"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

ACCESSION NR: AT4020799 S/2613/63/000/023/0109/0136

AUTHOR: Kink, R. A.; Liyd'ya, G. G.

TITLE: Some peculiarities of photoluminescence in NaI-Tl and NaI-In

SOURCE: AN EstSSR. Institut fiziki i astronomii. Trudy*, no. 23, 1963. Issledovaniya po lyuminestsentsii (Research in luminescence), 109-136

TOPIC TAGS: luminescence, photoluminescence, exciton, phosphor, crystalline phosphor, alkali halide luminescence, NaI-Tl luminescence, NaI -In luminescence, photoluminescence excitation wavelength

ABSTRACT: The authors have studied luminescence in NaI-Tl and NaI-In phosphors, excited with ultraviolet radiation which was absorbed in the host crystal, as a function of the excitation wavelength, intensity and time, as well as during simultaneous irradiation with red light. Under stationary conditions, the saturated quantum yield of luminescence due to the activator, both in the exciton band and when excited with shorter wavelengths corresponding to band-to-band transitions, approaches the quantum yield in the activator absorption band when $^1S_0 - {}^3P_1$ transitions are excited. In this respect, NaI-phosphors are similar to the other activated iodides (KI-Tl, KI-In, RbI-Tl, CsI-Tl heavily doped). The kinetics of NaI-Tl luminescence differ from that of KI-Tl and RbI-Tl. When excited,

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ACCESSION NR: AT4020799

luminescence rises in the exciton band slowly, and only 15% of the saturated intensity is built up momentarily (in less than 0.01 seconds). The intensity of the instantaneous component is a linear function of the intensity of the excitation; the intensity of the inertial component is a superlinear component of the same parameter. If an NaI-Tl crystal is excited in the longwave-band region of the exciton band (where the exciting light penetrates to a depth greater than 1 micron), the kinetics of NaI-Tl approach those of KI-Tl. This peculiarity of NaI-Tl and NaI-In phosphors is also attenuated by a drop in temperature. With excitation at 100K, the luminescence build-up remains slow in the band-to-band region, whereas with exciton-excitation the inertial component is reduced to 40% (NaI-Tl) or disappears altogether (NaI-In). Apparently, two effects are present here: 1) Near the surface, there are defects in which the excitons are dissociated into electrons and holes that later recombine and give rise to a slow luminescence build-up. 2) A small energy interval between the exciton band and the conduction band may cause autoionization in the excitons, with the same result. At 100K, band-to-band excitation and exciton-excitation are individualized, because the exciton band and continuous absorption overlap to a smaller extent. The shape of the excitation spectrum of phosphorescence proves that the exciting light quanta, the energy of which corresponds to the "shoulder" in the absorption spectrum of NaI (5.7-5.8 electron volts), create electrons and holes in the crystal. In the peak region of the fundamental absorption area (5.45 - 5.65 electron volts), the energy of the absorbed quanta is conveyed to the luminescence center chiefly by "exciton

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ACCESSION NR: AT4020799

impact". "The authors express their gratitude to Ch. B. Lushchik for proposing the subject and discussing the work, to T. Soovik for his useful remarks, and to O. M. Konovalov and A. N. Panova for supplying the monocrystals." Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Institut fiziki i astronomii AN EstSSR (Institute of Physics and Astronomy, AN EstSSR)

SUBMITTED: 12Jan63 DATE ACQ: 07Apr64 ENCL: 00

SUB CODE: PH NO REF SOV: 028 OTHER: 014

3/3

Card

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

ACCESSION NR: AP5015595 UR/0510/64/000/026/0112/0120

AUTHOR: [illegible]; Ivanov, A. I.

TITLE: Absorption spectra of lead halide salts in the region from 2 to 9.5 eV

SOURCE: AN SSSR. Institut fizicheskoy astronomii. Trudy, no. 26, 1964 Issledovaniya po lyuminestsentsii (Research on luminescence), 112-120

TOPIC TAGS: absorption spectrum, lead compound, halide salt, thin film, exciton, absorption band

ABSTRACT: The authors have measured the absorption spectrum of thin layers of $PbCl_2$, $PbBr_2$, and PbI_2 sublimated on mica plates. Unlike earlier investigations, the spectrum measurement is extended in this book to 9.5 eV energy. The purpose of the investigation was to determine the energy spectrum of various elementary excitations of the crystal and to check whether the energy of anionic excitons is larger

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L 60711-65

ACCESSION NR: AP5013536

[illegible] the energy of the davydov exciton in ionic crystals containing Pb^{++}. The results show that the lower energy absorption bands in $PbCl_2$ (4.55 eV) and in $PbBr_2$ ([illegible]) are correlated with the absorption bands and the phosphors $PbCl_2$-Cu and $PbBr_2$-Cu, corresponding to the $^1S_0 \rightarrow {}^3P_1$ transitions in the Pb^{++} ion. In view of this correlation, the bands in $PbCl_2$ and $PbBr_2$ are interpreted as davydov excitons. This makes $PbCl_2$ and $PbBr_2$ suitable objects for the investigation of the interaction of davydov excitons in phosphors. The authors thank Ch. B. Lushchik for a discussion of the [illegible] and V. Ya. Davydov and G. Savikhina for help with the measurements. [illegible] 4 figures.

ASSOCIATION: Institut fizicheskoy [illegible] Akademii nauk ESSR (Institute of Physics and Astronomy, AN ESSR)

SUBMITTED: 18Jun63 ENCL: 00 SUB CODE: OP

NR REF SOV: 011 OTHER: 015

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 65010-65 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5015546 UR/2613/64/000/026/0216/0219

AUTHOR: Kirk, R. A.; Lilly, G. D.; Nazarov, A. A.; Sobolev, N. A.

TITLE: Concentration dependence of the photoluminescence and radioluminescence yields of KI-Tl

SOURCE: AN BelSSR. Institut fizicheskoy astronomii. Trudy, no. 26, 1964. Issledovaniya po luminessentsii (Research on luminescence), 216-219

TOPIC TAGS: photoluminescence, radioluminescence, potassium iodide, phosphor, concentration dependence

ABSTRACT: The authors measured the dependence of the luminescence yield on the concentration of activator in KI:Tl in which the excitons or electron-hole pairs were produced optically or by α-particle bombardment. The crystals were grown by the Kyropoulos method. The luminescence quantum yield was measured with a vacuum monochromator by a method described elsewhere (Opt. i spektr., v. 18, 1965). Plots are presented for the concentration dependence of the energy yield of

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ACCESSION NR: AP5013586

The stationary luminescence when excited in the maximum of the exciton absorption band (5.65 eV) and when excited in the region where electron-hole pairs are produced (8.6 eV). In the former case the plot is nearly a straight line with deep-sun entry slope, showing saturation when the concentration of the activator exceeds 10-1 molar per cent. The differences in the concentration dependence of the exciton and the electron-hole luminescence can be attributed to the fact that the ratio of the effective cross sections for capture by the luminescence center and by the competing defects is much smaller for excitons than for electrons and holes. In the case of a particle excitation, the dependence of the luminescence yield on the concentration does not coincide with the dependence of the photoluminescence for either interband excitation or excitation in the exciton band, but is closer to the latter. Although this can be interpreted as being due to the appreciable role of exciton processes in the luminescence produced in the latter case, it is established that the conditions for optimal and a excitation differ greatly. Orig. art. has: 1 figure.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 6000-65

ACCESSION NR: AP5015946

ASSOCIATION: Institut [illegible] Astronomii AN SSSR (Institute of [illegible] and Astronomy, AN SSSR)

SUBMITTED: 10Jun64 ENCL: 00 SUB CODE: OP

NO REF SOV: 001 OTHER: 001

Card 3/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 2832-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AT5021777 UR/2613/64/000/028/0080/0092

44,55 44,55 56 50 B+1

AUTHORS: Gorbachev, B. N.; Kink, R. A.; Liyd'ya, G. G. 44,55

TITLE: On the dependence of the effectiveness of the exciton and electron-hole energy transfer mechanisms in alkali iodides on the intensity of excitation

27 27

SOURCE: AN EstSSR. Institut fiziki i astronomii. Trudy, no. 28, 1964. Issledovaniya po lyuminestsentsii (Research on luminescence), 80-92

TOPIC TAGS: luminescence property, luminescence research, luminescence, luminescence spectrum, luminescence yield, luminescent crystal, ultraviolet radiation, phosphor

21,44,55

ABSTRACT: The dependence of the luminescence yield on the intensity of host lattice excitation with monochromatic ultraviolet radiation in certain alkali iodides activated with thallium (NaI, KI, RbI, and CsI) was determined. The investigation was a continuation of the work of E. R. Il'mas, G. G. Liyd'ya, and Ch. B. Lushchik (Opt. i spektr. (v pechati)). Monocrystals of the phosphors were grown after the method of Kiropulos; all measurements were carried out in vacuum. Quantum yields of luminescence as a function of excitation energy were determined, and the results are shown graphically in Fig. 1 on the Enclosure. It was found that the intensity of the slow luminescence component (attributed to the electron-hole energy transfer

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L 2832-66

ACCESSION NR: AT5021777 6

mechanism) increased with increasing intensity of excitation, and that intensity of the fast component is independent of the intensity of excitation. The x-ray luminescence of CsI - Tl was also studied, and it was found that the efficiency of radioluminescence is independent of the intensity of the excitation radiation. The authors thank Ch. B. Lushchik for suggesting the investigation and for his help in evaluating the experimental results. Orig. art. has: 2 tables and 6 graphs.

ASSOCIATION: Institut fiziki i astronomii, AN EstSSR (Institute for Physics and Astronomy, AN EstSSR) 44,55

SUBMITTED: 03Jan64 ENCL: 01 SUB CODE: SS, OP

NO REF SOV: 017 OTHER: 006

Card 2/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 2832-66

ACCESSION NR: AT5021777 ENCLOSURE: 01

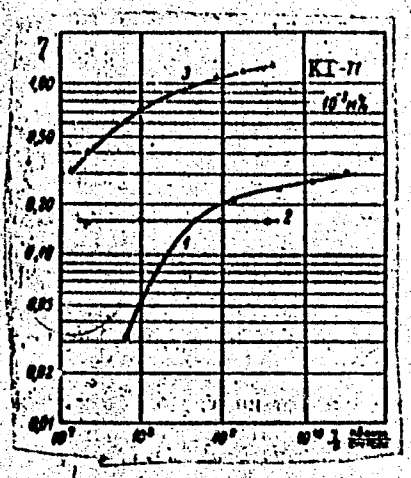

Fig. 1. Dependence of luminescence quantum yield on the intensity of excitation for excitation with energy quanta 10.15 ev (1), and 16.7 ev (2,3), filter SZS-18; 1,3 - quantum yield of slow component, 2 - quantum yield of fast component

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Card 3/3

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L 5454-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACC NR: AP5025095 SOURCE CODE: UR/0368/65/003/003/0276/0278

AUTHORS: Kink, R. A.; Liyd'ya, G. G.

ORG: none

TITLE: Photoluminescence of alkali iodides activated by thallium and indium [Presented at the 12th Conference on Luminescence in L'vov January 1964]

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 3, 1965, 276-278

TOPIC TAGS: photoluminescence, luminescence research, luminescence spectrum, luminescence crystal, potassium iodide, rubidium iodide

ABSTRACT: The photoluminescence of KI and RbI activated by Tl and In respectively was investigated. The luminescence was produced by excitation in the exciton absorption region (~ 5.5 ev) and the vacuum ultraviolet region. The experimental results are presented graphically (see Fig. 1). It is concluded that electron hole luminescence bears a pure recombination character, usually associated with a subsequent localization at the luminescence centers. By optical studies only it is impossible to determine whether hole localization occurs first, followed by

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L 5454-66

ACC NR: AP5025095

18

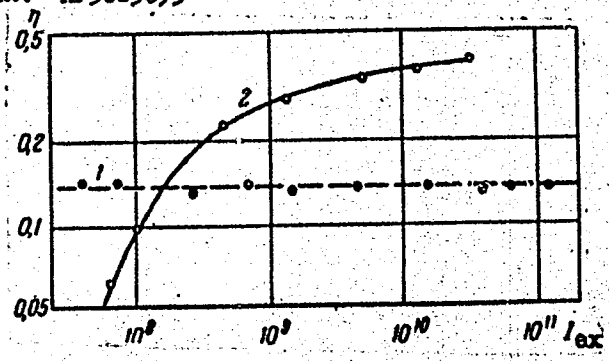

Fig. 1. Dependence of stationary luminescence yield, η of KI - Tl phosphor for exciton excitation (1, E_{ex} = 5.6 ev) and electron-hole excitation (2, E_{ex} = 10, 15 ev) on the intensity of excitation. I_{ex} (quanta·cm^{-2}·sec^{-1}) C_{Tl} = 5 x 10^{-2} mole % in crystal, filters SZhS-18 FS - 1 and neutral NS-8 and NS-9, T = 295K, yield at E_{ex} = 4.35 ev is taken as unity.

electron recombination, or vice versa. The exciton luminescence is best described as exciton annihilation of excitons migrating to the luminescence centers and subsequent energy transfer to the latter, as reported by Ch. B. Lushchik[44,55], N. Ye. Lushchik[44], G. G. Livd'ya[44,55] and L. A. Teyss[44,55] (Trudy IFA AN ESSR, [55] v. 6, 63, 1957). The authors thank Ch. B. Lushchik for help received in evaluating the experimental results. Orig. art. has[44,55]: 3 graphs.

SUB CODE: OP, SS SUBM DATE: 05Jan65/ ORIG REF: 010/ OTH REF: 002

Card 2/2 Md

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKA, W.

Our stands need care. p. 7.

LAS POLASKI. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland. Vol. 32, no. 8, Apr. 1958.

Monthly List of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960. Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKEL'SHTEYN, B.V.

2) A Ya Boyarskiy - The Differential Equations of Expanded Reproduction
3) L V Kantorovich - Optimal Planning and Economic Indicators
4) A A Konyus - Mathematical Analysis of the Organic Composition of Production
5) N I Vedute - Mathematical Analysis of Rates and Proportions in the National Economy (Primarily in Determining the Economic Efficiency of Capital Investment)
6) D I Flyukhin, N P Nazarov - Price Relationships in Expanded Reproduction
7) L N Dudin and V S Yakunin - Statistical [sic] and Dynamic Models of a Socialist National Economic Balance in Physical Terms

e. Evening Session - 15 December 1959, 1600 hours
II. The Theory of Linear Programming

1) G S Rabinshteis - Review of Methods for the Solution of Linear Programming Problems
2) A L Lur'ye - Algorithmic Solutions of Transport Problems Through Approximation by Means of Hypothetically Optimal Plans
3) Ya P Gerchuk - The Algebra of Linear Programming
4) B V Kinkel'shteyn - Recommendation for a Method of Re-computing Matrices of Total Input Coefficients under Conditions of Changing Technology.
5) N Chetyrkin - A Practical Interpretation of Kantorovich's Controlling Multipliers
6) Yitov and Borsov - Linear Programming Methods and Material Supply

d. Morning Session - 16 December 1959, 1000 hours
III. Economic Models and Dynamic Programming

1) V V Novozhilov - Mathematical Models of the National Economy in Bourgeois Economics and a Critique Thereof
2) Z N Mikhalevskiy - Mathematical Methods of Determining the Maximum Efficiency of Capital Investment
3) V V Chelyapatsch - Concerning the Economic Cycle Models and Dynamic Economic Models of Bourgeois Econometricians
4) V V Trigubenko - Problems in the Application of Dynamic Programming in Economic Research Abroad
5) L Gor'kov - Single-Product Economic Models and the Analysis of Certain Economic Indicators
6) V I Romanovskiy - The Dynamic Programming Method and Its Use in Economics
7) D I Operin - The Unbalding (stvorniaya) Matrix as a Model for the Application of Mathematical Methods in Long-Term Economic Planning

e. Evening Session - 16 December 1959, 1600 hours
IV. The Transportation Problem

1) D I Volovoy - Finding the Most Suitable Assignment of Various Types of Fleet Vessels to Lines
2) A N Paymail'berg - Extremital Methods in Economic Research on the Optimum Spatial Distribution of Projects
3) Z P Ramyantseva - The Application of Linear Programming to Air Transport Economics

Report submitted at the Soviet Conference on Problems in the Application of Mathematical Methods in Economic Research, Leningrad, 19-21 January 1960.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKER, I. I.

PROCESSES AND PROPERTIES INDEX

14410* **Changes of Chemical and Mechanical Properties of Chlorinated Polyvinyl at Elevated Temperatures.** (In Russian.) A. A. Berlin and I. I. Kinker, *Zhurnal Prikladnoi Khimii* (Journal of Applied Chemistry), V. 24, Mar. 1951, p. 308-313.

Above were experimentally investigated at 80-130°C. Effects of basic reagents on chemical structures and mechanical properties were also studied. Data are tabulated and charted and results discussed.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KETSKHOVELI, E.N.; KINKLADZE, D.Ch.

Chlorophyll a and chlorophyll b content of the bark and wood of some trees. Soob. AN Gruz. SSR 27 no.5:597-600 N '61. (MIRA 15:1)

1. AN Gruzinskoy SSR, Institut botaniki, Tbilisi. Predstavleno akademikom L.I. Dzhaparidze.

(Chlorophyll)
(Bark)
(Wood--Chemistry)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

S/251/62/028/004/002/003
I042/I242

AUTHORS: Kotskhoveli, E.N., Kinkladze, D.Ch., Khakhutashvili, Ts. Ye.

TITLE: The dynamics of the chlorophyll in bark and leaves in connection with its transfer to the bark

PERIODICAL: Akademiya nauk Gruzinskoy SSR. Soobshcheniya, v.28, no.4, 1962, 455-460

TEXT: Previous work in the field is surveyed. The problem of the dynamics of chlorophyll and yellow phytochromes, as well as the distribution of phytochromes among the various organs require further study. The present investigation is the continuation of an earlier study by the authors. The following plants were considered: 1) Quercus castaniifolia, 2) Rubus sp., 3) Ligustrum lucidum, 4) Ilex colchica. Samples for measuring the chlorophyll content were prepared

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

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I042/I242

The dynamics of the chlorophyll...

by Sapozhnikov's method (Ref. 8: Tr. Bot. in-ta im. V.L. Komarov, v.8, 1951). The density of acetone-alcohol extracts of chlorophyll was measured with the ФЭК-М (FEK-M) unit. It was found that in Autumn the chlorophyll of leaf-shedding trees migrates from the leaves to the bark. Evergreen plants and those leaf-shedding plants which sometimes keep their green leaves through the Winter often fail to display the relation between the depletion of chlorophyll in the leaves and its simultaneous accumulation in the bark. The chlorophyll content of the bark of evergreen plants varies with changes in internal environment. There is 1 table.

ASSOCIATION: Akademiya nauk Gruzinskoy SSR, Institut botaniki, Tvilisi (Academy of Sciences of the Georgian SSR, Botany Institute, Tbilisi)

Card 2/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

S/251/62/028/004/002/003
I042/I242

The dynamics of the chlorophyl...

PRESENTED: March 18, 1961, by L.I. Dzhaparidze

SUBMITTED: March 18, 1961

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KETSKHOVELI, E.N.; KINKLADZE, D.Ch.; GIGINEISHVILI, M.N.

Qualitative composition of phytochromes of bark and wood plastids. Soob. AN Gruz. SSR 36 no.1:161-168 O '64.

(MIRA 18:3)

1. Institut botaniki AN Gruzinskoy SSR. Submitted March 23, 1964.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KETSKHOVELI, E.N.; KINKLADZE, D.Ch.

Seasonal change in the content of yellow phytochromes of the bark and wood. Soob. AN Gruz. SSR 35 no.1:179-186 Jl '64. (MIRA 17:10)

1. Institut botaniki AN GruzSSR, Tbilisi. Predstavleno akademikom L.I. Dzhaparidze.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKLADZE, K. A. and MCHEDLOV-PETROSYAN, O. P.

"Calorimetric Analysis of Hydrating Processes in Dehydrated Stratified Hydrosilicates" p. 180

~~"Synthesis and Structure of Hydrosilicates containing Simple and Complex Heavy Metal Cations." p. 38~~

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Izd-vo AN SSSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KUTATELADZE, K.S.; KURDEVANIDZE, O.K.; KINKLADZE, K.A.

Effect of electrolytes on the adhesive properties of cements. Soob. AN Gruz. SSR 24 no.6:669-675 Je '60. (MIRA 13:9)

1. Gruzinskiy politekhnicheskiy institut im.V.I.Lenina, Tbilisi. Predstavleno chlenom-korrespondentom Akademii F.N.Tavadze.
(Cement)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KUTATELADZE, K.S.; KINKLADZE, K.A.

Effect of electrolytes on the activity of the surface of inert fillers. Trudy GPI [Gruz.] no.5:113-120 '62. (MIRA 17:10)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKOVSKIY, G. B.

G. B. KINKOVSKIY, "The Problem of Storing Information in systems of autonomous "memory". Scientific Session Devoted to "Radio Day", May, 1958, Trudrezervizdat, Moscow, 9 Sep. 58

A mathematical theory is given of dynamic "memory" systems whose motion is described by functional equations with retarded argument. Analysis shows the existence of two autonomous "memory" systems: 1) an absolute "memory" system and 2) a relative "memory" system.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKUL'KIN, A. T.

Dzerzhinskiy, Feliks Edmundovich, 1877-1926

F. Ye, Dzerzhinskiy and children. Sme'ia i shkola 7 No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KERNES, I.Ya.; KOTEL'NIKOVA, L.A.; LEMAN, T.R.; SHTUTINA, A.M.; KINKUL'KIN, A.T., retsenzent; KOLOSKOVA, P.P., retsenzent; SEMENKOV, V.N., retsenzent; ITKIN, M.L., red.; MASONOV, Yu.I., red.; ZELENTSOVA, Ye.I., tekhn. red.

[Sociology; recommended list of literature for the aid of the teacher] Obshchestvovedenie; rekomendatel'nyi ukazatel' literatury v pomoshch' uchiteliu. Moskva, Izd-vo Vsesoiuznoi knizhnoi palaty, 1963. 145 p. (MIRA 16:3)

1. Moscow. Gosudarstvennaya publichnaya istoricheskaya biblioteka. 2. Nauchno-bibliograficheskiy otdel Gosudarstvennoy publichnoy istoricheskoy biblioteki (for Kernes, Kotel'nikova, Leman, Shtutina). 3. Zaveduyushchiy sektorom obucheniya istorii Instituta obshchego i politekhnicheskogo obrazovaniya Akademii pedagogicheskikh nauk RSFSR (for Kinkul'kin). 4. Uchitel' sredney shkoly No.204 Timiryazevskogo rayona Moskvy (for Koloskova). 5. Starshiy inspektor Upravleniya prepodavaniya obshchestvennykh nauk Ministerstva vysshego i srednego spetsial'nogo obrazovaniya SSSR (for Semenkov).

(Bibliography--Sociology)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKUL'KIN, B.

S

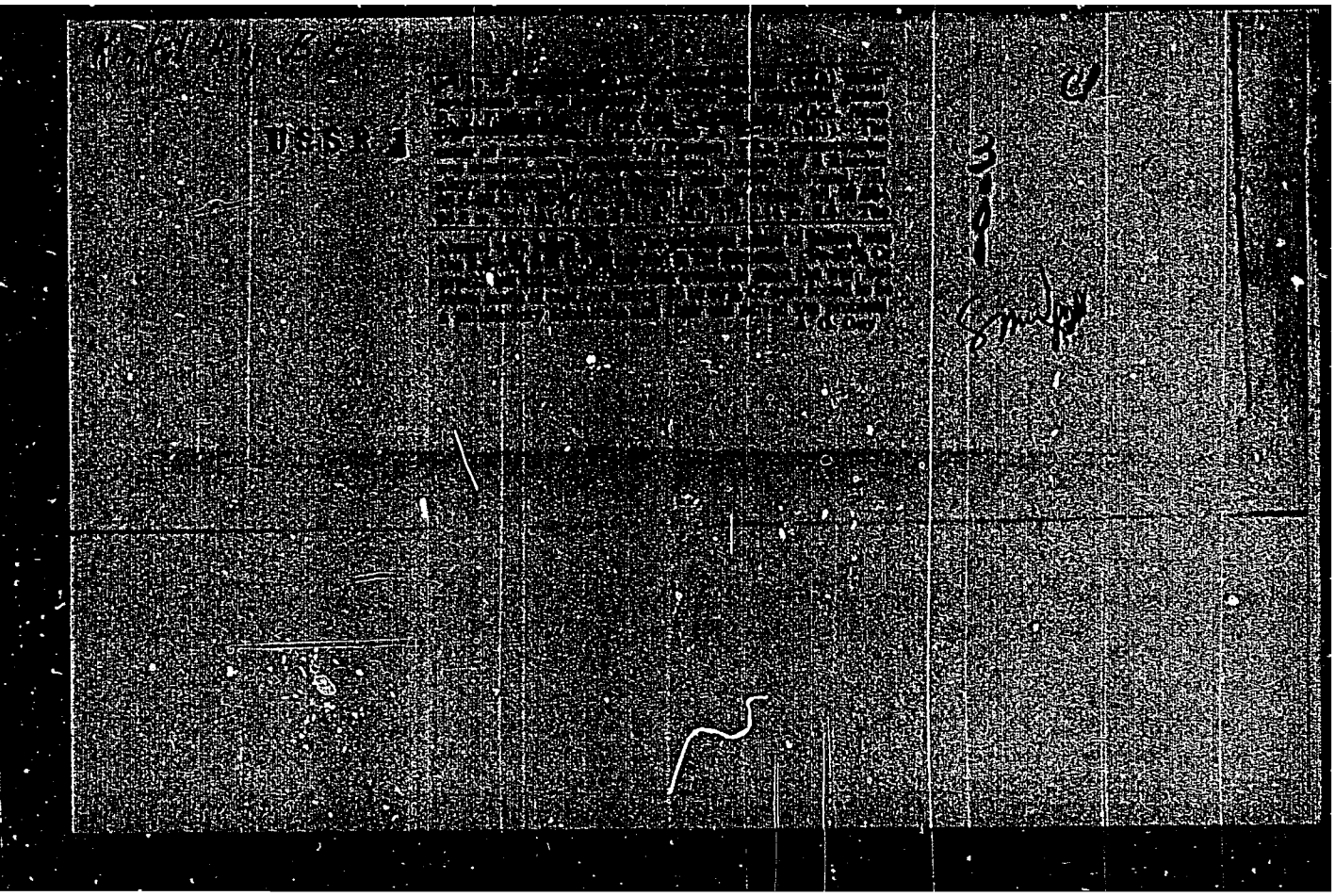
24

New Thermo-Electric Pyrometers. B. Kinkul'kin. (Stal, 1938, No. 6, pp. 15-18). (In Russian). In addition to surveying previous work, the author describes his own experiments on the characteristics of carbon/silicon-carbide, carbon/high-melting-point metal and high-melting-point metal/alloy thermocouples. The thermocouples were subjected to tests under laboratory and service conditions. When testing the carbon/silicon-carbide thermocouples, by placing a rod of silicon carbide fitted into a carbon cylinder in an air stream at 700–750° C., the author investigated the efficiency of a number of protective coatings. A coating consisting of a mixture of aluminium oxide and waterglass was found to be the best for preventing the oxidation of the carbon. The metallic thermocouples consisted of combinations of alloys of the stellite type with platinum or with alitised constantan, molybdenum, and tungsten wires. These thermocouples could be used at temperatures up to 1200° C. At the latter temperature the best thermocouple was found to be a stellite/VZK-alitised molybdenum combination which produced an e.m.f. more than twice that produced by the platinum/platinum-rhodium thermocouple.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1



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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKULKIN, B.

Exhibition of Metal-Cutting Machine in Chicago. p. 41.
(Tekhnika, Vol. 5, no. 6, Nov./Dec. 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

RIB-4 1500

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 27/29

Author : Kinkul'kin, B. Ye., Kand. Tech. Sci.

Title : Treating of cast iron with magnesium (Review of Foreign technology).

Periodical : Vest. mash., 36 #4, p. 88-90, Ap 1956

Abstract : A review of German and English articles concerning a method of adding magnesium to a bath of cast iron containing sulphur. Because the boiling point of magnesium is lower than that of cast iron, it is suggested that magnesium be added in the vapor stage. The method is described. Diagrams.

Institution : None

Submitted : No date

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINKUL'KIN, B.Ye., kandidat tekhnicheskikh nauk.

Exhibition in Hanover. Vest. mash. 36 no.6:82-88 Je '56. (MLRA 9:10)

(Hanover--Machine tools--Exhibitions)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINLE, J.

Decorative stones in Lower Silesia. p. 63.

RACJONALIZATOR. (Centralny Zwiazek Spoldzielczosci Pracy) Warszawa, Vol. 6, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959.

Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINLE R.

KINLE, R.

KINLE, R. Disposition of trap trees must be preceded by a clear analysis of the state of health of the forest. p. 8.

Vol. 29, no. 12, Dec. 1955
LAS POLSKI
AGRICULTURE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

KINLE R.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINLE R

POLAND/General and Special Zoology. Insects F

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25814

Author : Kinle R.
Inst : Not Given
Title : Optimum Norms in the Outlay of Insecticides in the Control of Forest Pests. (Optimal'nyye normy raskhoda insektitsidov pri bor'be s lesnymi vreditelyami).

Orig Pub : Las polski, 1956, No 6, 18-20

Abstract : Differences in opinion with respect to the outlay of insecticides were noted. In experiments carried out in the course of controlling measuring worm moths in 1955, 12% hematox, 10% DDT and a mixture of DDT and HCCH were used. A 10 kg/hectare norm was sufficient for a careful execution of the treatment, but it was necessary in practice to use the 14-16 kg/hectare norm.

Card : 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

LABORI, A. [Laborie, A.]; KINLIN, Zh.; RIGHAR, S.; NIOSSA, R.; ZIWANI, Zh.M.; MARTIN, Zh.; VEBER, V.; GYUYO, Zh.; HAMMON, S.

Experimental bases for artificial cardiac arrest and artificial exclusion of brain activity. Trudy 1-go MMI 11:158-172 '61. (MIRA 15:5)

1. Laboratoriya fiziologii tekhnicheskoy sektsii voyennogo vedomstva i nauchnyy tsentr izucheniya cheloveka, Frantsiya.
(HEART FAILURE) (BRAIN)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

S/148/62/000/009/002/007
E111/E435

AUTHORS: Kinne, G., Vishkarev, A.F., Yavoyskiy, V.I.

TITLE: Thermodynamics of the deoxidation of steel with lanthanum, cerium, praseodymium and neodymium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.9, 1962, 92-98

TEXT: Published data are used to calculate the thermodynamic characteristics applicable to lanthanum, cerium, praseodymium and neodymium when used for steel deoxidation. The activity of cerium at steelmelting temperatures is estimated from the phase equilibrium diagram. Up to 5% Ce the following equations hold

$$a_{Ce} = 3.9[\%Ce] - 0.138[\%Ce]^2. \quad (5)$$

$$\left.\begin{aligned} \gamma'_{Ce} &= 3.9 - 0.138[\%Ce] \\ \gamma_{Ce} &= 3.9 - 3.29[N_{Ce}]. \end{aligned}\right\} \quad (6)$$

the other elements can be assumed to behave similarly. Vapour-

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pressure calculation for 1% concentration at 1600°C shows that there can be hardly any evaporation of Ce and La, whereas certain oxides (particularly Ce_2O_3) could evaporate. The deoxidizing power of the elements is greater than that of aluminium or zirconium and sometimes may exceed that of beryllium; it rises in the following order: Ce, La, Pr, Nd if CeO_2 is produced or La, Pr, Nd, Ce if Ce_2O_3 is produced. For experiments the authors recommend crucibles of CaO, ThO_2, La_2O_3, Ce_2O_3, Nd_2O_3, Pr_2O_3 or stable nitrides. There are 4 figures and 3 tables.

ASSOCIATION: Moskovskiy institut stali i splavov
(Moscow Steel and Alloys Institute)

SUBMITTED: April 23, 1962

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINNE, G.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Thermodynamics of steel deoxidation by lanthanum, cerium, praseodymium, and neodymium. Izv. vys. ucheb. zav.; chern. met. 5 no.9:92-98 '62. (MIRA 15:10)

1. Moskovskiy institut stali i splavov.
(Steel—Metallurgy) (Rare earth metals)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 11071-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD/JG

ACCESSION NR: AP3001375 S/0148/63/000/005/0065/0069

58
57

AUTHOR: Kinne, G.; Vishkarev, A. F.; Lavoiskiy, V. I.

TITLE: Deoxidizing capacity of rare-earth elements (lanthanum, cerium, praseodymium and neodymium)

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1963, 65-69

TOPIC TAGS: rare-earth elements, lanthanum, cerium, praseodymium, neodymium, deoxidation, aluminum, calcium, magnesium, deoxidation constants, smelting temperature, beryllium, zirconium

ABSTRACT: The rare-earth elements lanthanum, cerium, praseodymium, and neodymium exhibit deoxidizing capacities exceeding those of aluminum and zirconium even approach the activity of calcium and magnesium. Predictions of activity from thermodynamic calculations are borne out by the experimental results. The deoxidation mechanism was studied indirectly, by conducting smelting operations in an Al sub 2 O sub 3 crucible, with the material studied and the crucible material achieving equilibrium within 15-25 minutes, when measurements were made. Deoxidation constants for the four rare earth elements are given as a function of smelting temperature; comparative information for beryllium and zirconium are also provided. Orig.

Card 1/2 Moscow Inst. of Steel and Alloys

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINOSHENKO, Yu. T.

Cand Med Sci - (diss) "Diagnostics of tuberculosis of the kidneys in the light of clinico-roentgenological studies." Khar'kov, 1961. 15 pp; (Ministry of Public Health Ukrainian SSR, Khar'kov State Med Inst); 200 copies; free; (KL, 7-61 sup, 259)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KHAZAN, G.L., kand.med.nauk; STANISLAVSKIY, Ya.M., kand.med.nauk; KUTEPOV, V.N., mladshiy nauchnyy sotrudnik; KINOSHENKO, Yu.T., mladshiy nauchnyy sotrudnik (Khar'kov); Prinimali uchastiye: NESTRUGINA, Z.F., kand.med.nauk; NERUBENKO, A.B., mladshiy nauchnyy sotrudnik.

Work conditions, state of health and disease incidence in precision and chill casting shops and sections. Vrach. delo no.5:117-118 My '62. (MIRA 15:6)

(FOUNDING--HYGIENIC ASPECTS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINOV, Dmitir, kand.ekonom.nauk

Amortization problems in Bulgarian agriculture. Fin. SSSR 22 no.8:82-88 Ag '61. (MIRA 14:8)
(Bulgaria--Agriculture)
(Bulgaria--Amortization)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

AVETYAN, M.G.; DARBINYAN, E.G.; SAAKYAN, Al'b.A.; KINOYAN, F.S.; MATSOYAN, S.G.

Cyclic polymerization and copolymerization. Part 17: Radical polymerization of substituted divinge ketones. Vysokom. soed. 6 no.1:3-9 Ja'64. (MIRA 17:5)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

MATSOYAN, S.G.; MORLYAN, N.M.; KINOYAN, F.S.

Kinetics of tertiary vinylethinylcarbinol polymerization. Vysokom. sced. 7 no.7:1159-1164 Jl '65. (MIRA 18:8)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSBERG, K.

"Experience in applying the Kowalow method in the clothing industry." p. 27. (ODZIEZ, Vol. 4, no. 2, Feb. 1953, Lodz, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

SOLOV'YEV, B.F.; KINSH, A.S.; YAKUKHINA, A.F.; BLOKHINA, V.V., red.; PECHENKIN, I.V., tekhn.red.

[Seed corn; a handbook] Semenovodstvo kukuruzy; spravochnik. Moskva, Izd-vo M-va sel'khoz.SSSR, 1960. 226 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Ministerstvo sel'skogo khozyaystva. Glavnaya inspektsiya po zemledeliyu.
(Corn (Maize))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

ZAKHARCHENKO, A.L.; DEMCHENKO, P.V.; YAKUKHINA, A.F.; SOLOV'YEV, B.F.; KINSH, A.S.; MINENKOVA, V.R., red.; PEVZNER, V.P., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Reference book on corn]Spravochnik po kukuruze. Moskva, Sel'khozizdat, 1962. 519 p. (MIRA 16:4)
(Corn (Maize))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSH, N., zasluzhenyy agronom UkrSSR

Develop implements for scarifying soils of any density.
Zemledelie 26 no.1:86-87 Ja'64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSHAKOV, A.I.; SOKHRANOV, N.N.; SOLODUNOV, A.I.

Four-electrode tool used in electric logging. Prikl.geofiz. no.30:215-228 '61. (MIRA 14:10)
(Electric prospecting)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KIN'SHAKOV, N. F.

"Physical Bases for Computing a Regenerative Battery, Operating on Solar Energy and Designed for the Distillat'on of Water," pp 171 -201, 111, 3 ref

Abst: The development of a mobile solar desalinator consisting of two separate parts -- regenerative battery and solar stand -- is discussed. The article describes a regenerative battery which operates not only from the solar heat, but also from other heat sources. Description of the construction and principle of operation of the battery are given. The design calculation for any desired capacity is given. It is shown that the quantity of heat required for distilling one liter of water is 220 kilocalories.

SOURCE: Trudy Uzbeksk. Gos. Un-ta im. Alishera Navoi, MVO SSSR (Works of the Uzbek State University imeni Alisher Navoi, Ministry of Higher Education USSR), new series, No 65, Physics-Mathematics Faculty, Samarkand, Publishing House of the Uzbek State University, 1956

Sum 1854

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KIN'SHAKOV, M.F.

Capacity of a regenerative salt water distiller as dependent on the density of the brine. Trudy UzGu no.117:27-30 '62. (MIRA 16:7)

(Seawater, Distillation of)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

Name: KIN'SHAKOV, M. F.

Dissertation: Physical principles and designs of a portable solar regenerative distiller

Degree: Cand Phys-Math Sci

Defended at

~~Affiliation~~: Min Higher Education USSR, Uzbek State Inst imeni Alisher-Navoi

Publication

~~Defense~~ Date, Place: 1956, Samarkand

Source: Knizhnaya Letopis', No 48, 1956

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

Controlling root knot nematodes. Zashch. rast. ot vred. i bol. 9 no.10:23-24 '64 (MIRA 18:1)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

ROF, Robert, [Roaf, Robert], KINSHINA, Ye.A. [Translator]

Treatment of resistant scoliosis. Ortop.travm. i protez. 19 no.4: 19-23 Jl-Ag '58 (MIRA 11:11)

1. Direktor otdela klinicheskikh issledovaniy Ortopedicheskogo gospitalya v Osvestri, Angliya.
(SCOLIOSIS, ther.
resist. forms (Rus))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSHT, N.V.

Criteria for the optimization of the process of fault searching. Izv. SO AN SSSR no. 10. Ser. tekh. nauk no. 3:3-11 '65.

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted January 9, 1965.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

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L 47570-66 EWT(d)/EWT(1)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1) IJP(c) TG

ACC NR: AP6032168 SOURCE CODE: UR/0410/66/000/004/0118/0126

AUTHOR: Kinsht, N. V. (Novosibirsk)

ORG: none

33
B

TITLE: Some problems in optimizing the procedure of restoring failure-free operation of systems using testing and substitution of elements

SOURCE: Avtometriya, no. 4, 1966, 118-126

TOPIC TAGS: reliability theory, optimal diagnostic procedure, failure free operation, OPTIMAL CONTROL

ABSTRACT: An optimal diagnostic procedure which includes the detection of failures of elements as well as the substitution of failure-free elements for ones which are not tested is presented. It is assumed that the system is composed of n elements and that only one element can be tested or restored at the same time; for every i-th element ($i = 1, 2, \ldots, n$), there are given: p_i the a priori probability of failure, τ_i the cost of testing, S_{0i} the cost of substitution without preliminary testing, S_i the cost of restoring of the element which failed. The minimum average cost of restoring failure-free operation of the system is considered as an optimality criterion of the procedure. Three expressions which are considered as necessary optimality conditions of the procedure for restoring failure-free operation of the system are derived. The construction of the diagnostic procedure corresponding to the necessary optimality conditions (the procedure is called quasi-optimal because the

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L 47570-66

ACC NR: AP6032158

derived optimality conditions are only necessary, but not sufficient and average cost may not be minimal) is presented and the question of how to improve this procedure is analyzed. It is pointed out that the optimality conditions derived here can be utilized in constructing optimal diagnostic procedures for more complex systems. Orig. art. has: 11 formulas. [LK]

SUB CODE: 14/ SUBM DATE: 09Aug65/ ORIG REF: 004/ OTH REF: 002/ ATD PRESS: 5092

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L 26552-66 EWP(e)/EWP(k)/EWT(d)/EWP(h)/T/EWP(1)/EWP(v) IJP(c) GG/BB

ACC NR: AP6017382 SOURCE CODE: UR/0410/65/000/003/0034/0038

AUTHOR: Kinsht, N. V. (Novosibirsk)

ORG: none

TITLE: One procedure for malfunction search

SOURCE: Avtometriya, no. 3, 1965, 34-38

TOPIC TAGS: mathematic model, automatic control

ABSTRACT: The construction of automatic devices for checking performance and diagnosing breakdowns of complex technical systems requires preliminary selection of an optimal procedure for detecting malfunctions (a test sequence). Optimization of such a procedure is performed for a mathematical model of the object to be diagnosed, reflecting its actual properties. This work is an analysis of a model of an object for diagnosis in which it is assumed that the detection of a breakdown in some element makes it possible to forego checking of a certain group of elements. An optimal procedure for locating malfunctions is derived for the proposed model. The procedure involves checking of elements in the order of nondecreasing quantity

$$\frac{t_{k_i}}{p_{k_i}}(1-P_i)$$

where t_{k_i} is the cost of checking an element and p_{k_i} is the probability of failure of the element. The author thanks V. I. Rabinovich for his advice and criticism. Orig. art. has: 14 formulas. [JPRS]

SUB CODE: 13 / SUBM DATE: 28Nov64 / ORIG REF: 002 / OTH REF: 002

Card 1/1 UDC: 681.2.08+621.3.019.3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSHT, V. (Novosibirsk)

How to eliminate "propeller vibrations" on AN-2 airplanes.
Grazhd.av.13 no.12:24 D '56. (MLRA 10:2)

1. Nachal'nik otdela tekhnicheskogo kontrolya aviaremontnogo predpriyatiya.
(Vibration (Aeronautics))

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

RINSKA, E.

BC

B-II-2

PROCESSES AND PROPERTIES INDEX

Capillary and luminescence analysis of cinchona barks. E. Švácn and E. Rinská. (Coll. Czech. Chem. Comm., 1939, 11, 258—265).—A method of differentiating between commercial samples of cinchona bark is described. Strips of filter-paper are lowered into cylindrical vessels containing 10% macerations of the bark so that their ends are immersed. After 24 hr. they are removed and dried, and the amount of absorption is measured. Luminescence tests are then carried out on the dried papers. EtOH and acid macerations give fluorescent bands the widths of which increase with increasing amount of alkaloid. 68% EtOH macerations give better results than 90% or 96% EtOH. HCl or $CCl_3 \cdot CO_2H$ is better than H_2SO_4, AcOH, or $H_2C_2O_4$, HCl macerations showing exceptionally strong fluorescence. C. R. H.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

7

CA

MESCALINE ... Emilie Kluska (Czech Univ., Prague, Czechoslovakia). Chem. Obzor 22, 77 (1947). Various forensic chemical methods for detection and detn. of mescaline were tested. The Florence and Sass-Otto methods are qual. and not quant. as reported in the literature. No satisfactory quant. method could be found.

Jan Micka

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PIRLIGRAS, I.

Pirligras, I. Prevention of losses of drilling fluid. p. [illegible]
Petrol si Gaze, Bucuresti, Vol. [illegible], no. [illegible], June 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Unclassified.

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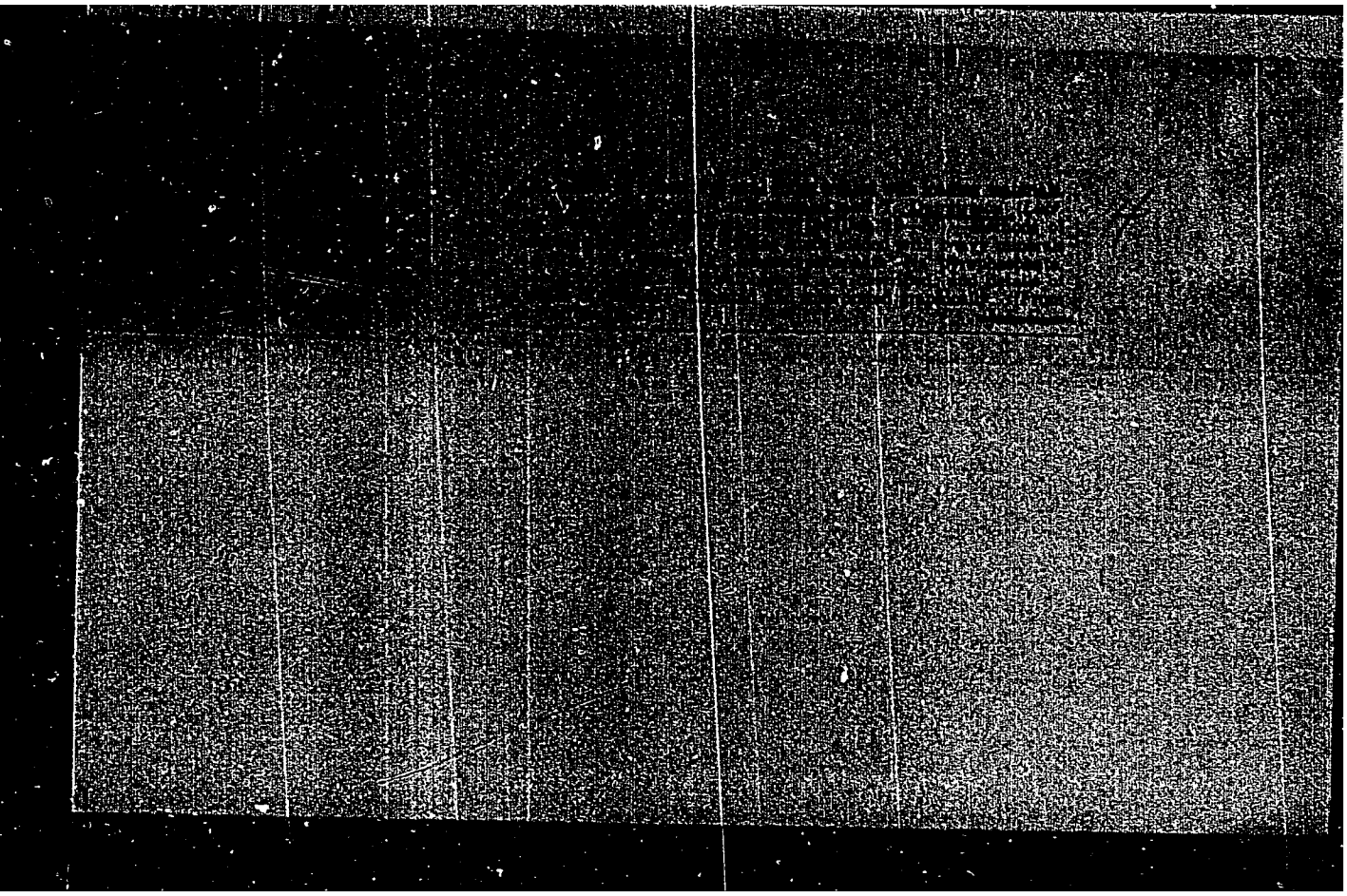

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

11

Flaking in Steels. (In Czech.) František Kinsky. *Hutnické Listy*, v. 4, July 1949, p. 201-210, Aug. 1949, p. 241-246, Sept. 1949, p. 277-284.

Presents results of a thorough theoretical and practical analysis of the above problem, caused by the presence of hydrogen, but affected by other factors. Gives recommendations for avoidance or minimization of flaking. Data are tabulated and charted. 25 ref.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSKY, F.

Eminger, Z. Experimental comparison of properties of carbon steel made in acid and in basic lined open-hearth furnaces. p. 329.
HUTNICKE LISTY, Brno, Vol. 10, no. 4, Apr. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

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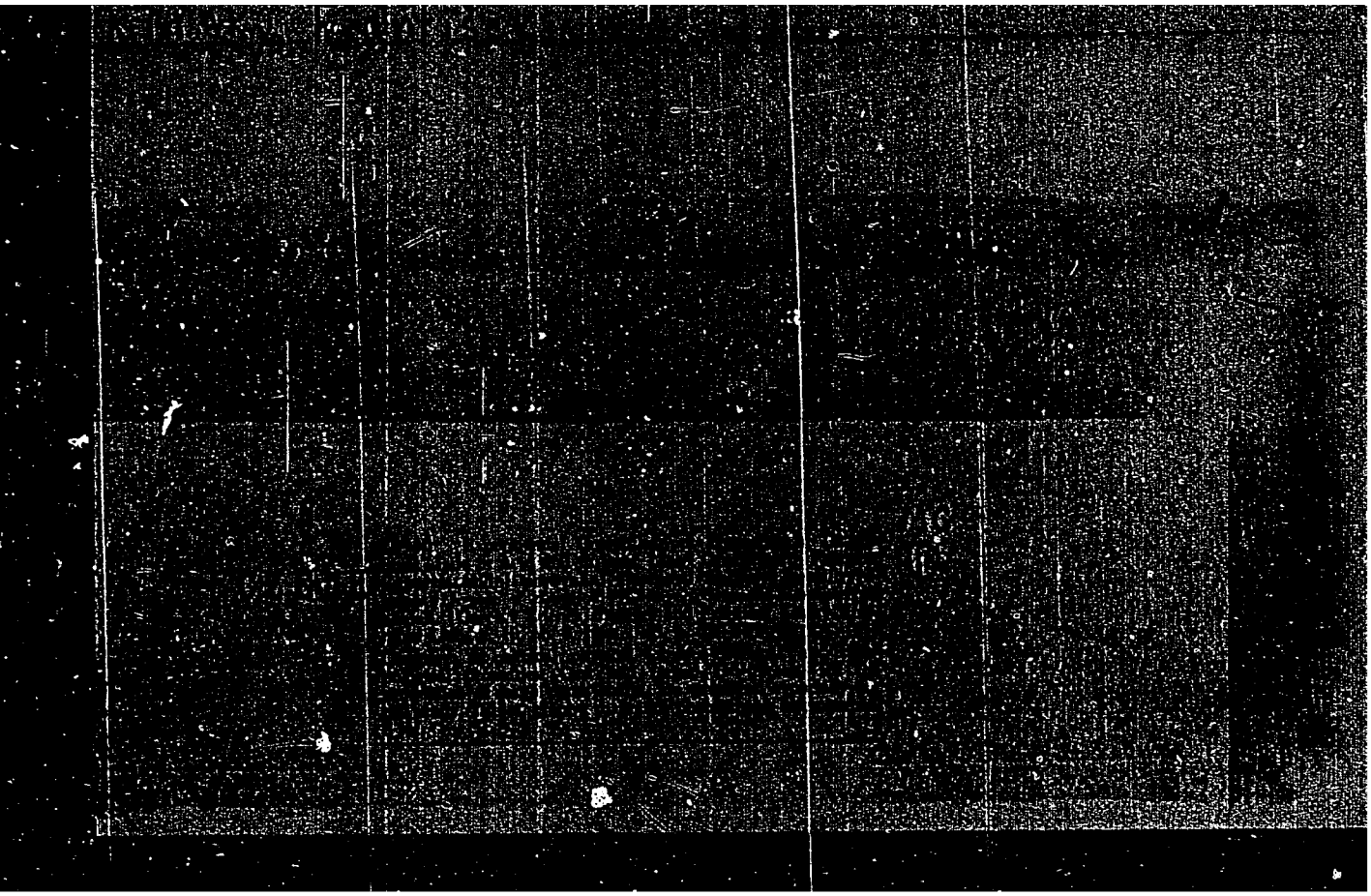

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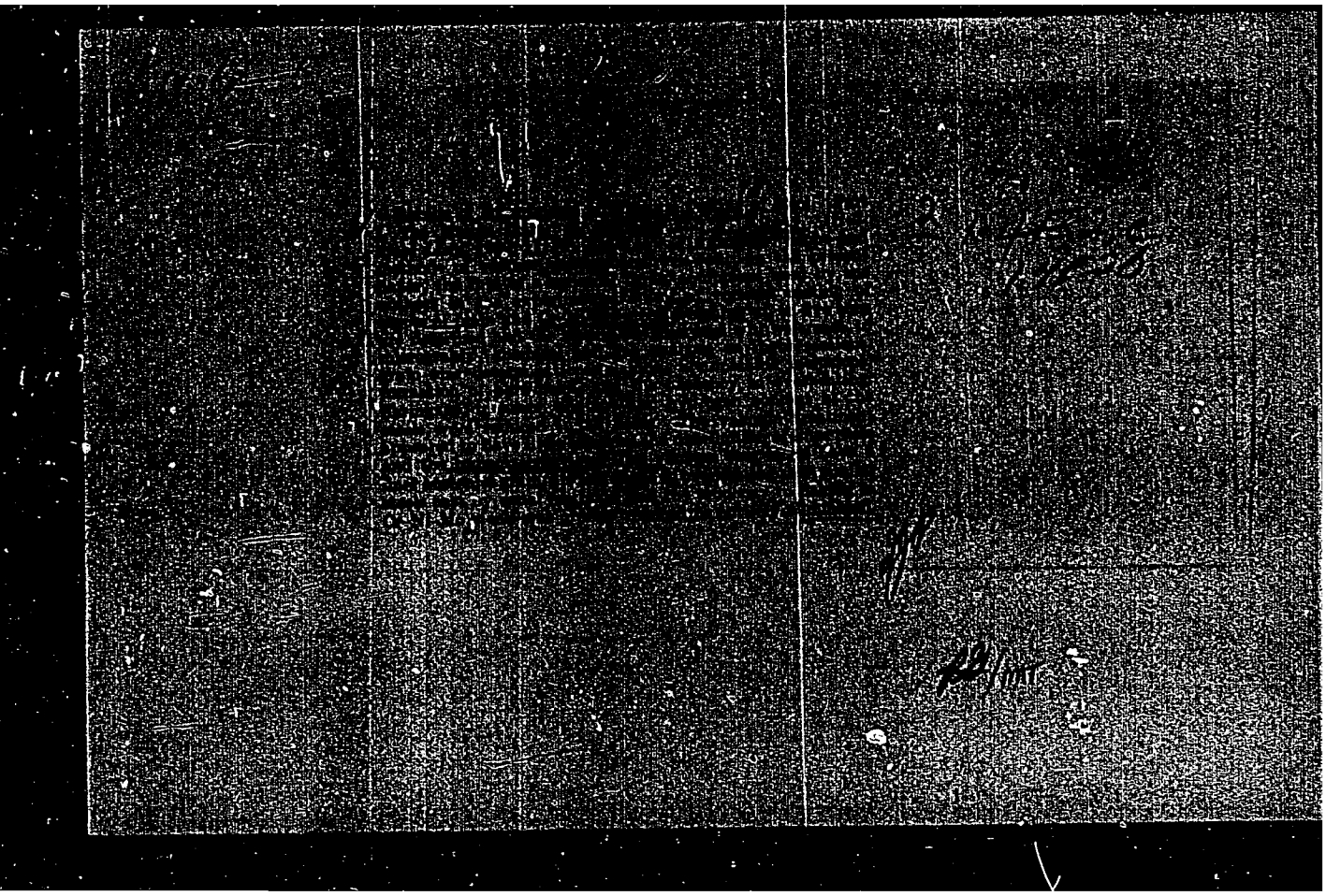

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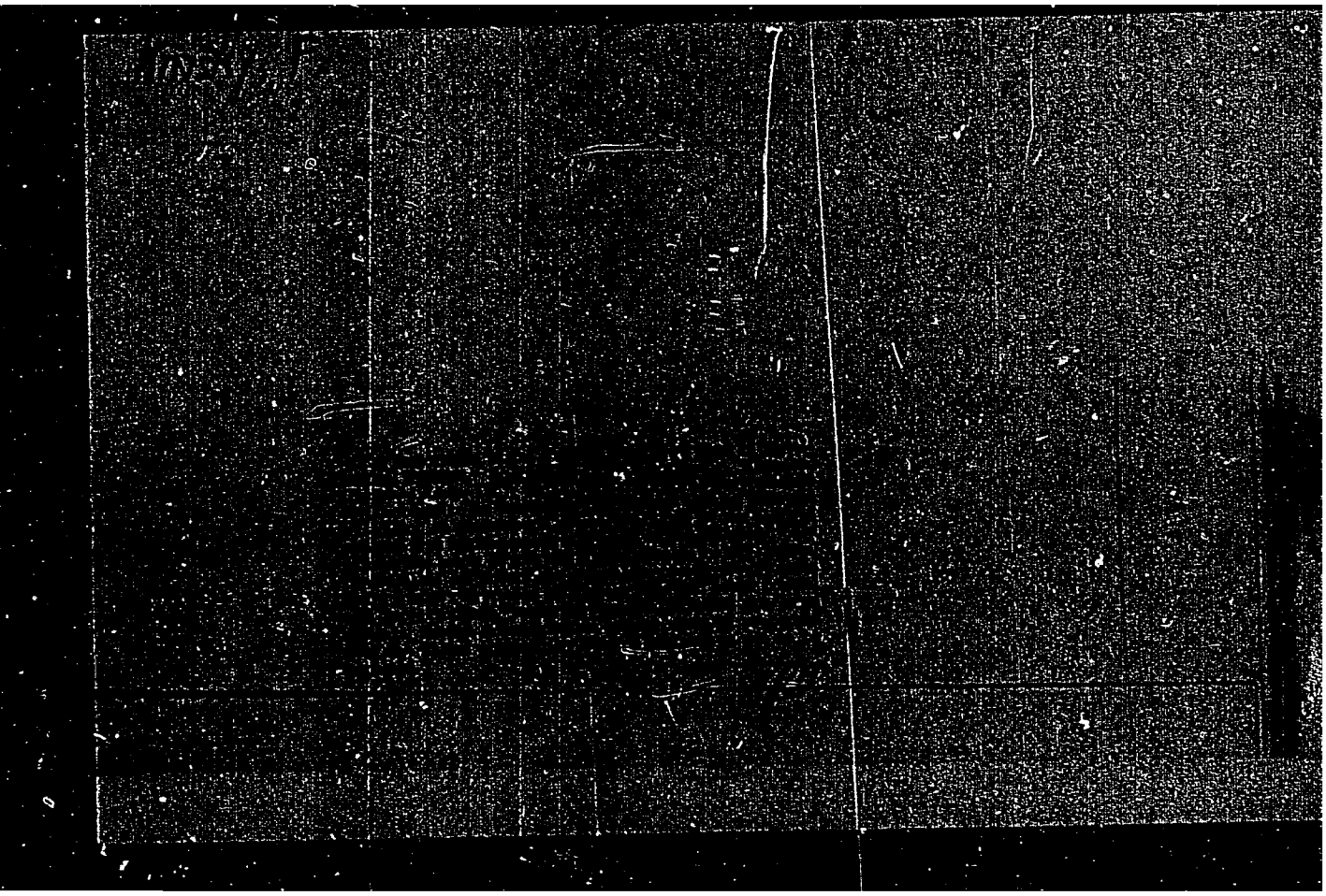

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

CZECH/34-59-5-4/19

AUTHORS: Kinský, F., Ing.Dr. and Fiala, A. Ing.

TITLE: Development of the Metallurgy of Acidic Smelting in the Manufacture of High Grade Steels in the Steelworks of the V. I. Lenin Works, Pilsen (Vývoj metalurgie kyselého tavení při výrobě náročných značek ocelí v ocelárně Závodu V. I. Lenina, Plzeň)

PERIODICAL: Hutnické Listy, 1959, V. 14 Nr 5, pp 394-405 (Czechoslovakia)

ABSTRACT: Before the war smelting with Si-reduction was effected in Czechoslovakia under slags which were rich in MnO (above 30%) and the steel bath in the acid furnace was processed solely by using a reduction carbon boil. The task of manganese as a regulator of the oxygen content in the steel and its influence on reducing again silicon was over estimated. However, the high content of MnO in the slag and its insolubility in the steel was successfully utilised to suppress secondary oxidation of the reduced silicon and to exclude the slag from the reactions in the furnace during the period of intensive reduction of silicon with carbon. From 1953 onwards, in cooperation with the Soviet metallurgist Badyagin (Ref 3), the silicon reduction process has been considerably

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CZECH/34-59-5-4/19

Development of the Metallurgy of Acidic Smelting in the Manufacture of High Grade Steels in the Steelworks of the V. I. Lenin Works, Pilsen

intensified and at present this process is characterized by the following features: duplex (100%) liquid charge; smelting under slags containing less than 25% MnO; working of the steel bath by an oxidation carbon boil followed by a reduction boil. In this very detailed paper the authors report the effect of the introduced changes as regards the manganese content and the character of the carbon boil on the speed of reverse reduction of silicon, on the oxygen content, on the oxide inclusion and on the contents of H_2 and N_2 in the steel. Data are given of some cases which show clearly the qualitative improvement in the steel produced by means of the intensified silicon reduction process which has been in use since 1953. From 1956 onwards the Works have changed over from increasing slowly the manganese content during the reduction boil by repeated small additions of FeMn to using a single addition of FeMn at the end of the smelting in order to

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CZECH/34-59-5-4/19

Development of the Metallurgy of Acidic Smelting in the Manufacture of High Grade Steels in the Steelworks of the V. I. Lenin Works, Pilsen

increase the fluidisation of the silicon oxides which saturate the bath during the reduction boil. A further change has been introduced in the method of alloying, namely, alloying additions are added into the acidically lined furnace at the very beginning of the smelting before pouring in the pre-melted liquid steel. The here described new method of producing alloy steels brings about an improvement of its internal quality and also permits the use of the cheapest grades of high carbon and blast furnace FeCr for the manufacture of chromium steels.

There are 8 figures, 16 tables and 25 references, 15 of which are Czech, 5 Soviet, 4 German, 1 English.

ASSOCIATION: Závody V. I. Lenina, Plzeň (V. I. Lenin Works, Pilsen)

SUBMITTED: February 7, 1959

Card 3/3

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

TEINDL, J., prof., inz., Dr.Sc.; MYSLIVEC, T., inz., C.Sc.; PROUZA, M., doc., inz., C.Sc.; KINSKY, Fr., inz., dr.; KLIK, L., inz.; NEMEC, J., prof., inz., dr., Dr.Sc.; STARON, J., inz.; ZILVAR, V., inz.

"Science of materials" by [akademik] Frantisek Pisek, Ladislav Jenicek. Pt.3. Vol.1: "Outline of the development of materials. Theory of metallurgical processes. General metallurgy." Vol.2: "Production of iron, steel and nonferrous metals. Nonmetallic materials." Reviewed by J. Teindl, T. Myslivec, M. Prouza, Fr. Kinsky, L. Klik, J. Nemec, J. Staron, V. Zilvar. Hut listy 18 no.4:299-304 Ap '63.

1. Clen korespondent Ceskoslovenska akademie ved (for Teindl and Kinsky).

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

EMINGER, Z.; KINSKY, F.

Conference on vacuum steel processing. Hut listy 19 no.9:676 S '64.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 6396-65 EWT(1)/EWP(t) IJP(c) SOV/3034/64/000/010/0685/0693

ACCESSION NR: AP4020070

AUTHOR: [illegible] (Engineer, Doctor, Co-responding member GRAY) (Deceased)

TITLE: Off-furnace vacuum metallurgy in the steel mill of the V. I. Lenin works in Plzen

SOURCE: Hutnicke listy, no. 10, 1963, 685-693

TOPIC TAGS: steel, vacuum casting, vacuum melting, vacuum refining, metalworking machinery

ABSTRACT: Described are trends and methods in the off-furnace vacuum treatment of steel, and the design of improved [illegible] the vacuum station in Plzen. These [illegible] vacuum treatment in the ladle-ladle units (ladle-air installation, [illegible] design of the cover and caisson, dela and ladle-mold systems, pouring station design of the cover and caisson, dela on charging additives) and the limitation of spraying of steel in the course of pouring. Orig. art. has: 11 figures, 6 tables.

ASSOCIATION: Zavody V. I. Lenina, Plzen (V. I. Lenin Works)

SUBMITTED: 00 ENCL: 00 SUB CODE: IE, MM

NO REF SOV: 002 OTHER: 010 JPRS

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 6236-65 EWT(1)/EWP(e) - JD

ACCESSION NR: AP5020870 CZ/0034/64/000/010/0685/0693

AUTHOR: Klimes, Frantisek (Engineer, Doctor, Corresponding member CSAV) (Deceased)

TITLE: Oil-furnace vacuum machinery in the steel mill of the V. I. Lenin works in Plzen

SOURCE: Hutnicke listy, no. 10, 1964, 685-693

TOPIC TAGS: steel, vacuum casting, vacuum melting, vacuum refining, metalworking machinery

ABSTRACT: Described are trends and growth in the off-furnace vacuum treatment of steel, and the design of large [illegible] in the vacuum station in Plzen. These units include an installation for conducting vacuum treatment in the ladle-to-ingot and ladle-mold systems, pouring stations, design of the cover and unloaded, data on charging additives, and the installation of spraying of steel in the course of pouring. Orig. art. has: 14 figures, 2 tables.

[Translation] Skoda V. I. Lenin, Plzen (V. I. Lenin Works)

SUBMITTED: 00 ENCL: 00 SUB CODE: IE, MM

NO REF SOV: 002 OTHER: 010 JPRS

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 62296-65 EWT(d)/EWP(e) ... AID

ACCESSION NR: AP5020070 UR/0034/64/000/010/0685/0693

AUTHOR: Kinsky, Frantisek (Engineer; Doctor; Corresponding member CSAV) (Deceased)

TITLE: Off-furnace vacuum metallurgy in the steel mill of the V. I. Lenin works in Plzen

SOURCE: Hutnicke listy, no. 10, 1964, 685-693

TOPIC TAGS: steel, vacuum melting, vacuum melting, vacuum refining, metalworking machinery

ABSTRACT: Described are trends and methods in the off-furnace vacuum treatment of steel, and the design of important units in the vacuum station in Plzen. These units include an installation for non-continuous vacuum treatment in the ladle-ladle and ladle-mold systems, pouring stations, design of the cover and caisson, data on charging additions, and the limitation of spurting of steel in the course of pouring. Orig. art. has: 11 figures, 6 tables.

ASSOCIATION: Zavody V. I. Lenina, Plzen (V. I. Lenin Works)

SUBMITTED: 00 ENCL: 00 SUB CODE: IE, MM

NR REF SOV: 002 OTHER: 010 JPRS

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSKY, I.

Combating filtration of cement slurry. p. 72

PETROL SI GAZE, Bucuresti, Vol 7, No2, Feb., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July, 1956

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KENSKY, I.

TECHNOLOGY

Periodicals: PETROL SI GAZE. Vol. 9, no. 10, Oct. 1958

KENSKY, I. Research on cementing in salt formations. p. 446

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSKY, I.: PIRLIGRAS, E.

Importance of using emulsions as drilling fluid. p. 235.

PETROL SI GAZE. (Asociatia Stintifica a Inginerilor si Tehnicienilor din Rominiasi Ministerul Industriel Petrolului si Chimiei) Bucuresti, Rumania. Vol. 10, no. 6, June 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Jan 1960

Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSKY, I.; PIRLIGRASY, E.

Cememts for cementing methane gas wells. p. 380.

PETROL SI GAZE. (Asociatia Stiintificia a Ingineri or si Technicienilor din Rominia si Ministerul Industriei Petrolului si Chimiei) Bucuresti Rumania. Vol. 10, no. 9, 1959

Monthly list of East European Accessions (EEAI) LC VOL. 9, no. 2 Feb. 1960

Uncl.

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ARCAN, Lelia; KINSKY, I.

Influence of mineralogical composition of clay on the water-clay suspensions. Petrol si gaze 12 no.9:385-391 S '61.

(Clay) (Water) (Suspensions)

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KINSKY, Ion, ing. de mine

Contributions to the study of bentonite clay swelling. Petrol si gaze 13 no.5:208-211 My '62.

1. Cercetator principal la Institutul de Studii si Cercetari Hidrotehnice.

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KINSKY, L., BOCANETE, E., BODNARESCU, D.

New improved methods in the exploitation of salt through its dissolution in wells. p. 452.

REVISTA MINELOR. (Ministerul Minelor, Ministerul Industriei Petrolului si Chimiei, Directia Exploatarilor Miniere si Asociatia Stiintifica a Inginerilor si Tehnicienilor din Rominia) Bucuresti, Rumania. Vol. 10, No. 11, Nov. 1959

Monthly List of East European Accessiosn (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSKY, V.

Some unusual uses of light bulbs.

P. 242, (Sdelovaci Technika) Vol. 5, no. 8, Aug. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KIESNER, Kazimierz, dr inż.

Protection of medium voltage networks from earth fault surges.
Energetyka Pol 17 no.2:45-46 F '63.

1. Instytut Elektroenergetyki, Politechnika, Wroclaw.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINSNER, Kazimierz, dr inz.

Experimental investigations of dead earth overvoltage in medium voltage nerworks. Energetyka Pol 17 no.12:365-368 D'63.

1. Instytut Automatyki Systemow Energetycznych, Warszawa.

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BERNEY, I.I., kand.tekhn.nauk; GRAZHDANSKIY, S.A., inzh.; KINSTLER, K.M., inzh.; LATSIS, A.G., inzh.; ZAUERKHAGENA, G.O., inzh.

Modernization of sheet-molding machines. Stroi. mat. 8 no.6:27-29 Je '62. (MIRA 15:7)

(Asbestos cement) (Molding machines)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINETLING, A. M.

26

B

4253* **Diffusion Kinetics of Reactions Involving Spherical Granules.** (In Russian.) A. M. Kinetling and B. I. Bronshtein.

Zhurnal Prikladnoi Khimii (Journal of Applied Chemistry), v 23, Dec. 1950, p. 1249-1259.

Presents theoretical, mathematical analysis. Clarified by graphs tables, and a diagram.

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

KINT, P.

Experiments in companion cropping on state farms. p. 104

SOTSIALISTLIK POLLUMJANDUS. POLLUMJANDUS MINISTEERIUM.
Tallin, Hungary. No. 3, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11
November 1959.

Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

L 8498-66 (A) EWT(m)/EWP(j)/EWP(t)/EWP(b) JD/RM

ACC NR: AP5028478 SOURCE CODE: UR/0286/65/000/020/0064/0064

AUTHORS: Ardov, D. I.; Kamenetskiy, I. Ya.; Smirnova, A. F.; Sergeyeva, A. A.; Ponomareva, V. M.; Golubeva, A. V.; Luk'yanov, N. P.; Yeremina, Ye. N.; Sivograkova, K. A.; Kinter, I. R.; Shalina, V. P.

ORG: none

TITLE: Surfacing for metallic and reinforced concrete decks. Class 39, No. 175643 [announced by Organization of the State Committee on Ship Construction SSSR (Organizatsiya gosudarstvennogo komiteta po sudostroyeniyu SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 64

TOPIC TAGS: polymer, copolymer, rubber, mineral filler, pigment, metal surfacing, reinforced concrete, ship component, SYNTHETIC RUBBER

ABSTRACT: This Author Certificate presents a surfacing material for metallic and reinforced concrete decks. The surfacing material is based on a binding polymer and on mineral fillers and pigments. To increase its resistance to abrasion and corrosion and to reduce its slipperiness, a copolymer of styrole with nitrylacrylic acid and with butylacrylic rubber is used as the binding polymer.

SUB CODE: 11/ SUBM DATE: 12Mar64

BVK

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

ACC NR: AP6032244 SOURCE CODE: UR/0016/66/000/009/0062/0066

AUTHOR: Kintera, F.; Vortel'. V.

ORG: Military-Medical Scientific Research Institute, Karlov University (Voyenno-meditsinskiy nauchno-issledovatel'skiy institut Karlova universiteta); Institute for Post-graduate Training of Physicians im. Purkin'ye, Karlov University (Institut dlya usovershevstvovaniya vrachey Karlova universiteta)

TITLE: Experimental airborne tularemia

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 9, 1966, 62-66

TOPIC TAGS: infective disease, animal disease, tularemia, guinea pig, bacterial aerosol, biomedical chamber, immunization, VACCINE

ABSTRACT: Normal and immunized guinea pigs (average weight 320 g) were exposed to 1 and 100 Dlm aerosol doses of *F. tularensis* no. 2713 (a virulent strain isolated in Czechoslovakia) in the biomedical chamber shown schematically in Fig. 1.

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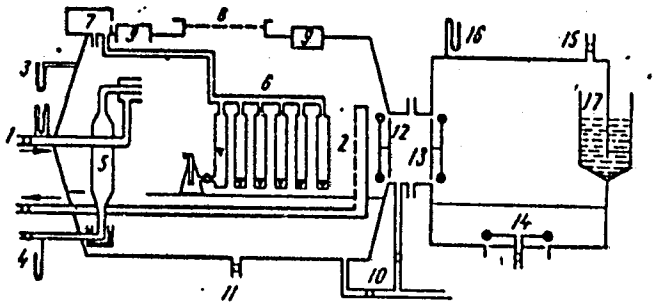

Fig. 1. Experimental chamber

1 - Air feed; 2 - air outflow; 3 - manometer; 4 - pressurized air; 5 - atomizer; 6 - flow meters; 7 - air pump; 8 - aperture; 9 - lamps; 10 - pressurized steam feed; 11 - condensate drain; 12 - main valve of chamber; 13 - main valve of movable box; 14 - drain valve with disinfecting mechanism; 15 - air outlet to oven for combustion; 16 - manometer; 17 - liquid filter with disinfectant.

Card 2/4

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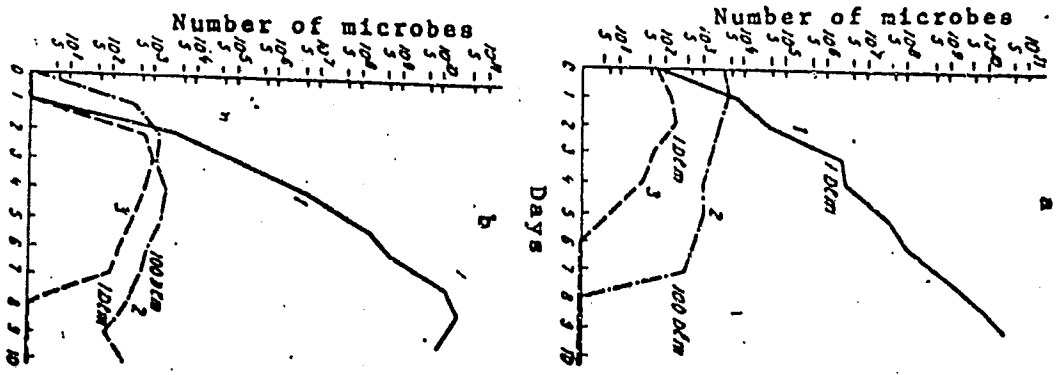
ACC NR: AP6032244

The particle size of the aerosol was between 0.5—4.5 microns. Conditions in the chamber were kept constant at 8 mm water pressure, air temperature of 18—20°C, and 85% relative humidity. Immunization of 120 guinea pigs was accomplished with *F. tularensis* strain 15 live vaccine in an intradermal dose of $94 \cdot 10^4$ microbial cells, and five weeks later the animals were exposed to the aerosol doses indicated. The results of comparison of profileration of *F. tularensis* in normal and immunized guinea pigs are shown in Fig. 2.



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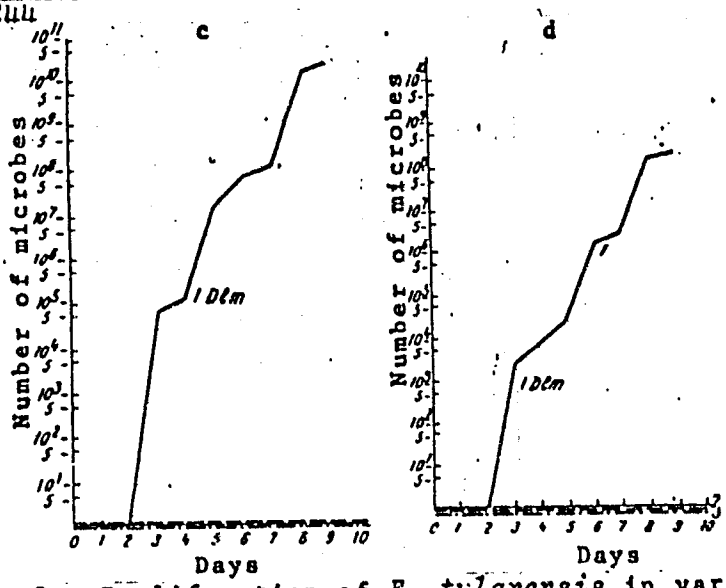

Table 2 cont.

Fig. 2. Proliferation of *F. tularensis* in various organs of immunized and normal guinea pigs
a - Lungs; b - lymph nodes; c - spleen; d - liver;
1 - normal guinea pigs; 2,3 - immunized guinea pigs.
Orig. art. has; 2 figures
[WA-50; CBE No. 14]
[EL]

SUB CODE: 06/ SUBM DATE: 08Jul65

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722530010-1

CHACHAVA, K.V.; BUDZHIASHVILI, O.N.; KINTRAIA, P.I.

Electrocardiogram of the fetus in the process of parturition under normal conditions and in pathology. Soob. AN Gruz. SSR 31 no. 2:481-488 Ag '63. (MIRA 17:7)

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CHACHAVA, K.V., prof.; BUDZHIASHVILI, O.N.; KINTRAIA, P.I.

Fetal electrocardiogram in the process of normal and pathologic labor. Akush. i gin. 40 no.3:23-29 My-Je '64. (MIRA 18:6)

1. Kafedra akusherstva i ginekologii (zav. - prof. K.V.Chachava) Tbilisskogo instituta usovershenstvovaniya vrachey.

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KINTSEL, A.B. and FRENKS, R.

"High chromium Stainless and Heat-Resistant Steels", Metallurgizdat, 1945.

"Research in Corrosion of Metals (Issledovaniya Po Korrosii Metallov)".
Published by--Inst. of Physical Chemistry, USSR Academy of Sciences, Moscow--1951.
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KINTSEL', L. A.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5289

Author: Tikhonov, V. A., Kintsel', L. A., Suvorova, O. F., Shpynova, L. G.

Institution: L'vov Polytechnic Institute

Title: Change in Composition of Liquid Phase in the Cement-Water System

Original Publication: Dokl. L'vovsk. politekhn. in-ta, 1955, 1, No 2, 88-92

Abstract: Sulfite-alcohol vinasse lowers the concentration of lime in the liquid phase of the cement-water system, which prevents reduction in strength on mixing of such compounded binders as building gypsum -- Portland cement, anhydride cement -- Portland cement, flooring plastergypsum -- Portland cement, alumina cement -- Portland cement, alumina cement -- lime. Thermographic analysis, determinations of chemically combined water, volumetric weight and free lime, have shown a change in composition of the hydration products of Portland cement, due to action of sulfite-alcohol vinasse and calcium chloride.

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KINTSEL, M.

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CZECHOSLOVAKIA/General Division. Problems of Teaching. A-7

Abs Jour : Ref Zhur-Biologiya, No 20, 1957, 85141

Author : M. Kintsl

Inst :

Title : Study of the Potato Tuber

Orig Pub : Prirod. vedy skole, 1957, 7, No 2, 172-173

Abstract : No abstract.

Card 1/1