

Reaction Kinetics of Peroxides in Solutions. II. Reaction Kinetics of
Benzoyl Peroxide With Diphenylamine

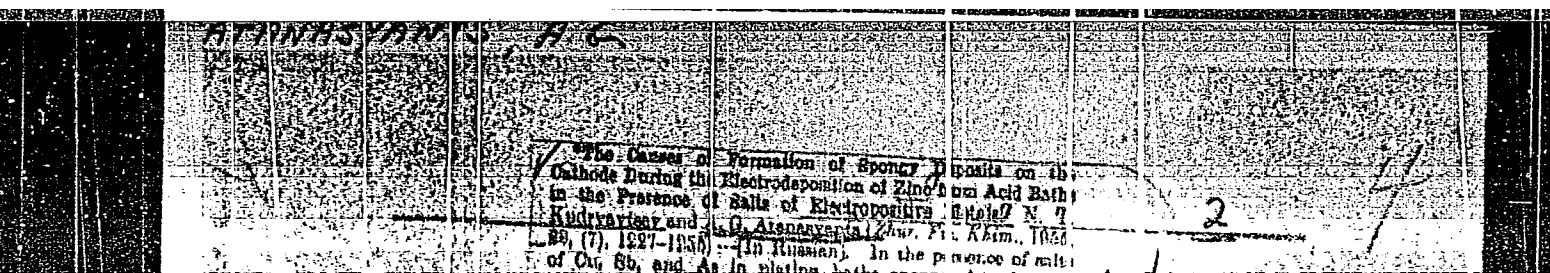
SOV/76-33-1-7/45

- 1) the reaction between (I) and (II) is a chain reaction proceeding via free diphenyl nitrogen and benzoate radicals;
- 2) the beginning of the chain formation is based on an elementary reaction between the molecules of (I) and (II);
- 3) the reaction becomes more complicated as the formation velocity of the benzoate radicals increases. It is stated that, in contrast to the strongly alkaline aliphatic secondary amines, the weakly alkaline (II) splits the (I) homolytically at the peroxide bindings. There are 7 figures, 4 tables, and 7 references, 5 of which are Soviet.

ASSOCIATION: Yerevanskiy gosudarstvennyy universitet (Yerevan State University).

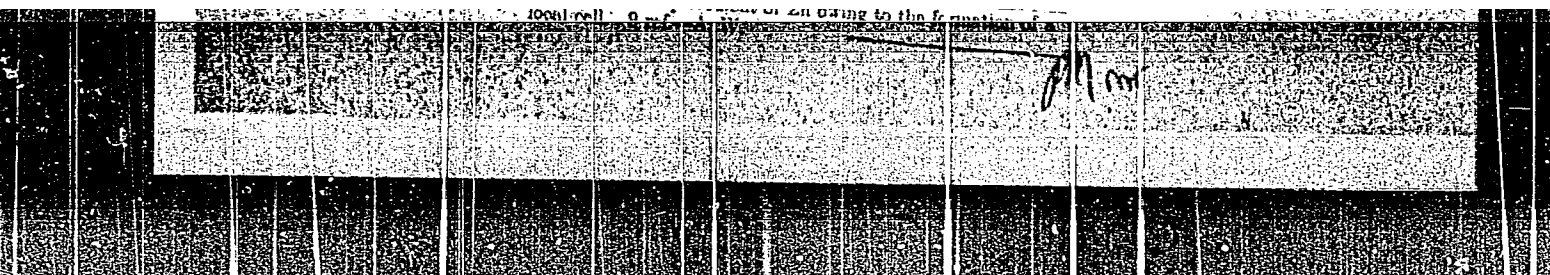
SUBMITTED: May 28, 1957

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"APPROVED FOR RELEASE: 06/05/2000

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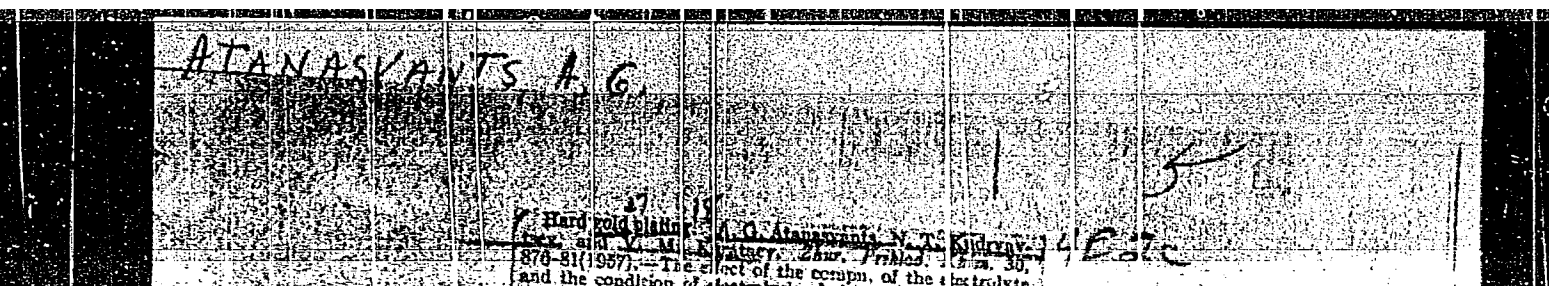
APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510010-1"

ATANASYANTS, A.G.; KARATAYEV, V.M.; KUDRYAVTSEV, N.T., doktor khimicheskikh nauk.

Electropolishing of magnetic soft-alloy tapes using alternating current. Vest. mash. 36 no.8:67-68 '56. (MLRA 9:10)

(Polishing, Electrolytic)

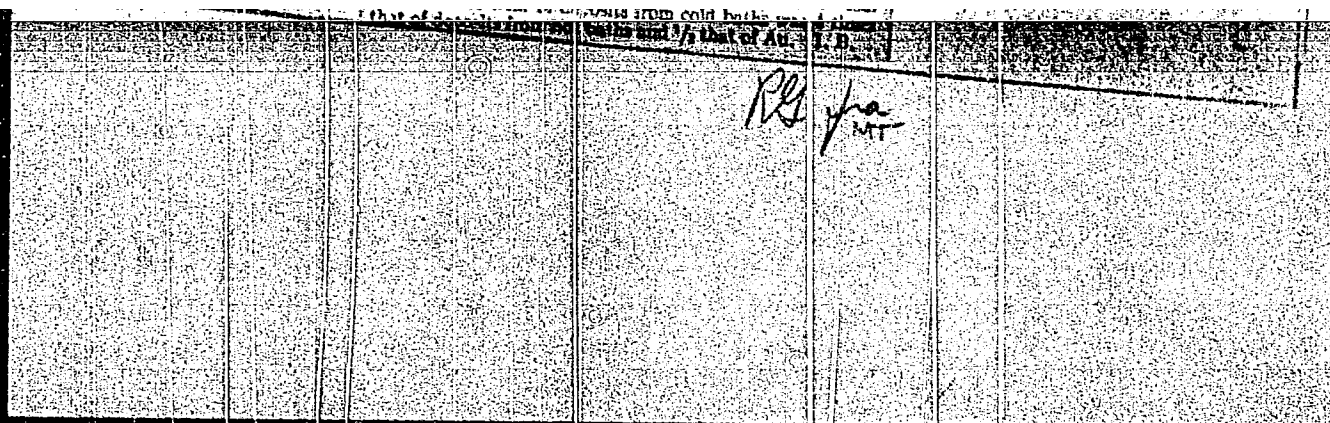


"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510010-1

that of deuterium from cold bodies

cells and 1/2 that of Au. D.



APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510010-1"

5(4)

AUTHORS:

Gorbachev, S. V., Atanasyants, A. G.

SOV/153-58-3-21/30

TITLE:

Effect of the Concentration of the Electrolyte on the Cathodic and Anodic Polarization of Zinc and Cadmium (Vliyaniye kontsentratsii elektrolita na katodnuyu i anodnuyu polyarizatsiyu tsinka i kadmiya)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp 121 - 129 (USSR)

ABSTRACT:

The electrode processes differ from ordinary heterogeneous chemical processes in the fact that their activation is not only caused by molecular collisions due to thermal motion but also by means of the energy of the electric field. In this respect the concepts taken from the usual chemical kinetics proved to be insufficient as they do not take into account the specific character of electrochemical reactions. A survey of publications (by far not complete, as the authors believe) is given (Refs 1-16). The velocity of the anodic dissolution of a metal is not allowed to depend on the ion concentration of this metal in

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Effect of the Concentration of the Electrolyte on the
Cathodic and Anodic Polarization of Zinc and Cadmium

SOV/153-58-3-21/30

the solution, and in no way can depend on the nature of the anion, starting from kinetic rules (Refs 8,9). Nevertheless, there exists such a dependence (Refs 10-12). It may be seen from the survey of literature mentioned that no definite character of the dependence can be found in the experimental results although the velocity of the cathodic and anodic processes depends on the concentration of the substances. In spite of the great importance of this problem there are no systematic investigations mentioned in publications dealing with this problem. The authors investigated the dependence of the current density on the concentration at certain polarization potentials for the electrodeposition and the electrolytic solution of zinc cadmium in the solutions of their salts. Their sulfates within a wide concentration range from $2 \cdot 10^{-3} \text{M}$ to 2M were used for this purpose. The polarization was investigated by means of the compensation method and Vagramyan's method. It was

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Effect of the Concentration of the Electrolyte on the
Cathodic and Anodic Polarization of Zinc and Cadmium

SOV/153-58-3-21/30

found that the character of the rules (independent of the method of investigation) is maintained for zinc as well as for cadmium. The velocity of the cathodic and anodic processes for zinc and cadmium increases monotonously with the increasing concentration of the electrolyte at a constant polarization potential between 20 and 80°, and is proportional to the concentration with one fractional exponent. The experiments on the electrolysis where convection currents near the electrodes were suppressed, showed that the character of the dependence of the velocity of the electrode processes on the concentration remains the same as under the conditions of a natural convection. Professor A.T.Vagramyan made the rapid measurements in his laboratory possible. A.P.Popkov took part in the measurements and their evaluation. There are 10 figures, 1 table and 17 references, 9 of which are Soviet.

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Effect of the Concentration of the Electrolyte on the
Cathodic and Anodic Polarization of Zinc and Cadmium

SOV/153-58-3-21/30

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskoy institut imeni
D.I.Mendeleyeva (Moscow Institute of Chemical Technology
imeni D.I.Mendeleyev); Kafedra fizicheskoy khimii (Chair
of Physical Chemistry)

SUBMITTED: October 4, 1957

Card 4/4

AUTHORS: Gorbachev, S. V., Atanasyants, A. G. SOV/156-58-3-7/52

TITLE: The Effect of the Concentration on the Velocity of the Electrolytic Precipitation and Dissolution of Zinc and Cadmium in Sulfate Solutions of These Metals (Vliyaniye kontsentratsii na skorost' elektroosazhdeniya i elektrorastvoreniya tsinka i kadmiya v rastvorakh sul'fatov etikh metallov)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp. 430 - 434 (USSR)

ABSTRACT: The cathodic and anodic polarization of zinc and cadmium were investigated over a wide range of concentrations of the corresponding sulfates by means of the compensation method and the method suggested by Vagramyan. On this occasion it was found that the cathodic and anodic polarizations decrease with increasing concentration. Furthermore, the authors investigated the velocity of the separation and dissolution of zinc and cadmium in relation to the concentration of the single "neutral" salts (the sulfates) of the corresponding metals. The investigations were carried out at a constant polarization potential within the temperature interval of 20° - 80°; they showed that the velocity of the

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The Effect of the Concentration on the Velocity of the Electrolytic Precipitation and Dissolution of Zinc and Cadmium in Sulfate Solutions of These Metals SOV, 156-58-3-7/52

two mentioned processes increases monotonously with the increasing concentration of the solution, viz., proportional to the concentration of the dissolved salt. The experimental results obtained are given in diagrams. They show: the influence of the concentration of ZnSO_4 (Diagram 1) and CdSO_4 (Diagram 2) on the cathodic and anodic polarizations of zinc and cadmium at 20° ; the dependence of the velocity of the dissolution and separation of zinc (Diagram 3) and cadmium (Diagram 4) on the concentration of ZnSO_4 and CdSO_4 at polarization potentials of 40 mV, 120 mV, 200 mV and 360 mV. $I = k \cdot C^n$ ($\Delta\varphi = \text{const}$, $T = \text{const}$) holds for the reaction velocity, where I denotes the reaction velocity (current density), C the concentration of the (reacting) initial substances, $\Delta\varphi$ the polarization potential, T the temperature, k the (velocity) constant (dependent on temperature), n the order of reaction. The n -values for zinc and cadmium sulfate solutions are given in a table. There are 4 figures, 1 table, and 20 references, 12 of which are Soviet.

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The Effect of the Concentration on the Velocity of SOV/156-58-3-7/52
the Electrolytic Precipitation and Dissolution of Zinc and Cadmium in
Sulfate Solutions of These Metals

ASSOCIATION:

Kafedra Fizicheskoy khimii Moskovskogo khimiko-
tekhnologicheskogo instituta im.D.I.Mendeleyeva (Chair of
Physical Chemistry of the Moscow Chemical and Technological
Institute im.D.I.Mendeleyev)

SUBMITTED: December 14, 1957

Card 3/3

ATANASYANTS, A. G., Candidate of Chem Sci (diss) -- "The effect of the concentration of salts of zinc and cadmium on the rate of electroprecipitation and electrosolution of these metals". Moscow, 1959. 12 pp (Min Higher Educ USSR, Moscow Order of Lenin Chem-Tech Inst im D. I. Mendeleev), 150 copies (KL, No 22, 1959, 109)

GORBACHEV, S. V., ATANASYANTS, A. G.

Activation energy in the kinetics of electrode processes in the
electrolysis of $ZnSO_4$ and $CdSO_4$. Trudy MKHTI no.26:57-68 '59.

(MIRA 13:9)

(Zinc sulfate) (Cadmium sulfate) (Electrolysis)

ATANASYANTS, A.G.; GORBACHEV, S. V.

Effect of the concentration of complex zinc salts on the kinetics
of electrode processes taking place during the deposition and
solution of zinc. Trudy MKHTI no.26:69-76 '59. (MIRA 13:9)
(Zinc salts) (Electrodes, Zinc)

ATANASYANTS, A.G.

Thermodynamic parameters of the oxidation of potassium ferrocyanide to potassium ferricyanide in a reversible galvanic cell. Zhur. fiz. khim. 37 no.12:2654-2656 D '63. (MIRA 17:1)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

L 2620-66 EPA(s)-2/ENT(m)/EWP(1)/EWP(v)/T/EWP(t)/IWP(k)/EWP(b)/EWA(c) IJP(c)
 ID/HM
 ACCESSION NR: AP5011368

UR/0365/65/001/002/0238/0239
 620.197.6
 621.357.7

57
 54
 B

AUTHOR: Atanasyants, A. G.; Izmaylov, A. V.; Balashov, A. A.; Savel'yeva, V. N.
 44.53 44.53 44.53 44.53

TITLE: Deposition of metallic platings on welded products of titanium and its al-
 loys
 16 16 44.55 27

SOURCE: Zashchita metallov, v. 1, no. 2, 1965, 238-239

TOPIC TAGS: titanium alloy, titanium, metal deposition, nickel plating, copper
 plating, electroplating

ABSTRACT: A technique recommended for preparation of high quality copper platings
 on welded articles of titanium or its alloys is described in detail. It consists
 of the following steps: 1. mechanical removal of the sinter (only for gas welded
 samples); 2. degreasing with organic solvents; 3. etching at 70°C for up to 30 min.
 in a solution containing (vol. %): conc. HF-5, conc. H₂SO₄-35, and H₂O-60; 4. cop-
 per plating at 20°C for 2 min at a current density of 1-2 A/100 cm² in a solution
 containing (g/l): CuSO₄·5H₂O-250, conc. H₂SO₄-50, and conc. HF-50, up to complete

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L 2620-66

ACCESSION NR: AP5011368

surface coverage with copper; 5. washing in cold water; 6. usual copper plating for 15 min in a copper sulfate solution; 7. washing in cold water; 8. drying; 9. holding for 1 hour at 250-300°C; 10. passivation in a usual solution; and 11. plating with any desired metal using either an electrochemical or chemical plating technique (e. g., chemical nickel plating).

ASSOCIATION: Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti (Moscow Technological Institute of the Meat and Dairy Industry)

SUBMITTED: 03Oct64

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 004

OTHER: 000

Card 2/2 DP

ATANASZOV, Gyorgy, dr.

Volvulus of the cecum, causing ileus. *Magy. sebeszet* 8 no.6:
382-384 Dec 55.

1. A Szombathelyi Kórház II. sz. Sebészeti Osztályának kósl.

Főorvos: Tiborcs, Sándor dr.

(INTESTINAL OBSTRUCTION, etiol. & pathogen.

volvulus of cecum with ileus, diag. & surg. (Hun))

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510010-1"

Country : Yugoslavia T
Category : Human and Animal Physiology, Thermoregulation

Abs. Jour. : Ref Zhur - Biologiya, No. 2, 1959, No. 7869

Author : Atanatskevich, B.; Est. M.

Institut. : Skopje Medical Faculty

Title : The Mechanism of Bradycardia in Hypothermia.

Orig Pub. : Godishen zb. Med. fak. Skopje, 1956, 3, 55--66

Abstract : no abstract

KAZANSKIY, V.L.; ATANAZEYICH, Ye.I.; VOLKOVA, S.A.; BOCHAROV, I.V.;
UZUKOYAN, P.N.; ZHADANOVSKIY, N.V.; FINELONOV, V.P.

Use of the hexane fraction from the central gas-fractionation
plant (TSGFU) as raw material in the catalytic reforming systems.
Khim. i tekhn. topl. i masel 10 no.10:6-7 O '64.

(MIRA 18:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut neftyanoy
promyshlennosti, Kuybyshev, i Novokuybyshevskiy neftepererabaty-
vayushchiy zavod.

ATANAXOV, I.

"Reconditioning of Skoda cylinder blocks."

p. 23 (Ratsionalizatsiia, Vol. 7, no. 11, Oct. 1957, Sofia, Bulgaria.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958.

BUKAT, M.; KAMYSHKIN, L.; ATANAZEVICH, V.; YAKIMOVICH, V.

Putting suggestions of efficiency promoters into practice at grain receiving stations of Kazakhstan. Muk.-elev. prem. 24 no.7:26-30
Jl '58. (MIRA 11:10)

1.Kustanayskoye oblastnoye upravleniye khleboproductov (for all except Yakimovich). 2.Ministerstvo khleboproductov Kazakhskoy SSR (for Yakimovich).

(Kazakhstan--Grain-handling machinery)

ATANAZEVIKH, V., insh.

Increasing the productivity of grain dryers. Muk.-elev. prom.
25 no.11:13-14 N 159, (MIRA 13:3)

1. Kustanayskoye upravleniye khleboproduktov.
(Grain--Drying)

KOMYSHNIK, L., inzh.; ROYBUL, N., inzh.; ATANAZEVIKH, V., inzh.

Mechanized demountable granary. Muk.-elev.proj. 26 no.1;23-24
Ja '60. (MIRA 13:6)
(Granaries) (Buildings, Prefabricated)

ATANAZEVIKH, V., inzh.

ZSPZh-8 grain dryers in continuous grain-receiving and processing lines
in Kustanay Province. Muk.-elev. prom. 26 no.9:4 S '60.

(MIRA 13:9)

1. Kustanayskoye upravleniye khleboproduktov.
(Kustanay Province--Grain --Drying)

KOMYSHNIK, L., inzh.; ATANAZEVICH, V., inzh.

Grain dryers heated by liquid fuels. Mak.-elev. prom. 26
no. 12:14-16 D '60. (MIRA 13:12)

1. Kustanayskoye upravleniye khleboproduktov.
(Grain--Drying)

PLATONOV, P., doktor tekhn.nauk; ATANAZEVICH, V., aspirant

Investigating the operating efficiency of grain dryers of pulsating action. Muk.-elev. prom. 29 no.6:14-15 Je '63. (MIRA 16:7)

1. Odesskiy tekhnologicheskii institut im. M.V.Lomonosova.
(Grain--Drying)

ATANAZEVIICH, Yekaterina Ivanovna; YAKUSHEV, Aleksey Petrovich; DYKIN, Vasilii Grigor'yevich; PUTOKHIN, N.I., prof., doktor khimicheskikh nauk, nauchnyy red.; PETROPOL'SKAYA, N.Ye., red.; YASHEN'KINA, Ye.A., tekhn.red.

[What is produced from petroleum and gas] Chto poluchaiut iz nefi i gaza. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1958. 28 p.
(MIRA 12:9)

(Petroleum chemicals)

(Gas, Natural)

YASTREBOV, G.I.; ATANAZKIVICH, Ye.I.; IYEVLEV, V.K.

Starting and operating a unit for distilling fatty acids.
Nefteper. i neftekhim. no.6s27-31 '63 (MIRA 17:7)

1. Novokuybyshevskiy neftepererabatyvayushchiy zavod i Kuybyshevskiy nauchno-issledovatel'skiy institut neftyanoy promyshlennosti.

ATANELISHVILI, A. S.

ATANELISHVILI, A. S. --"On the Historico-genetic Classification of the Soil in USSR," Min Agriculture USSR, Georgian Order of Labor Red Banner Agricultural Institute, Publishing Department of the Georgian Agricultural Institute, Tbilisi, 1956. (Dissertation for the Degree of Doctor of Agricultural Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

ATANELISHVILI, E.V.

Functional state of the central nervous system in patients with stomach and duodenum ulcers and its changes resulting from treatment in the Likani Sanatorium. Soob. AN Gruz. SSR 29 no.1:95-100 J1 '62. (MIRA 18:5)

1. Sanatoriya "Likani", Borzhomi. Submitted May 20, 1961.

L 41231-65

ACCESSION NR: AP5005522

S/0251/65/0:7/002/0453/0458

AUTHOR: Atanulishvili, E. V.

TITLE: Changes in the functional condition of the CNS in patients with resected stomachs during various physiotherapeutical procedures

SOURCE: AN GruSSR. Soobshcheniya, v. 37, no. 2, 1967, 453-454

TOPIC TAGS: UHF therapy, diathermy, biological effect, CNS, UHF, stomach ulcer, duodenal ulcer

ABSTRACT: The author studied the effects of diathermy, UHF [irradiation parameters not specified] and pine baths on patients with stomach and duodenal ulcers. After detailed clinical, laboratory, and x-ray examinations, the functional state of the central nervous system was studied as a function of motor reactions to sound and light before and after therapy. The duration of UHF treatment was 20 min, diathermy, 20 min, and pine baths, 15 min. In all, 71 patients with resected stomachs were studied. Of that number, 41 received UHF therapy, and the remaining 30 received diathermy and pine baths on alternating days. The majority evidenced a prolonged latent period in the motor reaction to light. Of the 41 patients receiving UHF therapy in the stomach and liver area, the first 10 min of exposure to UHF re-

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L 41231-65

ACCESSION NR: AP5005622

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sulted in a prolonged motor reaction in 14 people, a shortened reaction in 24, and no change in 3. One hr after UHF therapy, motor reactions had lengthened in 11 patients, shortened in 26, and remained unchanged in 4. After 10 min of diathermy therapy, motor reactions were lengthened in 13 of 30 patients, shortened in 14, and unchanged in 3. An hour after diathermy, motor reactions had lengthened in 10 patients, shortened in 17, and remained unchanged in 3. The motor reactions of these same patients after a 15-min pine bath (36C) were lengthened in 12, shortened in 15, and unchanged in 3. An examination of all 71 patients, after therapy had been completed, revealed that while the above effects were somewhat weaker compared to the beginning of therapy, they were generally the same throughout. The data indicates that UHF, diathermy, and pine-bath therapy bring about shifts in the functional state of the CNS which undoubtedly play an important role in the positive effects of the therapy. Orig. art. has: 1 table. [CD]

ASSOCIATION: Sanatoriya "Likani", Borzhomi ("Likani" Sanatorium)

SUBMITTED: 025um62

KVC: 00

SUB CODE: LS

NO REF SOV: 006

OTHER: 000

ATD PREIS: 3201

See
Card 2/2

SULTANOV, Azal' Dzhafarovich; PUSTOVALOV, L.V., otv. red.; pri uchastii:
~~ATANESYAN, G.Z.~~, sotrudnik; KORNIOVA, A.S., sotrudnik; KERSKAYA, G.V.,
sotrudnik; RAVINA, B.M., sotrudnik; MENZELEYEVA, S.A., sotrudnik;
PAPKOVA, M.K., sotrudnik; RYLINA, Yu.V., tekhn. red.

[Producing formation of the Apsheron Peninsula] Sovet po izucheniiu
proizvoditel'nykh sil. Azerbaidzhanskaya neftyanaya ekspeditsiya.
Litologiya produktivnoi tolshchi Apsheronskogo poluostrova. Moskva,
1958. 140 p. (MIRA 11:12)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil.
Azerbaidzhanskaya neftyanaya ekspeditsiya. 2. Chlen-korrespondent
AN SSSR (for Pustovalov). 3. Litologicheskaya laboratoriya Insti-
tuta geologii AN Azerbaydzhanskoy SSR (for Atanesyan, Kornilova,
Kerskaya, Ravina, Menzeleyeva, Papkova)
(Apsheron Peninsula--Petrology)

SHOYKHET, P.A.; SHAL'MIYEV, Sh.Kh.; ATANESYAN, G.Z.

Studying the saline composition of the liquid phase of bottom
sediments. Trudy AzNII DN no.10:212-219 '60. (MIRA 14:4)
(Deep-sea deposits)

ATANESYAN, K.

Improving the form of economic work. Fin.SSSR 21 no.5:61-66
M_r '60. (MIRA 13:7)
(Industrial management)
(Finance)

Hosesyan, Z. G. and ATANESIAN, S. S.

Atanesyan, S. S. "Contrast mammography in certain types of mammary gland diseases," (Report), Trudy III Zakavkazsk. s"yezda khirurgov, Yerevan, 1948 (on cover: 1949), p. 113-122

SO: U-5240, 17 Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

ATANESYAN, S. S.

Atanesyan, S. S. "Cancer and precancer tumors of the mammary gland based on the findings of the Institute of Roentgenology and Oncology," (Report), Trudy III Zakavkazsk. s"yezda khirurgov, Yerevan, 1948 (on cover: 1949), p. 155-159

SO: U-5240, 17 Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

ATANDSEYAN, S. S.

30558

Anger, S. S.
Rak nizhnyy i vyakhnyy guby po matyerialam khnurgichyeskoy kliniki
yohryevanskogo myeditsinskogo instituta. Trudy Yohryevansk. MyeD.
IN-TA, VIP. 6, 1949, s. 102-06.

German Medical Institute
SO: LETOPIS' NO. 34

ATANESYAN, YE. N.

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61492

Author: Atanesyan, Ye. N., Marmaryan, G. A.

Institution: None

Title: Preparative Proof of the Formation of Diphenylnitrosamine in the Reaction Medium Benzoyl Peroxide-Diphenylamine-Nitrogen Oxide

Original

Periodical: Nauch. tr. Yerevansk. un-ta, 1956, 53, 105-110

Abstract: To prove the formation of diphenylnitrosamine (I) according to the reaction $(C_6H_5)_2N + NO \rightarrow (C_6H_5)_2NNO$ on absorption of NO by a solution of $(C_6H_5COO)_2$ (II) and $(C_6H_5)_2NH$ (III) (Referat Zhur - Khimiya, 1955, 251) I was synthesized from III and $HNO_2 (NaNO_2 + HCl)$. On completion of the absorption of NO by a mixture of II and III, the solvent (acetone, benzene or other) is driven off in a current of N_2 and I is isolated. Both samples of I have identical properties (color, formation with solution of $BiCl_3$ in acetone of black crystals which give a blue coloration with concentrated HCl and

Card 1/2

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61492

Abstract: a pink coloration in boiling water). Starting materials and possible intermediate products of the reaction do not give blue coloration with concentrated HCl.

Card 2/2

Atanesyan, Ye. N.

USSR/Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.
Catalysis, 8-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 423

Author: Atanesyan, Ye., and Sarkisyan, A.

Institution: Yerevan University

Title: Investigation of the Electrical Conductivity of the System Diethyl
Amine-Benzonic Acid in Organic Solvents

Original

Periodical: Nauch. tr. Erevansk. un-ta, 1956, Vol 53, 111-126 (Armenian summary)

Abstract: In order to clarify the effect of various solvents on the reaction between benzoyl peroxide with diethyl amine (O. A. Chaltykyan and co-workers, Dokl. AN Arm. SSR, 1952, Vol 15, No 1 and No 2), the neutralization of diethyl amine by benzoic acid was investigated by the conductometric method at 20° in acetone solution as well as in a mixture of acetone, ether, and benzene (ether:benzene = 1:1). The neutralization reaction is accompanied by partial combination of the diethyl amine with the solvent (acetone); hence the titration curves are non-reversible.

Card 1/1

ATANILASHVILI, N. I.

USSR/Medicine - Modification of Micro-organisms; Dysentery Nov 53

"The Effect of the Intestinal Microflora of Dysentery Patients on the Biological Properties of Dysentery Bacilli," I. T. Karayeva, N. I. Atanilashvili, Tbilissi Inst of Microbiol, Epidemiol, and Bacteriophage, Min Health USSR

Zhur Mikro, Epid, i Immun, No 11, pp 31-33

Dysentery patients were found to eliminate bacilli similar to those of the Sonne type together with typical Flexner bacilli. When dysentery strains

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of the W and Z types were cultivated in Asheshov tubes together with B. coli or B. paracoli NIGZ, variants resembling the Sonne type were obtained. These variants were agglutinated by sera of the Z and W types. After 1-5 mos of storage in the lab, they were no longer agglutinated by type-specific Z and W sera, but became identical with Sonne bacilli.

271T39

CHARYYEV, O.; ATANIYAZOVA, K.S.

Rare case of invagination of the vermiform process and of part of the wall of the cecum into the ascending colon. Zhurav. Turk. 4 no.5:42 S-O '60. (MIRA 13:12)

1. Iz Maryyskoy oblasti bol'nitsy (glavnyy vrach, Kh.Sh. Dahanmamedov).
(INTESTINES—INTUSSUCEPTION) (CECUM)
(APPENDIX (ANATOMY))

CHARYYEV, O.; ATANIYAZOVA, K.S.

Case of constriction of the appendix, the loop of the small intestine and the omentum in femoral hernia. Zdrav. Turk. 5 no.6:25-26 N-D '61.

(MIRA 15:2)

1. Iz Maryyskoy oblastnoy bol'nitsy (glavnyy vrach -- Kh.Sh. Dzhannamedov).

(HERNIA)

(INTESTINES--DISEASES)

(OMENTUM--DISEASES)

ATANOCKOVIC, D. Dr.; LEBEDA, D. Dr.

The problem of analgetic activity of vitamin K. Lijec.vjes. 77
no.3-4:190-198 Mar-Apr '55.

1. Iz Instituta za farmakologiju Medicinskog fakulteta u Skoplju.
(VITAMIN K, anesthesia & analgesia
exper.(Ser))
(ANALGESICS,
vitamin K, exper.(Ser))

ATANOSOV, Atanas, d-r st.asistent pri propedevt.khirurg.klinika, DIMITROV,
Libknekt; ot instituta po patologichna fiziologiya.

Effect of novocaine lumbar block in urinary excretion of 17-keto-steroid; preliminary communication. Izv.med.inst., Sofia 11-12: 255-264 1955.

1. Propedevtichna khirurgichna klinika (dir.:prof. G.Kapitanov) i Institut po patologichna fiziologiya (dir.:doks.S. Pisarev) pri Visshia meditsinski institut V. Chervenkov-Sofia.

(PROCAINE, effects

on urinary 17-ketosteroids, lumbar block)

(URINE,

17-ketosteroids, eff. of procaine lumbar block)

(STEROIDS, in urine,

17-keto.eff. of procaine lumbar block)

(ANESTHESIA, REGIONAL,

lumbar procaine block, eff. on urinary 17-ketosteroids)

RASHEV, M. prof; ATANOSOVA, D. doktor.

Considerations on juvenile chlorosis with report of a case. Izv.
med. inst., Sofia 11-12:813-817 1955.

1. Katedra po fakultetska vutreshna klinika (sav.: prof. M. Rashev)
pri visshia meditsinski institut I.P. Pavlov-Plovdiv,
(ANEMIA,
chlorosis, case report)

KHAL'FIN, F.N.; ATANOV, N.A.

Increasing the heat-exchange capacity of the cooling coils of
the return water-supply system of petroleum refineries. Izv.
vys. ucheb. zav.; neft' i gaz 8 no.2:117-119 '65.

(MIRA 18:3)

1. Kuybyshevskiy inzhenerno-stroitel'nyy institut.

ATANOV, V.V.

Analysis of the immediate results of extrapleural pneumolysis.
Pat., klin. i terap. tub. no. 8:331-332 '58. (MIRA 13:7)

1. Iz khirurgicheskogo otdeleniya (rukovoditel' ... kand. med. nauk
P. Ye. Kul'chinskiy) Odesskogo nauchno-issledovatel'skogo insti-
tuta tuberkuleza.

(LUNGS--COLLAPSE)

ALEKSEYEV, K.A.; ATANOV, Yu.A.; BUROVA, L.L.

New method for artificial aging of manganin manometers. Trudy Inst.
Kom.stand.mer i izm.prib. no.75:44-46 '64.

(MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

ATANOV, Yu.A.; BORZUNOV, V.A.; RAZUMIKHIN, V.N.

Measuring the compressibility of liquids by the method of the
bellows-sealed piezometer at pressures up to 10,000 kgf/cm².

Trudy Inst.Kom.stand.mer i izm.prib. no.75:143-150 '64.

(MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy.

L 10779-67 EWT(1)/EWT(m)/ENP(j)
ACC NR: AP7003500

SOURCE CODE: UR/0076/66/040/006/1216/1219

ATANOV, Yu. A., All-Union Institute of Physico-Technical and Radio
Engineering Measurements, Moscow (Vsesoyuznyy institut fiziko-tekhnicheskikh i
radiotekhnicheskikh izmereniy)

"Approximate Equation of State for Liquids at High Pressures" 38

Moscow, Zhurnal Fizicheskoy Khimii, Vol 40, No. 6, Jun 66, pp 1216-1219

ABSTRACT: Treatment of experimental data on 16 liquids indicated that the
constant B in P. G. Tait's empirical equation for the isothermal compressi-
bility of liquids /cf. R. E. Gibson, J. Amer. Chem. Soc., 56, 4, 1934;
R. Grinell, J. Chem. Phys., 34, 2174, 1961/ characterizes the inner
molecular pressure of the substance and is an exponential function of the
temperature. It was established that the relation $a = B \beta^0$ exists
between the constants A and B of Tait's equation, where $\beta^0 = -\frac{1}{V^0} \left(\frac{dV}{dP} \right)_0$.

An approximate equation of state of liquids at high pressures is proposed.
The constants of this equation for 11 liquids (CS_2 , MeOH, PrOH, benzene,
acetone, PhBr, ThCl, n-heptane, EtI, di-Et ether)² have been determined and
are listed. Orig. art. has: 11 formulas and 3 tables. [JPRS: 38,967]

TOPIC TAGS: fluid mechanics, function

SUB CODE: 20 / SUBM DATE: 16Jan65 / ORIG REF: 003 / OTH REF: 008

Card 1/1

UDC: 532.12

ATANOV, Yu.P.

Significance of allergy in the pathogenesis of appendicitis;
experimental study. Khirurgiia 39 no.9:104-107 S⁶³
(MIRA 17:3)

1. Iz kafedry obshchey khirurgii (zav. - prof. V.A. Ivanov)
II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni
Pirogova.

ATANOV, Yu.P.

Effect of preliminary introduction of penicillin on the course of experimental appendicitis. Report No. 2. Khirurgiya 40 no.2:78-80 F '64. (MIRA 17:7)

1. Kafedra obshchey khirurgii (zav. - prof. V.A. Ivanov)
lechebnogo fakul'teta II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova.

IVANOV, V.A., prof.; ATANOV, Yu.P.; GELICH, V.A.

Complications following radical surgery in cancer of the stomach and esophagus. Sov. med. 28 no.3:40-44. Mar '65.

(MIRA 18:10)

1. Kafedra obshchey khirurgii (zav. - prof. V.A.Ivanov) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

USSR/Human and Animal Physiology. Nerve and Muscle Physiology. T-9

Abs Jour: Ref Zhur-Diol., No 12, 1958, 55958.

Author : ~~Atanova, Ye M.~~

Inst : Daghestan Institute of Medicine.

Title : Spontane Contractions of the Uterus in Repeated
Experiments on Female Rabbits.

Orig Pub: Sb. nauchn. tr. Dagest. med. in-t., 1956, 6, 47-48.

Abstract: No abstract.

Card : 1/1

ATANSIU, C

TECHNOLOGY

PERIODICAL: REVISTA TRANSPORTORILOR, Vol. 5, no. 11, Nov. 1958

ATANASIU, C. Soil road foundations. stabilized with cement. p. 508

Monthly List of East European Accessions (EEA)- LC Vol. 8, no. 4
April 1959, Unclass

ATANSOV, E.

On thrombo-elastography and its diagnostic value. Suvr. med. 12 no.9:
113-121 '61.

(BLOOD COAGULATION)

BOZADZHIYEVA, Ye.; ATANSOV, N.

Adrenogenital syndrome. Urologia no.5:58 '61.

(MIRA 14:11)

1. Iz kafedry vnutrenney meditsiny (zav. - prof. A. Fukhlev)
i kafedry khirurgii s urologiyey (zav. - prof. G. Popov)
Sofiyskogo vysshego meditsinskogo instituta.
(HERMAPHRODITISM) (ADRENAL GLANDS---DISEASES)

TSYPKINA, M. N.; ATAPINA, M. N.

Testing of lignosulfonic acids formed during sulfite cooking
in the presence of condensed lignin. Trudy VNIIB no. 47:50-63
'61. (MIRA 16:1)

(Lignosulfonic acids)

ATAPINA, R., master, delegat XIII s"yezda professional'nykh soyuzov
SSSR (Saratov); UGLYANETS, A.

Search for potentials in the working area. Sov. profsoiuzy
19 no. 19:6-8 0 '63. (MIRA 16:11)

1. Predsedatel' zavodskogo komiteta 3-go podshipnikovogo
zavoda, Saratov (for Uglyanets).

ATAROV, M.S.; BERNSHTEYN, A.S.; BUNIN, N.N.; VOL'NOV, I.I.; GINZBURG, V.A;
DANOVSKIY, N.F.; IVLEV, N.I.; KERZHENEVICH, Yu.B.; LETVIL-SEDOV,
M.Z.; MAYZEL', B.N.; ROTENBERG, G.I.; TYAGUNOVA, Z.I., red.;
FLAKSHE, L.Yu.; tekhn. red.

[Concise Italian-Russian polytechnic dictionary] Kratkiy ital'iansko-
russki politekhnicheskii slovar'. Moskva, Glav.red.inostr. nauchno-
tekhn.slovarei Fizmatgiza, 1961. 378 p. (MIRA 14:12)
(Italian language--Dictionaries--Russian)
(Technology--Dictionaries)

ATAROV, T. S.

Atarov, T. S. and Chekes'yan, O. Ye. "The work of the women's dispensaries in Rostov-on-Don in the fight against gonorrhea during 1943-46" (Authors' summary of the paper), Sbornik nauch. trudov (Rost. obl. nauch.-issled. akushersko-ginekol. in-t), Issue 8, 1948, p. 56-60.

So: U-3261, 10 April (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

ATAROV, T. S.

Atarov, T. S. and Bozhko, V. P. "The fight against the spread of syphilis in Rostov-on-Don during 1944-47" (Authors' summary of the paper), Sbornik nauch. trudov (Rost. obl. nauch. -issled. akusherskoginekolog. in-t), Issue 8, 1948, p. 219.

So: U-3261, 10 April 1953 (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

ATAROV, T.S., kandidat meditsinskikh nauk, zapashennyy vrach RSFSR.

Method of liquidation of venereal diseases in the Soviet Union. Vest.
ven.i derm. no.5:3-6 S-O '53.

(MLRA 6:12)

(Venereal diseases)

ATAROV, T.S.

ATAROV, T.S., kand.med.nauk, zaslužennyy vrach RSFSR (Rostov-na-Donu)

First years of the control of venereal diseases in the Soviet Union.
Vest.derm. i ven. 31 no.5:42-46 S-O '57. (MIRA 10:12)

(VENEREAL DISEASES, prev. and control.
in Russia)

ATAROV, Tigran Semenovich, kand.med.nauk, zaslužhennyy vrach RSPSR;
POPOVA, G.F., red.; ROZENTUL, M.A., red.; ZAKHAROVA, A.I.,
tekhn.red.

[Problems of sexual hygiene] Voprosy polovogo vospitaniia.
Moskva, Gos.izd-vo med.lit-ry, 1959. 105 p. (MIRA 12:12)
(HYGIENE, SEXUAL)

ATAROV, T.S. kand.meditsinskikh nauk, zasluzhennyy vrach RSFSR (Rostov-
na-Donu)

Problems in the organization of dermatovenereological care. Sov.
sklav. 19 no⁷:63-65 '60. (MIRA 13:8)
(DERMATOLOGY) (VENEREAL DISEASES)

ATAROV, T.S., kand.med.nauk (Rostov-na-Donu)

Form of stating organizational problems. Concerning a recommendation
for avoiding repeated Wassermann tests in pregnancy. Vest.derm.i ven.
no.8:56-59 '61. (MIRA 15:5)
(PREGNANCY) (SYPHILIS--DIAGNOSIS--WASSERMAN REACTION)

ATAROV, N.S., kand.med.nauk

Eradication of foci of infection is a deciding factor in controlling dermatomycosis; result of work of the Rostov Province Dermatovenereological Clinic. Vest.derm.i ven. 35 no.1:64-66 Ja '61.
(MIRA 14:3)

(ROSTOV PROVINCE--DERMATOMYCOSIS)

ATAROV, T. S., kand. med. nauk, ~~zasluzhennyy~~ vrach RSFSR

Methods and practice of dispensary treatment of skin diseases;
~~the work~~ experience of dermatological institutions in Rostov
Province. Vest. dermat. i ven. 36 no.7:55-57 J1 '62.

(MIRA 15:7)

(SKIN--DISEASES)

(ROSTOV PROVINCE--HOSPITALS--OUTPATIENT SERVICES)

ATAROV, V. T.

PA 243T18

USSR/Medicine - Antibiotics

Jan 53

"The Action of Volatile Phytoncides on Photographic Emulsions," Cand Biol Sci M. B. Razumovich, V. T. Atarov, Brest State Pedagogic and Teachers' Institute A. S. Pushkin

"Priroda" Vol 42, No 1, pp 95, 96

Detection of volatile phytoncides by means of protozoal dough, as suggested by B. P. Tokin, is not always reliable. However, volatile phytoncides exert a noticeable effect on photographic plates and paper, so that this method can be used for establishing the presence of phytoncides. Tests of the method were carried out with onions, garlic, and bird cherry.

243T18

ATAROV, V. T.

USSR/ Biology - Phytocides

Card 1/1

Pub. 86 - 11/39

Authors :

Razumovich, M. B., Cand. Biol. Sc.; and Atarov, V. T.

Title :

Some peculiarities of the action of phytocides on a photographic emulsion

Periodical :

Priroda 44/3, 84 - 85, Mar 1955

Abstract :

An account is given of experimentation with phytocides in the emulsion on photographic plates, using floating phytocides previously adsorbed in milk or water and others derived directly from a garlic pulp. The variation in the effect of the phytocides on the plates was found to depend on the kind of phytocide. Illustrations.

Institution :

.....

Submitted :

.....

BORTSOVA, M.P.; GAMAYUKOVA, P.B.; POPLAVSKAYA, A.V.; SHFICHKO, N.P.;
PAVLOV, G.D.; PODUNOVA, A.T.; LOVA, N.I.; ALEKSANDROVA, R.P.;
ATARUKOV, A.G.; VOROB'YEVA, Ye.I.; GAB'YANTS, E.M.; GELLER, D.Ya.;
PARSHINA, M.A.; FILINA, R.A.; CHUVELIAYEVA, Ye.S.

Selecting demulsifiers for crude oils processed in Grozny refineries.
Trudy GroznII no.4:17-26 '59. (MIRA 12:9)

1. Groznenskiy neftyanoy nauchno-issledovatel'skiy institut (GrozNII)
(for Pavlov, Podunova, Lova).
(Grozny--Petroleum--Refining)

ABRAMYAN, A.A.; ATASYAN, S.M.; BELYAN, M.A.

Microdetermination of halides in organic compounds. Report No.2:
New method for the simultaneous microdetermination of chlorine and
sulfur in organic compounds containing C, H, O, Cl, S, and C, H, O,
N, Cl, S. Izv. AN Arm. SSR. Khim. nauki 13 no.5:343-346 '60.
(MIRA 14:2)

1. Institut organicheskoy khimii AN ArmSSR.
(Chlorine--Analysis) (Sulfur--Analysis)

S/171/61/014/005/001/001
E142/E485

AUTHORS: Abramyan, A.A., Atashyan, S.M.

TITLE: A new simplified method for the micro and semi-micro determination of silica in organic compounds

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. Khimicheskkiye nauki, v.14, no.5, 1961, 441-443

TEXT: Very few investigations have been carried out in the field of micro and semi-micro analysis of organosilicon compounds. Based on their previous publications (Ref.4: Izv. ArmSSR, KhN, v.12, 1959, 341; v.14, 1961, 35; v.14, 1960, 343) the authors describe a new and simple method in which the organic compounds were subjected to decomposition by using potassium permanganate in sealed glass tubes at 400 to 500°C for 1 hour. During this process the silica is quantitatively converted to SiO_2 . The amount of silica is determined by a gravimetric method with an accuracy of ± 0.01 to 0.36% . The method was used for analysing alkoxyalkyl- and alkoxyaryl-organosilicon compounds but it could also be applied for the determination of silica in other organosilicon compounds. There are 1 table and 4 Soviet-bloc references.

Card 1/2

A new simplified method ...

S/171/61/014/005/001/001
E142/E485

ASSOCIATION: Institut organicheskoy khimii. AN ArmSSR
(Institute of Organic Chemistry AS Armyanskaya SSR)

SUBMITTED: February 9, 1961

Card 2/2

ABRAMYAN, A.A.; ATASHYAN, S.M.

New halogen absorber in the simultaneous microdetermination of carbon, hydrogen, and halogen. Izv. AN Arm. SSR. Khim. nauki 14 no. 4:401-402 '61. (MIRA 14:10)

1. Institut organicheskoy khimii AN Armyanskoy SSR.
(Carbon--Analysis) (Hydrogen--Analysis) (Halogens)

ABRAMYAN, A.A.; ATASHYAN, S.M.

New adsorbent of halogens in the simultaneous microdetermination of carbon, hydrogen, and halogens. Izv. AN Arm. SSR. Khim. nauki 15 no. 6: 521-525 '62. (MIRA 16:2)

1. Institut organicheskoy khimii AN Armyanskoy SSR.
(Organic compounds) (Halogens)
(Carbon--Analysis) (Hydrogen--Analysis)

ATAULIN, V.V.; VLASOVA, R.M.; DAVYDOVA, Ye.A.; DANILENEO, I.S.; DZIOV, V.A.;
DUBROVIN, A.P.; YEFANOVA, L.V.; KARPENKO, L.V.; KLEPIKOV, L.N.;
KOTRELEV, S.V.; LUK'YANOV, N.I.; MEL'NIKOV, N.V., prof., obshchiy
red.; MKRTYCHAN, A.A.; NEMTINOV, A.M.; POGOSYANTS, V.K.; SEMIZ,
M.D.; SKOBLO, G.I.; SLOBODCHIKOV, P.I.; SMIRNOV, V.M.; SUSHCHENKO,
A.A.; SOKOLOVSKIY, M.M.; TRET'YAKOV, K.M.; FISH, Ye.A.; TSOY, A.G.;
TSYPKIN, V.S.; CHEKHOVSKOY, P.A.; CHIZHIKOV, V.I.; ZHUKOV, V.V.,
red.isd-va; KOROVENKOVA, Z.L., tekhn.red.; PROZOROVSKAYA, V.L.,
tekhn.red.

[Prospects for the open-pit mining of coal in the U.S.S.R.; studies
and analysis of mining and geological conditions and technical and
economic indices for open-pit mining of coal deposits] Perspektivy
otkrytoi dobychi uglia v SSSR; issledovaniya i analiz gornogeologi-
cheskikh uslovii i tekhniko-ekonomicheskikh pokazatelei otkrytoi
razrabotki ugol'nykh mestorozhdenii. Pod obshchei red. N.V.Mel'-
nikova. Moskva, Ugletekhizdat, 1958. 553 p. (MIRA 11:12)

1. Vsesoyuznyy tsentral'nyy gosudarstvennyy proyektnyy institut
"Tsentrorgiproshakht." 2. Chlen-korrespondent AN SSSR (for Mel'-
nikov).

(Coal mines and mining)

ABRAMYAN, A.A.; ATASHYAN, S.M.

New absorber of halogens (Cl, Br, and I) in a joint microde-
termination of carbon, hydrogen, and halogens. Izv. AN
Arm.SSR. Khim. nauki 18 no.2:216-218 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN ArmSSR. Submitted January
5, 1965.

MAVILLO-BASHV, ..., aspirant; RUMYAN, I.G., dozent

Copper and iron content in the organs and tissues of human fetuses
in different periods of their intrauterine development. Moscow,
Izvy SamMI 21:173-180 '62.

Copper, manganese and iron content in food concentrates and products.
Ibid. 181-185 (ISSN 17:5)

2. Iz kafedry biokhimi: Samarhanskogo meditsinskogo instituta imeni
Pavlova.

ATAULLAKHANOV, I.A.

Content of copper and iron in the organs of pregnant women
and the dynamics of the accumulation of these elements in the
organism of the fetuses. Vcp. med. khim. 9 no.6:587-592 N-D
'63. (MIRA 17:10)

1. Kafedra fiziologii i biokhimii cheloveka i zhivotnykh
Samarkandskogo gosudarstvennogo universiteta imeni A. Navoi.

L 23459-65 EWT(m)/SWP(j) Po-4 RM

ACCESSION NR: AR4048184

8/0081/64/000/009/8091/5091

SOURCE: Ref. zh. Khimiya, Abs. 98613

AUTHOR: Ataullov, A. Kh.; Badyasina, Z. I.

TITLE: Film forming properties of pentaphthalic esters modified with cotton seed oil acids

CITED SOURCE: Maslob.-zhir. prom-st²⁹, no. 7, 1963, 28-30

TOPIC TAGS: drying oil, surface coating-resin, resin film, pentaphthalic ester, pentaerythritol, cotton seed oil, pentaphthalic resin, iodine number

TRANSLATION: The authors synthesized a series of pentaphthalic resins, modified by cotton seed oil acids, which were enriched with linoleic acid and the fatty acid fractions of cotton seed oil with varying degrees of unsaturation. The iodine numbers of the acids used were 105.3, 124.3, 141.6, 160.2 and 159.7 (from the distilled acids of cotton soapstock). The composition of the pentaphthalic resins in % by weight was: 62.6% fatty acids, 17.8% pentaerythritol and 20% phthalic anhydride. Tests on drying oils containing 45% pentaphthalic resins, 50% white spirit and 5% by weight Pb-Mn-Co butyrate siccativ showed the best

Cord 1/2

L 23459-65

ACCESSION NR: ARAD49184

results for resins modified with acid fractions having iodine numbers of 124.3 and 141.6. V. Latov

ASSOCIATION: None

SUB CODE: MT

ENGL: 00

Card 2/2

L 25657-65 EMT(m)/EMP(j) Po-4 RH
 ACCESSION NR. AR4048185 S/0081/64/000/009/S095/S095
 SOURCE: Ref. Khimiya, Abs. 95641
 AUTHOR: Atablayev, A. Kh.; Bolyazhina, Z. I.
 TITLE: Film forming properties of xylitophthalic esters modified with cotton seed oil acids
 CITED SOURCE: Tr. Vses. n.-i. in-ta zhirov, vy p. 23, 1963, 348-355
 TOPIC TAGS: drying oil, cotton seed oil, linseed oil, xylitophthalic ester, varnish film, polyester film
 TRANSLATION: The authors synthesized xylitophthalic esters with a 60% fat content, which were then modified with two types of cotton seed oil acids: the mixed acids and the unsaturated fraction with iodine numbers of 124.3-160.2; the saturated fraction was removed by crystallization with urea. The composition of the xylitophthalic ester in % by weight was: 60.0% fatty acids, 15.4% xylitol and 24.6% phthalic anhydride. The phthalic anhydride and then the xylitol were added, with stirring, to the fatty acids after they had been heated to 210C. The temperature was then raised to 200C and kept at this level until

Card 1/2

L 25657-65

ACCESSION NR: AR4048185

the end of the polyesterification process, which was checked by means of the acid number and the viscosity. The time required for synthesis fluctuated between 7.5 and 5.0 hours depending on the degree of unsaturation of the acids. Drying oils containing 45% xylitophthalic ester, 50% white spirit and 5% Pb-Mn-Co butyrate siccative were tested along with pentaphthalic drying oil based on cameline oil, natural drying oil and linseed oil varnish. The tests showed that xylitophthalic drying oil based on cotton seed oil acids with an iodine number of 160.2 had the best film-forming properties. V. Latov

SUB CODE: OC, MT

ENCL: 00

Card 2/2

L 25786-65 BNG(j)/EWT(m)/EPT(c)/EPT(n)-2/EPT(j)/EPT(t)/EPT(t)/EWA(h)/EWA(1)
 Pc-L/Pr-L/Pu-L/Pab JD/CG/RM
 ACCESSION NR: AR4040356 S/0081/64/000/001/S(70)/S070

SOURCE: Ref. zh. Khimiya Abs. (S492)

AUTHOR: Ataulayev, A. Kh.; Badyazhina, Z. I.

TITLE: The effect of gamma irradiation on the properties of film forming substances

CITED IN: Tr. Vses. n.-i. in-ta shirov. vyp. 23, 1963, 356, 365

TOPIC: cotton oil, alkyl, polymer film, film formation, radiation, pentaphthalic acid, xyphthalic acid, cotton seed oil, fatty acid, film aging

TRANSLATION: The authors studied the effect of γ -radiation (the source of radiation was Co^{60}) on cotton seed oil, as well as on a mixture of acids isolated from this oil and on films of alkyd drying oils containing these acids. They found that the peroxide number increases and the acid number of the mixture of acids from cotton seed oil decreases under the influence of γ -radiation (at doses up to 10.6 million roentgens). γ -Radiation had less of an effect on the original refined cotton seed oil than on the fatty acids. Preliminary irradiation of the fatty acids significantly shortened the process of the preparation of

Card 1/2

L 25786-65

ACCESSION NR: AF4040356

pentaphthalic esters modified with these fatty acids. The same thing was observed in the case of modified xyphthalic esters. Irradiation accelerates the drying out of pentaphthalic and xyphthalic drying oils and enables the use of drying agents to be avoided (especially in the case of pentaphthalic drying oils). Pentaphthalic and xyphthalic films containing acids from cotton seed oil dry more rapidly under the influence of radiation without drying agents than in the presence of drying agents without radiation (under the usual conditions). Irradiation of films in the presence of drying agents results in acceleration of the aging process. From the summary

SUB CODE: MT, PP

ENCL: 00

Card 2/2

ATAULLAYEV, N.A.

Variation of the interval between the flowering of male and female
inflorescences in cotton. Uzb. biol. zhur. no. 3:44-47 '59.

(MIRA 12:11)

1. Filial Instituta zemledeliya Akademii sel'skokhozyaystvennykh
nauk Uzbekskoy SSR.

(Uzbekistan--Cotton)

(Plants, Flowering of)

ATAULLAYEV, N.A., kand. biolog. nauk

Summer sowing of self-pollinated lines of corn in Uzbekistan.
Agrobiologiya no.4:630-632 JI-Ag '59. (MIRA 12:10)

1. Milyutinskaya gosudarstvennaya selektsionnaya stantsiya, Gallya-Aral,
Samarkandskoy oblasti,
(Azbekistan--Corn (Maize))

S/275/63/000/001/033/035
D413/D308

AUTHORS: Ataullayev, N. A., Abolina, G. I., Tursunov, S. and
Abdurashitov, I.

TITLE: The effect of ultrasonic vibration on the development
of melons

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye,
no. 1, 1963, 18, abstract 1V 131 (Uzb. biol. zh.,
no. 2, 1962, 25-29 (summary in Uzb.))

TEXT: The authors have studied the effect of ultrasonic waves on
the seeds of the Kokcha type of melon. The melon seeds were first
steeped in water for 24 hours at room temperature. The ultrasonic
treatment of the seeds was carried out at frequencies of 1 Mc/s,
1.25 Mc/s and 23 kc/s with exposures of 1, 3, 6, 9 and 12 minutes.
The experimental results showed for example, that ultrasonic treat-
ment of the seeds at 1 Mc/s for an exposure of 3 - 4 minutes stimu-
lates the growth and development of the plants, and in individual
cases raises the productivity by 20-40%. (Abstracter's note: Com-
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