on engineering nomograms is illustrated in an example involving the heating of a rectangular component. In the conclusion the author states that for bodies of classical shape under zero dynamic heating a certain relationship exists between the relative temperatures and the initial values, that this relationship forms the base of the nomogram construction, and that the method developed here for the solution of the nonlinear heat transfer problem in the presence of the zerodynamic heating is valid for bodies of finite dimensions and moderate heat capacity. 22 formulas, 5 figures, 6 references.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

PROCESSING DATE--020CT70 UNCLASSIFIED 1/2 0.30 TITLE--MEASUREMENT OF THE BRIGHTNESS TEMPERATURE OF THE EARTH'S MATMOSPHERIC EMISSION IN THE SUBMILLIMETER BAND FROM A HEIGHT OF 35 KM AUTHOR-(05)-LAPSHIN, V.I., SALOMONOVICH, A.E., SOLOMONOV, S.V., TROITSKIY, V.F., FRADKOV, A.B. COUNTRY OF INFO--USSR SUURCE--IZVYUZ, RADIOFIZIKA, VOL. 13, NO. 3, 1970, P. 388-394

DATE PUBLISHED ---- 70 $\mathcal{L}_{\mathcal{A}}(\mathcal{A}_{\mathcal{A}}) = \mathcal{L}_{\mathcal{A}}(\mathcal{A}_{\mathcal{A}})$

SUBJECT AREAS -- NAVIGATION, PHYSICS, ATMOSPHERIC SCIENCES

TOPIC TAGS-RADIOMETER, RADIO BRIGHTNESS TEMPERATURE, SUBMILLIMETER WAVE, RADIO EMISSION, ATMOSPHERIC RADIATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RELL/FRAME--1991/0846

STEP NU--UR/0141/70/013/003/0388/0394

GIRC ACCESSION NO--APOL10567

UNCLASSIFIED ---

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

PROCESSING DATE--020CT70 UNCLASSIFIED 2/2 030 CIRC ACCESSIUN NO--APOL10567 ABSTRACT. DESCRIPTION OF A RADIOMETER AND ABSTRACT/EXTRACT--(U) GP-0-THE RESULTS OF PRELIMINARY MEASUREMENTS OF THE BRIGHTNESS TEMPERATURE OF THE EARTH'S ATMOSPHERIC EMISSION, TAKEN AT A HEIGHT OF 35 KM AT WAVELENGTHS FROM 0.5 TO 2MM. THE SENSITIVE ELEMENTS OF THE RADIOMETER CONSISTED OF N-TYPE INSB PHOTORESISTORS COOLED TO LIQUID HELIUM ANGULAR DISTRIBUTIONS OF BRIGHTNESS TEMPERATURE WERE TEMPERATURE. OBTAINED IN THE VERTICAL PLANE. THE NATURE OF THE DISTRIBUTION AND THE RELATIVELY LOW BRIGHTNESS TEMPERATURE INDICATE THAT THE MAIN CONTRIBUTION TO THE SUBMILLIMETER RADIATION IS MADE BY THE RELATIVELY COLD UPPER LAYERS OF THE ATMOSPHERE. FACILITY: AKADEMIIA NAUK SSSR, FIZICHESKII INSTITUT, MOSCOW, USSR. UNCLASS IF IED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

Optical

USSK

UDC 621,391.19

NEZHEVETKO, YE. S., SALOV. G. I., TVERDOKHLEB, P. YE., UMANTSEV, G. D., Novo-

"Linear Adaptable Optical Pattern Classifier"

Novosibirsk, Avtometriya, No 3, 1971, pp 82-84

Abstract: One of the urgent problems of automating a scientific experiment is the problem of creating devices to classify optical patterns with respect to random variation of the parameters with incomplete a priori information. Usually the patterns subject to analysis are represented on photographic film or a photographic plate so that their transmission coefficient is a function of two variables s and t. Classification is realized by calculating the discriminate function (functional) of the pattern and using it to decide the classification of the pattern. The pattern x(s, t), $a \le s$, $t \le b$ is a realization of one of k classes of patterns $\xi_1(s, t)$, $i = 1, \ldots, k$. Then there are probabil-

ities of the occurrence of each of the ξ_i (s, t) (possibly unknown). The

linear functional of the pattern x(s, t) has the form

 $\begin{array}{l} b \ b \\ (x, h) = \int \int x(s, t)h(s, t)dsdt, \end{array}$

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USSR

NEZHEVENKO, YE. S., et al, Avtometriya, No 3, 1971, pp 82-84

and the problem consists in finding the weight function h(s,t) suitable for classification. It is demonstrated that by using relatively new material—photochrome material [K. M. Savost'yanova, Optiko-mekhanicheskava promyshlennost', No 5, 1968] it is possible comparatively easily to obtain h(s,t) experimentally using a recurrent procedure investigated previously [G. I. Salov, Avtometriya, No 6, 1970]. The linear functional in this case is an estimate of the mean square approximation to the ideal functional assuming a value of d=d, if x(s,t) belongs to $\xi_1(s,t)$. The initial data for realizing the mentioned recurrent procedure it the unknown sample $x_1(s,t)$, ..., $x_N(s,t)$ (N > k) from the set of patterns of the classes $\{\xi_1(s,t)\}$ insofar as possible indicative for the entire set and also the known series of values of d_1 , ..., d_1 and the ideal functional corresponding to this sample. The procedure for constructing $h(s,t) = h_N(s,t)$ was implemented in an optical version of the classifier the schematic of which is given. The adaptive process based on the photochrome material is described and some experimental results are presented.

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UDC 621.398.694.7-531.7

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GROKHOL'SKIY, A. L., SALOV, G. V., TIKHOMIROV, Yu. F., and YAKOVLEV, L. G. (Kiev)

"Measuring a Mass of a Substance by Natural Vibration Frequency of the Object"

Novosibirsk, Avtometriya No 3, May-Jun 72, pp 54-60

Abstract: This article is an extension of a earlier investigation by two of the authors on the use of a control object as a primary measuring converter for obtaining data on the value of a controlled parameter. It presents an analysis of experimental data on the method of measuring a mass of a substance by natural vibration frequency of a dynamic system formed by container-filler. Characteristics of the control object being simultaneously a sensitive element of a pickup with variable filler quantity are considered. The mechanical sensitive element is considered as an oscillator in the generating circuits and as resonator in selective circuits. The anti-interference characteristics of such a measuring system are evaluated. The experimental data presented confirms the possibility of obtaining the results of measurements in a wide range of temperatures with inaccuracy of the order of 1% or less, depending on the objects design characteristics.

USSR

IZOKH, V. V., SALOV, P. L., YEMEL'YANENKOV, V. I.

"Realization of the Operation $q' \equiv q \pmod{R}$ in Recirculating Generators"

Vestn. Belorus. Un-ta [Belorussian University Herald], 1972, Ser. 1, No 1, pp 78-80 (Translated from Referativnyy Zhurnal Kibernetika, No 6, 1973, Abstract No 6V605, by the authors).

Translation: A functional element is produced, performing the operation $q' \equiv q \pmod{k}$, the complexity of which is independent of k. An estimate of the speed is presented. The code of the number is represented by a time interval.

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Instruments and Equipment

USSR

SALOV, S., Senior engineer of the All-Union Scientific Research Institute of Medical Instrument Building

"Ocular Locator"

Moscow, Vechernyaya Moskva, 6 Jun 72, p 2

Translation: The All-Union Scientific Research Institute for Medical Instrument Building has developed an ultrasonic diagnostic apparatus, the "ECHO-21." Its operation is based on the principle of supersonic location — the sending of impulses into the eyeball and the interception of the signals deflected by the anatomical structure of the eye.

Echograms are used by opthalmologists to diagnose dangerous diseases such as retinal detachment, to delineate the location and extent of the intraocular pathological developments, to monitor the results of treatment, to pinpoint (at the time of operation) the positions of splinters which have pierced the eye. The use of the "ECHO-21" is especially valuable in cases when turbidity in the transparent part of the eyeball makes the detection of pathological problems in the eye difficult or impossible by other methods.

The medical industry has begun serial production of the "ECHO-21." 1/1

Instruments and Equipment

USSR

SALOV, S., Engineer

"Artificial Lungs"

Moscow, Sotsialisticheskaya Industriya, 27 Oct 70, p 2

Translation: Special machines — anti-infarct, anti-shocks, neurological instruments, and portable reanimators — enable medics to render immediate aid to a person who has had an accident. Staff members of the All Union Scientific Research Institute of Medical Instrument Building, together with the Institute of Automation and Telemechanics, Academy of Sciences USSR, have developed a new instrument for artificial ventilation of lungs — the RD-3. This instrument helps to reestablish respiration, supplies the lungs with oxygen-rich air, and eliminates excess carbon dioxide from the lungs. At the Central Exhibition of the Technological Creativity of Youth, dedicated to the 100th Anniversary of the birth of V. I. Lenin, this accomplishment was awarded the VDNKh Golden Medal.

In developing the RD-3, the designers of this instrument applied the principles of a new technological branch -- pneumonics -- based on the mutual interaction of currents of compressed air. This enabled them to eliminate movable 1/2

USSR

SALOV, S., Sotsialisticheskaya Industriya, 27 Oct 70, p 2

mechanical parts subject to friction and to build a portable, convenient, and reliable instrument of high functional quality.

The RD-3 will find wide application in first-aid work, at rescue stations, and under other emergency conditions which develop in patients with acute respiratory insufficiency resulting from severe trauma, disturbed cerebral circulation, or poisoning.

Furthermore, the instrument can be used to restore spontaneous respiration in patients who are in intensive care rooms after thoracic or abdominal surgery, as well as in other cases of respiratory insufficiency.

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USSR

SALOV S

"For Treatment With Electroaerosols"

Moscow, Meditsinskaya Gazeta, 25 Aug 72, p 3

Translation: The All-Union Scientific Research Institute of Medical Instrument Building has developed a portable apparatus "GEI-1." It is intended for inhalation treatment of burns of the respiratory tract, various diseases of the respiratory organs, and influenza. The GEI-1 can also be used in the treatment of burns on the surface of the body.

The apparatus has been tested in Moscow's clinics. It was established that it gives good therapeutic results and is efficient. By means of the GEI-1, using any source of compressed gas (oxygen), it is possible to obtain electrically charged aerosols of medications and to administer them to the respiratory organs. This ensures deep penetration of medicinal aerosols and their high efficiency.

Electronerosols can be produced and used both with a positive and a negative charge. Among the advantages of this apparatus is also the fact that its use 1/2

USSR

SALOV, S., Meditsinskaya Gazeta, 25 Aug 72, p 3

rules out the supercooling of the respiratory tract, it is convenient to operate, and is easily and quickly secured to a bed (chair, table). The GEI-1 will find wide application in surgical, reanimation, burn, and physiotherapy departments.

The Khar kov Tochmedpribor Plant will begin the series production of this apparatus next year.

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UDC 536.24:621.175

SALTANOV G. A., SELEZNEV, L. I.

"Change of Parameters and Structure of & Stream of Moist Steam with Interphase Heat and Mass Exchange in the Relaxation Zone Behind the Leading Edge

Teplofizika Vysokikh Temperatur, Vol 9, No 6, 1971, p. 1200-1206.

Abstract: Certain relaxation phenomens behind the leading edge of a shock wave in moist steam with small drops formed by spontaneous condensation are studied. Numerical solution of a system of equations is used to determine changes in the parameters of the stream and its structure when the 2-phase medium before the shock wave is in thermodynamic equilibrium.

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USSR

UDC 621,165

DEYCH, M. Ye., FILIPPOV, G. A., SALTANOV, G. A., LAUKHIN, Yu. A., and SIVOBOROD, V. A.

"Investigation of Phase Transitions in Eddy Currents of Supersaturated Steam"

Moscow, Energetika i Transport, No 2, 1972, pp 160-166

Abstract: In the article are presented the results of an experimental investigation of the condensation of water vapor in a vortex wake behind a stream flowing lengthwise about a flat plate at $M_{\infty} < 1$. Special attention was devoted to the structure of the vortex wake and to the particle size of the liquid phase in the wake. The dispersion field of the liquid phase in the wake behind the edge was measured. The stream was photographed in order to obtain the wake structure more exactly. A theoretical justification of the possibility of steam condensation in eddy currents is given on the basis of the consideration of a single eddy. 5 figures. 9 references.

1/1

- 32 -

USSR

UDC: 532.529.6

SALTANOV, G. A.

"Particle Interaction with a Wedge Surface in an Ultrasonic Two-Phase Flow"

Moscow, <u>Izvestiya Akademii Hauk SSSR--Energetika i transport</u>, No. 1, January-February 1971, pp 141-149

Abstract: Since a general analysis of particles interacting with the surface of a wedge surrounded by ultrasonic two-phase currents is extremely complex, this paper begins by considering two limiting cases of interaction: the first, when the particles are drops of a liquid and their shock on the wedge surface is absolutely inelastic; the second, when the drops are solid, undeformed particles and their shock on the surface is absolutely elastic. In his analysis, the author uses an equation for the trajectory of the particles behind the front of the diagonal discontinuity he obtained in an earlier paper, writted by himself in collaboration with A. V. Kurshakov in the same journal named above (Dvizheniye chastits za bosym skachkom uplotneniya pri obtekanii klina sverkazvukovym dvukhfaznym potokom -- Particle kotion Behind the Diagonal Discontinuity for a wedge in Two-Phase Ultrasonic flow -- No. 6, 1970). The assumption is made that the particles in the two-phase flow in front of the

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

SALTANOV, G. A., Izvestiya Akademii Nauk SSSR--Energetika i transport, Noscow, No. 1, January-February 1971, pp 141-149

density discontinuity have the same dimensions, are uniformly distributed, and do not fracture in their transition through the discontinuity. The author concludes that in the interaction of particles and surface, the local rise in pressure at the collision point occurs only near the nose of the wedge and diminishes rapidly at a distance from it, and that the local impulse of the liquid particles at the collision point may reach very high values due to the cavitation effect. He suggests also that further developments in this work should involve analysis of the particle movement with heat and mass exchange taken into account, and that the effect of the particles on the gas flow, their fracture, and their collisions should also be considered.

2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

USSR

UDC 533.6.011.5:532.529.5

SALTANOV, G. A., TKALENKO, R. A.

"Supersonic Two-Phase Flow Over a Wedge"

Moscow, Mekhanika zhidkosti i gaza, No. 2, Mar/Apr 72, pp 83-86

Abstract: The equations describing the flow between the surface of a wedge and a shock wave as given by Krayko and Sternin and the characteristics method developed for flows of a mixture of a gas with particles of different kind in nozzles are used to study supersonic two-phase flow over a wedge. It is noted that one encounters such a flow in calculating flow around blades of the last stages of condensation turbines and in studying the motion of aircraft in cloudy conditions. In the latter case there occurs a change in the wave structure and interference picture of the flow around the aircraft that can lead to uncalculated modes of motion, in addition to erosion of the leading edges of the wing profiles. It is shown that the general picture of gas flow between the front of a shock wave and the surface of a wedge is qualitatively similar to the picture of flow upon the breakdown of thermodynamic equilibrium in a gas, such as vibrational relaxation and nonequilibrium chemical reactions. This picture

USSR

SALTANOV, G. A., TKALENKO, R. A., Mekhanika zhidkosti i gaza, No. 2, Mar/Apr 72, pp 83-88

consists of a relaxation zone behind the front of the shock wave in which balancing of the velocities and temperatures of the gas and the particles and the entropy layer close to the surface of the wedge occurs.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

USER

UDC 629.7.063.7(088.8)

SKOTNIKOV, P. A., SALTAYS, E. A., SALUGIN, V. K., GRAYFER, N. P., ZAV'YALOV, V. I.

"Bypass Valve for Aircraft Engine Lubrication System"

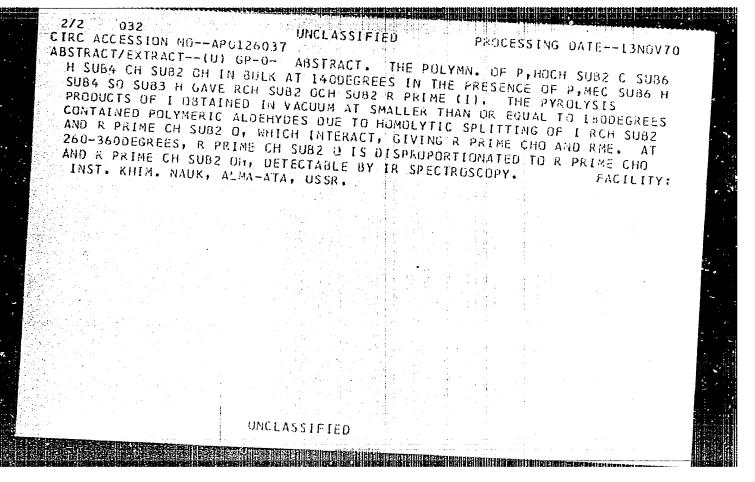
USSR Authors' Certificate, Class B 64 d 33/00, F 16 k 5/00, No. 305104, Announced 3 February 1970, Published 10 September 1971 (from RZh-Aviatsionmyye i raketnyye dvigateli, No 4, Apr 72, Abstract No 4.34.66 P)

Translation: A bypass valve for an aircraft lubrication system according to Authors Certificate No. 295712 (see RZh-Aviatsionnyye i raketnyye dvigateli, 1971, 12.34.42) is patented but is distinguished by the fact that to reduce hydraulic resistance the cavity of the shut-off element is separated by a partition into two chambers, radial slits in which have opposite angular displacement relative to the corresponding slits in the overlapping bushing separated from the bimetallic spiral by a cylindrical screen. 2 ill., Resume.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

1/2 032 TITLE--THERMAL DECOMPOSITION OF THE DIMETHYLENE ETHER BOND IN MOLYMERS -U-AUTHOR-(05)-NEVSKIY, V.M., YATSENKO, E.A., GRABARNIK, L.G., SALTYBAYEV, COUNTRY OF IMPO-USSR SOURCE--IZV. AKAD. NAUK KAZ. SSR, SER. KHIM. 1970, 20(2), 78-80 DATE PUBLISHED----70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS -- THERMAL DECUMPOSITION, METHYLENE, ETHER, POLYMERIZATION, GLYCOL, PYROLYSIS, IR SPECTRUM CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/0265 STEP NO--UR/0360/70/020/002/0078/0080 CIRC ACCESSION NO--APOLEGOST UI:CLASSIETED



007 TITLE--HYDROCARBON FORMALDEHYDE RESINS -U-

PROCESSING DATE--04DEC70

AUTHOR-(02)-GUTSALYUK, V.G., SALTYBAYEV, D.K.

COUNTRY OF INFO--USSR

SOURCE--TR. INST. KHIM. NAUK, AKAD. NAUK KAZ. SSR 1970, 28, 3-23

DATE PUBLISHED----70

SUBJECT ARENS--MATERIALS

TOPIC TAGS -- HYDROCARBON RESIN, FORMAL DEHYDE, CONDENSATION REACTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0799

STEP NO--UR/0000/70/028/000/0003/0023

CIRC ACCESSION NO--AT0132897

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

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USSR

IL'IN, V. D., KUROV, B. N., and SALYGA, V. I.

vic: 51

"Effectiveness of the Optimal Control of Energy Systems"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Automation Instruments and Systems, Republic Interdepartmental Thematic Scientific-Technical Collection) No 26, 1973, pp 112-116 (from FZh-Matematika, No 7, 1973, Abstract

Translation: The model of a thermal energy system is examined with respect to its application to the problem of optimizing the distribution of the active loads among electric power stations. Various algorithms in the form of programs for an electronic computer are presented. A combination of algorithms in the FORTRAN-4 language is devised. Authors' abstract.

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- 35 -

USSR

UDC: 51

IL'IN, V. D., KUROV, B. N., and SALYGA, V. I.

"Synthesis of Algorithms for Controlling Complex Systems"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Automation Systems and Instruments, Republic Interdepartmental Thematic Scientific-Technical Collection) No 26, 1973, pp 107-111 (from RZh--Matematika, No 7, 1973, Abstract

Translation: The problem of comparing competitive algorithms with a standard algorithm is considered. Criteria of comparative effectiveness and of the comparison condition are formulated. The problem of determining the number of tests for comparing the algorithms in a specified time interval is examined. Conditions are given for comparing solutions; these can be used to choose the most effective algorithm for a given energy system. Authors' abstract.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

USSR

SALTYKOV, R.

"Microbes Protect Against Disease"

Moscow, Nauka i Zhizn', No 10, 1972, pp 63-65

Abstract: Written in conjunction with the celebration of the 150th anniversary of the birth of Louis Pasteur, the article discusses in layman's language the methods used to weaken and alter pathogenic microbes and thus enable them to protect the body against diseases they normally cause. It describes some of the procedures for manufacturing vaccines, particularly the dry, live type favored by the USSR, and how the latter confer immunity against specific diseases. Mention is made of the successful use of these preparations to control anthrax, yellow fever, and measles in the USSR. However, live influenza vaccine protects only about half the persons inoculated.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

Imminology

USSR

UDC 616.981.51-097.3-092.9.:599.323.4

SALTYKOV. R. A., IESNYAK, O. T., and ULANOVA, A. A., State Control Institute

"The White Mouse as an Immunological Model in Anthrax"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 8, 1971,

Abstract: Experiments were performed with random bred white mice to determine their suitability as an immunological model in anthrax. Active immunity was studied after single subcutaneous vaccination of the animals with live STI anthrax vaccine. Passive immunity was tested by injecting them subcutaneously with anti-anthrax serum or globulin derived from it. The results were analyzed by statistical methods. The mice were found to be useless as an experimental model for the evaluation of active postvaccinal immunity to anthrax. But vaccinated animals can be used to study specific passive immunity provided that they are inoculated with Tsenkovskiy's second vaccine (a suspension of spores from strain 71/12 which kills white mice in 24 to 72 hours). Earlier Published reports on the subject are critically coalyzed.

1/1

Immunology

USSR

UDC 615.371:576.851.511].036.8.078

LESNYAK, O. T., and SALTYKOY R.A., Control Institute of Medical Niological Preparations imeni Tarasevich

"Comparison of the Immunogenicity of Anthrax Vaccine Strains"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 8, Aug 70, pp 32-35

Abstract: The immunogenicity of live STI (Ginsburg) and 34-F-2 (Sterne) vaccine strains was tested by various methods in a series of experiments on guinea pigs. Both the method employed in the USSR and that recommended by the World Health Organization revealed only the qualitative characteristics of the strains, but were useful in distinguishing strains which were suitable for vaccination from those which were not. The authors method of evaluating vaccine strains from the index of immunity in vaccinated guinea pigs makes it possible to obtain a quantitative characterization of the immunity produced by the various strains. Using this method, it was found that the STI strain produced significantly higher

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USSR

UDC 615.371:576.851.45].001.5(47+57)

SALTYKOV, R. A., MOTORNAYA, V. P., and SIROTYUK, L. V., State Control Institute of Medical Biological Preparations imeni Tarasevich, Moscow

"Experience Gained During 25 Years of Investigating the Stability of the Properties of Vaccinal Tularemia Strains"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 12, 1972, pp 64-70

Abstract: Stability of immunogenicity and apathogenicity was investigated in Gayskiy's vaccinal strains No 15 and Ondatra-4 since 1943 and in Faybich-Saltykov-Tamarina's vaccinal strains No 10, 33, and 53 since 1944-1947. While the loss of pathogenicity proved to be permanent, strain Ondatra-4 did not retain its full immunogenicity for long and was pronounced unsuitable for live vaccine in 1946. Since that time, efforts were concentrated on developing methods of stabilizing high immunogenicity in vaccinal strains. Freeze-drying according to Faybich-Tamarova's method yielded a dry stock which was convenient for storage but which lost its immunogenicity to a high degree by 1950. Therefore, the strains were cultivated in guinea pig ovaries which have a high hyaluropidase concentration, and in 1953, after 10 passages, they regained their vaccination of volunteers proved their avirulence, the strains were ratified for

USSR

SALTYKOV, R. A., et al., Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 12, 1972, pp 64-70

serial manufacture of dry live tularemia vaccine. Albino mice are most suitable for testing the pathogenicity and guinea pigs for testing the immunogenicity of vaccinal strains. Currently, Gayskiy's NIIEG strain No 15 yields the most immunologically potent tularemia vaccine.

2/2

USSR

UDC: 681.32.CO1

NURMUKHAMEDOV, G. M., NESTEROV, P. V., SALTYKOV

"Wire Substrate for Cylindrical Magnetic Films"

Elektron. tekhnika. Nauch.-tekhn. sb. Mikroelektronika (Electronic Technology. Scientific and Technical Collection. Microelectronics), 1971, vyp. 4(30), pp 164-175 (from RZh-Avtomatika, Telemekhanika i Vychislitel'neva Tekhnika, No 10, Oct 71, Abstract No 10B137 P)

Translation: Basic requirements are formulated which must be satisfied by a wire substrate, and the influence of the substrate on the properties of cylindrical magnetic films is analyzed. A detailed investigation is made of the physical and mechanical properties of thin BrB2 copper-beryllium alloy wire, and recommendations are given on its use as a cylindrical substrate. A description is given of the technology for making a precision wire substrate, including processes of continuous tempering, mechanical treatment by rotating diamond draw plates, and thermal stabilization of properties. Seven illustrations, bibliography of nine titles. Resumé.

1/1

- 86 -

USSR

UDC: 621.396.666(088.8)

SALTYKOV, Ye. N., Ryazan Radio Engineering Institute

"A Transistorized Gain Control Device"

USSR Author's Certificate No 251019, filed 26 Aug 67, published 5 Feb 70 (from RZh-Radiotekhnika, No 7, Jul 70, Abstract No 7D75 P)

Translation: Gain control by changing the emitter current of a transistor does not provide passage of high-level signals without distortions. To expand the dynamic control range, the tank load circuit of the transistor being controlled is connected to a power supply through a capacitor-shunted semiconductor diode, while the voltage divider resistors in the base circuit of the controlled transistor are connected between the poles of the power supply. Resume.

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USSR

UDC 547.26:118

KRUGLYAK, YU. L., LANDAU, M. A., LEYBOVSKAYA, G. A., MARTYHOV, I. V., SALTYKOVA, L. I.

"Reaction of O-Imino-O,O-Dialkylphosphites with &-Chloronitrosoand of-Chloronitroalkanes"

Leningrad, Zhurnel Obshchey Khimii, Vol 41, No 10, 1971, pp 2338-2339

Abstract: A series of chemical conversions of O-imino-O,O-dialkyl phosphites (I) were carried out at a temperature in the -10 to 0 degrees, because of known instability of I at a temperature above of degrees. Farticularly, the typical reactions of trialkyl phosphites with of-chloronitroso- and A-chloronitrosalkanes gave, in the case of I, 0,0-diimino-0-elkyl phosphites. The structure of the latter was determined by their JMR and IR spectra. The formules and some physical constants of the propared compounds

CIA-RDP86-00513R002202810001-5" APPROVED FOR RELEASE: 09/01/2001

USSR

WC 621.357.13:669.28

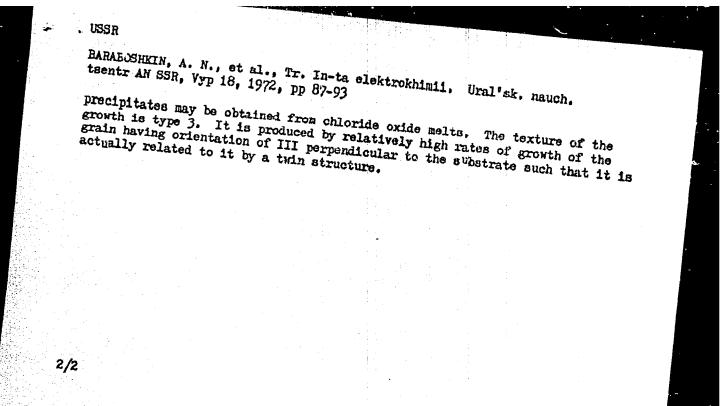
BARABOSHKIN, A. N., SALTYKOVA, N. A., TALANOVA, M. I., and MARTEM'YANOVA, Z. S.

"The Structure of Continuous Deposits of Molybdenum Obtained from the Electrolysis of the Melt KCl-K3HoCl6"

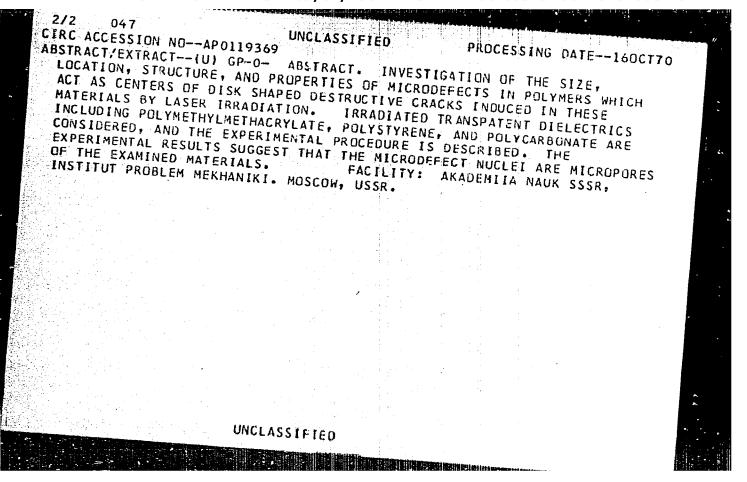
Tr. In-ta elektrokhimii. Ural'sk. nauch. tsentr AN SSR (Works of the Institute of Electrochemistry. Ural Scientific Center, Academy of Sciences USSR), Vyp 18, 1972, pp 87-93 (from Referativnyy Zhurnal -- Khimiya, No 8(II),

Abstract: A study was made of the influence of the electrolysis parameters on the structure of the continuous deposition of No prepared from a melt containing KCl and K_MoCl6. The electrolysis was carried out under an atmosphere of argon. The precipitate was studied netallagraphically and by x-ray analysis. The thickness was determined from the increase in weight. The radial texture by the ARKHAROV method. The feasibility was demonstrated for preparing deposits of high purity Mo having a thickness of a new mn from strictly chloride melts. For this, it is necessary to use high purity salts as a starting material and high purity inert gas to separate the anolyte from the catholyte. A number of materials, such as graphite, W. Pt. Sr. Fd. Au, Ha, Fe, Ni, and Ag, may be used for the cathode and strongly cohesive

- 2 -



TITLE--POLYMER MICRODEFECTS AS THE CENTRES OF DESTRUCTIVE CRACKS INDUCED 047 AUTHOR-(05)-AGRANAT, M.B., CHERNIAVSKIY, F.N., NOVIKOV, N.P., SALUENIA, PROCESSING DATE--160CT70 COUNTRY OF INFO--USSR SOURCE--NATURE, VGL. 226, APR. 25. 1970, P. 349-351 HEIOPH FRANK PRINTERS DATE PUBLISHED -- 25APR 70 SUBJECT AREAS -- MATERIALS, PHYSICS TOPIC TAGS--LASER RADIATION, CRACK PROPAGATION, DIELECTRIC MATERIAL, POLYMETHYLMETHACRYLATE, POLYSTYRENE RESIN, POLYCARBONATE CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0433 STEP NO--UK/0000/70/226/000/0349/0351 CIRC ACCESSION NO--APOL19369 UNCLASSIFIED

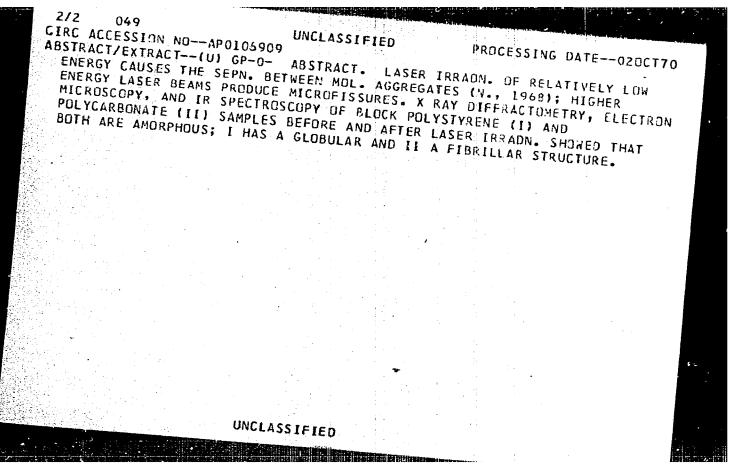


SKOTNIKOV, P. A., SALTAYS, E. A., SALUGIN, V. K., GRAYFER, N. P., ZAV'YALOV, V. I. "Bypass Valve for Aircraft Engine Lubrication System"

USSR Authors' Certificate, Class B 64 d 33/00, F 16 k 5/00, No. 305104, Announced 3 February 1970, Published 10 September 1971 (from RZh-Aviatsionnyye i raketnyye dvigateli, No 4, Apr 72, Abstract No 4.34.66 P)

Translation: A bypass valve for an aircraft lubrication system according to Authors Certificate No. 295712 (see RZh-Aviatsionnyye i raketnyye dvigateli, 1971, 12.34.42) is patented but is distinguished by the fact that to reduce hydraulic resistance the cavity of the shut-off element is separated by a partition into two chambers, radial slits in which have opposite angular displacement relative to the corresponding flits in the overlapping bushing separated from the bimetallic spiral by a cylindrical screen. 2 ill., Resume.

1/2 TITLE---SUPRAMULECULAR STRUCTURE OF GLOCK POLYSTYRENE AND POLYCARBONATE -U-AUTHOR-(05)-GERASIMOV, V.I., KARGIN, V.A., NOVIKOY, N.P., SALUYENYA, S.S., COUNTRY OF THEO-USSR снапиманыны... SOURCE--VYSOKOMOL. SOEDIN., SER. A 1970, 12(2) 382-7 DATE PUBLISHED----70 SUBJECT AREAS--CHEMISTRY, MATERIALS, PHYSICS TOPIC TAGS--MOLECULAR STRUCTURE, LASER RADIATION, POLYSTYRENE RESIN, POLYCARBONATE, X RAY DIFFRACTION, ELECTRON MICROSCOPY, IR SPECTROSCOPY, CONTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME--1989/0253 STEP NO--UR/0459/70/012/002/0382/0387 CIRC ACCESSION NO--AP0106909 UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE-300CT70
DEDIFFERENTIATION OF TISSUE DURING CARCINOGENESIS, CHANGES OF CREATINE
AUTHOR-(05)-SALYAMON, L.S., ASHMARIN, I.P., OSTRETSOVA, I.B., LYZLOVA,
CGUNTRY OF INFO-11CCD

SGURCE-- TS1TOLOGIYA 1970, 12(1), 102-10

DATE PUBLISHED -----70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS—TUMOR, TISSUE PHYSIOLOGY, CELL PHYSIOLOGY, ENZYME ACTIVITY, CARCINOGEN, CARBON TETRACHLORIDE, LEAD COMPOUND, BENZENE DERIVATIVE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-3001/2107

STEP NO-UR/9053/70/012/001/0102/0110

CIRC ACCESSION NO--APO127480

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

2/2 015 UNCLASSIFIED CIRC ACCESSION NO--APO127480 PROCESSING DATE--300CT70 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CREATINE KINASE (I) AND ALK. PHOSPHATASE (II) ACTIVITY WAS STUDIED IN TRANSPLANTABLE TUMORS THEPATOMA 224 IN C SUB3 HA MICE. HEPATOMA 27 AND KIDNEY TUMOR AB-12 IN RATS) AND TISSUES OF MICE AND RATS ADMINISTERED CARCINOGENIC COMPOS. (CCL SUB4. PB(OAC) SUB2. URETHANE AND 3,4, BEZNO (ALPHA) PYRENE). I ACTIVITY HAS INCREASED 3 FOLD IN HEPATOMA 27 AND 5-10 FOLD IN HEPATOMA 22A. IT INCREASED ALSO UP TO 2 FOLD DURING THE HEPATOCARCINOGENESIS IN MICE AFTER CCL SUB4 ADMINISTRATION. AFTER THE ADMINISTRATION OF 3.4. BENZG(ALPHA)PYRENE. I ACTIVITY IN SKELETAL MUSCLES DECREASED TO 56PERCENT OF THE NORMAL VALUE WITHIN 26 DAYS AND A SIMILAR DECREASE HAS FOUND IN KIDNEYS OF RATS ADMINISTERED PB ACETATE. HOWEVER, I ACTIVITY IN THE LIVER WAS INCREASED. II ACTIVITY IN THE LIVER OF MICE ADMINISTERED CCL SUB4 INCREASED UP TO 3 FOLD DURING THE 1ST FEW DAYS THEN RETURNED TO NORMAL VALUES. PB ACETATE CAUSED A DECREASE IN II ACTIVITY IN THE KIDNEY AND KIDENY TUMORS. AFTER THE ADMINISTRATION OF URETHANE, II ACTIVITY IN THE LIVER INCREASED. IT HAS CONCLUDED THAT CHEM. CARCINOGENESIS IS ACCOMPANIED BY REPRESSIONS AND DEREPRESSIONS OF GENES REGULATING THE SYTHESIS OF ENZYMES IN CERTAIN TISSUES. FACILITY: LAB. PATHOL. PHYSIOL. TUMOR GROWTH, INST. UNCOL., LENINGRAD,

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

IL'IN, V. D., KUROV, B. N., SALYGA, V. I.

UDC: 51

"Synthesis of Algorithms for Controlling Complex Systems"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Devices and Systems of Automation. Republic Interdepartmental Thematic Scientific and Technical Collection), 1973, Vyp. 26, pp 107-111 (from RZh-Kibernetika, No 7, Jul 73, abstract No 7V553 by the authors)

Translation: The problem of comparing competing algorithms by means of a standard algorithm is considered. A criterion of relative effectiveness and conditions of comparison are formulated. The question of determining the number of tests when comparing algorithms on a given time interval is considered. The given conditions for comparing solutions can be used in selecting the most effective algorithm for a specific energy system.

1/1

USSR

UDC: 8.74

SALYGA, V. I., SIRODZHA, I. B.

"Teaching a Machine Optimum Control of a Multifactor Object With the Use of a Recognition Algorithm by the R-Function Method"

Pribory i sistemy avtomatiki. Resp. mezhved. temat. nauch.-tekhn. sb. (Devices and Systems for Automation. Republic Interdepartmental Thematic Scientific and Technical Collection), 1972, vyp. 22, pp 23-31 (from RZh-Kibernetika, No 6, Jun 72, Abstract No 6V578)

Translation: The paper deals with problems of synthesizing teachable control systems which utilize methods of the theory of automatic pattern recognition. Experimental results are presented on teaching control of a flotation process to a computer. Authors' abstract.

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USSR

UDC: 8.74

SIRODZHA, I. B., SALYGA, V. I., MYSHKO, Ye. I., VASILENKO, Yu. A., KARTA-SHOV, L. N., PRYANITSKIY, A. M., KUZ'MINA, O. I.

"Modeling the Process of Teaching Pattern Recognition by the Method of R-Functions With the Use of a Digital Computer"

Probl. bioniki. Resp. mezhved. temat. nauch.-tekhn. sb. (Problems of Bionics. Republic Interdepartmental Thematic Scientific and Technical Collection), 1971, vyp. 7, pp 106-112 (from RZh-Kibernetika, No 4, Apr 72, Abstract No 4V582)

Translation: The paper deals with a mathematical model of instruction whose basis is a developed learning algorithm of pattern recognition distinguished by the use of a fundamentally new procedure of predicative description of arbitrary geometric forms in multidimensional spaces with the aid of R-functions. Authors' abstract.

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UDC: 621.372.85

KRAVCHENKO, V. F., ZHILKOV, V. S., SALYGA, V. I., USTIMENKO, V. V., BAL'-USSR ZAMOV, B. N., BAKLANOV, O. D.

"On the Possibility of Constructing Automatic Matching Circuits in the Microwave Band"

Pribory i sistemy avtomatiki. Resp. mezhved. nauch.-tekhn. sb. (Devices and Systems for Automation. Republic Interdepartmental Scientific and Technical Collection), 1971, vyp. 15, pp 75-77 (from RZn-Radiotekhnika, No 6, Jun 71, Abstract No 6B188)

Translation: The authors consider circuit designs for automatic matchers for waveguide channels. Possible versions for practical realization of these circuits are considered, and it is also pointed out that impedance transformers based on using bodies of the proper shape can be used in automatic matchers. It is concluded that adaptive automatic matchers can be made for operation over a wide frequency band. Resumé.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

UDC: 621.316.543(088.8)

USSR

UFKIN, V. K., SALYM, G. Ya.

USSR Author's Certificate No 277902, filed 14 Mar 69, published 12 Nov 70 "A Switch" (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V419 P)

Translation: This switch contains linearly arranged contact groups, and a rotating roller above these groups with commutating elements and detents for the working positions. As a distinguishing feature of the patent, the design is simplified and operating reliability is improved by locating the roller inside the cylindrical cavity of the switch housing, and by using spring-loaded balls which fit into holes in the walls of the housing and are arranged in radial grooves in the switch as the commutating elements and detents.

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UDC: 621.375.82

USSR

PETROV, V. V., KRYUCHIN, A. A., SALYUK, L. I., TOKAR', A. P.

"Focusing Laser Emission in Optical Memory Devices"

Kiev, Fokusirovka lazernogo izlucheniya v opticheskikh zapominayushchikh ustroystvakh. AN USSR. In-t elektrodinam. (cf. English above. UkrSSR Academy of Sciences. Institute of Electrodynamics), Preprint No 54, 1973, 17 pp, ill., 7 k., mimeo. (from RZh-Fizika, No 11, Nov 73, abstract No 11D1443 [résumé])

Translation: Concentration of laser emission into a spot of fairly small dimensions is considered. Different types of focusing systems are analyzed. Graphs are presented showing the emission density and size of the focused spot as functions of the parameters of the optical system. It is shown that in an optical memory device with discrete data recording it is advisable to use a focusing system with telescope.

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- 27 -

Marine

USSR

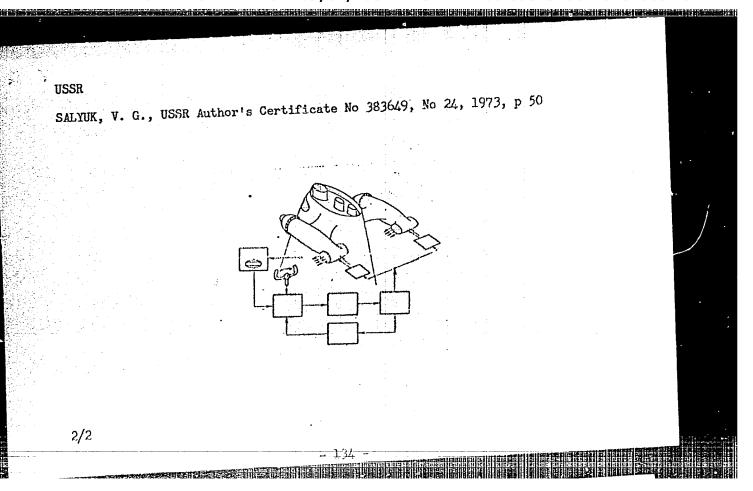
SALYUK, V. G.

"Jet Ship Roll Accelerator"

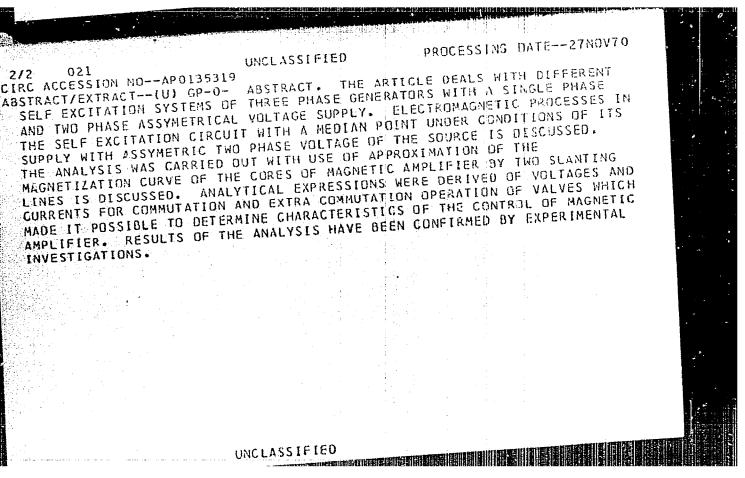
USSR Author's Certificate No 383649 (from Otkryttya, Izobreteniya, Promyshlennyye obraztsy, Tovarnyye znaki (Discoveries, Inventions, Industrial Models, Trademarks), No 24, 1973, page 50)

Translation: This jet ship roll accelerator containing lateral nozzles and a kinetic energy source is distinguished by the fact that in order to improve its efficiency, the lateral nozzles are located above the deck superstructures, for example, in the upper part of the smokestack on the starboard and port sides, and they are executed with automated control using a gyrotransmitter which regulates louvers, and the source of kinetic energy is executed in the form of a turbocompressor jet engine.

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PROCESSING DATE--27NOV70 UNCLASSIFIED TITLE--ELECTROMAGNETIC PROCESSES IN THE AUTOEXCITATION SYSTEM OF GENERATORS WITH MAGNETIC AMPLIFIERS -U-AUTHOR-(Q3)-ZDROK, A.G., SALYUTIN, A.A., MOKHOV, V.V. COUNTRY OF INFO--USSR SOURCE--MOSCOW, ELEKTRICHESTVO, NO 3, 1970, PP 47-52 DATE PUBLISHED----70 SUBJECT AREAS -- PHYSICS, ELECTRONICS AND ELECTRICAL ENGR., ENERGY CONVERSION (NON-PROPULSIVE) TOPIC TAGS--ELECTRIC GENERATOR, ELECTROMAGNETIC ! FECT, MAGNETIC AMPLIFIER CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0105/70/000/003/0047/0052 PROXY REEL/FRAME--3006/1748 CIRC ACCESSION: NO--AP0135319



UDC: 621.375.826+621.039.64

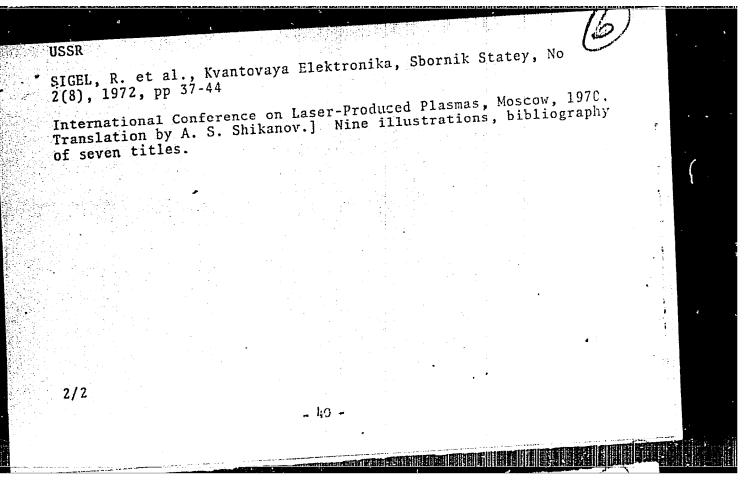
HORA, H., MENNICKE, H., MULSER, P., PFIRSCH, D., SALZMANN, H.

"Survey of Studies of Laser-Produced Plasmas at the Max Planck Institute of Plasma Physics in Garching, West Germany"

Moscow, Kvantovaya Elektronika, Sbornik Statey, No 2(8), 1972, pp 37-44

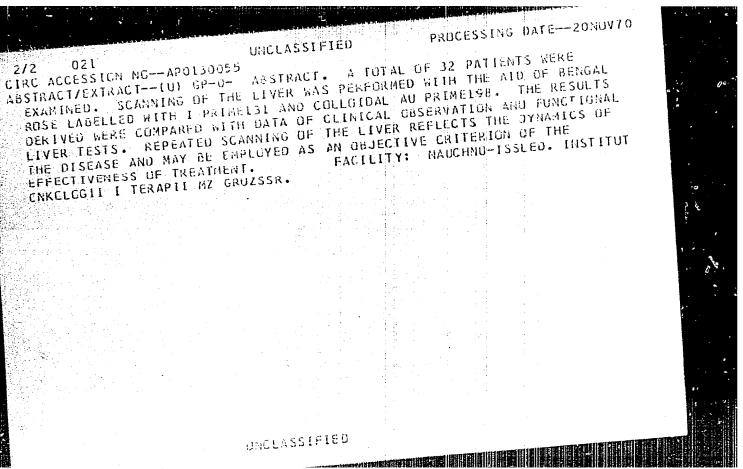
Abstract: The paper is a survey of experimental and theoretical research on laser-produced plasmas done at the Max Planck Institute of Plasma Physics in Garching. Experiments are described on heating of a plasma by emission from a neodymium laser with energy of 30 J and pulse duration of approximately 30 ns. The energy or 30 J and pulse duration or approximately 30 ns. The plasma temperature was measured by a filter method; the time of flight and average kinetic energy of the ions were measured by probes. A laser with a single pulse lasting a few picoseconds probes. A laser with a single pulse lasting a few picoseconds is described. The results of theoretical studies done on computers are presented. The article is a brief version of a new puters are presented. puters are presented. [The article is a brief version of a paper presented to the editors by the organizational committee of the

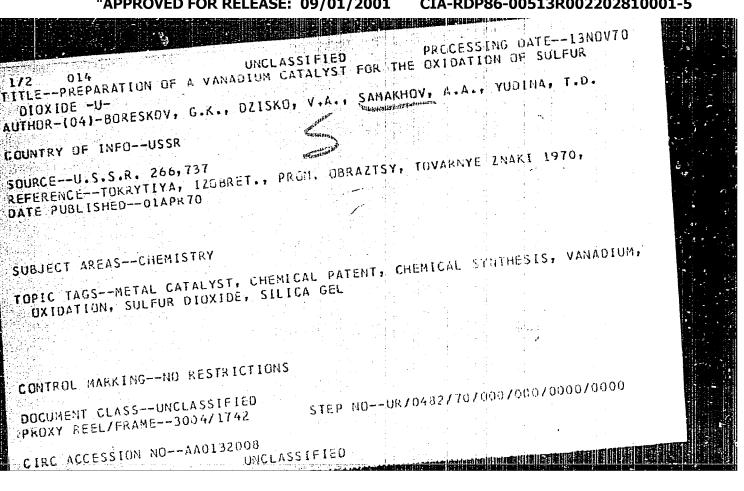
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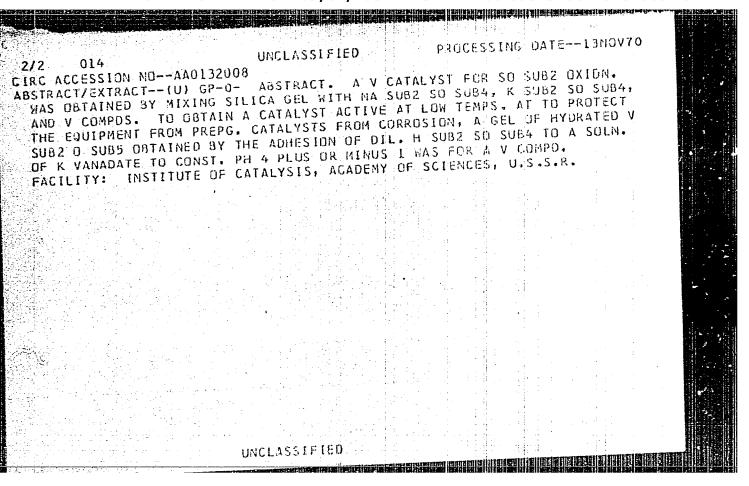


PROCESSING DATE-20NOV70 TETLE-THE EMPLOYMENT OF SCANNING OF THE LIVER FOR THE EVALUATION OF THE 1/2 021 EFFECTIVENESS OF TREATMENT OF CHRONIC HEPATITIS AND LIVER CIRRHOSIS -U-AUTHOR-(03)-BARAMIDZE, T.G., SAMADASHYILLA, A.G., ROSTUMOVA, L.T. CCUNTRY OF INFO--USSR SOURCE-MEDITSINSKAYA RADIGLOGIYA, 1970, VOL 15, NR 6, PP 49-54 DATE PUBLISHED----70 SUBJECT AREAS-BICLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--BIULOGIC STAIN, DIAGNOSTIC DRUG, HEPATITIS, CIRRHOSIS, LIVER FUNCTION, TODINE ISOTOPE, GOLD ISOTOPE, CHEMICAL LABELLING CONTROL MARKING-NO RESTRICTIONS STEP NU-+UR/0241/70/015/006/0049/0054 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1020 CIRC ACCESSION NO--APO130055 THICKASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"







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621.373.826:550.3 UDC

USSR

ARSHINOV, Yu. F., DONCHENKO, V. A., ZUYEV, V. Ye., MOSTIN, V. V., and SAMOKHVALOV, I. V.

"Propagation of Laser Radiation for $\lambda = 2.36$ Microns in Artificial Dispersing Media"

Moscow, V sb. X Vses. konf. po rasprostr. radiovoln. Tezisv dokl. (Tenth All-Union Conference on the Propagation of Mad o Maves; Report Theses--collection of works) "Nauka," 1972, pp 157-161 (from RZh--Radiotekhnika, No 10, 1972, Abstract 10D439)

Translation: Results are given of a study of the attenuation and inverse scattering of the radiation from a laser using CaF2: Dy2+ $(\lambda = 2.36\mu)$ and Ne-He mixture $(\lambda = 0.63\mu)$ in a medium simulating some types of natural clouds, fogs, and wood smoke. Bibliography of five. A. L.

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- 81 -

UDC 551.508.8

USSR

ZUYEV, V. YE., SANOKHVAIOV, I. V., and BALIN, YU. S., Institute of Atmospheric Optics, Siberian Department of the Academy of Sciences USSR

"Study of Atmospheric Ground Layer and Clouds by Lidar Hethod"

Tomsk, Izvestiya Vysshikh Uchebnykh Zavedeniy -- Flzika, No 5, 1972, pp 125-128

Abstract: The article describes equipment for studying the atmospheric ground layer and clouds by the laser radar method. Radiation emitted by the laser is collimated by an optical system and is sent to the atmosphere by means of two flat mirrors. Part of the radiation strikes a photocell, by means of which oscillograph scanning is begun, and is sent through a 120-nsec delay line to the input of a vertical-deflection amplifier (the reference signal is measured). The radiation reflected by the atmosphere is detected by a receiving system and is recorded (photographed) on the oscillograph through a 480-nsec delay line, which provides time division of the reference and reflected signals. Line, which provides time division of the reference and reflected signals. A giant-pulse laser with a wavelength of 6943 A and a radiation pulse duration of 60 nsec is used. An FEU-83 photomultiplier with a cathode follower is

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USSR

ZUYEV. V. YE., et al., Izvestiya Vysshikh Uchebnykh Zavedeniy -- Fizika, No 5, 1972, pp 125-128

used as the sensitive element of the receiving system. An SI-II pulse rapid-record oscillograph is used to record the reference and reflected signals. The use of narrow-band filters ($\Delta\lambda$ = 20 Å) permits a sharp increase in the signal-noise ratio and enables atmospheric studies to be carried on in the daytime (in cloudy weather). Results are given for measurements of the radiation attenuation coefficient in the atmospheric ground layer, in clouds and in fog, at the proving ground of the Siberlan Physicotechnical Institute during April-July 1970.

The authors thank V. S. SHAMANAYEV for his active part in the measure-

ments.

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- 89 -

UDC 547.26'118

USSR

GORBATENKO, Z. I., BONDAR', V. A., and SAMARAY, L. I., Institute of Organic Chemistry, Academy of Science Ukrainian SSR

"The Reaction of Diarylchloromethylisothiocyanates with Dithiophosphoric and Dithiophosphonous Acids"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), Vyp 11, 1972, pp 2580-1581

Abstract: Diphenylchloromethylisothiocyanates react with the 0,0-diethers of dithiophosphoric acid and with diaryldithiophosphonous acids in the presence of triethylamine at room temperature in an inert solvent, resulting In S-isothiocyanatodiphenylmethyl ethers of the respective phosphorus acid 4Et.N R₂P(S)-SCPh₂-NCS as shown below:

 $Ph_2C-NCS+R_2P(S)SH \xrightarrow{+Et_3N+HCl}$ R = OFt, OPi-t, OPh, Ph.

The IR spectra of (I) contain intense absorption bands in the area 2050-2060 cm-1 which are characteristic of the NG3 group. 1/1

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CIA-RDP86-00513R002202810001-5" APPROVED FOR RELEASE: 09/01/2001

USSR

UDC 547.26

IVANOVA, ZH. M., GUSAR', N. I., MIROSHICHENKO, V. V., SAHARAY, L. I., Institute of Organic Chemistry, Academy of Sciences of the Ukrainian SSR

"A Method of Making Triphosphoric Acid Isocyanide Dichlorides"

Moscow, Otrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyje Znaki, No 15, Apr 73, Author's Certificate No 374321, Division C, filed 25 Jun 71, published 20 Mar 73, p 52

Translation: This Author's Certificate introduces: 1. A method of making triphosphoric acid isocyanide dichlorides of the general formula

where R is an alkyl. As a distinguishing feature of the patent, an alkyl dichlorophosphite is reacted with N-chlorosulphenyl isocyanide dichloride with subsequent isolation of the goal product by conventional methods. 2. A modification of this metod distinguished by the fact that the alkyl dichlorophosphite and N-chlorosulfenyl isocyanide dichloride are taken in a molar ratio of 2:1. 3. A modification of this method distinguished by the fact that the process is done at 40-50°C.

USSR UDC 547.26'118

GORBATENKO, V. I., KRUGLIK, L. I., and SAMARAY, L. I., Institute of Organic Chemistry, Academy of Sciences, Ukrainian SSR

"Isocyanatodiarylmethyl 0,0-Diaryl Phosphonates"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, pp 1043-1047

Abstract: Previously it had been shown that ketimines react with phosgene yielding a mixture of tautomers: N-chlorocarbonylketimine and O-chloroalkyl isocyanates. The mixture of these tautomers reacted with acid or neutral phosphites in presence of triethylamine acting as an acceptor for hydrogen chloride yielded isocyanatodiarylmethyl 0,0-diaryl phosphonates -- viscous light yellow liquids. They are not exceptionally reactive with primary amines and with alcohols in presence of catalytic amounts of triethylamine.

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USSR

WC 546.185

KOLODYAZHNYY, O. I., SAMARAY, L. I., and GAYDAMAKA, S. N., Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR

"Anionotropic Conversion of bis(Trichloromethyl)chlorophosphazocarbonyl Chloride"

Leningrad, Zhurnal Obshchey Khimii, Vol 41, No 8, Aug 71, p 1872

Abstract: bis(Trichloromethyl)chlorophosphazohydride reacts with oxalyl chloride to give bis(trichloromethyl)chlorophosphazooxalyl chloride. The latter decomposes on heating to 120° to give carbon monixide and a mixture of isomers -- bis(trichloromethyl)dichloroisocyanatophosphorus and bis(trichlormethyl)chlorophosphazocarbonyl chloride, UV spectra indicate nobile equilibrium of the isomers in the mixture, which is characteristic of tautomeric systems.

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UDC 632.95

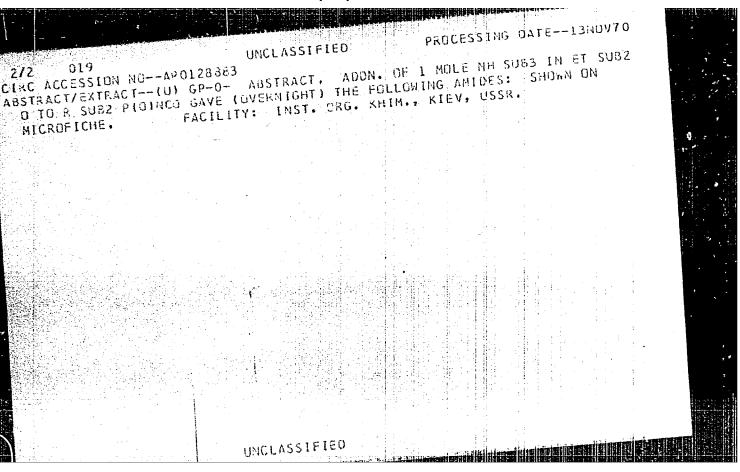
PROTOPOPOVA, G. V., RAYDALOVA, L. I., KOLODYAZHNYY, O. I., SAMARAY, L. I., and DERKACH, G. I., Institute of Organic Chemistry, Academy of Sciences of the UkrSSR

USSR Author's Certificate No 253483, filed 25 Nov 68, published 8 Apr 70 "A Pesticide" (from RZh-Khimiya, No 3, 10 Feb 71, Abstract No 3N553 P)

Translation: N-(0-alkyl-S-alkylthiophosphono)-S-ethylurethanes have LD $_{50}$ 170 mg/kg for warm-blooded animals and have systemic and contact insecticidal and acaricidal action. Most toxic for houseflies is (CH30)(CH3S)-(P(0)NHCOSC₂H₅ (I); 0.01 mg per fly, this compound was 92% fatal (the corresponding figure for chlorophos is 53%); for weevils of the rice and cereal type, most toxic is (CH30)(C2H5S)P(0)NHCOSC2H5 which was 100% fatal at 0.25 mg/dm² and 100% lethal for aphids at 0.005 mg/dm². Compound I is most effective for systemic action on aphids. In field experiments on controlling beet weevils, compound I in a dose of 1 kg/ha was nearly as effective as heptachlor at 2 kg/ha, and is at least as persistent in its effect. Compound I at 0.5 kg/ha was nearly as effective against beet aphids as rogor at 0.3 kg/ha. - 46 -1/1

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DATE PUBLISHED70				
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TOPIC TAGSDRGANIC PEUSPHONATE INSECTICIDE, ORGANIC ISOCYANATE				
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UNCLASSIFIED PROCESSING DATE--300C170

TITLE-ALPHA ALKENYL ISOCYANATES -U-

AUTHOR-(03)-VISHNEVSKIY, O.V., SAMARAY, L.I., DERKACH, G.I.

CCUNTRY OF INFO--USSR

SOURCE--ZH. ORG. KHIM. 1970, 6(3), 468-72

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ORGANIC ISOCYANATE, CHEMICAL SYNTHESIS, CHLORINATION, BENZENE DERIVATIVE

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CENTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1992/1656

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USSR

UDC: 547.261118

SAMARAY, L.I., KOLODYAZHNYY, O.I., VISHNEVSKIY, O.V., and DERKACH, G.I. (Deceased) Institute of Organic Chemistry, Kiev, Academy of Sciences Ukrainian SSR

"Isocyanates of Phosphoric and Thiophosphoric Acids. III"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 4, Apr 70, pp 750-754

Abstract: Isocyanates of phosphoric acids react with hydrazoic acid to give N-azidocarbonylphosphamides. The latter readily enter into oxidative imination reactions with phosphines and phosphites to give corresponding phosphazo compounds. Isocyanates of phosphoric acid esters interact with \(\int_{\text{-caprolactam}}\) on heating in a benzene solution to give N-phosphonocarbamoyl-\(\int_{\text{-caprolactams}}\). Isocyanates of dialkylthio- and dialkylphosphoric acid react with alcohols (mercaptans) to give N-phosphorylated urethanes and thiolurethanes possessing high insecticidal activity, both systemic and contact. N. I. LIPTUGA took part in the work.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202810001-5"

USSR

UEC: 547.26'118

SAMARAY, L.I. KOLODYAZHNYY, O.I., and DERKACH, G.I., (Deceased), Institute of Organic Chemistry, Kiev, Academy of Sciences Ukrainian SSR

"Reaction of Amides of Pentavalent Phosphorus Acids With Phosgene"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 4, Apr 70, pp 754-758

Abstract: The interaction of amides of dialkylphosphoric and dialkylthiophosphoric acids with phosgene gives a mixture of products, vizition operation of the corresponding acids and adducts of the amides with hydrogen chloride. The direction of the reaction of phosgene with hydrogen chloride. The direction of the reaction of phosgene with amides of pentavalent phosphorus acids is discussed. Two possible reaction schemes are suggested, with the likelier scheme being one in which the initial event is the formation of an O-acyl derivative of which the initial event is the formation of an O-acyl derivative of the amidephosphate. This is confirmed by the results of a study of the interaction of phosgene with dialkyl esters of N-monoalkylamido-the interaction of phosgene with dialkyl esters of alkyl esters of phosphoric acid, which show that acid chlorides of alkyl esters of N-alkylamidophosphoric acid are mainly formed. An exception is diethyl ester of N-methylamidophosphoric acid, which is phosgenated to give diethyl ester of N-methyl-N-chlorocarbenylamidophosphoric acid.

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USSR

VDO 547.261118

SAMARAY, L. I., KOLODYAZHNYY, O. I., and DEKKACH, G. I., (DECEASED), Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR

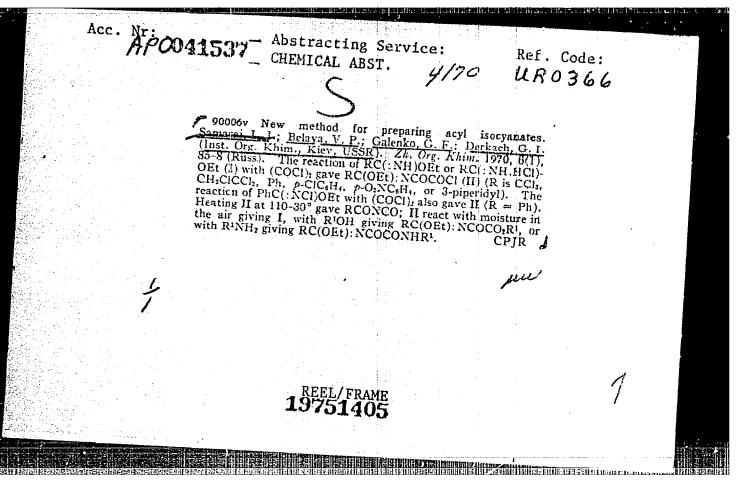
"Reaction of Pentavalent Phosphorus Acid Amides With Oxalyl Chloride"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 5, May 70, pp 994-998

Abstract: Diesters of N-alkylamidophosphoric acid react with oxalyl chloride to give 2,3-disubstituted phosphaoxazolidine-4,5-diones. The interaction of diethyl ester of N-isopropylamidophosphoric acid (R=C₂H₅, R'=iso-C₃H₇) with oxalyl chloride gives, along with 4,5-dione, the acid chloride of ethyl ester of N-isopropylamidophosphoric acid. Phosphaoxazolidine-4,5-diones are hydrolyzed by water to N-alkyloxaminic acids and alkyl phosphates and react with alcohols to give N-phosphorylated examinic acids.

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USSR

MIRONOV, V. P., SAMARCHENKO, A. T.

"Separation of Homogeneous Groups of Students"

Programmir. obucheniye. Mezhved. nauch. sb. [Programmed Learning. Interdepartmental Scientific Collection], 1973, No 10, pp 33-43 (Translated by the authors)

Translation: An algorithm is studied for grouping of students into statistically homogeneous groups. In stating the problem, it is assumed that each student is characterized by a set of typological characteristics, which are normally distributed. The task of grouping is performed on the basis of the set of all characteristics. The process of grouping consists of two stages: random selection of five elements from the corresponding checking of the grouping criterion. The grouping criterion daries, if the grouping condition is fulfilled with a fixed probability, satisfied with a fixed probability.

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