"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; KAZARYAN, N.A.

Potentiometric titration of multicomponent and mixtures in nonaqueous solutions. Zhur.anal.khim. 16no.2:129-134 Mr-Ap '61. (MIRA 14:5)

1. Mendeleyev Moscow Chemico-Technological Institute.
(Potentiometric analysis)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SHEMET, N. Sh.

Separate potentiometric titration of mixtures of organic bases in a methylethylketone medium with a perchloric acid solution. Zhur.anal.khim. 16 no.3:331-336 My-Je '61. (MIRA 14:6)

1. D. I. Mendeleev Moscow Chemico-Technological Institute.
(Bases (Chemistry))

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

S/191/62/000/006/011/016
B110/B138

AUTHORS: Kreshkov, A. P., Bykova, L. N., Smolova, N. T.

TITLE: Quantitative determination of monomeric unsaturated carboxylic acids by the titration method in nonaqueous solutions

PERIODICAL: Plasticheskiye massy, no. 6, 1962, 51-53

TEXT: A simple and quick method has been developed for the quantitative determination of individual monomeric and dibasic unsaturated acids (maleic and fumaric acid) and their mixtures. They are potentiometrically titrated in isopropyl alcohol by means of 0.1 N benzene-methanol solution of tetramethyl ammonium hydroxide. ~0.3 mg--equiv. acid in isopropyl alcohol was mixed with 40 ml isopropyl alcohol, the electrodes inserted, stirred, and mixed with tetramethyl ammonium. The following monobasic unsaturated acids were titrated: crotonic, undecylenic, oleic, elaidic, erucic, sorbic, and linoleic acids. The acids insoluble in water with the exception of crotonic acid corresponded to the acidity of crotonic acid ($2.04 \cdot 10^{-5}$). The error of the

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quantitative determination is $\leq 1\%$. In addition, the following dibasic unsaturated acids were titrated: maleic, fumaric, itaconic, and citraconic acids. In isopropyl alcohol, each carboxyl group of dibasic acids is titrated individually, which is characterized by two breaks in the titration curves. The relative error in the quantitative determination of dibasic unsaturated acids is $\leq 1\%$. In isopropyl alcohol, the determination of mixtures of both dibasic acids alone, and of dibasic with monobasic acids is possible. Three breaks in the titration curve were found when a mixture of maleic and fumaric acid was titrated. The first break corresponds to the first step of neutralization of maleic acid, the second to the complete neutralization of fumaric acid, and the third to the second step of neutralization of maleic acid. Maleic acid was titrated with $V_m = 2(V_3 - V_2)$. The volume used for the neutralization of fumaric acid is determined from $V_F = V_3 - 2(V_3 - V_2)$. When maleic and itaconic acid are mixed, the first break corresponds to the first step of neutralization of maleic acid, the second to the first step of neutralization of itaconic acid, and the third to the combined neutralization of the second carboxyl groups of both acids. For the

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neutralization of itaconic acid, $V_{It} = 2(V_2 - V_1)$ was used, and for the neutralization of maleic acid, $V_M = V_3 - 2(V_2 - V_1)$. For mixtures of dibasic and monobasic acids, the neutralization of dibasic acid requires $V = 2(V_3 - V_2)$, and the neutralization of monobasic acid, $V = V_3 - 2(V_3 - V_2)$. The relative error of the quantitative analysis is here $\leqq 2\%$. There are 3 figures and 2 tables.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A. P.; BYKOVA, L. N.; RUSAKOVA, M. S.; KAZARYAN, N. A.

Potentiometric method of analyzing mixtures of organic and nitric acids in nonaqueous media. Zav.lab. 28 no.1:11-13 '62. (MIRA 15:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut i Yaroslavskiy tekhnologicheskiy institut.
(Acids, Organic) (Nitric acid)
(Potentiometric analysis)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; KAZARYAN, N.A.

Differentiating the properties of organic solvents with respect to acids. Zhur.prikl.khim. 35 no.7:1575-1580 Jl '62. (MIRA 15:8)

(Solvents) (Acids)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SHEMET, N.Sh.

Nonaqueous solutions. Part 15: Study of the differentiating properties of organic solvents with respect to bases. Zhur.ob.khim. 32 no.8:2397-2402 Ag '62. (MIRA 15:9)
(Solvents) (Aniline)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SMOLOVA, N.T.

Methods of analysis of dicarboxylic acids and their mixtures. Lakokras.mat.i ikh prim. no.1:45-51 '63. (MIRA 16:2)
(Acids, Organic) (Resins, Synthetic)
(Chemicsty, Analytical)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, L.N.; KAZARYAN, N.A.

Potentiometric titration of multicomponent mixtures of acids in ketone media. Trudy Kom.anal.khim. 13:309-314 '63. (MIRA 16:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva, kafedra analiticheskoy khimii.
(Acids, Organic) (Potentiometric analysis)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

L 12708-63 EPF(c)/BDS/EWT(m) Pr-4 RM/WW/JW
ACCESSION NR: AP3000301 S/0020/63/150/001/0099/0101

59
58

AUTHOR: Kreshkov, A. P.; Bykova, L. N.; Pevzner, I. D.

TITLE: The analysis of diamines and their mixtures by a non-aqueous titration method

SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 99-101

TOPIC TAGS: photometric titration, diamines, non-aqueous solvents, perchloric acid, chloroform-acetonitrile

ABSTRACT: A potentiometric titration of diamines and their mixtures in a medium of non-aqueous solvents is presented. Since many diamines are either insoluble in water or are very weak electrolytes, the volumetric methods of analysis in non-aqueous media has a greater perspective. The advantage is that, in the non-aqueous media, it is possible to determine the mixtures of diamine and their constants of dissociation which are very closely related by means of differentiation. The titration is performed with perchloric acid solution, 0.1 N, in a medium of chloroform-acetonitrile (4:1). From a number of investigated solvents chloroform-acetonitrile was found to be best for quantitative determination of diamines individually and in mixtures with a relative error of + or - 1% and + or - 3% respectively. The original article has: 2 tables and 2 figures.

Card 1/2

Ass: Moscow Chemical and Technological Inst.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SMOLOVA, N.T.

Potentiometric method for determining dicarboxylic acids used for the manufacture of synthetic resins. Lakokras. mat. i ikh prim. no.3:50-54 '63. (MIRA 16:9)
(Resins,Synthetic) (Acids) (Potentiometric analysis)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, L.N.

Iodine in forest soils of the Voronezh State Preserve. Trudy Vor. gos. zap. no.13:183-185 '61. (MIRA 16:8)

(Voronezh Preserve--Soils--Iodine content)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

REMEZOV, N.P. [deceased]; RODIN, L.Ye.; BAZILEVICH, N.I.; Prinimali uchastiye: ALEKSANDROVA, V.D.; BORISOVA, I.V.; BYKOVA, L.N.; ZONNA, S.V.; KARPOVA, V.G.; MINA, V.N.; NECHAYEVA, N.T.; PONYATOVSKAYA, V.M.; REMEZOVA, G.L.; SAMOYLOVA, Ye.M.; SMIRNOVA, K.M.; SUKHOVERKO, R.V.

Methodological instructions for studying the biological cycle of ash substances and nitrogen of terrestrial plant communities in the main natural zones of the temperate zone. Bot. zhur. 48 no.6:869-877 Je '63. (MIRA 17:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad i Pochvennyy institut imeni V.V. Dokuchayeva Ministerstva sel'skogo khozyaystva SSSR, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; KAZARYAN, N.A.; ALDAROVA, N.Sh.

Progress in the analysis of inorganic and organic compounds in nonaqueous solutions. Usp. khim. 31 no.4:490-527 '62. (MIRA 16:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SMOLOVA, N.T.

Differentiating properties of organic solvents toward dicarboxylic acids. Izv.vys.ucheb.zav.; khim. i khim.tekh. 7 no.2:189-193 '64. (MIRA 18:4)

1. Kafedra analiticheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta im. D.I.Mendeleyeva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SMOLOVA, N.T.

Analysis of polycomponent mixtures of dicarboxylic acids by titration in nonaqueous solutions. Zhur. anal. khim. 19 no.2:156-162 '64. (MIRA 17:9)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

FRUNZKOV, A.P.; BYKOVA, I.N.; SMOLOVA, N.T.

Analyzing the isomers of phthalic acid and their mixtures by the method of potentiometric titration in nonaqueous solutions. Plast. massy no.10:49-51 '64. (MIRA 17:10)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; KIRILLOVA, O.F.

High-frequency titration of aliphatic dicarboxylic acids in nonaqueous solutions. Izv.vys.ucheb.zav.; khim.i khim.tekh. 7 no.6:914-918 '64. (MIRA 18:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva, kafedra analiticheskoy khimii.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; SKRIPKO, L.A.; PEVZNER, I.D.

Differentiated determining of diamines used as rubber stabilizers with the method of titration in nonaqueous solutions. Kauch. i rez. 23 no.12:47-50 D '64. (MIRA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva i Nauchno-issledovatel'skiy institut khimikatov dlya polimernykh materialov.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; PEVZNER, I.D.

Differentiating action of a chloroform - methyl ethyl ketone mixed solvent with respect to amine and diamine mixtures. Zhur. ob. khim. 35 no.8:1332-1336 Ag '65. (MIRA 18:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KRESHKOV, A.P.; BYKOVA, L.N.; KIRILLOVA, O.F.

High-frequency titration of dicarboxylic acids in a dimethylformamide medium. Zhur. anal. khim. 20 no.8:840-844 '65. (MIRA 18:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

L 13883-66 EWT(m)/EWP(j)/T WW/DJ/RM/WE

ACC NR: AP6005518 SOURCE CODE: UR/0080/66/039/001/0200/0203

AUTHOR: Kreshkov, A. P.; Bykova, L. N.; Pevzner, I. D.; Skripko, L. A. 52 B

ORG: Moscow Chemical Technology Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut); Scientific Research Institute of Chemicals for Polymeric Materials (Nauchno-issledovatel'skiy institut khimikatov dlya polimernykh materialov)

TITLE: Synthesis and analysis of secondary aromatic diamines used as stabilizers of polymeric materials 15

SOURCE: Zhurnal prikladnoy khimii, v. 39, no.1, 1966, 200-203

TOPIC TAGS: stabilizer additive, fuel additive, lubricant additive, quantitative analysis

ABSTRACT: A preparative method has been developed for synthesizing p-phenylenediamine derivatives from N-phenyl-p-phenylenediamine. It is noted that such derivatives are suitable as stabilizers for polymeric materials, motor fuels and lubicating oils. N-heptyl-, N-octyl-, and N-nonyl-N'-phenyl-p-phenylenediamine were prepared by alkylation of N-phenyl-p-phenylenediamine with the appropriate alcohol in the presence of Raney nickel catalyst at 130—156C in 95.8—97.8% yields (based on the amine). Melting points after recrystallization were 49—50, 52—53, and 54—55C, respectively. A method of analysis was also developed for intermediate products containing mixtures of N-phenyl-p-phenylenediamine and N-alkyl-N'-phenyl-p-phenylenediamines. The method

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L 13883-66

ACC NR: AP6005518

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involves determination of primary and secondary amino groups of aromatic amines by titration after treatment with salicylaldehyde in a medium such as alcohols, ketones, or a 4/1 chloroform—methyl ethyl ketone mixture. The method is based on the fact that reaction products of primary amino groups with salicylaldehyde are less alkaline than the secondary amino group reaction products. Orig. art. has: 2 figures. [SM]

SUB CODE: 21 SUBM DATE: 18Dec64/ ORIG REF: 004/ OTH REF: 009/ ATD PRESS: 4193

18

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, L.N.; RASHEVSKAYA, S.T.; KAZARYAN, N.A.; RUBTSOVA, Ye.S.

Analysis of hydroxynaphthoic acids and naphthols in process melts by titration in nonaqueous solutions. Zav.lab. 31 no.4:415-417 '65. (MIRA 18:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva i Rubezhanskiy khimicheskiy kombinat.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, L.N.; FEDOTOVA, O.Ya.; KOZYREVA, N.M.; PEVZNER, I.D.

Determining the molecular weights of unsaturated polyamides by titration of the end groups in nonaqueous solutions. Plast. massy no.2:53-54 '66. (MIRA 19:2)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

ACC NR: AP6032070 SOURCE CODE: UR/0362/66/002/009/0905/0919

AUTHOR: Bykova, L. P.; Matveyev, L. T.

ORG: none

TITLE: Evolution of the cloud and temperature fields in a moving cyclone (a numerical experiment)

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 9, 1966, 905-919

TOPIC TAGS: cyclone, cloud formation, atmospheric temperature, atmospheric turbulence, cloud water content, cyclone cloudiness

ABSTRACT: A numerical experiment is performed on the simulation of conditions for cloud and temperature field formations in a moving cyclone without taking into account its thermal asymmetry. The vertical currents, turbulent exchange, and latent heat were considered in the initial equations of heat and moisture transfer. The basis of the numerical solution of the equations is a method which was developed earlier by one of the authors. The calculations are made for a large range of variations of the parameters involved, assuming different profiles of the

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ACC NR: AP6032070

vertical velocity and forms of the boundary conditions. Much data are obtained allowing an estimation of the influence of the vertical velocity, released latent heat, the surface temperature, the air moisture, the variation in air temperature, and the cloud water content. Some results of the similarity theory for determining the relative contribution of several parameters are also used. The results of the numerical simulation agree quite well with the experimental data. At the same time, they show that the thermal regime and cloudiness of a cyclone are formed under the influence of many factors which are quite varied. Orig. art. has: 7 figures, 10 tables, and 21 formulas. [Authors' abstract]

SUB CODE: 04/ SUBM DATE: 08Apr66/ ORIG REF: 029/ OTH REF: 003/

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

FEDOTOVA, O. Ya.; LOSEV, I.P.; SKRIPCHENKO, N.I.; OKUNCHIKOVA, M.A.; BYKOVA, L.V.; SHTIL'MAN, M.I.

Synthesis and investigation of polyurea. Vysokom.soed. 1 no.11: 1685-1690 N '59. (MIRA 13:5)

(Urea)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

ACCESSION NR: AP4012184 S/0191/64/000/002/0012/0016

AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; By*kova, L. V.

TITLE Production of self extinguishing chlorine-containing polyester resins using unsaturated organophosphorus compounds.

SOURCE: Plasticheskiye massy*, no. 2, 1964, 12-16

TOPIC TAGS: polyester resin, flameproofing, self extinguishing polyester, fire resistant fiberglass, chlorine containing polyester, vinylphosphonate polymer, phosphorus containing polyester, polyester resin curing

ABSTRACT: Fire-resistant binders for fiber glass can be obtained from a chlorine-containing polyester resin, di-β,β'-chlorethyl ester of vinylphosphonic acid, and polyesters based thereon. Hardening of the chlorine-containing polyester resins by adding organophosphorus compounds at room temperature in the presence of various initiator systems was studied. The system, consisting of unsaturated polyester, styrene, and polyester based on the di-β,β'-chlorethyl es-

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ACCESSION NR: AP4012184

ter of vinylphosphonic acid, hardens at 20C in presence of benzoyl peroxide and dimethylaniline. The phosphorus-containing polyester reacts through the double bond of the vinyl group, forming insoluble 3-dimensional products. Fire-resistant fiber glass having excellent physical-mechanical properties can be obtained by using a highly unsaturated polyester resin in conjunction with the di-β,β'-chlorethylester of vinylphosphonic acid or polyesters based thereon; better properties are attained with the organophosphorus polymer. Orig. art. has: 5 tables, 4 figures and 1 equation.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: MT NO REF SOV: 005 OTHER: 006

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

L 62831-65 EWT(m)/EPF(c)/EPR/EWP(j) Pc-4/Pr-4/Ps-4 WW/JAJ/RM

ACCESSION NR: AP5019045

UR/0286/65/000/012/0075/0075
678.674 : 678.028.294

AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; Bykova, L. V.; Rubtsova, I. K.; Travnikova, L. V.

TITLE: A method for hardening unsaturated polyester resins. Class 39, No. 172037

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 75

TOPIC TAGS: plastic, resin, polyester resin, thermal stability

ABSTRACT: This Author's Certificate introduces a method for hardening unsaturated polyester resins by copolymerization with a cross-linking phosphorus-containing agent in the presence of an oxidation-reduction system at room temperature. The thermal stability and self-stopping properties of these polyesters are improved by using di(methacrylethyl)methylphosphinate as the phosphorus-containing cross-linking agent.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific

Card 1/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

L 62831-65

ACCESSION NR: AP5019045

Research Institute of Plastics)

SUBMITTED: 31Aug64 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

L 38508-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6018123 (A) SOURCE CODE: UR/0191/66/000/006/0019/0021

AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; Bykova, L. V.

ORG: none

35
34
B

TITLE: Copolymerization of unsaturated polyesters with different monomers

SOURCE: Plasticheskiye massy, no. 6, 1966, 19-21

TOPIC TAGS: polyester plastic, copolymerization, polymerization catalyst, heat resistance, hardness, vanadium pentoxide, monomer

ABSTRACT: The effect of vanadium pentoxide as an accelerator in an oxidation-reduction curing system for the copolymerization of unsaturated polyesters with different monomers was investigated. The study was conducted using resins based on polyethylene glycol maleinate hexachloroendomethylenetetrahydrophthalate blended with polyester acrylate TMG-3 or with polydiethylene glycol maleinate phthalate. Resins were cured with cumene hydroperoxide (C) and 0.25 and 0.5% solutions of V_2O_5 in acid phosphate (accelerator B). The gelling rate was affected much more by change in concentration of B than of C. Gelling with C + B started in 1-3 hours in the polyester samples; the corresponding

Card 1/2

UDC: 678.674'4'0=9:678.7447 :678.044.8

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L 38508-66

ACC NR: AP6018123

induction period at room temperature for C+NK (Abstractor's note--NK not defined, probably cobalt naphthenate) was several days. The C+B system gives a harder, more heat stable lightly colored non-sticky glassy product. If resins made with C+B are heat treated for 3 hours at 80°C their hardness and heat stability are higher than for room temperature cure. Gel formation is slowed down in a 3-component system of C+B+NK. Optimum hardness and heat stability are obtained if about 0.5 parts by weight of NK is used per 100 parts of resin. Unsaturated polyesters can be cured at room temperature with systems containing V_2O_5; resultant resins have improved properties. Orig. art. has: 8 figures and 1 table.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 009

Card 2/2

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L 08798-67 EWT(m)/EWP(j) IJP(c) WW/RM

ACC NR: AP6030851 (A,N) SOURCE CODE: UR/0191/66/000/009/0040/0042

AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; Bykova, L. V.; Chertok, O. M.; Volkov, B. V.; Zaslavskiy, N. N.; Telegina, L. I.; Novikova, T. V.

ORG: none

34

TITLE: Moisture resistance and chemical stability of unsaturated polyester resins modified with colophony

SOURCE: Plasticheskiye massy, no. 9, 1966, 40-42

TOPIC TAGS: solid mechanical property, polyester plastic, synthetic material, physical chemistry property, stability constant

ABSTRACT: Moisture resistance and oxidation stability of two commercial resins modified with colophony, resin PN-10 (a copolymer of an unsaturated ester with styrene and resin TGM-3 (a copolymer of an unsaturated ester and polyacrylate) and some glass laminates based on these two resins were investigated. The physical properties of the colophony-modified resins are tabulated. The tensile strength of the colophony-modified resins and the glass-laminates based on them was practically unaffected after holding in water or 25%-sulfuric acid for 7-360 days. In general, the addition of colophony was found to be beneficial with respect to water resistance and chemical stability of the unsaturated polyester resins. Orig. art. has: 1 figure and 3 tables.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 006

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

UL'YANOV, Aleksey Fedorovich, doktor tekhn. nauk; KOBA, Viktor Grigor'yevich, kand. tekhn. nauk; LOGVINOV, M., red.; BYKOVA, M., red.; LUKASHEVICH, V., tekhn. red.

[Overall mechanization of livestock farms] Kompleksnaia mekhanizatsiia v zhivotnovodstve. Saratov, Saratovskoe knizhnoe izd-vo, 1961. 261 p. (MIRA 15:4)

(Farm mechanization)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

KHRISTOFOROV, I.D., prof.; BYKOVA, M., red.; LUKASHEVICH, V., tekhn. red.

[Recommendations for the use of ultraviolet irradiation in animal husbandry] Rekomendatsii po primeneniiu ul'trafioletovogo oblucheniia v zhivotnovodstve. Saratov, Saratovskoe knizhnoe izd-vo, 1962. 14 p. (MIRA 16:6)

1. Saratov. Zootekhnichesko-veterinarnyy institut.
(Ultraviolet rays--Physiological effect)
(Animal industry)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M. A.

"The Toxicological Characteristics of Ephedra distachya L. in Relation to Sheep." Cand Vet Sci, Inst of Experimental Veterinary Medicine, Moscow, 1954. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

USSR / MEDICINE

A study of the toxic influence of tetracyclines upon animal organisms. M. A. Goberniev, M. A. Bykova, M. D. Ushakova, and L. B. Mogilevchik. *Antibiotiki* I, No. 4, 18-20(1956).—Intravenous injection of biomycin (I) caused a two-fold increase of liver fat (II) and a 1.8-fold decrease of glycogen (III) in rats. Apparently, I in relatively high concens. suppressed aerobic phosphorylation, which caused a breakdown of III accumulation in the liver and decreased the maintenance of III. II exchange was also disrupted and led to its increase. I may have altered the osmotic pressure properties of liver cells and caused a discoordination of enzymic processes, thereby explaining certain side reactions of I.

D. M. Chern

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

STOROZHEV, I.A.,; EIDEL'SHTEYN, S.I.,; BYKOVA, M.A.

Pharmacological evaluation of bicillin. Antibiotiki, Moskva 9 no.2:29-32 Mar-Apr 56

(MLRA 9:3)

1. Otdel eksperimental'noy terapii (zav.-chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(PENICILLIN, deriv.
benzathine penicillin G, pharmacol.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M.A.

USSR/Cultivated Plants. Medicinal Plants. Essential Oil Plants
Toxic Plants M

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34842

Author : Bykova M.A.
Inst : Moskow Society for Natural Research. Biological Branch
Title : Regarding Certain Peculiarities of the Alkaloidal Content in Ephedra Distachya L.

Orig Pub : Byul. Mosk. o-va ispyt. prirody. Otd. biol., 1956, 61, No 4, 92-93

Abstract : In studying samples of Ephedra distachya L., that had caused heavy poisoning of sheep in steppe rayons of the Astrakhanskaya Oblast. it was ascertained that the cause of the poisoning appeared attributable to the alkaloids and that the process of their accumulation in male and female plants varies depending on the phase of the development of plants. In male plants, the accumulation of alkaloids occurs principally in the period of pre-blooming and blooming; in

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USSR/Cultivated Plants: Medicinal Plants. Essential Oil Plants. Toxic Plants M

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34842

female plants, although high during the period prior to blooming, the alkaloid content increases still further in the phase of fruit-bearing and ripening. The deposit of alkaloids is found mostly in the small branches of the ephedra; fruits contain lesser amounts of alkaloids. -- Vyatkina.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

Country : USSR
Category : Diseases of Farm Animals. Toxicoses. R
Abs. Jour. : Ref Zhur-Biol., No 21, 1958, 97029

Author : Bykova, M. A.
Institut. : -
Title : How to Protect Sheep from Ephedra Poisoning.

Orig Pub. : Ovtsevodstvo, 1958, No 2, 39-40

Abstract : It is shown that the toxicity of ephedra (Ephedra distrachya) is caused by its containing ephedrine. As green ephedra was fed daily in amounts of 1.2-1.8 kg, sheep poisoning with lethal results occurred after 20-29 days, lambs weighing 10-25 kg perished after daily feeding of 0.2-0.4 kg of ephedra in 15-24 days, and in lambs which weighed 10 kg and which consumed 0.1 kg of ephedra daily, poisoning occurred after 13-15 days. When ephedra was given with inter-

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

Country : USSR
Category : Diseases of Farm Animals. Toxicoses. R
Abs. Jour. : Ref Zhur-Biol., No 21, 1958, 97029

Author :
Institut. :
Title :

Orig. Pub. :

Abstract : vals of several days, poisonings did not occur. In order to prevent poisonings, grazing of tegs on ephedra grass should nor exceed 2-3 days and grazing of sheep and young lambs 5-7 days. Winter is the best season for utilizing ephedra pastures as no sheep poisonings occur after the first autumn frosts. -- A. D. Musin

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

USSR / Pharmacology, Toxicology. Chemo-Therapeutic Preparations. Antibiotics. V

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 27916

Author : Storozhev, A. I.; Veis, R. A.; Eydel'shteyn, S. I.; Bykova, M. A.; Berezina, Ye. K.

Inst : Not given

Title : The Influence of Streptomycin With an Admixture of Molybdenum on the Animal Organism

Orig Pub : Farmakol. i toksikologiya, 1958, 21, No 1, 67-71

Abstract : Prolonged subcutaneous introduction to white mice and rats of a solution of molybdenum phosphate (I) in a dose of 0.2-4 gamma as well as in the form of admixture to streptomycin does not induce any negative influence on the growth and development of young animals. Multiple injections of 16-30 gamma of I and its mixture with streptomycin do not induce an influence on the function of kidneys and diuresis. Prolonged introduction to rabbits of

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M. A., GUBERNIYEV, M. A., USHAKOVA, M. D.

"Experimental data on the study of the toxic effect of tetracyclins on the animal organism."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M.A.; AVER'YANOVA, L.L.

Method for determining chlortetracycline concentrations in animal liquids, organs and tissues with the aid of paper disks. Antibiotiki 4 no.6:96-100 N-D '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(CHLORTETRACYCLINE chem.)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M.A.; STOROZHEV, I.A.; BEREZINA, Ye.K.

Pharmacology of d-cycloserine. Antibiotiki 10 no.7:626-629 Jl '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

DERESHKEVICH, Yu.V., inzh.; YEVSEYEV, A.V., inzh.; ROMOV, I.V., inzh.; TRUBACHEV, I.A., inzh.; BYKOVA, M.F., inzh., nauchn. red.

[Safety engineering instructions for carrying out anti-corrosion operations] Instruktivnye ukazaniia po tekhnike bezopasnosti pri proizvodstve antikorroziinykh rabot. Moskva, Stroiizdat, 1965. 85 p. (MIRA 18:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye teplotekhnicheskikh i termoizolyatsionnykh rabot.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

SHUL'GIN, Georgiy Tikhonovich; ZALOZNYY, Kirill Danilovich; BYKOVA, M.G., red.; GOR'KOVA, Z.D., tekhn.red.

[Concise manual of aromatic plants] Kratkii spravochnik po efiromaslichnym kul'turam. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 160 p. (MIRA 13:2)

(Aromatic plants)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

MARKOV, Vladimir Mikhaylovich; BORUSHKO, Mikhail Adamovich; BYKOVA, M.G., red.; DEYEVA, V.M., tekhn.red.

[Vegetable growing; laboratory exercises] Ovoshchevodstvo; laboratornyi praktikum. Izd.2., perer. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 213 p. (MIRA 14:2)
(Vegetable gardening)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

SOBOLEV, Aleksey Semenovich; KAPLAN, G.D. [deceased], red.; BYKOVA, M.G., red.; DEYEVA, V.M., tekhn. red.

[Practical manual in agricultural entomology] Praktikum po sel'skokhoziaistvennoi entomologii. Moskva, Gos. izd-vo sel'khoz. lit-ry zhurnalov i plakatov, 1961. 325 p. (MIRA 14:8)
(Entomology)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

EDEL'SHTEYN, Vitaliy Ivanovich, prof.; BYKOVA, M.G., red.; CHELYSHKIN, Yu.G., red.; GUREVICH, M.M., tekhn. red.; BALLOD, A.I., tekhn. red.

[Vegetable gardening]Ovoshchevodstvo. 3., perer. izd. Moskva, Sel'khozizdat, 1962. 439 p. (MIRA 16:2)
(Vegetable gardening)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

GAGANOV, Pavel Gavrilovich; SINITSYNA, N.S., red.; BYKOVA, M.G., red.; TRUKHINA, O.N., tekhn. red.

[Perennial phloxes] Floksy mnogoletnie. Izd.2., perer. Moskva, Sel'khozizdat, 1963. 205 p. (MIRA 16:8)
(Phlox)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

GATIN, Zh.I., kand. sel'khoz.nauk; BYKOVA, M.G., red.; TRUKHINA, O.N., tekhn. red.

[Sea buckthorn] Oblepikha. Moskva, Sel'khozizdat, 1963.157 p. (MIRA 16:8)

(Sea buckthorn)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BREZHNEV , Dmitriy Danilovich, akademik; BYKOVA, M.G., red.; TRUKHINA, O.N., tekhn. red.

[Fresh vegetables in summer and winter] Svezhie ovoshchi letom i zimoi. Moskva, Sel'khozizdat, 1963. 117 p. (MIRA 16:10)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Brezhnev).

(Vegetables)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BOBKOV, V.A.; DANILOV, R.L.; DRACHEVA, T.A.; NOSKOVA, G.L.; OLENEV, Yu.A.; KHOLOPOVA, A.A.; SHELAPUTIN, V.I.; RYUTOV, D.G., red.; BYKOVA, M.G., red.; OKOLELOVA, Z.P., tekhn.red.

[Use of refrigeration for the preservation of agricultural products] Primenenie kholoda dlia khraneniia sel'skokhoziaistvennykh produktov. Moskva, Sel'khozizdat, 1963. 53 p. (MIRA 16:12)

1. Nauchnyye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta kholodil'noy promyshlennosti (for all except Bykova, Okolelova).

(Farm produce--Storage)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

DALLAKYAN, G.B., red.; ROSSOSHANSKAYA, V.A., red.; BYKOVA, M.G., red.

[Manual on the seed production of vegetable and vine plants] Spravochnik po semenovodstvu ovoshchnykh i bakhchevykh kul'tur. Moskva, Izd-vo "Kolos," 1964. 694 p. (MIRA 17:6)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

LESNICHIY, Pavel Spiridonovich; BYKOVA, M.G., red.

[In nature's workshop; notes of an experimenting agronomist] V masterskoi prirody; zapiski agronoma - opytnika. Moskva, Izd-vo "Kolos," 1964. 78 p. (MIRA 17:7)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

PAVLOV, Ivan Petrovich, prof. Prinimali uchastiye: TATARINTSEV, A.S., prof.; VIDENIN, K.F., dots.; RUBTSOV, M.I., dots.; YERMILOVA, A.A., dots.; BYKOVA, M.G., red.

[Breeding and seed production of vegetable crops] Selektsiia i semenovodstvo ovoshchnykh kul'tur. Moskva, Sel'khozizdat, 1963. 279 p. (MIRA 17:11)

1. Plodoovoshchnyy institut im. I.V.Michurina (for Tatarintsev, Videnin, Rubtsov, Yermilova).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

PRUTSKOV, F.M., kand. sel'khoz. nauk, dots.; RUBTSOVA, V.P., kand. sel'khoz. nauk; KRYUCHEV, B.D., prepodavatel'; GRACHEVA, V.S., red.; BYKOVA, M.G., red.

[Plant growing] Rastenievodstvo. Moskva, Izd-vo "Kolos," 1964. 525 p. (MIRA 17:7)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

SHEYKO, I.N.; GORODYSKIY, A.V.; BYKOVA, M.I.

Polarographic observation of fused potassium fluozirconate. Zhur. neorg.khim. 6 no.10:2341-2343 O '61. (MIRA 14:9)
(Potassium fluozirconate) (Polarography)

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21878

18.3100 1087

S/073/61/027/002/003/004
B101/B208

AUTHORS: Nizhnik, A. T. and Bykova, M. I.

TITLE: Electrochemical study of indium-bismuth amalgam

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 27, no. 2, 1961, 171-175

TEXT: The problem of the present paper is the extraction of indium from tailings of non-ferrous metallurgy in the form of amalgam in the presence of bismuth. For this purpose, the behavior of In in the ternary system In-Bi-Hg was studied. The equilibrium potential of In-Bi-Hg amalgam was first measured at 0.5 a/m^2, 18°C. The amalgam surface was 2.6 cm^2; platinum was used as cathode; the electrolyte consisted of 35 g/l $InCl_3$ and 10 g/l HCl. The maximum solubility of Bi in Hg being 1.49 wt%, amalgam was prepared in different In/Bi ratios in such a way that the total concentration of the two metals was 1.4%. Fig. 2 shows the change of the potential as a function of the In/Bi ratio. Minima were observed at atomic ratios of 2 : 1 and 1 : 1, corresponding to the compounds In_2Bi and InBi. An examination with pure indium amalgam and In-Bi amalgam with the same indium content confirmed this result. As the maximum deviation of the potential of In-Bi amalgam as com-

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pared to pure In amalgam was 0.022 v, it was assumed that the interaction between In and Bi in Hg would not considerably influence the electrodeposition of indium. This was studied experimentally with amalgam having a ratio of 47 : 53, corresponding to In_2Bi, and 65 : 35, corresponding to InBi. A 15×4 mm platinum plate served as a cathode. The current density was 0.04 a/cm^2, and the terminal voltage 4 v. Amalgam and electrolyte (10 g/l $InCl_3$, 73 g/l HCl) were stirred with 250-300 rpm. Fig. 5 shows the change of the anode potential. It could be seen from this and from the analysis (determination of In in amalgam and electrolyte polarographically, and of Bi by spectrum analysis) that about 99% In may be obtained from an In-Bi amalgam. Electrolysis was finished as soon as the thiourea added to the electrolyte indicated the dissolution of Bi in the electrolyte by a yellow coloring. The electrodeposited indium was investigated by spectrum analysis. It contained 0.018-0.020 wt% of Bi. Fig. 4 illustrates the effect of Bi on the limiting of a 1% In amalgam. The reduction of the limiting current in the presence of Bi may be explained by impeded diffusion of the indium atoms in In-Bi-Hg. There are 5 figures, 1 table, and 9 references: 6 Soviet-bloc and 3 non-Soviet-bloc. The 2 references to English-language publications read as follows: Ludwick Maria Thompson, Indium, New York,

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B101/B208

Electrochemical study .....

1950, 20; W. M. Spicer, G. I. Banick, J. Am. Chem. Soc., 75, 9, 2268, (1953).

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR (Institute of General and Inorganic Chemistry, AS UkrSSR)

SUBMITTED: August 7, 1959

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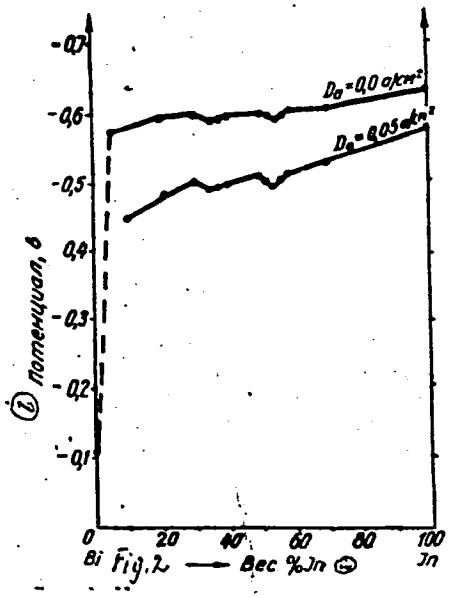
Electrochemical study .....

Fig. 2. Change of anode potential as a function of the In/Bi ratio. Legend: a) wt% of In; b) potential, v.



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Electrochemical study .....

Fig. 4. Effect of Bi on the limiting current of a 1% In amalgam. Legend: 1) 1% In amalgam; 2) 1% In + 47 wt% of Bi referred to In; 3) 1% In + 65 wt% of Bi referred to In. *) Beginning of the dissolution of Bi in the solution; a) potential, v; b) current density, ma/cm^2.

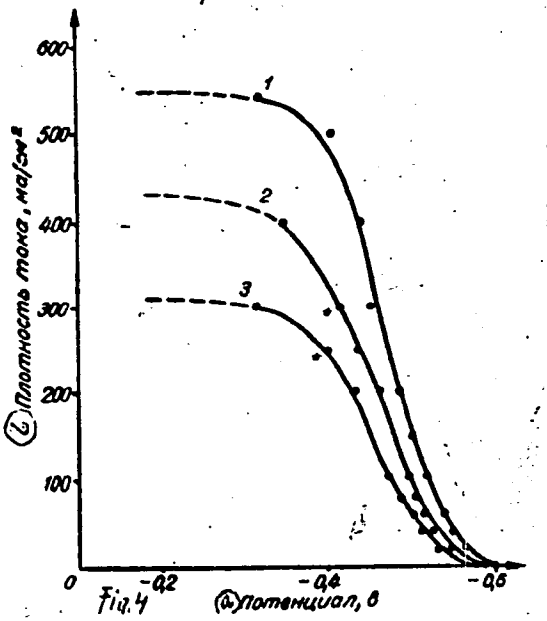

Fig. 4

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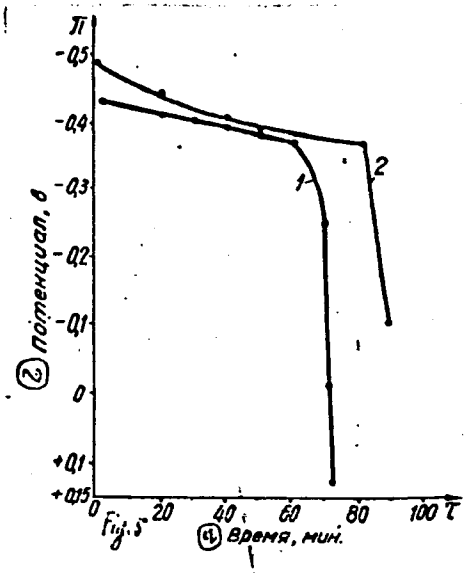
Electrochemical study .....

Fig. 5. Change of anode potential in electrolytic decomposition of In-Bi amalgam.
Legend: 1) In/Bi ratio = 65 : 35; 2) ratio 47 : 53; a) time, min; b) potential, v.



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D223/D305

22434

AUTHORS: Nizhnik, A.T., and Bykova, M.I.

TITLE: Electrochemical investigation of the system of gallium-zinc-mercury

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 7, 1961, 1554 - 1561

TEXT: Metallic gallium obtained from residues during Pb and Zn production always contain the latter as an impurity. The difference in the potential of zinc (-0.76 v) and gallium (-0.52 v) suggest the possibility of electrolytic separation of the two metals. The present work deals with the possibility of electrolytically separating zinc and gallium and also with the optimum conditions under which this separation can take place. To carry out the investigation metallic Ga, Zn and Hg were used of following purities: Ga = 99.99 % with trace impurities of Al, Zn, Pb and Cu: Zn - 99.999 %; mercury was purified by method employed in polarography (polaro-

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graphic analysis). The polarization curves were obtained by the usual compensating method, the measurements taken on the potentiometer system M-1. The proportional volume ratio of amalgam and solution was 1:10. All measurements were done at room temperature ($\sim 20^{o}C$). The gallium estimation was done colorimetrically. The data obtained on current density and its effect on the cathodic and anodic potential of zinc and gallium amalgam in 1 N H_2SO_4 is given in Fig. 1 of 1N HCl in Fig. 2. From this data it may be seen that the polarization curves of zinc and gallium amalgam in H_2SO_4 and HCl solutions are similar. Zn is seen to be more positive than gallium on the cathodic side and the cathodic potential of Zn/Hg at current density of 100 mA/cm^2 is equal to -1.5 v while Ga/Hg potential was -1.6 v (in respect of N.K.C.). Similar relations hold for the anodic process where for the same current density, the zinc potential was 0.74 v and gallium -0.47 v (in respect of N.K.C.). Here zinc is seen to be more electronegative than gallium. These relations suggested the possibility of electrolytical separation of two metals. The author then briefly describe their in-

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Electrochemical investigation ...

vestigation on stability of Zn and Ga amalgams in respect of H_2SO_4. The results show that the gallium amalgam is more stable than zinc. After 3 hours the transfer of gallium into 2N H_2SO_4 solution is 0.5 % hence the small solubility of Ga amalgam in H_2SO_4 explains the absence of gallium on the Hg cathode. Composite polarization curves, of Zn and H_2 and Ga and H_2 were recorded as well as the individual curves. This is done by association of part of the total current with the deposit of one of the elements under investigation, and the current density is worked out from the material balance of cathode and the composition of products. This approach is adopted when there are several elements present and current is associated with each one. As long as experiments for the potential determination and electrode balance are carried out under same conditions, the above approach is valid. The electrolyte used was a 1N. H_2SO_4 solution containing 3.33 g/l of Zn and 2.33 g/l of Ga. The results indicate that the maximum quantity of gallium on cathode was 0.4 wt. %. From the individual polarization curves of zinc and gallium, it was shown that Zn emerges at potential - 1.1v

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and gallium at -1.45 v giving a difference of 0.35 v which is sufficient for the complete separation of the metals. The actual separation experiment was investigated on a solution of 50 mls containing 0.05 gr Ga and 0.5 gr Zn; cathode 4 mls of Hg with surface 8 cm^2; Anode Pf foil with surface 48 mm^2; stirring rate 200 revs/min; temperature 20°C. The results obtained are given in tabulated and graphic form. With the increase in acidity, starting with 2N H_2SO_4 and higher, the codeposition of Ga with Zn in an amalgam falls sharply. A similar process occurs in the HCl solution. The increase in current density increases the codeposition. The best conditions for separating were found to be: Minimum current density with maximum acidity, i.e. D_k = 0.03 - 0.05 A/cm^2 and 2N sol. of H_2SO_4. The time effect on the cathode potential is also shown. The deposition of Zn proceeded initially at potential 1.29-1.32 v and after 62 mins. the entire Zn was deposited and immediately followed by a vigorous evolution of hydrogen with traces of Ga. Practically 100 % of the Zn was deposited using 2N H_2SO_4, 0.03 A/cm^2 Zn: Ga = 50:1 giving a current yield of Zn 65-70 % and the

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Electrochemical investigation ... S/080/61/034/007/009/016
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amalgam contained only 15γ/50 mls of Ga. There are 6 figures, 3 tables and 12 references: 8 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: L. Dennis, A. Bridgeman, J.Am.Chem. Soc., 40, 15, 31, 1918; T. Richards, A. Bojer, J. Am. Chem. Soc., 43, 275, 1921; W.M. Latimer, The oxidation States of the Elements and their Potentials in Aqueous Solutions, N.Y., 1938.

SUBMITTED: July 4, 1960

Fig. 1. Effect of current density on anodic and cathodic potentials of Zn and Ga amalgams in 1N solution of H_2SO_4.

Legend: A - current density (mA/cm^2); B - potential (v); 1,2,3 - anodic curves corresponding to 1,2,3 gr. atoms met/l of Hg 4,5,6 - cathodic curves corresponding to 1,2,3 gr. atom/l Hg. I - gallium, II - zinc.

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BYKOVA, M.I., inzh.; GORODYSKIY, A.V., inzh.

Electrolytic zinc plating from fused salts. Sbor. trud. TSNIICHM no.34:58-60 '63. (MIRA 17:4)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

ACCESSION NR: AP4032505 S/0080/64/037/004/0899/0901

AUTHORS: Gorody*skiy, A.V.; By*kova, M.I.

TITLE: Electroplating cadmium from salt melts

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 4, 1964,899-901

TOPIC TAGS: electroplating, cadmium, technology, plating rate, corrosion resistance, mechanical property, ductility, density, cohesion, molten cadmium chloride electrolyte, electrolysis, throwing power,

ABSTRACT: This article relates to electroplating steel articles with liquid cadmium. After polishing, degreasing, and pickling in 250 g/l HCl solution St-20, 30KhGSA and 30KhGSNA steel pieces were electroplated in molten $CdCl_2$ electrolyte containing 5-8% $AlCl_3$, which was used to improve the wettability of the steel. Ammonium, lead, zinc, and magnesium chlorides were found to be less effective as wetting agents. The throwing power was increased by periodically reversing the current, and optimum conditions were obtained by electrolysis in an electrolyte containing 67% by weight anhydrous $CdCl_2$ and 33% by weight KCl, an anode of 90-92% Cd and 8-10% Al, and at a temperature

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of 420 to 450C. The recommended current density is 100 amp/dm^2 for direct current and 10—20 amp/dm^2 for reversed current with a half-cyle time of 1 sec. The plating rate was 0.5 microns/sec, which is 100 times that of platings from aqueous solutions; deposits of up to 20 microns were obtained. It was found that the deposits have corrosion resistance comparable to deposits obtained from conventional solutions, and have good mechanical properties such as ductility, density, and adhesion to the base metal. Orig. art. has: 1 table and 1 formula.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of General and Inorganic Chemistry, AN UkrSSR)

SUBMITTED: 20Jul62 ATD PRESS: 3080 ENCL: 00

SUB CODE: MM NR REF SOV: 005 OTHER: 002

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L 5284-66 EWT(m)/EWP(i)/EWP(t)/EWP(b) JD

ACC NR: AP5022037 SOURCE CODE: UR/0286/65/000/014/0104/0104

AUTHORS: Delimarskiy, Yu. K.; Gorodyskiy, A. V.; Bykova, M. I.

ORG: none

TITLE: A method for electrolytic cadmium-plating. Class 48, No. 173087

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 104

TOPIC TAGS: cadmium, electrolysis, electrolyte, metal plating, cadmium chloride, sodium chloride

ABSTRACT: This Author Certificate presents a method for electrolytic cadmium-plating. To prevent hydrogenation and formation of dense sediments capable of firm adhesion to the base metal, the deposition from cadmium chloride and sodium chloride is employed at the current density on the order of 100 a/dm^2 and the temperature of 420-450C.

SUB CODE: MM/ SUBM DATE: 24Dec62/ ORIG REF: 000/ OTH REF: 000

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M.P.; LEONT'YEV, F.L., nachal'nik; MALINOVSKIY, M.S., professor, deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, zaveduyushchiy kafedroy.

So-called physiological weight loss in newborn put on breast feeding 20-30 minutes after birth. Vop.pediat. 21 no.4:54-56 Jl-Ag '53. (MLRA 6:10)

1. Akusherako-ginekologicheskoye otdeleniye TSentral'noy klinicheskoy bol'nitsy im. N.A.Semashko (for Leont'yev). 2. Kafedra TsIU (for Malinovskiy).
(Infants--Nutrition) (Body weight)

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BYKOVA, M.S.

Stratigraphy of lower Carboniferous deposits in the western part of Central Kazakhstan. Izv.AN Kazakh.SSR Ser.geol.no.9:125-136 '45. (Kazakhstan--Geology, Stratigraphic) (MLRA 9:6)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

MIROSHNICHENKO, B.Ye.; BYKOVA, M.S., kandidat geologo-mineralogicheskikh nauk, otvetstvennyy redaktor; FUM, A.I., redaktor; BAZHMINA, G.N., tekhnicheskiy redaktor; SHCHERBAKOV, A.V., tekhnicheskiy redaktor

[Carboniferous lamellibranchia mulluska of the Karaganda Basin] Kamennougol'nye plastinchatozhabernye molliuski Karagandinskogo basseina. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR, 1953. 77 p. (MIRA 9:12)

(Karaganda Basin--Lamellibranchiata, Fossil)

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BYKOVA, M.S.; KUSHEV, G.L.; MEDOYEV, G.Ts.; SHLYGIN, Ye.D.; PETRENKO, A.A.; RITENBERG, M.I.

Concerning A.A.Petrenko and M.I.Ritenberg's article "Conditions of the formation and the age of carboniferous deposits of the Karaganda series in the Karaganda Basin." Izv.AN SSSR. Ser.geol. no.4:125-131 Jl-Ag '53. (MLRA 6:8)

(Karaganda Basin--Geology) (Geology--Karaganda Basin) (Petrenko, A.A.) (Ritenberg, M.I.)

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BYKOVA, M.S.

Stratigraphy and formation of coal-bearing depressions of the north-eastern part of central Kazakhstan. Trudy Lab.geol.ugl. no.2:140-153 '54. (Kazakhstan--Coal geology) (MLRA 8:7)
(Kazakhstan--Geology, Stratigraphic)

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BORSUK, B.I.; BYKOVA, M.S.

Aleksei Mikhailovich Simorin; obituary. Izv.AN Kazakh.SSR.Ser. geol. no.21:131-136 '55. (MLRA 9:8)
(Simorin, Aleksei Mikhailovich, 1902-1955)

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SIMORIN, Aleksey Mikhaylovich; BYKOVA, M.S., kandidat geologo-mineralogicheskikh nauk, otvetstvennyy redaktor; KOZLOVA, I.V., redaktor; KOROTKOVA, Ye.A., redaktor; ROROKINA, Z.P., tekhnicheskiy redaktor

[Stratigraphy and Brachiopoda of the Karaganda Basin] Stratigrafiia i brakhiopody Karagandinskogo basseina. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR, 1956. 299 p. (MLRA 10:1)
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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M. S. Doc Geol-Min Sci -- (diss) "Stratigraphy and ~~phase~~ fossil complexes of the upper Devonian and lower Carboniferous periods of Central Kazakhstan." Alma-Ata, 1957. 38 pp with charts; 3 sheets of tables (Acad Sci Kazakh SSR Inst of Geol Sci), 140 copies (KL, 11-58, 114)

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BYKOVA, M.S.

LAVROV, Viktor Viktorovich; POGOZHEV, A.S., redaktor; BYKOVA, M.S., kandidat geologo-mineralogicheskikh nauk, otvetstvennyy redaktor; ALFEROVA, P.F., tekhnicheskiy redaktor.

[Marine Paleogene of the Transural plain and its continental equivalents] Morskoi paleogen zaural'skikh ravnin i ego kontinental'nye ekvivalenty. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1957. 115 p. (MIRA 10:5)

(Siberia—Geology)

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BYKOVA, M.S.; KAZANLI, D.N.

Relationship between the gravimetric field of Central Kazakhstan and the early Hercynian lithological facial regions. Izv. AN Kazakh SSR. Ser. geol. no.2:67-93 '57. (MLRA 10:8)
(Kazakhstan--Geology, Stratigraphic)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307920005-5

BYKOVA, M.S.

Stratigraphic plan of lower Carboniferous deposits in Central Kazakhstan. Izv. AN Kazakh. SSR. Ser. geol. no.4:17-29 '57.
(Kazakhstan--Geology, Stratigraphic) (MIRA 11:3)

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BYKOVA, M.S., kand.geol.-mineral.nauk.

Early Hercynian cycle of development and lithological formations of the upper Devonian and lower Carboniferous of central Kazakhstan. Vest.AN Kazakh.SSR 13 no.9:14-31 S '57. (MIRA 10:10)
(Kazakhstan--Geology, Stratigraphic)

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BYKOVA, M.S.

SATPAYEV, K.I.; BORUKAYEV, R.A.; AKHMEDSAFIN, U.M.; BOK, I.I.; KUSHEV, G.L.; SERGIYEV, N.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; MONICH, V.K.; LOMONOVICH, I.I.; LAVROV, V.V.; MEDOYEV, G.TS.; NOVOKHATSKIY, I.P.; BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; KOLOTILIN, N.F.; ZHILINSKIY, G.B.; KAYUPOV, A.K.; KAZANLI, D.N.; SATPAYEVA, T.A.; ABDULKABIROVA, M.A.; GAZIZOVA, K.S.; VEYTS, B.I.; KHAYRUTDINOV, D.Kh.; MUKHAMEDZHANOV, S.M.; CHOLPANKULOV, T.Ch.; PARSHIN, A.V.; TAZHIBAYEVA, P.T.; YANULOVA, M.K.; BYKOVA, M.S.; VOLKOV, A.N.; BOLGOV, G.N.; MITRYAYEVA, N.M.; CHOKABAYEV, S.Ye.; KUNAYEV, D.S.; YARENSKAYA, M.A.; REBROVA, T.I.

Tireless explorer of the depths of the earth's crust; on the 65th birthday and 40th anniversary of the scientific engineering activities of Academician M.P. Rusakov. Vest. AN Kazakh. SSR 13 no.12:96-97 D '57. (MIRA 11:1)

(Rusakov, Mikhail Petrovich, 1892-)

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BORUKAYEV, R.A., akad.; BORSUK, B.I.; KELLER, B.M.; AYTALIYEV, Zh.A.; BOGDANOV, A.A.; BUBLICHENKO, N.L.; BYKOVA, M.S.; GALITSKIY, V.V.; MEDOYEV, G.Ts.; MYAGKOV, V.M.; ORLOV, I.V., RUKAVISHNIKOVA, T.B.; SHLYGIN, Ye.D.; NIKITIN, I.F., uchenyy sekretar'; SENKEVICH, M.A., uchenyy sekretar'.

[Resolutions of the Conference on the Unification of Stratigraphic Charts of the Pre-Paleozoic and Paleozoic of Eastern Kazakhstan] Rezoliutsiia po unifikatsii stratigraficheskikh skhem dopaleozoia i paleozoia vostochnogo Kazakhstana. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1958. 36 p. (MIRA 11:12)

1. Soveshchaniye po unifikatsii stratigraficheskikh skhem dopaleozoya vostochnogo Kazakhstana. Alma-Ata, 1958. 2 Akademiya nauk Kazakhskoy SSR, predsedatel' soveshchaniya po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya vostochnogo Kazakhstana (for Borukayev). 3. Zam.predsedatelya soveshchaniya po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya vostochnogo Kazakhstana; Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (for Borsuk). 4. Zam.predsedatelya soveshchaniya po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya vostochnogo Kazakhstana; Geologicheskiy institut Akademii nauk SSSR (for Keller). 5. Ministerstvo geologii i okhrany nedr Kazakhskoy SSR (for Aytaliyev, Myagkov). 6. Moskovskiy gosudarstvennyy universitet im. M.V.

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BORUKAYEV, R.A.---(continued) Card 2.
Lomonosova (for Bogdanov). 7. Altayskiy gorno-metallurgicheskiy nauchno-issledovatel'skiy institut Akademii nauk Kazakhskoy SSR (for Bublichenko). 8. Institut geologicheskikh nauk Akademii nauk Kazakhskoy SSR (for Bykova, Galitskiy, Medoyev, Shlygin, Nikitin). 9. TSentral'no-Kazakhstanskoye geologicheskoye upravleniye (for Orlov). 10. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye (for Rukavishnikova, Senkevich).
(Kazakhstan--Geology, Stratigraphic)

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SATPAYEV, K.I.; POLOSUKHIN, A.P.; BAISHEV, S.B.; CHOKIN, Sh.Ch.; BORUKAYEV, R.A.; AKHMEDSAFIN, U.M.; KUSHEV, G.L.; SHCHERBA, G.N.; MONICH, V.K.; MEDOYEV, G.TS.; LAVROV, V.V.; BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; ZHILINSKIY, G.B.; KAYUPOV, A.K.; KAZANLI, D.N.; KOLOTILIN, N.F.; MUKHAMEDZHANOV, S.M.; SATPAYEVA, T.A.; VEYTS, B.I.; GAZIZOVA, K.S.; CHOLPANKULOV, T.Ch.; PARSHIN, A.V.; BYKOVA, M.S.; MITRYAYEVA, N.M.; VOLKOV, A.N.; CHAKABAYEV, S.Ye.; YARENSKAYA, M.A.; KHAYRUTDINOV, D.Kh.

On the 60th anniversary of the birth of I.I. Bok, Academician of the Academy of the Kazakh S.S.R. Vest.AN Kazakh.SSR 14 no.10:95-96 O '58. (MIRA 11:12)

(Bok, Ivan Ivanovich, 1898-)

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LAVROV, Viktor Viktorovich; BYKOVA, M.S., kand.geologo-mineral.nauk, otv.red.; SUVOROVA, R.I., red.; ALEKROVA, P.F., tekhn.red.

[Continental Paleogene and Neogene in Aral-Siberian Plains; stratigraphic, lithological, and paleontological conditions] Kontinental'nyi paleogen i neogen Aralo-Sibirskikh ravnin; stratigrafiia, litologiia i paleogeograficheskaia obstanovka. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1959. 229 p. (MIRA 13:2)

(Aral Sea region--Geology) (Siberia--Geology)

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AVROV, P.Ya.; AYTALIYEV, Zh. A.; AUEZOV, M.O.; AKHMEDSAFIN, U.M.; BATISHCHEV-TARASOV, S.D.; BAZANOVA, N.U.; BAISHEV, S.B.; BAYKONUROV, A.B.; BEKTUROV, A.B.; BOGATYREV, A.S.; BOK, I.I.; BORUKAYEV, R.A.; BUBLICHENKO, N.L.; BYKOVA, M.S.; ZHILINSKIY, G.B.; ZYKOV, D.A.; IVANKIN, P.F.; KAZANLI, D.N.; KAYUPOV, A.K.; KENESBAYEV, S.K.; KOLOTILIN, N.F.; KUNAYEV, D.A.; KUSHEV, G.L.; L[illegible], [illegible]; MASHANOV, O.Zh.; MEDOYEV, G.TS.; MONICH, V.K.; MUKANOV, S.; MUSREPOV, G.; MUKHAMEDZHANOV, S.M.; PARSHIN, A.V.; POKROVSKIY, S.N.; POLOSUKHIN, A.P.; RUSAKOV, M.P.; SERGIYEV, N.G.; SEYFULLIN, S.Sh.; TAZHIBAYEV, P.T.; FESENKOV, V.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; CHOKIN, Sh.Ch.; CHOLPANKULOV, T.Ch.

Sixtieth birthday of Academician Kanysh Imantaevich Satpaev. Vest. AN Kazakh. SSR 15 no.4:58-61 Ap '59. (MIRA 12:7)
(Satpaev, Kanysh Imantaevich, 1899-)

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