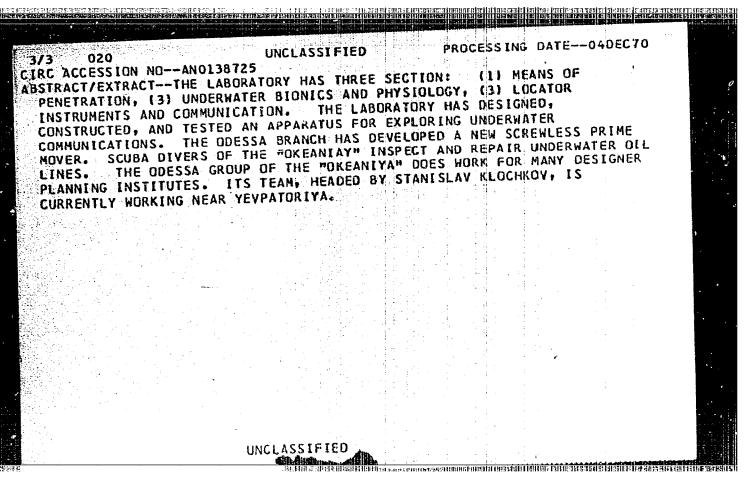


1/3 020 UNCLASSIFIED TIPLE--DIVERS, RESEARCHERS, SPORTSHEN AND MECHANICS -U-PROCESSING DATE--040EC70 AUTHOR-PETRENKO, V. COUNTRY OF INFO--USSR SOURCE--PRAVOA UKRAINY, AUGUST 19, 1970, P 4, COLS 1-7 DATE PUBLISHED-19AUG70 SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--DIVER, UNDERWATER RESEARCH LABORATORY, BIONICS, SCUBA CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/1762 STEP NO--UR/9013/70/000/000/0004/0004 CIRC ACCESSION NO--ANO138725 UNCLASSIFIED

2/3 020 CIRC ACCESSION NO--ANOI38725 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0-PROCESSING DATE--04DECTO "OKEANIYA", IS LOCATED IN KIYEY ON THE ULITSA CHELYUSHKINTSEY. PLATE READS, "THE ACADEMY OF SCIENCES, UK.S.S.R. THE UKRAINIAN THE UKRAINIAN DIVERS CLUB, ASSOCIATION FOR UNDERWATER ACTIVITIES THE "OKEANIYA". BOARD OF DIRECTORS". MEMBERS OF THE CLUB ARE ASSOCIATES OF THE UKRAINIAN ACADEMY, ENGINEERS, TECHNICIANS, WORKERS, DESIGNERS, OR THE REPUBLICAN THE CHAIRMAN OF THE REPUBLICAN BOARD OF DIRECTORS IS VITALLY CARRENARY. THE CLUB OFFERS ITS SERVICES TO HYDROBIOLOGISTS, VLADIMIROVICH BAKROV. GEOLOGISTS, CYBERNETICISTS, HYDROMECHANICS, BIOCHEMISTS, AND WELDERS. ONE GROUP, HEADED BY CANDIDATE OF BIOLOGICAL SCIENCES GEORGIY DONCHENKO, INVESTIGATED THE NORTHERN SECTION OF LAKE BAYKAL FOR THE INSTITUTE OF OCEANDLOGY OF THE ACADEMY OF SCIENCES, U.S.S.R., AND THE LIMNOLOGICAL INSTITUTE OF THE SIBERIAN BRANCH OF THE ACADEMY. ANOTHER GROUP UNDER VIKTOR TVERDOKHLEB WORKED IN THE SEA OF OKHOTSK WHERE THEY TRIED LOW TEMPERATURE DIVING TECHNIQUES AND STUDIED FLORA AND FAUNA. KUZ MENKO, ANATOLIY MOZZHUNKIN, AND THEIR TEAMMATES SPENT THO MONTHS ON THE COMMANDER ISLANDS HELPING THE KAMCHATKA BRANCH OF THE PACIFIC SCIENTIFIC RESEARCH INSTITUTE OF FISHERIES AND OCEANOGRAPHY. IS HELPING GEOPHYSICISTS INVESTIGATING THE ONESTR RIVER ESTUARY, AND SCIENTISTS WHO ARE STUDYING DOLPHINS AT THE HYDROBIONICS BASE OF THE UKRAINIAN ACADEMY, TENDERDYSKAYA KOSA IN THE BLACK SEA. CONTINUES SOME RESEARCH IN THE WHITE AND BARENTSEVO SEAS. LABORATORY FOR UNDERWATER RESEARCH OF THE MOKEANIYAM IS HEADED BY THE THE CENTRAL UNCLASSIFIED



ANO 036660

AUTHOR-- PETRENKO, V.

TITLE-- INSTITUTE OF NUCLEAR RESEARCH

NEWSPAPER-- PRAVDA UKRAINY, APRIL 7, 1970, P 4, COL 1

ABSTRACT-- THE PRESIDIUM OF THE UKRAINIAN ACADEMY OF SCIENCES HAS RESOLVED TO REORGANIZE NUCLEAR DEPARTMENTS OF THE INSTITUTE OF PHYSICS AS THE INSTITUTE OF NUCLEAR RESEARCH IN KIYEV. THE NEW INSTITUTE OF THE UKRAINIAN ACADEMY WILL CONDUCT RESEARCH IN THE AREAS OF NUCLEAR STRUCTURE, MECHANISMS OF NUCLEAR REACTIONS, NEUTRON SPECTROMETRY, NUCLEAR SPECTROMETRY, NUCLEAR ELECTRONICS, NUCLEAR REACTOR PHYSICS, THORIUM FUEL CYCLE, THE EFFECT OF IONIZED RADIATION ON REACTOR MATERIALS, AND ISOTOPE USES.

UNCLASSIFIED PROCESSING DATE--040EC70
TIZE--COMPOSITION FOR PREPARING INVESTMENT CASTING PATTERNS -U-

AUTHOR-(03)-MARKON, L.O., SHEVCHENKO, A.F., PETRENKO, V.A.

COUNTRY OF INFO--USSR

SOURCE-U.S.S.R. 263,816 REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUBLISHED--10FEB70

SUBJECT AREAS-MATERIALS

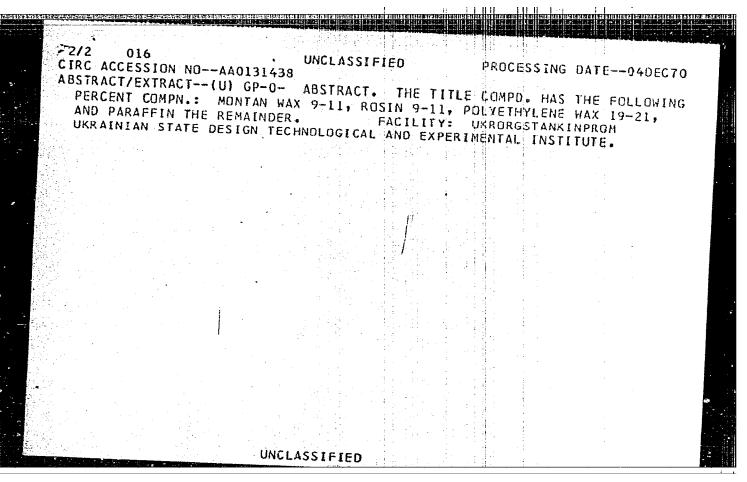
TOPIC TAGS--CHEMICAL PATENT, CHEMICAL COMPOSITION, WAX, METAL CASTING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/0845

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0131438



Analysis and Testing

UDC 669.218-621.775

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BIBINOY, S. A., DZODZIYEV, G. T., VITRYANYUK, V. K., DETRENKO, V. D., UZbek Refractory and Heat-Resistant Metals Combine, Kiev Polytechnic

"Expressed Determination of the Content of Total Carbon in Titanium Carbide" Institute

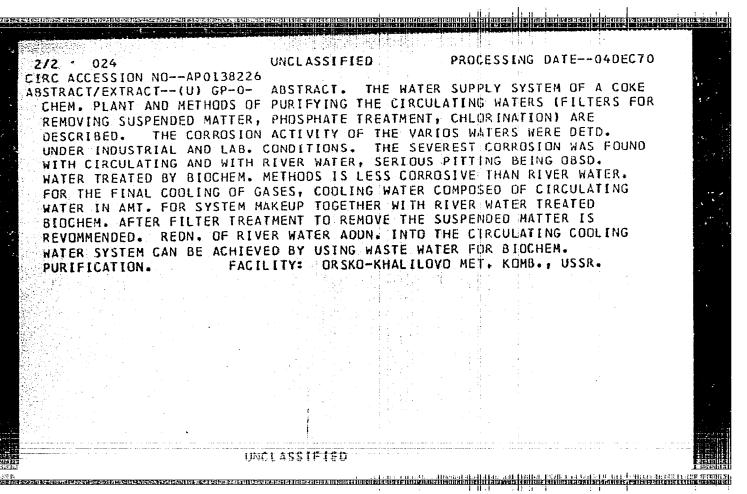
Kiev, Poroshkovaya Metallurgiya, No 6, Jun 72, pp 102-104.

Abstract: The method for determination of the quantity of total carbon in titanium carbide suggested is based on the absorption of soft gamma-radiation by the specimen being analyzed. One of the most important specific features of this method is that the mass absorption factor for soft gamma-radiation is proportional to the fifth power of the atomic number of the absorber. The sensitivity of an experimental model of the device suggested was so great that the carbon content could be determined with an error of not over 0.15%. Three to five minutes are required for analysis. The specimens analyzed are not damaged.

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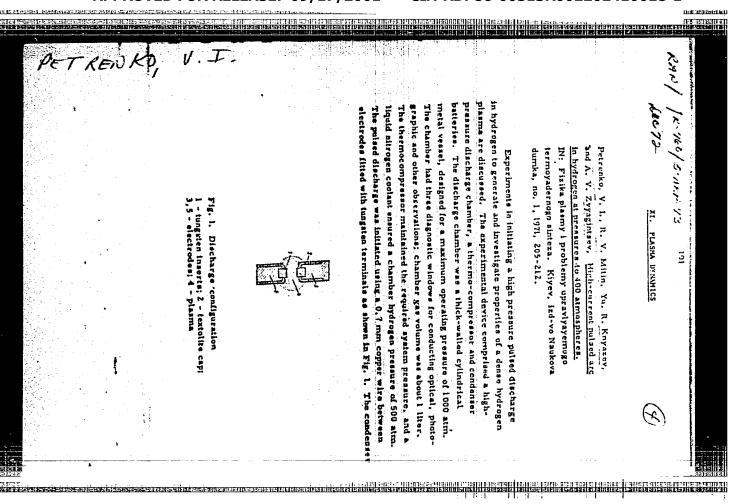
PROCESSING DATE--04DEC70 1/2 . 024 UNCLASSIFIED TETLE-CIRCULATING WATER SUPPLY AND CORROSION OF APPARATUS -U-AUTHOR-103)-PETRENKO, V.G., ANTONOV, A.V., MALUKHINA, V.L. COUNTRY OF INFO--USSR SOURCE-KOKS KHIM. 1970, (5), 49-53 DATE PUBLISHED----70 SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--CORROSION, PHOSPHATE, RIVER WATER, COKE, CHLORINATION, PITTING CORROSION, WATER PURIFICATION, BIOCHEMISTRY CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0068/70/000/005/0049/0053 PROXY REEL/FRAME--3008/1211 CIRC ACCESSION NO--AP0138226 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"



"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R002202410018-1



USSR

UDC 577.1:615.7/9

LIPKAN, G. N., and PETRENKO, V. S.

"Choice of Solvent in Primary Toxicological Evaluation of Chemical Substances"

Fiziol. aktivn. veshchestva. Resp. mezhved. sb. (Physiologically Active Substances. Republic Interdepartmental Collection), 1972, No 4, pp 125-129 (from RZh-Biologicheskaya Khimiya, No 4, Feb 73, Abstract No 4 F1912)

Abstract: The toxicity of various organic solvents - acetone, methyl and ethyl alcohols, ethylene and propylene glycols - was studied in mice injected with these substances intraperitoneally and subcutaneously. The calculated LD50 are the basis of recommended amounts of the solvents that do not have toxic action and that can be used in primary toxicological studies on chemical compounds.

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USSR

VDC 632.95

ODINTSOV, V. S., PETRENKO, V. S., TERTYSHNYY, V. N., KHARSUN, A. I.

"Enzymes -- Targets of Organophosphorous Insecticides in the Metamorphosis of Flies"

Fiziol. aktivn. veshchestva. Resp. mezhved. sb. (Physiologically Active Substances. Republic Interdepartmental Collection), 1972, vyp. 4, pp 26-28 (from RZh-Khimiya, No 2 (II), Feb 73, Abstract No 2N474)

Translation: In order to discover the relation between the activity of esterases and the physiological activity of insecticides with respect to insects a study was made of the nature of the activity dynamics of acetylcholinesterase, carboxylesterase and arylesterase in larvae, pupae and winged houseflies during ontogenesis. The colorimetric hestrine method was used to establish the high activity of the three esterases in the given steps of metamorphosis. The weak physiological activity of organophosphorous compounds in the individual stages of metamorphosis, in particular, the pupae, is explained not by the absence of active enzymes — targets — but by a peculiarity of pupal metamorphosis (a nonfeeding phase) and the physical-chemical properties of the compounds. The necessity for using strongly fumigating organophosphorous insecticides for successful control of the pupae stage of development of insects is demonstrated.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

Byelorussian SSR

UDC 621.73.043

SEVERDENKO, V. P., PETRENKO, V. V., and PETRENKO, S. I.

"On the Dimensions of Mosaic Units in Steel Types 20 and Khi8N1OT after Ultrasonic Working"

Minsk, Vestsi Akademii Navuk BSSR, Series on Physical-Technical Sciences, No 2, 1973, pp 14 - 16

Abstract: The authors deformed samples of No 20 low-carbon steel and Khi3N10T stainless steel with dimensions of 6 x 9 millimeters in a 5-ton press, both without the application of ultrasonics and with ultrasonics at a natural resonant frequency of 19 kilohertz and intensities of 50, 650, and 700 watts per square centimeter. X-ray methods were then used to determine the dimensions of mosaic units in the centers of the samples. As expected, the dimensions of these units decreased with increasing deformation. However, the decreases were less as greater amounts of ultrasonic energy were applied. There was also a significant decrease in the crystal lattice defects of the alloys subjected to ultrasonic energy, which deformation process have linear dimensions smaller than the dimensions of the mosaic units, so that there is less elastic deformation of volume elements when obstructions are encountered.

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UDC 547.944/945 + 541.138

UDOVIKO, YE. A., POKHMELKINA, S. A., and PETRENKO, V. V., Zaporozhe State Medical Institute

"Electrochemical Extraction of Tropan Alkaloids From the Plant Material"

Tashkent, Khimiya Prirodnykh Soyedineniy, No 3, 1972, pp 334-336

Abstract: Electrochemical method was used for isolation of tropane group of alkaloids from Altropa Belladonna (Z.), Datura Stramonium (Z.), and Scopolia Carniolica (obreru). During electrolysis of these extracts tropane alkaloids accumulate in the liquid around the cathode, the area becomes alkaline, the pH changing from 6 to 11, retarding the accumulation of alkaloids. Therefore the medium has to be acidified, to get complete extraction. No accumulation of the alkaloid is observed in the liquid around the cathode without the application of current (by dialysis alone). The alkaloid content in the cathode liquid depends on the duration of the electrolysis increasing with time — and is inversely proportional to current density; the optimal current densities for the process are rather low, ranging from 10 to 30 a/m².

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1/2 060 UNCLASSIFIED PROCESSING DATE--27NOV7O
TITLE--CHANGE IN THE DUCTILITY AND MICROHARDNESS OF PARTS STAMPED AFTER

ULTRASONIC TREATMENT -UAUTHOR-(02)-SEVERDENKO, V.P., PETRENKO, V.V.

COUNTRY OF INFO--USSR

SOURCE--IZVEST. AKAD. NAUK BELORUSS. SSR, 1970, (FIZ. TEKHN.), (1), 86-87

SUBJECT AREAS -- MATERIALS, MECH., IND., CIVIL AND HARINE ENGR, PHYSICS

TOPIC TAGS--METAL MICROHARDNESS, DUCTILITY, ULTRASONIC IRRADIATION, RADIATION EFFECT, COPPER, METAL STAMPING

CONTROL MARKING--NO RESTRICTIONS

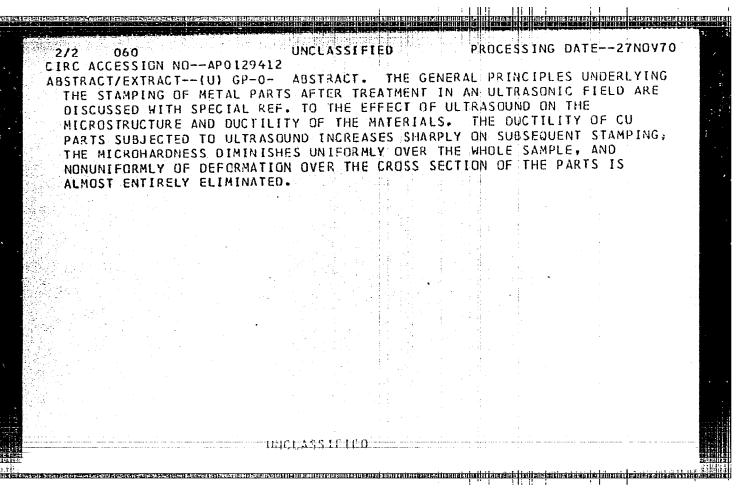
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0156

STEP NO--UR/0201/70/000/001/0086/0087

CIRC ACCESSION NO--APO129412

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"



UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--INHIBITION OF MARTENSITIC TRANSFORMATION IN STEEL KHIBN10T DURING
PLASTIC DEFORMATION WITH SUPERIMPOSED ULTRASONIC VIBRATIONS -UAUTHOR-(03)-SEVERDENKO, V.P., PETRENKO, V.V., PETRENKO, S.I.
COUNTRY OF INFO--USSR
SUURCE--DOKL. AKAD. NAUK BELORUSS. SSR 1970, 14(2), 122-4

DATE PUBLISHED----70

SUBJECT AREAS -- MECH., IND., CIVIL AND MARINE ENGR, MATERIALS

TOPIC TAGS--PLASTIC DEFORMATION, STAINLESS STEEL, ULTRASORIC VIBRATION, ALLOY DESIGNATION, MARTENSITIL TRANSFORMATION, METALLOGRAPHY, MAGNETIC SATURATION, FERROMAGNETISM/(U)KHINNIOT STAINLESS STEEL

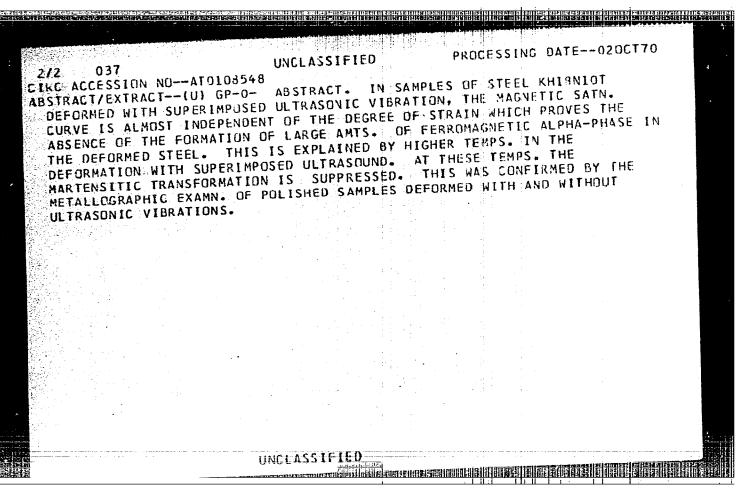
CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/0224

STEP NO--UR/0250/T0/014/002/0122/0124

CIRC ACCESSION NO--AT0103548

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KARANFILOV, N. I., Chairman of Kolkhoz imeni M. V. Frunze, Ovidiopol'skiy Rayon, Odesskaya Oblast, Honored Veterinarian, Ukrainian SSR, FAYTEL'BERG, R. Q., Doctor of Medical Sciences, TKACHENKO, G. P., Candidate of Biological Sciences, Senior Scientific Associate, Odessa State University imeni M. I. Sciences, Senior Scientific Associate, Odessa State University imeni M. I. Mechnikov, MEDVEDEVA, Ye. I., Doctor of Biological Sciences, PANCHENKO, Mechnikov, Medvedeva, Ye. V., LUKINA, G. D., Senior Engineers, BOYKO, L. I., and SELICH, 12. F., Engineers, Odessa Technological Institute of the Food Industry imeni M. V. Lomonosov

"The Effect of a Preparation Obtained From Algae (Phyllophora) Upon the Weight Gains and Blood Composition of Calves"

Moscow, Zhivotnovodstvo, No 3, Mar 72, pp 82-83

Abstract: A valuable preparation containing amino acids and peptides has been developed from industrial Phyllophora waste by the Odessa Technological Institute of the Food Industry (Author's Certificate No 287959). Employed as a fodder supplement, 4.5 kg of the preparation yield an incremental weight gain of 11.43 kg, in other words, 2.54 kg of meat for each kilogram of the preparation, which costs less than 30 kopeks. The erythrocyte number of the calves increases, as does the hemoglobin content and the total protein content. Additional testing is recommended.

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TITLE—REFINING OF LINSEED DIL -U—

AUTHOR—(05)—ARTYUNYAN, N.S.. ARISHEVA, YE.A., LITVINOVA, YE.D., PETRENKO,

YU—A— MNUKHIN, U.YU.

CCUNTRY OF INFO—USSR

SOURCE—MASLO—ZHIR. PROM. 1970, 36(3), 19-21

DATE PUBLISHED————70.

TOPIC TAGS--WOOD CHEMICAL PRODUCT, CHEMICAL PURIFICATION, OPTIC PROPERTY,

CONTROL MARKING--NO RESTRICTIONS

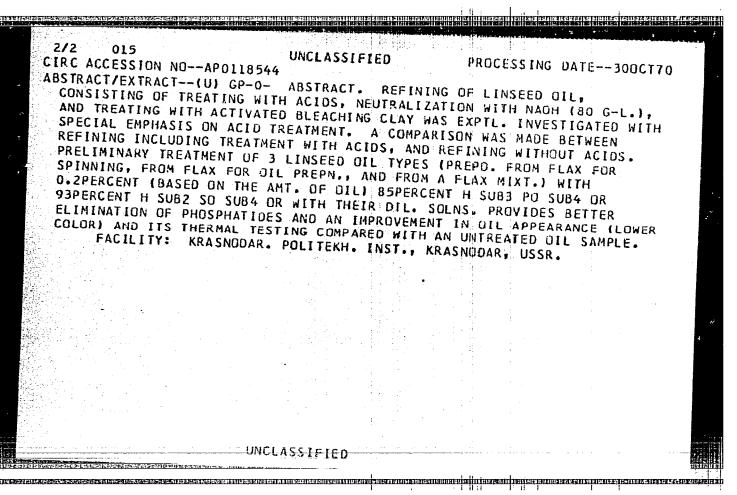
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1561

STEP NO--UR/9085/70/036/003/0019/0021

CIRC ACCESSION NO--APOII8544

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II. Combinatory Analysis and Graph Theory

A. General Combinatory Analysis Theory

USSR

PETRENYU, A. Ya.

"Non-Isomorphicity Characteristics of Systems of Steiner Triads"

Ukr. Mat. Zh. [Ukrainian Mathematics Journal], 1972, Vol 24, No 5, pp 772-780 (Translated from Referativnyy Zhurnal Kibernetika, No 4, 1973, Abstract No 4V398, by the author).

Translation: A method is suggested for construction of systems of Steiner triads, consisting in that the set of triads present in a given system is replaced by a set equivalent to it in its content of pairs of elements of the main set. Furthermore, a method is described for establishing the nonisomorphicity of systems of Steiner triads using tables of invariants. 20 biblio. refs.

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USSR

UDC: 519.1

KOPYLOVA, A. N., PETRENYUK, A. Ya.

"Combinatorial Mathematics at Moscow State University"

Moscow, Kombinator. analiz--sbornik (Combinatorial Analysis--collection of works), vyp. 2, 1972, pp 106-109 (from RZh--Kibernetika, No 5, May 73, abstract No 5V412)

Translation: A report on a research seminar in combinatorial analysis which has been in progress for the last few years at Moscow State University under the direction of K. A. Rybnikov. Titles and brief annotations are given on some of the reports made in 1970-1972.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

USSR

NEPOROZHNEV, I. P., PETRENYUK, A. Ya.

"Constructive Denumeration of Systems of Groups of Pairs and Subdivided Systems of Steiner Triads"

Kombinator. Analiz. [Combinatorial Analysis -- Collection of Works], No 2, Moscow, 1972, pp 17-37 (Translated from Referativnyy Zhurnal Kibernetika, No 6, 1973, Abstract No 6V335, by V. Tarakanov).

Translation: A system of groups of pairs $\mathbb{I}_{2\mu}$ of order 2μ refers to a subdivision of the set of disordered pairs of elements from set F of thickness 2μ into groups of pairs such that each element from F belongs to exactly one pair of each group. An algorithmic method of construction of all systems of nonisomorphic groups of pairs of a fixed order is described; the systems of groups of pairs $\mathbb{I}_{2\mu}$ and $\mathbb{I}_{2\mu}^{\prime}$, constructed in sets F and F' respectively, are called isomorphic if there is a mutually unambiguous correspondence $\phi:F \to F'$, for which each group of pairs $\mathbb{I}_{2\mu}$ corresponds to a certain group of pairs from $\mathbb{I}_{2\mu}^{t}$. The basic tools used in this construction are the tables of invariants and diagrams introduced by the authors. If $\mathbb{I}_{2\mu}$ consists of the

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Neporozhnev, I. P., Petrenyuk, A. Ya., Kombinator. Analiz., No 2, Moscow, 1972, pp 17-37.

systems $\Sigma_1,\dots,\Sigma_{2\mu-1}$, graph G_{ij} is constructed, the points of which are elements from F, while the lines are elements from $\Sigma_i \cup \Sigma_j$ ($i \neq j, 1 \leq i$, $j \leq 2\mu-1$). This graph is nothing other than a set of nonintersecting cycle. The type of interweaving of groups of pairs Σ_i and Σ_j refers to the symbol Σ_1,\dots,Σ_m , where $0 < S_1 < \dots < S_m, \Sigma_i > 0$, $i=1,\dots,m$; this symbol expresses the fact that G_{ij} consists of K_i cycles of length K_i cycles of the invariant table for certain set of groups of pairs is a full summary of the types of interweavings of each of the groups of pairs in the given set with all others. Obviously, two sets with different invariant tables are not isomorphic. However, coincidence of invariant tables still does not provide isomorphism of two sets of groups of pairs. Therefore, in the case of coincidence, a more precise method of differentiation is used -- the method of diagrams, which transform one into another, if the systems of groups of pairs are isomorphic. A list (incomplete) is presented of 120 systems \mathbb{I}_{10} of groups of pairs of order 10, not isomorphic in pairs, produced by application of the method found by the authors. Applications are also indicated,

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Neporozhnev, I. P., Petrenyuk, A. Ya., Kombinator. Analiz., No 2, Moscow, 1972, pp 17-37.

in the calculation of nonisomorphic systems of Steiner triads Δ_{2t+1} of order 2t+1, each containing a subsystem of Steiner triads Δ_t or order t (such systems of triads are called subdivided).

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1/2 009 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--ON THE COLOURATION OF A TORUS LATTICE -U-

AUTHOR-PETRENYUK, A.YA.

COUNTRY OF INFO--USSR

SOURCE-VESTNIK MOSKOVSKOGO UNIVERSITETA, MATEMATIKA, MEKHANIKA, 1970, NR 1, PP 3-7
DATE PUBLISHED-----70

SUBJECT AREAS -- MATHEMATICAL SCIENCES

TOPIC TAGS -- MATRIX FUNCTION, SEQUENCE, COLOR

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1996/0566

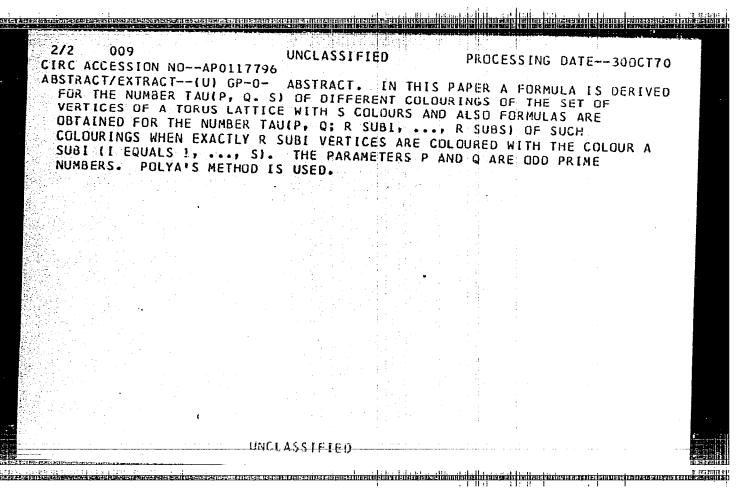
STEP NO--UR/0055/70/000/001/0003/0007

CIRC ACCESSION NO--APO117796

UNCLASSIFIED

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UDC 616.993.192.1-021.5-085.357.453.015.2:615.282.612.1/-07:/616.45+616.839-008./

PETRENYUK, L. E., Chair of Hospital Therapy, Lugansk Kedical Institute "Treatment of Patients With Chronic Aquired Toxoplasmosis"

Moscow, Klinicheskaya Meditsina, Vol 49, No 4, Apr 71, pp 116-121

Abstract: Treatment with chemotherapeutics is not sufficiently effective in chronic acquired toxoplasmosis. Hospital therapy was applied for 1 month in which treatment with pipolphen, chloridine, sulfadimezin, and vitamins B. B., and C was combined with the administration of texoplasmin and prediction. During the subsequent 3-4 mos, ambulatory treatment with pipolphen, toxoplasmin, delagil (quingamine) instead of prednisolone, and multivitamins was applied. As distinguished from conventional therapy with chloridine, sulfadimezin, and vitamins, the treatment comprising administration of prednisolone and toxoplasmin completely restored the functioning of the adrenal cortex and the sympathic-adrenal system. The patients treated by the new method experienced a marked subjective improvement and, in the majority of cases, showed negative results in the toxoplasmin allergy test and the complement fixation reaction.

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USSR

VDC 669.18:669.046.5

MELEZHIK, V. D., PETRICHENKO, A. G., KHITRIK, S. I., LYSENKO, I. V., and POLYANSKIY, V. I.

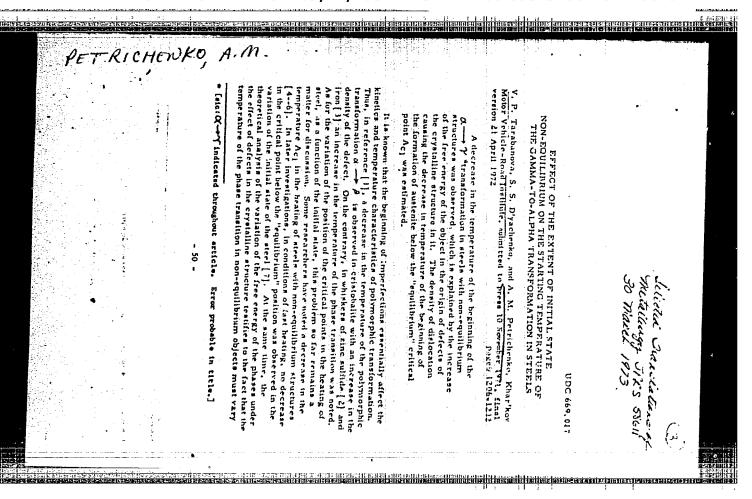
"Investigation of Ferrosilicon From Kaolins for Deoxidation of Pipe Steel"

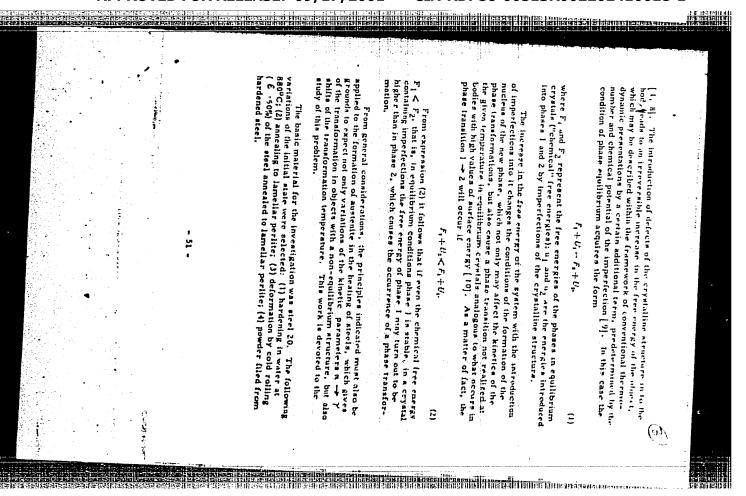
Dnepropetrovsk, Metallurgicheskaya i Gornorudnaya Promyshlennost', No 5, Sep-Oct 70, pp 15-16

Abstract: Data are given on the use of ferrosilicon from kaolin for the deoxidation of low-carbon pipe steels. The procedure for the production of ferrosilicon from secondary kaolins from the Cherkasek region of the Ukrainian SSR, and experimental meltings in 300-ton-capacity Martin furnaces using ferrosilicon for preliminary deoxidation reduce the expenditure of carbon ferromanganese and 45% ferrosilicon, thus reducing the cost of melting steel. In spite of the high phosphorus content in kaolin ferrosilicon (03%), its use does not increase the phosphorus content in the metal. Steel deoxidation by kaolin ferrosilicon does not involve additional contamination by mommetallic impurities.

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USSR

UDC 669.71.042.6

LIKHACHEV, R. B., PETRICHENKO, A. M.

"Kinetics of Shrinkage of Aluminum Alloys in Liquid and Liquid-Solid States"

Usadochn. protessy v splavakh i otlivkakh -- V sb. (Shrinkage Processes in Alloys and Castings -- collection of works), Kiev, Naukova Dunka Press, 1970, pp 251-253 (from RZh-Metallurgiya, No 4, Apr 71, Abstract No 4G190)

Translation: A study of alloy shrinkage and also the development of measures to control defects of shrinkage origin are basic areas in the theory and alloys during the crystallization process is discussed. There are 2 illustrations.

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UDC 669.71.042.6

PETRICHENKO, A. M., KRYLOV, V. I.

"Effect of the Thermal State of the Metal Die Pressure Cast Mold on Shrinkage and Dimensions of Castings from Aluminum Alloys"

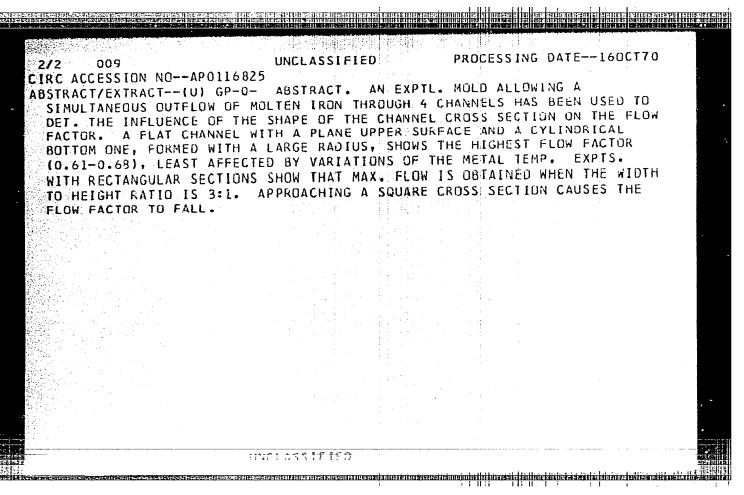
Usadochn. protessy v splavakh i otlivkakh -- V sb. (Shrinkage Processes in Alloys and Castings -- collection of works), Kiev, Naukova dumka Press, 1970, pp 304-306 (from RZh-Metallurgiya, No 4, Apr 71, Abstract No 4G184)

Translation: The thermal operation of a metal die pressure cast mold is described on the basis of research results. The optimal conditions are determined for it from the point of view of improving precision of the castings and insuring high output capacity of the pressure casting machines. There are 2 illustrations.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

1/2 009 UNCLASSIFIED TITLE--DEPENDENCE OF THE CAST IRON FLOW FACTOR ON THE GEOMETRY OF CASTING PROCESSING DATE--160CT70 CHANNELS OF A MOLD -U-AUTHOR-104)-PETRICHENKO, A.M., GLIZER, Z.KH., GOLDMAKHER, P.E., LUKASHCHUK, T.I. COUNTRY OF INFO--USSR SOURCE--LITEINOE PROIZVOD. 1970, 2, 30-1 DATE PUBLISHED ---- 70 SUBJECT AREAS -- MATERIALS, MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--CAST IRON, FOUNDRY TECHNOLOGY, FERROUS LIQUID METAL CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1995/1376 STEP NO--UR/0128/70/002/000/0030/0031 CIRC ACCESSION NO--APOI16825 UNCLASSIFIED. are energy and a resolution of a contract and a contract and a property of the contract and a co



1/2 024 UNCLASSIFIED PROCESSING DATE--18SEP70

AUTHOR-(03)-PETRICHENKO, A.M., VERETNIK, L.D., RYUMIN, G.V.

COUNTRY OF INFO--USSR

SOURCE--SVAR. PROIZVOD. 1970, (1), 43

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--WELDING ELECTRODE, WEAR RESISTANT FERROUS ALLOY, HIGH CARBON STEEL, ALLOY STEEL, FERROUS WELD HEAT TREATMENT, CHROMIUM STEEL, SILICON STEEL/(U)110 WELDING ELECTRODE

CONTROL MARKING--NO RESTRICTIONS

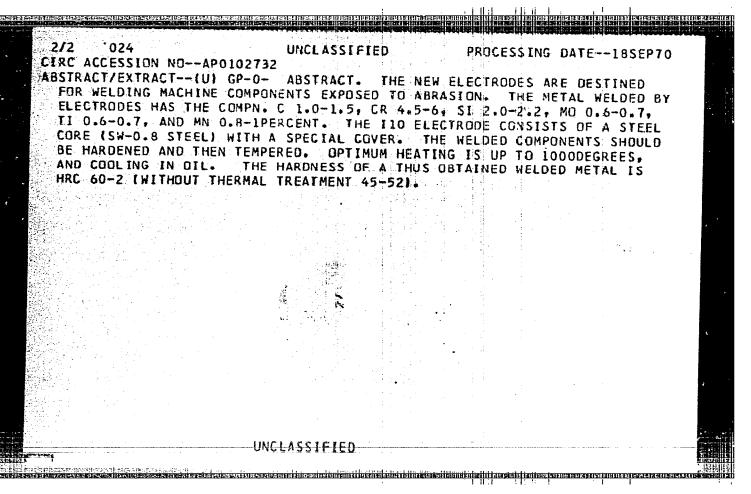
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0769

STEP NO--UR/0135/70/000/001/0043/0043

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CIRC ACCESSION NO--APO102732

UNCLASSIF!ED



USSR

UDC 620.179.18

KHEYFETS, YU. I., PETRIK. A. A.

"Nondestructive Control of the Depth of the Nitrated Layer in Nonmagnetic Steels"

Sverdlovsk, Defektoskopiya, No 1, 1972, pp 130-132

Abstract: A newly developed method for the nondestructive control of a nitrided layer of nonmagnetic steels was investigated on valve stems (14 mm in diameter) of 4Khl4Nl4V2M steel. The control device consists of a modified IE-1 electric conductivity meter. A diagram shows the control of valves for 40-150/4A indicator readings as a function of 0.04-0.15-mm nitrided layer depths. A great number of control checkings revealed that the error did not exceed 0.01 mm of the nitrided layer depth values determined metallographically. 3 illustrations, 7 bibliographic references

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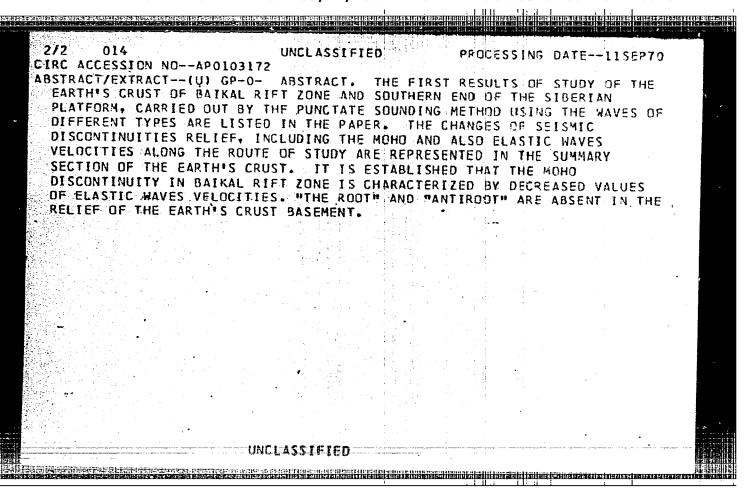
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UNCLASSIFIED PROCESSING DATE--11SEP70 TITLE-THE FIRST RESULTS OF DEEP SEISMIC SOUNDING IN THE BAIKAL RIFT ZONE -U- ·_ · AUTHOR--KRYLOV, S.V., MISHENKIN, B.P., KRUPSKAYA, G.V., PETRIK, G.V., YANUSHEVICH, T.A. COUNTRY OF INFO--USSR SOURCE--GEOLOGIYA I GEOFIZIKA 1970, NR 1 (121) PP 84-91 DATE PUBLISHED ---- 70 SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY TOPIC TAGS--SEISMIC SOUNDING, EARTH CRUST, SEISMIC WAVE, MOHOROVICIC DISCONTINUITY, ELASTIC HAVE CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0210/70/000/001/0084/0091 PROXY REEL/FRAME--1986/1290 CIRC ACCESSION NO--AP0103172 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

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1/2 049 UNCLASSIFIED PROCESSING DATE--13NOV70 TITLE--OZHEZKAZGAN ORBITA STATION NOW EQUIPPED TO RECEIVE COLOR TV -U-

AUTHOR-PETRIK, K.

COUNTRY OF INFO--USSR

SOURCE--MUSCOW, IZVESTIYA, 7 MAY 1970, P 3

DATE PUBLISHED--07MAY70

SUBJECT AREAS -- NAVIGATION, SPACE TECHNOLOGY

TOPIC TAGS--SPACE COMMUNICATION SITE, COMMUNICATION SATELLITE, GROUND COMMUNICATION EQUIPMENT, COLOR TV, COMMUNICATION NETWORK/IU/ORBITA

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3004/1721

STEP NO--UR/9003/70/000/000/0003/0003

CIRC ACCESSION NO--ANOI31987

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USSR

UDC: 621.3.0888

VALITOV, R. A., BUYNYAVICHYUS, V. V., PETRIKIS, S. S.

"Correlation Measurements and Experimental Determination of Errors"

Dokl. Vses. nauchno-tekhn. konferentsii po radiotekhn. izmereniyam. T. 3 (Reports of the All-Union Scientific and Technical Conference on Radio Engineering Measurements. Vol. 3), Novosibirsk, 1970, pp 29-31 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1A300)

Translation: The authors note the importance of correlometers and the necessity for checking their errors with respect to three types of measurements: 1) the coefficient of mutual correlation in the case of zero delay; 2) determination of the correlation function or its envelope; 3) determination of decorrelation. A block diagram is given of a two-channel signal generator for determining errors of the first and third types. A method is also given for determining errors of the second type, a process which is in general more complicated than for the other types. E. L.

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1/2 014
TITLE—PROTULYTIC REACTIONS AND ANALYTICAL PROPERTIES OF PHENYLANTHRANILIC

AUTHOR-(04)-FRUMINA, N.S., PETRIKOVA, K.G., TREGUB, YE.G., PLETNEY, S.V.

CCUNTRY OF INFO-USSR

SOURCE-ZH. ANAL. KHIM. 1970, 25(3), 434-9

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--ABSORPTION SPECTRUM, PROTON, AMINE, BENZOIC ACID, BENZENE DERIVATIVE

CENTREL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1127

STEP NO--UR/0075/70/025/003/0434/0439

CIRC ACCESSION NO--APO128554

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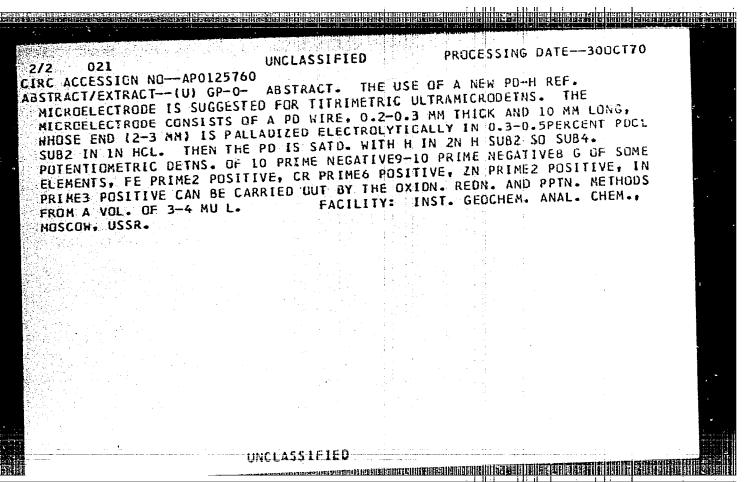
2/2 014 UNCLASSIFIED PROCESSING DATE--- 20NOV70 CIRC ACCESSION NO--AP0128554 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE EXISTENCE LIMITS OF MOL. AND IONIZED FORMS OF PHENYLANTHRANILIC ACID (I) WERE ESTABLISHED BY STUDYING THE ABSORPTION SPECTRA OF I. THE REDOX POTENTIAL OF I WAS MEASURED OVER A WIDE ACIDITY RANGE AND ITS CHANGE IN RELATION TO THE PROTOLYTIC I REACTIONS WAS ESTABLISHED. DURING PROTUNATION, THE P ELECTRONS OF THE N ATOM ARE IMMUBILIZED, RESULTING IN A CHANGE IN THE SPECTRUM. COMPARISON OF THE SPECTRA OF PH SUB2 NH AND I INDICATE THAT THE LONG WAVE BAND IN THE SPECTRUM OF THE LATTER IS LINKED TO THE PRESENCE OF AN ELECTRON ACCEPTOR SUESTITUENT, THE CARBOXYLIC GROUP, AND THE GRADUAL DISAPPEARANCE OF THIS BAND DURING PROTOLYSIS INDICATES A CHANGE IN THE ELECTRON DISTRIBUTION IN THE MOL. AS A RESULT OF THE FORMATION OF A 2ND ELECTRON ACCEPTING GROUP (PROTONIZED N). THE SOLY. DATA AND ABSORPTION SPECTRA WERE USED TO CALC. THE ACID DISSOCN. AND THE PROTONATION CONSTS. OF 1: PK SUBDISSOLN. 3.99 PLUS OR MINUS 0.028 AND PK SUBPROT MINUS 1.35 PLUS CR MINUS 0.065, RESP. FACILITY: SARATOV STATE UNIV. SARATUV, USSR.

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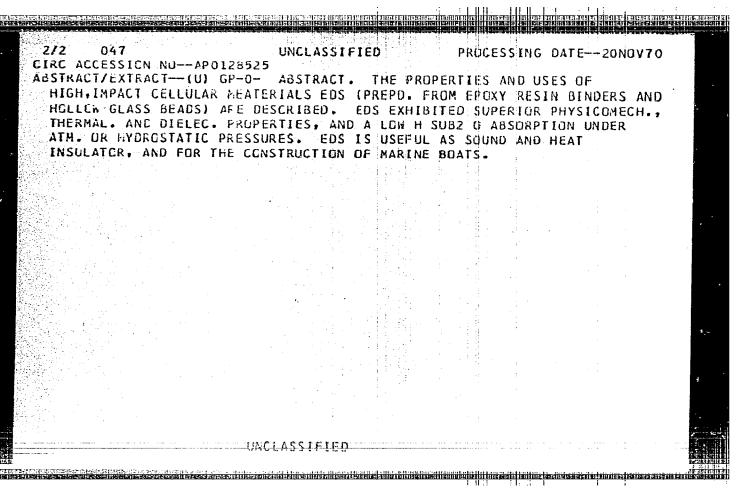
021 UNCLASSIFIED TITLE--ULTRAMICROMETHODS OF CHEMICAL ANALYSIS. 12. REFERENCE PALLADIUM PRUCESSING DATE--- 300CT70 HYDROGEN MICROELECTRODE FOR TITRIMETRIC DETERMINATIONS -U-AUTHOR-(02)-ALIMARIN, I.P., PETRIKOVA, M.N. COUNTRY OF INFO-USSR SOURCE-ZH. ANAL. KHIM. 1970, 25(2), 213-15 DATE PUBLISHED----70 SUBJECT AREAS-CHEMISTRY TOPIC TAGS-CHEMICAL ANALYSIS, PALLADIUM, METAL ELECTRODE, HYDROGEN, POTENTIOMETRIC TITRATION, ZINC, IRON, CHROMIUM, INDIUM CONTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2180 STEP NO-UR/0075/70/025/002/0213/0215 CIRC ACCESSION NO--APO125760 UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE-- 20NOV70 TITLE--CELLULAR MATERIALS BASED ON HOLLOW GLASS MICROSPHERES AND POLYMER BINDERS -U-AUTHUR-(C3)-KRASNIKOVA, I.V., PETRILENKOVA, YE.B., PARSHINA, N.K. CCUNTRY OF INFO--USSR SOURCE-PLAST. MASSY 1970, (3), 45-6 DATE FUBLISHED ------ 70 SUBJECT AREAS - MATERIALS, MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--IMPACT STRENGTH, EPOXY RESIN, POLYMER BINDER, GLASS, DIELECTRIC PROPERTY, PLASTIC MECHANICAL PROPERTY, INSULATING MATERIAL. SHIPBUILDING ENGINEERING CENTROL MARKING-NO RESTRICTIONS DECUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3002/1098 STEP ND--UR/0191/70/000/003/0045/0046 CIRC ACCESSION NO--APO128525

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

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PROCESSING DATE--300CT70

TITLE--PROPERTIES OF THE OLIGOESTER ACRYLATE MGF-9 HARDENED WITHOUT AUTHOR-(03)-PETRILENKOVA, YE.B., ORLOVA, L.V., STRIKOVSKAYA, G.G.

COUNTRY OF INFO--USSR

SOURCE--PLAST. MASSY 1970, (2), 48-9

DATE PUBLISHED ---- 70

SUBJECT AREAS -- AERONAUTICS

TOPIC TAGS-PHYSICAL CHEMISTRY PROPERTY, GLASS FIBER, REINFORCED PLASTIC, FOAM PLASTIC, P LASIC CONCRETE, CHEMICAL REACTION RATE, POLYMERIZATION, PEROXIDE, CATALYST, ESTER, POLYMER BINDER/(U)MGF9 BINDER FIBER GLASS PLASTIC

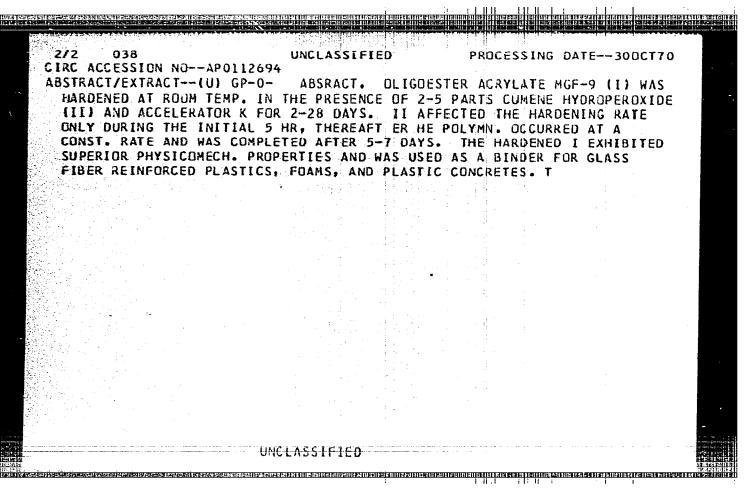
CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1700

STEP NO--UR/0191/70/000/002/0048/0049

GIRC ACCESSION NO--APO112694

UNCLASSIFIED



USSR

UDG 678.643:42:5-405.8.01:53

KRASNIKOVA, T. V., PETRILENKOVA, E. B., PARSHINA, N. K. (Deceased)

"Foam Materials Composed of Hollow Glass Microspheres and Poly-

Moscow, Plasticheskiye Massy, No 3, 1970, pp 45-46

Abstract: Small hollow glass microspheres covered with EDS-6 or EDS-7 epoxy resin binder allowing thorough adhesion of all microspheres in one solid mass were developed as a water resistant foam material. The above resins are strong, water resisting cements, while other resins, such as EDS-5, contain hydroxyl groups and are hydrophyilic. The resin covered microspheres are very hydrostatic, even under considerable pressure. They can be used as gas containers and sound proofing material, and they can satisfy many aquatic needs.

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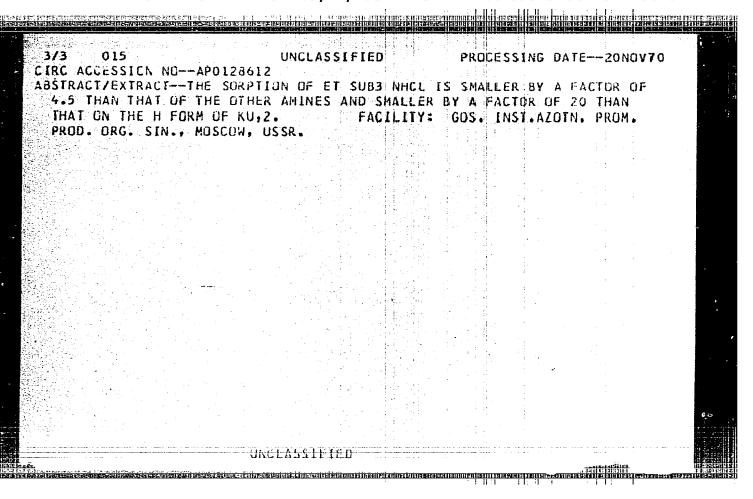
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UNCLASSIFIED TITLE-EFFECT OF NUNAQUEOUS SOLVENT ON THE EXCHANGE ADSORPTION OF PROCESSING DATE--- 20NOV70 ALIPHATIC AMINES -U-AUTHOR-(C2)-PETRISHCHEV. K.P., DAVYDOV, A.T. CCUNTRY OF INFO--USSR SCURCE-ZH. FIZ. KFIM. 1970, 44(2), 499-503 DATE PUBLISHED----70 SUBJECT AREAS-CHEMISTRY TEPIC TAGS--AESCRPTION, ALIPHATIC AMINE, ION EXCHANGE RESIN, METHANDL, SOLVENT ACTION/(U)KUZ IEN EXCHANGE RESIN CENTRGL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-3002/1194 STEP NO--UR/0076/70/044/002/0499/0503 GIRC ACCESSION NO--APOL28612 - UNGLASSIFIED

2/3 015 UNCLASSIFIED GIRC ACCESSION NO--APO128612 PROCESSING DATE--- 20NOV70 ABSTRACT/EXTRACT-(U) GP-0-ABSTRACT. IN STATE CONDITIONS THE EXCHANGE SCRPTION OF NH SUB4 PRIME POSITIVE, MENH SUB3 PRIME POSITIVE, MENH SUBZ PRIME POSITIVE, ME SUG2 NH PRIME POSITIVE, HOCH SUB2 CH SUB2 NH SUB3 PRIME POSITIVE. AND ET SUB3 NH PRIME POSITIVE FROM MECH AND AQ. SULNS. OF CERRESPENDING CHECKIDES ON THE CATION EXCHANGER KU, 2 IN THE H AND CA FORMS WAS STUDIED. THE SOLNS. OF CONCNS. OF 0.01-0.1 N WERE USED. THE ION EXCHANGE EQUIL. WAS ESTABLISHED IN AQ. OR MECH SOLMS. DURING 48 OR 240 HR, RESP. A MAJOR EFFECT OF THE CHEM. NATURE OF A SOLVENT USED ON THE VALUE OF THE EXCHANGE ADSORPTION IN COMPARISON WITH PHYS. PROPERTIES DE A SCLVENT IS DEMONSTRATED. AT THE EXCHANGE IN NECH SOLMS. ON H OR CA FORMS OF THE CATION EXCHANGER KU, 2 THE FOLLOWING ADSORPTIVITY SERIES WERE FOUND: HOCH SUB2 CH SUB2 NH SUB3 PRIME POSITIVE EQUALS ME SUB3 NH PRIME POSITIVE LARGER THAN MENH SUB3 PRIME POSITIVE LARGER THAN NH SUB4 PRIME POSITIVE ME SUB2 NH SUB2 PRIME POSITIVE LARGER THAN ET SUB3 NH PRIME POSITIVE, OR MENH SUB3 PRIME POSITIVE LARGER THAN ME SUB2 NH SUB2 PRIME POSITIVE LARGER THAN ME SUB3 NH PRIME POSIFIVE EQUALS NH SUB4 PRIME POSITIVE LARGER THAN HOCH SUB2 CH SUB2 NH SUB3 PRIME POSITIVE LARGER THAN ET SUB3 NH PRIME PUSITIVE, RESP. AT THE SAME TIME, VALUES OF THE EXCHANGE ADSORPTION IN MEDH AND AQ. SOLN. ARE VERY SIMILAR FOR THE CASE OF THE H FORM SOLN. OF KU, 2 WHILE ON THE CA FORM OF KU, 2 THE SORPTION FROM MECH IS SMALLER BY A FACTOR OF 2 THAN THAT FROM AQ. SOLNS. THIS DIFFERENCE IS CAUSED BY THE DIFFERENT DIMENSIONS OF SOLVATED AND HYDRATEC CATIONS.

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1/2 013

PROCESSING DATE--230CT70

TITLE--PREPARATION OF METHANOL WITH LOW ELECTRICAL CONDUCTIVITY -U-AUTHOR-(03)-PETRISHCHEV, K.P., KARAYEV, M.M., DAVYDOV, A.T.

COUNTRY OF INFO--USSR

nd Division

SOURCE-KHIM. PROM. UKR. 1970, (2), 22-4

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS -- METHANOL, ELECTRIC CONDUCTIVITY, FILTRATION, CATION EXCHANGE RESIN, ANION EXCHANGE RESIN/(U)KUZ ION EXCHANGE RESIN, (U)AVIT ION

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0750

STEP NO--UR/0436/70/000/002/0022/0024

CIRC ACCESSION NO--APOL19657

UNCLASSIFIED

013 UNCLASSIFIED CIRC ACCESSION NO--AP0119657 PROCESSING DATE--230CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. MEOH OF HIGH PURITY AND LOW ELEC. COND. WAS OBTAINED BY FILTRATION OF COM. MECH THROUGH H. FORM CATIONITE KU, 2, AND THEN THROUGH THE OH, FORM OF ANIONITE AV, 17 OR THROUGH A MIXT OF BOTH. THE COND. DECREASED FROM 8 TIMES 10 PRIME NEGATIVE? TO 5.0 TIMES 10 PRIME NEGATIVES OHM PRIME NEGATIVE1 CM PRIME NEGATIVE1. ESTER AND ALDEHYDE CONTENT DIMINISHED BY SOPERCENT, THE AMT. OF N CONTG. COMPDS. WAS REDUCED FROM 0.68 TO 0.01 MG-L. AND OF VOLATILE FE COMPDS. FROM 0.038. TO 0.012 MG-L. FACILITY: SEVERODONETSK, FILIAL, GIAP. SEVERODONETSK, USSR. UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--17JULTO
TITLE--REMOVAL OF NITROGEN CONTAINING COMPOUNDS FROM METHANGL. I.
PHYSICOCHEMICAL PROPERTIES OF SOME CATION EXCHANGERS IN METHANOL -UAUTHOR--KARAVAYEV, M.M., PETRISHCHEV, K.P.

COUNTRY OF INFO-USSR

SCURCE-ZH. PRIKL. KHIM. (LENINGRAD) 1970, 43(1), 145-50

DATE PUBLISHED----7C

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS-CHEMICAL SEPARATION, PHYSICAL CHEMISTRY PROPERTY, METHANCL, CATION EXCHANGE PROPERTY, CHEMICAL STABILITY, ABSORPTION, ORGANIC NITROGEN COMPOUND/(U)KUL CATION EXCHANGE RESIN, (U)KU6 CATION EXCHANGE RESIN, (U)KB4 CATION EXCHANGE RESIN, (U)SG1 CATION EXCHANGE RESIN, (U)KU6 CATION EXCHANGE RESIN CATION EXCHANCE RESIN CATION EXCHANCE RESIN CATION EXCHANCE RESIN CATION EXCHANCE RESIN CATION EXCHANCE

CENTROL MARKING--NE RESTRICTIONS

DECUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1980/0980

STEP NO--UR/0080/70/043/001/0145/0150

CIRC ACCESSION NO--APCC49173

UNCLASSIFICU

Acc. Nr. Abstracting Service:
CHEMICAL ABST. 5-10

Ref. Code:
Whoord

104226f Removal of nitrogen-containing compounds roin methanol. I. Physicochemical properties of some cation exchangers in methanol. Karavaev, M. M.; Petrishchev, K. P. (USSR). Zh. Prikl. Khim. (Lenngrad) 1970, 13(1), 135-50 (Russ). Degree of swelling in HO and MoH, chem. stability in MeOH, and absorption capacity of NH, MeNH, MeNH, MeNH, Me, NJ, Me, NJ, and I-methylpyrrolidone for cation resins KUI, KU-6g, KB-4, SC-1, SBS-1, KU-2-8ch, and KU-2-8 were detdl. Chera. stability was detal. by extr. of resins with boiling MeDH for 3 hr and dissoln. was followed. High acidic exchangers KU-2-8, KU-2-8ch, and low acidic SC-1 were sufficiently stable but only KU-2-8 and KU-2-8ch were recommended to use for MeOH purification. The absorption capacity of resins with rispect to the N-contg. compds. decreases in the same order they are mentioned. The lowest capacity was that one found for 1-methylpyrrolidone; the highest value was only 0.85 for SBS-1 and the lowest one 0.10 mequiv/g for KU-6g.

REEL/FRAME

19800980

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

USSR

UDC: 621.372.061

PETRISHCHEV, V. I.

"Synthesis of a First-Order Speed-Optimum Phase Automatic Frequency Control System"

Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR (Works of Educational Institutes of Communications. Ministry of Communications of the USSR), 1970, vyp. 48, pp 211-214 (from RZh-Radiotekhnika, No 2, Feb 71, Abstract No 2A103)

Translation: The synthesis is done on the basis of Pontryagin's principle of the maximum; the phase AFC system is treated as an automatic control system in which the controlled object is a tunable oscillator and the controlling element is the frequency controller. The author finds the optimum characteristic of the phase AFC system which can be realized in the case of a phase detector with rectangular characteristic. The maximum duration of the transient process in an optimum phase AFC system is determined. Two illustrations, bibliography of eight titles. N. S.

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USSR

UDC 621.372.061

PETRISHCHEV, V. I.

"Synthesis of a First-Order FAPCh [automatic phase frequency control] System which is Optimal with Respect to Speed in the Presence of Noise"

Tr. Mosk, elektrotekhn, in-ta svyazi (Works of Moscow Electrotechnical Communications Institute), 1970, vyp. 1, pp 95-98 (from RZh-Radiotekhnika, No 9,

Translation: It is demonstrated that the FAPCh system which is optimal with respect to speed must have a phase detector with a rectangular characteristic. This system will be optimal also in the presence of additive noise. In shaping the rectangular characteristic of the phase detector it is sufficient to send a square standard signal and a signal from the tunable oscillator in the form of &-pulses to the multiplier. It is possible to show that the first order FAPCh system with a rectangular phase detector characteristic is also optimal in the presence of internal noise. The bibliography has six entries.

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USSR

MATRESHIN, V. F., PETRITSYUK, V. D., MATRESHIN, A. V., and BORISOVA, G. P.

"Protective Action of Sodium Hydroxybutyrate in Poisoning by Organophosphorus Compounds"

Sb. Nauch. Robot Voyen. Med. Fak. pri Kuybyshev Med. In-te (Collection of Scientific Papers of the Military Medical Faculty at the Kuybyshev Medical Institute), 1973, No 4, pp 206-208 (from RZh-Biologicheskaya Khimiya, No 24, Dec 73, Abstract No 2190)

Translation: The protective action of sodium hydroxybutyrate (I) was studied on mice using subcutaneous or intraperitoneal administration, 25 minutes prior to exposure to lethal doses of organophosphorus compounds. In preliminary experiments concentrations of I were determined (100 and 200 mg/kg) which ministration of 100 and 200 mg/kg of I resulted in 65 and 85% survival of the animals respectively. It has been assumed that the expressed protective action of I (especially on subcutaneous injection) is connected with an action on the retarding CNS paths and not with the blocking of the choline CE.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

UDC 539.3.01

USSR

PETRIVNIY, I, I.

"Variation Method for Ribbed Plates With Cuts"

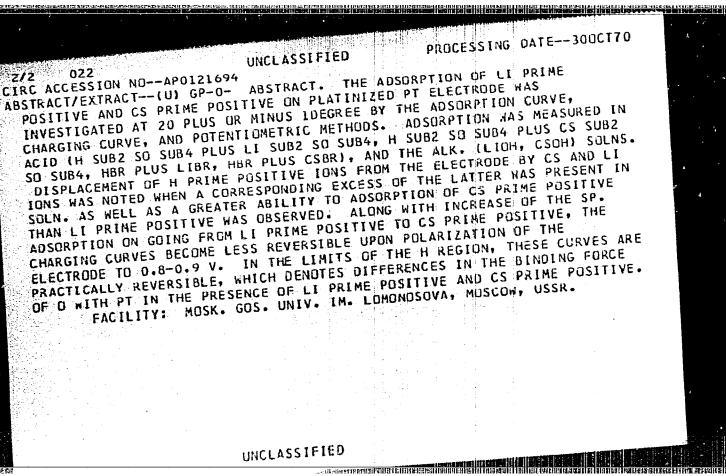
V sb. Kratk. tezisy dokl. k Konf po povrezhdeniyam i ekspluat. nadezhnosti sudovykh konstruktsiy, 1972 (Brief Subjects of Papers at the Conference of Breakdown and Utilization of the Reliability of Ship Designs, 1972 -- Collection of Works), Vladivostok, 1972, pp 23-27 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V60)

Translation: A discrete algorithm is proposed for calculating plates with an arbitrary outline and variable thickness reinforced by ribs for rigidity and with arbitrary cuts. The algorithm is based on finding the minimum potential energy of the rigidity ribs and the plate. The thickness of the plate is taken as a constant within the limits of each triangular element. The lines of the contour of the elements coincide with the existing ribs. An expanded rectangular plate ribbed on the longitudinal edges with an elliptical opening ribbed along the edge is considered as an example. The coefficients of stress concentration are given in a table as functions of the dimensions of the opening, the rib of the plate and the thickness of the rigidity ribs. N. T. Glazunova.

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- 66 -

PROCESSING DATE--300CT70 UNCLASSIFIED TITLE-ADSORPTION OF LITHIUM AND CESTUM CATIONS ON PLATINUM -U-AUTHOR-(03)-PETRIY, O.A., FRUMKIN, A.N., SHCHIGOREV, I.G. COUNTRY OF INFO--USSR SOURCE--ELEKTROKHIMIYA 1970, 6(3), 400-4 DATE PUBLISHED ---- 70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--ADSORPTION, LITHIUM, CESIUM, PLATINUM ELECTRODE CONTROL MARKING--NO RESTRICTIONS STEP NO---UR/0364/70/006/003/0400/0404 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/1135 CIRC ACCESSION NO--APO121694 UNCLASSIFIED



1/2 O21 UNCLASSIFIED PROCESSING DATE--30JCT70
TITLE--EFFECT OF SOLUTION PH ON THE ADSORPTIO: OF HYDROGEN AND OXYGEN ON
PLATINUM AND RHODIUM ELECTRODES -UAUTHOR-(02)-PETRIY, 0.A., KOTLOV, YU.G.

COUNTRY OF INFO--USSR

SOURCE--ELEKTROKHIMIYA 1970, 6(3), 404-7

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ADSORPTION, HYDROGEN, OXYGEN, PLATINUM ELECTRODE, RHODIUM, SULFATE, CHLORIDE, BROMIDE

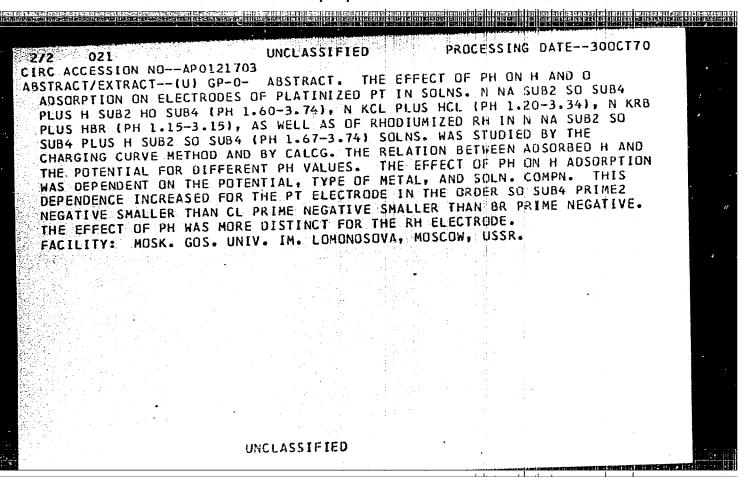
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/1144

STEP NO--UR/0364/70/006/003/0404/0407

CIRC ACCESSION NO--APO121703

UNCLASSIFIED



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1/2 016 UNCLASSIFIED PROCESSING DATE--020CT70 TITLE--ELECTROCHEMICAL BEHAVIOR OF PLATINUM AND RHODIUM FILMS -U-

AUTHOR-(03)-MANSUROV, G.N., PETRIY, O.A., PAVLOVICH, V.K.

COUNTRY OF INFO--USSR

SOURCE--ELEKTROKHIMIYA 1970, 6(2) 291

DATE PUBLISHED----70

SUBJECT AREAS-MATERIALS, CHEMISTRY

TOPIC TAGS--ELECTROCHEMICAL REACTION, PLATINUM, RHODIUM, SITALL GLASS, COPPER, ELECTRODE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0468

STEP NO--UR/0364/70/006/002/0291/0291

CIRC ACCESSION NO--APO107074

UNCLASSIFIED

Ratio (1) UNCLASSIFIED PROCESSING DATE--020CT70 CIRC ACCESSION NO--APO107074 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TRIANGULAR VOLTAGE PULSES WERE USED FOR OBTAINING POTENTIODYNAMIC CURVES ON PT AND RH FILMS, SPUTTERED IN VACUUM ON SITALL SUBSTRATES, IN H H SUB2 SO SUB4 AND IN THE PRESENCE OF VARIOUS ADDNS. OF CUSO SUB4. PARALLEL MEASUREMENTS WERE MADE ON COMPACT METALS IN THE FORM OF WIRES. THE H SECTIONS OF THE CURVES IN N H SUB2 SO SUB4 ON FILMS AND COMPACT ELECTRODES COINCIDE. ON FILMS A SOMEWHAT EARLIER DEPOSITION OF O IS DBSD. AND ITS AMT. WAS SOMEWHAT HIGHER THAN ON A COMPACT ELECTRODE. THE NATURE OF FORMATION AND SISSOLN. OF CU LAYERS ON FILMS AND COMPACT ELECTRODES IS IDENTICAL. SHAPE OF THE POTENTIODYNAMIC CURVES IN THE PRESENCE OF CU IONS IN SOLN. WAS EQUAL FOR RH FILMS AND COMPACT ELECTRODES. AS IN THE CASE OF PT, MAX. WERE FOUND ON THE CURVES THAT CORRESPOND TO THE DISSOLM. OF THICK AND THIN LAYERS AND CU ADATOMS. UNCLASSIFIED

UNCLASSIFIED

TITLE--SURFACE STATE OF AN IRIDIUM ELECTRODE STUDIED BY MEANS OF PROCESSING UATE-- 300CTTO

ISOELECTRIC SHIFTS IN PUTENTIAL -U-AUTHOR-(02)-PETRIY, O.A., THIEU, N.V.

COUNTRY OF INFO--USSR

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SOURCE--ELEKTROKHIMIYA 1970, 6(3), 408-11

DATE PUBLISHED-----70

SUBJECT AREAS--PHYSICS, MATERIALS

TOPIC TAGS--IRIDIUM, ELECTRODE POTENTIAL, METAL ELECTRODE, POTASSIUM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/1729

STEP NO--UR/0364/70/006/003/0408/0411

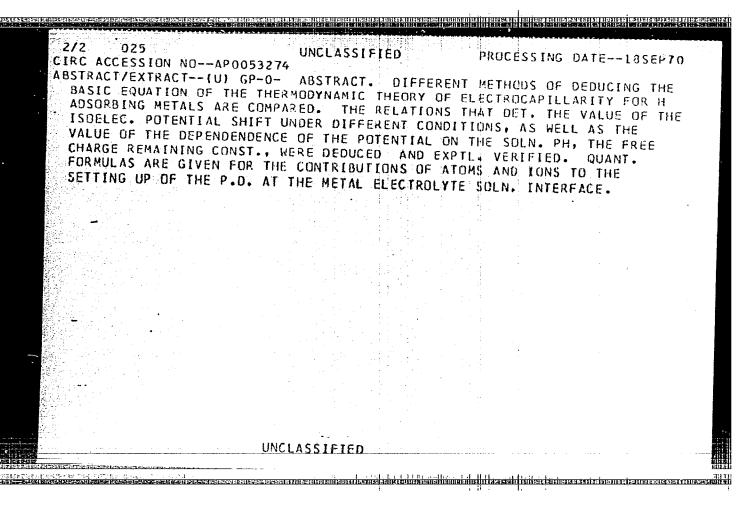
CIRC ACCESSION NO--APO115558

UNCLASSIFIED

2/2 016 UNCLASSIFIED CIRC ACCESSION NO--APO115558 PROCESSING DATE--300CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. DEPENDENCES OF ISOELEC. SHIFTS IN POTENTIAL AND ADSORPTION GAMMA H PRIME POSITIVE OF H IONS ON THE IR ELECTRODE POTENTIAL FOR 0.001N KOH, 0.01N KOH PLUS N KBR, 0.01N KOH PLUS N KI, AND 0.01N KBR PLUS N KBR ARE PRESENTED. TECHNIQUE OF THE MEASUREMENTS, PREPN. OF IR ELECTRODE, AND DETN. OF ITS REAL SURFACE ARE DESCRIBED EARLIER (CA 70: 120513M). ISOELEC. SHIFTS IN POTENTIAL ARE DETD. AT ZODEGREES FOR THE CHANGES OF 0.001N KOH TO 0.1N KOH, OR 0.001N KOH (OR HBR) PLUS 0.009N KI (OR KBR) TO 0.1N KOH (OR HBR) PLUS 0.91N KI (OR KBR). THE PHI SUBR POTENTIALS ARE GIVEN IN RELATION TO THE REVERSIBLE H ELECTRODE IN THE SAME SOLN. FROM ISOELEC. SHIFTS IN POTENTIAL AND EQUIL. CHARGE CURVE THE DEPENDENCE OF THE H ION ADSORPTION ON THE POTENTIAL IS CALCO. THE CALCO. IS ACHIEVED WITH THE SUE OF AN EQUATION DERIVED PREVIOUSLY (CA 69: 73416Z). THE DEPENDENCES CALCD. ARE COMPARED WITH THOSE FOUND EXPTL. BY TITRATING THE SOUN. POTENTIALS, FOR WHICH GAMMA SUBH PRIME POSITIVE EQUALS O, ARE THE SO CALLED ZERO CHARGE POTENTIALS PHY SUBZ.CH. IN ALK. TODIDE SOLN., 2 POINTS OF ZERO CHARGE FOR PHI SUBR EQUALS 0.11 AND 0.75 V EXIST. THE IST POINT CORRESPONDS TO THE REDN., THE 2ND ONE TO THE OXION. SURFACE STATE. THE DEPENDENCES OF PHI SUBZ.CH. ON PH ARE PRESENTED. FACILITY: MOSK. GOS. UNIV. IM. LOMONOSOVA, MOSCOW, USSR.

UNCLASSIFIED

1/2 025 UNCLASSIFIED PROCESSING DATE--18SEP70 TITLE--ADSORPTION OF IONS AND ATOMS ON PLATINUM GROUP METALS -U-AUTHOR-(02)-FRUMKIN, A.N., PETRIY, O.A. COUNTRY OF INFO--USSR SOURCE--ELECTROCHIM. ACTA 1970, 15(2) 391-403 DATE PUBLISHED ---- 70 SUBJECT AREAS--CHEMISTRY TOPIC TAGS--METAL, ADSORPTION, HYDROGEN, ELECTROLYTE, CHEMICAL REACTION RATE CONTROL MARKING--NO RESTRICTIONS STEP NO--UK/0000/70/015/002/0391/0403 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/0289 CIRC ACCESSION NO--APO053274 UNCLASSIFIED



USSR

UDC: 621.385.64(088.8)

PETROCHENKOV, V. I.

"A Magnetron"

USSR Author's Certificate No 283419, filed 29 Mar 69, published 10 Dec 70 (from RZh-Elektronika i yeye Primeneniye, No 6, Jun 71, Abstract No 6A151P)

Translation: This Author's Certificate introduces a magnetron which contains a decelerating system closed into a ring encircling the cathode. The tube also contains a distributed energy tap. As a distinguishing feature of the patent, emission power is increased by making the distributed energy tap in the form of an open decelerating system with one end connected to the useful load and the other connected to a balanced matched load. Tuning elements for selecting the amount of coupling are connected between the circular closed decelerating system and the distributed energy tap. Jumpers and a shield are used as the tuning elements.

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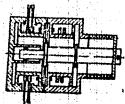
UDC: 621.385.64

PETROCHENKOV V. I.

"A Magnetron"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 31, 1970, Soviet Patent No 283419, Class 21, filed 29 Mar 69, p 74

Abstract: This Author's Certificate introduces: 1. A magnetron which contains a decelerating system closed into a ring surrounding the cathode, and a distributed power output. As a distinguishing feature of the patent, the emission power is increased by making the distributed power output in the form of an open decelerating system in which one end is coupled to the useful load, while the other is connected to a matched balance load. Between the ring decelerating system and the distributed power output are tuning elements for coupling selection. 2. A modification of this magnetron distinguished by the fact that jumpers and a shield are used as the tuning elements.



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USSR

UDC 539.376+532.135

SVIRIDENOK, A. I., PETROKOVETS, M. I., BELYY, V. A.

"Introduction of a Single Unevenness in a Viscoelastic Halfspace"

V sb. Kontaktn. vzaimodeystviye tverd. tel i raschet sil treniya i iznosa (Contact Interaction of Solid States and Calculation of the Forces of Friction and Wear-collection of works), Moscow, Nauka Press, 1971, pp 101-105 (from RZh-Mekhanika, No 11, Nov 71, Abstract No 11V474)

Translation: An estimate of the possibility of using the known laws of deformation of viscoelastic bodies with coefficients determined from mechanical experiments to the calculation of the interaction of a smooth metal sphere with polymer materials is presented. This creates prospects for direct application of the results of developing the theory of deformation and strength of polymer materials to the solution of the problem of friction during metal-polymer contact. The bibliography has 23 entries.

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UDC: 537.531

KOMAR, A. P., KOROBOCHKO, Yu. S., MINEYEV, V. I., and PETROCHENKO. A. F.

"Bremsstrahlung of Electrons With Energies of 7-10 Mev in Thin Silicon Crystals"

Leningrad, Zhurnal Tekhnicheskoy Fiziki, vol. 41, No. 4, April 1971, pp 807-814

Abstract: The purpose of the experiments described in this paper is to make a more detailed study of the radiation spectra produced by a stream of electrons of 7-10 Mev of energy braked by a target of thin crystalline silicon and to compare the experimental results with those of theoretical calculations. The spectral measurements were made on an LPI betatron with a maximum energy of 15 Mev; the target, 7-11 microns thick, was placed in the betatron chamber so that the direction of the incident electrons and the axis of the braked radiation beam coincided

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USSR

KOMAR, A. P., et al., Zhurnal Tekhnicheskoy Fiziki, Vol 41, No 4, Apr 71, pp 807-814

with the /110/ direction of the crystal. A collimator inside the chamber reduced the angular dispersion of the electrons to the target. The axial part of the output bremsstrahlung was conducted through a system of lead collimators to a scintillation spectrometer. A block diagram of the equipment is shown and a detailed description given.

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UDC 539.21:536.42

PETROPAVLOV, N. N. and MNYUKH, Yu. V.

"Investigating the $\beta-\delta$ Polymorphic Transition Process in Hexachlorophene"

V sb. <u>Kristallizatsiya i faz. prevrashcheniya</u> (Crystallization and Phase Transformations--collection of works) Minsk, "Nauka i tekhn." 1971, pp 46-53 (from <u>RZh-Fizika</u>, No. 9, 1971, Abstract No. 9E338)

Translation: The investigation of low-temperature polymorphic transitions in C2Cl6 and the observation and cinematic filming of the phase interfaces at the optical resolution limit have led to the establishment of a layer growth mechanism for crystals of the daughter phase. A series of secondary phenomena is discovered: rhythmic splitting, the movement of twinning boundaries under the action of the phase interfaces, and the formation of spherical cavities measuring less than one micron. Author's abstract

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Acc. Nr: #0034399_

Ref. Code: UR 0297

STREET STREET

PRIMARY SOURCE: Antibiotiki, 1970, Vol 15, Nr 2, pp /36 -/40

THE EFFECT OF QUINACRINE AND AURANTINE ON THE ORIGINATION AND DEVELOPMENT OF RESISTANCE IN STREPTOCOCCI, MINISTRALIA

I. S. Petropavlovskaya, V. M. Podboronov

Division of Infection Pathology and Experimental Therapy of Infections of the N. F. Gamalei Institute of Epidemiology and Microbiology of the AMS of the USSR, Moscow:

Combined use of streptomycin (100 Un/ml) with quinacrine or aurantine produces a much greater reduction of viable staphylococci in the culture medium than does the use of streptomycin alone. An addition of quinacrine (80 γ /ml) or of aurantine (0.05 γ /ml) yields in 24 hours a complete bactericidal effect without development of resistant forms. Combination of penicillin with quinacrine or aurantine exercised bactericidal effect also on the penicillin-resistant staphylococcus obtained through passages on the media with progressively increasing concentration of the antibiotic. The resistance was noted to go down to the sensitivity level of the initial strain under effect of quinacrine and aurantine.

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USSR

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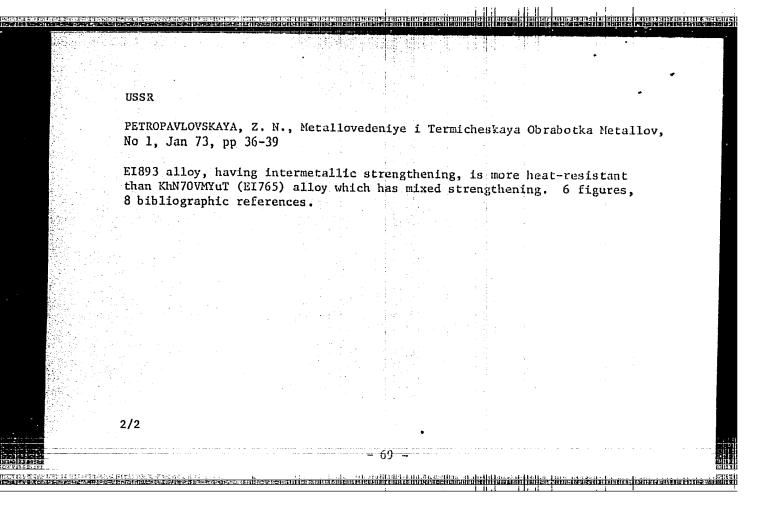
PETROPAVLOVSKAYA, Z. N., Central Scientific Research Institute of Technology and Machine Building

"Relaxation Stability of Fe- and Ni-Base Alloys at High Temperatures"

Moscow, Metallovedeniye i Termicheskaya Obrabotka Metallov, No 1, Jan 73, pp 36-39

Abstract: The relaxation stability of Fe- and Ni-base alloys was studied for a Ni-Cr alloy; Ni-W with 15% Cr and 5% Mo; Ni-W with 15% Cr, 5% Mo and 2% Nb; steel with 5% Cr, 1% Mo, and 0.2% Nb; steel with 5% Cr, 1% Mo, 0.1% V and 0.2% Nb; and steel with 12% or 18% Cr, 1% Mo, 0.2% Nb, and 0.1% V. It was determined that alloying of iron or nickel-base solid solutions must be done using elements which increase the elastic properties of the lattice and create thermally stable strengthening phases to provide a high relaxation stability. Polycomponent alloying of the solid solution with Nb, Mo, and W is the most effective in that maximum strengthening can be achieved with the minimum amount of alloying elements in comparison with binary solid solutions. The presence of strengthening phases increases the strength and relaxation stability only in their dispersed distribution in the solid solution with high clastic proporties. It was noted that the

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1/2 026 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--HICROSCOPIC PLASTIC DEFORMATION, ASSOCIATED WITH, STRESS
RELAXATION, IN STEELS AND ALPHA IRON -UAUTHOR-(03)-MIRKIN, I.L., PETROPAYLOYSKAYA, Z.N., ILINYKH, S.A.

COUNTRY OF INFO--USSR

SOURCE-METALLOVEDENIE I TERM. OBRABOT! METALLOV, 1970, (3), 62-64

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--PLASTIC DEFORMATION, STRESS RELAXATION, CARBON STEEL, ALLOY STEEL, CHROMIUM STEEL, INTERMETALLIC COMPOUND

CONTROL MARKING--NO RESTRICTIONS

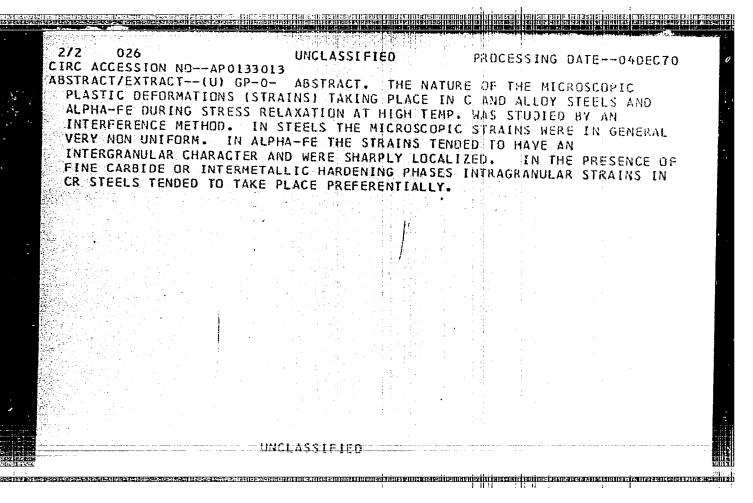
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0924

STEP NO--UR/0129/70/000/003/0062/0064

CIRC ACCESSION NO--APO133013

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"



USSR

UDC 621.376.4

PETROPAVLOVSKIY, V. P., SINITSYN, N. V.

"Highly Stable Transistorized Phase Detectors"

Kiev, <u>Izvestiya vysshikh uchebnykh zavedeniy-Radioelektronika</u>, Vol XIV, No 8, 1971, pp 924-927

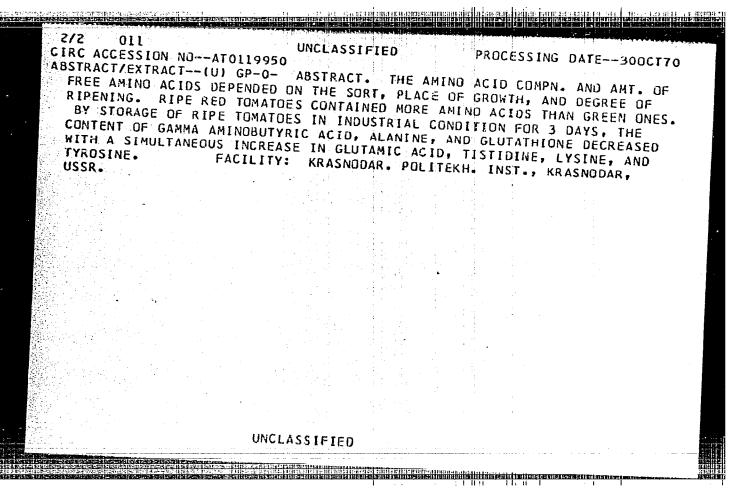
Abstract: A study was made of the principles of constructing highly stable transformerless phase detectors by replacing the transformer by a transistorized inverter. This replacement gives a significant gain in thermal stability and the pass band of the entire device (up to several tens of megahertz), and it also solves the problems of microminiaturization. Circuit diagrams are presented for a balanced phase detector, a varical phase detector and a high-sensitivity phase detector. The characteristics of each of these schemes are discussed.

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1/2 011 TITLE-CHANGE IN AMINO ACID COMPOSITION DURING THE RIPENING AND STORAGE OF UNCLASSIFIED PROCESSING DATE--300CT70 AUTHOR-(02)-PETROPAVLOVSKIY, YE.I., TROYAN, Z.A. COUNTRY OF INFO--USSR SOURCE--IZV. VYSSH. UCHEB. ZAVED., PISHCH. TEKHNOL. 1970, (1), 21-5 DATE PUBLISHED---- 70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS-AMINO ACID, FOOD STORAGE CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1091 STEP NO--UR/0322/T0/000/001/0021/0025 CIRC ACCESSION NO--ATO119950 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"



Information Theory & Pattern Recognition

USSR

UDC: 681.325.65

IGNATOV, V. A., KONAREV, A. P., PETROPOL'SKIY, N. V. POLYAK, L. M.

"An Angle-to-Code Converter"

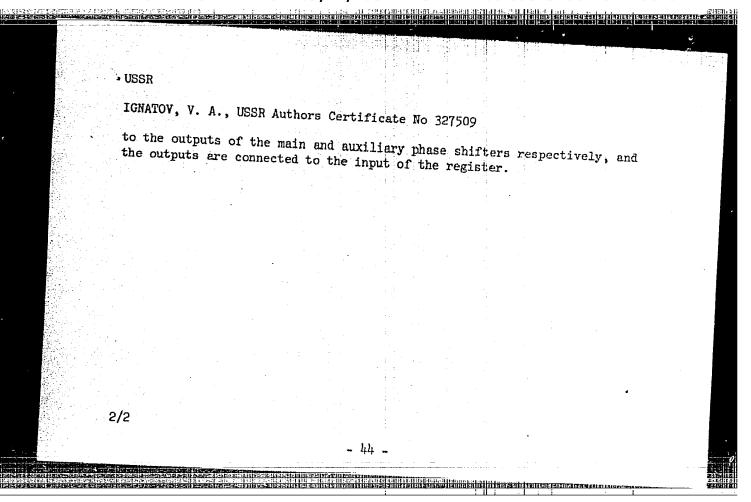
USSR Author's Certificate No 327509, filed 21 Apr 69, published 10 Apr 72 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 1, Jan 73, abstract No 18459 P)

Translation: Converters for changing shaft position to code are known which contain a phase shifter; a power supply; an amplifier; and a series circuit comprised of a null detector, control module, square pulse generator, frequency dividers, flip-flops, coincidence gates, and a register. The register input is connected to the output of the control module, and the output is connected through a coincidence gate to the output of one of the frequency dividers. A disadvantage of such converters is the high error rate of conversion.

To reduce conversion error, the proposed converter contains an additional multiple-pole phase shifter and two parallel networks made up of an amplifier, null detector, flip-flop, coincidence gate, OR gate, and pulse counter connected in series. The inputs of these networks are connected

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USSR

UDC 681.327.12

ZARETSKAS, V.-S. S., ZARETSKAS, S.-G. S., PETROSHYAVICHYUTE O S., RAGUL'SKIS, K. M.

"Photoelectric Device for the Measurement and Input of Data into Computers"

Patent No. 327502 (1374753/18-24 from 24 November 1969), Class G 06k 11/00, G 08c 8/01, announced by Kaunas Polytechnical Institute (from Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No. 5, 1972, p 146)

Abstract: A photoelectric device for the measurement and input of data into computers containing a rotating object table connected with a drive with a pickup for position and velocity, an illuminator with a source of continuous light, an electron-optical system for shaping and converting of information signals with objects, and a programming and control system are described. It is distinguished by the fact that in order to expand the functional potentialities and increase accuracy the irradiator contains a unit with light generation modes with a source of light flashes connected to one of its outputs, a unit for controlling the light intensity, and semitransparent plates installed on the optical axis of the source of light flashes at an angle to the direction of the light flow from the continuous light source to the unit for light intensity control and the optical axis of the objectives of the electron-optical system for shaping and converting information signals. The cutput of the units for light generation modes and control of light intensity are connected with the outputs of the programming and control system. 1/1

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

Epidemiology

USSR

UDC 616.981.25-036.22(99)

PETROSOV, V. V., and MORDVINOVA, N. B., Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, Academy of Medical Sciences USSR, and Moscow Scientific Research Institute of Epidemiology and Microbiology, Ministry of Health USSR

"Distribution of Staphylococcus Infection in an Isolated Collective of Polar Explorers in the Antarctic"

Moscow, Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 2, 1973, pp 94-98

Abstract: Staphylococcal infection was observed May 1968 to February 1969 among 16 individuals in a Soviet Antarctic expedition to Novolazerevskaya Station in order to define the behavior of bacteria, normally residing in the human upper respiratory tract, under isolated conditions. For unknown reasons pathogenic Staphylococci were never detected among four individuals throughout the observation period. Among the remaining 12, 3 were permanent carriers and 9 were intermittent carriers. The same phagotype was isolated from the upper respiratory tracts of specific individuals throughout the observation period, and never more than one was isolated from a particular individual, indicating that each individual acts as a host to a stable colony of bacteria specific to him. Such stability, even when illness arises among other individuals with different

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PETROSOV, V. V. and MORDVINOVA, N. B., Zhurnal Mikrobiologii, Epidemiclogii, i Immunobiologii, No 2, 1973, pp 94-98

phagotypes, is probably due to intraspecies antagonism of the bacteria. Though foreign pathogenic bacteria were detected on the skin and in the respiratory tracts of 3 individuals, the initial phagotype subsequently regained dominance. Phagotypes were subjected to several tests to determine their pathogenic properties and virulence. In general they were found to be toxigenic (84.9% of 253 strains isolated) and virulent (95.1%). Considering the large number of individuals carrying pathogenic bacteria, the possibility of reinfection by foreign bacteria, and the toxigenicity and virulence of the strains, it is likely that the individual's immunobiological properties are more important to the pattern of Staphylococcal etiology than are the properties of the bacteria.

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Acc. Nr: AP0046256

Ref. Code: URO511

PRIMARY SOURCE:

Stomatologiya, 1970, Vol 49, Nr / , pp 36-38

Yu. A. Petrosov — THE TECHNIQUE AND ASSESSMENT OF THE TREATMENT OF THE TECHNIQUE AND ASSESSMENT OF THE TREATMENT OF THE TEMPEROMANDIBULAR JOINT WITH THE AID OF A NONREMOVABLE RESTRICTING BAR

Summary. The author proposes an original nonremovable restricting bar for the treatment of habitual dislocations, subluxations and chronic arthritis of the temperomanditude joint which has advantages over the existing orthopedic apparatus. The paper describes the design of the bar, the technique of its application, indications and contraindications. The immediate and remote results of treatment effected in 144 patients with habitual dislocations and subluxations and in 18 patients with chronic arthritis of the temperomandibular and in all 18 patients with chronic arthritis of the temperomandibular joint. The remote in only 7 patients.

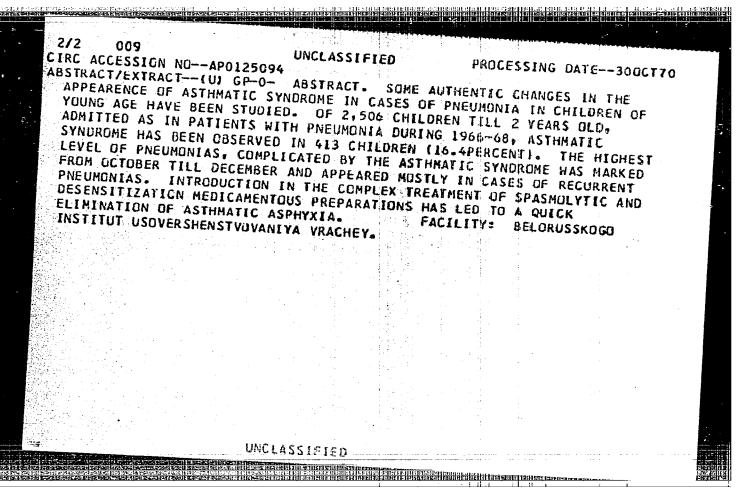
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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202410018-1"

HINDRIC STATE 1/2 009 TITLE-ON THE PECULIARITIES OF APPEARING AND TREATMENT OF ASTHMATIC PROCESSING DATE--- 300CTTC SYNDROME IN PNEUMONIAS IN CHILDREN OF VERY YOUNG AGE -U-AUTHOR-PETROSOVA, R.A. COUNTRY OF INFO-USSR SOURCE-ZORAVOOKHRANENIYE BELGRUSSII. 1970, NR 5, PP 31-33 SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS-PNEUMCNIA, DISEASE INCIDENCE, ASPHYKIA CONTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--2000/1466 STEP NO-UR/0477/70/000/005/0031/0033 GIRC ACCESSION NO--AP0125094 UNCLASSIFIED



Radiation Chemistry

USSR

UDC 543.062 + 546.791

TARAYAN, V. M., OVSEPYAN, Ye. N., and PETROSYAN, A. A., Yerevan' State University, Institute of General and Inorganic Chemistry Acad. Sci. Armenian SSR (Yerevan')

"Extraction of Uranium (VI) with Basic Dye Acridine Orange NO"

Yerevan, Armyanskiy Khimicheskiy Zhurnal, Vol 24, No 11, 1971, pp 966-970

Abstract: Maximum extraction of uranium (VI) into the organic phase was achieved in the presence of 4.0-8.5·10⁻⁵M concentration of dye and 7.0-7.7·10⁻³M concentration of sodium benzoate at pH 4.3-5.6. Excen benzoate produces a sharp rise in the optical density of the blank. Benzene is the preferred extractant for the ternary complex. The maximum light absorption of the benzene extract (505 nm) remained constant for 3-3.5 hours. The order of addition of reagents did not influence the optical density of extract. A direct proportionality between the uranium (VI) concentration in aqueous phase and the optical density of the extract remained constant within 0.1-5.5 µg U02⁺/ml. The average molar extinction coefficient is 5.4·10⁴. The dye cation and the uranium (VI) benzoate anion react in a

1:1 molar ratio. The specificity factor $K = \frac{[\text{ion}]}{[\text{UO}_2^{2+}]}$ where [ion] is the

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USSR

TARAYAN, V. M., et al., Armyanskiy Khimicheskiy Zhurnal, Vol 24, No 11, 1971, concentration of impurity ion low enough not to influence the extraction selectivity of uranium (VI) by dye was calculated for 12 cations and 3

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