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YURKYANETS, YE. A., and MATYUSHKIN, D. P., Byulleten' Eksperimental'noy Biologii i Meditsiny, Vol 75, No 3, 1973, pp 16-19

tones the greater was the activation of one and inhibition of the other external ear muscle. The response is compared to the cocking of ears by animals. Though it has no acoustic value, it is a reliable sign of attentive listening and may possibly be utilized as an index of the functional state of the auditory apparatus.

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CIA-RDP86-00513R002202010009-5" **APPROVED FOR RELEASE: 09/01/2001**

LUAPIOTORA

UDC 612.815.816

USSR

MATYUSHKIN, D. P., and SHABUNOVA, I. A.

"Effect of Imidazole on the Nerve Impulse Transmitter and Neuromuscular Transmission of Excitation (as Related to the Hypothesis of the Existence of Chemical Feedback at the Symapse)"

Leningrad, Vestnik Leningradskogo Universiteta, Vol 2, No 9, May 72, pp 97-100

Abstract: Experiments with frog sciatic nerves treated in 9 rmole imidazole per liter for 45-60 min showed that imidazole decreased the merve response potential (NRP) to 55.5%. Duration of the ascending phase of HRP increased by 44% due to imidazole. At the same time the neuronuscular transmission and the potentiation time decreased to 82.6 and 52.5%, respectively. The obtained results indicate that imidazole inhibits the function of sodium membrane channels and inactivates part of them. The effect of imidamole is positive with respect to the neurosecretory process and negative with respect to electrogenesis. If we assume that some imidazole-containing substance acts as a mediator of feedback at the synapse, then the dual effect of imidatole can be interpreted as being regulatory in the presymapse processes. It is also possible that we are dealing here with mechanisms of mositive and negative feedback at the synapse, one of which constantly maintains the synapse function, and the other tries to limit it. The obtained results are inconclusive and further experiments are needed. 1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

UDC 534.222.2

KINELOVSKIY, S. A., MATYUSHKIN, N. I. TRISHIN, YU. A.

"Convergence of an Incompressible Ring Toward the Center Under the Action of Explosion Products"

V sb. Dinamika sploshn. sredy. Vyp. 5 (Dynamics of a Continuous Medium. No. 5 --Collection of Works), Novosibirsk, 1970, pp23-32 (from REh-Mekhanika, No 9, Sep 71, Abstract No 98168)

Translation: The problem of the motion of a ring of incompressible fluid under the action of explosion products is discussed. The calculation is carried out for an ideal gas with an adiabatic index $\gamma = 3$. The relationship between pressure and density $p = Ap^3$ (where A is a constant) are added to the equations describing the one-dimensional motion of a gas with cylindrical symmetry. P = c + v and H = c - v, where v is velocity and c is the speed of sound, are taken as the initial functions. The equations obtained are written in dimensionless form and are solved by the modified method of characteristics. The computational results are compared with experimental data. N. N. Kochina

- 62 -

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USSR

UDC 621.791.011:620,192.1:669.295

MATYUSHKIN, V. A., Candidate of Technical Sciences, GORSHKOV, A. I., Candidate of Technical Sciences, SHORSHOROV, M. KH., Doctor of Technical Sciences

"Conditions and Methods of Preventing of Crack Formation From Pores in Titanium Alloys Occurring After Welding"

Moscow, Svarochnoye proizvodstvo, No 11, 1972, pp 48-51

Abstract: A study was made of the conditions of crack formation from pores during prolonged static loading and the possibility of preventing them technologically. In the case under consideration, the cracks are arranged as a rule across the weld perpendicular to the effect of the tensile stresses. Most frequently the cracks are formed in the annular welds where the tensile stresses reach 52-57 kilogram-force/mm². The studies were performed on the titanium alloys VTI-1, OT4, OT4-2, VT20, and VT14 in sheets 3 mm thick. Theoretical and experimental evidence is presented that the formation of cracks from peres depends on the level of the residual stresses in the welded joint, the plasticity index, and the structure of the method. With an increase in the stresses, a decrease in plasticity, and increase in grain size of the metal, the probability of crack formation from the pores lacreases. A high concentration of stresses in the vicinity of the pore and an increase in the gas content (hydrogen, oxygen, and nitrogen) in the weld metal accelerates the process of crack development

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MATYUSHKIN, V. A., et al., Svarochnoye proizvodstvo, No 11, 1972, pp 48-51

from the pores with a comparatively low level of general stressed state of the welded structure. Annealing for stress relief with a comparatively small content of gas impurities is one of the basic conditions of preventing crack formation from pores in the weld metal.

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USSR

UDC 632.95

BLIZNYUK, N. K., KHOKHLOV, P. S., KVASHA, Z. N., MARKOVA, L. I., LEVSKAYA, G. S., PROTASOVA, L. D., SOLNTSEVA, L. M., MATYUKHINA, Fe. N., VARSHAVSKIY, S. A., BARANOV, Yu. I., LIBMAN, B. Ya., ZHEMCHUZHIN, S. G.

"Method of Production of Dichlorides or Dibromides of Thiophosphonic Acids or Their Bis Analog"

USSR Author's Certificate No 332095, filed 19/08/69, published 17/04/72 (Translated from Referativnyy Zhurnal Khimiya, No 24(II), 1972, Abstract No 24N591, by T. A. Belyayeva)

Translation: Compounds of the formula $RP(X)X_2$ (I) (R=alky1, ary1, aralky1; X=C1 or Br) and $X_2P(S)A(S)PX_2$ (II) (A-bivalent hydrocarbon radical) were produced by the reaction of mono- or dihalo hydrocarbons with S, P and PX_3 with heating to 250-400° in an autoclave of stainless steel or nickel in the presence of catalytic quantities of I_2 or its compounds. Example. A mixture of 0.24 mole PhC1, 0.24 g-atom S, 0.16 g-atom white P, 35 ml PC13 and 0.05 g I_2 is heated at 290-330° for seven hours in an autoclave of stainless steel, the PC13 is distilled, then vacuum distillation is used to separate I (R=Ph, X=C1), yield 60%, B. T. 109-112°/3, $n^{20}D$ 1.6241. Similarly, I were produced (given R, X, yield in Z, B. P. in °C/mm, $n^{20}D$): 4-Clc6 H_4 .

USSR

BLIZNYUK, N. K., et al., USSR Author's Certificate No 33209.5, filed 10/08/69, published 17/04/72

C1, 53.5; 124-3/1.5-2, 1.6229; $p-MeC_6H_4$, C1, 54.5, 125-7/1, 1.6120; $4FC_6H_4$, C1, 72.2, 95-7/0.5, 1.6028; Ph, Ph

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

UDC: 519.1

ABRAMOV, B. M., MATYUSHKOV, L. P.

"An Algorithm for Identification of Trees"

Vychisl. tekhn. v mashinostr. Nauch.-tekhn. sb. (Gomputer Technology in Machine Building. Scientific and Technical Collection), 1972, Sep., pp 9-17 (from RZh-Kibernetika, No 5, May 73, abstract No 5V514 by V. Zemlyachenko):

Translation: In a root tree we shall use μ_j to denote a chain connecting the root with vertex x_j , and $\{\mu_j\}$ to denote the length of this chain. The root tree may be normalized, i. e. its suspended vertices different from the root may be numbered starting from "1" so that $\mu_i(\mu_i) = \frac{1}{2} \frac$

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

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ABRAMOV, B. M., MATYUSHKOV, L. P., Vychisl. tekhn. v mashinostr. Nauch.-tekhn. sb., 1972, Sep., pp 9-17

In the paper abstracted here, the authors consider an algorithm for establishing isomorphism of root trees given by sequences of splicings. The algorithm requires $O(\nu^2)$ elementary operations (rearrangements and comparisons of pairs of numbers).

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UDC: 8.74

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MATYUSHKOV L. P. SOSKIN, L. B.

"Determination of Characteristics of Technological Decisions"

Vychisl. Tekhn. v Mashinostr. Nauch.-tekhn. Sb. [Computer Equipment and Machine Building, Scientific and Technical Collection], 1971, pp 113-116 (Translated from Referativnyy Zhurnal Kibernetika, No 11, 1972, Abstract No 11V591, by the authors)

Translation: A method is studied for automatic determination of the characteristics of technological decisions (objects) during automation of technological planning.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

UDC 619:616.988.6-097:636.5

KOROVIN, R. N., KREYMER, Yu. Ye., MATYUSHKOV, V. S., LUKINA, V. A., NIKITIN, Ye. Ye., and KUDRYAVTSEV, F. S., All-Union Research Institute of Fowl Diseases

"The Effectiveness of Crude Viral Vaccine Against Marek's Disease"

Moscow, Veterinariya, No 8, 1973, pp 38-39

Abstract: A turkey herpesvirus antigenically related to the virus responsible for Marek's lymphoma was grown in chick embryo fibroblasts and utilized as a vaccine. The efficacy of the vaccine was tested on 1 day old chicks immunized intramuscularly with 500 PFU in 0.2 ml during an epizootic oubbreak in Latvia. Mortality due to Marek's disease was 3.2-4.5 times less among the immunized chicks than among the unimmunized controls. Although 100% protection was not afforded the immunized chicks, the economic gains from an effective vaccine are obvious and indicate the importance of prophylactic immunization.

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MATHEMATICS

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UDC 519.1

MATYUSHKOV, V. V.

"Recurrent Relation Connected with Graph Contraction"

Novosibirsk, Sibirskiy Matematicheskiy Zhurnal, Vol 11, No 4, July-August 70, pp 822-842

Abstract: This article considers a class G of finite, unoriented graphs L = (X,U) without loops and parallel edges, where X is the set of verticles of the graph L \in G and U is the set of edges. The set U is broken down into U and U, flexible and rigid edges, such that $U = U \cup U$ and $U \cap U = U$. The authors discusses the numbers $h_1^{-1}(L)$, introduced in an earlier paper (Odnovremennoye vychisleniye kolichesty nepolnykh raskrasok vershin i chastichnykh styagivaniy grafa (Simultaneous Calculation of Quantities of Incomplete Vertex Colorings and Partial Graph Contractions) by A. A. Zykov, in Kibernetika, No 5, 1968, pp 58-62), which he terms important in the theory of graphs and combinatorial analysis.

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PINOCESSING DATE--04DEC70

009 TITLE--SYNTHESIS OF OLIGOURETHANES WITH DISUBSTITUTED NITROGEN ATOMS IN 1/2

THE MAIN CHAIN -U-

AUTHOR-(03)-MATYUSHOV, V.F., GIRTSENKO, T.M., SINYAVSKIY, V.G.

COUNTRY OF INFO--USSR

SOURCE-UKR. KHIM. ZH. 1970, 36(3), 275-7

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ETHYL CARBAMATE, OLIGOMER, ORGANIC SYNTHESIS, ORGANIC NITROGEN COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0904

STEP NO-+UR/0073/70/016/003/0275/0277

CIRC ACCESSION NO--APO137932

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

UNCLASSIFIED

PROCESSING DATE--04DEC70

CIRC ACCESSION NO--APO137932

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE CONDENSATION OF GLCH SUB2 RGCH SUB2 CL (R EQUALS CH SUB2 OR (CH SUB2 CH SUB2 SUB2 O) WITH H SUB2 CL (R EQUALS CH SUB2 CH SUB2 OR (CH SUB2 CH SUB2 SUB2 O) WITH H SUB2 NCO SUB2 R PRIME (R PRIME IS ME OR ET) AT 2DDEGREES GRADUALLY SUB2 NCO SUB2 R PRIME (R PRIME IS ME OR ET) AT 2DDEGREES GRADUALLY INCREASING TO 150DEGREES GAVE 96-9PERCENT LOW MOL. WT. (CH SUB2 NCO SUB2 NICO SUB2 R PRIME) SUBN. SIMILARLY THE REACTION OF GLCH SUB2 NCO WITH R PRIME2 OLL (R PRIME2 IS ME OR BU) GAVE SMALLER THAN OR EQUAL TO 99PERCENT LOW MOL. WT. (CH SUB2 NICO SUB2 R PRIME2)) SUBN.
FACILITY: INST. KHIM. VYSOKOMOL. SOEDIN., KIEV, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

1/2 026 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--COPOLYMERIZATION OF OLIGOESTER MALEATE URETHANES -U-

AUTHOR-1021-OMELCHENKO, S.I., MATYUSHOVA, V.G.

M

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. B 1970, 12(5), 377-80

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--COPOLYMERIZATION, ORGANIC ISOCYANATE, ETHYL CARBAMATE, STYRENE, IR SPECTROSCOPY, POLYURETHANE RESIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0956

STEP NO--UR/0460/70/012/005/0377/0380

CIRC ACCESSION NO--APO136386

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PROCESSING DATE--27NOVIO UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE REACTION OF UCNRNCO (R IS ICH 026 CIRC ACCESSION NO--APO136386 SUB21 SUB6, (P.C SUB6 H SUB41 SUB2 CH SUB2, OR 2,4, TOLYLENE) WITH HEOLCH SUB2 CH SUB2 0) SUBN COCH: CHCO) SUBN (OCH SUB2 CH SUB2) SUBN OH KN EQUALS 1, 2, OR 3) IN STYRENE SOLN. IN THE PRESENCE OF PEROXIDES GIVES OLIGOPOLYURETHANES, OCHRNHCO(O(CH SUB2 CH SUB2 D) SUBN COCH:CHCO)(OCH SUB2 CH SUB2) SUBN O SUB2 CNHRNGO (1), WHICH THEN ARE GOPOLYMO. WITH IR SPECTROSCOPY SHOWED THAT I REACTS WITH STYRENE TO GIVE SOME GROUPS RESULTING FROM STYRENE ADDN. TO N. THIS RESULT WAS CONFIRMED BY DTA OF A 1-STYRENE MIXT. AND 2,4, TOLYLENE DIISOCYANATE, STYRENE INST. KHIM. COPOLYMERS, WHICH HAVE II UNITS. VYSOKOMOL. SOEDIN., KIEV, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

1/2 017 UNCLASSIFIED PROCESSING DATE--20N0V70
TITLE--INFLUENCE OF STRUCTURE OF INITIAL COMPGNENTS OF RADIATION CURING OF
UNSATURATED GLIGOESTERS AND OLIGOESTERURETHANES -UAUTHOR-(05)-CMELCHENKO, S.I., VIDENINA, N.G., MATYUSHOVA, V.G.,
CHERVETSOVA, I.N., PYANKOV, G.N.

SOURCE--IND. ENG. CHEM., PROD. RES. DEVELOP. 1970, 4(2), 143-6

DATE PUBLISHED ---- 70

CCUNTRY LF INFO--USSR

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--RADIATION POLYMERIZATION, OLIGOMER, MALEIC ANHYDRIDE, ETHYLENE, ETHYLENE GLYCOL, PHTHALIC ANHYDRIDE, ADMPIC AGID, SEBACIC ACID, ETHYL CARBAMATE, THERMAL STABILITY, CHEMICAL RESISTANCE, POLYMER STRUCTURE

CENTREL MARKING-NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1144

STEP NO--US/COCC/TO/C09/C02/OL43/0146

CIRC ACCESSION NON-APO128566

PROCESSING DATE--20NUV70 UNCLASSIFIED 017 CIRC ACCESSION NO--APO128566 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE TREADN. COPULYMN. OF UNSATO. OLIGOESTERS AND OLIGUESTER URETHANES WAS INVESTIGATED. THE UNISATO. OLIGOESTERS WERE SYNTHESIZED FROM MALEIC ANHYORIDE, C SUBZ H SUB4, AND DIETHYLENE GLYCOL, PHTHALIC ANHYDRIDE, AND ENDOMETHYLENTETRAHYDRUPHTHALIG ANHYDRIDE, ADIPIC AND SEBACIC ACIDS BEING USED AS MODIFIERS. UNSATO. CLIGOESTER URETHANES OF VARIOUS FREE ISUCYANATE GROUP CUNTENTS WERE PRODUCED BY INTERACTION OF OLIGIETHYLENE, CLIGOCIETHYLENE, AND CLIGHTRIETHYLENE MALEATES WITH TOLYLENG. DIPHENYLMETHANE, AND HEXAMETHYLENE DIISOCYANATES. THE RELATIVE CURING RATE CEPENDS ON THE STRUCTURE OF THE DELIGNMERS. ESP. THE MONOMERS. IN THE CASE OF UNSATO. CLIGGESTER URETHANES: ISUCYANATE GROUPS PARTICIPATE IN THE CURING REACTION. IN IRRADN. CEPQLYEN., BOTH THE YIELD OF INSOL. FRACTION AND CONVERSION OF DOUBLE BONDS ARE HIGHER THAN IN THE PRESENCE OF PEROXIDES. PHYS. AND MECH. PROPERTIES, THERMAIL STABILITY, AND H SUB2 O AND CHEM. RESISTANCE ARE, AS A RULE, HIGHER FOR POLYMERS OBTAINED FACILITY: INST. HIGH MUL. CHEM., DURING HIGH ENERGY IRRADN. KIEV, USSR.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

UDC 621.378:533.9

BURAKOV, V. S., MAUMERKOV, P. A., IVANOV, V. P., and KOLOSOVSKIY, G. A.

"Study of the Passage of High-Power Laser Radiation Through an Optically Dense Plasma"

Minsk, Zhurnal Prikladnoy Spektroskopii, Vol 16, No 2, Feb 72, pp 239-242

Abstract: The article describes results of an experimental study of the passage of ruby-laser radiation (density $10^6-5\cdot10^6$ M/sq cm, duration $3\cdot10^{-8}$ sec) through a quasistationary plasma with a temperature of 3-4 ev and a conparatively high absorption coefficient (4-7 cm⁻¹). Nonlinear phenomena were found during the passage of the laser radiation through the plasma: viz., bleaching and an increase in the absorptivity of the plasma. The mechanism of the observed plasma bleaching is discussed.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

Ref. Code: Abstracting Service: INTERNAT. AEROSPACE ABST 5-70 UR 0141 Observations of Jupiter, Venus unit 3C 273 at the wavelengths of 2 and 8 mm (Nablisdeniis tupitais, Vensry i istochnika 3C 273 ne volnekh 2 i 8 mm). V. A. Etimov. A. G. Kisliakov, I. G. Moissev, and A. I. Misumov (Gor'koriskii Gosudarstvennyi Universitet, Gorkl, USSF). Hadiolizika, vol. 13, pp. [2] VUZ 2, 1970, p. 219-224. 15 refs. In Russian. Results of observations carried out in May 1968, using a 22-in radio telescope. The brightness temperature of Venus, found by comparison with that of Jupiter, appeared to be equal to 290 plus or minus 25 K at 2.16 mm and 495 plus or minus 20 K at 8 mm. The densities of the radiation fluxes of the source 3C 273 at the time wavelengths are equal to (114 plus or minus 14) \times 10 to the minus 26th W/sq m-H2 and (62 plus or minus 4) x 10 to the minus 20th W/sq m-H2. The data are presented without taking into account the errors in determining the brightness temperatures of Jupiter, the latter accepted to be equal to 150 plus or minus 20 % at 2.18 mm

(Author)

REEL/FRAME 19800063

and 144 plus or minus 20 K at 8 mm.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

UDC 66.063.5

KOSTIKOV, V. I., MAURAKH, M. AT, and NOZHKINA, A. V., Moscow Enstitute of Steel and Alloys

"Wetting of Diamonds and Graphite by Liquid Alloys of Inon With Titanium"

Kiev, Poroshkovaya Metallurgiya, No 1 (97), Jan 71, pp 79-82

Abstract: A study was made of the wetting of single diamond crystals and plates cut from them along the (100) facet and pyrolytic graphite. The test procedures are described and the results of the experiments are presented. The tendency of liquid from and its alloys with titanium toward wetting diamonds is higher for the (100) facet and lower for the (111) natural facet. Pyrographite occupies an intermediate position. Introduction of more than 30% titanium into the from improves wettability of diamonds and graphite by it. The magnitude of the contact angle of pure from in pyrographite is 50°, and that of from alloy with 3.9% C is about 110°. The emergy of adhesion of from to diamonds along the (100) facet is 3.160 ergs/cm², and on the (111) facet, 2,590 ergs/cm². The energy of adhesion to pyrographite is 2,960 ergs/cm². It was found that titanium increases the energy of admission of iron to graphite and diamonds.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

KOSTIKOV, V. I., et al, Poroshkovaya Metallurgiya, No 1 (97), Jan 71, pp 79-82

Graphs are presented showing the wetting contact angle of diamonds and graphite by FeTi alloys as a function of titanium content, the variation of the wetting contact angle of diamonds and pyrographite by iron as a function of contact time for both the (100) and (111) facets, and the spreading of Fe-Ti alloys over diamonds and pyrographite as a function of Ti content.

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1/2 045 UNCLASSIFIED PROCESSING DATE--30GCT70
TITLE--INFRARED ABSORPTION OF METABORATE, ION IN A POTASSIUM BROWIDE

CRYSTAL AT LOW TEMPERATURES -U-

AUTHOR -- MAURING. T.

COUNTRY OF INFO--USSR

SOURCE-EESTI NSV TEAD. AKAD. TOIM., FUUS., MAT. 1970, 19(1), 104-7

DATE PUBLISHED---- 70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--IR ABSORPTION, ABSORPTION BAND SPECTRUM, CRYDGENIC PROPERTY, VIBRATION SPECTRUM, NEGATIVE ION, BORATE, POTASSIUM BROMIDE, IONIC CRYSTAL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1475

STEP NO--UR/0458/70/019/001/0104/0107

CIRC ACCESSION NO--APOL18464

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2/2 **UNCLASSIFIED** PROCESSING DATE--300CT70 CIRC ACCESSION NO--APOL18464 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. VIBRATIONS OF THE BO SUB2 PRIME NEGATIVE ION WERE STUDIED AT LIG. N AND LIG. H TEMPS. TEMP. DECREASE LEADS TO A RAPID DROP IN THE ABSORPTION COEFF. OF THE COMBINATION FREQUENCIES UPSILON SUB3 PRIME EQUALS (0,1,1) MINUS (0,1,0) AND V SUB3 PRIME PRIME EQUALS (0,2,1) MINUS (0,2,0), WHICH CONFIRMS THEIR INTERPRETATION AS HOT TRANSITIONS. A LINEAR SHIFT OF ALL BANDS TO LOWER WAVELENGTHS (6 TIMES 10 PRIME NEGATIVES OM PRIME NEGATIVES PER DEGREE) AS WELL AS THEIR NARROWING WAS DOSD. THE GAMMA SUBB ABSORPTION BAND OF PRIME11 BO SUB2 PRIME NEGATIVE AND OF PRIME10 BO SUB2 PRIME NEGATIVE IS ACCOMPANIED BY A SATELLITE BAND, LOCATED AT 1.9 CM PRIME NEGATIVES TO LOWER WAVENOS. FROM THE PRINCIPAL BAND. THIS SATELLITE BAND IS ATTRIBUTED TO THE UPSILON SUB3 VIBRATION OF THE IGN DIFFERENTLY ORIENTED IN THE CRYSTAL FIELD; THE 2 ORIENTATIONS COINCIDE WITH THE C SUB3 AND C SUB4 AXES. FACILITY: INST. FIZ. ASTRON., TARTU, USSR.

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REBANE, K. K., SAARI, P. M., and MAURING, T. Kh.

"Hot Luminescence of Impurity Molecular Ions in Alkali.-Halide Crystals"

Moscow, Izvestiya Akademii Nauk SSSR--Seriya Fizicheskaya, No 4, 1973, pp 848-854

Abstract: This article is a short review of the results of experimental and theoretical work published on hot luminescence (HL) in rapidly relaxing impurity centers of a crystal. Some new experimental data is given, along with discussions of some general questions. Hot luminescence is here defined as the luminescence emitted before the establishment of thermal equilibrium in the course of oscillatory relaxation of the impurity center. The differences between hot luminescence in rapidly relaxing systems and HI in slowly relaxing systems are: the possibility of interference of HL with combination dispersion; its duration -- i.e., the afterglow following instantaneous excitation; its unique extinction processes. HL is interesting because: it offers a method of studying relaxation processes; it is a component or secondary glow, which must be considered in the interpretation of experiments on dispersion; it is an independent and new component of secondary glow. Bibliography of 25. 1/1

CIA-RDP86-00513R002202010009-5"

APPROVED FOR RELEASE: 09/01/2001

USSR

UDC 669.721.046.4

MAURITS, A. A., MEDEUOV, Ch. K., SHADSKIY, S. V.

"Thermochemical Investigation of Ammonium Carnallite"

Tr. Vses. N-i Proyektn. In-ta. Alyumin., Magn. i Elektrodn. Prom-sti [Works of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry], 1970, No. 72, pp. 77-83. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 G190 by the authors).

Translation: The integral heats of dissolution of anhydrous, dihydrate, and hexahydrate ammonium carnallite at 25° are experimentally determined. Based on the data produced, the thermal effects of the processes of dehydration and decomposition of ammonium carnallite are calculated: NH₄CL·MgCl₂·6H₂O=NH₄Cl·MgCl₂·2H₂O+H₂O+H₂O=NH₄Cl·MgCl₂·2H₂O+H₂O+H₂O+H₂O+H₃O+H

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-, 52. -

USSR

UDC 669.721.046.4

MAURITS, A., A., MEDEUOV, Ch. K., BERSENEV, P. D.

"Tensometric Study of Ammonium Carnallite"

Tr. Vses. N-i. Proyektn. In-ta. Alyumin., Magn. i Elektroden. Prom-sti [Works of All-Union Scientific Research and Planning Institute of the Aluminum, Magnesium and Electrode Industry], 1970, No. 72, pp. 84-89. (Translated from Referativnyy Zhurnal Metallurgiya, No. 5, 1971, Abstract No. 5 G191 by the authors).

Translation: Experimental results are presented from determinations of the vapor pressure over ammonium carnallite crystal hydrates and its anhydrous complex as a function of temperature. The thermal effects of the processes of dehydration and decomposition of carnallite are calculated on the basis of the data produced by a statistical method, using the isobar equations of the chemical reactions. The dependence of the equilibrium constant of dissociation of anhydrous carnallite on temperature is determined. 4 figs; 1 table, 9 biblic refs.

1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

PROCESSING DATE--04DECTO UNCLASSIFIED TITLE--ALIPHATIC ACIDS SYNTHESIZED BY ASPOROGENIC YEASTS HU-

AUTHOR-1021-MAVLANI, M.I., GULYAMOVA, N.

COUNTRY OF INFO--USSR

SOURCE--UZB. BIOL. ZH. 1970, 14(2), 17-19

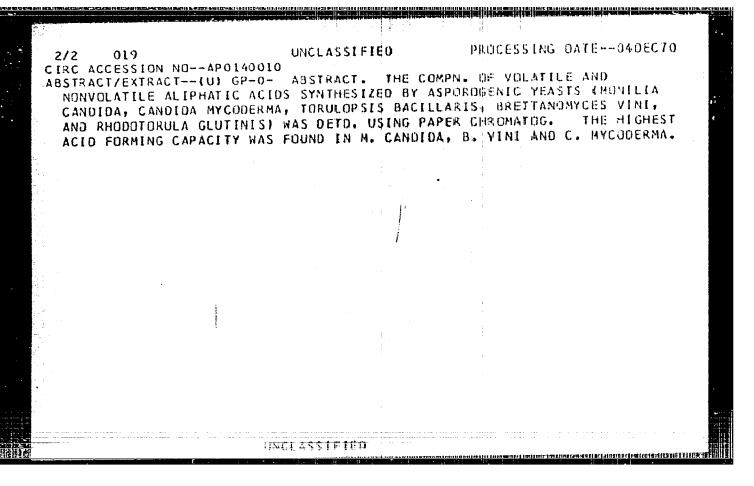
DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--YEAST, BIOSYNTHESIS, PAPER CHROMATOGRAPHY

CONTROL MARKING--NO RESTRICTIONS

PROXY FICHE NO----F070/605008/E11 STEP NO---UR/9079/70/014/002/0017/0019

CIRC ACCESSION NO--APOL40010 UNCLASSIFIED



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USSR

CDC 547.241 565.2.057

MAY, L. A., and PAVARE, B. G., Institute of Inorganic Chemistry, Academy of Sciences Latv. SSR

"Reaction Products of Catechol with Methylphosphonic Apid Dichloride"

Riga, Izvestiya Akademii Nauk Latviyskoy SSR, No 4, 1973, pp 485-490

Abstract: The reaction of pyrocatechol with methylphosphonic acid dichloride occurs via a primary or secondary phenol-dienone rearrangement / phenol cyclohexanedione /. Such rearrangements often accompany electorphilic and radical substitution reactions of phenols such as halogenation, nitration, alkylation, free radical exidation, but so far no such rearrangement has been noticed in reactions of phenols with organophosphorus compounds.

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USSR

UDG 541.571546.18

MAY . L. A., Institute of Inorganic Chemistry, Academy of Sciences, Latv SSR

TAN TENNANT | SATER AND THE SATE OF THE

"Effective Charges on Phosphorus in Some Compounda"

Riga, Izvestiya Akademii Nauk Latviyskoy SSR, No 4, 1973, pp 394-396

Abstract: A correlation function has been developed for the 2p-electron binding energy and effective charges on the phosphorus atom. The charges were calculated by means of a combination of the Haber-Born cycle and the Kapustinskiy equation for the lattice energy. The function has the form:

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USSR

UDC 543.422.251547.241

MAY, L. A., and LUKEVITS, O. K., Institute of Inorganic Chemistry, Academy of Sciences Latv. SSR

"PMR Spectra of 1-Aminoethylidene-1,1-diphosphonic Acid"

Riga, Izvestiya Akademii Nauk Latviyskoy SSR, No 4, 1973, pp 443-445

Abstract: NHR-H¹ spectra (60 Mcps) of the aqueous solution of 1-aminoethylidene-1,1-diphosphonic acid taken on the instrument INM-3H-60 at room temperature are reported and discussed. In addition to water, a 1:1 mixture of water and deuterium oxide was used as well as water plus deuterium oxide plus dimethyl sulfoxide.

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- 47 -

Acc. Nr: Abstracting Service: Ref. Code: UN 0366

89455] Structure and reactivity of hydrazine derivatives. XX. Kinetics of the acid hydrolysis of carboxylic acid hydrazides. Grekov A. P.; Mayatanili (1987). Malyutenko, S. J.; (Inst. Khim. 1970, 6(1), 94-7 (Russ). The reaction rates, equiliconsts., activation energies, and Arrhenius frequency factors were detd. for RCONHNH2 (R = Me, Pr, MeOCH4, PhOCids, Ph. p-MeOC6H4, p-MeC6H4, m-ClC6H4, p-Me₁NC₆H₄, m-O₂N-Ph, p-MeOC6H4, p-MeC6H4, m-ClC6H4, p-Me₁NC₆H₄, m-O₂N-C6H₆, or p-O₂NC₆H₄) hydrolysis at 70 or 80° in 1 to 5.11 H₃SO₆ solns. The structure of R has only a minor effect on the hydrolysis kinetics due to a nearly simultaneous protonization and (H₃O)⁺ addn. reaction.

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REEL/FRAME 19751739

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

PHOCESSING DATE--- 04DEC70 UNCLASSIFIED TITLE-OUTER SPHERE AND INNER SPHERE COMPLEXES OF COBALT II. NICKEL II.

AND COPPER II -U-

AUTHOR-(04)-MIRONDOV, V.YE., MAKASHEV, YU.A., MAYRINA, I.YA.;

KRYZHANOVSKIY, M.M. COUNTRY OF INFO--USSR

SOURCE-ZH. NEORG. KHIM. 1970, 15(5), 1301-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--COBLAT COMPLEX, NICKEL COMPLEX, COPPER COMPLEX, CHLROINE, BROWINE, NITRATE, SULFATE, STABILITY CONSTANT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0943

STEP NO--UR/0078/70/015/005/1301/1304

CIRC ACCESSION NO--APO137971

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--APO137971
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. STABILITY CONSTS. WERE DETD. FOR INNER AND OUTER SPHERE COMPLEXES OF COLLI), NILLIE, AND CULLI) HEXAAQUA INNER AND OUTER SPHERE COMPLEXES OF COLLI), NILLIE, AND CULLI) HEXAAQUA IONS WITH HALIDES, THIOCYANATE, SULFATE, AND NITRATE IONS. THE TENDENCY TO INNER AND OUTER SPHERE INTERACTION DECREASES IN GOING FROM CL PRIME NEGATIVE TO BR PRIME NEGATIVE. THIS IS ATTRIBUTED TO THE ELECTROSTATIC NATURE OF THE OUTER SPHERE BONDS. THE TENDENCY FOR NITRATE AND SULFATE IONS IN THE CU COMPLEXES TO ENTER THE INNER SPHERE IS SHALL AND APPROX. THE SAME. THE HIGHER STABILITY OF THE CU SULFATE COMPLEXES IS RELATED TO THE HIGH STABILITY OF INNER SPHERE SULFATE ASSUCNS. FACILITY: LENINGRAD. GOS. PEDAGOG. INST. IM. GERTSENA, LENINGRAD, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

Acc. Nr: AP0037231

W

Ref. Code: UR 0391

PRIMARY SOURCE: Gigiyena, Truda i Professional nyye

Zabolevaniya, 1970, Nr 2, pp 34 - 37

FUNCTIONAL RESPIRATORY DISORDERS IN PATIENTS WITH CHRONIC BRONCHITIS AND PNEUMOCONIOSIS CAUSED BY THE EFFECT OF THE CEREAL GRAIN DUST

Mavrina, Ye. A.
Summary

A total of 424 workers continually exposed to the effect of grain dust were examined at the elevators of the Saratov region, with 17.6% of the found to suffer from chronic bronchitis and 21.8%—from pneumosclerosis. Pneumotathometry established disturbed function of the external respiration in 69.3% of the examined, and not only in those with pulmonary pathology, but in practically healthy ones as well. A detailed spirographic investigation of the respiratory function involving determination of 10 characteristics made in 40 persons showed chronic dust-induced pronchitis in workers handling grain to lead to the development of marked respiratory insufficiency of the II and III degress after A. G. Dembo, while noncomplicated pneumoconiosis to be accompanied by respiratory incompetence of the I degree. Disturbed function of external

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REEL/FRAME 19730155 _2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

AP0037231

respiration is an early sign of the grain dust effect. Expiration force, maximum pulmonary ventilation and Tiffneaux index are the most sensitive tests reflecting the state of bronchial patency. In detecting functional and organic elements in deranged bronchial patency a definite significance is attached to inhalation tests with ephedrine. Spirography and pneumotachometry may be recommended for wide use in practical work.

D.A.

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USSR

unc 621.397.61

SOROKA, Ye. Z., KHLEBORODOV, V. A., MAVRITSYN, V. G.

"Color Subcarrier Synthesizer for the PAL Color Television System"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 7, Mar 71, Author's Certificate No 295208, filed 2 Apr 69, published 4 Feb 71, p 170

Translation: This Author's Certificate introduces a color subcarrier synthesizer for the PAL color television system. The synthesizer contains a controlled quartz-crystal color subcarrier oscillator with an automatic phase control system, a module for a +25 Hz frequency shift and a frequency phase converter. The converted line frequency signals are sent to the converter converter. The converted line frequency signals are sent to the converter inputs. As a distinguishing feature of the patent, the synthesizer is simplified by connecting one of the inputs of the frequency converter to a line frequency pulse source through a filter of the 227 harmonic of the line frequency, while the second input is connected to the same source through a frequency divider by four and the above-mentioned filter.

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- 97 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

TITLE--DESIGN CHARACTERISTICS OF PS72M MOTORS -U-

PROCESSING DATE--04DEC70

AUTHOR-(02)-MAVROMATI, G.S., NASEDKIN, L.P.

COUNTRY OF INFO--USSR

012

1/2

SOURCE--IZV. VUZ. SSSR ELEKTROMEKH. (USSR), NO. 2, P. 170-2 (FEB. 1970)
DATE PUBLISHED----FEB70

SUBJECT AREAS--ELECTRONICS AND ELECTRICAL ENGR.

BEFORE FOR THE BEFORE STATES BARREST TO BE SHOWN FOR THE STATE OF THE STATES OF THE ST

TOPIC TAGS--ELECTRIC MOTOR, DESIGN HANDBOOK, SPEED REGULATOR, ARMATURE/(U)PS72M ELECTRIC MOTOR

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0313

STEP NO--UR/0144/T0/000/002/0170/0172

CIRC ACCESSION NO--APO137418

UNCLASSIFIED

012 **UNCLASSIFIED** PROCESSING DATE--04DECTO CIRC ACCESSION NO--APO137418 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. SPEED STABILISATION IN PS72M MOTORS IS ACHIEVED BY VARYING THE EXCITATION. IN THIS CASE, THE DISTORTION OF THE RESULTANT FIELD IN THE AIR GAP, GOVERNED BY THE LATERAL REACTION OF THE ARMATURE, IS RELATIVELY HIGH WITH CONSEQUENT DEGRADATION OF THE SWITCHING CAPACITY OF THE MACHINE. FOR THIS REASON, IN THE DESIGN OF SUCH MOTORS IT IS NECESSARY TO BELECT A LINEAR LOAD, ON THE BASIS OF COMMUTATION REQUIREMENTS AND NOT, AS IS USUAL, ON THE BASIS OF THERMAL EXCHANGE REQUIREMENTS WHEN USING INCREASED HEAT RESISTANT INSULATION.

2/2

UNCLASSIFIED

Nitrogen Compounds

USSR

UDC 542.91:547.362

MAYROV. M. V., VOSKANYAN, E. S., SEVERINA, T. A., and KUCHEROV, V. F., Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Sciences USSR

"Synthesis of Diacetylenic Hydroxyamines"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskawa, No 5, 1971, pp 1088-1091

Abstract: Several new types of polyfunctionally substituted discetylenes were synthesized by the condensation of 4-hydroxy-3-alkyl(or dialkyl) amino-butynes-1 with different bromoncetylenes under Kadio-Khomkevich conditions. The highest yields of the desired products (70-90 percent) were obtained when (Ia) was condensed in methanol solution in the presence of catalytic amounts of Cu₂Cl₂, and in an aqueous solution of ethylamine with a 1.5-2 fold excess of the corresponding bromoscetylenic compounds at temperatures not higher than -10°. Infrared spectra of these compounds contain absorption bands in the 2200-2260 cm⁻¹ region. They are of moderate intensity corresponding to the conjugated substituted diacetylenic group. Also found in the spectra are absorption bands corresponding to the bond vibrations of the functional groups.

USSR

MAVROV, M. V., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 5, 1971, pp 1088-1091

After exhaustive catalytic hydrogenation in alcoholic solution in the presence of a Pt-catalyst, diacetylenic hydroxylamines readily absorb 4 moles of \mathbb{R}_2 (forming previously unknown aliphatic hydroxylamines (III). No other synthetic pathways were known for these products.

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TITLE-LINEAR ORGANGSILICONE COMPOUND DEIGOMERS AND POLYHERS CONTAINING CARBON FUNCTIONAL TERMINAL GROUPS -U-AUTHOR-(03)-MAY. L., FISERS, G., TSERETELI, I.YU.

PROCESSING DATE--300CT70

CCUNTRY OF INFC-USSR

REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUBLISHED--26JAN70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--CLIGOMER, CHEMICAL PATENT, SILOXANE, POLYMER, HYDROXYL RADICAL. ORGANOMAGNESIUM COMPOUND, SACCHARIDE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1450

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

CIRC ACCESSION NU--AA0128849

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CIA-RDP86-00513R002202010009-5" APPROVED FOR RELEASE: 09/01/2001

UNCLASSIFIED PROCESSING DATE-300CT70 CIRC ACCESSION NO-AA0128849

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE TITLE COMPDS., WITH TERMINAL GROUPS CONTG. LARGER THAN OR EQUAL TO 3 OH GROUPS BOUND WITH C ATOMS, ARE PREPO. BY REACTION OF AN ALPHA, OMEGA, DICHLURDPOLY (DIALKYL KARYL, ALKENYL)SILOXANE) POLYMER HOMOLOG MIXT. WITH AN ORGANOMAGNESIUM COMPD., RMGX, IN WHICH R IS ALPHA FULLY ACETYLATED RESIDUE OF ANY MONO OR OLIGOSACCHARIDE. AND X IS CL OR BR. DIACETYLATION IS CARRIED OUT BY KNOWN METHODS. FACILITY: SSR AND SPECIAL CONSTRUCTION BUREAU OF CHEMIZATION OF THE NATIONAL ECONOMY. LATVIAN SSR AND SYNTHETIC RUBBER.

PART ACCEPTED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

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UNCLASSIFIED PRICESSING DATE--230CT70

TITLE-MECHANISM OF THE FORMATION OF DIMETHYLSILAZINE POLYMERS -U-

AUTHOR-(02)-RUMBA, G., MAY, L.

COUNTRY OF INFO--USSR

SOURCE--LATV. PSR ZINAT. AKAD. VESTIS. KIM. SER. 1970, (1), 90-5

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ORGANOSILICON COMPOUND, AMMONIA, METHANE, THERMAL EFFECT, POLYMERIZATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1868

STEP NO--UR/0464/70/000/001/0010/0095

CIRC ACCESSION NO--APOL23656 UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--23UCT70

CIRC ACCESSION NO--APO123656

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. DIMETHYLSILAZANE (I, A MIXT. OF
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. DIMETHYLSILAZANE (I, A MIXT. OF
CYCLIC TRIMERS AND TETRAMERS) WAS HEATED WITH 0.5-LO WT. PERCENT KOH AT
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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

UNCLASSIFIED

PROCESSING DATE--230CT70

1/2 TITLE--NEW SYNTHESIS OF

2.3,4,5,TETRA,O,ACETYL,1,6,DIBROMO,1,6,DIDEOXY, MANNITOL -U-

AUTHOR-(03)-MAY, L., BERZATE, A., FISERS, G.

COUNTRY OF INFO--USSR

007

SOURCE--LATV. PSR ZINAT. AKAD. VESTIS, KIM. SER. 1970, (1), 119-20

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CHEMICAL SYNTHESIS, MANNITOL, ACETATE, MAGNESIUM COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/0677

STEP NO--UR/0464/70/000/001/0119/0120

CIRC ACCESSION NO--APOL19585

UNCLASSIFIED

2/2 007 UNCLASSIFIED PROCESSING DATE--230C170
CIRC ACCESSION NO--APO119585
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. PBR SUB5 (0.06 MDLE) AND 0.02 MOLE
D-MANNITOL HEXAACETATE ARE MIXEO AND HEATED ON A BOILING WATER BATH 3-4
HR TILL THE SEPN. OF HBR STOPS GIVING THE TITLE (OMPD., (ALPHA) PRIME2O
SUBD MINUS 17.60EGREES (CHCL SUB3), D 1.902. WITH MG THE PRODUCT FORMED
A DI-GRIGNARD DERIV., 1 MOLE OF PRODUCT DISSOLVED 2 G ATOMS MG, AND THE
MG-COMPD. FORMED GAVE A POS. TEST WITH MISCHLER*\$ KETONE.
FACILITY: INST. NEORG. KHIM., RIGA. USSR.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

UNCLASSIFIED

PROCESSING DATE--23UCT70

1/2 013 UNCLASSIFIED TITLE--ALUMINUM DXYGEN BOND ENERGIES IN SOME CHELATE COMPOUNDS OF ALUMINUM -U-

AUTHOR-(03)-MAY, L., VEVERE, I., STRAUSS, I.

COUNTRY OF INFO--USSR

SOURCE--LATY. PSR ZINAT. AKAD. VESTIS, KIM. SEV. 1970, (1), 118-19

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ALUMINUM COMPLEX, BOND ENERGY: MASS SPECTROMETRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RESL/FRAME--1997/0670

STEP NO--UR/0464/70/000/001/0118/0119

CIRC ACCESSION NO--APOIL9578

UNCLASSIFIED

2/2 013

CIRC ACCESSION NO--APO119578

ABSTRACT THE ENERGIES OF THE AL-U BOND IN

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PROCESSING DATE--11SEP70 UNCLASSIFIED TITLE--CONDENSATION PRODUCTS OF ALUMINUM CHELATES WITH MANNITOL AND

SORBITOL HEXAACETATES -U-

AUTHOR--VEVERE, I., RIYEKSTINA, D., HAY, L.

COUNTRY OF INFO--USSR

SOURCE-LATV. PSR ZINAT. AKAD. VESTIS, KIM. SER. 1970, (1), 3-9

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ALUMINUM COMPLEX, DRGANOALUMINUM COMPOUND, CONDENSATION REACTION. ORGANIC COMPLEX COMPDUMD, NEUTRON ACTIVATION ANALYSIS. ACETATE, ALCOHOL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1987/1065

STEP NO--UR/0464/70/000/001/0003/0009

CIRC ACCESSION NO--APO104463

UNCLASSIFIED

2/2 014
CIRC ACCESSION NO--APO104463
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CONDENSATION PRODUCTS OF AL CHELATES LACETYLACETONATES. ETHYL ACETOACETATES) WITH MANNITOL AND SORBITOL MEXANCETATES CONTG. 1, 2, AND 3 CHELATE GROWINGS HAVE SEN NEUTRON ACTIVATION ANAL. IS REPORTED.

UNCLASSIFIED

UNCLASSIFIED

UNCLASSIFIED

USSR

UDC 547.241

LUKEVITS, O. K., and MAY I A., Institute of Inorganic Chemistry, Academy of Sciences Latvian SSR

"Synthesis of Aminoalky1(ary1)diphosphonic Acids"

Riga, Izvestiya Akademii Nauk Latviyskoy SSR, Seriya Khimicheskaya, No 6, 1970, pp 732-734

Abstract: Compounds RC(NH₂)/P(0)(OH)₂/₂ (I) 7 RC(NH₃)/P(OH)₂/P(O)(OH).

O (Ia) were prepared by reacting nitriles with PBr₃. Upon addition of 3g acetonitrile to 31.8 g PBr₃ under cooling with ice + NaCl, stirring of the mixture for 20 hrs at room temperature, further stirring at room temperature for 20 hrs on addition of 19.5 g. glacial acOH, and decomposition with ice water, l-aminoethane-l,l-diphosphonic acid (I, Ia; R = Me) was obtained with a yield of 4.1 g (28%) in the form of a precipitate that formed on evaporation of the solution. On recrystallization from aqueous acetone, 3.5 g. with m. pt. 277°. 1-phenyl-1-aminomethane-l,l-diphosphonic acid (I, Ia; R = Ph) was prepared similarly from benzonitrile and PBr₃. Its yield was 51% and its m. pt. on washing with dioxane 188.5-190°. Stirring on addition of glacial AcOH was carried out for only 4 hrs in the preparation of this

USSR

LUKEVITS, O. K., and MAY Latviya Akademii Nauk Latviyakoy SSR, Seriya Khimicheskaya, No 6, 1970, pp 732-734

compound; at this point, the mixture thickened. The product precipitated spontaneously on decomosition of the mixture with ice water, after the mixture had been allowed to stand. The IR spectra of the two compounds were determined.

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1/2 C19 UNCLASSIFIED

PROCESSING DATE--020CT70

TITLE--CHELATE ALLYLATES OF ALUMINUM -U-

AUTHOR- (02)-MAY. L. VEVERE, I.

CCUNTRY OF INFO--USSR

SOURCE--LATV. PSR ZINAT. AKAD. VESTIS, KIN. SER. 1970, (1) 110-11

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--IR SPECTRUM, PROTON, MAGNETIC RESONANCE, ALUMINUM COMPLEX, ACETOACETATE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--1989/0429

STEP NO---UR/0464/70/000/001/0110/0111

CIRC ACCESSION NO--APOLO7045

UNCLASSIFIED

2/2 019 UNCLASSIFIED PROCESSING DATE--020CT70
CIRC ACCESSION NO--APO107045
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. COMPLEXES OF ALLYL ALG. (ROH) WITH
AL. HAVING THE GENERAL FORMULA L (RO)AL(OR)SUB2 AL-(OR)L, WHERE L IS THE
ANION OF THE ENOL FORM OF ACETYLACETONE OR ETHYL ACETOACETATE, WITH 1
BRIDGING OR GROUPS, ARE FORMED BY THE ACTION OF ALLYL ALC. ON METALLIC
BRIDGING OR GROUPS, ARE FORMED BY THE ACTION OF ALLYL ALC. ON METALLIC
AL IN THE PRESENCE OF ACETYLACETONE OR ETHYL ACETOACETATE. FRESHLY
PREPD., THESE COMPDS. HAVE MOL. WTS. CORRESPONDING TO DIMERS, BUT UPON
STORAGE THE MOL. WTS. INCREASE, CORRESPONDING POSSIBLY TO TRIMERIC
STRUCTURES CONTG. 6 MEMBERED RINGS. THE IR AND PMR SPECTRA OF THESE
COMPDS. WERE STUDIED.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

1/2 027 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--CONDENSATION PRODUCTS OF ALUMINUM MONOCHELATES WITH TRIETHANDLAMINE

AUTHOR-(02)-VEVERE, I., MAY, L.

COUNTRY OF INFO--USSR

SOURCE--LATV. PSR ZINAT. AKAD. VESTIS, KIM. SER. 1970, (1), 19-22

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CONDENSATION REACTION. IR SPECTRUM, SPECTRUSCOPEC ANALYSIS, ORGANIC COMPLEX COMPOUND, ETHANOL, AMINE DERIVATIVE, ORGANICALUMINUM COMPLEX, PICRATE

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1993/0732

STEP NO--UR/0464/70/000/001/0019/0022

CIRC ACCESSION NO--APOI13596

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--160CT70 CIRC ACCESSION NO--APOLISS96

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TWO NEW COMPDS. ARE OBTAINED AND IDENTIFIED FROM THE CONDENSATION OF MONOCHELATES LEIGHPEN ADJUNATO DIISOPROPOXIDE AND ETHYLACETOACETATO DIISOPROPOXIDE) OF AL WITH TRIETHANDLAMINE. THEY FORM PICRATES AS EASILY AS ERIETHANDLAMINE AND THEIR IR SPECTRA ARE REPORTED. FACILITY: INST. NEORG. KHIM.. RIGA, USSR.

UNCLASSIFIED

Organophosphorus Compounds

USSR

UDC 543.422.25:547.241

MAY, L. A. and LUKENICH, O. K., Institute of Inorganic Chemistry, Academy of Sciences Latvian SSR

"NMR Spectra of 1-Hydroxyetyliden-1,1-diphosphonic Acid"

Riga, Izvestiya Akademii Nauk Latbigskoy SSR, No 3, 1973, pp 372-373

Abstract: The nmr spectra of the title compound (II) were nade and compared with that of 1-aminoethyliden-1,1-diphosphonic acid. The spectra of (II) were made in $\rm H_2O$, $\rm D_2O$, and $\rm D_2O$ plus traces of dimethylsulfoxide (DMSO) and showed a very clear and symmetrical triplet of CH₂ protons having a J = 13.5 not observed. The center of the triplet components, as seen in the spectra of (I), was for DMSO and 3.2+0.03 for H₂O. The center of the triplet in other cases may be taken to be 8.42+0.05. In contrast to the spectra of (I), some signals (for example the tert. OH-group) were not observed in spectra of (II) before and after the H₂O signal. The triplet and H₂O signal are identical, apparently as a consequence of proton exchange.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

1/2 017
TITLE—ANTIFROTHING AGENTS FOR AQUEOUS SYSTEMS CONTAINING SURFACE ACTIVE
ALTERNATION 100

AUTHOR-(03)-GOLOMB, L.M., MAY, L.S., GONCHAROVA, G.G.

COUNTRY OF INFO-USSR

SOURCE-KHIM. PROM. UKR. 1970: (2), 41-3

DATE PUBLISHED ---- 70

M

SUBJECT AREAS-CHEMISTRY, MATERIALS

TOPIC TAGS-ANTIFOAM ADDITIVE, SURFACE ACTIVE AGENT, EMULSION, POLYSILOXANE/(U)PMS1000A POLYSILOXANE, (U)DS2 EMULSIFIER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PRUXY REEL/FRAME--2000/0959

STEP NO---UR/0436/70/000// 302/0041/0043

CIRC ACCESSIGN NO-APO124619

UNCLASSIFIED

2/2 017 UNCLASSIFIED PROCESSING DATE--300CY70
CIRC ACCESSION NO--APO124619
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. GOOD RESULIS WERE LATAINED WITH
THE PRODUCT SE-2. CONSISTING OF A 30PERCENT EMULSION OF
PULY(METHYLSILOXANE) PMS-1000A MADE IN A 3PERCENT AC. SOLN. OF THE
EMULSIFIER OS-2 BY MIXING AT 300 RPM. FHIS ANTIFADTHING AGENT USED IN
ANTS. OF 0-01-0-05PERCENT WAS EFFECTIVE IN PREVENTING FROTH FORMATION
AND IN BREAKING THE FROTH IN AQ. SOLNS, CONTG. ANTONACTIVE AND NORIGNIC
SURFACTANTS. FACILITY: RUBEZHAN. FILIAL, MNOPK, RUBEZHHOE,
USSR.

Sources, Secondaries

USSR

WPG 621.77.2

MOVAL CHENKO, M. S., and MAY, M. H., Institute of Problems of Material Science, Academy of Sciences Ukrainian SSR

"Creep During Hot Extrusion of Titanium Diboride Powder"

Elev, Poroshkovaya Metallurgiya, No 8, Aug 73, pp 23-27

Abstract: The a process of hot extrusion of titanium diboride powders with a varying particle size and varying content of iron impurity was investigated and an analysis of the phenomenon of creep during powder com-paction was made. The powders contained 0.1 and 0.4 mans % Ne. The powder with 0.4 mass & Fe was put into a vibration grinder for three hours, after which its iron content was increased to 1.5 mass % Fe and the average particle size was less than one micron. Chemical Composition of the Titanium Diboride powders was (in Mass %):

Tachnia 22				
Technically bure Batch 1 Batch 2	Ti 69.0 68.0	B 30.3 30.8	0. <u>32</u>	Pe 0.1
1-micron powder	67.7	30.3	0.514	0.1
		JV# J	U	7

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

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MOVAL CHENKO, M. S., and MAY, H. H., Poroshkovaya Metallurgiya, No 8, Aug 73, pp 23-27

The relationship between relative density of the extruded powders and temperature, time, and applied load was established and it is shown that the process of compacting TiB, powders can be described by an equation for the volumetric viscous flow of a porous body which includes the equation of kappa-creep. The derived creep rates of the solid phase in the compacting process were determined and the proportionality of their cube of pressure for the technically pure powder was established along with the fourth laplace pressure for the powder with 1.5 mass % Fe. The magnitudes of blished that upon increasing the Fe content in the titanium diboride powder there is a substantial increase in the rate of compaction and grain growth, stage of hot extrusion. Three figures, one table, nine bibliographic

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UDC 621.762:621.772

ni (linexti ni (ni)) m (litte trismani (n) (m)) mran (salimi inal membra) me (m) (m) km (m) km (m) km

MAY, V. K., DENISENKO, E. T., and MHRIYENKO, A. F., Institute of the Problems of Material Science, AN UKrSSH

"Effect of Nichrome Powder Structure Characteristics of Hot Pressuring Kinetics"

Kiyev, Poroshkovaya Metallurgiya, No 6 (102), Jun 71, pp 25-28

Abstract: The metallographic investigation of hot pressed Nichrose specimens did not reveal a substantial growth of grains with increasing temperature and increasing pressure. Therefore, the main parameters characterizing the structural factor must be of the size of the initial powder particles and the magnitude of the mosaic blocks established during the hot preasing process. The effect of initial powder particle sizes on the packing rate was experimentally investigated on powder of Nichrome Kh2ONSO. Its packing kinetics and calculated deformation change kinetics during hot pressing are shown. The structural factor characterizing the packing rate during hot pressing was found to be a monotonically decreasing function of the average powder particle size. The character and direction of the substructure change during hot pressing are determined not only by temperature and the hot pressure, but they depend also on preliminary thermal treatment of the powder. Four illustr., two tables, five formulas, five biblio. refs.

1/2 028

UNCLASSIFIED

PROCESSING DATE--023CT70

TITLE--GLAUCOMA TREATMENT AT THE EYE DEPARTMENT OF THE PICKET SANATORIUM

AUTHOR--MAYACHENKOVA, YE.V.

COUNTRY OF INFO--USSR

(P)

SOURCE--VESTNIK OFTAL MOLOGII, 1970, NR 2, PP 90-91

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--EYE DISEASE, MEDICAL FACILITY, HYPERTENSION

CONTROL HARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1986/0696

STEP NO--UR/0357/70/000/002/0090/0091

CIRC ACCESSION NO--APO102680

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

2/2 028 **UNCLASSIFIED** PROCESSING DATE--020CT70 CIRC ACCESSION, NO--APO102630 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE KISLDVODSK SANATORIUM PRICKETT HAS A SPECIALIZED EYE DEPARTMENT WHICH HAS BEEN IN BERVICE FOR OVER 10 THERE, FOR THE FIRST TIME IN THE SOVIET UNION, NATURAL CURATIVE FACTORS HAVE BEEN USED IN TREATING GLAUCOMA. THE METHOD OF HEALTH RESORT THERAPY WAS INITIATED BY LATE PROF. N. M. PAWLOV. THE PRINCIPAL ELEMENTS OF THE HEALTH RESURT THERAPEUTIC COMPLEX ARE NARSAN (MINERAL WATER) BATHS, CLIMATIC PROCEDURES, TERRAIN GURE, THÉRAPEUTIC EXERCISE. VARIOUS HYDRO AND PHYSICAL PROCEDURES. IMMEDIATE RESULTS OF THE TREATMENT INCLUDE: VISUAL ACUITY INCREASE BY 0.1 IN 48.4PERCENT OF CASES, DECREMENT OF THE INTRAOCULAR TENSION IN 74.7PERCENT OF CASES, OF WHICH 51.6 TO THE NORMAL LEVEL, IMPROVEMENT OF PERIPHERAL VISION IN 84.3PERCENT OF INSTANCES. THESE RESULTS PERSISTED FOR 6 TO 10 MONTHS. AFTER HEALTH RESORT TREATMENT, AND PARTICULARLY ON ETS REPETITION, THE FURTHER DEVELOPMENT OF GLAUCOMA WAS HALTED:

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

GUINEA PIGS -U-

UNCLASSIFIED PRUCESSING DATE--230CT70 TITLE--THE ANTIGENIC STRUCTURE OF SOLUBLE COMPONENTS OF LYMPH NODES OF

1/2

AUTHOR--MAYANSKIY, A.N.

COUNTRY OF INFO--USSR

SOURCE--BYULLETEN* EKSPERIMENTAL*NOY BIOLOGII I MEDITSINY, 1970, VOL 69, NR 5, PP 78-82

وروا الوالية الموسار وسوارا

DATE PUBLISHED----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ANTIGEN, AQUEOUS SOLUTION, LYMPHOID TISSUE, INMUNOLOGY, ELECTROPHORESIS, SPLEEN, BONE MARROW, LIVER, GUINEA PIG

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0093

STEP NU--UR/0219/70/069/005/0078/0082

CIRC ACCESSION NO--APO120793

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

2/2 026 UNCLASSIFIED CIRC ACCESSION NO--APO120793 PROCESSING DATE--230CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IN REACTIONS OF GEL PRECIPITATION COUCHTERLONY'S METHOD AND IMMUNDELECTROPHORESIS) AND INDIRECT HEMAGGLUTINATION THE AUTHOR STUDIED WATER SOLUBLE ANTIGENS OF GUINEA PIG LUMPH NODES. IMMUNOSLECTROPHORETICALLY IN A WATER SCLUBLE EXTRACT 13 ANTIGENIC COMPONENTS WERE REVEALED. BASING UPON AM ANALYSIS OF IMMUNOCHEMICAL INTERRELATIONS WITH EXTRACTS OF THE SPLEEN, BONE MARROW, LIVER, LUNGS, AND KIDNEYS SIX "GROUPS" OF LYMPH NUDE ANTIGENS WERE REVEALED, WHICH WERE CHARACTERIZED BY A DIVERSE RANGE OF IMMUNOCHEMICAL SIMILARITY WITH SOLUBLE COMPONENTS OF DIFFERENT ORGANS. THE PRESENCE OF ANTIGENS SPECIFIC FOR LYMPH NODES, FOR LYMPH NODES, SPLEEN AND BONE MARROW, LYMPH NODES AND LIVER. THE COMPLICATED IMMUNOCHEMICAL FEATURE OF SOLUBLE COMPONENTS MAY BE A REFLECTION OF THE FUNCTIONAL VARIETY OF FACILITY: KAZAN SCIENTIFIC RESEARCH INSTITUTE OF EPIDEMIOLOGY AND MICROSTOLOGY.

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Acc. Nr: AP0044189

Ref. Code: UR 0016

PRIMARY SOURCE:

Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, 1970, Nr 2, pp 67-72

ALLERGEN FRACTIONS OF BACTERIA OF INTESTINAL FAMILY

REPORT 1

IMMUNOCHEMICAL AND ALLERGOLOGIC CHARACTERISTICS
OF THE PREPARATIONS OBTAINED
BY ANDO — VERZHIKOVSKY'S METHOD FROM VARIOUS
STRAINS OF THE SAME SPECIES (ENTEROBACTER CLOACAE)

K. S. Zobnina, Mayanskiy A. N.

Experiments were performed on sensitized guinea pigs. An allergen activity of an extracellular fraction, isolated by the method of Ando—Verzhikovsky from the broth culture filters of bacterial species Enterobacter cloacae was demonstrated. The preparations produced from 10 strains of Ent. cloacae, which belonged to the same and different O—K-types, had an affiliated immunochemical structure and gave cross skin-allergic reactions. From 13 to 15 antigenic components were revealed immunophoretically in the Ando—Verzhikovsky's fraction. A supposition was put forward on the presence of a complicated set of allergy-producing components in the microorganisms.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

UDC 617-001,28-089:616,419-089,843)-038.8-008.931:577.154.25

MAYANSKIY, D. N., Chair of Pathological Physiology, Kazan Medical Institute

"Isoenzymatic Spectrum of Lactic Debydrogenase in Xenogenia Radiation Chimeras"

Moscow, Byulleten' Eksperimental'noy Biologid i Meditsiny, Vol 70, No 7, Jul 70, pp 47-50

Abstract: The bone marrow, spleen, liver, and erythrocytes were studied in mide irradiated with a lethal dose of 850 r and protected after 24 hours by implantation of rat myeloid cells. New "chimeric" spectra of isoencymes of lactic dehydrogenase were qualitatively determined which gradually stabilized within 30-50 days. With the aid of an isoencymatic marker, it was possible to determine all types of donor hematopoietic cells and to evaluate the distribution of donor cells and the quantitative ratio of hematopoietic ceries of the donor and racipient at different periods of chimeriam with sufficient accuracy. Employment of an isoencymatic tag was based on differences in electrophoretic metility and on the percentage ratios of lactic dehydrogenase isoencymes in rat and mount organs fractionated in agar gel.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

APO030993

Ref. Code: UR 0219

PRIMARY SOURCE:

Byulleten' Eksperimental'noy Biologii i

Meditsiny, 1970, Vol 69, Nr 1, pp 6/-64

THE FORMATION OF RAT IMMUNOGLOBULINS IN MICE BY RAT SPLEEN CELLS TRANSPLANTED IN THE EARLY POSTNATAL PERIOD

Mayanskiy, D.N. Kazan Medical Institute

The author administered intraperitoneally 1.106—4.7.107 rat splean cells to meonate mice during the first 12 hours after birth. 2½ weeks after transplantation 1.9.107—2.107 and 4.2.107—4.7107 cells in mouse blood appeared rat immunoglobulins of type 1gG and 1gM. immunoglobulins of 1gG type continued to appear in the blood of the rat-mouse chimera for 5 weeks from the moment of transplantation. The presence of rat globulins in the blood of chimera coincided with accumulation in bone marrow of cells containing alkaline phosphatase with marked manifestations of festions disease. alkaline phosphatase with marked manifestations of festoons disease.

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REEL/FRAME

19691019

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

UDC: 681.327.8

MAYANTS, V. I., LUTTSO, V. P.

"A Device for Automatic Telephone and Videotelephone Communications"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Toyurnyye Znaki, No 10, Apr 72, Author's Certificate No 332583, Division H, filed 13 Apr 70, published 14 Mar 72, p 227

Translation: This Author's Certificate introduces a device for automatic telephone and videotelephone communications which contains automatic offices with connecting lines, a video attachment, and a video channel commutator matrix. As a distinguishing feature of the patent, the device is designed for uniting the videotelephone and telephone systems while reducing the equipment complement, which is accomplished by using a recognition device for the called party to control the video channel matrix. This recognition device is connected by a control circuit to a marker generator. The marker generator is connected through a telephone subscriber identifier to the lines of the automatic offices with video attachments in such a way that the recognition device is connected to the video channel commutation matrix by the contactors in a matrix which is

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MAYANTS, V. I., LUTTSO, V. P., USSR Author's Certificate No 332583

connected to the subscriber lines by a delay circuit. The recognition device is made in the form of parallel circuits connected to the output of the marker generator. Each of these circuits is connected into the corresponding line of the video subscriber's automatic office, which is connected in turn to a NOR logic stage whose output is connected to the recognition device for the called party. The first input of the NOR circuit is connected to one conductor of the lines through an inverter whose output is connected to the matrix through the delay circuit. The second input of the NOR circuit is connected to the input of a flip-flop. One input of the flip-flop is connected to the second conductor of the line, and the output of the telephone subscriber identifier is connected to the other input of the flip-flop.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

1/3 024 UNCLASSIFIED TITLE--VAGOTOMY IN SURGERY OF PEPTIC ULCER -U-

PROCESSING DATE--27NOV70

AUTHOR-(03)-MAYAT, V.S., PANTSYREV, YU.M., GRINBERG, A.A.

COUNTRY OF INFO--USSR

50URCE--KHIRURGIYA, 1970, NR 6, PP 28-34

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--SURGERY, STOMACH, DIGESTIVE SYSTEM DISEASE, SECRETION, INSULIN, HEMORRHAGE

CONTROL MARKING--NC RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0052

STEP NO--UR/0531/70/000/006/0028/0034

CIRC ACCESSION NO--APO137243

UNCLASSIFIC

TERMINITALISM DE LA CRETATION DE LA CRETATION

2/3 024 UNCLASSIFIED PROCESSING DATE--27NOV7G CIRC ACCESSION NO-- APO137243 ABSTRACT. ON THE BASIS OF LITERATURE DATA ABSTRACT/EXTRACT--(U) GP-0-AND PERSONAL ABSERVATIONS THE AUTHORS PRESENT A PATHOPHYSIOLOGICAL SUBSTANTIATION OF DIFFERENT METHODS IN THE SURGICAL TREATMENT OF PEPTIC ULCER. THE NECESSITY OF DIFFERENTIATED APPROACH IN SOLVING THE PROBLEM OF THE OPERATIVE TECHNIQUE WITH DUE CONSIDERATION OF THE LOCALIZATION AND COURSE OF ULCER, FEATURES SPECIFIC TO THE SECRETORY AND MOTOR FUNCTION OF THE STOMACH, IS EMPHASIZED. OUT OF 345 OPERATIONS IN PERIOD ULCER 150 WERE PREFORMED IN COMBINATION WITH VAGOTOMY. IN OVER BO PER CENT OF PATIENTS THERE WERE ABSOLUTE OPERATIVE INDIBATIONS. ECONOMIC RESECTION OF THE STOMACH IN COMBINATION WITH VAGOTOMY IS THE OPERATION OF CHOICE IN CHRONIC DUODENAL ULCER. PYLOROPLASTY WAS CARRIED OUT ONLY IN PATIENTS WITH A MARKED PREVALENCE OF SECRETION AFTER INSULIN STIMULATION. IN STENOSIS OF THE PYLORUS THE OPERATIVE TECHNIQUE IS MAINLY DETERMINED BY THE DEGREE OF STENOSIS AND STATE OF THE GASTRIC MOTOR ACTIVITY. A RARE INHIBITION OF THE LATER SHOWED SERVE AS A CONTRAINDICATION TO VAGOTOMY. SPARING OPERATIONS ARE PARTICULARLY EXPEDIENT IN EMERGENCY SURGERY IN PERFORATING ULCERS AND PROFUSE ULCEROUS HEMMORRHAGES. THE IMMEDIATE RESULTS OF 180 OPERATIONS WITH VAGOTOMY ARE SATISFACTORY. OUT OF 80 PLANNED OPERATIONS THERE WAS ONE LETHAL ISSUE. THE GREATEST LETHALITY WAS OBSERVED IN THE GROUP OF PATIENTS OPERATED FOR PROFUSE HEMORRHAGE. RELAPSES OF PERTIC ULGER WERE THERE WERE SEEN NO MARKED POSTGASTRECTOMY DISORDERS. AT NOT OBSERVED. REMOTE POSTOPERATIVE PERIODS A MODERATE DIARRHEA WAS REVEALED IN 2 OUT OF 65 CLINICALLY EXAMINED PATIENTS.

UNCLASSIFIED

JA3 024 UNCLASSIFIED PROCESSING DATE--27NOV70
CIRC ACCESSION NO--APO137243
ABSTRACT/EXTRACT--FACILITY: KAFEDRA GOSPITAL'NOV KHEFURGIL. IIMII IMENI
N. I. PIROGOVA.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

1/2 026 UNCLASSIFIED PROCESSING DATE--L8SEP70
TITLE--PERITONITIS ON PATIENTS WITH ACUTE APPENDICITIS -U-

AUTHOR-(03)-MAYAT, V.S., FEDOROV, V.D., NIKITIN, A.M.

COUNTRY OF INFO--USSR

SOURCE--KHIRURGIYA, 1970, NR 4, PP 89-97

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--DIGESTIVE SYSTEM DISEASE, SURGERY, PERITONEUM, ANTIBIOTIC DRUG

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/1232

STEP NO--UR/0531/70/000/004/0089/0097

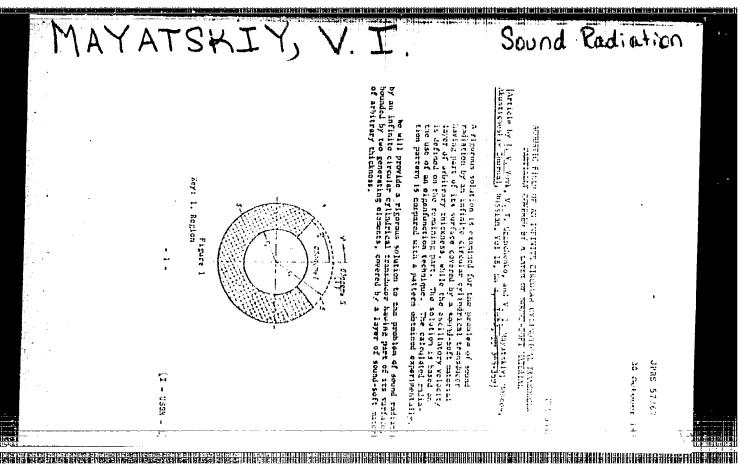
CIRC ACCESSION NO--APO054127

UNCLASSIFIED

PROCESSING DATE-+18SEP70 UNCLASSIFIED 2/2 026 CIRC ACCESSION NO--APO054127 ABSTRACT. FOR A TWENTY YEAR PERIOD THE ABSTRACT/EXTRACT--(U) GP-0-CLINIC OPERATED UPON MORE THAN 20,000 PATIENTS WITH ACUTE APPENDICITIS, DURING THE LAST TEN YEARS THERE WAS NOTED AN INCREASED INCIDENCE OF EXTREME FORMS OF DESTRUCTION OF THE VERMIFORM APPENDIX AND SUCH COMPLICATIONS AS PERFORATION AND DIFFUSE SUPPURATIVE PERIFORITIS. THIS RESULTED IN AN AUGMENTED POSTOPERATIVE LETHALITY. DIFFERENT FORMS OF PERITONITIS WERE OBSERVED IN 790 PATIENTS OUT OF THE LAST 5200 (ISPERCENT) APPENDECTECTOMIES. LETHAL DUTCOMES WERE OBSERVED ONLY IN COMPLEX TREATMENT PATIENTS ADMITTED WITH MANIFESTATIONS OF PERITONITES. PROVED TO BE LEAST EFFECTIVE IN DIFFUSE AND GENERAL SUPPURATIVE BACTERIOLOGICAL INVESTIGATIONS ENABLED TO SUBSTANTIATE THE BEST RESULTS NECESSITY OF USING ANTIBIOTICS OF THE NEOMYCIN SERIES. WERE OBTAINED IN PATIENTS IN WHOM SANATION OF THE ABDOMINAL CAVITY WAS CARRIED OUT BY MEANS OF WIDE LAPAROTOMY AND MASSIVE IRRIGATION WITH AN ISOTONIC SOLUTION WITH SUBSEQUENT PROLONGED FLOW IRRIGATION (5 TO 6 LITERS OF RINGER'S SOLUTION WITH 5 TO 6 GM OF CANAMYCIN PER 24 HOURS). AN ANALYSIS OF CLINICAL OBSERVATIONS ENABLED TO CONCLUDE THAT TO REDUCE THE LETHALITY IN ACUTE APPENDICITIS IT IS NECESSARY TO FURTHER IMPROVE THE TECHNIQUES OF TREATING SUPPURATIVE PERITORITIS. TO WIDEN THE SANITARY EDUCATION WORK AND TO INCREASE THE QUALIFICATION OF PHYSICIANS IN THE DIAGNOSIS OF ACUTE SURGICAL DISEASES OF ABDOMINAL ORGANS.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"



UDC 621.396.677.49.012.12

LEYKO, N. S. and MAYATSKIY, V. I.

"Statistical Properties of the Radiation Patterns and Selection of Ratings for Dolph-Chebyshev Arrays"

Moscow, Antenny, No 12, 1971, pp 3-12

Abstract: Since antenna excitation is always accompanied by random errors, the authors apply statistical procedures to the problem of determining the extreme radiation pattern sidelobe level and the optimal selection of the nominal excitation of Dolph-Chebyshev arrays on the assumption that as the sidelobe level approaches 0, these arrays display a binomial distribution. Considering the ratios of the nominal beamwidth to the nominal and statistical sidelobe levels in a field at the 0.7 level, the normally distributed phase and amplitude errors are determined and the probability density distribution for a vectorized random radiation pattern is given, including an asymmetry factor K². The statistical sidelobe level is then found from the variance of the amplitude and phase errors, the number of array elements, their spacing in wavelengths, and either the sidelobe level of the nominal radiation pattern or its main beamwidth. The formulas require computer solutions. They are simplified for engineering calculations and graphs are

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LEYKO, N. S. and MAYATSKIY, V. I., Antenny, No 12, 1971, pp 3-12

shown for various sidelobe levels and probabilities when $K^2 = 1$. If $K^2 \neq 1$, the problem generally cannot be solved. A comparison of the statistical and nominal curves shows a considerable difference for small sidelobe values, which is explained by the nature of the distribution as the main beamwidth increases. The minimum statistical sidelobe level is found from the Rayleigh distribution to correspond to some value of the minimum mominal level, which also determines the optimal nominal Dolph-Chebyshev array parameters. Thus, for example, if the amplitude-phase variance sum is greater than 0.05, the minimum statistical level corresponds to sidelobe levels within the limits 0.01-0.03. The authors believe that their procedure will allow a more rational choice of the nominal array design parameters, since problems which cannot be solved when the sidelobe level is chosen less than a minimum value are eliminated and the statistical functions permit a more specific appraisal of the balance between low sidelobe levels and wide beamwidths.

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- 12 -

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

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WDC 534.2

LEYKO, A. G., and MAYATSKIY, V. I.

"Concerning the Diffraction of Sonic Waves on a Periodic Cascade of Elliptical Cylinders"

Tr. Taganrog. Radiotekhn. In-ta (Works of the Taganrog Radiotechnical Institute) No 22, 1971, pp 56-63 (from Referativnyy Zhurnal, Mekhanika, No 2, Feb 72, Abstract No 28245 by Ye. F. Afanas'yev)

Translation: The article deals with a steady-state problem of the determination of a sound filed, outside a cascade of elliptical cylinders and within the cylinders, during the incidence upon it of a plane sonic wave at an arbitrary angle. The medium outside the cylinders and within them is cheharacterized by different densities. Local elliptical coordinates are used. The solution of the problem is sought in the form of series on the basis of Mathieu functions. For the unknown coefficients, an infinite system of linear algebraic equations is constructed. Dispension coefficients are found which determine first-order diffraction waves with no account taken of the reciprocal action of the cylinders.

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VDC: 534.26

VOVK, I. V., GRINCHENKO, V. T., MAYATSKIY, V. I., Kiev

"Acoustic Field of an Infinite Circular Cylindrical Transducer Fartially Covered by a Layer of Acoustically Soft Material"

Moscow, Akusticheskiy Zhurnal, Vol 18, No. 3, pp 365-369

Abstract: A strict solution is given for the problem of sound emission by an infinite circular cylindrical transducer on which a part of the surface bounded by two generatrices is covered by a layer of acoustically soft material of arbitrary thickness, assuming a predetermined arbitrary distribution of the normal component of the oscillatory velocity over the uncovered region of the surface. The solution is based on use of the method of eigenfunctions. The final infinite system of linear algebraic equations is studied for quasiregularity. An analysis of the radiation pattern of a specific transducer using the proposed method agrees well with experimental results.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

UDC 619:616.981.42-084.47

ZHOVANIK, P. N., MAYBORODA, A. A., and YERZH, N. I., Ukrainian Scientific Research Institute of Experimental Veterinary Medicine

"Effectiveness of Nonagglutinogenic Vaccine Against Brucellosis"

Moscow, Veterinariya, No 6, Jun 73, pp 50-52

Abstract: In connection with a study of mutations of Brucella microorganisms, strains of nonagglutinogenic mutants were selected which had lowered virulence, exhibited pronounced immunogenicity, and did not stimulate the formation of antibodies that reacted with the ordinary brucellosis antigen. One of these strains, Br. abortus V-8, which was found to retain its cultural and biological characteristics for about 10 yrs, was used for the preparation of an antibrucellosis vaccine. Good results were obtained in field tests by applying this vaccine for the immunization of cattle.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002202010009-5"

USSR

UDC 615.616.24-003.656.6

MAYBORODA, S. I., MAYBORODA, A. A., CHERNYAK, D. A.

"Effect of Foam Plastic Dust on the Lungs of Experimental Animals"

Nauch. tr. Irkutsk. med. in-t (Scientific Works of the Irkutsk Medical Institute), 1972, vyp. 110, pp 43-45 (from R2h--Farmako-logiya. Khimioterapevticheskiye Sredstva. Toksikologiya, No 3, Mar 73, Abstract No 3.54.898)

Translation: Fifty milograms of phenol formaldehyde resin molding coater in 0.5 ml of physiological solution were administered intratracheally to rats. During histologic studies for two months of observations, an exudative-proliferative reaction was noted in the lungs with subsequent development of polypose pambronchitis and initial manifestations of pneumosclerosis. The degree of expression of fibrosis depended on the magnitude of the foam plastic dust accumulations in the lung tissue. It is proposed that the foam plastic acting on the lung tissue causes the formation of autoantigens and that a significant role in the development of the pathologic processes played by the autoimmune component. USSR, Irkutsk, Medical Institute. 1/1

Veterinary Medicine

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USSR

UDC 636.2:615.371

ZHOVANIK, P. H., Doctor of Veterinary Sciences, and MAYBOROM, A. A. and YERZH, N. I., Candidates of Veterinary Sciences, Ukrainian SSR Scientific Research Institute of Veterinary Science

"Tests of Strain B-8 Nonagglutinating Brucellosis Vaccine in Imminization Experiments on Young Cattle"

Moscow, Doklady Vsesoyuznoy Ordena Lenina Akademii. Sel'skokhozyaystvennykh Mauk imeni V. I. Lenina, No 8, 1972, pp 33-35

Abstract: Dry, live brucellosis vaccine obtained from cultures of nonagglutinating, weakly virulent mutant Brucella abortus, strain B-8 was tested in the laboratory of guinea pigs and 5-19 month old heifers and at two brucellosisinfected farms on 5-10 month old heifers. The preliminary laboratory experiments indicated that the vaccine did not cause appearance of agglutining and generated stable immunity. No significant pathological changes due to the vaccine were noted. In a 2-year period 641 heifers at 2 farms were immunized at 5-10 months old and revaccinated 1-2 months prior to fertilization. Pathological changes were insignificant up to 6 weeks after vaccination, while none were noted among heifers slaughtered 10 months after vaccination. The vaccine culture was found to survive well for the lat 3 weeks and then rapidly 1/2

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APPROVED FOR RELEASE: 09/01/2001

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ZHOVANIK, P. N., et al., Doklady Vsesoyuznoy Ordena Lunina Akademii Sel-skokhozyaystvennykh Nauk imeni V. I. Lenina, No 8, 1972, pp 33-35

disappear by the 6th week. Heragglutination and complement-fixation reactions were negative after vaccination and revaccination for all but I imminized heifer. The preventative properties of blood serum from 69 vaccinated heifers were tested on white mice. Such serum resulted in \$1.35 survival of mice infected with a highly virulent strain, while only 32.65 of such nice survived when not treated with the serum. The immunity of 13 vaccinated and 12 control heifers was tested by infecting them with standard strain Br. abortus 544. While a generalized infection resulted among all control animals, 13 immunized heifers had complete immunity and 5 had partial immunity. All 5 animals infected after revaccination exhibited complete immunity. It is concluded that this vaccine should be tested further and employed on young animals to improve the condition of brucellosis-infected herds.

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UDC 669.721.018.9(088.8)

RYABUKHOV, S. I., KIMSTACH, G. M., PIRYAZEV, V. P., UTKIN, S. Ye., and MAYBORODA, M. V.

"Device for Production of Magnesium Alloy"

USSR Author's Certificate No 268450, Filed 30/12/66, Published 8/09/70 (Translated from Referativnyy Zhrunal-Metallurgiya, No 2, 1971, Abstract No 2 G189 P)

Translation: A device suggested for the production of an Mg alloy includes an induction furnace with a rotating mechanism and a mold. To decrease the expenditure of Mg and improve the properties of the alloy, the device is equipped with a replaceable mold, hermetically placed on the crucible of the induction furnace. A steel plate which is melted during the process of melting the alloy is placed between the induction furnace and the mold in order to decrease the free surface over the melt and aliminate cold surfaces which would condense the Mg from its vapors.

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MAYBORODA, S. I., MAYBORODA, A. A., CHERNYAK, B. A.

"Effect of Foam Plastic Dust on the Lungs of Experimental Animals"

Nauch. tr. Irkutsk. med. in-t (Scientific Works of the Irkutsk Medical Institute), 1972, vyp. 110, pp 43-45 (from RZh--Farmakologiya. Khimioterapevticheskiye Sredstva. Toksikologiya, No 3, Mar 73, Abstract No 3.54.898)

Translation: Fifty milograms of phenol formaldehyde resin molding coater in 0.5 ml of physiological solution were administered intratracheally to rats. During histologic studies for two months of observations, an exudative-proliferative reaction was noted in the lungs with subsequent development of polypose pambronchitis and initial manifestations of pneumosclerosis. The degree of expression of fibrosis depended on the magnitude of the foam plastic dust accumulations in the lung tissue. It is proposed that the foam plastic acting on the lung tissue causes the formation of autoantigens and that a significant role in the development of the pathologic processes played by the autoimmune component. USSR, Irkutsk, Medical Institute.

- 31 -

MAYBUROV	, V. B.				
JPRS 56371 28 June 1972	Lyul'yev, V.B. Mayburov, I.S. Savchenko, and Russian, 27 November 1970, pp 1-13] a the study of the interaction of high-frequency fract the creation of exceptionally powerful 1-5 magahertz frequency range. Reference [11] let and a high frequency 3-phase self-excited ferection of a traveling field with a place. The confictions of the the confiction of the stalled power of the titues of the self-excited with a place.	is studies of dynamic stabilitation y electromagnetic fields of quadra- arms column are unset, the parior- on of a generator bank with a for- fired with the secessity for summing mounting phaning such as to obtain ration of the generator on a variable a and the concection with the plassma, emerators are characterized by opera-	coupling of the High Frequency field to pleans, as a tele, do not extend 10.40. This permitted application of disec- ments ufficie or mercing devices, if the please does not lead to a if by the please does not lead to a	nt loading of the effects by the a the strong voltage reductions in bed in these cases. [I - USSR - I.]	
MULTIUM GENERATOR BANK	TARTICLE by G.I. Zverev, V.L. Lyul'yev, V.B. Mayburov, I.S. Savchenko, and I.R. Yampol'skiy; Preprint-6, Russian, 27 November 1970, pp 1-13] The experimental work in the study of the interaction of high-frequentials a plants have required the creation of exceptionally powerful contains a mescripton of a setup and a high frequency range. Reference [1] certifies a description of a setup and a high frequency range. Reference [1] certifies a description of a studying the interaction of a strong connection of the critical to the plants. The interaction of a strong connection of the perfective to the plants. The interaction of the conditiator is 60 megazatts.	in references [2, 3] on experimental studies of dynamic etablisation but confinement of a plane, high frequency electromagnetic fields of quadranance configuration rotating around the planes column set used. The performance of this research required the creation of a generacy bank with an installed thus capacity of about 60 magnesits. The primary difficulties in fire the former of a large number of tubes and insuring which a secessity for armore firstling electrons of this type are connected with the secessity for armore for this grant of the plane in a variation depends on the planes properties and the concaction with the plane in a contrast to [1], the described generators are characterized by open	In Contactions determined by the leve coupling of the figh Frequency field relatively stated the leavel of the high frequency fields in the planes rejon is ristively stated in the planes rejon is retrieved for the longes in the planes, as a fulls, do not exceed 10-6 of the content of the facility. This permitted application of the first the this manual ufficial or mention of the first in the code without a blanes, the gabacter expenses in a serious; devicted, forther facilities of the circuit by the planes does not lead to a right feature proceed relicion to voltage on the tircuit, and the tube conditions	in a number of cases made sightficent loading of the circuit by plans was observed. In order to minimate the strong roltage reduction was used in these cases. - 1 - [I - USS	

USSR

MAYCHIK, Yu. F., Doctor of Medical Sciences, and ABAZOV, T. H., Clinical Viral Department of the Moscow Scientific Research Institute of Eye Diseases imeni Helmholz

"Therapeutic Effectiveness of Florenal in Adenoviral Hye Diseases"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 10, 1971, pp 61-62

Abstract: According to data released by the All Union Scientific Research Chemicopharmaceutical Institute, the new Soviet drug florenal exerts a strong neutralizing effect on some viruses. The drug was tested by the authors on 30 male and female patients, aged 10 to 80, who had had uni- and bilateral adenoviral conjunctivitis and keratoconjunctivitis for 2 to 21 days. The drug was applied to the eyes in the form of a 0.25% and 0.5% ointment 3-5 times per day at first and 1-2 times per day subsequently. Patients who also had bacterial conjunctivitis were given topical drops of a 10% sulfapyridazine solution and corticosteroids in addition to florenal. Significant improvement was observed in 2-3 days, and complete clinical recovery took place in 6-15 days, with an average of 11 days. Side effects were observed in only one patient in the form of a colic in the eye. Otherwise, the drug was well tolerated and caused no irritation. It is concluded that 1/2

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MAYCHUK, Yu. F. and ABAZOV, T. H., Meditsinskiy Zhurnal Uzbekistana, No 10, 1971, pp 61-62

florenal ointment is an effective drug for the treatment of adenoviral eye diseases.

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- 59 -

UDC 617.713-002-02:616.523/-085

MAYCHUK, YIL F., Doctor of Medical Sciences, PCZDNYAKOV, V. T., Candidate of Medical Sciences and ABRAMISHVILI, R. I., Scientific Associate Virus Clinical Division, Moscow Institute of Eye Diseases imeni Helmholtz, Moscow

*Leukocyte Interferon and Its Combination With Methacil in the Therapy of Herpetic Keratites"

Odessa, Oftal'mologicheskiy Zhurnal, No 3, 1971, pp 193-195

Abstract: It had been established that human leukocytic interferon inhibits the propagation of herpes simplex virus in tissue cultures and that it is effective in the therapy of experimental herpetic keratitis of rabbits. Clinical observations were carried out on 56 patients with herpetic keratitis who were treated by the application of leukocytic interferon in the form of eye drops. Interferon with an activity of 150-200 units/ml was found to have a therapeutic effect. In cases of superficial herpetic keratitis, epithelization of the cornea on its application usually set in within 4-15 days. In cases of deeper involvement of the cornea and participation of the usual tract, epithelization set in later and additional treatment was required. Interferon with activity less than 100 units/ml had a weaker offect, while that with an activity of 500-700 units/ml had approximately the same effect 1/2

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USSR

MAYCHUK, YU. F., et al., Oftal'mologicheskiy Zhurnal, No 3, 1971, pp 193-195

as the preparation with 150-200 units/ml. Units of activity were determined on the basis of effect on a tissue culture infected with herpes virus. Interferon in combination with methacil had a greater therapeutic effect than interferon alone; use of the interferon-methacil mixture made it possible to reduce the number of applications from 5-6 to 3 per day. In a decision of 24 Apr 70, the Pharmacological Committee of the Ministry of Health USSR approved the use of leukocytic interferon for the treatment of virus diseases of the eyes.

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UDC 536.24:539.196.6

PETUKHOV, B. S., MAYDANIK, V. N. MOVIKOV, G. A.

"Experimental Study of Heat Transfer with Turbulent Flow of a Nonequilibrium Dissociating Gas in a Circular Pipe"

Moscow, Teplofizika Vysokikh Temperatur, Vol. 9, No. 2, Mar-Apr 71, p. 316-319.

Abstract: An experimental study is performed of heat transfer with turbulent flow of a nonequilibrium dissociating gas (mitrogen dioxide) in a circular pipe. The experimental data shows significant dependence of heat transfer on the rate of the dissociation reaction. A dependence is suggested for calculation of heat transfer considering the finite rate of the reaction.

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UDC 536.241532.542.41535.338

PETUKHOV, B. S., MAYDANIK, V. N., and NOVIKOV, G. A.

"Experimental Investigation of Heat Transfer with Turbulent Flow through Round Tube of Gas Under Dissociation Equilibrium"

Hoscow, Teplofizika Vysokikh Temperatur, Akademiya Nauk SSSR, Vol 9, No 1, Jan-Feb 71, pp 116-123

Abstract: Experimental investigation of heat transfer with turbulent flow of nitrogen tetroxide was conducted. The gas was flowing through a round tube which was heated by electric current, the heat was transferred from the walls of the tube to the gas. The temperature of the tube wall was measured by thermocouples welded to the outside of the tube. The gas temperature was measured by thermocouples at the inlet and outlet of the tube. The relation between the gas temperature and the length of the tube was obtained by varying the length of the tube being heated.

The experiments were conducted with the range of pressures of 3 to 45 atmospheres, gas temperatures from 50 to 600°C, wall temperatures from 70 to 700°C, Reynolds number from 25,000 to 250,000.

The dissociation of nitrogen tetroxide occurs in two stages. At the

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USSR

PETUKHOV, B. S., et al., Teplofizika Vysokikh Temperatur, Akademiya Nauk SSSR, Vol 9, No 1, Jan-Feb 71, pp 116-123

temperature from 20 to 180°C the nitrogen tetroxide dissociates into nitrogen dioxide, the proportion of the latter increases with the temperature. The change of such proportion occurs practically instantaneously with the change of temperature. Equilibrium condition is assumed to exist at teach point at this stage. At the temperatures from 150 to 900°C the natrogen dioxide dissociates into nitrogen monoxide and oxygen, this reaction occurs slowly and it is assumed that the chemical composition of the gas in this stage does not change along the length of the tube.

Graphs of gas temperature, wall temperature and heat transfer coefficient along the length of the tube are given for both stages of dissociation

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AUTHOR--LITVINENKO, V.YA., MAYOANNIK, A.K.

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