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18.3100

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SOV/149-60-1-15/27

AUTHORS: Sokolov, O. K., Belyaev, A. I.

TITLE: Physico,Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Tsvetnaya metallurgiya, 1960, Nr 1, pp 108-114 (USSR)

ABSTRACT: A study of physico-chemical properties of pseudo-ternary systems (I) $nNaF \cdot AlF_3$-CaF_2-MgF_2 and (II) ($nNaF \cdot AlF_3$ + 5% by wt Al_2O_3)-CaF_2-MgF_2 is of theoretical as well as practical interest. The study was undertaken from the following points of view: Fusibility. Magnesium and calcium fluorides, introduced in quantities of up to 15% into the above systems, depress the crystallization points in melts, magnesium fluoride to a greater extent than calcium fluoride. The temperature of the beginning of NaF crystallization was determined as 990°. Thirty-one

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

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melts of (I) and 32 melts of (II) were studied; results are shown in Fig. 1. The crystallization temperature of systems where n was 2.9 was 5°C higher than that of systems with n = 2.7. The authors refer to n as the cryolite number (c.n.). When c.n. is 2.5 and alumina is absent, the crystallization point is 5°C (with alumina, 10°C) lower than that with c.n. 2.7. Density. At c.n. 2.7 and 2.9, addition of fluorides increases the density of melts. At c.n. 2.5, addition of magnesium fluoride (up to 10%) lowers the density of the melt but when 15% mgF_2 and 5-15% CaF_2 are added the density rises. In all these cases MgF_2 increases the density of the melt to a lesser extent than CaF_2. Tests were made by hydrostatic weighing, using a platinum float of 2.27 cm^3. 19 tests were made with (I) and 13 tests with (II), both with c.n. 2.7. The results are shown in Fig. 2.

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

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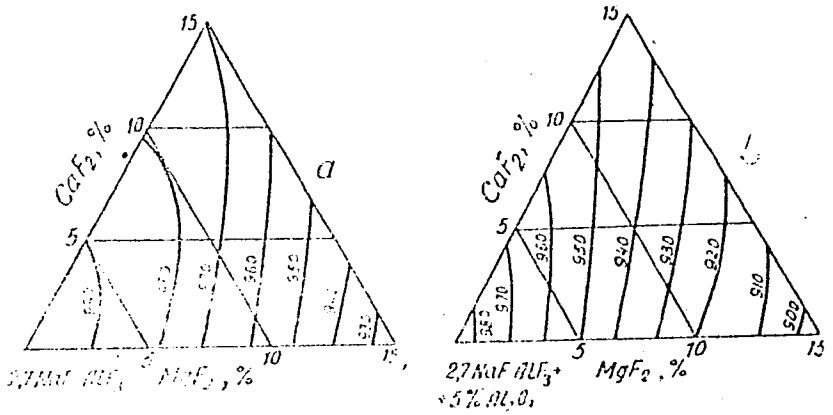

Fig. 1. Meltability diagrams for pseudoternary systems (I) and (II), n = 2.7.

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

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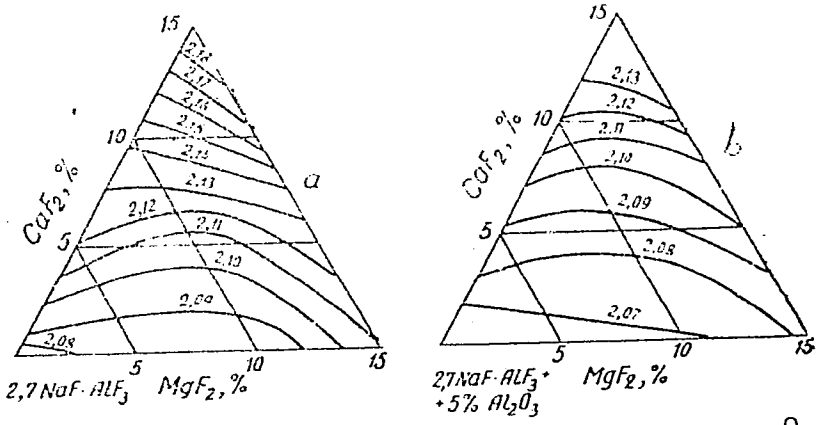

Fig. 2. Isotherms of melt densities at 1,000°C for pseudoternary systems (I) and (II), n = 2.7.

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

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When c.n. is 2.9 or 2.5, the density of (I) at 1,000°C is 2.087 and 2.063 g/cm^3, respectively. The corresponding figures for (II) are 2.068 and 2.044 g/cm^3. The lesser effect of MgF_2 as compared to CaF_2 is due to the strong polarizing action of the Mg^{2+} cation which promotes the formation of voluminous complex ions in the melt, loosening the structure of the latter. Electrical Conductivity. Ca and Mg fluorides introduced into the melts of pseudoternary systems in a max. quantity of up to 15% lower electrical conductivity, MgF_2 more so than CaF_2. Tests were made with a balanced bridge and ac. The specific conductivity of cryolite was found to be 2.66 ohm^{-1}cm^{-1} at 1,000°C. Test results are shown in Fig. 3. When c.n. is 2.5 or 2.9 , the conductivity maintains its character with the absolute values being lower in the former, and higher in the latter, case. Consequently,

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in Them of Magnesium and Calcium Fluorides

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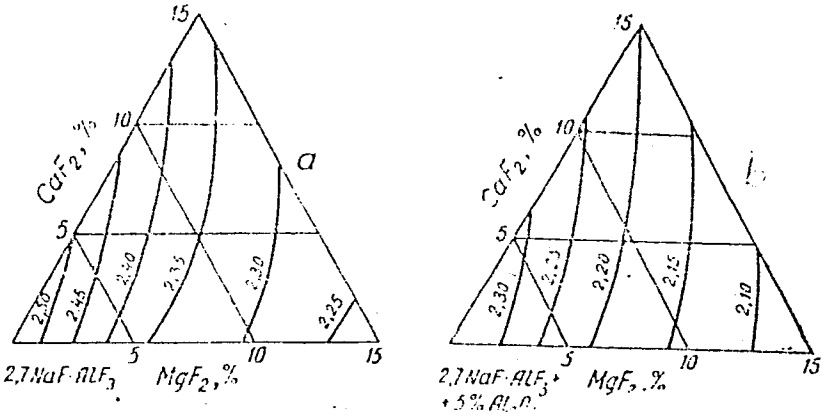

Fig. 3. Isotherms of specific electrical conductivity at 1,000°C for pseudoternary systems: (a) (I) (b) (II), n = 2.7.

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

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for (I) at c.n. 2.5 it is 2.37 $ohm^{-1}cm^{01}$, and at c.n. 2.9. 2.64 $ohm^{-1}cm^{-1}$. For (II) the corresponding figures are 2.29 and 2.43 $ohm^{-1}cm^{-1}$. An addition of 10% CaF_2 changes the latter to 2.12 add 2.32, while an addition of 10% MgF_2 brings them to 2.02 and 2.19 $ohm^{-1}cm^{-1}$. Wetting Angles on Coal. These were measured optically in an argon atmosphere at 1.010°C. They increase when up to 15% Mg and Ca fluorides are added, the action of the former being stronger. Test results are shown in Fig. 4. With increased exposure the wetting angles decrease at a rate which depends on c.n. (the rate is higher at high c.n.) A greater activity of the Mg^{2+} cation as compared to Ca^{2+} cation is due to a smaller ionic radius of the latter and a greater density of its charge. In their conclusions the authors recapitulate the above findings, stating that the action of MgF_2 on meltability,

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in Them of Magnesium and Calcium Fluorides

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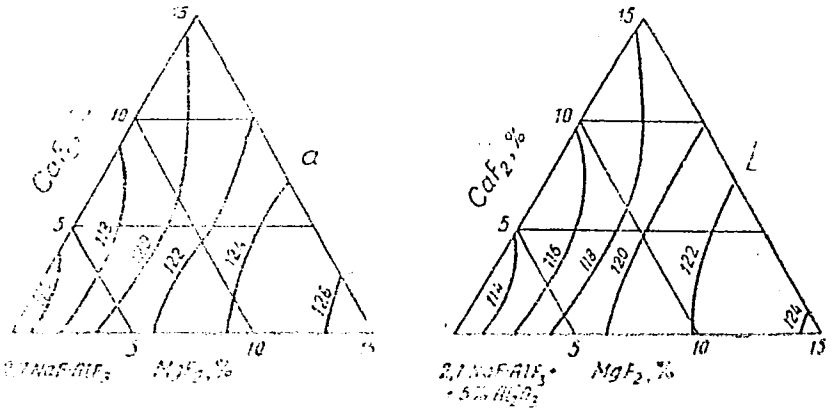

Fig. 4. Isotherms of contact wetting angles at 1.010°C on coal for pseudoternary systems: (a) (I) (b) (II), n = 2.7.

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Physico-Chemical Properties of Cryolite-Alumina Melts at a Simultaneous Presence in them of Magnesium and Calcium Fluorides

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SOV/149-60-1-15/27

density, and wetting of cryolite-alumina melts is more favorable than that of CaF_2, whereas the opposite is true with regard to electrical conductivity. There are 4 figures; 1 table; and 4 Soviet references.

ASSOCIATION: Krasnoyarsk Institute of Nonferrous Metals. Chair of Metallurgy of Light Metals (Krasnoyarskiy institut tsvetnykh metallov. Kafedra metallurgiyi legkikh metallov)

SUBMITTED: May 8, 1959

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, G.K.; BELYAYEV, A.I.

Aluminum losses and current efficiency in cryolite-alumina melts containing calcium fluorides and magnesium. Izv.vys.ucheb. zav.; tsvet.met. 3 no.2:96-101 '60. (MIRA 15:4)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallurgii legkikh metallov.

(Aluminum--Electrometallurgy)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.; BELYAYEV, A.I.

Interaction of magnesium and calcium fluorides in cryolite melts during "hot" titration. Izv. vys. ucheb. zav.; tsvet. met. 3 no.4: 58-64 '60. (MIRA 13:9)

1. Krasnoyarskiy institut tsvetnykh metallov. Kafedra metallurgii legkikh metallov.
(Cryolite) (Titration) (Fluorides)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.; BELYAYEV, A.I.

Free energy and the mechanism of the $NaMgF_3$ complex compound formation. Izv. vys. ucheb. zav.; tsvet. met. 3 no.5:72-78 '60. (MIRA 13:11)

1. Krasnoyarskiy institut tsvetnykh metallov. Kafedra metallurgii legkikh metallov.
(Sodium magnesium fluoride—Thermal properties)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

31237
S/149/61/000/006/002/003
A006/A101

S.4770

AUTHOR: Sokolov, O. K.

TITLE: Qualitative evaluation and correlation of electric conductivity and viscosity of molten salts

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no. 6, 1961, 79 - 84

TEXT: It is supposed that the electric conductivity of molten salts is mainly determined 1) by the ability of the ion to loose mutual coordination, which depends on the distance between the anion and the cation and their valence and 2) by the mobility of ions in the melt, determined by their radius and valence. The force of mutual attraction F, which determines the distance between the anion and the cation, is used in estimating electric conductivity of the melts; it is calculated by formula

$$F = \frac{z_1 \cdot z_2 \cdot e^2}{d^2},$$

where z_1 and z_2 are the valences of the cation and anion; e is the electron charge, and d is the distance between the anion and cation centers in the salt crystal. It

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Qualitative evaluation and correlation of...

is found that for melts containing monovalent cations and anions, electric conductivity is determined by the mobility of ions and increases with a smaller radius of the latter. If cation valences exceed one, the electric conductivity of the melt is determined by the interaction force between ions of opposite signs; it decreases with a stronger force of interaction. If there is one type of cation and different anions, electric conductivity of the melts increases with a smaller radius of anion, i. e. if the anion is replaced in any melt, electric conductivity is determined by the mobility of the latter. Viscosity of molten salts is also determined by the interaction forces of cations and anions, by taking into account the radius of the latter. The viscosity of molten salts (oxides) increases at a constant anion with stronger interaction forces between ions of opposite signs. If there is one type of cation and different anions in the melt, viscosity will increase with a higher valence of anions, and with a greater radius of the anion if the anion valences are equal. These concepts are confirmed by experimental data. The author considers that electric conductivity does not depend on the viscosity of the melt, contrary to the opinion that viscosity of the medium impedes the passage of current through the melt. He considers that both electric conductivity and viscosity are determined by the interaction force of ions of opposite signs.

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A006/A101

Qualitative evaluation and correlation of...

It is shown that for salts with monovalent cations electric conductivity increases with the viscosity of melts, and for salts with multivalent cations the dependence is just the opposite. There are 3 tables, 1 figure and 5 Soviet-bloc references.

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of Non-Ferrous Metals) Kafedra metallurgii legkikh metallov (Department of Metallurgy of Light Metals)

SUBMITTED: March 17, 1961

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

Formation of compounds in binary sulfide systems. Izv. AN SSR. Otd. tekh. nauk. Met. i topl. no.1:54-55 Ja-F '62. (MIRA 15:2)

(Sulfides--Metallurgy)
(Intermetallic compounds)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

Electric conductivity of fused salts with a monovalent cation.
Izv.AN SSSR. Otd.tekh.nauk. Met.i topl. no.4:56-58 Jl-Ag '62.
(MIRA 15:8)

(Fused salts--Electric properties)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.

Calculating the viscosity of fused salts (oxides). Izv.vys.ucheb. zav.; tsvet.met. 5 no.1:89-93 '62. (MIRA 15:2)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallurgii legkikh metallov.
(Fused salts) (Viscosimetry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.

Estimating the surface activity of fused salts (oxides). Izv.vys. ucheb.zav.; tsvet.met. 5 no.3:67-70 '62. (MIRA 15:11)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallurgii legkikh metallov.
(Surface chemistry) (Metallic oxides)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.

Method of calculating the amount of ion exchange reaction products without change of the mole number. Izv.vys ucheb.zav.; tsvet.met. 5 no.5:48-53 '62. (MIRA 15:10)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallurgii legkikh metallov.
(Ion exchange) (Molecular weights)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.; BELYAYEV, A.I.

Evaluation of the probability of the formation of compounds in binary systems consisting of salts and oxides. Zhur.neorg.khim. 7 no.6:1320-1327 Je '62. (MIRA 15:6)

1. Krasnoyarskiy institut tsvetnykh metallov imeni M.I.Kalinina, kafedra metallurgii legkikh metallov.
(Systems (Chemistry)) (Complex compounds)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.; BELYAYEV, A.I.

Applying crystal chemistry concepts to the interpretation of exchange decomposition reactions in melts. Zhur.neorg.khim. 7 no.6:1328-1335 Je '62. (MIRA 15:6)

1. Krasnoyarskiy institut tsvetnykh metallov imeni M.I.Kalinina, kafedra metallurgii legkikh metallov.
(Fused salts)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

Equation of calculating the products of ion exchange reactions occurring in melts with a change in the number of moles. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.2:73-78 Mr-Ap '63. (MIRA 16:10)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

The surface tension of melts. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.4:59-64 Jl-Ag '63. (MIRA 16:10)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

Effect of temperature on the electric conductivity of fused salts with a cation valence higher than 1. Izv. AN SSSR. Met. i gor. delo no.5:89-91 S-O '63. (MIRA 16:11)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.

Calculating the viscosity of fused salts (oxides) at various temperatures. Trudy Inst. met. no.12:85-89 '63. (MIRA 16:6)

(Fused salts) (Viscosimetry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K.

Calculating the surface tension of molten halogenides on the boundary of an inert phase at its melting point. Izv. vys. ucheb. zav.; tsvet. met. 6 no.4:52-57 '63. (MIRA 16:8)

1. Institut metallurgii AN SSSR. Rekomendovana kafedroy chistykh metallov i poluprovodnikovykh materialov Moskovskogo instituta stali i splavov.
(Halogen compounds) (Surface tension)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, G.K. (Moskva)

Cryoscopy of melts. Izv. AN [illegible] Met. 1 gor. dela no.[illegible]-106
My-Je'64 (MIRA [illegible])

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

Temperatures of the fusion and boiling of salts. Izv. AN SSSR Met. i gor. delo no.2:58-62 Mr-Ap'64 (MIRA 17:8)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Mo...

Structure of ...t and slag melts. Izv. AN SSSR. Met. i gor. delo no.5: 84-91 S-O '64. (MIRA 18:1)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.K. (Moskva)

Calculating the surface tension of certain sulfides and oxides with a melting temperature bordering on the inert phase. Izv. AN SSSR. Met. no.1:97-103 Ja-F '65. (MIRA 18:5)

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[illegible], [illegible].V.; [illegible], [illegible].M.; [illegible], [illegible].I.

Synthesis of difluoroalkanes. Zhur. Zeorg. Khim. [illegible] no.8:[illegible]-[illegible] Ag '6[illegible]. (MIRA 17:11)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.M., student

Attachments for machining friction disks. Mekh. sil'. hosp. 12 no.9:14-15 S '61. (MIRA 14:11)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut.
(Lathes--Attachments)

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L 12872-63 EPR/EWP(j)/EPF(c)/EWT(m)/BDS Ps-4/Pc-4/Pr-4 RM/WW/JW

ACCESSION NR: AP3002942 S/0076/63/037/006/1399/1401

AUTHOR: Pankratov, A. V.; Zercheninov, A. N.; Talakin, O. G.; Sokolov, O. M.; Knyazeva, N. A.

TITLE: Standard enthalpy of formation of the active isomer of difluorodiazine

SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 6, 1963, 1399-1401

TOPIC TAGS: standard enthalpy, active isomer, difluorodiazine, IR measurement

ABSTRACT: The standard enthalpy for the gaseous active isomer of difluorodiazine was calculated. It was 25.3 + or - 2.0 kcal/mol. It was 20.5 + or - 2.0 kcal/mol for the liquid at -105.7°. Data was obtained by IR measurement of the heat of reaction of the active isomer with an acid solution of KI. Orig. art. has: 2 tables, 1 figure, and 3 equations.

ASSOCIATION: none

SUBMITTED: 22Aug62 DATE ACQ: 16Jul63 ENCL: 00

SUB CODE: CH NO REF SOV: 002 OTHER: 005

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L 08402-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JW/JG

ACC NR: AP6031749 SOURCE CODE: UR/0078/66/011/007/1497/1505

AUTHOR: Pankratov, A. V.; Sokolov, O. M.

ORG: none

29
B

TITLE: Reaction of fluorine with sodium azide

SOURCE: Zhurnal neorganicheskoy khimii, v.11, no. 7, 1966, 1497-1505

TOPIC TAGS: fluorine, azide, sodium compound, halogen nitrogen compound

ABSTRACT: The reaction of fluorine with sodium azide produced cis and trans isomers of difluorodiazine, nitrogen trifluoride, nitrogen, and sodium fluoride. The yield of both difluorodiazine isomers and nitrogen trifluoride was studied as a function of the temperature in the reaction vessel, fluorine consumption, dilution of sodium azide with calcium fluoride, and dilution of fluorine with nitrogen. The optimum conditions for obtaining the best yields of difluorodiazines were determined. It was found that the following three consecutive-parallel reactions take place during the fluorination process:

$$NaN_3 + F_2 = NaF + {}^1/_2N_2F_2 + N_2 \quad (1)$$

$$NaN_3 + 2F_2 = NaF + NF_3 + N_2 \quad (2)$$

$$2NaN_3 + F_2 = 2NaF + 3N_2 \quad (3)$$

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L 08402-67

ACC NR: AP6031749

A mechanism is proposed for these reactions which satisfactorily accounts for the experimental data. Orig. art. has: 7 figures, 3 tables and 12 formulas.

SUB CODE: 07/ SUBM DATE: 25Jul64/ ORIG REF: 003/ OTH REF: 004

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACCESSION NR: AT4039461 S/2526/64/000/026/0129/0132

AUTHOR: Lyubchenko, G. I.; Sokolov, O. O. (Sokolov, A. A.)

TITLE: Increasing the accuracy in the automatic recording of temperatures

SOURCE: AN UkrRSR. Insty*tut teploenergety*ky*. Zbirny*k prats', no. 26, 1964. Teploobmin ta gidrody*namika (Heat exchange and hydrodynamics), 129-132

TOPIC TAGS: temperature recording, thermometer, automatic thermometer, heat exchange

ABSTRACT: The authors describe a differential arrangement (see Figures 1 & 2 in the Enclosure) for increasing the accuracy in the measurement of temperatures which vary within narrow limits. In this arrangement, the sensor is connected to test circuit I, while circuit II is a resistance circuit. The voltage difference $\Delta U = U_1 - U_2$, taken from the test and resistance circuits, respectively, is recorded by an EPP-09 automatic potentiometer with an accuracy of $\pm$ 0.5%. The voltage U_2 is measured by an R-375 potentiometer with an accuracy of $\pm$ 0.04%. By virtue of the fact that U_2 is considerably greater than ΔU, the final accuracy is substantially increased, being on the order of $\pm$ 0.05 - 0.1%. For the purpose of illustrating the operational principle of the arrangement, a digital example

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ACCESSION NR: AT4039461

and error analysis is given, involving the direct recording of temperature with an EMF-209 electronic bridge. The authors note that this device can be used in the experimental investigation of heat exchange processes. Orig. art. has: 2 figures and several formulas.

ASSOCIATION: Insty*tut teploenergety*ky* AN UkrRSR (Institute of Thermal Energetics, AN UkrRSR)

SUBMITTED: 28May62 DATE ACQ: 12Jun64 ENCL: 02

SUB CODE: EE, IE NO REF SOV: 002 OTHER: 000

Card 2/4

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACCESSION NR: AT4039461

ENCLOSURE: 01

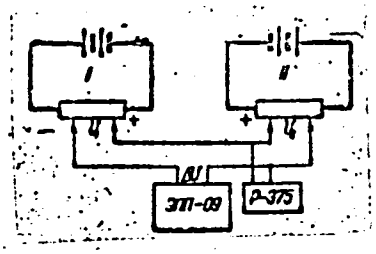

Fig. 1. Basic differential arrangement.

Card 3/4

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ACCESSION NR: AT4039461 ENCLOSURE: 02

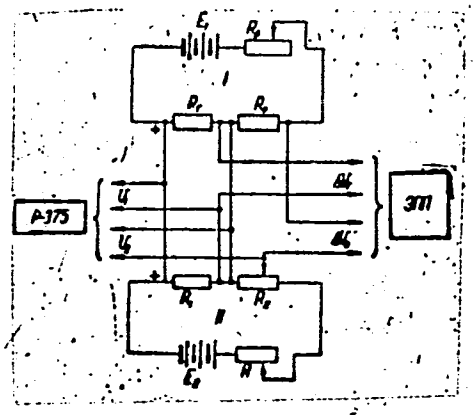

Fig. 2. Differential arrangement for the automatic recording of small temperature changes.

Card 4/4

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.T.

Thermal frequency compensation of quartz in crystal controlled transistor self-oscillators. Izv. vys. ucheb. zav.; radiotekh. 7 no. 3:332-341 My-Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.N.; ZUBREV, O.I.

Breaking away of stoppers. Metallurg. 9 no.10:25 O '64
(MIRA 18:1)

1. Metallurgicheskiy zavod "Serp i molot".

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

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[illegible] edges of the sinker box
[illegible] no.1:32-33 Ja-Mr '65.
(MIRA 18:4)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

factory.
(MIRA 18:4)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

28228

S/194/61/000/005/072/078
D201/D303

9,2560 (1139,1159,1161)

AUTHORS: Gavra, T.D. and Sokolov, O.T.

TITLE: The choice of operation of a transistor oscillator

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1961, 6, abstract 5 K31 (Nauchno tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 3, 94-99)

TEXT: The problem is considered of choosing the operation of transistor oscillations and of their application at frequencies below the cut-off frequencies (f_α and f_β). The results of experimental studies are given, carried out with crystal oscillators of various types, in common emitter and common base connections. The de-stabilizing factors were found to be: Changes in the d.c. emitter current, changes with respect to earth of the d.c. potential of the collector and circuit capacitances. The experimental data are given in the form of graphs. The supposition has been proved that certain res-

Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

28228
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D201/D303

The choice of operation...

ults may be applied to the non-crystal oscillators, multipliers and to other types of transistor devices. 2 references. [Abstracter's note: Complete translation]

Card 2/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

S/194/61/000/009/052/053
D271/D302

9,2583

AUTHOR: Gavra, T.D. and Sokolov, O.T.

TITLE: High stability junction transistor oscillator

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 5-6, abstract 9 K32 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 9, 36-42)

B

TEXT: Operation of a quartz crystal transistor oscillator is studied, with the crystal excited in fundamental frequency and in the third harmonic. An equivalent circuit is derived of the oscillator with the crystal in the feedback path. The matrix method is used in the theoretical analysis. An expression is given for detuning the piezo-resonator; an ideal feedback transformer is here assumed. Great attention is paid to the influence of de-stabilizing factors such as: a) operational instability and b) temperature instability. Theoretical derivation of a number of coefficients is

Card 1/2

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S/194/61/000/009/052/053
D271/D302

High stability junction...

associated with great difficulties because of the complex dependence of transistor parameters on the operational conditions and temperature. These problems (as applied to a series of transistors) are examined experimentally (at the frequency of 1000 kc/s). Experimentally determined dependence of frequency on collector voltage, emitter current, temperature, etc. is shown. 24-hour and short term frequency stability are considered. With optimal choice of circuit components, the scatter of transistor parameters has little effect on the frequency stability; frequency change when one transistor was substituted for another of the same series did not exceed 1.5 - 2 c/s; when transistors of different series were substituted, frequency change did not exceed 3 - 4 c/s. Stability is enhanced when quartz crystal is excited on harmonics. 4 references. [Abstracter's note: Complete translation]

Card 2/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACCESSION NR: AP4042849 S/0142/64/007/003/0332/0341

AUTHOR: Sokolov, O. T.

TITLE: Compensating the temperature coefficient of the frequency of quartz in transistorized oscillator circuits

SOURCE: IVUZ. Radiotekhnika, v. 7, no. 3, 1964, 332-341

TOPIC TAGS: oscillator, temperature coefficient of frequency, transistorized oscillator, quartz crystal oscillator

ABSTRACT: The temperature compensation of a quartz-crystal resonator by a p-n-junction capacitance or by an XR-circuit is theoretically and experimentally investigated. Formulas for a "perfect compensation" are developed; four circuits intended for producing compensating voltage are analyzed. An experimental verification of the formulas on a p-n-capacitance compensated oscillator (see Enclosure 1) showed that the instability was 1/20th that of a noncompensated

Card 1/3

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACCESSION NR: AP4042849

oscillator. Compensation by an LR-circuit was somewhat inferior: max frequency drift was $(4-6) \times 10^{-6}$. The reasons for the discrepancy between theoretical and experimental results are explained. Orig. art. has: 8 figures and 40 formulas.

ASSOCIATION: none

SUBMITTED: 07Jan63 ENCL: 01

SUB CODE: EC NO REF SOV: 005 OTHER: 002

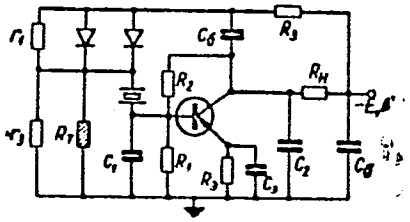
Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACCESSION NR: AP4042849

ENCLOSURE: 01



An oscillator temperature-compensated by a p-n-junction capacitance

Card 3/3

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

PEYCHEV, G.P.; KORMILITSYN, N.S.; SMOLYARENKO, D.A.; YEFANOV, N.I.; SOKOLOV, O.N.

Open-hearth furnace temperature at the time of charging [with summary in English]. Stal' 18 no.11:993 N '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii (for Peychev, Kormilitsyn).
2. Staleplavil'naya sektsiya Nauchno-tekhnicheskogo obshchestva chernoy metallurgii (for Smolyarenko, Yefanov, Sokolov).
(Open-hearth furnaces)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

S/130/62/000/001/002/004
A006/A101

AUTHORS: Sokolov, O.N., Tunkov, V.P., Fomin, I.I.

TITLE: Melting of charge iron in a basic open-hearth furnace

PERIODICAL: Metallurg, no. 1, 1962, 21 - 23

TEXT: A technology was developed for the production of charge iron with a carbon content less than 0.015% directly in an open-hearth furnace; the method consisted in carbon oxidation by the combined effect of iron ore and compressed air or oxygen blast to the pool. Experimental heats were made with oxygen and compressed air blast. The charge consisted of cast iron and rejects of low-alloy electric steel; aluminum was added into the ladle. When blowing oxygen through the pool the process of carbon oxidation from 0.64 to 0.014% lasted 1.30 minutes; blowing time was 13 minutes. When using compressed air, carbon oxidation time was 1.47 minutes and blowing time was 12 minutes. The composition of the finished metals was for case 1 (in %): 0.014 C, 0.018 Mn, traces of Si; 0.015 S; 0.007 P; 0.14 Ni, traces of Cr and 0.15 Cu; and for case 2: 0.014 C; 0.019 Mn, traces of Si; 0.010 S; 0.007 P; 0.15 Ni; traces of Cr and 0.18 Cu.

Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

VOLKOVA, Ye.A.; DUBROV, Ye.F.; SOKOLOV, O.N.; Prinimali uchastiye: PEYBO, I.V.; BULATOVA, Zh.M.; VIRULIN, B.K., glavnyy red.; CHASHNIK, V.M., otv.red.; REYKHERT, L.A., vedushchiy red.; DODONOVA, L.P., red.; KONDYURINA, Ye.N., red.; FEDOROV, S.S., tekhn.red.

[Problems in acoustical logging] Voprosy akusticheskogo karotazha. Leningrad, Gostoptekhizdat, 1962. 151 p. (Geofizicheskoe priborostroenie, no. 13). (MIRA 16:8)

(Prospecting—Geophysical methods)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SERGEYEV, L. A.; BOYAROYTS, A. A.; CHURLIN, V. V.; SOKOLOV, O. N.

Acoustical pulse logging of a cased well. Geol. nefti i gaza 7 no.1:56-60 Ja '63. (MIRA 16:1)

(Oil well logging, Acoustical)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

DUBROV, Ye.F.; SOKOLOV, O.N.

Method of geoacoustic sounding. Sov. geol. 7 no.3:109-113 Mr '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

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ACCESSION NR: AR4008227 S/0169/63/000/011/V011/V011

SOURCE: RZh. Geofizika, Abs. 11V77

AUTHOR: Abramov, Ye. P.; Sokolov, O. N.

TITLE: Experience in the use of sonar for the geologic mapping of ocean bottoms

CITED SOURCE: Sb. Geofiz. priborostr. Vy*p. 15. L., Gostoptekhizdat, 1963, 116-128

TOPIC TAGS: hydrography, Black Sea bottom deposit, sonar mapping, sea bottom sonar mapping, Azov Sea bottom deposit, sonar geologic mapping, ocean bottom sonar mapping, GEL-2 sounding device, sea bottom geologic structure, sea bottom stratigraphy

TRANSLATION: The Black and Azov Sea regions, promising from the standpoint of tideland oil and gas deposits, have recently been surveyed with a powerful modernized depth sounder to determine bottom deposit thicknesses and composition. A working model of the sounder used two deep-water sounding devices of the GEL-2 type. The equipment was placed at a depth of 0.8 m on a 200-ton diesel schooner

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ACCESSION NR: AR4008227

(maximum load line depth -- 2.85 m, speed -- 9.5 knots). The radiation angle in the water was 11°. The experiments showed that in areas of the bottom with exposed Tertiary clay-sand deposits, the geological cross-section may be determined to a depth of 20-30 m by this method. The sounding sections show good correlation with the geological ones. The strong shielding effect of modern deposits even of small thickness (several tens of centimeters in the case of sand) is noted. The method is considered promising when used in conjunction with aerophotogeological surveying techniques. Yu. Alekseyev.

DATE ACQ: 09Dec63 SUB CODE: AS ENCL: 00

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

S/130/61/000/003/002/008
A006/A001

AUTHORS: Kudrin, V.A., Vinnichenko, Ye.V., Sviderskiy, G.V., Tunkov, V.P., Sokolov, O.M.

TITLE: Processing of Liquid Steel With Solid Synthetic Mixtures

PERIODICAL: Metallurg, 1961, No. 3, pp. 16 - 17

TEXT: A series of experimental heats were carried out on furnaces of an open-hearth shop at the "Serp i molot" plant. The investigation was made for the purpose of revealing the possibility and expediency of treating steel with solid synthetic mixtures. The following composition of a desulfurizing mixture was selected (in %): Freshly burnt lime 70 - 75; fluorspar 25 - 28; crushed aluminum 0 - 4: The consumption was 8 - 11 kg/ton of steel. The components of the mixture were crushed manually, and fluorspar was preheated in a mold. The mixture was supplied to the metal jet when leaving the furnace, partly from a bin with 45% ferrosilicon, partly by hand. Data given in Table 1 show that the sulfur content was reduced by 28% on the average, after treating the metal with the synthetic mixture, in relation to the sulfur content prior to that. Desulfurization process is somewhat intensified at a higher carbon content. An analysis of results ob-

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

S/130/61/000/003/002/008
A006/A001

Processing of Liquid Steel With Solid Synthetic Mixtures

tained from the experiments has shown that the content of non-metallic impurities in the metal that was treated with the mixture or not treated, is equal. CaO was not revealed in the impurities. An analysis of the experimental heat metal, as to the hydrogen content depending on the moisture of the misture, shows that a moisture up to 1.5% H_2O, does practically not affect the hydrogen content in the metal. Results of mechanical tests are given in Table 2. It was found that the efficiency of open hearth furnaces can be raised by 10-15% when treating high-quality instrument steel with synthetic mixtures. This is due to a reduced bubbling time required to assure metal desulfurization in heats of conventional technology. The cost price of steel is correspondingly reduced by 2 - 2.5%. The degree of desulfurization depends only slightly on the sulfur content in the ladle prior to treatment. It decreases in the case when the heat is teemed at the lowest metal temperature limit for the given jet, to prevent metal splashing in case that components of higher moisture should fall into the ladle. Supply of the mixture should be started after teeming into the ladle about one fourth of the heat; it should be completed prior to the formation of slag. The mixture can not be supplied to the ladle bottom prior to teeming the heat, because of safety conditions.

ASSN: Moscow Steel Inst.; Zavod "Serp i Molot"

Card 2/2

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[illegible], [illegible]

[illegible], [illegible] --"[illegible] Forest Chart and Procedure for its Compilation." * (Dissertations for Degrees in Science and Engineering, Defended at [illegible] Higher Educational Institutions, Min [illegible] Higher Education [illegible], Novosibirsk Inst of Engineers of Geodesy, Aerial Photography, and Cartography, Novosibirsk, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Doctor of Technical Sciences

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.V.

Hand-drawn maps of Siberian forests. Izv.Novosib.otd.Geog.ob-va SSSR no.1:79-85 '57. (MIRA 12:4)
(Siberia--Forests and forestry--Maps)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

YEGOROV, Vladimir Vasil'yevich; SOKOLOV, Oleg Viktorovich; TARNOVSKIY, Lev Fedorovich; ROGOV, A.B., red.; SHAMAROVA, T.A., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Compiling and editing maps]Sostavlenie i redaktirovanie kart. Moskva, Geodezizdat, 1962. 238 p. (MIRA 15:10)
(Maps, Topographic) (Cartography)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

S/058/63/000/001/020/120
A062/A101

AUTHOR: Sokolov, O. V.

TITLE: Capture of electrons into acceleration in a 15 MeV betatron operating with two injectors

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 41, abstract 1A388 (In collection: "Elektron. uskoriteli". Tomsk, Tomskiy un-t, 1961, 69 - 74)

TEXT: The process of electron capture into acceleration conditions in a 15 MeV dual injector betatron was studied. The dependences of the γ-emission intensity on the injection current were plotted for the operation of each injector separately and also for the simultaneous operation of the two injectors together (in the latter case the current of one of the injectors had a constant value). The length of the leading front of injection pulses was 0.5 μsec; that of the back front - 2 μsec, and of the flat portion - 3 μsec; the pulse amplitude was 12 kV. An analysis of the curves obtained shows that the capture of electrons into acceleration depends on the azimuthal distribution of the space charge formed

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.V.

Effect of an inhomogeneity in a magnetic field on the capture of electrons for acceleration in a betatron. Izv.vys.ucheb.zav.; fiz. no.3:98-102 '63. (MIRA 16:12)

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, O.V.; BLISKUNOVA, N.A., dots., red.

[Generation and measurement of a vacuum] Poluchenie i izmerenie vakuuma; uchebnoe posobie. Leningrad, Leningradskii elektrotekhn. in-t, Pt.1. 1963. 159 p. (MIRA 17:7)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

L 64798-65 EWT(m) DIAAP

ACCESSION NR: AR5004537 S/0275/64/000/011/A053/A053

621.384.6

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 11A336 22 B

AUTHOR: Gorbunov, V. I. 44,55; Nedavniy, O. I. 44,55; Sokolov, O. V. 44,55

TITLE: Measuring the betatron energy of bremsstrahlung 19, 44, 55

CITED SOURCE: Sb. elektron. uskoriteli. M., Vyssh. shkola, 1964, 302-305

TOPIC TAGS: betatron, bremsstrahlung measurement 9m

TRANSLATION: An instrument has been developed and built for measuring the radiation energy; the phase-shift compensation in this instrument is effected by means of a delay. A principal circuit is presented, and the operation of its elements is considered. The instrument calibration based on the absolute method of measurement of maximum quantum energy in a bremsstrahlung spectrum was made according to the threshold reactions (γ, n). Copper (with a threshold reaction at 10.85 Mev) and carbon (18.6. Mev) were selected as specimens.

SUB CODEL NP, EC

aum

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

L 4418-66 EWT(1)

ACC NR: AP5024171 SOURCE CODE: UR/0115/65/000/008/0056/0057

AUTHOR: Pelykh, N. A.; Sokolov, O. V.

ORG: none

TITLE: Thermistor bridge of the M4-1 (MTO-1) type for operation with wire bolometers

SOURCE: Izmeritel'naya tekhnika, no. 8, 1965, 56-57

TOPIC TAGS: thermistor, bolometer

ABSTRACT: The direct-reading thermistor bridge of the M4-1 (MTO-1) type, which has a lower measurement limit of 15 μw, was modified so that it can be used with wire bolometers. A circuit of the modified version is given, and the modifications are described. The gain of the power control system is approximately 10^5, as compared to 200 for the old system. To prevent self-oscillations arising because of the high gain, the galvanometers are overdamped. Power supplied from external d-c sources and a modified photomultiplier circuit improve the stability and decrease the total error of the thermistor bridge. The instrument is 14 kg lighter as a result of the replacement of the power supply unit. Orig. art. has: 1 figure. [08]

SUB CODE: EC/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 000/ ATD PRESS: 4125

Card 1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

32-24-6-36/44

AUTHORS: Kuznetsov, Ye. S., Sokolov, O. V.

TITLE: The Use of Casts in Measuring the Wear of Parts (Ispol'zovaniye slepkov pri izmerenii iznosa detaley)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 774 - 775 (USSR)

ABSTRACT: The method of grooves (impressions) is much used in these measurements by applying them onto the surface to be investigated by means of a square diamond pyramid. A method for the determination of the dimensions of grooves by special casts, which can later be measured under the microscope, was developed. The casts of transparent celluloid proved to be of the greatest advantage; in this connection a maximum measuring deviation of 2 % is given. It is recommended to stick to the square shape of the celluloid film; its thickness should be the 1o - 15-fold of the depth of the groove, and its lateral length about 2o times that of the groove diagonal. After pretreatment the humid film is pressed onto the groove for 15 - 3o seconds, drying being accelerated by

Card 1/2

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32-24-6-36/44

The Use of Casts in Measuring the Wear of Parts

a heating lamp. The present method is especially effective in tests during operation as stopping of machines, of the mechanism , or of the plant can be reduced to a minimum, and because no dismounting or direct measurements on parts has to be carried out.

1. Machines--Maintenance 2. Metals--Test methods 3. Celluloid --Applications

Card 2/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

KUZNETSOV, Yevgeniy Semenovich. Prinimali uchastiye: KUROPTEV, V.T.; LEYDERMAN, S.R.; NOSOV, L.I.; PLEKHANOV, I.P.; PLESHAKOVA, T.I.; SALOSHIN, N.P.; SOKOLOV, O.V.; SHIBIN, P.V.; YAKOVLEV, A.V.. MARTENS, S.L., red.; ZUYEVA, N.K., tekhn.red.

[Efficient conditions for the maintenance of motor vehicles and methods for its improvement] Ratsional'nye rezhimy tekhnicheskogo obsluzhivaniia i metodika ikh korrektirovaniia. Moskva, Avtotransizdat. Pt.1. [Every day and the first maintenance of motor vehicles] Ezhednevnoe i pervoe tekhnicheskoe obsluzhivanie. 1958. 35 p. (MIRA 13:5)

(Motor vehicles--Maintenance and repair)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

KUZNETSOV, Yevgeniy Semenovich. Prinimali uchastiye: RYTCHENKO, V.I.; ORLOV, V.P.; RUBETS, D.A.; ZAYATS, T.P.; KUROPTEV, V.T.; LEYDERMAN, S.R.; NOSOV, L.I.; SOKOLOV, O.V.; TULUKOV, G.A.; SHIBIN, P.V. LESNYAKOV, F.I., red.; DONSKAYA, G.D., tekhn.red.

[Efficient systems of maintenance and methods for their correction] Ratsional'nye rezhimy tekhnicheskogo obsluzhivaniia i metodika ikh korrektirovaniia. Moskva, Avtotransizdat. Pt.2. [Second stage of motor vehicle maintenance] Vtoroe tekhnicheskoe obsluzhivanie. 1960. 98 p. (MIRA 14:3)

(Motor vehicles--Maintenance and repair)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, Oleg Vladimirovich, inzh.; YABLOKOV, V.I., red.; BODANOVA, A.P., tekhn. red.

[Investigating the performance of motor-vehicle mechanisms under operating conditions] Issledovanie rezhimov raboty mekhanizmov avtomobilia v ekspluatatsionnykh usloviiakh. Moskva, Avtotransizdat, 1963. 39 p. (MIRA 16:12)
(Motor vehicles--Testing)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P., kand.med.nauk

Our gas mask is a half century old. Voen.-znan. 41 no.12:27 D '65. (MIRA 18:12)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.A.

Resistance. Ohm's law (Method for presentation in the 7th grade). Fiz.v shkole 7 no.4:35-42 '53. (MLRA 6:11)

1. Rostov-na-Donu, Pedagogicheskiy institut. (Ohm's law)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

USSR / Human and Animal Morphology (Normal and Pathological). Methods and Techniques of Investigation. S

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2868

Author : Sokolov, P. A.
Inst : Rostov-on-Don Medical Institute
Title : Contrast Media for Preparing Roentgen-Anatomic and Transilluminated Specimens

Orig Pub : Tr. Otchetn. nauchn. konferentsii, (Rostovsk.-n/D. med. in-t) za 1956 g. Rostov-na-Donu, 1957, 133-136

Abstract : Lead contrast media, representing a combination of media of Gaukh, Khazin and Shor, were proposed and tried out during a long period of time. Good results were noted in studies of blood vessels by the methods of radiography, transillumination and dissection.

Card 1/1

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P. A., Cand of Med Sci -- (diss) "On changes in the region of the navel ring of newborn babies in the forensic-medical respect." Moscow, 1957, 12 pp (Second Moscow Medical Institute im Stalin), 250 copies (KL, 29-57, 93)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, [illegible]

Materials for posthumous cerebral angiography. Technique and methodology. Report No.1. Sud.-med. ekspert. 8 no.1:16-18 Ja-Mr '65. (MIRA 18:5)

1. Kafedra sudebnoy meditsiny (zav. - dotsent P.A.Sokolov) Chitinskogo meditsinskogo instituta.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

BUTOMA, B.Ye.; SOKOLOV, P.A.; BALAYEV, D.N.; SERGEYEV, N.M.; SHUMSKIY, K.A.; TYAPKIN, M.Ya.; SMIRNOV, V.A.; PIROGOV, N.I.; FEDOROV, N.A.; GOLYASHKIN, G.S.; KUZ'MIN, A.P.; AKULINICHEV, V.P., brigadir; GORBENKO, Ye.M.; BYSTREVSKIY, L.M., inzh.; STEPANOV, P.S., brigadir; Us, I.S., brigadir-sudosborshchik, deputat Verkhovnogo Soveta SSSR; USTINOV, P.D., slesar'-sborshchik; FINOGENOVA, N.Ya., tokar'; LERNER, M.; ALEKSEYEV, R.Ye.; SIVUKHIN, K., starshiy master; OSTAF'YEV, A.I.; TROFIMOV, B.A., inzh.; KOVRYZHKIN, V.F., inzh.; MOISEYEV, A.A. , prof.; GOLUBEV, N.V.; MOGILEVICH, V.I.; ANDRYUTIN, V.I.; ANDRIYEVSKIY, M.I.; MATSKEVICH, V.D., dots.

Shipbuilders prepare for the 21st Extraordinary Congress of the CPSU. Sudostroenie 25 no.1:1-25 Ja '59. (MIRA 12:3)

1. Predsedatel' Gosudarstvennogo komiteta Soveta Ministrov SSSR po sudostroyeniyu, ministr SSSR (for Butoma). 2. Nachal'nik upravleniya sudostroitel'noy promyshlennosti Lensovnarkhoza (for Sokolov). 3. Direktor Baltiyskogo sudostroitel'nogo zavoda im. S.Ordzhonikidze (for Balayev). 4. Nachal'niki tsekhov Baltiyskogo sudostroitel'nogo zavoda im. S. Ordzhonikidze (for Sergeyev, Shumskiy). 5. Nachal'nik mekhanicheskogo tsekha Baltiyskogo sudostroitel'nogo zavoda im. S. Ordzhonikidze (for Tyapkin). (Continued on next card)

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BUTOMA, B.Ye.---(continued) Card 2.

6. Brigada kommunisticheskogo truda Baltiyskogo sudostroitel'nogo zavoda im. S. Ordzhonikidze (for Smirnov). 7. Glavnyy inzhener Admiralteyskogo sudostroitel'nogo zavoda, Leningrad (for Pirogov). 8. Glavnyy inzhener sudostroitel'nogo zavoda im. A.A. Zhdanova (for Fedorov). 9. Nachal'nik elektrodnogo tsekha Sudostroitel'nogo zavoda im. A.A. Zhdanova (for Golyashkin). 10. Nachal'nik tsekha kommunisticheskogo truda sudostroitel'nogo zavoda im. A.A. Zhdanova (for Kuz'min). 11. Malyarnyy tsekh sudostroitel'nogo zavoda im. A.A. Zhdanova (for Akulinichev). 12. Glavnyy inzhener Nikolayevskogo sudostroitel'nogo zavoda im. I.I. Nosenko (for Gorbenko) 13. Nikolayevskiy sudostroitel'nyy zavod im. I.I. Nosenko (for Bystrevskiy, Us, Ustinov, Finogenova). 14. Slesarno-sborochnaya brigada Nikolayevskogo sudostroitel'nogo zavoda im. I.I. Nosenko (for Stepanov). 15. Zamestitel'nachal'nika konstruktorskogo byuro sudostroitel'nogo zavoda "Krasnoye Sormovo" (for Lerner). 16. Glavnyy konstruktor konstruktorskogo byuro sudostoritel'nogo zavoda "Krasnoye Sormovo" (for Alekseyev). 17. Sudostroitel'nyy zavod "Krasnoye Sormovo" (for Sivukhin). 18. Direktor sudostroitel'nogo zavod "Leninskaya kuznitsa" (for Ostaf'yev). 19. Sekretar' partkoma TSentral'nogo nauchno-issledovatel'skogo instituta (for Trofimov). (Continued on next card)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

BUTOMA, B.Ye.--(continued) Card 3.
20. Predsedatel' Leningradskogo oblastnogo pravleniya Nauchno-tekhnicheskogo otdela sudostroitel'noy promyshlennosti (for Moiseyev). 21. Glavnyye inzhenery Konstruktorskogo byuro (for Golubev, Andryutin). 22. Glavnyy konstruktor Konstruktorskogo byuro (for Mogilevich). 23. Nachal'nik TSentral'nogo tekhniko-konstruktorskogo byuro (for Andriyevskiy). 24. Zamestitel' direktora Leningradskogo korablestroitel'nogo instituta po uchebnoy chasti (for Matskevich).
(Shipbuilding)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P. A.

"Built-up Geodetic Signals From Concrete Construction," by P. A. Sokolov and Ya. M. Pal'm, Tr. Novosibir. in-ta. inzh. geod., aerofotos'yemki i kartogr., No 7, 1956, pp 21-28 (from Referativnyy Zhurnal -- Astronomiya, Geodeziya, No 2, Feb 57, Abstract No 1642)

To save structural wood and rolled steel in industrial and forestless regions, the use of built-up geodetic signals with instrumental pyramids of concrete girders and with demountable wooden or metallic external pyramids is suggested. Examples are given for computing 3- or 4-faced pyramids, and for construction of a Duran to the 12-m signal, and drawings are included. (U)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

KOLOSOVA, A.A.; SOKOLOV, P.A.

In memory of Konstantin Aleksandrovich Lavrov, 1903-1962.
Arkh. anat., gist. i embr. 44 no.6:125-126 Je '63.
(MIRA 17:7)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACC NR: AP7002178 SOURCE CODE: UR/0146/66/009/006/0078/0082

AUTHOR: Sokolov, P.A.

ORG: Moscow Physico-engineering Institute (Moskovskiy inzhenerno-fizicheskiy institut)

TITLE: Logic circuits using branching magnetic circuits

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 6, 1966, 78-82

TOPIC TAGS: magnetic circuit, logic circuit, hysteresis loop

ABSTRACT: The capabilities are analyzed of multiaperture magnetic devices which contain many magnetic circuits on a single plate (see Fig. 1) made of a magnetic material with rectangular hysteresis loop. In these devices nonmagnetic elements are used only for data transmission and power supply. The circuits are based on the principle of flux transfer between many possible paths in two steps (restoring and working cycles). Flux control using the local saturation method is insensitive to magnetic parameter tolerances and it is uninfluenced by the magnitude of control currents. A typical magnetic circuit of this type is shown in Fig. 1. The path abc is common to all circuits; paths 1-1, 2-2, 3-3, and 4-4 are logic circuits selected by input signals applied to wires (not shown) which pass through individual small apertures. Selection of one circuit is

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

ACC NR: AP7002178

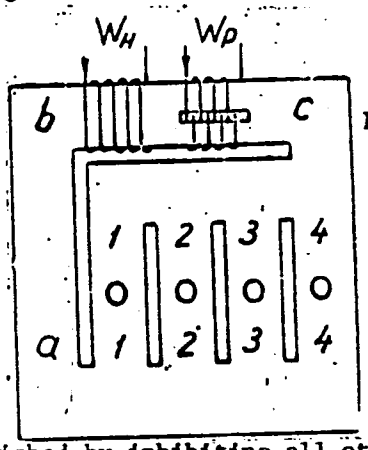

Fig. 1. Multiaperture magnetic circuit

accomplished by inhibiting all others. During the restoring cycle large demagnetizing currents are applied to all circuits and winding W_P. During the working cycle a single path is magnetized by applying inhibit currents to the other branches and to winding W_H. Output signals are available at windings in the logic branches of the circuit (not shown). Tests using a 6 x 6 x 2-mm sample 0.3 FPT material with a squareness ratio of 0.90 have shown that the quality of control is enhanced when large inhibit currents (1 amp/cm in the aperture circumference) are used. [BD] [WA-81]

SUB CODE: 09/ SUBM DATE: 12May66/ ORIG REF: 002/ OTH REF: 003/
ATD PRESS: 5114

Card 2/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P. B.

SOKOLOV, P. B.: "The work of Russian scholars to create and perfect methods of the aerodynamic calculation of aircraft". Moscow, 1955. Acad Sci USSR. Inst of the History of Natural Science and Engineering. (Dissertation for the Degree of Candidate of TECHNICAL Sciences)

SO: Knizhnaya Letopis' No. 51, 10 December 1955

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.B.

Development of the aerodynamic design of airplanes. Trudy Inst. ist. est. i tekh. 21:212-231 '59. (MIRA 13:3)
(Airplanes--Design and construction)
(Aerodynamics)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D. --

"Tannide-Containing Plants of the Kara-Kum Desert." Cand Biol Sci, Botanical Inst, Acad Sci USSR, Leningrad, 1953. (RZhBiol, No 3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

IL'IN, M.M.; SOKOLOV, P.D.; SHUKHOBODSKIY, B.A.

Conference at the V.L. Komarov Botanical Institute of the Academy of Sciences of the U.S.S.R. on plant resources. Bot.zhur. 40 no.2: 305-314 Mar-Apr '55. (MLRA 8:7)
(Botany, Economic)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.

Tannin-bearing plants of Kara Kum. Trudy Bot.inst.Ser.5 no.4:171-244 '56. (Kara Kum--Tannins) (MLRA 9:6)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing Plants. M-6

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58683

Author : Yegorov, B. A.; Pervukhin, F. S.; Sokolov, P. D.
Inst : Botanical Inst.-t, Acad. Sci., USSR
Title : Problems Pertaining to the Study of Tannin Bearing Plants

Orig Pub : Botan. zh., 1956, 41, No 9, 1407-1409

Abstract : The results of studies of conferences on plant resources of the USSR, conducted in 1954, and on cultivation of new useful plants, conducted in 1956 under the auspices of the Botanical institute, Acad. Sci., USSR are explained. It is indicated that the tannin-extracting industry must increase the planned production of tannides in the sixth five year period by 25% in comparison with 1954. Along with non-marketable

Card 1/3

Plants. Technical, Oleaceous, Sugar Bearing M-6

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58683

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

oak wood pulp, the industry utilizes presently the bark of spruce, willow, larch, roots of bistort, sea lavender, rhubarb (chukhra) and leaves of smoke tree in small quantities. It is necessary to strengthen the coordination of studies of tannin bearing plants between various scientific-research institutions and to improve their connection with production organizations. It is necessary to develop a speedy and accurate method of quantitative determination of tannins. Attention is drawn on increasing work with grassy tanning plants. The conference showed the necessity of introduction into commercial cultivation in Uzbekistan and in the Southern Kazakhstan of tanning bistort. It is recommended to investigate the

Card 2/3

USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing Plants. M-6

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58683

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.

Caucasian expedition of the Section of Plant Resources of the V.L.Komarov Botanical Institute of the Academy of Sciences of the U.S.S.R. Bot.zhur. 42 no.6:978-979 Je '57. (MIRA 10:7)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad.

(Caucasus--Botany, Economic)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

COUNTRY : USSR
CATEGORY : Cultivated Plants. Industrial. Oleiferous. Sugar. M
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 11037

AUTHOR : Sokolov, P. D.
INST. : Botanical Institute, AS USSR
TITLE : An Investigation of the Tannin-bearing Properties of Rhododendron aureum Georgi.

ORIG. PUB. : Botan. zh., 1958, 43, No. 3, 437-443

ABSTRACT : The golden rhododendron (Rhododendron aureum Georgi) is encountered in the mountain regions of Eastern Siberia, Pribaykal'ye, Zabaykal'ye and the Far East. The Department of Plant Resources of the Botanical Institute, AS USSR, has discovered 14.5% of tannins in the leaves of the golden rhodendron gathered in the Central Sayany. The extract obtained from the stored raw material approches with respect to the physico-chemical properties, the best tannin producer - quebracho. The golden rhododendron gathered on the ridge Khamar-Daban contains in

CARD: 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.

Studying the properties of Polygonum divaricatum L. as a tannin plant. Bot. zhur. 44 no.1:116-117 Ja '59. (MIRA 12:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Knotweed) (Tannins)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.

Tannin content of some plants of the Talysh. Bot.zhur. 44 no.9:1328-1333 S '59. (MIRA 13:2)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad.
(Talysh Mountains--Tannins)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

FEDOROV, Al.A., doktor biologicheskikh nauk; SOKOLOV, P.D., kand.biol.nauk

Three months in southern China. Vest.AN SSSR 30 no.8:98-101 Ag '60. (MIRA 13:8)

(China, Southern--Botany, Economic)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.

Tannin plants of the mountainous regions of Turkmenistan. Trudy Bot.inst.Ser. 5 no.7:28-77 '61. (MIRA 14:4)

(Turkmenistan--Botany) (Tanning materials)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.; SHUKHOBODSKIY, B.A.

Tannin content of certain plants of the Sakhalin Island. Trudy Bot.inst.Ser. 5 no.7:78-94 '61. (MIRA 14:4)
(Sakhalin--Botany) (Tanning materials)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

SOKOLOV, P.D.

Tannin plants of the central Sayans. Trudy Bot. inst. Ser. 5 no.9: 259-290 '61. (MIRA 15:1)
(Sayan Mountains--Botany, Economic) (Tannins)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6

[illegible], P.D.

The Sayan expedition of 1959 organized by the Botanical Institute of the Academy of Sciences of the U.S.S.R. Bot. zhur. 46 no.1:155-158 Ja '61. (MIRA 14:3)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad.
(Sayan Mountains--Botany, Economic)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020009-6"