"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

S/020/62/144/003/013/030
B102/B108

AUTHOR: Klyuyev, Yu. A.

TITLE: Optical investigation of phase transitions under pressure

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 3, 1962, 538 - 540

TEXT: An optical method, first used by Drickamer and Slykhouse (Prop. Opt. et Acous. des fluides compr., Paris, 1959, p. 163), was modified in order to study phase transitions of first kind in polycrystalline RbCl, KBr and KCl at pressures of up to 30,000 kg/cm^2. The samples were compressed in a special chamber with two hydraulic pistons. Pressure rise and pressure drop were followed by measurements of transparency. For RbCl, KBr and KCl the transitions to another lattice type (NaCl $\longrightarrow$ CsCl) occurred at 5,000, 18,400 and 20,060 kg/cm^2, respectively. KBr and KCl were investigated in pure as well as in 10% concentration, RbCl in concentrations of less than 20%. For 13% RbCl, the pressure dependence of transparency in a cyclic measurement is shown in Fig. 3. Retardation and

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S/020/62/144/003/013/030
B102/B108

Optical investigation of phase ...

half-width of the peaks, corresponding to elasticity and rate of phase formation, respectively, were determined. The former was found to be independent of concentration, the latter increased with decreasing concentration. The retardations were 8350, 16,500 and 17,000 kg/cm^2 for RbCl, KBr and KCl, the half-widths were 500, 2400 and 2800 kg/cm^2 for 13% RbCl, 20% KBr and 20% KCl, respectively, when determined with pressure rise. In the pressure-drop period of the cycle the half widths were greater. The decrease in transparency which accompanies the phase transition is attributed to the increased light scattering from the nuclei of the CsCl-type lattice. A simple graduating method was developed. There are 4 figures.

ASSOCIATION: Institut fiziki vysokikh davleniy Akademii nauk SSSR (Institute of the Physics of High Pressures of the Academy of Sciences USSR)

PRESENTED: January 2, 1962, by A. N. Terenin, Academician

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

Optical investigation of phase ...

S/020/62/144/003/013/030
B102/B108

SUBMITTED: December 30, 1961

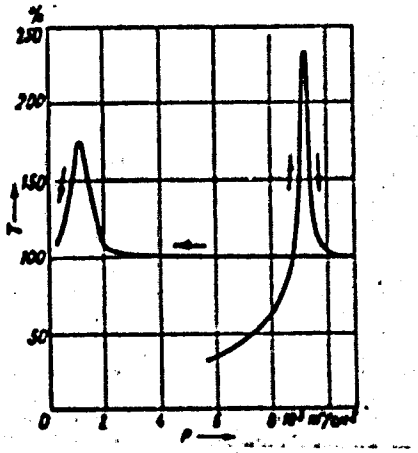

Fig. 3

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu.A.; TERENIN, A.N., akademik

Vibrational absorption spectrum of chloroform as affected by pressure. Dokl. AN SSSR 147 no.3:653-655 N '62. (MIRA 15:12)

1. Institut fiziki vysokikh davleniy AN SSSR i Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.
(Chloroform—Spectra)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 12713-63 EPF(c)/EWT(m)/BDS Pr-4 RM/WW/AB
ACCESSION NR: AP3000295 S/0020/63/150/001/0071/0074

AUTHOR: Klyuyev, Yu. A.; Oksengorn, B.

TITLE: The effect of pressure on the infrared spectrum of benzol absorption

SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 71-74

TOPIC TAGS: infrared absorption, benzol, inductive lines

ABSTRACT: The previously studied infrared absorption of benzol in the near ultraviolet region of the spectrum at low pressures has been further investigated at high pressures. By increasing the pressure to 1500 kg per square cm, the absorption line A sub n sup 0 are shifted to the red spectrum without changing the line width and the integral intensity. The results of the investigation of pressure effect up to 25,000 kg per square cm on the absorption spectrum of benzol in the overtone region of the frequency oscillation of 4000-43000 cm sup -1 are presented in a graph. The work was performed with a monochromator of the IKS-12 with a LiF prism and a lead sulfide acceptor. During the transition of benzol into a solid phase under pressure, the following inductive lines appear in the spectrum: 4071, 4090, and 4195 cm sup -1. "We express sincere gratitude to the Corresponding Member L. F. Vereshchagin, AN SSSR, who made it possible for us to carry out this work, and also to the Academician A. N. Terenin and Ye. S. Alekseyev, who took part in the discuss.

Card 1/2 Institute of High Pressure Physics, Academy of Sciences

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ACCESSION NR: AP4018383 S/0120/64/000/001/0164/0170

AUTHOR: Klyuyev, Yu. A.

TITLE: Outfit for spectral investigations under pressure

SOURCE: Pribory* i tekhnika eksperimenta, no. 1, 1964, 164-170

TOPIC TAGS: spectral study, high pressure spectral study, high pressure chamber, 30 katm spectral study chamber, Drickamer's high pressure chamber

ABSTRACT: A new outfit which uses a modification of H. G. Drickamer's high-pressure chamber (J. Opt. Soc. Am., 1957, 47, 1015) is described. The chamber is intended for spectral studies in the 0.36 - 2.5-micron range at 1-30-katm pressures; its working volume is cylindrical with a 6-mm height and 5-mm diameter. Cone-shaped windows are made from a single crystal of halite, which is pre-treated by 20-25-katm pressure for "clarification." Design features are given in Enclosure 1. A point-source zirconium DATs-50 lamp with a luminance

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ACCESSION NR: AP4018383

of 4,000 sb is used as a stable light source; wow is ±1.5% or less of the signal level. Nonlinearity of the photoelectric system is 3%; error in reproducing absorption spectra, 2-3%. "I am deeply thankful to L. F. Vereshchagin for his constant help and valuable advice during the developmental work; also to A. N. Yan and M. N. Tsingarelli who took part in building the outfit." Orig. art. has: 11 figures.

ASSOCIATION: Institut fiziki vy*sokikh davleniy AN SSSR (Institute of High-Pressure Physics, AN SSSR)

SUBMITTED: 30Jan62 DATE ACQ: 18Mar64 ENCL: 01

SUB CODE: PH NO REF SOV: 003 OTHER: 008

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ACCESSION NR: AP4013324 S/0020/64/154/003/0561/0564

AUTHOR: Klyuyev, Yu. A.

TITLE: Effect of pressure on the absorption spectrum of benzene in the near infrared region

SOURCE: AN SSSR. Doklady*, v. 154, no. 3, 1964, 561-564

TOPIC TAGS: benzene, absorption spectrum, absorption spectrum shift, frequency pressure relationship, spectrum polarizing effect, phase transition, benzene absorption spectrum

ABSTRACT: The effect of pressure (to 25,000 kg./cm^2) on the absorption spectrum of benzene in the 4000-6000 cm^{-1} region was investigated. In the liquid phase, increased pressure causes a shift toward lower frequency. Transition to the solid phase causes a sharp shift in the opposite direction and a narrowing of the absorption bands. On still further compression the bands continue to shift toward the higher frequency, but their half-width does not change significantly. This shift to higher frequency is caused by

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ACCESSION NR: AP4013324

the increase in repulsive forces due to the decrease in intermolecular distances under pressure. The shift in frequency under pressure of the 4532 and 4653 cm^{-1} bands undergoes a break at about 13000 kg/cm^2 pressure, associated with phase transition of the benzene into the second modification of the solid state. The polarizing effect of NaCl on the spectrum of the absorbed benzene at 1 $kg/cm.^2$ pressure was determined; these differences in frequencies are more pronounced under pressure. The effect of the benzene spectrum of the electric field on the surface of NaF, NaBr and KCl was also investigated. "I will take the opportunity to express sincere thanks for constant interest and valuable advice to Acad. A.N. Terenin and AN SSSR Assoc. Member L.F. Vereshchagin and also to A.N. Yan and B. Ye. Slonenko." Orig. art. has 2 figures, 2 tables and 1 equation.

ASSOCIATION: Institut fiziki vy*sokikh davleniy Akademii nauk SSSR (Institute of High Pressure Physics, Academy of Sciences SSSR)

SUBMITTED: 19Aug63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: PH NO REF SOV: 003 OTHER: 007

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KIYUYEV, Yu.I.; VOROB'YEV, A.M.

Study of the 4197 cm^{-1} absorption band of potassium ferricyanide under high pressure. Dokl. AN SSSR 158 no.6:1396-1398 O '64. (MIRA 17:12)

1. Institut fiziki vysokikh davleniy AN SSSR. Predstavleno akademikom A.N. Tereninym.

L 8210-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) [illegible]

ACC NR: AP5013859 SOURCE CODE: UR/0368/65/002/004/0336/0340

44,55

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-

AUTHOR: Kiyuyev, Yu.I.

ORG: none

TITLE: The vibrational spectrum of crystalline KSCN

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 4, 1965, 336-340

21,44,55

TOPIC TAGS: crystal lattice vibration, vibration spectrum, potassium compound, thiocyanate, crystallography

ABSTRACT: The author studies the vibrational spectrum of crystalline potassium thiocyanate. Both internal vibrations of the SCN^- ion and the combination of these vibrations with lattice or external vibrations are considered. The specimens were prepared in the form of a paste in vaseline oil or as pressed tablets. The equipment and experimental method are briefly described. The spectrum was studied in the 700--5000 cm^{-1} region. Representations of the local symmetry group C_s are used for interpretation of internal vibrations in the SCN^- ion. Combinations of internal and external lattice vibrations are analyzed in terms of representations of factor group D_{2h}. The frequency of translational vibrations is determined to be 20 cm^{-1}. It is found that a study of the infrared absorption spectrum in the region of the first harmonics for crystalline substances in which the factor group belongs to one of the

UDC: 535.338.42

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 8210-66

ACC NR: AP5013859

point groups C_{2h}, C_{4h}, C_{6h}, D_{2h}, D_{4h}, D_{3d}, D_{5d}, D_{6h}, O_h and T_d, may be used for separating the lattice translational vibrations from the libration vibrations if the corresponding bands are observed in the spectrum. This is due to the fact that the translational vibrations in all these groups are antisymmetric, while the second harmonics are symmetric, with respect to the center of inversion of a cell. In conclusion, I am sincerely grateful to Academician A. N. Terenin for scientific guidance and constant interest in the work, and to L. A. Gribov and D. S. Bystrov who took part in discussion of the paper. Orig. art. has: 3 figures, 1 table.

SUB CODE: OP,SS/ SUBM DATE: 25Dec64/ ORIG REF: 000/ OTH REF: 010

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 4430-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5018845 UR/0368/65/003/001/0042/0048
535.338.42

AUTHOR: Klyuyev, Yu. A.

TITLE: Vibrational spectrum of crystalline ferricyanides and ferrocyanides of potassium

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 1, 1965, 42-48

TOPIC TAGS: iron compound, cyanide, IR spectrum, chemical valence, crystal symmetry, anion

ABSTRACT: The author analyzes the experimental data on infrared spectra of the crystalline salts of $K_3[Fe(CN)_6]$ (I) and $K_4[Fe(CN)_6]$ (II) in the 1600 -- 500 cm^{-1} range, in order to clarify the spectral differences in the valence state of the central atoms of complex anions. He uses his own results as well as data by others. The samples were investigated in pastes with mineral oil or fluorated oil, and also in KCl pellets. The absorption spectrum of II differs from that of I in that its strongest band splits into two components of

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 4430-66

ACCESSION NR: AP5018845

3

approximately equal intensity. The appearance of the doublet structure is attributed to distortion of its anion, which acquires a symmetry D_{4h} whereas anion I has a symmetry O_h. The vibrational spectra of both salts are interpreted by taking into account the effect of the crystal field. 'I am deeply grateful to Academician A. N. Terenin for scientific direction, and also to L. A. Gribov and D. S. Bystrov for valuable remarks.' Orig. art. has: 4 figures and 4 tables.

ASSOCIATION: None

SUBMITTED: 25Dec64 ENCL: 00 SUB CODE: OP, SS

NR REF SOV: 004 OTHER: 012

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 31169-66 EWT(m)/EPF(n)-2/EWP(t)/EWP(k) IJP(c) JD/HW
ACC NR: AP6006821 SOURCE CODE: UR/0181/66/008/002/0402/0408

49
44
B

AUTHOR: Klyuyev, Yu. A.

ORG: Institute of High Pressure Physics AN SSSR, Moscow (Institut fiziki vysokikh davleniy AN SSSR)

TITLE: Spectral analysis of the lambda phase transition in ammonium chloride under pressure

27 27

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 402-408

TOPIC TAGS: spectrum analysis, phase transition, ammonium compound, chloride, crystal theory, absorption spectrum

ABSTRACT: The author considers transitions in ammonium halide salts from β-states under normal conditions to γ- or δ-states at low temperatures. Changes in the half-widths of various absorption bands for NH_4Cl under pressure are studied as a more exact method for recording the λ-transition. The band shifts under pressure are used for comparing the effect of compression on frequencies of intra-ion and external lattice vibrations in crystalline ammonium chloride. The spectrum of pressed

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 31169-66

ACC NR: AP6006821

specimens was studied in the 3000-7000 cm^{-1} range at room temperature under pressures of up to 23 kbar. A table is given showing the frequencies of fundamental and compound vibrations of the ammonium chloride crystal lattice under normal conditions. A shift in bands was observed as the pressure was increased with constriction and the appearance of new bands with maximum of 4640 and 4870 cm^{-1}. It is found from analysis of the width of absorption bands as a function of pressure that the lambda phase transition takes place at 13-15 kbar. It is shown that the $\beta \rightarrow \gamma$ transition is due to suppression of chaotic reorientations of the positive ammonium cation in the crystal lattice. The proposed mechanism is true only as a first approximation since the model loses its similarity to a spherical top as the chaotic motion is slowed down. Nevertheless, this theoretical explanation shows qualitative agreement with the experimental data. The effect of pressure on the frequencies of intramolecular and lattice vibrations in ammonium chloride is studied. A comparison of the relative variation in frequencies shows that lattice vibrations are approximately ten times more sensitive to pressure than internal deformation vibrations and about 100 times more sensitive than internal stretching vibrations at a pressure of 20 kbar. Since the frequency of lattice vibrations is determined by the interaction between ions and consequently by the interion distances, the compressibility of the salt is basically determined by the compressibility of the

Card 2/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

L 31169-66

ACC NR: AP6006821

4

interion distances. The constants of anharmonicity and their variation with pressure are measured for intramolecular deformation vibrations. In conclusion I thank A. N. Terenin for proposing the topic and constant interest in the work, as well as L. F. Vereshchagin, D. S. Bystrov and G. V. Yukhnevich for valuable consultation during preparation of this article. Orig. art. has: 3 figures, 3 tables, 5 formulas.

SUB CODE: 20/ SUBM DATE: 09Jul65/ ORIG REF: 002/ OTH REF: 011

Card 3/3 LC

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu.A.

The vibrational spectrum of crystalline potassium thiocyanate. Zhur.prikl. spekt. 2 no.4:336-340 Ap '65. (MIRA 18:8)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu.B., insh. (Sverdlovsk); KIGEL', L.S., insh. (Sverdlovsk); POKORYTOV, A.P., insh. (Sverdlovsk); PROSVIRNIN, V.D., insh.

Replacement of the primary heat carrier (steam with water) in hot water supply systems of central heating boilers. Energetik 13 no.6: 10-11 Je '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KIGEL', L.S., inzh.; Klyuyev, Yu.B., inzh.; PROSVIRNIN, V.D., inzh.

Modernization of Sterling system boilers converted to operate on fuel oil with high sulfur content. Prom. energ. 18 no.8:26-29 Ag '63. (MIRA 16:9)

(Boilers)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu.P.

Replacing the insulation in splice bars. Put' i put. khoz. no.5:9 My '58. (MIRA 13:3)

1.Brigadir Moskovskogo puti, stantsiya Uslovaya I.
(Railroads--Rails)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu. P.

KLYUYEV, Yu. P.: "Investigation of the transformation of alphapinene under the influence of boron fluoride and orthophosphoric acid". Minsk, 1955. Acad Sci Belorussian SSR. Department of Physicomathematical and Technical Sciences. (Dissertations for the Degree of Candidate of Chemical Sciences.)

So: Knishnaya letopis' No. 49 3 December 1955. Moscow.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu. P.

"Investigation of Conversion Products of α-Pinene in the Presence of Ortho-phosphoric Acid" p. 176.

with KOROTKOV, K. N. (deceased)
"Conversions of α-Pinene Under the Action of Gaseous Boron Fluoride" p. 170

Sbornik nauchnykh rabot, vyp. 6, (Collection of Scientific Works of the Institute of Chemistry, Belorussian SSR, Academy of Sciences, No. 6) Minsk, Izd-vo AN Belorusskoy SSR, 1958, 271 pp.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEV, Yu.P.

Some comments on the diagrams of isomer and polymer transformations of α-pinene effected by protic and aprotic acids (metal halides). Vestsi AN BSSR. Ser.fiz.-tekh.nav. no.2:134-136 '60. (MIRA 13:10)
(Pinene) (Phosphorus compounds) (Boron fluoride)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

YEROFEYEV, B.V. [Erafeev, B.V.]; KLYUYEV, Yu.P. [Kliuev, IU.P.]

Studying the mechanism of transformation of α-pinene under the influence of orthophosphoric acid applied to activated birch charcoal. Vestsi AN BSSR. Ser. Fiz.-tekh. nav. no. 4:29-41 '60. (MIRA 14:1)

(Pinene) (Phosphoric acid)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

TETERIV, Mikhail Nikolayevich; KLYUYEV, Yuriy Vladimirovich; VOLOGDIN, L.A., inzh., retsenzent; KONYAYEV, V.G., inzh., retsenzent; MILOKHOV, A.A., inzh., retsenzent; UGRYUMOV, G.A., inzh., retsenzent; KIMEL'NITSKIY, L.I., inzh., red. VOROTNIKOVA, L.F., tekhn. red.

[Mechanization of the intrastation conveying of documents] Mekhanizatsiia vnutristantsionnoi peresylki dokumentov. Moskva, Transzheldorizdat, 1962. 68 p. (MIRA 15:7)
(Railroads--Stations) (Pneumatic-tube transportation)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, A.A.; SHAROV, A.S.

Apparatus for inducing an epileptiform electroconvulsive seizure in animals. Trudy 1-go MMI 26:409-413 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

IVANOVA, M.A.; KLYUYEVA, A.D., dotsent, zaveduyushchiya kafedroi marksizma-leninizma Moskovskogo farmatsevticheskogo instituta; DOBRYNINA, V.I., dotsent, direktor Moskovskogo farmatsevticheskogo instituta.

I. V. Stalin's work "Economic problems of socialism in the U.S.S.R." is a great contribution to the treasure house of theories of Marxism and Leninism. Apt.delo 2 no.2:7-13 Mr-Ap '53. (MLRA 6:5)

1. Kafedra marksizma-leninizma Moskovskogo farmatsevticheskogo instituta Ministerstva zdravookhraneniya SSSR. (Economics)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

NEMAKOV, N.I., dots., red.; KLYUYEVA, A.D., dots., red.; BUKANOVA, L.P., red.; GEORGIYEVA, G.I., tekhn. red.

[Communist Party of the Soviet Union in the drive for the socialist transformation of agriculture; collected articles] KPSS v bor'be za sotsialisticheskoe preobrazovanie sel'skogo khoziaistva; sbornik statei. Moskva, 1961. 231 p. (MIRA 14:9)

1. Moscow. Universitet. Kafedra istorii KPSS gumanitarnykh fakul'tetov.

(Agriculture)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, A.G.; ALEKSANDROVICH, B.L.; KOROLEV, G.G.

New grade of steel for round dies. Stan.i instr. 31 no.3:24-26 Mr '60. (MIRA 13:6)
(Tool steel)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

PLETNEV, N.F.; KLYUYEVA, A.N.

Efficient chemical analysis for antimony compounds. Trudy Ural. politekh. inst. no.98:5-10 '60. (MIRA 14:3)
(Tailings(Metallurgy)—Analysis)
(Antimony compounds—Analysis)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, A.S.

Field determination of seepage losses in irrigation canals. Trudy Inst.vod.khoz.i energ.AN Kir.SSR no.1:27-39 '54. (MLRA 9:11)
(Soil percolation) (Irrigation canals and flumes)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, A.V.

SMIRNOV, V.I., professor; KLYUYEVA, A.V., inzhener.

Investigation of forehearth accretions. TSvet.met. 28 no.1:46-48 Ja-F '55. (MIRA 10:10)

(Blast furnaces)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

SMIRNOV, V.I.; YAKLOMSKIY, Yu.A.; KLYUYEVA, A.V.

Examination of slags at the Irtysh copper smelting plant. Tsvet.met. 29 no.9:22-24 S '56. (MLRA 9:10)
(Irtysh Valley--Copper--Metallurgy)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, A.V.; SMIRNOV, V.I.

Effecient method of analyzing the products of copper smelting for types of metal compounds. Trudy Ural. politekh. inst. no.98: 59-66 '60. (MIRA 14:3)

(Copper—Metallurgy) (Copper compounds—Analysis)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KHUDYAKOV, I.P.; [redacted]YEVA, A.V.; SMIRNOV, V.I., akademik

Conditions of the oxidation of ferrous sulfate and of the hydrolysis of the oxidation products in autoclave processes. Dokl. AN SSSR 148 no.3:654-657 Ja '63. (MIRA 16:2)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.
2. AN KazSSR (for Smirnov).
(Iron sulfates) (Oxidation) (Hydrolysis)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

YABLONSKIY, Yu.A.; SMIRNOV, V.I.; KLYUYEVA, A.V.; RYZH, Ye.I.; BUROV, G.D.

Cobalt precipitation from lean solutions by sodium sulfide. Sbor. nauch. trud. Ural. politekh. inst. no.134:46-53 '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, A.V.; KHUDYAKOV, I.F.

Efficient composition of the intermediate products of the cobalt production. Sbor. nauch. trud. Ural. politekh. inst. no.134:54-64 '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

TIKHONOV, A.I.; KLYUYEVA, A.V.

Leaching nickel-cobalt ores with sulfuric acid solutions. Sbor. nauch. trud. Ural. politekh. inst. no.134:32-39 '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ZIKMUND, Miroslav; GANZELKA, Irshi [Hanzelka, Jiri]; BABIN, S. [translator]; NAZAROV, R. [translator] [redacted], B., red.; MIKHAYLOVSKAYA, N., tekhn. red.

[Half-moon turned over] Perevernutyi polumesiats. Moskva, Molodaia gvardiia, 1963. 341 p. (MIRA 16:8)
Abridged translation from the Czech.
(Balkan Peninsula--Description and travel)
(Near East--Description and travel)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

SOV/126-7-3-30/44

AUTHORS: Arkharov, V. I., Vangengeym, S. D. and Klyuyeva, I. B.

TITLE: X-Ray Investigation of Intercrystalline Internal Adsorption in Copper Base Alloys (Rentgenograficheskoye issledovaniye mezhkristallitnoy vnutrenney adsorbtsii v splavakh na osnove medi)

PERIODICAL: Fizika metallov i metallovedeniye, Vol 7, Nr 3, pp 457-458 (USSR)

ABSTRACT: Reversible changes in the lattice parameter with change in grain size of polycrystalline solid solutions have been observed by Arkharov et alia (Refs.1, 2) in a series of binary and ternary alloys. These changes can be explained on the basis of an earlier hypothesis proposed by Arkharov (Ref.3) of the intercrystalline internal adsorption. In the present work the effect of reversible lattice parameter change has been observed in the alloy systems Cu-Ag, Cu-Mg and Cu-Sn. The systems were chosen so that the addition elements should have a different valency. Alloys with horophile (positively active relative to internal adsorption) addition contents of the order of 1 - 2% were melted in a

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SOV/126-7-3-30/44

X-Ray Investigation of Intercrystalline Internal Adsorption in Copper Base Alloys

high frequency induction furnace. The ingots were homogenized, and after forging and supplementary annealing were cut into separate specimens. The latter were transformed by thermomechanical treatment, into either the fine-grained or coarse-grained state. In order to obtain a fine grain size (of the order of 0.05 mm) the specimens were thoroughly forged and annealed in a temperature range of 550 - 600°C; in order to ensure a course grain size they were reduced in a press by 5 - 10% and annealed at 800 - 900°C. After each annealing a layer, 1 mm thick, was removed from the specimens by means of concentrated nitric acid. The grain size was determined metallographically after etching in a solution of ammonium persulphate and ammonia. An X-ray investigation of the lattice parameter of the solid solutions was carried out by the Zaks method in a KROS-1 camera, using Co-irradiation. The results of the X-ray investigation are compiled in the table on p 458.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

SOV/126-7-3-30/44

X-Ray Investigation of Intercrystalline Internal Adsorption in Copper Base Alloys

There is 1 table, and 3 Soviet references.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni A. M. Gor'kogo (Ural State University imeni A. M. Gor'kiy)

SUBMITTED: October 16, 1958

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

67733

18.1220

SOV/126-7-3-41/44

AUTHORS: Arkharov, V. I., Vangengeym, S. D. and Kiyuyeva, I. B.

TITLE: On the Causes of Brittleness of Certain Copper Alloys (K voprosu o prichinakh khrupkosti nekotorykh mednykh splavov)

PERIODICAL: Fizika metallov i metallovedeniye, Vol 7, Nr 3, pp 476-477 (USSR)

ABSTRACT: Data exist of the fact that additions of Sb (of the order of a few tenths of %) to Cu lead to a steep decrease in the impact resistance of the alloy (Refs.4 and 5). In this connection McLean (Ref.4) has established a hypothesis which coincides in its content with that pronounced earlier by Arkharov (Ref.1), and according to which the brittleness of copper containing antimony must be due to a "segregation without precipitation from the solid solution" of antimony atoms in the intercrystalline boundary region. In such a case, by bringing about preferential internal adsorption of Be in the intercrystalline zones, a complete (or nearly complete) displacement of Sb from these zones can be brought about, resulting in a rise of the impact resistance of an alloy with the same antimony content. The aim of

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

67733
SOV/126-7-3-41/44

On the Causes of Brittleness of Certain Copper Alloys

the present work was to confirm this assumption. The following alloys were selected for study: (1) Cu + 1% Sb + 0.2% Be; (2) Cu + 1% Sb + 0.6% Be; (3) Cu + 1% Sb + 1% Be. The purity of the original copper was 99.99%. Ingots (melted under a borax layer in a graphite crucible) were forged into rods of square cross-section and given a homogenising anneal (900°C, 35 hours). From these forgings specimens for impact testing were made (bars, 60 x 10 x 10 mm, with a hemispherical notch in the central line, 1 mm deep). From the remaining portion of the forgings specimens for X-ray investigation were made. X-ray investigation results have shown that preferential internal adsorption of Sb occurs in the first series of alloys; in the second and third series beryllium is preferentially internally adsorbed. Specimens for impact testing were annealed in an iron container which was covered with carbon, at 600°C for 20 hours. One half of the specimens of each series were quenched in water, the other half were slowly furnace cooled. The tests were carried out on a 30 kg pendulum impact machine. The second (reference) batch of specimens in contrast to the first were melted in evacuated and sealed quartz ampoules (10^{-4} - 10^{-5} mm Hg). The dimensions of these specimens were 40 x 5 x 5 mm.

Card 2/4

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

67733
SOV/126-7-3-41/44

On the Causes of Brittleness of Certain Copper Alloys

Their composition was chosen so as to decrease the concentration of beryllium to the greatest extent without changing the conditions for its preferential internal adsorption. In alloys containing Cu + 0.2% Sb + 0.2% Be, and those containing Cu + 0.5% Sb + 0.2% Be preferential internal adsorption of Be occurred; in alloys containing Cu + 1% Sb + 0.2% Be preferential internal adsorption of Sb occurred. The results of impact tests of specimens of the first and second batch have shown that the impact resistance in slowly cooled specimens did not change greatly with changing composition; in quenched specimens in the same cases, however, when antimony was preferentially adsorbed at the intercrystalline boundaries, the impact resistance was greatly lowered as compared with that of the specimens at which Beryllium was preferentially internally adsorbed. Thus it can be seen that the harmful influence of antimony on the impact resistance of copper can be diminished.
There are 6 references, of which 4 are Soviet and 2 English.

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ACC NR: AP7005132 SOURCE CODE: UR/0126/66/022/004/0563/0568

AUTHOR: Parfenov, V. V.; Mulyukov, Kh. Ya.; Kuranov, A. A.; Klyuyeva, I. B.

ORG: Ural State University im. A. M. Gor'kiy (Ural'skiy gosuniversitet)

TITLE: Effect of dimensions of the specimen on the formation of magnetic properties in the cobalt-platinum alloy

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 4, 1966, 563-568

TOPIC TAGS: cobalt alloy, platinum alloy, magnetic coercive force, magnetic susceptibility

ABSTRACT: When in high-coercive state, Co-Pt alloys form a fine-disperse two-phase system, which accounts for their high coercive force and magnetic energy. The principal factors in the effect of such a structure of the alloy on its magnetic properties must be: the nature of the phases formed, their amount, shape and pattern of distribution. If that is so, then the variation in the magnetic characteristics of these alloys during the various regimes of their heat treatment must follow the same laws as in the case of pressed ferromagnetic powders with change in their nature, size, packing density, etc. To further elucidate this nature of the magnetic properties of these alloys, the authors investigated the effect of sheet (1 to 10^{-3} mm).

Card 1/2 UDC: 546.3-19'73'92:538.22

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

ACC NR: AP7005132

thickness and wire diameter (diameter 1 to $2 \cdot 10^{-2}$ mm) on the processes of magnetization and magnetization reversal following various types of thermomechanical treatment (quenching, tempering at 600, 630, 650, 700 and 750°C for 1 hr, rolling). The principal magnetic characteristics were measured in an electromagnet in fields of up to 20,000 oe at 77 and 300°K with the aid of a high-sensitivity magnetometer. Findings: following quenching coercive force is low (~10 oe) and magnetization saturation is maximal (~720 gauss). The smaller the thickness of the specimen the higher the coercive force is, and the lower the initial susceptibility is. With increase in tempering temperature coercive force initially increases until it reaches a peak (~630-680°C) after which it begins to decrease; for initial susceptibility an opposite pattern is observed. On the other hand, magnetization saturation steadily decreases with increase in tempering temperature. In specimens whose thickness is reduced by means of cold grinding or etching from 1 mm to $5 \cdot 10^{-2}$ mm (i.e. with conversion from three-dimensional to two-and one--dimensional cases) coercive force decreases and initial susceptibility increases. Thus the size of specimens (on transition from three-dimensional specimens to two- and one-dimensional cases) markedly affects the formation of magnetic properties of the Co-Pt alloy. It is presumed that the decrease in coercive force with decrease in thickness following optimal treatment is associated with the change in the dispersity of particles and in their magnetic interaction. "In conclusion the authors wish to express their appreciation to N. I. Solov'yev for preparing the specimens." Orig. art. has: 6 figures.

SUB CODE: 20, 11/ SUBM DATE: 14Sept65/ ORIG REF: 003/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, K.A.

The most efficient method of determining the mean precipitation layer in hydrological calculations made in White Russia. Sbor.rab.Minsk. GMO no.1:67-82 '58. (MIRA 12:3)
(White Russia--Precipitation (Meteorology)--Measurement)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, K.A.; IVANOV, K.Ye., doktor geogr.nauk, red.; KORNILENKO, V.S., red.; ZAKKH, I.M., tekhn.red.

[Effect of swamps in the drainage basin on annual distribution of streamflow in rivers of the White Russian S.S.R.] Vliianie zabolochennosti vodosborov na vnutrigodovoe raspredelenie stoka rek BSSR. Pod red. K.E.Ivanova. Moskva, Gidrometeor.izd-vo, 1959. 233 p. [___ Graphs] ___ Grafiki. (MIRA 13:6)
(White Russia--Rivers) (Swamps)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

3(7) SOV/50-59-6-3/17

AUTHOR: Klyuyeva, K. A.

TITLE: On the Problem of the Effect of Drainage of Bogs Upon River Discharge (K voprosu o vliyanii osusheniya bolot na rechnoy stok)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 6, pp 17 - 20 (USSR)

ABSTRACT: During the last years intensive preparations were made in Belorussiya for the drainage of bogs in the Polessiye lowland. No agreement was achieved in connection with one problem that was not clear: the effect of drainage upon the hydrological conditions of the rivers and the ways and means of how to preserve the economic importance of the rivers also in future. In this connection the Minskaya gidrometeorologicheskaya observatoriya (Minsk Hydrometeorological Observatory) carried out investigations on the role of bogs in charging the rivers. To begin with certain data which were physically founded were obtained on the effect of the conversion into a marsh of drainage areas upon the annual distribution of the river discharge. Next, it was attempted

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

On the Problem of the Effect of Drainage of Bogs Upon River Discharge SOV/50-59-6-3/17

to check these data indirectly, i.e. in an already drained basin the attempt was made to determine all possible changes in the river discharge after the area has been drained. For this purpose data were used which had been obtained for the drained basin of the Oressa river (tributary of Pticha-Pripyat') at the water-gauge station Andreyevka for the time before and after the melioration work. This basin covers 3620 km^2, 40% of which consist of marshland. Regulation work was started in 1927, continued in 1929-1935 and 1936 in the time of 1948-1951 additional work was carried out. The work as it was individually carried out is shown here. The analysis of the data of the annual discharge shows that the drainage in the Oressa basin exercised an effect upon the distribution of discharge in this year, but not upon the total annual amount of water of the river. The analysis permits the general conclusion that a drainage exercises a favorable effect upon the charge of rivers. A re-distribution of the discharge takes place in the drained areas, in the course of a year, i.e. the discharge is compensated. The latter statement is explained. Thus it

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

On the Problem of the Effect of Drainage of Bogs Upon River Discharge SOV/50-59-6-3/17

may be said that the drainage of rivers in Russia will yield no negative results. There is 1 figure.

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLUYEVA, K.A.

Division of the White Russian S.S.R. into regions by uniform conditions of minimum streamflow formation. Meteor. i gidrol. no.1:36-40 Ja '61. (MIRA 14:1)

(White Russia--Hydrology)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLIUYEVA, K.A.

Dividing the White Russian S.S.R. into regions based on monotypical conditions of the formation of the minimum flow in rivers. Sbor. rab. po gidrol. no.2:131-136 '61. (MIRA 15:2)

1. Upravleniye gidrometeorologicheskoy sluzhby BSSR.
(White Russia—Runoff)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

S/193/63/000/003/003/003
A004/A101

AUTHORS: Morozov, M. Ye., Candidate of Technical Sciences, Klyuyeva, K. D.

TITLE: Type МГП-3 (MOP-3) spray gun for the application of high-melting coatings

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no.3, 1963, 24 - 26

TEXT: The Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov (All-Union Scientific Research Institute of Oxyacetylene Welding and Cutting of Metals) (VNIIAvtogen) has developed the MOP-3 spray gun for the application of high-melting coatings, which is to replace the MOP-1 model. The new MOP-3 spray gun uses for these coatings specially manufactured ceramic rods (aluminum oxide, zirconium dioxide), wires (molybdenum, nichrome) or flexible cored strings produced from a mixture of fine-grained material to be sprayed on (~ 75%) and a thermoplastic binder (~ 25%). The spray guns operates on an oxyacetylene gas mixture which makes it possible to apply coatings of materials having a melting point of up to 2,800°C. The following technical data are given: capacity, g/hour: coatings of Al-oxide - 200-250, zirconium dioxide - 150-170,

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

Type МГП -3 (MGP-3) spray gun for the... S/193/63/000/003/003/003
A004/A101

molybdenum - approx. 1,400; rotation speed of the pneumatic rotation motor - up to 12,000 rpm; feed rate mm/min - from 90 to 850; diameter of blanks of material to be sprayed on: rods - 3±0.1, flexible strings - 3±0.1, wires - 3; operating gas pressure, kg/cm^2: acetylene - 1.0-1.1, oxygen - 3-4, air - 3-4; gas consumption, l/hour: acetylene - 1,800-2,300, oxygen - 1,100-1,250; air consumption, m^3/min - 0.5-0.6; total weight of spray gun (without hoses), kg - 1.8. There is 1 figure.

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

MOROZOV, M.Ye., kand. tekhn. nauk; PERETYAT'KO, I.P., inzh.; KLYUYEVA, K.D., inzh.

Maximum limit of the increase in the output of electrometallization equipment. Trudy VNIIAvtogen no.11:117-130 '64. (MIRA 18:3)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

GEL'PERIN, N.I.; AYNSHTEYN, V.G.; KLYUYEVA, L.M.

Determination of the specific gravity of ion exchange resins in a hydrated state. Zav.lab. 27 no.11:1375-1376 '61. (MIRA 14:10)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Ion exchange resins)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

BRAZHNIKOVA, M.G.; LOMAKINA, N.N.; LAVROVA, M.F.; TOLSTYKH, I.V.; YURINA, M.S.; KLYUYEVA, L.M.

Isolation and properties of ristomycin. Antibiotiki 8 no.5:392-396 My'63 (MIRA 17:3)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, L.N.

In the diamond city of Yakutia. Vest. sviazi 25 no. 11:27-29 N '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

5.3400

77664
SOV/80-33-2-39/52

AUTHORS: Klyuyeva, M. L., Mishchenko, K. P., Fedorov, M. K.

TITLE: Brief Communications. Vapor Pressure of Methanol From 5 to 50°

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp 473-475 (USSR)

ABSTRACT: Vapor pressure of purified methanol was carefully measured. The water content in methanol was not over 0.1% (Fisher). There are 2 tables; and 11 references, 4 Soviet, 4 German, 2 U.S., 1 U.K. The U.S. and U.K. references are: G. W. Thomson, Chem. Rev., 38, 1 (1946); W. Ramsay, S. Young, Phil. Trans, (A), 178, 313 (1887); O. F. Tower, and A. F. Germann, J. Am. Chem. Soc., 36, 2449 (1914)

SUBMITTED: July 2, 1959

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

Brief Communications. Vapor Pressure of Methanol From 5 to 50°

77664
SOV/80-33-2-39/52

Table 1. Key to Table 1: (a) temperature (in °C); (b) pressure P (in mm); (c) test series number; (d) average for two series; (e) calculated; (f) P calculated-P found (in mm); (g) = $\frac{\Delta P}{P \text{ found}}$ (in %).

a	b				f	g
	c		d	e		
	I	II				
11.9	62.07	62.28	62.2	61.97	−0.23	−0.37
14.69	72.63	72.57	72.6	72.57	−0.03	−0.04
17.72	85.87	85.98	85.8	85.84	+0.04	+0.05
22.06	107.80	108.32	108.1	108.40	+0.30	+0.28
24.93	125.91	126.75	126.3	126.00	−0.30	−0.24
30.15	164.46	165.22	164.8	164.20	−0.60	−0.36
34.59	203.50	204.55	204.0	203.90	−0.10	−0.05
37.80	233.70	236.04	234.9	235.40	+0.50	+0.21
39.76	258.73	260.38	259.6	260.30	+0.70	+0.27
42.69	297.54	298.29	297.9	297.70	−0.20	−0.07
45.39	337.30	337.53	337.4	336.00	−1.40	−0.41
48.53	386.00	387.37	386.7	385.90	−0.80	−0.21
50.21	412.32	414.28	413.3	415.00	+1.70	+0.41

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, M.L.; MISHCHENKO, K.P.; FEDOROV, M.K.

Solubility of picric acid in methyl alcohol in the temperature range from 5° to 50°. Trudy LTI no.61:47-51 '60. (MIRA 15:5)
(Picric acid) (Solubility)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

MISHCHENKO, K.P.; KLYUYEVA, M.L.

Thermochemistry of nonaqueous electrolyte solutions. Part 3: Heats of solution of NaI and KI in methanol. Teoret. i eksper. khim. 1 no.2:201-204 Mr-Ap '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

MISHCHENKO, K.P.; REZNIKOV, I.L.; KLYUYEVA, M.L.; SOKOLOV, V.V.; POLYAKOV, Yu.A.

Thermochemistry of carnallite dehydration. Zhur.prikl.khim. 38 no.9:1939-1944 S '65. (MIRA 18:11)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, M.P.

P

USSR/General and Special Zoology. Insects. Injurious Insects and Ticks. Pests of Cereal Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49586

Author : Khakhan I.B., Klyuyeva M.P., Rozinskiy Sh.A.
Inst : All-Union Institute of Plant Protection, Moldavian Station.
Title : The Destructive Agents and Diseases of Corn in MSSR in 1955 (Preliminary Report).

Orig Pub : Sb. tr. Mold. st. Vses. in-ta zashchity rast., 1957, vyp. 2, 29-36

Abstract : The following destructive agents of corn are found in Moldania: wireworms and pseudo-wireworms, larvae of chafers (scarabaeidae), the Gryllotalpa cricket, corn and sand beetles of the Tenebrionidae family, sprout flies (Chortophila florilega Zett.), winter owlet moth (Euxoa segetum Schiff.), grey and black beet weevils, the Swedish fly, lothrus beetles, the striped grain flea, the leaf-

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SOKOLOV, A.G.; KLYUYEVA, N.D.

Spectrophotometric determination of allyl alcohol. Zhur. anal. khim. 20 no.6:759-760 '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Moskva.

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[redacted], AND A. V. [redacted]

"The Phenomenon of Allergy in Rheumatism," Materialy kliniki po vozrastnoy patologii (Clinical Material in Age-Group Pathology), published by VIEM, 219-251, 1937

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLUYEVA, N. G.

11G

ca

Cancerolytic substance of Schizotrypanum cruzi. N. G. Kluyeva and G. I. Roskin (Acad. Med. Sci. U.S.S.R.). Trudy Dela 36, 107(1946).—A review of work done since 1930 (on animals) and since 1931 (clinical) on cancerolytic activity of a material present in Schizotrypanum cruzi. The active substance is water-sol., filterable, stable to alc. and acids, and appears to be connected with a definite portion of the protoplasm. It appears to have a definitely selective cancerolytic effect without harmful effects on the healthy tissues. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, N. G., AND E. N. CINTSBURG,

"Fundamental Principles of Combined Vaccination," ZhMEI, 7, 3-13, 1948

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, N. G.

2

Anticancer antibiotics. N. G. Klyueva and O. I. Roskin. *Uspekhi Sovremennoi Biol.* 41, 55-79(1956). A review of action of bacterial products on experi. malignant tumors and in the clinic, influence of bacteriophage and viruses on malignant tumors, action of filtrates of fungal cultures and of products of yeast cells on tumors, action of antibiotics produced by pharmaceutical industry on tumors, and anticancer antibiotics from Streptomyces (rays and other organisms. Cancer cells are labile under the action of antiblastic agents of bacterial origin. I. A. Stekol

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUYEVA, N.G.

[redacted]

[Problem of anticancer antibiotics; regression of malignant tumors under the influence of factors of microbial origin] Problema protivorakovykh antibiotikov; obratnoe razvitie zlokachestvennykh opukholei pod vliianiem faktorov mikrobnogo proiskhozhdeniia. Moskva, 1957. 247 p. (MIRA 10:11)
(CANCER) (ANTIBIOTICS)

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ARESHKINA, L.Ya.; BEKER, M.Ye.; BUKIN, V.N.; KARKLIN'SH, R.Ya. [Karklins, R.]; KLYUYEVA, N.M.; KUTSEVA, L.S.; LIYEPIN'SH, G.K. [Liepins, G.]

Microbiological synthesis of L-lysine. Prikl. biokhim. i mikrobiol. 1 no.4:396-403 Jl-Ag '65. (MIRA 18:11)

1. Institut biokhimii imeni A.N.Bakha AN SSSR, Institut mikrobiologii imeni A.Kirkhensteyna AN Latviyskoy SSR i Rizhskiy zavod biokhimicheskikh preparatov.

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KUTSEVA, L.S.; ARESHKINA, L.Ya.; KLYUYEVA, N.M.; [illegible], Ye.F.

Control methods in the production of lysine. Prikl. biokhim. i mikrobiol. 1 no.2:217-221 Mr-Ap '65.

(MIRA 18:11)

1. Institut biokhimii imeni A.N.Bakha AN SSSR, Moskva.

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1. KHODOROV, E. I.: KICHKINA, Ye. S.: KLYUYEVA, N. N., Eng.

2. USSR (600)

4. Kilns, Rotary

7. Examining the processes of heat exchange and movement of material in rotary kilns with various internal equipment on models. TSement 18 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

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KLIUYEVA, N.Ye.

Causes of eye injuries to agricultural machine operators. Sov.med. 18 no.5:29-31 My '54. (MLRA 7:5)

1. Iz glaznoy kliniki (zaveduyushchiy - professor A.G.Krol') Kurskogo meditsinskogo instituta (direktor - professor G.Ye.Ostrovorkhov). (Eye--Wounds and injuries)

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KLYUYEVA, N. Ye. Cand Med Sci -- (diss) "Eye injuries among agricultural mechanizers." Simferopol', 1957. 10 pp 21 cm (Crimean State Med Inst im I. V. Stalin), 100 copies.
~~(KL, 15-57, 107)~~ Replaces Entry No 10358 in KL, No 9, 1957.
(KL, 15-57, 107)

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KLYUYEVA, N.Ye.

Outcome of an early and a late removal of traumatic cataract. Sbor. trud. Kursk. gos. med. inst. no.16:93-98 '62. (MIRA 17:9)

1. Iz kliniki glaznykh bolezney (zav. - prof. A.G. Krol') Kurskogo meditsinskogo instituta.

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MIKHAYLOV, N.V.; KLYUYEVA, O.A.; GORBACHEVA, V.O.; FAYNBERG, E.Z.

Elucidation of the relation between the structure and orientation of the molecular chains in polyethylene terephthalate. Vysokom.soed. 2 no.6:942-946 Je '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.
(Terephthalic acid) (Polyethylene)

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MIKHAYLOV, N.V.; OCHRACHEVA, V.O.; KOVALEVA, V.P.; KLYUYEVA, O.A.

Structure of polyamides obtained by interfacial polycondensation. Vysokom. soed. 2 no.8:1283-1286 Ag'60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Polyamides)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

USSR/Farm Animals: Domestic Birds Q-5

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 50092

Author : Klyuyeva S.G.
Inst : Academy of Sciences UzbSSR
Title : Anomalies in the Content of Duck Eggs

Orig Pub : Dokl. AN UzSSR, 1957, No 3, 59-60

Abstract : Green spots are sometimes found on the yolks of duck eggs. A thourough examination of these spots revealed that they contain uric acid. Apparently, due to some motor distubbances within the cloaca, uric acid gets into the oviduct and subsequently passes into the egg at the moment of its formation.--A.P. Shmatova

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

KLYUEVA, S.O.

Histogenesis of some organs in duck embryos in connection with periodical variations in growth and respiration. Uzb.biol.zhur. no.6:85-90 '58. (MIRA 12:1)

1. Institut zoologii i parasitologii AN UzSSR.
(Embryology--Birds) (Ducks)

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KLYUYEVA, S.G.

Some observations on the death of ducks in the embryonic stage. Dok. AN Uz.SSR no.10:61-64 '58. (MIRA 11:12)

1. Institut zoologii i parazitologii AN UzSSR. Predstavleno akademikom AN UzSSR S.S.Kanashom.
(Ducks)

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KLYUYEVA, S.O., Can Biol Sci (dis) — "On the ~~[illegible]~~ mutual relationship between physiological and morphogenetic processes in duck embryogenesis." Tashkent, 1959. 20 pp with graphs (Acad Sci UzSSR. Inst of Zoology and Parasitology), 175 copies (KL,27-59, 119)

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KIKUYEVA, S.G.

Physiology of the embryonic development of the Turkestan agama. Dokl.AN Uz.SSR no.3:53-56 '59. (MIRA 12:7)

1. Institut zoologii i parazitologii AN UzSSR. Predstavleno akademikom AN UzSSR T.Z.Zakhidovym.
(Lizards)

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KOZLOV, V.A.; KLYUYEVA, S.N.; VOYNO-YASENETSKAYA, Ye.M.

Variations of neutrophil leucocytes in the blood during the cycle changes in solar activity. Nek. vop. klim. i kraev. pat. no.3:26-36 '63. (MIRA 18:10)

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KLYUYEVA, V.A.; FURTES, V.V.

History of the development and relief types of the northeastern Azov Sea region. Izv. AN SSSR. Ser. geog. no.4:86-92 Jl-Ag '65. (MIRA 18:8)

1. Rostovskiy gosudarstvennyy universitet.

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KLYUYEVA, V. A., Cand Geog Sci -- (diss) "Landslides of the Tsimlyansk reservoir and their effect upon the reshaping of the banks." Rostov-on-Don, 1957. 19 pp; 1 sheet of tables. (Rost-on-Don State Univ), 100 copies. (KL, 9-58, 114)

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KLYUYEVA, V.A.

Slides of Tsymlyansk-Reservoir shores in 1955. Uch. zap. ROU 44: 195-201 '59. (MIRA 14:1)
(Tsymlyansk Reservoir--Landslides)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310019-5

PECHERSKIY, D.M.; KLYUYEVA, V.N.; KAZAKOVA, G.P.

Results of the paleomagnetic study of a cross section of volcanic formations in the central part of the central range of Kamchatka. Izv. AN SSSR. Ser. geol. 30 no.7: 74-94 Jl '65. (MIRA 18:7)

1. Severo-Vostochnyy kompleksnyy nauchno-issledovatel'skiy institut Sibirskogo otdeleniya AN SSSR i Severo-Vostochnoye geologicheskoye upravleniye, Magadan.

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ZHELEZNYAKOVA, M.A.; KLYUYEVA, Ya.P.; STREL'TSOV, N.N., redaktor; AKATOVA, V.P., [redacted], tekhnicheskiy redaktor

[Construction and operation of gas equipment in public enterprises] Ustroistvo i ekspluatatsiia gazovogo khoziaistva kommunal'nykh predpriiatii. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 218 p. (MLRA 8:10)
(Gas distribution)

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KLYUYEVA, Ye.P., insh.

Eliminate shortcomings in operating city gas distribution systems. Bezop.truda v prom. 4 no.2:17-18 F '60. (MIRA 13:5)

1. Moskovskiy gorodskoy okrug Gosgortekhnadzora RSFSR. (Gas distribution)

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GALANOV, I.G., otv. red.; MATLAKHOV, S.G., otv. red.; POLESIN, Ya.L., red.; BOGOMOLOV, A.I., red.; ZHELEZNYAKOVA, M.A., red.; ZHIDOVETSKIY, B.V., red.; ZIL'BERSHTEYN, I.A., red.; KANER, I.Ye., red.; KLYUYEVA, Ye.P., red.; KOZLOVA, Ye.I., red.; MAKAROV, A.D., red.; SAMARTSEV, A.I., red.; SOLOPKO, A.P., red.; TIKHONOV, V.A., red.; VOLKOVA, V.A., ved. red.

[Safety regulations in the gas industry; regulations obligatory for all ministries, departments, and organizations] Pravila bezopasnosti v gazovom khoziaistve; pravila obiazatel'ny dlia vsekh ministerstv, vedomstv i organizatsii. Perer. i dop. izd. Moskva, Nedra, 1965. 143 p. (MIRA 18:3)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

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ZHELEZNYAKOVA, M.A.; KLYUYEVA, Ye.P.; STREL'TSOV, N.N., red.; PANCHENKO, M.F., red.izd-va; NAZAROVA, A.S., tekhn.red.

[Operation of gas systems of communal enterprises] Ekspluatatsiia gazovogo khoziaistva kommunal'nykh predpriiatii. Izd.2. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 219 p. (MIRA 13:12)

(Gas distribution) (Gas appliances)

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SELIMOV, Midat Abdurakhmanovich; KLYUKEVA, Ye.V.; SEMENOVA, Ye.V.
KANTOROVICH, R.A., red.

[Contemporary methods for the laboratory diagnosis of rabies] Sovremennye metody laboratornoi diagnostiki beshenstva. Moskva, Meditsina, 1964 p. 56 p.
(MIRA 17:9)

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KISELEVA, V.N.; KLYUYEVA, Z.L.; MOTUZNAYA, L.A.

Treatment of cancer of the corpus uteri with radioactive cobalt beads. Med. rad. 10 no.7:24-27 Jl '65. (MIRA 18:9)

1. Radiologicheskoye otdeleniye (zav. - kand. med. nauk M.A. Volkova) Nauchno-issledovatel'skogo onkologicheskogo instituta imeni P.A.Gertsena Ministerstva zdravookhraneniya RSFSR, Moskva.

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KLYUYEVA-YABLOKOVA, T.B.; RAKHIMOVA, N.G.; SUBBOTINA, Yu.L.

Preparation of dry BCG vaccine for intradermal application. Trudy IEMG no.8:263-270 '61. (MIRA 17:2)

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KOCHUROV, Yuriy Dmitriyevich; MOREV, Petr Georgiyevich; MART'YANOV, Mikhail Mikhaylovich; SHAPROV, Mikhail Fedorovich; KLYUYEVSKIY, Fedor Mikhaylovich; BLIDCHENKO, I.F., inzh., retsenzent; GRISHIN, K.S., inzh., retsenzent; IVANOV, S.N., inzh., retsenzent; KUZINA, Z.P., inzh., retsenzent; MUSAL'YAN, A.T., inzh. retsenzent; SAL'MAN, R.V., inzh., retsenzent; SOBAKIN, V.V., inzh., red.; USENKO, L.A., tekhn. red.

[Manual for the personnel of chemical and technical laboratories in the field and at depots] Rukovodstvo rabotnikam dorozhnykh i depovskikh khimiko-tekhnicheskikh laboratorii. Izd.2., ispr. i dop. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1962. 211 p. (MIRA 15:4)

(Railroads—Equipment and supplies)
(Engineering laboratories)

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