PROCESSING DATE--160CT70

UNCLASSIFIED TITLE--CONTRACTION OF A POSITIVE DISCHARGE COLUMN -U-

AUTHOR--KOZLOV, YU.G.

COUNTRY OF INFO--USSR

SOURCE--OPT. SPEKTROSK. 1970, 28141, 654-8

DATE PUBLISHED-----70

SUBJECT AREAS -- PHYSICS

TOPIC TAGS--POSITIVE COLUMN, DISCHARGE TUBE, GAS IONIZATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY KEEL/FRAME--1996/1461

STEP NO--UR/0051/70/028/004/0654/0658

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CIRC ACCESSIUN NO--APO118450

UNCLASSIFIED

2/2 025 UNCLASSIFIED PROCESSING DATE--160CT70

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ROLE OF A NONUNIFORM DISTRIBUTION OF NORMAL ATOMS ALONG THE CROSS SECTION OF THE DISCHARGE TUBE ON THE CONFIGURATION OF THE DISCHARGE COLUMN WAS INVESTIGATED. THE CALCN. WAS PERFORMED IN TERMS OF THE ELECTRON TEMP. CONSIDERING THE STEP NATURE OF THE EXCITATION AND OF THE IONIZATION AND THE DEFORMATION OF THE TAIL OF THE DISTRIBUTION FUNCTION. OWING TO THE LARGE HEAT CAPACITY OF THE TUBE WALLS, THE GAS TEMP. NEAR THEM WAS ASSUMED TO BE LOWER THAN NEAR THE TUBE AXIS; THIS LED TO STRONGER IONIZATION IN THE CENTER CAUSING THERE A HIGHER ELECTRON CONCN. AFTER AN AVALANCHE PROCESS OF COLUMN CONTRACTION, A DISCHARGE THREAD WAS FORMED. THE QUAL. INFLUENCE OF DIFFUSION, HEAT COND., AND RECOMBINATION WAS CONSIDERED.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

UDC 536.46:533.6

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ITIN, V. I., NAYBORODENKO, Yu. S., KOZLOV, Yu. I., USHAKOV, V. P.

"Gasless Combustion of a Mixture of Metal Powders"

V sb. Goreniye i vzryv (Combustion and Explosion -- Collection of Works), Moscow, "Nauka", 1972, pp 142-147 (from RZh-Mekhanika, No 3, Mar 73, Abstract

Translation: This paper is concerned with the study of the gasless combustion of mixtures of nickel-aluminum and copper-aluminum powders, the kinetics of reaction diffusion in these mixtures and the increase in volume of brickets due to the formation of new phases. Equations are obtained describing thermal and volume effects in a mixture of metal powders. Authors' abstract.

1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3" USSR

UDC 620.183.48

ITIN, V. I., KOZLOV. Yu. I., PUGINA, L. I., YURCHENKO, A. G., SAVITSKIY, K. V. (Deceased), and FEDORCHENKO, I. M., Institute of Problems of Material Science, Academy of Sciences Ukrainian SSR

"Study of the Sintering, Structure and Phase Composition of Nickel Alloy-Base Metal-Graphite Materials. Report 1. Study of the Sintering Process of Nickel-Base Materials and Both the Structure and Phase Composition of Nickel-Copper-Graphite Alloys"

Kiev, Poroshkovaya metallurgiya, No 10, Oct 71, pp 26-31

Abstract: The study concerns the process of sintering as well as phase and structural changes occurring during sintering in Ni alloy-base metal-graphite materials. The experimental materials comprised 80% Ni and 20% Fe or 20% Cu with 30 and 50% (by vol.) graphite. The addition of graphite to Ni-Cu and Ni-Fe alloys markedly reduces both the amount of shrinkage and its rates during sintering. With 50% graphite the compression gives way to volumetric growth. Cu additions result in greater volumetric growth than Fe additions. The major cause of volumetric growth is believed to be the formation of inclusions isolated between particle surfaces, interaction with oxides to form gases, and desorption gases from the graphite resulting in a breakdown

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ITIN, V. I., et al., Poroshkovaya metallurgiya, No 10, Oct 71, pp 26-31

of contacts. Graphite additions cause the separation of Cu and Ni particles and reduce the alloy's homogeneity. In Cu-Ni alloy-base metal-graphite materials, graphite becomes an inert addition and spreads over the structure in the form of a separate inclusion in the metal matrix — the solid solution of Cu in Ni. (5 illustrations, 5 bibliographic references)

2/2

1/2 020 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--STRUCTURE AND LUMINESCENT SPECTRA OF ARYLMETHYL MADICALS -U-

AUTHOR-(03)-KOZLOV, YU.I., SHIGORIN, D.N., VOZNYAK, V.M.

COUNTRY OF INFO--USSR

SOURCE--ZH. FIZ. KHIM. 1970, 44(3), 788-90

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY, PHYSICS

TOPIC TAGS--PHOTOLYSIS, LUMINESCENCE SPECTRUM, FREE RADICAL, ELECTRON SPIN RESONANCE, BENZENE DERIVATIVE, METHYLENE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--1997/0722

STEP NO--UR/0076/70/044/003/0788/0790

CIRC ACCESSION NO--APO119629

UNCLASSIFIED

PROCESSING DATE--230CT76

FACILITY: NAUCH .- ISSLED. FIZ.-KHIM.

UNCLASSIFIED 020 2/2 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. PHCH SUB2 PH SUS2 CH AND PH SUB3 CIRC ACCESSION NO--APOL19629 C WERE PREPD. BY PHOTOLYSIS IN RIGID SOLNS. IN ETCH AT 77DEGREESK AND THE LUNINESCENCE OF ESR SPECTRA STUDIED: LUMINESCENCE SPECTRA HERE NOT INFLUENCED BY CONCN. OF RADICALS OF THE RIGID MATRIX. THE POSSIBILITY OF A "PROPELLER" STRUCTURE IS DISCUSSED. EXICTATION OF IRRADIATED SCLN. OF PH SUBZ CH SUBZ AT 313 M MU ALLOWED RECORDING OF LUMINESCENCE SPECTRA OF PHCH SUB2 TIMES, WHILE EXCITATION AT 334 M MU PROVIDED ONLY THE SPECTRUM OF BIPHENYL RADICAL. WAYS OF PREPS. PHCH SUB2 TIMES BY BOND

RUPTURES ARE DISCUSSED. INST. IM. KARPOVA, MOSCOW, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

USSR UDC 62-55

KOZLOV, Yu. M., LESKOV, V. G., SHPAKOV, V. M.

"An Adaptive Linear System"

USSR Author's Certificate No 308417, filed 11 Aug 69, published 2 Aug 71 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 7, Jul 72, Abstract No 7A167 P)

Translation: This Author's Certificate introduces an adaptive automatic linear control system with stability-boundary output. The system contains a main loop and an adaptive loop whose output is connected to the input of the main loop unit with the parameter to be varied, while the input of the adaptive loop is connected to the output of the main loop of the system. To improve the accuracy and stability of the system when the parameters of the main loop vary over a wide range, the adaptive loop is made in the form of a series circuit comprised of a first filter, a frequency doubler, a second filter, and a phase shifter.

1/1

USSR

UDC 577.3

FEDIN, VA. A., KOZLOV, YU. P., and TARUSOV, B. N., Chair of Biphysics, Moscow State University

"Superweak Light Emision During Thermal Kuscle Contraction"

Moscow, Vestnik Moskovskogo Universiteta, Seriya 6, Bhologiya, Pochvovedeniye, No 6, Nov/Dec 71, pp 108-110

Abstract: It has been demonstrated that when nuscle tissue in a humid chamber is heated, the intensity of superweak emision (chemiluminescence) increases. The connection between a fixed level of superweak emission and the changes that occur in it during heat-induced irreversible loss of excitability in the sartorius muscles of Rana temporaria and Rana ridhbunda (two species of frogs with different degrees of thermal sensitivity) was studied. When the prepared muscle tissue, which had been soaked in Ringer's solution, was heated from 20° to 35°C, the intensity of luminescence increased uniformyl for both species. In the interval from 38°C to 50°C, it increased sharply Rama temporaris. It was also for Rana ridibunda but leveled out for established that greater intensities of luminescence occurred if the muscles were soaked for longer periods in Ringer's solution and if this solution itself were heated. Furthermore, an increase in intensity of luminescence occurred at lower temperatures for muscles which had been soaked in Ringer's solution than in freshly prepared muscle tissue. 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

USSR

UDC 577.3

KOZLOV, YU. P., and MIKHAYLOVSKIY, G. YR., Moscow State University imeni M. V. Lomonosov

"Electrochemiluminescence of Carcinogenic Polycyclic Hydrocarbons"

Moscow, Doklady Akademii Nauk SSSR, Vol 193, No 5, 1970, pp 1174-1176

Abstract: The effect of various polycyclic hydrocarbons on the electrochemiluminescence (ECL) of a system consisting of tetraethylammonium bromide and direthylformamide was studied. All of the polycyclic compounds sensitized the ECL of the system, and the extent of the sensitization correlated well with the carcinogenic activity of the compounds. Since the luminescence was considered to be due to recombination of anion radicals of the hydrocarbons, their lifetime was determined by the EPR method. It was concluded that the lifetime of the anion radicals and the electron acceptor properties of the polycyclic hydrocarbons correlate to a high degree with carcinogenic activity. It is therefore masumed that the anion radical forms of polycyclic hydrocarbons participate in the chemical processes of carcinogenesis.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

1/2 036 UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE-RULE OF LYSOSUMES IN CARCINOGENESIS AND RADIATION INJURY OF CELLS

AUTHOR-(03)-DANILOV, V.S., KOZLOV VILLED ARUSUY, B.N.

COUNTRY OF INFO--USSR

SCURCE-DOKL. AKAD. NAUK SSSR 1970, 190161, 1474-5

DATE PUBLISHED ----- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TUPIC TAGS—RADIATION CELLULAR EFFECT, CHEMILUMINESCENCE, CARCINDGEN, LIVER, SARCOMA, ANTHRACENE, GAMMA IRRADIATION, LYMPHATIC SYSTEM, PEROXIDE, KETONE, ALDEHYDE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/1098

STEP NO--UR/0020/70/190/006/1474/1475

CIRC ACCESSION NO--ATO115117

UNCLASSIFIED

PROCESSING DATE-- L3NOV70 UNCLASSIFIED 2/2 036 CIRC ACCESSION NO--ATOILSILT ABSTRACTVEXTRACT--(U) GP-O- ABSTRACT. CHEMILUMINESCENCE ACCOMPANIES THE INTERACTION OF LYSOSCHES WITH VARIOUS CARCINOGENS, INDECATING THAT THE LATTER PROVOKE FREE RADICAL REACTIONS IN THE LYSOSOME MEMBRANE. STRONG CARCINOGENS SUCH AS 3.4 BENZOPYRENE AND 20 METHYLCHOLANTHRENE (1) EXCITE STRONG LUMINESCENCE IN NORMAL LYSOSOMES. WHEREAS WEAK CARCINOGENS SUCH AS ANTHRACENE AND 1.2 BENZOPYRENE EXCITE LITTLE. HOWEVER, I DID NOT LIVER LYSOSOMES TAKEN AT CAUSE LUMINESCENCE IN SARCOMA 45 LYSUSOMES. INTERVALS FROM ANIMALS TREATED WITH I SHOWED LUMINESCENCE INCREASES FOR UP TO 3 MONTHS AFTER TREATMENT. EXPOSING MIXIS, OF LYSOSOMES AND ANTHRACENE, 3.4 BENZOPYRENE, OR I TO 2 TIMES 10 PRIME4 LUX VISIBLE LIGHT CAUSED LUMINESCENCE IN PROPORTION TO THE TIME OF EXPOSURE AND THE CARCINGGENICITY OF THE COMPD. LYSOSOMES FROM ANIMALS EXPOSED TO 200. 650, OR 1500 R GAMMA RAYS SHOWED LUMINESCENCE IN PROPORTION TO THE AMT. PEROXIDES, HYDROPEROXIDES, EPOXIDES, ALDEHYOES, AND OF EXPOSURE. KETCHES WERE OBSD. IN LYSOSUMES FROM CERTAIN HEPATOMAS AND APPARENTLY OXION. REACTIONS CAUSED BY FREE RADICALS LYMPHOSARCOMAS. FACILITYS MOSK. GOS. UNIV. IM. ARE INVULVED IN CARCINUGENESIS. LOMONOSOVA, MUSCOW, USSR.

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UNCLASSIFIED PROCESSING DATE--IBNOV70

172 018 UNCLASSIFIED IN ANIMAL TISSUES DURING

TITLE-INFRARED STEETH -UMALIGNANT GROWTH -UMALIGNAT GROWTH -UMALIGNANT GROWTH -UMALIGNANT GROWTH -UMALIG

COUNTRY OF INFO--USSR

SOURCE--BIOL. NAUKI 1970, (2), 47-52

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- SARCOMA, PHOSPHOLIPID, IR SPECTRUM, AMIDE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/0622

STEP NO--UR/0325/70/000/002/0047/0052

CIRC ACCESSION NO--APOLIT848

UECLASSIFIED

PROCESSING DATE--13NOV70 UNCLASSIFIED 018 CIRC ACCESSION NO--APOL17848 PHOSPHOLIPIOS EXTO. FROM RAT ASSTRACT. ABSTRACT/EXTRACT--(U) GP-0-SARCOMA SHOWED A DOUBLING OF THE 1550 CM PRIME NEGATIVEL IN PEAK HEIGHT AS THE TUMOR REACHED MAX. GROWTH, AFTER WHICH THE PEAK RETURNED ALMUST TO ITS ORIGINAL HEIGHT. PHOSPHULIPIOS FROM THE LIVER OF THE SAME RATS SHOWED A CORRESPONDING MIN. AT THE SAME STAGE OF TUMOR GROWTH. APPARENTLY AMIDES AND IMIDES ACCUMULATE IN THE SARCOMA PHOSPHOLIPIDS FACILITY: MOSK+ GOS+ UNIV. IN. DURING MALIGNANT GRWOTH. LOMONOSOVA, MOSCOW, USSR.

UDC 620,179.16

USSR

VORONOV, A. I., KOZLOV, Yu. V., MALYSHEV, V. I., and MOROZOV, V. M., Tomsk Polytechnical Institute ireni S. M. Kirov

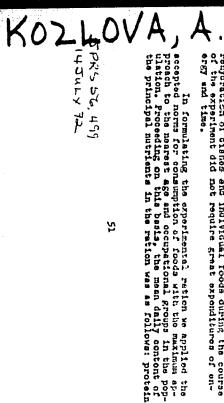
"Attachment to a UKB-1 Defectoscope for Inspection of Concrete at Negative Temperatures"

Sverdlovsk, Defektoskopiya, No 4, Jul-Aug 72, pp 59-63

Abstract: A shock-excited thyristor with increased output voltage amplitude (up to 6 kv) is proposed as an attachment for a UKB-1 defectoscope for use in the non-destructive testing of concrete at negative temperatures. Since it is not possible to use ultrasonic instruments equipped with Seignette salt heads in unheated locations, the authors employed cerumic piezoelements such as TsTS-19 which require a higher voltage and produce a higher voltage. The modified defectoscope with TsTS-19 radiation elements was tested on a standard concrete sample at -20 C. The tests showed reliability in the +60 to -20 C interval. 3 figures, 1 table, 1 bibliographical reference.

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The experimental ration consisted of dishes and products complainly roady for consumption, with their nubben-quent debydration by sublimation from a frozen state, with adecrate to the technological sublimation procedures the resulting products usually have good organologic qualities. The subject of the fight and similarly retain their food value and have a quite high and similarly in Addition, debydration serves us a quite high and method for precenting feeds. The selection of debydrated products was rational as well because the experiment provided for the regeneration of water from urbus and condensate. The arbitration of dishes and individual foods during the course of the experiment did not require great expenditures of onergy and time.

DIET DURING A YEARLONG MEDICAL SWITNESSTRO EXPERIMENT

/Article by 4. H. Kerleys and d. E. Keueltyrus Moncor, aktueltnye Tophosy turmitheskoy Biologii i Heditalny (Current Problems in Space Biology and Hedicine), hussian, 1971, pp 167-169/

In accordance with current concepts on the human dist during prolonged flights, in formulating the dist for the crow of a ground laboratory complex we seek into account the following basic requirements: 1) a constancy of good tests qualities and the external appearance of the foods, 2) ade-quary of the foods for the anticipated physiologic require-ments with retention of performence and human health, 1) a high assimilability of food produces, it) minimum weight and volume of the ration, 5) prolonged (not less than a year) preservability of the foods.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

Acc. Nr: APO034714

Ref. Code: UR 0241

PRIMARY SOURCE: Meditsinskaya Radiologiya, 1970, Vol 15,

Nr 2, pp 7-/2

THE CLINICAL PICTURE AND DIAGNOSIS OF RADIATION INJURY OF THE SPINAL CORD IN THE TREATMENT OF MALIGNANT TUMORS

A. V. Kozlova, M. A. Merkova

Summary

The article describes ten cases of radiation injury of the spinal cord after the irradiation of tumors of the pharyngolarynx, larynx, tonsils, mediastinum and lung. In 5 patients there was "electric paresthesia", developing several months after radium therapy, without objective symptoms of spinal pathology. In seven years in one patient there appeared a focal affection of the spinal cord with a thouly progressing symptomatics. In five patients with cancer of the laryngophatynx progressing affection of the spinal cord resulted in a lethal outcome. In four of them the focus of spinal affection was first revealed 3—6 segments below the irradiated level and only gradually there appeared symptoms of affection of irradiated segments of the spinal

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cord. An analysis has demonstrated, that in contrast to metastatic affection, radiation injury develops more slowly with gradual spread of the process lengthwise and crosswise in the spinal cord; for metastases more characteristic is extramedullary localization, whereas radiation injury always runs a course of an intramedullary process ration, whereas radiation injuries consists in the choice of conditions of irradiation of malignant tumors, in which the spinal cord is excluded from the zone of large doses.

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PRINCESSING DATE-- 20NOV70 UNCLASSIFIED

TITLE-KINETICS OF THE DISSOLUTION OF CALCIUM TUNGSTATE IN GXALATE ACID

AUTHOR-(04)-POTASHNIKOV, YU.M., GANDLSKIY, A.M., HOKHOSOYEV, H.V.,

COUNTRY OF INFO-USSR

SOURCE-ZF. NEGRG. KHIM. 1970, 15(2), 502-8

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS-CHEMICAL REACTION KINETICS, AQUEOUS SOLUTION, CALCIUM CHLORIDE, SCLUBILITY, TUNGSTATE, DXALATE

CENTREL MARKING-NO RESTRICTIONS

DECUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/1706

STEP NO---UR/0078/70/015/002/0502/0503

CIRC ACCESSION NE--APO115535

PROCESSING DATE-- 20NGV70 UNCLASSIFIED 2/2 010 CIRC ACCESSION NO---APOL15535 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. CAC SUB2 O \$U84.H SUB2 O FORMED WHEN CA NO SUB4.H SUB2 O WAS DISSOLVED IN AN AQ. BOLN, OF H SUB3 C 5032 & SUB4 AT 20-oddegrees. RATE OF CAWO SUB4. H SUB2 Q DESSULN. IS INDEPENDENT OF MIXING RATE AND IS LINEARLY PROPORTIONAL TO H SUB2 C SUB2 O SUB4 CONCN. IN THIS PROCESS, H SUB2 C SUB2 O SUB4 PERFORMS 2 FUNCTIONS, 1ST IT CAUSES SEPN. OF 2 SOLIDS, CAC SUB2 O SUB4 AND H SUB2 WO SUB4, AND 2ND IT REACTS WITH H SUB2 NO SUB4 TO GIVE H SUB2 (HO SUB3 IC SUB2 C SUB41). IN THE PRESENCE OF HCL, CACL SUB2 FORMS ALONG WITH H FACILITY DONETS. GUS. UNIV., SUB2 (WO SUB3 (C SUB2 D SUB4)). DONETSK. USSR.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

Name of the control o

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unc 621.791.856.31669.245

YELAGIN, V. M., KARTYUSHOV, B. I., and KOZLOVA, G. G., Moscow

"Statistical Analysis of the Effect of the Conditions of Argon-Arc Weiding on the Mechanical Properties of Joints"

Kiev. Avtomaticheskaya Svarka, No 7, Jul 72, pp 13-17

Abstract: An analysis was made of the effect of the welding method on the strength of samples of welded joints tested for static strongth by tension. The results are discussed by reference to tabulated data and diagrams showing the effects of welding current, welding rate, and welding are voltage on the mechanical properties of joints of Khi8H9T steel and Khi8H9T steel joints with Kovar (Fe-Hi-Co-Hn alloy). The strength of Kovar joints welded by the argon-arc method was found to be lower and the relative elemention higher in comparison with the deformed initial metal. Some characteristics of welded joints of KhiBN9T steel with Kovar are indicated. A method is suggested for determining the optimum parameters of the argon-arc welding method and the acceptable deviations from these parameters. It is shown that the mean square deviation of the investigated properties from their average value is the most important characteristic of quality and reliability of argon-arcwelded joints. The variation coefficient of the properties can serve as a criterion for weld quality. Six illustrations, six formulas, three tables, threee bibliographic references. 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

UDC 621.762.001(088.8)

USSR

YEYGRAFOV, A. V., KOPSAKOV, V. V., SKALDIH, B. A., ALEMSEYEV, G. I., KOZLOVA, G. R., and LEVANT, P. G.

"Instrument for Determining Concentration of Magnetic Fouder in Suspension" USSR Author's Certificate No 265554, Cl. 42 1, 13/04, (GOL n), filed 8 Aug 68, published 26 Jun 70 (from Elh-Motallurgiya, Ko 3, Mar 71, Abstract No 3G351P by A. Dpile)

Translations of the States of the properties and a description given of the where the collection of an instrument for determining the magnetic mondad 1988 to the control of the instrument contains a power unit, generator, poulty control of the instrument contains a power unit, generator, hafter and inflored on the clement, to courter, complifier, and indicator. To increase a communicant acousacy, assure kinerity of readings, and simplify the school of the larger and, it is supplied with a magnetimer in the form of two coexially saturated canadas per amont magnets. Two fedroprotes half-cells, countries who has deep a selection to the indicator, are installed in the magnet gap perpendicular to the arms of the angulate, with a wessel containing the ber positive under study mounted in the annular gap of the upper magnet. Two illustrations. 1/1

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One statement of the st

APPROVED FOR RELEASE: 08/09/2001

1/2 011 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE-SEPARATION AND PURIFICATION OF OPPANTOTHENIC ACID BY AN ION

EXCHANGE METHOD -U-

AUTHUR-(03)-ZHDANOVICH, YE.S., KUZLOVA, G.S., KIBALUVA, N.YU.

COUNTRY OF INFO--USSR

SOURCE-KHIM. FARM. 2H. 1970, 412), 27-9

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY

TOPIC TAGS--VITAMIN, CHEMICAL PURIFICATION, ION EXCHANGE

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS---UNCLASSIFIED PROXY REEL/FRAME---1993/0535

STEP HO--URZO450/10/00H/002/0021/0029

CIRC ACCESSION NO--APOILS426

PROCESSIONS OFFERS OF 110 UNCLASSIFIED 911 2/2 CIRC ACCESSION NU-APOLIBAZE ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. SEPN. OF D PARTOTHERIC ACTO (I) FROM A TECH. PRODUCT CONTG. 1 AS THE ET SUB2 NO SALT AND ISPERCENT BETA ALANINE (III WAS EXAMD. TESTS WERE CARRIED OUT USING KU 23 CATION EXCHANGER TA COPOLYMN. PRODUCT OF POLYSTYRENE WITH DIVINYLBENZEMET (H PRIME POSITIVE FORM). SURPTION ISOTHERMS OF ET SUB2 NH AND II WERE FIRST EXAMD. UNDER DYNAMIC AND STAFFC CONDITIONS. MOREOVER, THE EFFECT OF GRAIN SIZE OF THE CATIONITE ON THE SURPTION OF IT WAS IVESTIGATED, THE YIELD OF II AT 20, 40, AND SODESREES, AND THE SORPRIOR OF IT AS THE FUNCTION OF ITS CONCN. OVER THE PH RANGE 1.0-6.4. THE SURPTION OF IT INCREASED WITH INCREASING PH. THE SEPN. OF I WAS CARRIED DUT EN A 17 TIMES 290 MM COLUMN AT THE ELUTION RATE 5 ML-MIN. THE CONCN. OF I SALT AND II IN THE SOLN. WAS 0.3-0.4 AND 0.17 EQUIVS.-L. RESP. GODEGREES CONCO. ELUATES WERE OBTAINED. THERMAL STABILITY TESTS SHOWED THAT AT 37 AND GODEGREES A SPERCENT I SOLN. BEGAN TO DECOMP. AFTER 32 AND 3 HR. RESP. AT 20DEGREES THE OPTIMUM CONDITIONS WERE AS FOLLOWS: 10 G OF THE DRY CATIONITE. 95 ML IOPERCENT I SALT SOLNA, AND VOL. OF THE ELUATE 170 ML (PH 4.5). THE I AND II CONTENT OF THE ELUATE WAS 0.0378 (BBPERCENT YIELD BASED ON I SALT) AND 8.5 TIMES 10 PRIME NEGATIVES FACILITY: VSCS. NAUCH. ISSLED. VITAMIN. INST., G-HL., RESP. MUSCON, USSR.

UNCLASSIFIED

vicc 576.858.43

USSR

BEREZINA, O. N., SKLYANSKAYA, Ye. I., KOZLOVA, I. A., PETERSON, O. P., and ZHDANOV, V. M., Academician, Academy of Medical Sciences USSR

"Electrophoretic Separation of the Principal Proteins from Cells Infected with Different Viruses"

Moscow, Doklady AN SSSR, Vol 190, No 5, 1970, pp 1225-1228

Abstract: Changes in the synthesis of total histones and their fractions in nuclei of infected cells and in descayribonucleic acid complex were studied. The dynamics of accumulation and of changes in principal cytoplasm protein was studied also. One hour after infection the number of protein bands increases, most with moderate electrophoretic mobility. After 3 hrs, additional slow-noving bands appear, and this increase continues for 5 hrs. After 7 hrs, the protein bands begin to disappear, but various minor bands appear. Analogous results were observed 2h to disappear, but various minor bands appear. Analogous results were observed 2h hrs after infection with pox vaccine, some increase with influenza virus, and no hrs after infection with pox vaccine, some increase with influenza virus, and no change in protein bands with Herpes virus. After 46 hrs, no increase in the protein bands was noted. The results obtained correspond to the dynamics of accumulation of viruses in chick embryo tissue. Four histone fractions were isolated from infected tissues: lysine-rich histones - f₁, relatively hysine-rich fractions f₂₀ infected tissues: lysine-rich in arginine - f₃. Electrophoretic analysis of indicated fractions after the fraction shows that a continuous disappearance of lynine-rich fractions

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

USSR

BEREZINA, O. N., et al., Doklady AN SSSR, Vol 190, No 5, 1970, pp 1225-1223

 (f_1) occurs in cells infected with the pox virus and influenza vaccine, while in fractions f_{2a} and f_{2b} , additional principal and minor bands appear. The arginine-rich fraction in the infected material does not differ from that in controls.

1/2 012 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--ON STUDIES OF THE INDUCTOR OF DEPROTEINIZATION ENZYME OF VACCINIA
VIRUS NUCLEOCAPSID -U-

AUTHOR-(02)-PETERSON, O.P., KOZLOVA. I.A.

COUNTRY OF INFO--USSR

SOURCE-VOPROSY VIRUSOLOGII, 1970, NR 2, PP 156-161

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--VIRUS. ENZYME ACTIVITY, NUCLEIC ACID. PROTEIN. TRYPSIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/0744

STEP NO--UR/0402/70/000/002/0156/0161

CIRC ACCESSION NO--APO108950

UNCLASSIFIED

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PROCESSING DATE--18SEP70 UNCLASSIFIED 210 2/2 CIRC ACCESSION NO--AP0108950 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE EFFECT OF DIFFERENT PROTEDLYTIC ENZYMES ON THE INFECTIVE PROPERTIES OF VACCINIA VIRUS AND SOME FEATURES OF INDUCTION OF DEPROTEINIZATION FACTOR WAS STUDIED. ENZYMES SUCH AS TRYPSIN. CHEMOSTRYPSIN. CARBOPEPTIDASE WERE SHOWN TO CUASE DIGESTION OF SOME QUANTITY OF VIRUS PROTEIN WITHOUT, HOWEVER, ANY LOSS OF THE-INFECTIVE PROPERTIES AND WITHOUT DESTRUCTION OF THE CAPACITY OF VIRIONS TO INDUCE IN CELLS A FACTOR HELPING RELEASE OF VIRUS NUCLEIC PRONASE CAUSED MORE INTENSIVE DESTRUCTION OF VIRUS PROTEIN WHICH RESULTED IN A MARKED REDUCTION OF INFECTIVE PROPERTIES AS WELL AS THE CAPACITY TO INDUCE THE ENZYME OF DEPROTEINIZATION IN CELLS. USE OF LARGE DOSES OF THE ENZYME RESULTED IN A REDUCTION OF REACTIVABILITY OF THE TREATED VIRUS. THE REPRODUCTIVE CAPACITY OF THE VIRUS APPEARED TO BE ASSOCIATED WITH DEEPLY LOCATED PROTEIN STRUCTURES OF THE VIRION. CANNOT BE EXCLUDED THAT THE PROTEIN INDUCING THE "UNDRESSING" ENZYME IS LUCATED NOT IN THE EXTERNAL MEMBRANE OF THE VIRION BUT IN NUCLEOID

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MEMBRANE.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

1/2 021 UNCLASSIFIED PROCESSING DATE--239CT70
TITLE--ELECTROPHORETIC SEPARATION OF BASIC PROTEINS OF CELLS INFECTED WITH
DIFFERENT VIRUSES -U-

AUTHOR-(05)-BEREZINA, O.N., SKLYANSKAYA, YEJI., KDZLOVA, I.A., PETERSON,

O.P., ZHDANOV, V.M. COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 190(5), 1225-B YIROL

DATE PUBLISHED---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ELECTROPHORESIS, SMALLPOX, VACCINE, INFLUENZA VIRUS, HERPES SIMPLEX VIRUS, TISSUE CULTURE, PROTEIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/0704

STEP NO--UR/0020/70/190/005/1225/1228

CIRC ACCESSION NO--ATO122790

- WICLASSIFIED-

PROCESSING DATE--230CT70 .UNCLASSIFIED 021 CIRC ACCESSION NO--AT0122790 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ELECTROPHORESIS IN POLYACRYLAMIDE GEL WAS USED TO FRACTIONATE CHICK FIBROBLAST CULTURES GROWN ON MATRICES WITH ADDN. OF BULL SERA OR ON TISSUES FROM 11 DAY CHICK EMBRYOS. THE INFECTION WAS INTRODUCED INTO ALLANTOIDAL SPACE AND EMPLOYED THE VIRUS MATERIAL OF SMALLPOX VACCINE. INFLUENZA, OR HERPES. THE TYPICAL ELECTROPHOREGRAMS WERE SHOWN FOR THE TREATED CULTURES: THE CHANGES IN THE ACCUMULATION OF BASIC PROTEINS VARY WITH DURATION OF THE EXPT. WITHIN I HR OF INFECTION TO NO. OF SEPD. PROTEINS INCREASES MAINLY IN THE GROUP OF MEDIUM ELECTROPHORETIC MOBILITY; WITHIN 3 HR, PROTEINS WITH SLOW MOBILITY APPEAR AND BY 5 HR THE BASIC PROTEIN FRACTIONS EXCEED THOSE OF THE CONTROLS BY A FACTOR OF 4 OR MORE; BY 709 HR THE NO. OF DISTINCT PROTEIN ZONES DECLINES. BUT MINOR ZONES APPEAR AT THE SAME THE INCREASED TOTAL AMOUNT OF BASIC PROTEINS IS CAUSED BY TIME. INCREASED FRACTIONS OF HISTORES WITH MODERATE LEVELS OF LYSINE: IT IS PROBABLY THIS PROTEIN FRACTION THAT IS CONNECTED HITH THE INHIBITING ACTIVITY OF BASIC CYTOPLASM PROTEINS.

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USSR

VDC: 632.95

NOVIK, R. M., KOZLOVA, I. V.

"Polarographic Study of the Insecticide Nemagon (1,2-Dibromo-5-cholorpopane)

Probl. analit. khimii [Problems of Analytic Chemistry -- Collection of Works], Vol 2, Moscow, Nauka Press, 1972, pp 90-95 (Translated from Referativnyy Zhurnal Khimiya, No 24(II), 1972, Abstract No 24N577, by T. A. Belyayeva)

Translation: Alternating current polarography was performed on the KAP-225u polarograph to study the polarographic behavior of BrCH2BrCHCH2C1 (I) and determine the possibility of application of polarographic methods to the analysis of pesticidal preparatious based on I. In order to determine memagen in tap water, ten ml of the water to be analyzed is added to 1.3 g Na2SO3, mixed, transferred to an electrolyzer (polarographic cell with mercury bottom); a polarogram is measured in the potential interval from 0.0 to 1.0 v.

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USSR

WDC: 652.95

SYPIN, G. S., SISTER, Yu. D., KOZLOVA, I. V.

"Polarographic Methods of Analysis of Pesticides"

Probl. analit. khimii [Problems of Analytic Chemistry -- Collection of Works], Vol 2, Moscow, Nauka Press, 1972, pp 145-155 (Translated from Referativnyy Zhurnal Khimiya, No 24(II), 1972, Abstract No 24N574, by T. A. Belyayeva)

Translation: A review of literature data on the use of classical (differential and indirect) polarography, oscillating and alternating current polarography in the analysis of pesticides. The advantages of the use of oscillating polarography over classical polarography for the determination of residues of various pesticides are demonstrated. A summary table is presented on the application of polarography analysis of 70 pesticides. The possibility is demonstrated of using polarographic methods for the study of the mechanism of action and metabolism of pesticides.

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- 28 -

Pharmacology and Toxicology

USSR

UDC 577-1-612-8-015

KOZLOVA, L. A., and POGODAYEV, K. I., Second Moscow Medical Institute Imeni N. 1. Pirogov, Moscow Scientifid Research Institute of Psychiatry

"Aldolase and Lactate Dehydrogenase Activity and Lactic and Pyruvic Acid Content of Various Rat Brain Areas Under Corazcleinduced Convulsions"

Kiev, Ukrayins'kyy Biokhimichnyy Zhurnal, Vol 42, No 6, 1973, pp 692-696

Abstract: The article describes results of a study of the activity of glycolytic enzymes (fructose-1, b-diphosphate aldolase, fructose-1-monophosphate aldolase, lactate domycrogenese) and the lactic and pyruvic acid content of rat brain this second under repeated corazole-induced convulsions. Male albino rats weighing 200-250 g were used for the experiments. The repeated convulsions were induced by the subcutaneous injection of a 10-percent corazole solution at 40-60 mg per kg of weight. The results indicate that repeated corazole-induced convulcions are accompanied by a significant increase in aldolase and lactate

USSR

KOZLOVA, L. A., and POGODAYEV, K. I., Ukraying'kyy Biokhimichnyy Zhurnal, Vol 42, No 6, 1970, pp 692-696

dehydrogenase activity and lactic and pyruvid soid build-up in brain tissue. These indices may characterize the rate of derobic processes in the brain tissue. There is a rise in the lactate:pyruvate coefficient with repeated fits, after single and four convulsive states. The maximum shifts in the rate of glycolytic processes under repeated convulsions occur in the upper areas of the brain (cortex, interbrain).

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Acc. Nr: AC

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Ref. Code: UR 0300

PRIMARY SOURCE:

Ukrayns'kiy Bibkhimichniy Zhurnal, 1970, Vol 42, Nr 1, pp 60-65

ALDOLASE ACTIVITY, PYRUVATE AND LACTATE CONTENT IN THE RAT BRAIN DIFFERENT DIVISIONS WITH OVERSTRAIN OF THE CENTRAL NERVOUS SYSTEM

> K. I. Pogodayev, L. A. Kozlova, I. V. Chepingg The N. I. Pirogov II Medical Institute, Moscow

> > Summary

It the rat brain tissues the activity of aldolase of fructose-1-monophosphate and aldolase of fructose-1,6-diphosphate increases under the effect of repeating one-four times electroconvulsive attacks. The fatigue, which comes alker the animal run with the rotating drum, is characterized by the increase in the loctabe and pyruvate content and the rise of the coefficient value of lactate: pyruvate. It is established that with fatigue the intensity decrease in the aerobic processes of oxidation is compensated to some extent by the intensification of anaerobic glycolytic processes.

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VDC 582,507

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EPIK, E. Ya. and KOZLOVA, L. G.

"Possibility of Change of the Microstructure of a Turbulent Stream During Research on Convective Heat Exchange"

Teplofiz. i Teplotekhnika. Resp. Mezhved. Sb. (Thermophysics and Thermal Engineering. Republic Interdepartmental Collection of Works), No 2, 1972, pp 73-78 (from Referativnyy Zhurnal—Turbostroyeniya, No 1, 1973, Abstract No 1.49.116)

Translation: The case discussed involves the directional change of the turbulence characteristics of a stream (the levels and scales computed from the spectral distribution of the longitudinal-pulsation velocity component) by means of a turbulizing device (perforated disk) installed in front of a Vitushinskiy nozzle, with a ramming degree of 9 at the wind-tunnel entrance. A procedure is presented for measuring the turbulence characteristics of the stream with the use of thermoanemometric equipment. Three figures, nine references.

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USSR

VDC 536.24:532.526

DYBAN, Ye. P., EPIK, E. Ya., KUROSH, V. D., KOZLOVA, L. G.

"Heat Transfer and the Boundary Layer on a Curved Surface Under Increased Turbulence of the Free Flow"

V sb. <u>Vopr. obshch. i prikl. fiz.</u> (Problems in General and Applied Physics -- Collection of Works), Alma-Ata, "Nauka", 1972, pp 159-164 (from RZh-Mekhanika, No 6, Jun 72, Abstract No 6B800)

Translation: Results of experiments on the local and average heat exchange at the surface of a cylinder in a transverse air flow under a constant density of the formal flow over its perimeter are presented. If the turbulence of the incident layer is low (less than 0.5%), the results of experiments on heat exchange in the frontal point satisfactorily agree with the theoretical solution. An attempt is made to analyze the characteristics of the development of the boundary layer and heat transfer under increased turbulence of the flow. The feasibility of introducing the Reynolds number determined on the basis of turbulent pulsation of the velocity into the criterial equation is established. 13 ref. Authors abstract.

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Acc. Nr: APO040324

Ref. Code: UR 0481

PRIMARY SOURCE:

Eksperimental naya Khirurgiya i Anesteziologiya,

1970, Nr / , pp 67-7/

ON THE INFLUENCE OF LYSTHENON ON THE CARDIO-VASCULAR SYSTEM

V. V. Tayevskiy, L. I. Kastova A. S. Nikilorova

In 89 experiments on dogs the authors studied side effects of the relaxant on the cardio-vascular system using plethysmography and sphygmography. A marked vasedilatory action of lysthenon on the peripheral blood vessels and considerable stimulating effect on the heart were recorded. Effects are constant, transient and depend on the dose and the rate of intravenous administration.

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REEL/FRAME 19741755

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

UDC 632.954:631.445.2

BLIYEV, YU. K., KOZLOVA, L. M., Candidate of Biological Sciences, Leningrad Scientific Research Institute of Forestry

"Effect of Various Doses of Herbicides on Soil Fertility"

Moscow, Khimiya v sel'skom Khozyaystve, No 11, 1972, pp 50-53

Abstract: Results are presented from laboractry tests in 1958-1970 conducted to study the effect of ordinary and increased doses of herbicides recommended for application in forest nurseries on the nutritive regime of the soil. Tabulated data are presented for simazine, dalapone, and acadium trichloroacetate indicating their effect on the nitrate and amachiacal mitrogen content in the soil, the humus and total nitrogen content in the soil and the P205 and K20 content. The soil mechanisms giving rise to the results are discussed. When used in the recommended doses, the herbicides resulted in increased accumulation of nitrates after a month with maximum nitrate content in the version with a mixture of dalapone and 2,4-D. Twenty days after injection of the herbicides the ammoniacal nitrogen content increased sonewhat. In increased doses the herbicides inhibited the mitrate accumulation process in the soil for the first month. The strongest inhibiting effect resulted from a mixture of sodium trichloroacetate and 2,4-D. Intensifica-

BLIYEV, YU. K., and KOZLOVA, L. M., Khimiya v sel'skom khomymystve, No 11. 1972, pp 50-53

tion of the processes of mineralization of nitrogen-containing compounds was reflected deeply in the humus and total nitrogen content in the soil for both ordinary and increased doses of the herbicides. With increased doses of the herbicides a tendency toward an increase in the total nitrogen contant was noted. Under the effect of all the herbicides in ordinary and increased doses the content of available phosphorus increased and the exchangeable potassium decreased. Mixtures of dalapone or sodium trichloroacetate with 2,4-D and the simazine preparation in the recommended and increased doses did no harm to the nutritive regime of the soddy podzolic weakly loamy soil used in the tests.

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CIA-RDP86-00513R002201530005-3"

APPROVED FOR RELEASE: 08/09/2001

1/2 023 UNCLASSIFIED PROCESSING DATE--09GCT70
TITLE--ON PROBLEM OF INTERRELATION OF CORTEX EXCITABILITY AND THE
INTENSITY OF INNEK INHIBITION IN DOGS DURING UNTUGENY -U-

AUTHUR-KOZLOVA, L.M.

COUNTRY OF INFO--USSR

SOURCE-FIZIOLOGICHNIY ZHURNAL, 1970, VOL 16, NR 3, PP 303-311

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--CEREBRAL CORTEX, DOG, INHIBITION

CUNTRUL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--1994/1123

STEP NO--UR/0238/70/016/003/0303/0311

CIRC ACCESSION NO--APOLI5142

UNCLASSIFIED

PROCESSING DATE--090CT70 UNCLASSIFIED 2/2 023 CIRC ACCESSION NO--APO115142 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN TWO SERIES OF EXPERIMENTS THE CORRELATION OF THE INHIBITION PROCESS INTENSITY WAS STUDIED AT DIFFERENT METHODS OF ITS ESTIMATION WITH EXCITABILITY OF CEREBRAL HEMISPHERES CURTEX. 104 DOGS WERE INVESTIGATED AT THE AGE FROM 1 HONTH TO 1.5-5 YEARS. USING MOTOR FOOD METHODS. IT IS FOUND DUT THAT THE VALUE OF SUCCESSIVE INHIBITION IS STATISTICALLY TRUSTWORTHY IN CORRELATION WITH THE CORTEX EXCITABILITY AND CANNOT BE A CRITERION OF THE MOTOR PROCESS INTENSITY IN THE ONTOGENY. RATE OF INNER INHIBITION RESPONSE ALSO DEPENDS TO A CONSIDERABLY GREATER EXTENT ON THE CORTEX EXCITABILITY, INHIBITION PROCESS INTENSITY THAN ON THE INHIBITION PROCESS INTENSITY. IN ONE MONTH PUPPIES IS SMALL AND SHARPLY INCREASES BY 2 MONTHS. AT AN OLDER AGE THE INCREASE IN THE INHIBITION PROCESS INTENSITY CONSIDERABLY FALLS. AS THE CORFEX ACTIVITY DECREASES, THE INNER INHIBITION ALSO DEPARTMENT OF NORMAL PHYSIOLOGY, MEDICAL FACILITY: DROPS. INSTITUTE, BLAGOVESHCHENSK.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

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USSR

UDC 547.26:118

MIZRAKH, L. I., BABUSHKINA, T. A., YAKOVLEV. V. G., KORLOVA, I. N., YUKHNO, Ye. M., STAROSTINA, L. N., and YANOCHKINA, G. A.

*Phosphorus-Containing Derivatives of Isothiuronium. Thiourea with Diethyl Chlorophosphate and the Diethyl Ester of 2-Bromoethyl-

Leningrad, Zhurnal Obshchey Khimii, Vol 43, No 11, Nov 73, pp 2364-2367

Abstract: It was established that the metaphosphate of S-ethylisothiuronium formed upon the reaction of diethyl chlorophosphate with thicures. A study of the reaction of 0, 0-diethyl 2-bromethylphosphonate with thicures showed that in this reaction, as distinguished from that with alpha-halophosphonates (Mizrakh et al, Zh. Obshch. Khim., Vol 41, 2654, 1971), which proceeded in the opposite order, alkylation of thiourea with the haloalkyl group took place initially, while participation of the ester group of the alkylation occurred only under more severe conditions. On further heating of the product (EtO)2 P(0)CH2CH2. SC(NH2)2 Br that formed initially, EtBr evolved and the product O2F(OEt). CH2CH2SC(NH2)2 was obtained.

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CIA-RDP86-00513R002201530005-3"

APPROVED FOR RELEASE: 08/09/2001

Pathology

USSR

UDC 617.7-.681.092.4.001.57:519.24

AVETISOV, E. S., BUNIN, A. Ya., LUGOVSKOY, V. M., and KOZIOVA, I. P. Moscow Scientific Research Institute of Eye Diseases imeni Gel mgol'ts

"Possibility of Mathematical Modeling of the Process of Chunge in Intraocular Pressure in Primary Glaucoma"

Moscow, Vestnik Oftal'mologii, No 5, 1971, pp 10-16

Abstract: The proposed mathematical model of change in intraocular pressure (IOP) in different phases of primary glaucoma is based on two assumptions:
(a) the central factor in the pathogenesis of the disease is the progressive death of functional elements of the optic nerve and retina caused by metabolic change combined with high IOP; (b) the metabolic rate in eye tiesues and level of IOP are related in such a way that the former may increase when the latter rises slightly but decrease with further rise in IOP. Hence a rise in IOP may, with respect to the metabolic rate, be either compensatory or aggravating in nature. The dynamics of change in the average level of ICP over a fairly long period is useful for the early detection of glaucoma and objective evaluation of the course of the disease. For example, if tonograms obtained over a period of 1 to 1 1/2 years reflect a progressive rise in the average level of IOP, the presence of glaucoma can be considered confirmed. If the

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USSR

AVETISOV, E. S., et al., Vestnik Oftal'mologii, No 5, 1971, pp 10-16

diagnosis of glaucoma was established previously, the continued rise is an indication that the course of the disease is unfavorable.

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1/2 022 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--THE ROLE OF TONOMETRY IN EARLY DIAGNOSIS OF GLAUCOMA -U-

AUTHOR-(03)-AVETISOV, E.S., KOZLOVA, L.P., LUGOVSKOY, V.H.

COUNTRY OF INFO--USSR

SOURCE-VESTNIK OFTAL MOLDGII, 1970, NR 2, PP 41-44

DATE PUBLISHED ----- 70

SUBJECT AREAS-BIULOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--EYE DISEASE, DIAGNOSTIC MEDICINE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY PEEL/FRAME--1986/0834

STEP NU--UR/0357/70/000/802/0941/0044

CIRC ACCESSION NO--APOTO2795

UNCLASSIFIED

2/2 022 UNCLASSIFIED PRUCESSING DATE -- 0200170 CIRC ACCESSION NO--APOLO2195 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TONOGRAMS TAKEN IN PERSONS WHO HAD BEEN UNDER OBSERVATION FOR 2-8 YEARS IN CONNECTION WITH SUSPECTED GLAUCOMA WERE USED IN EVALUATING THE ROLE OF TONOMETRIC INVESTIGATIONS FOR AN EARLY DIAGNOSIS OF GLAUCOMA. ONE GROUP INCLUDED 20 SUBJECTS WITH THE DIAGNOSIS OF GLAUCOMA VERIFIED IN THE COURSE OF OBSERVATION, THE OTHER ONE EMBRACING 20 PERSONS IN REGARD TO WHOM THE DIAGNOSIS OF GLAUCOMA DID NOT FIND CONFIRMATION. TO STATISTICAL ANALYSIS WERE SUBJECTED TONOGRAMS OBTAINED IN PRIMARY DIURNAL TONOMETRY COVERING A PERIOD OF 5 DAYS. THE LEVEL OF INTRAOCULAR TENSION AND ITS DAILY AND WEEKLY RANGE WERE STUDIED. A TOTAL OF 400 TONOGRAMS, 200 FOR EACH GROUP, WERE SCRUTINIZED. THESE INVESTIGATIONS DEMONSTRATED THAT IN BORDER LINE CASES DIURNAL TONOMETRY ALONE CANNOT BE REGARDED A SUFFICIENTLY RELIABLE CRITERION FOR AN EARLY DIAGNOSIS OF GLAUCOMA.

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1/2 016 UNCLASSIFIED

PROCESSING DATE--230CT70

ITLE--PYRIDAZINE RING SIZE - EDUCTION OF

1, PHENYL, 3, ETHLXYCARBONYL, 2, 6, 7, 8, TETRAFLUORO, 4, 1H, CINNOLINONE -U-

UTHOR-(02)-PRUDCHENKO, A.T., KOZLOVA. L.P.

OUNTRY OF INFO--USSR

DURCE--ZH. OBSHCH. KHIM. 1970, 40(3), 680-2

ATE PUBLISHED----70

UBJECT AREAS--CHEMISTRY

OPIC TAGS--FLUORINATED DRGANIC COMPOUND, HETEROCYCLIC NITROGEN COMPOUND, ZINC, INDOLE, CARBOXYL RADICAL, CHEMICAL REDUCTION

.ONTROL MARKING-NO RESTRICTIONS

OCUMENT CLASS--UNCLASSIFIED ROXY REEL/FRAME--2000/0937

STEP NO--UR/0079/70/040/003/0680/0632

IRC ACCESSION NU--AP0124597

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--23OCT70
IRC ACCESSION NO--APO124597
IBSTRACT/EXTRACT--(U) GP-O- ABSTRACT. HEATING THE TITLE COMPO. (I) WITH
ZN DUST IN ACOH TRACE HCL 1.5 HR GAVE 48PERCENT ET
1-PHENYL-3-HYDROXY=4,5,6,7-TETRAFLUOROINDILE 2-CARBOXYLATE (II). M.
135-6DEGREES, WHICH WITH AC SUB2 O-KOAC 4 HR GAVE 62PERCENT 3-ACETOXY
ANALOG, M. 94.5-6DEGREES, WHILE REDN. OF II WITH NAGH SUB4-MEOH 24 HR
GAVE ME 1-PHENYL-3-HYDROXY-4,5,6,7-TETRAFLUOROINDOLE-2-CARBOXYLATE, M.
186-8DEGREES. FACILITY: NOVOSIBIRSK. INST. ORG. KHIM.,

17 160

1/2 008

UNCLASSIFIED

PROCESSING DATE--230CT70

TITLE--NEW SYNTHESES INVOLVING ORGANIZING COMPOUNDS, VIII, SYNTHESIS OF

ALPHA ALKOXYMETHYL SUBSTITUTED DICARBOXYLIC ACID ESTERS ---

AUTHOR-102)-LAPKIN, I.I., KOZLOVA, L.S.

COUNTRY OF INFO--USSR

SOURCE--ZH. DRG. KHIM. 1970, 6(3), 453-4

DATE PUBLISHED ---- 70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS-ORGANOZING COMPOUND, CHEMICAL SYNTHESIS, DICARBOXYLIC ACID, ESTER, BROMINATED ORGANIC COMPOUND, CHLORINATED ORGANIC COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1668

STEP NU--UR/0366/70/006/003/0453/0454

CIRC ACCESSION NO--APOL12662

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2/2 008 UNCLASSIFIED PROCESSING DATE--230CT70
CIRC ACCESSION ND--APO112662
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE REACTION OF RD SUB2 CCH SUB2
CHBRCO SUB2 R HITH POND. ZN GAVE RD SUB2 CCH SUB2 CR FRIME SUB2 CH SUB2 CR FRIME TO GIVE
49-77PERCENT RO SUB2 CCH SUB2 CHICH SUB2 OR PRIME TO GIVE
SIMILARLY, BUO SUB2 CCH SUB2 CHICH(OME)ME)CO SUB2 BU AND BUO SUB2 CCH
SUB2 CH(CHICME)CHME SUB2)CO SUB2 BU WERE PREPD. FACILITY: PERM.
GOS. UNIV., PERM. USSR.

ÚSSR

UDC 615.849.2+616-073.916:546.79

BOCHKAREV, V. V., LEVIN, V. I., STANKO, V. I., SEDOV, V. V., KHARLAMOV, V. T., KOZLOVA, M. D., and TARASOV, H. F., Institute of Hiophysics, Hinistry of Health USSR

"New Radiopharmaceuticals and Prospects for Their Climical Use"

Moscow, Meditsinskaya Radiologiya, No 1, 1972, pp 4-12

Abstract: Description of the methods of preparation and most important properties of some recent Soviet-developed radioactive drugs based on relatively short-lived isotopes: (a) In III preparations for liver (colloidal solution) and kidney (citrate complex) scanning; (b) iodobenzoic acid with III to study liver detoxification function; (c) colloidal solution of Pal03 for prelonged and uniform preoperative irradiation of tumors of different sites and sizes; (d) combined eleophilic preparations with different isotopes (Y90, InIII, pd103, au198) for local irradiation of lymph nodes; (e) X-ray contrast media, iodo-ethiol and iodolinethol, to visualize lymph nodes; (f) resorptive beta applicator with y90 for the treatment of eye tumors (clinical trials of the applicator in a group of patients with melanoblastomas showed complete or partial resorption of the tumor and no recurrences during the observation position from months to 2 years). Improvement in the technology of preparing two important 1/2

USSR



BOCHKAREV, V. V., et al., Meditsinskaya Radiologiya, No 1, 1972, pp 4-12

diagnostic agents containing I^{131} albumin macroaggregates (used for scanning in many lung diseases) and polyvinylpyrrolidone (used in the diagnosis of exudative enteropathy and other diseases) has resulted in marked enhancement of their quality.

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2.3

Analysis and Testing

USSR

UDC 669.1.541.015

LASHKO, N. F., SASLAVSKAYA, L. V., KOZLOVA, M. N., MOROWOVA, C. I., SORCKINA, K. P., KHAKHLOVA, N. V., and YAKOVIEVA, TE. F.

"Physical and Chemical Methods of Phase Analysis of Stemls and Alloys"

Fiziko-Khimicheskiye Metody Fazovogo Analiza Staley i Splavov (English version above), Moscow, Metallurgiya Press, 1970, 476 pages

Translation of Annotation: Methods of combined physical and chemical phase analysis are systematized and summarized, including methods of phase separation and their chemical and x-ray structural analysis.

Problems of the theory of electrochemical separation of phases, the principles of selection of electrolytes, and methods of phase analysis are analyzed as applicable to various steels and alloys.

The book is designed for scientific workers of scientific research institutes and plant laboratories involved in the development of steels and alloys, as well as the study of their properties depending on their phase composition.

99 figs, 100 tables, 708 biblio refs.

1/6

| | USSR | | |
|---|--------------------------|--|----------|
| | IASJKO, N. i Splavov, | F., et al., Fiziko-Khimicheskiye Metody Fazovogo Analiza Metallurgiya Press, 1970, 476 pages. | . Staley |
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| | | Multiphase Alloys Methods of Separation of Phases and Phase Amalysis of Steels without Weighing of Specimens (Parts) and | 68 |
| | 2/6 | Isolated Upsetting | 78 |
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| USSR | | |
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| LASHKO, N. i Splavov, | F., et al., Fiziko-Khimicheskiye Ketody Fazovogo Amaliza Metallurgiya Press, 1970, 476 pages. | Staley |
| Chapter 4. Chapter 5. Chapter 6. | Methods of Determining Chemical Composition and Number of Phases of Alloy Following Their Separation Methods of Testing Reliability and Accuracy of Physical and Chemical Phase Analysis Diffraction Methods of Phase Analysis Primary Types of Chemical Compounds in Alloys Based on Various Metals Phase Analysis of Alloys Based on Iron Primary Problems of Isolation of Carbides from Carbon and Alloy Steels Dispersion of Grains and Structures of Steels Isolation and Specific Features of Residual Austenite Isolation of Ferrite from Autenitic-Ferritic Steels Determination of Phase Composition and Distribution of Alloying Elements in Austenitic Heat-Resistant Steels in the System Fe-Cr-Mn-Ni-V-Nb-Mo-Method Containing | 92 100 112 144 |
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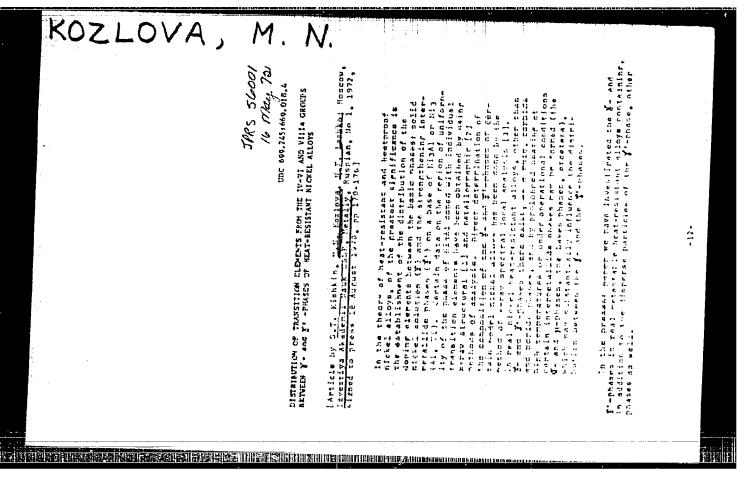
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USSR

UDC: 669,245:669.018.1

KISHKIN, S. T., KOZLOVA, M. N. and LASHKO, K. F., Moscow

"Distribution of Transition Elements of Groups IV-VI and VIII Between γ- and γ'-Phases of High-Temperature Nickel Alloys"

Moscow, Izvestiya Akademii nauk SSSR, Metally, No 1, Jan-Feb 72, pp 170-172

Abstract: In the theory of alloying high-temperature and refractory nickelbase alloys, primary importance is attached to determining the distribution of alloying elements between the principal phases: the solid nickel solution γ and the strengthening intermetallide phases γ' . This study deals with the composition of γ - and γ -phases in real metastable high-temperature alloys containing, in addition to the disperse Y'-phase particles, also other phases (o-, u- and Laves phases). The composition of the Mi_Albase y'-phase in high-temperature nickel-chrome alloys is specific of each alloy. The Al: Ti ratio in the Y'-phase of these alloys is close to that in the alloy itself. The capacity of the elements of the transition groups to form the γ^{i} -phase, determined from the ratio of their content in both y- and y'-phases, diminishes with the rising number of the group in the periodic system (with the exception of cobalt). Within the limits

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USSR

KISHKIN, S. T., et al, Izvestiya Akademii nauk SSSR, Metally, No 1, Jan-Feb 72, pp 170-172

of a given group the γ' -forming capacity of the elements increases with the period (V and VI groups). Substituting titanium for some of the aluminum reduces the element content of the VIa group in the γ' -phase and accordingly increases their content in the γ -phase. (3 tables, 9 bibliographic references).

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...E.K...

USSR UDC: 587.310.60

SAVITSKIY, Ye. M., BARON, V. V., PROLOV, V. A., MOZLOVA, N. D.

"Effect of Aluminum on the Superconducting and Mechanical Properties of Niobium and Titanium Alloys"

Moscow, Sverkhprovodyashchiye splavy i soyedin.--stornik (Superconductive Alloys and Compounds--collection of works), "Nauka", 1972, pp 111-315 (from RZh-Radiotekhnika, No 12, Dec 72, abstract No 12D553 [résunf])

Translation: An investigation was made of alloys in the nichian-titanian-aluminum system in the B-solid solution region adjacent to the nichian-titanium side with a constant ratio Ti/kb = 45/55 and aluminum concentration up to 7.2% by weight. The introduction of aluminum reduces the superconductive transition point in the alloys in both the dust and annealed state. The critical current of the alloys is also reduced. The density of the alloys increases with introduction of aluminum, and there is little change in ductility. Three illustrations, one table, bibliography of seven titles.

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UDC 669.293.5,295.018.58

BYCHKOVA, M. I., KOZLOVA, N. D., LYSENKO, Ye. N., BARON V. V., SAVITSKIY, Ye. M., TUREVSKTY, V. M.

"Screening Properties of Alloys in the Niobium-Titanium System"

Probl. Sverkhprovodyashch. Materialov [Problems of Superconducting Materials -- Collection of Works], Moscow, Nauka Press, 1970, pp. 166-172. [Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 1783 by the authors).

Translation: The distribution of the magnetic field in superconducting magnets for quantum paramagnetic amplifiers using screening plates of Nb-Ti alloys is studied. It is demonstrated that screens of NT-1 alloy can partially screen the field and significantly improve its homogeneity. With a magnetic field intensity of 4,000 ce, a homogeneity of 10^{-3} was produced in a volume of $5\times8\times120$ mm. 5 figs; 1 table; 13 biblio refs.

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USSR

UDC: 537.312.62

BYCHKOVA, M. I., KOZLOVA, N. D., LYSENKO, Ye. N., BARON, V. V., SAVITSKIY, Ye. M., TUREVSKIY, V. M.

"Shielding Properties of Alloys in the Niobium-Titanium System"

V sb. Probl. sverkhprovodvasheh. materialov (Problems of Superconducting Materials—collection of works), Moscow, "Nauka", 1970, pp 166-172 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5D569)

<u>Translation</u>: The authors study the distribution of the magnetic field in superconducting magnets for quantum paramagnetic amplifiers with the use of shielding plates made from niobium-titanium alloy. It is shown that shields of NT-1 alloy can partially screen the field and appreciably improve field homogeneity. At a magnetic field strength of 4,000 oersteds, a uniformity of 10^{-3} is obtained in a volume of $5 \times 8 \times 120$ mm. Five illustrations, one table, bibliography of thirteen titles. Resume.

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153 -

UDG 537,312.62:669.293

BYCHKOVA, M. I., KOZLOVA, N. D., LYSENKO, Ye. N., BARON, V. V., SAVITSKIY, Ye, M., and TUREVSKIY, V. M.

"Screening Properties of Alloys in the Niobium-Titanium System"

Problemy Sverkhprovodyashchikh Materialov [Problems of Superconducting Materials -- Collection of Works], Moscow, Nauka Press, 1970, pp 166-172

Translation: The distribution of the magnetic field im superconducting magnets was studied for quantum paramagnetic amplifiers using screening plates of niobium-titanium alloy. It was shown that shields of NT-1 alloy can partially screen a field and significantly improve its homogeneity. With a magnetic field intensity of 4,000 oe, a homogeneity of 10+3 was produced in a volume of 5 x 8 x 120 mm.

5 figures, 1 table, 13 biblio. refs.

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- 88 --

VDC 621.515:628,517,2

KUDRYAVTSEV, F. S., Engineer, LAGUNOV, L. F., Candidate of Technical Sciences, SOLOV'YEV, R. V., Engineer, and KOZLOVA, N. G., Engineer

"Exhaust-Noise Muffler for a Compressor Station"

Moscow, Vestnik Mashinostroyeniya, No 7, June 1972, pp 31-32

Abstract: The compressor station of the Gor'kly Motor Vehicle Plant has three turbine compressors, each with a capacity of 500 m³/min and one with a capacity of 250 m³/min; the air exhaust ducts leading out of the compressor-station building are directed toward the office building of the plant management, situated in the immediate vicinity. The frequency spactrum of the exhaust noise of a 500 m³/min compressor, measured at a distance of 2 m from the wall of this office building, was above the permissible maximum; it was necessary to reduce the noise level at 1,000, 2,000, 4,000, and 8,000 Hz by 57, 59, 60, and 57 db, respectively. A muffler of simple design was constructed, the exhaust air being passed through layers of rubble and brushed stone. The muffler was designed for suppression of the noise created by a single compressor, since the air was exhausted by each compressor in turn. The calculations involved in designing the muffler are presented, and the

- 93 -

KUDRYAVTSEV, F. S., et al., Vestník Mashinostroyeniya, No 7, June 1972, pp

muffler is described. It was impossible to conduct tests on the efficiency of the muffler near the office building, i.e., at the point for which all the calculations had been made, due to noise created by the air intake ducts, for which the appropriate mufflers had yet been installed. However, results of measurements conducted near the muffler, and calculations based on these measurements, show that this exhaust-noise muffler provides the required noise reduction over the entire frequency range. 3 figures, 2

2/2

UDC 620.193.5

MIGAY, L. L., KOZLOVA, N. N., LYAPUNOV, A. I., MAL'CHEVSKIY, YE. G., BEKETOV, B. I., State Scientific Institute of the Rare Metal Industry

"Oxidation of Heat-Resistant Steels and Alloys"

Moscow, Zashchita Metallov, Vol 8, No 6, 1972, pp 722-723

Abstract: A study was made of the oxidation rate of neveral standard and experimental steels and alloys in a current of technical oxygen and in a calm air atmosphere at 1000°. Sheet specimens 2 mm thick were used to determine the oxidation resistance by the increase in mass after oxidation and its loss after removal of the scale.

The difference in oxidation resistance of the investigated materials in a calm air atmosphere is not so great as in technical daygen. The Kh25N2082 chronium-nickel steel alloyed with silicon is the least exidation resistant, and materials alloyed with aluminum were the most oxidation resistant. Analogous results were obtained during prolonged experiments in the air for 5000-10,000 hours [N. N. Kozlova, et al., Struktura i svoyatwa zharoprochovkh metal-licheskikh materialov, Moscow, Nauka, 300, 1967]. The Oxal382Yu2BT (LP 676) steel without nickel and KhN45Yu (EP 747) alloys sparingly alloyed with nickel 1/1

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шс 669.18.001.51669.14.015.853

KOZLOVA. N. N., LYAPUNOV, A. I., MASLENKOV, S. B., and BELYAYEVA, V. A.

"Oxidation Resistance of Steels in the System Fe-Cr-Ni-Al as a Function of Rela-

Spetsial nyye Stali i Splavy [Special Steels and Alloys--Collection of Works], No 77, Metallurgiya Press, 1970, pp 27-32

Translation: Alloys in the system Fe-Cr-Ni-Al were studied in the $1000-1250\,^{\circ}\text{C}$ temperature interval. The principal regularities of the influence of alloying elements on the oxidation resistance of the alloys were established, and the dependence of oxidation resistance and phase composition of scale on the relationships of alloying elements was demonstrated. 4 figures; 2 tables; 2 biblio. refs.

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Organophosphorous Compounds

USSR

UDD 541,128 +547.451

HEL! HICHENKO, I. V., KOZLOVA, N. YA, and YASNIKOV, A. A.

"Hydrolysis of Phosphate Ester of Glyceraldehyde in the Presence of Aronatic

Kiev, Ukrainskiy Khimicheskiy Zhurnal, Vol 38, No 11, 1972, pp 1152-1155

Abstract: In contrast to results of earlier studies of the hydrolysis of the phosphate ester of glyceraldehyde (FCA) in the presence of salt buffers, aliphatic amines and diamines, FGA hydrolysis with various arcmatic amines yielded a new type of catalysis. Hydrolysis of FGA was conducted in an acqueous solution at 40° in a pH interval 4-10. FGA hydrolysis kinetics were neasured with the following amines; o-, m-, p-phenylenediamine, antiline, o- and p-aminophenol. p-nitroaniline, alpha-aminopyridine, N,N diethyl-pphenylenediamine, quinone, hydroquinone, and p-nitrophenol. Reaction rate in the reaction mixture was proven by adding 2,4-dinitrophenylhydrazine to the reaction mixture. The resultant methylglyoxal hydrazone was identified on the basis of rate dependance on pH. The first group(p-phenylenediamine,

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MEL'NICHENKO, I. V., et al., Ukrainskiy Khimicheskiy Ehurnal, Vol 38, No 11, 1972, pp 1152-1155

p-aminophenol) shows a sharp maximum in the reaction rate in the pH 5-7 range. The second (aniline, o- and m-phenylenediamine, 0-aminophenol, p-notroaniline) show only a slight maximum in reaction rate in the pH 7 range. The third group(alpha-aminopyridine, N,N diethyl-p-phenylenediamine, p-nitrophenol, quinone, hydroquinone), like the buffer salts show little if any significant catalytic activity. Thus, the most effective catalysts are p-phenylene diamine and p-aminophenol. The end of the hydrolysis is due to the formation of dihydroxyacetone phosphate. The rate of hydrolysis is directly proportional to the concentration of p-phenylenediamine, with addition of acetate, pyridine, and aniline showing no effect on the reaction rate in the presence of p-phenyl-

p-Phenylenediamine and p-aminophenol sharply differ from other catalysts studied not only in the rate of catalysis but also in the very shape of their curve of reaction rate dependence on pH. This specific catalysis appears to be maninfested only in the para structure. Thus the action of these catalysts is connected with their formation of quinoid intermediates. The lack of

- 16 -

MEL'NICHENKO, I. V., et al., Ukrainskiy Khimicheskiy Zhurmal, Vol 38, No 11, 1972, pp 1152-1155

catalysis by o-substituted amines is explained by the instability of the o-quinoid intermediates. A scheme for quinone formation via hydride ion transfer is given. At ph 5.9 the raction rate is limited by the rate of acid-catalyzed dehydration. At lower ph levels hydrolysis—rate is lowered due to protonation of the amine. The existence of a reaction rate dependence on ph rules out quinone formation as a limiting factor in FGA hydrolysis. The catalytic activity of aniline and other similar catalysts in FGA hydrolysis is similar to the catalytic activity of butylamine.

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UDC 546,46'621'831'21

SUVOROV, S. A., KLYUCHAROV, YA. V., and KOZIOV

"Distribution of Magnesium Oxide in Compounds in the System ${\rm Mg0-Al_20_3-Zr0_2"}$

Moscow, Neorganicheskiye Materialy, Vol 7, No 4, Apr 71, pp 659-

Abstract: Phase conversions were studied in the trinary system MgO-Al₂O₃-ZrO₂ as functions of the chemical activity of the initial components. In order to exclude the influence of an excess of any given component, they were mixed in equal molar ratios. The distribution of magnesium oxide in complex compounds of the composition MgO: Al₂O₃: ZrO₂ = 1:1:1 was found to depend on the chemical activity of the initial components and to be accompanied by the formation of both magnesial-alumina spinel and solid solutions of MgO in ZrO₂. The greatest quantity of solid solution of magnesium oxide in zirconium diexide is formed in complex compounds involving magnesium oxide annealed at 17500

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USSR

SUVOROV, S. A., et al., Neorganicheskiye Materialy, Vol 7, No 4, Apr 71, pp 659-664

C, electrically melted corundum, and nitric acid zirconium. By using components with various chemical activities, it is possible to change the final phase composition of compounds in the $\rm Mg0-Al_20_3-Zr0_2$ systems with identical initial material composition. The course of curves of thermal expansion of these compounds depends directly on the phase composition.

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SUVOROV, S. A., KLYUCHAROV, YA. V., and KOZLOVA, O. B.

"Distribution of Magnesium Oxide in Compounds in the System ${\rm Mg0-Al}_2{\rm O}_3{\rm -ZrO}_2{\rm ''}$

Moscow, Neorganicheskiye Materialy, Vol. 7, No 4, Apr 71, pp 659-664

Abstract: Phase conversions were studied in the trinary system Mg0-Al₂0₃-Zr0₂ as functions of the chemical activity of the initial components. In order to exclude the influence of an excess of any given component, they were mixed in equal molar ratios. The any given component, they were mixed in complex compounds of the composition of magnesium oxide in complex compounds of the composition Mg0: Al₂0₃: Zr0₂ = 1:1:1 was found to depend on the chemical activity of the initial components and to be accompanied by the formation of both magnesial-alumina spinel and solid solutions of Mg0 in Zr0₂. The greatest quantity of solid solution of magnesium oxide in zirconium dioxide is formed in complex compounds involving magnesium oxide annealed at 17500 1/2

SUVOROV, S. A., et al., Neorganicheskiye Materialy, Vol 7, No 4, Apr 71, pp 659-664

C, electrically melted corundum, and nitric acid zirconium. By using components with various chemical activities, it is possible to change the final phase composition of compounds in the MgO-Al₂O₃-ZrO₂ systems with identical initial material composition. The course of curves of thermal expansion of these compounds depends directly on the phase composition.

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Ref. Code: UR 0213

PRIMARY SOURCE: Okeanologiya, 1970, Vol 10, Nr 1, pp 86 - 98

Yu. A. BOGDANOV, O. G. KOZLOVA, V. V. MUKHINA DISTRIBUTION AND COMPOSITION OF SUSPENDED MATTER IN THE NORTHERN AND CENTRAL INDIAN OCEAN

Summary

Some results are presented of the studies of suspended matter collected with the aid of separation and membrane filtration from the ocean surface and from different ocean depths. The distribution of suspended matter in the surface water is irregular. Its maximum amounts are confined to the near-shore areas, while in the central open parts of the ocean, to the areas of the rich development of planktonic organisms. Two types of the distribution of suspended matter in depth have been established depending on its material composition.

Different components of suspended material, siliceous, carbonate and terrigenous, are characterized and their distribution and role in the accumulation of sediments are determined.

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UDC 8.74

VORONIN, YU. A., KOZLOVA, O. S.

"Software for a Computer for Solving Districting Problems"

V sb. Primeneniye mat. metodov i EVM pri poiske polezn, iskopayemykh (Application of Mathematical Methods and Computers for Prospecting Minerals—collection of works), Novosibirsk, 1972, pp 180-199 (from RZh-Kibernetika, No 12, Dec 72, Abstract No 12V484)

No abstract

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UDC 621.762.669.018.5(088.8)

USSR

RABKIN, V. B., KOZLOVA, R. F.

"Cermet Alloy Based on Molybdenum"

USSR Author's Certificate No 309062, filed 27 Nov 69, published 15 Sep 71, (from RZh-Metallurgiya, No44, Apr 72, Abstract No 4G419P)

Translation: A cermet alloy is proposed for junctions with ceramics in electrovacuum device assemblies. In order to achieve a coefficient of thermal expansion of the alloy equal to the coefficient of thermal expansion of aluminum oxide ceramic, the alloy components are taken in the following ratio: 36-40% Cu, 6-7% Ni, and the rest Mo.

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CIA-RDP86-00513R002201530005-3" APPROVED FOR RELEASE: 08/09/2001

UDC: 8.74

USSR

KOZLOVA, S. I.

"Sorting of Economic Information in a Digital Computer by a Merge Method"

V sb. Teoriya i praktika sbora, peredachi i obrabotki ekon, inform. (Theory and Practice in the Collection, Transmission and Processing of Economic Information--collection of works), Moscow, 1971, pp 83-92 (from RZh--Kibernetika, No 4, Apr 72, Abstract No 4V545)

Translation: The paper analyzes the problem of uniting two ordered data blocks into a single common ordered data block. The author gives an analysis of the effectiveness of the nerging method for groups with different numbers of elements, and refines the analytical estimates of the effectiveness of sorting by the merging method for two ordered groups with identical numbers of elements presented previously by L. S. Lozinskiy (Kibernetika, 1965, No 3). Formulas are derived which indicate the average number of comparisons required to merge two groups with equal and unequal numbers of elements, and the average number of displacements is determined for forming a common sequence from two groups. Estimates are given for internal sorting of an unordered sequence of N = 2N elements

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UDC 613.63+615.9+057+612.014.46

RUMYANTSEV, G. I., and KOZIOVA, T. A., Chair of General Hygiene, First Moscow Medical Institute imeni I. M. Sachenov

"Some Results of Research on the Combined Effects of Toxic Substances on the Body"

Moscow, Gigiyena i Sanitariya, No 10, 1971, pp 36-40

Abstract: While there is substantial information available concerning the effects of various toxic substances and physical factors acting in isolation, comparatively little has been done on the effects of the combined action of several toxic substances or of a toxic substance plus one or more physical factors. Some recent work, briefly described in the article, dealt with the effects of: various combinations of toxic substances on animals and combinations of these substances with high ambient temperatures; low concentrations of sulfur dioxide and carbon monoxide/nitric oxide; sulfur dioxide combined with high ambient temperatures; benzene and acetone, toluene, and epichlorohydrin; low concentrations of fumes of solvents, saturated and unsaturated hydrocarbons combined with sulfur dioxide and high temperatures. A great deal of attention is now focused on the effects of toxic agents on general resistance (as determined by the phagocytic activity of leukocytes, an 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

USSR

RUMYANTSEV, G. I., and KOZLOVA, T. A., Gigiyena i Sanitariya, No 10, 1971, pp 36-40

important index of natural immunity), the mutagenic activity of toxic chemicals (as measured by chromosome aberrations), chronic action of low concentrations of chemical compounds at maximum permissible concentrations, and the effects of toxic substances entering the body through different routes.

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UDC 547.26'118

USSR

GRAPOV, A. F., KOZLOVA, T. F., MEL'NIKOV, N. N.

"Alkoxy- and Alkylthiomethylthiophosphonic Acid Dichlorides"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 3, Mar 73, p 676

Abstract: The best method for the synthesis of thiophosphonic acid dichlorides is by heating the corresponding phosphonic acid dichloride with phosphorus pentasulfide to 120-160°. Following acid dichlorides have been synthesized, parent acid, b.p., n25, and d25 being reported: methoxymethylthiophosphonic, 34-35°/0.12 mm, 1.5548, 1.4262; ethoxymethylthiophosphonic, 34-35°/0.12 mm, 1.5358, 1.3512; ethylthiomethylthiophosphonic, 66-67.5°/0.12 mm, 1.5852, 1.3797; isopropylthiomethylthiophosphonic, 82-82.5°/0.17 mm, 1.5702, 1.3392; and butylthiomethylthiophosphonic acid, 85-86°/0.17 mm, 1.5622, 1.2975.

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41

UDC: 547.241

KOZLOVA T. F., GRAPOV, A. F., MEL'NIKOV, N. N., All-Union Scientific Research Institute of Agents for Plant Protection

"The Reaction of O-Methyl Dichlorophosphite With Alkyl Chloromethyl Ethers, Catalyzed by Boron Trifluoride Etherate"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 6, Jun 72, pp 1282-1285

Abstract: The authors studied the reaction of alkyl chloromethyl ethers with methyl dichlorophosphite, catalyzed by the etherate of borom triflucride. When the reaction mixture is heated for several hours at \$0.100°C, alkowymethylphosphonic acid dichlorides are formed in 25.5% yield. The reaction is apparently analogous to the Arbuzov reaction. The electrophilic boron trifluoride facilitates formation of an intermediate pseudophosphonium complex.

CH3OFCL2 + ROCH2CL+ BF3 --- CH3-CD -CL CL ROCH2CL + CH3CL + 2F3

Aniline in an ether solution readily converts the alkoxymethyl phosphonic acid dichlorides to the corresponding disnilides.

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The authors thank V. V. Negrebetskiy for studying the ner spectra of the conpounds.

UDC 632.951.2.07

USSR

KOZLOVA, T. F., SHAKHOVA, G. B., BELUGIN, V. F., ZHELONKIN, V. G., and

"Synthesis of the Koral Insecticide"

Moscow, Khimicheskaya Promyshlennost', No 6, 1971, pp 29-30 (429-430)

Abstract: Koral -- 0,0-diethyl-3(3-chloro-4-methylcoumaryl-7) thiophosphate is an insecticide of low toxicity in respect to cattle, when applied externally. The synthesis of this material consists of four steps; preparation of 0,0-diethylchlorothiophosphate (I) by the reaction of thiotrichlorophosphorus with ethanol; synthesis of a-chloroacetoacetate from acetoacetate and sulfuryl chloride followed by condensation with resordinol to yield 3-chloro-7-hydroxy-4-methylcoumarine (II) and finally condensation of (I) 3-chloro-7-hydroxy-4-methylcoumarine in aceton containing potassium carbowith (II) by refluxing their mixture in aceton containing potassium carbowith (II) by refluxing their mixture in aceton containing potassium carbowith (II) say a white powder, m.p. 92-92.5°C. It is practically insolunate. Koral is a white powder, m.p. 92-92.5°C. It is practically insolunate, slightly soluble in alcohols, and hydrocarboms, dissolves well in ketones.

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UDC 621.311.21.001.5

KOZLOVA, V. F.

"Stability of Parallel Operation in Enclosed Hydraulic Units"

Tr. Vses. proektno-izyskat. i NII Gidroproyekt (Works of the Gidroproyekt All-Union Planning, Surveying and Scientific Research Institute), 1970, collection 19, pp 141-148 (from RZh-Elektrotekhnika i Energetika, No 4, Apr 71, Abstract No 4 D120)

Translation: A study was made of the dynamic stability of horizontal enclosed hydraulic units. Results are presented from natural studies of the stability of the units at the Kiev Hydroelectric Power Plant with two-phase short circuits to ground on the hydroelectric power plant buses. It is necessary to more precisely define the procedure for calculating the stability as applied to low-inertia generators.

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1/2 016 UNCLASSIFIED PROCESSING DATE-- 300CTTC
TITLE-SOME DATA ON THE INFLUENCE OF THE SKELETAL HUSGLES UPON FUNCTIONAL
PROPERTIES OF THE RESPIRATORY CENTER -U-

AUTHOR-KOZLOVA, V.I.

CCUNTRY OF INFO--USSR

SOURCE—FIZIOLOGICHESKIY ZHURNAL SSSR IMENI 1. M. SECHENOVA, 1970, VOL 56, NR5, PP 759-763
DATE PUBLISHED————70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES
TOPIC TAGS-MUSCULOSKELETAL SYSTEM. RESPIRATORY PHYSIOLOGY

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1605

STEP NO--UR/0239/70/056/005/0759/0763

CIRC ACCESSION NO--APOL27096

UNCLASSIFIED

2/2 016 UNCLASSIFIED PROCESSING DATE--300CT7C
CIRC ACCESSION ND--AP0127096
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IN CHRONIC EXPERIMENTS ON DOGS
INFLUENCE OF THE STATIC TENSION OF THE SKELETAL MUSCLES OF THE CHARACTER
OF EXTERNAL RESPIRATION AND SOME FUNCTIGNAL PROPERTIES OF THE
RESPIRATORY CENTER WERE INVESTIGATED. RESPIRATORY REACTION PHASES
CONNECTED WITH THE PERIOD OF STATIC TENSION WERE DETERMINED. INCREASE
IN THE STATIC TENSION OF THE MUSCLES LEAD TO THE INCREASE IN FREQUENCY
AND DEPTH OF BREATHING, AND OF THE LUNG VENTILATION VOLUME.
FACILITY: MEDICAL INSTITUTE, ORENBURG.

UDC 577.150.6

KOZLOVA, V. KH., and FOHINA, N. A.

"Cholesterol-Decomposing Activity of Some Bacterial Species"

Moscow, Mikrobiologiya, No 2, 1971, pp 275-279

Abstract: Study of 38 bacterial cultures isolated from various sources showed that most forms of Pseudomonas are capable of decomposing cholesterol in varying degrees. In 13 of the 18 Pseudomonas cultures examined, activity ranged from 10 to 27%. Fs. pyocyanea and Ps. fluorescens strain 22 were most active, 33 to 40%. A comparison of some Pseudomonas strains with Lycobacterium rubrum revealed that Kirabrum strains are almost twice as active as the former when grown on a medium without cholesterol. When cholesterol was added to the medium, M. rubrum became 30% more active, whule some Pseudomonas cultures became less active. The addition of high cholesterol concentrations (50 to 100 / g/ml) to the medium depressed cholesterol oxidase activity in Ps. pyocyanea.

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Acc. Nr:

AP0034763

Ref. Code: UR 0241

PRIMARY SOURCE:

Meditsinskaya Radiologiya, 1970, Vol 15,

Nr 1, pp 39-43

THE USE OF RADIOIODINE-LABELLED THRIOMBRINE FOR DETERMINATION OF THE GLOMERULAR FILTRATION

Sysovev, V. F.; Kozlova, V. N.

Summary

The paper describes the technique of determining the glomentlar filtration based on a single injection and evaluating the mean concentration of radioindine-labeled thriombrine during the period of clearance on the basis of a single blood test and continuous recording of changes in the concentration of radioiodine-labelled thriombrine on the precardial curve.

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REEL/FRAME

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02

Magnesium

૧૯૦૦ છે. પ્રાપ્ત કે જ્યારામાં આવેલા મુખ્ય મામ મામાં આવામાં મામાં સામાં સામાં મામાં મામાં મામાં મામાં મામાં મામ

USSR

UDC 669.71.053.4.067

VOLKOVA, N. S., MAZEL', V. A., KOZLOVA, V. P., PROKHOROV, S. T.

"Effect of the Specific Surface of Magnesium Oxide on the Kinetics of Desiliconization of Aluminate Solutions"

Tr. Vses. n.-i. i provektn. in-ta alyumin., magn. i elektrodn. prom-sti (Works of the All-Union Scientific Research and Planning and Design Institute of Aluminum, Magnesium and Electrode Industry), 1970, No 70, pp 161-171 (from RZh-Metallurgiva, No 4, Apr 71, Abstract No 4G148)

Translation: The specific surface of MgO is lowered with an increase in temperature from 500 to 1,100° and with an annualing time from 1 to 4 hours. MgO obtained at 500° for 2 hours has the highest specific surface and quenching rate. The index of light refraction increases from 1.682 to 1.728 with an increase in the annualing temperature from 500 to 1,100° and during a time period from 1 to 6 hours. The nature of the rims on the electron diffraction patterns and electron microscope pictures of the obtained MgO samples indicate consolidation of the fine particles as the annualing temperature of the basic Mg carbonate increases. The desilionnizing capacity of MgO depends on its specific surface. MgO has a higher desilionizing capacity than CaO. As the CaO content in the additive is increased (with

VOLKOVA, N. S., et al., <u>Tr. Vses. n.-1. i proyektn. in-ta alyumin.</u>, magn. i elektrodn. prom-sti, 1970, No 70, pp 161-171

a total amount of mixture of 5 g/liter), the degree of desiliconization drops. In the presence of carbonate alkali (10 gram/liter), the desiliconizing capacity of MgO drops. There are 8 illustrations, 2 tables and a 7-entry bibliography.

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Nickel

USSR

UDC 669.245.018.44:669.786

LEVI, L. I., BORISOVA, O. M., KOZLOVA, V. S., and PUSHIN, B. A.

"Nitrogen in Complexly Alloyed Nickel Casting Alloys"

Liteyn. proiz-vo (Foundry Production), 1970, No 7, pp 24-26 (from RZh-Metal-lurgiya, No 12, Dec 70, Abstract No 12 I1823 by M. PROMOVA)

Translation: The use of ordinary methods of nitrogen determination (distillation of N in the form of ammonia and vacuum melting) cannot be recommended for complexly alloyed Ni alloys due to the obtaining of sharply understated results. The authors suggest a new, differential method of nicrogran determination (a chemical method, with fusion of precipitate and subsequent analysis), which makes possible nitrogen determination in solid solution and nitride phases. With the help of the new method an investigation was made of heat-resistant ZhS-6K brand Ni alloy. N concentrates mainly, not in solid solution, but in nitride phases (CrN, TiN, etc.). Total nitrogen content depends on the conditions of alloy smelting. It is assumed that carbonic and nitrocarbide phases of the Me_KCyN_K type are present in the alloy. Evo tables. Bibliography of seven titles.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

PROCESSING DATF--115EP70 UNCL'ASSIFIED 1/2 10

TITLE--ROLE OF THE HEREDITORY FACTOR IN THE DEVELOPMENT OF ULCER DISEASE

AUTHOR--GELLER, L.I., KOZLOVA, Z.P.

COUNTRY OF INFO--USSR

SOURCE--VRACHEBNOYE DELO, 1970, NR 3, 41-43

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--DIGESTIVE DISEASE. GUODENUM. LESION. HEREDITARY DISEASE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0950

STEP NO--UR/0475/#0/000/003/0041/3043

CIRC ACCESSION NO--APO102889

UNCLASSIFIED

PROCESSING DATE--11SEP70 UNCLASSIFTED 020 2/2 CIRC ACCESSION NO--APOl02889 ABSTRACT. PATIENTS WITH DUDDENAL ULCER ABSTRACT/EXTRACT--(U) GP-0-HEREDITARILY BURDENED SHOWED MORE FREQUENTLY AS COMPARED WITH NON HERIDITARILY BURDENED PATIENTS. TRYING TO EXPLAIN THE POSSIBLE MECHANISM OF THIS PHENOMENON THE AUTHORS REVEALED THAT GENETICALLY BURDENED PATIENTS SHOW DURING THE REMISSION PERIOD LEVELS DE ACIDEORMING ACTIVITY OF GASTRIC MUCOSA WHICH DO NOT DIFFER FROM THOSE OBSERVED DURING EXACERBATION. GENETICALLY NON BURDENED PATIENTS SHOW A TENDENCY TO SOME REDUCTION OF THE PRODUCTION OF HYDROCHLORIC ACID DURING THE REMISSION PERIOD AS COMPARED WITH THE EXACERBATION PERIOD.

UNCLASSIFIED PROCESSING DATE--04DECTO

I/2 026 UNCLASSIFIED PROCESSING DATE--04DECTO

TITLE--DISORDERS OF THE SEROTONIN METABOLISM IN CIRRHOSIS OF THE LIVER -L

AUTHOR-(03)-GELLER, L.I., KOZLOVA, Z.P., KONTSEVAYA, N.G.

COUNTRY OF INFO--USSR

SOURCE--SOV MED 33(3): 19-21. 1970.

DATE PUBLISHED---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--LIVER, CIRRHOSIS, SEROTONIN. METABOLISM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605004/E04 STEP NO--UR/0399/T0/033/003/0019/0021

CIRC ACCESSION NO--AP0139661

UNCLASSIFIED PROCESSING DATE -- 0408073 2/2 026 CIRC ACCESSION NO--APO139661 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. INVESTIGATIONS HADE IN 34 HATIENTS WITH LIVER CIRRHOSIS WHICH DEVELOPED AFTER EPIDEMIC HEPATITIS CACUIT VIRAL MEPATITIS) SHOWED A CONSIDERABLE FALL OF SEMOTONIA BINDING PROPERTIES OF THE BLOOD SERUM BY COMPARISON WITH MEALTHY PERSONS. LIVER CIRRHOSIS WITH ESOPHAGEALGASTRIC HEMORRHAGES STEMMING FROM PORTAL HYPERTENSION PREVAILING IN THE CLINICAL PICTURE, THE DEGREE OF AN INCREASED BLOOD SERUM MUNDAMINOXIDANSE ACTIVITY AND URENARY EXCRETION OF THE BASIC METABOLITESEROTONIN (5,0XYINDOYL ACETIC ACID) IS SUBSTANTIALLY GREATER THAN IN PATIENTS SUFFERING FROM LIVER CIRRHOSIS WITH MARKED HEPATIC INSUFFICIENCY WITHOUT NOTICEABLE PORTAL HYPERTENSION. IT 45 TO BE PRESUMED THAT DISTURBED SEROTONIN METABOLISM PLAYS A DEFINITE POLE IN THE DEVELOPMENT AND PROGRESSING HEMORRHAGES OF PORTAL GENESIS IN PATIENTS WITH LIVER CIRRHOSIS. ATTEMPTS AT CLINECAL APPROBATION OF ANTISEROTONIN PREPARATIONS IN LIVER CIRRHOSES WITH PORTAL HYPERTENSION FACILITY: NARUSHENIYA SHOULD BE CONSIDERED FULLY JUSTIFIABLE. OBMENA SEROTONINA SEROTONINA PRI TSIRROZE PECHENIA

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201530005-3"

UDC 577.4

DOBROLYUBOV, A. I., KOZLOVSKAYA A. B.

"Problems of Simulation and Analysis When Checking Complex Contact Relay Structures"

V sb. Tekhn. diagnostika (Technical Diagnostics — collection of works), Moscow, Nauka Press, 1972, pp 184-168 (from RZh-Kibernetika, Ko 7, Jul 72, Abstract No 77408)

No abstract

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UDC: 621.397.335.29

MOISEYEV, V. K., FOMIN, P. P., ZHOVTIS, I. M., KOZEOVSKAYA, A. V.

"A Device for Automatically Locking on and Tracking Video Pulses"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obmaztsy, tovarnyye znaki, No 18, Jun 71, Author's Certificate No 305598, Division E, filed 11 Aug 69, published 4 Jun 71, p 197

Translation: This Author's Certificate introduces a device for automatically locking onto and tracking video pulses for automatically putting a pulse tracking system in the tracking mode of operation. The device contains a time modulator, a selector gate generator, a time discriminator with accumulation and two data transcribing oscillators, a trigger pri divider, a pulse generator for recording information on the time modulator, and a lock-on flip-flop. As a distinguishing feature of the putent, the system for locking onto the video pulses is simplified by connecting a delay device and two coincidence circuits in the trigger circuit for the selector gate generator. The pulse input of one of the coincidence circuits is connected directly to the output of the time modulator, and the pulse input of the second coincidence circuit is connected through a delay element to the

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