"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

On the Reduction of Nickel Ferrite by Graphite SOV/20-123-1-22/56

3,517 - 3,520 Å. Later, the parameter of the lattice of the metallic phase increases, which enlightens the increasing iron content in the nickel. The dependence of the mentioned lattice parameter of the metallic phase upon the oxygen content in the solid phase is given in figure 2. The parameter is maintained on further reduction up to 50% of the reduction and then increases again. The maximum of 3,581 Å is reached at 70%. The reduction mechanism of nickel ferrite by graphite in vacuo is determined both by the ion diffusion in the surface layer and by the steric ion diffusion in the depth of the crystal lattice. This mechanism differs from the reduction by gases (f.i.by hydrogen at 400°), in which the steric diffusion is without importance and where the lattice transformation is mainly achieved by the superficial ion diffusion. There are 3 figures and 2 references, 1 of which is Soviet.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR (Institute of Metallurgy of the Ural Branch of the Academy of Sciences, USSR)

Card 3/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

5 (1)

AUTHORS: Zhuravleva, M. G., Bogoslovskiy, V. N., Chufarov, G. I., Corresponding Member AS USSR

SOV/20-126-3-46/69

TITLE: The Effect of Potassium and Sodium Carbonates on the Reduction of Nickel and Cobalt Ferrites by Graphite (Vliyaniye uglekislykh soley kaliya i natriya na vosstanovleniye ferritov nikelya i kobal'ta grafitom)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 3, pp 623-625 (USSR)

ABSTRACT: The authors used "achesonovskiy" [Abstracter's Note: Acheson's ?] graphite which was vacuum-annealed at 1100° as a reducing agent for the ferrites mentioned in the title. Its quantity was in every test 3 times the quantity necessary for reduction to the metal. The admixtures of the two carbonates amounted to 1 % of the ferrite weight. A vacuum in the order of magnitude of 10^{-3} mm mercury column was maintained in the reaction area. Figure 1 represents graphically the test results which show that the mentioned salts speed up the reduction referred to: K_2CO_3 by 100 fold for nickel ferrite, and by several dozens for cobalt ferrite. The efficiency of Na_2CO_3

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

is much lower (Figs 1a and 1b). The influence of the admixtures is not restricted to a simple acceleration - they also may change the character of the process (Ref 3). X-ray structure investigations of the solid phase have shown that, in the nickel reduction by graphite, metallic nickel is formed in the first stage, while the initial ferrite approaches the magnetite. In further reduction, the metallic phase is enriched by iron (Fig 2). The authors carried out an X-ray structure analysis of the solid products of a nickel-ferrite reduction by graphite with an addition of 1% K_2CO_3. It was found that in this case the reduction product is a solid solution Ni-Fe with a variable concentration. The phase with a lattice of the spinel type, i.e. ferrite, is present until the 71 % reduction is finished. At a 51 % reduction, a phase with a lattice of the NaCl type appears for the first time. It corresponds to the solid solutions $Fe_{1-x}Ni_xO$. Figure 2, however, shows that the lattice parameter is higher at the reduction with admixtures. This points to a higher iron content, and proves that the rate of spatial diffusion of the ions in

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The Effect of Potassium and Sodium Carbonates on the Reduction of Nickel and Cobalt Ferrites by Graphite SOV/20-126-3-46/69

the solid phase is inferior to the rate of oxygen extraction by the reducing substance. In the case of graphite, it is the gaseous carbon oxide. The present experimental material renders possible some suppositions on the possible mechanism of influence of the mentioned admixtures (Refs 3, 5, 6). Their introduction changes the reactivity of the oxides and ferrites, i.e. it changes the rate of the process. There are 2 figures and 7 Soviet references.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR (Institute of Metallurgy of the Ural Branch of the Academy of Sciences, USSR)

SUBMITTED: March 16, 1959

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4039618 S/0076/64/038/005/1135/1141

AUTHOR: Shchepetkin, A. A. (Sverdlovsk); Stafeyeva, N. M. (Sverdlovsk); Bogoslovskiy, V. N. (Sverdlovsk); Zhuravleva, M. G. (Sverdlovsk); Chufarov, G. I. (Sverdlovsk)

TITLE: Study of equilibrium conditions during the reduction of magnesium-manganese ferrites

SOURCE: Zhurnal fizicheskiy khimii, v. 38, no. 5, 1964, 1135-1141

TOPIC TAGS: magnesium-magnetite ferrite, ferrite dissociation, ferrite reduction, equilibrium oxygen pressure, ferrite crystalline structure, spinel phase, magnesioferrite, magnetite

ABSTRACT: The equilibrium oxygen pressure during the dissociation of magnesium-manganese ferrites (I) of the composition $Mg_cMn_{1-c}Fe_2O_4$ (c = 0.1 to 1.0) have been determined and some peculiarities of the crystalline structure of I of various compositions have been studied. This work was done because such data are helpful for the preparation of ferrites and the understanding of changes occurring in service. The equilibrium conditions in the reduction of I were determined in a closed vacuum apparatus with a circulating $H_2 + H_2O$ mixture. The equilibrium

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4039618

oxygen pressure was calculated from the formula $p_{O_2}^{1/2} = K_p K_{H_2O}$, where K_p is the H_2O/H_2 pressure ratio in an equilibrium gas mixture and K_{H_2O} is the equilibrium constant of the water vapor dissociation. X-ray analysis of I and of their reduction products was carried out by the Debye method. It was shown that the oxygen pressure remains almost constant (10^{-13} atm) with an increase of the magnesioferrite content in the solid solution from 0 to 50 mol. %; the pressure increased sharply (to 10^{-11} atm) with an increase of the magnesioferrite content from 50 to 100 mol. %. The oxygen pressure dropped sharply in the course of the reduction of I by hydrogen. X-ray analysis of the solid phases formed during the reduction revealed a correlation between the oxygen pressure and the chemical characteristics of the crystals (magnesium ion fraction in the tetrahedral lattice nodes) of I. It was shown, in particular, that during the reduction the equilibrium oxygen pressure drops with a decrease in the magnesioferrite content and an increase in the magnetite content in the spinel phase and approaches, at 33% reduction, the dissociation pressure of magnetite. Orig. art. has 7 figures.

ASSOCIATION: Institut metallurgii Ural'skogo filiala AN SSSR (Institute of Metallurgy, Ural Branch, AN SSSR)

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4039618

SUBMITTED: 03May63 DATE ACQ: 19Jun64 ENCL: 00

SUB CODE: GC, GP NO REF SOV: 004 OTHER: 014

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4042598 S/0076/64/038/007/1811/1815

AUTHOR: Braynina, D. Z. (Sverdlovsk); Averbukh, B. D. (Sverdlovsk); Zhuravleva, M. G. (Sverdlovsk); Chufarov, G. I. (Sverdlovsk)

TITLE: Equilibrium conditions in the hydrogen reduction of manganese-zinc ferrites

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 7, 1964, 1811-1815

TOPIC TAGS: manganese ferrite, zinc ferrite, manganese zinc ferrite, ferrite reduction, ferrite dissociation, ferrite crystal structure, spinel structure, inverse spinel structure

ABSTRACT: Equilibrium conditions at 700 to 900C for the initial stages of hydrogen reduction of manganese-zinc ferrites of varying composition are investigated. The equilibrium constants were determined experimentally and the equilibrium partial pressures of oxygen following dissociation of the ferrites were calculated. The lattice constants were measured. It was shown that both the equilibrium partial pressure of oxygen and the lattice constants of manganese-zinc ferrites depend in a nonlinear manner on the composition. It

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4042598

was found that the dissociation pressure of $Mn_xZn_{1-x}Fe_2O_4$ increases at first from the x value corresponding to a zinc ferrite to a maximum with a 70% zinc ferrite content, then drops to the x value for $MnFe_2O_4$. The change in the constants of the crystal lattices of the solid solutions agrees with the fact that manganese ferrite is inverted by about 20%. Orig. art. has: 5 figures, 1 table, and 2 formulas.

ASSOCIATION: Institut metallurgii (Institute of Metallurgy)

SUBMITTED: 11Oct63 ENCL: 00

SUB CODE: MM, SS NO REF SOV: 005 OTHER: 013

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

MEN', A.N.; STAFEYEVA, N.M.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Thermodynamic analysis of equilibrium in the dissociation of ferrites. Dokl. AN SSSR 156 no. 4:912-915 Je '64. (MIRA 17:6)

1. Institut metallurgii, Sverdlovsk. 2. Chlen-korrespondent AN SSSR (for Chufarov).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 63763-65 EWT(m) JD/JW

ACCESSION NR: AP5018088 UR/0020/65/163/001/0144/0146

AUTHOR: Zhuravleva, M. G.; Mem', A. N.; Chufarov, G. I. (Corresponding member AN SSSR)

TITLE: Investigation of spinel type solid solutions from the standpoint of statistical thermodynamics.

SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 144-146

TOPIC TAGS: statistical thermodynamics, spinel type solid solution, phase composition, effective equilibrium oxygen pressure, component activity, solid phase composition, configurational mixing entropy, internal mixing energy

ABSTRACT: This work is a continuation of a previous investigation with the difference that the statistical method of calculating the activities of components in [illegible] which was found to be in satisfactory agreement with

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

the configurational mixing entropy

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L 63763-65

ACCESSION NR: AP5010088

$$\Delta S = -R\{\lambda_d \ln \lambda_d + \lambda_e \ln \lambda_e + (1 - \lambda_d - \lambda_e) \ln (1 - \lambda_d - \lambda_e) +$$
$$+ (c_t - \lambda_d) \ln (c_t - \lambda_d) + (c_n - \lambda_d) \ln (c_n - \lambda_d) + (1 + \lambda_d - \lambda_e) \ln (1 +$$
$$+ \lambda_d + \lambda_e) - c_t[\lambda_d^0 \ln \lambda_d^0 + 2(1 - \lambda_d^0) \ln (1 - \lambda_d^0) + (1 + \lambda_d^0) \ln (1 +$$
$$+ \lambda_d^0)] - c_n(\lambda_e^0 \ln \lambda_d^0 + 2(1 - \lambda_e^0) \ln (1 - \lambda_e^0) + (1 + \lambda_e^0) \ln (1 + \lambda_e^0)]\}$$

$$\Delta U = Nc_t c_n \alpha,$$

where $\alpha = v/kT$, N is the Avogadro number, and v is the algebraic sum of the energies of paired interactions between cations spaced at distances not exceeding the distance between tetrahedra of the dipol, the author derive a formula for

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

Card 2/3

L 63763-65

ACCESSION NR: AP5018038

tion of the solid phases in an equilibrium. Orig. art. has: 3 figures, 9 formulas.

ASSOCIATION: Institut metallurgii, Sverdlovsk (Metallurg Institute)

SUBMITTED: 28Dec64 ENCL: 00 SUB CODE: SS, TD

NO REF SOV: 004 OTHER: 002

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

SHCHEPETKIN, A.A.; STAFEYEVA, N.M.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions in the reduction of magnesium-manganese ferrites. Zhur. fiz. khim. 38 no.5:1135-1141 My '64. (MIRA 18:12)

1. Institut metallurgii Ural'skogo filiala AN SSSR. Submitted May 3, 1963.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 62566-65

ACCESSION NR: AP5019167 UR/0141/65/000/007/0062/0062

AUTHORS: Yatsykevich, K.; Zhuravleva, M.; Ostrova, L.

TITLE: Pine chips for egg packing

SOURCE: Sovetskaya potrebitel'skaya kooperatsiya, no. 7, 1965, 62

TOPIC TAGS: food, food preservation, packing material

ABSTRACT: Experiments performed on packing eggs in pine chips are described, and the results are compared to those of standard packing in fir and spruce shavings. Grade I hen eggs boxed in pine chips were kept in a warehouse at 12-18C and in humidity of 74-94%, transported by train (4 days) at 12.5-16.5C and 78-100% humidity, and kept in coolers (0.7-2.2C and humidity 78-92%) for over five months. Egg quality was checked ovoscopically and organoleptically every 10th day in the warehouse and every 30th day in the cooler. The intraoval processes were also observed. It was noted that aging proceeded slower in pine chips, and the nutritive and technical waste was smaller. The number of grade I eggs preserved at the end of the 5-month period (stored both in the warehouse and in coolers) increased by 9.9%, as compared with those packed in fir and spruce chips. After 5 months the eggs were marked as grade II. Sharp pine smell of the chips was reduced by drying them before

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 62566-65
ACCESSION NR: AP5019167

use. After 10 days egg shells acquired a slight pine odor which did not penetrate the interior and which disappeared after one month of storage. In general, the taste and the smell of eggs preserved in pine chips were superior to those of eggs packed in standard spruce and fir shavings.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

BRAYNINA, D.Z.; AVERBUKH, B.D.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions in the reduction of manganese-zinc ferrites by hydrogen. Zhur. fiz. khim. 38 no.7:1811-1815 Jl '64. (MIRA 18:3)

1. Institut metallurgii, Sverdlovsk.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

MEN', A.N.; STAFEYEVA, N.M.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Determination of the concentration dependence of some thermodynamic functions of solid ferrite solutions. Dokl. AN SSSR 157 no.6:1441-1444 Ag '64. (MIRA 17:9)

1. Institut metallurgii, Sverdlovsk. 2. Chlen-korrespondent AN SSSR (for Chufarov).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 21064-65 EED-2/EWT(1)/EWT(m)/EWP(b)/T/EWP(t) [illegible]/ASD/AEDC(a)/AS(mp)-2/ESD(dp) JD

ACCESSION NR: AP4044888 S/0020/64/157/006/1441/1444

AUTHOR: Ment, A. N.; Stafeyeva, N. M.; Bogoslovskiy, [illegible]; Zhuravleva, M. G.; Chufarov, G. I. (Corresponding member AN SSSR)

TITLE: Concerning the determination of the concentration dependence of some thermodynamic functions of solid solutions of ferrites

SOURCE: AN SSSR. Doklady*, v. 157, no. 6, 1964, 1441-1444

TOPIC TAGS: thermodynamic function, solid solution, ferrite, concentration dependence, configurational mixture entropy

ABSTRACT: The statistical computation of thermodynamic functions of solid solutions is complicated because of the large number of parameters which charact-

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

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L 21064-65

ACCESSION NR: AP4044888

tration c with copper magnetite is given as a function of the equilibrium degree λ of inversion of solid solution at a given temperature and λ_0 the inversion of copper ferrite at the same temperature. If the function λ(c) is not known, it can be assumed, in the first approximation that $\lambda = \lambda_0 c$. For the calculation of ΔS^{cont} the results of previous authors' work [illegible] years [illegible]

Orig. art. has: 3 figures and [illegible]

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

SUB CODE: TD, MM NO REF SOV: 006 OTHER: 004

Card 2/2

ZHURAVLEVA, M.G.; MEN', A.N.; CHUFAROV, G.I.

Statistical-thermodynamic aspect of spinel-type solid solutions. Dokl. AN SSSR 163 no.1:144-146 Jl '65. (MIRA 18:7)

1. Institut metallurgii, Sverdlovsk.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

BRAYNINA, D.Z.; AVERBUKH, B.D.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium in the reduction of manganese-zinc ferrite by hydrogen. Zhur.neorg.khim. 9 no.1:230-231 Ja '64. (MIRA 17:2)

1. Ural'skiy filial AN SSSR, Institut metallurgii.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

STAFEYEVA, N.M.; ZHURAVLEVA, M.G.; BOGOSLOVSKIY, V.N.; CHUFAROV, G.I.

Effect of Na_2CO_3 and K_2CO_3 additions on the reduction of oxides and copper ferrites. Zhur. neorg. khim. 9 no.2:447-450 F'64. (MIRA 17:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

SHCHEPETKIN, A.A.; KHROMYKH, L.G.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions during the reduction of magnesium ferrite by hydrogen. Dokl. AN SSSR 152 no.1:124-126 S '63. (MIRA 16:9)

1. Institut metallurgii Ural'skogo filiala AN SSSR. 2. Chlen-korrespondent AN SSSR (for Chufarov).
(Magnesium ferrates) (Reduction, Chemical)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.G.; MEN', A.N.; CHUFAROV, G.I.

Determination of the concentration dependence of the activity of components for simple binary oxides. Dokl. AN SSSR 159 no.4: 879-881 D '64 (MIRA 18:1)

1. Institut metallurgii, Sverdlovsk. 2. Chlen-korrespondent AN SSSR (for Chufarov).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

STAFEYEVA, N.M.; SHCHEPETKIN, A.A.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions in the reduction of ferrite $Mg_{0,5}Mn_{0,5}Fe_2O_4$ by hydrogen. Dokl. AN SSSR 151 no.2:347-349 Jl '63. (MIRA 16:7)

1. Institut metallurgii Ural'skogo filiala AN SSSR, Sverdlovsk.
2. Chlen-korrespondent AN SSSR (for Chufarov).
(Ferrites (Magnetic materials)) (Hydrogen)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

BOGOSLOVSKIY, V.N.; STARTSEVA, I.Ye.; ZHURAVLEVA, M.G.; SHCHEPETKIN, A.A.; CHUFAROV, G.I.; SHUR, Ya.S.

Effect of the phase constitution on the magnetic properties of magnesium-manganese ferrites with a rectangular hysteresis loop. Fiz. met. i metalloved. 15 no.2:181-186 F '63. (MIRA 16:4)

1. Institut metallurgii Ural'skogo filiala Akademii nauk SSSR i Institut fiziki metallov AN SSSR.

(Ferrates—Magnetic properties)
(Hysteresis loop)
(Phase rule and equilibrium)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

S/126/63/015/002/004/033
E039/E420

AUTHORS: Bogoslovskiy, V.N., Startseva, I.Ye., Zhuravleva, M.G., Shchepetkin, A.A., Chufarov, G.I., Shur, Ya.S.

TITLE: The effect of phase composition on the magnetic properties of magnesium-manganese ferrite with a rectangular hysteresis loop

PERIODICAL: Fizika metallov i metallovedeniye, v.15, no.2, 1963, 181-186

TEXT: A magnesium-manganese ferrite with a rectangular hysteresis loop and with a sufficiently simple composition was used to facilitate the interpretation of the results obtained. Toroidal samples 12 mm outer dia, 8 mm inner dia and 3 mm high were used. After a second annealing in air at 1200°C they were cooled in a CO_2 atmosphere. The composition was Fe_2O_3 - 42.8 mol%, MgO - 14.4%, MnO - 42.8% (as $MnCO_3$) which corresponds with the formula

$$(MgFe_2O_4)_{0.3}(MnFe_2O_4)_{0.6}(Mn_3O_4)_{0.1}$$

The dependence of the coercive force H_c, the residual

Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

S/126/63/015/002/004/033
E039/E420

The effect of phase ...

induction B_r, the maximum induction B_m, the induction in the field of 90 Oe B_{90}, and B_r/B_m on the pressure of oxygen when annealing at 600°C was investigated. B_r shows a steady decrease with increasing oxygen pressure up to 150 mm Hg, while for the other parameters there is little change for oxygen pressures above 50 mm. Maximum squareness of the hysteresis loop is obtained at 10 mm pressure of oxygen. A comparison of the results of physicochemical analysis, X-ray and magnetic investigation suggests that the spontaneous rectangularity of the hysteresis loop in this ferrite depends on the presence of the Mn^{3+} ion which leads to local distortions in the crystal lattice. There are 2 figures.

ASSOCIATIONS: Institut metallurgii UFAN SSSR
(Institute of Metallurgy UFAN USSR)
Institut fiziki metallov AN SSSR
(Institute of Physics of Metals AS USSR)

SUBMITTED: August 10, 1962

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 12902-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AP3003555 S/0020/63/151/002/0347/0349 58 57

AUTHORS: Stafeyeva, N. M.; Shchepetkin, A. A.; Bogoslovskiy, V.N.; Zhuravleva, M.G.; Chufarov, G.I. (Corr. member, Academy of Sciences SSSR)

TITLE: Study of equilibrium condition during hydrogen reduction of ferrite Mg sub 0.5 Mn sub 0.5 Fe sub 2 O sub 4 27

SOURCE: AN SSSR. Doklady, v. 151, no. 2, 1963, 347-349

TOPIC TAGS: equilibrium conditions, hydrogen, hydrogen reduction, ferrite, magnesium ferrite, manganese ferrite, solid phase, lattice, S-ray analysis

ABSTRACT: Reduction of ferrite Mg sub .5Mn sub .5Fe$_2$O$_4$ was studied under equilibrium conditions at 800, 900 and 1000 degrees C. Partial pressure of oxygen during dissociation of the ferrite was calculated. Composition of solid phases existing during the various reduction stages was determined. Ferrite Mg sub .5Mn sub .5Fe$_2$O$_4$ is a solid solution of magnesium and manganese ferrites with a 1:1 molar ratio. The original sample was obtained by heating a mixture of the required

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 12902-63
ACCESSION NR: AP3003555

amounts of MgO, MnO and Fe_2O_3 in CO_2 atmosphere at 1200 degrees for 30 hours. Reduction was carried out in a closed evacuated system through which a mixture of hydrogen and water vapor was circulated until equilibrium was reached. Water vapor was maintained at a pressure equal to that of saturated water vapor at 0 degrees C. Partial pressure of hydrogen in the gaseous equilibrium mixture was determined after freezing out the water vapor in a trap immersed in liquid nitrogen. Partial pressure of oxygen was determined from the values $K = \frac{P_{H_2O}}{P_{H_2}}$. Extent of reduction was determined from the hydrogen consumption. A reduction of 100% was assumed for an oxide having the composition Mg sub .5Mn sub .50. Solid phases existing at equilibrium were subjected to X-ray analysis (Debye method and with a camera with a 57.3mm diameter). Photographs were taken under FeK illumination using a manganese filter. Relationships between partial pressure of oxygen at equilibrium and the extent of reduction of the ferrite Mg sub .5Mn sub .5Fe_2O_4 at 800, 900 and 1000 degrees C are presented. Relationships between the size of lattices

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L 12902-63

ACCESSION NR: AP3003555

in the three solid phases and the extent of reduction, as well as relationships between the concentration of the various phases and the extent of ferrite reduction are given. Orig. art. has: 3 figures.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR, Sverdlovsk (Metallurgical Institute, Ural branch, Academy of Sciences, SSSR)

SUBMITTED: 01Apr63 DATE ACQ: 30Jul63 ENCL: 00

SUB CODE: CH NO REF SOV: 004 OTHER: 006

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

STAFEYEVA, N.M.; BOGOSLOVSKIY, V.N.; SHCHEPETKIN, A.A.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions in the reduction of copper ferrite $CuFe_2O_4$ by hydrogen. Dokl. AN SSSR 146 no.4:874-876 O '62. (MIRA 15:11)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
2. Chlen-korrespondent AN SSSR (for Chufarov).

(Copper ferrate)
(Hydrogen)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.G.; CHUFAROV, G.I.; KHROMYKH, L.G.

Effect of alkali metal and alkaline earth carbonates on the reduction of iron oxides by graphite. Dokl. AN SSSR 135 no.2:385-388 N '60. (MIRA 13:11)

1. Institut metallurgii Ural'skogo filiala AN SSSR. 2. Chlen-korrespondent AN SSSR (for Chufarov).
(Iron oxide) (Graphite) (Alkali metal carbonates)
(Alkaline earth carbonates)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.G.; BOGOSLOVSKIY, V.N.; CHUFAROV, G.I. (Sverdlovsk)

Effect of potassium and sodium carbonate on the reduction of nickel and cobalt oxides and ferrites by graphite. Zhur. fiz. khim. 34 no.12:2704-2708 D '60. (MIRA 14:1)

1. Ural'skiy filial AN SSSR, Institut metallurgii.
(Potassium carbonate) (Sodium carbonate)
(Reduction, Chemical) (Ferrates)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

S/076/60/034/012/007/027
B020/B067

AUTHORS: Zhuravleva, M. G., Bogoslovskiy, V. N., and Chufarov, G. I.

TITLE: Effect of Additions of Potassium and Sodium Carbonate on the Reduction of Oxides and Ferrites of Nickel and Cobalt by Graphite

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 12, pp. 2704-2708

TEXT: Nickelous oxide was obtained by decomposing nickel nitrate at 1100°C on air while cobalt oxide was obtained by thermal dissociation of Co_3O_4 at 950° in nitrogen atmosphere. The corresponding ferrites were prepared by a 30-hour annealing of the oxides in a mixture with iron oxide at 1200°C. Acheson graphite which had been annealed at 1100° in vacuo was used as oxidzing agent. Sodium and potassium carbonate were taken in quantities of 1 wt% of the oxide or ferrite, and graphite was taken in a quantity which was three times higher than the amount necessary for the reduction to the metal. The weighed portion was 0.5g of the mixture.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

Effect of Additions of Potassium and Sodium Carbonate on the Reduction of Oxides and Ferrites of Nickel and Cobalt by Graphite

S/076/60/034/012/007/027
B020/B067

The reduction of nickelous oxide with graphite at 700°C is delayed as soon as a yield of 50% is attained. In the presence of 1% K_2CO_3 or Na_2CO_3 the reduction is accelerated and completed. The accelerating effect of potassium and sodium is almost the same. Cobaltous oxide is reduced at higher temperatures than nickelous oxide, and the kinetic curves have no maximum (Fig. 2). The addition of K_2CO_3 or Na_2CO_3 increases the reduction rate at 800° by many times. In this case the effect of K_2CO_3 is stronger than that of Na_2CO_3. Also the reduction of nickel ferrite is accelerated by adding the above-mentioned salts. In this case the initial reaction temperature is also reduced (Fig. 3). The accelerating effect of potassium carbonate is higher than that of sodium carbonate. Also the reduction of cobalt ferrite is considerably accelerated by adding the salts. The reduction of nickel ferrite without addition proceeds under the formation of metallic nickel whose lattice parameters gradually increase. During the reduction between 35 and 50% the lattice parameters of the solid solution Ni - Fe do not change. The results of the X-ray structural analysis of

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

Effect of Additions of Potassium and Sodium Carbonate on the Reduction of Oxides and Ferrites of Nickel and Cobalt by Graphite

S/076/60/034/012/007/027
B020/B067

the reduction products of nickel ferrite show that the phase with spinel lattice, i.e., ferrite, is present in all reaction stages to almost 70%. The phase with NaCl lattice, which in this case corresponds to wüstite or the solid solution of Fe(Ni)O, was first observed in small quantities with a 51% reduction, while it predominates with a 71% reduction. The metallic phase which is formed in the reduction of nickel ferrite with additions is a solid solution of iron in nickel. The change of the lattice parameters of this phase is shown. The phase composition of the solid reduction products and the parameters of the metallic phase indicate that in the reduction of nickel ferrite with additions the number of the Fe-ions which pass into the metallic phase is higher than in the reduction without additions. There are 5 figures and 8 references: 7 Soviet and 1 US.

ASSOCIATION: Ural'skiy filial AN SSSR, In-t metallurgii (Ural Branch of the AS USSR, Institute of Metallurgy)

SUBMITTED: March 10, 1959

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

Influence of Carbonates of Alkali Metals and Alkaline Earths on the Reduction of Iron by Graphite

S/020/60/135/002/031/036
B016/B052

Rb and Cs salts accelerate the reduction of magnetite considerably. This effect is particularly strong at the beginning of the process. This is explained by the high volatility of Rb and Cs salts which, at 950-990°C, quickly disappear from the reaction zone, as was shown experimentally. $SrCO_3$ mainly accelerates the second stage of the process. The effect of Li_2CO_3 is low. Fig.2 illustrates the reduction of ferrous oxide by graphite with and without the addition of the four carbonates. In this case, the addition of lithium was also ineffective. $SrCO_3$, however, accelerated the process by a multiple. The character of kinetics remained unchanged. Cs_2CO_3, like K_2CO_3, accelerates the reduction already at the beginning. The process starts at maximum rate and slows down after a 40-50% reduction. Summing up: The accelerating effect of alkali metals on the reduction of iron oxides with graphite increases during the transition from light to heavy metals, and is due to the action of ions of monovalent metals on the electron state in the crystal lattice of iron oxide. The salts of divalent alkaline earths ($SrCO_3$) mainly

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

Influence of Carbonates of Alkali Metals and Alkaline Earths on the Reduction of Iron by Graphite

S/020/60/135/002/031/036
B016/B052

accelerate the reduction of wustite to the metal. This is closely related to the redistribution of electron density in the imperfect structure of wustite. There are 4 figures and 3 Soviet references.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR (Institute of Metallurgy of the Ural Branch of the Academy of Sciences USSR)

SUBMITTED: July 19, 1960

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.G.; CHUFAROV, G.I.; BRAYNINA, D.Z.

Reduction of manganese ferrite by hydrogen and graphite. Dokl. AN SSSR 132 no.5:1074-1077 Je '60. (MIRA 13:6)

1. Institut metallurgii Ural'skogo filiala Akademii nauk SSSR.
2. Chlen-korrespondent AN SSSR (for Chufarov).
(Manganese ferrate) (Graphite)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Reduction of nickelous and cobaltous oxides by graphite. Trudy Inst.met.UFAN SSSR no.3:63-66 '59. (MIRA 13:4)
(Nickel--Metallurgy) (Cobalt--Metallurgy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

81701

S/020/60/132/05/28/069
B011/B126

5.4110

AUTHORS: Zhuravleva, M. G., Chufarov, G. I., Corresponding Member AS USSR, Brayniha, D. Z.

TITLE: Reduction of Manganese Ferrite by Hydrogen and Graphite

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5, pp. 1074 - 1077

TEXT: The authors carried out the above reduction by hydrogen in a closed apparatus with gas circulation. The reduction rate of ferrite rises as the reduction progresses and reaches a maximum at about 30-40% oxygen removal (Fig. 1). The reduction then slows down and comes practically to a halt after removal of 75% O_2. According to X-ray-structural analysis the sample contained metallic iron and manganous oxide. The use of graphite powder in a vacuum of about 10^{-2} mm caused the reduction rate to decrease with progressing process (Fig. 2). The kinetic curve shows a clear minimum at about 25% reduction. The reduction then accelerates a little, only to sink to nil towards the end of the process.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

31701

Reduction of Manganese Ferrite by Hydrogen and Graphite

S/020/60/132/05/28/069
B011/B126

Graphite completely reduces manganoferrite at 1,000°. The Spinell phase can only be proved for up to 20% reduction. Possible phases here are ferrous oxide, manganous oxide, or their solid solutions. No metallic phase is detectable in this study. Above a 20% reduction there are two phases, the lower oxide and the metal phases. There are solid solutions of stable concentration here. According to the phase diagram of the Mn - Fe system (Ref. 6), the solid γ-solution is stable at 1,000°. X-ray pictures show a predominant quantity of the solid α-solution, which is formed by cooling the γ-solution. Admixtures of potassium- or sodium carbonates accelerate the reduction of manganoferrite (Fig. 2). A phase with a Spinell-like lattice, similar to that of the ferrite used, is present in an 18.93% reduced sample, but it cannot be proved at 28.9% reduction. A phase with an NaCl-like lattice (which corresponds to the sub-oxide phase of MnO), is present in all samples. Its lattice parameter increases with the percentage of the reduction and approaches the size of the MnO-lattice, without, however, reaching it (Fig. 3). On the basis of these data the authors give a reduction mechanism of manganese-ferrite: when the oxygen is removed, a surplus of metal ions is formed on the surface of the crystal lattice. They can either form a ferrite

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

81701

Reduction of Manganese Ferrite by Hydrogen and Graphite

S/020/60/132/05/28/069
B011/B126

lattice or a metal phase. Which process predominates depends on the ratio of oxygen removal rate to the reaction diffusion. When hydrogen is used for the reduction, the oxygen removal rate is higher than that of the diffusion. When graphite is used for the reduction, both rates are commensurable. The admixtures of alkali metal salts accelerate the chemical interaction of both the reducing compound and of that which is to be reduced. This is related to the variation in the electron condition of the lattice, into which univalent ions penetrate (Ref. 9). There are 3 figures and 9 references: 4 Soviet, 4 American, and 1 German.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR (Institute of Metallurgy of the Ural Branch of the Academy of Sciences, USSR)

SUBMITTED: March 14, 1960

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

67732

18.8100

SOV/126-7-3-40/44

AUTHORS: Zhuravleva, L. I. and Noskov, M. M.

TITLE: On the Method of Measuring Optical Constants of Metals (K metodike izmereniya opticheskikh konstant metallov)

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 7, Nr 3, pp 475-476 (USSR)

ABSTRACT: A high-precision variant of the polarimetric method of measuring optical constants of metals was described earlier (Ref 1). Later this variant was improved and used to study invisible surface layers on metals. The latter application is described in the present paper. A monochromatic light beam passed through two mechanically coupled polaroids. The polaroids were replaced by selenium polarizers for measurements in the infrared region. Four mirrors made of the metal investigated were placed between the polaroids in such a way that light was reflected from each of the mirrors at the same angle, whose value was between 45 and 80°. To determine the reduced polarization azimuth Ψ and the phase difference Δ between the polarized components (Ψ and Δ are necessary to calculate the optical constants), it is sufficient to carry out measurements at one value of this reflection

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angle. When the coupled polaroids are uniformly rotated about the optical axis the intensity at the entry slit of a light receiver (a photoelectric photometer) varies with the angle of rotation α according to

$$y = A + 2B \sin^2 \alpha + C \sin^4 \alpha$$

Between zero and 90° three extrema of y are observed (they are a, b and c). The relationships between Ψ and Δ and the values a, b and c are given by

$$\operatorname{tg} \Psi = (a/c)^{1/8}; \quad \cos 4\Delta = \frac{b - \sqrt{(a-b)(c-b)}}{\sqrt{ac}}$$

Here $a < c$ (i.e. $\Psi < 45^\circ$) and $0^\circ < \Delta < 90^\circ$. In the presence of films on the metal surface another pair of values Ψ' and Δ is obtained; these, together with Ψ and Δ, make it possible to calculate the thickness and the refractive index of the surface layer (Ref 2).

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

67732

SOV/126-7-3-40/44

On the Method of Measuring Optical Constants of Metals

If the number of mirrors is less than four, the missing samples are replaced by standard mirrors, e.g. of gold deposited on glass for which the value ψ_o and Δ_o are measured separately. The method can be used to detect and measure thicknesses of very thin film of the order of 10 Å. In vacuo the method can be used to study adsorption of gases on metals. Since no phase compensators are employed the method can be used also to measure the optical constants of metals in the ultraviolet and infrared regions.
There are 2 Soviet references.

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

SUBMITTED: January 8, 1959

Card 3/3

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

PROCESSES AND PROPERTIES INDEX

CA

21

Low-temperature carbonization of the individual components of peat. M. M. Zhuravleva. *Khim. Tverdogo Topliva* 7, 328-33(1936).—Coke and gas were formed from water-sol. substances, lignocellulose residue and, mainly, from humic acids (30%). Water-sol. substances yielded 25 and humic acids 20% of the pyrogenetic water. Bitumen "A" (m. 94°) yielded 70% of all the tar, 90% of the wax and paraffins, over 50% of the acidic compds. and the larger part of the phenols. Humic acids yielded 40% of the N and over 40% of the volatile phenols; and water-sol. substances yielded 30% of the N and 25% of the volatile phenols. Water-sol. substances produced the hardest coke. Seven references. A. A. Podnovny

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.M.

ZHURAVLEVA, M.M., kandidat tekhnicheskikh nauk; RAKOVSKIY, V.Ye.

Change in wood in the process of becoming solid mineral fuel. Trudy Inst.torf. AN BSSR no.2:59-67 '53. (MLRA 8:11)

1. Chlen-korrespondent Akademii nauk BSSR (for Rakovskiy)
(Wood) (Peat)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.M.

✓ 3864. HUMIC ACIDS. Zhuravleva, M.M. and Rakovskii, V.E. (Trans. Inst. Torfa Akad. Nauk Belorussk. SSR (Trans. Inst. Peat White Russ. S.S.R.), 1953, vol. 2, 69-79; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1955, (21), 4998). The composition was examined of humic acids extracted from various peats and the following peat-forming materials: birch leaves, pine, birch, pine and yew wood and lignite from brown coal. Determinations were made of the concentration of humic acids in the original material and the concentration in them of ash, acid radicals, and of carboxyl and hydroxyl radicals. There are considerable differences between humic acids from different vegetable species. Separation of the humic acid from one of the peats, after treatment in stages with alkali and precipitation with acid, showed that humic acids from peat consist of hydroxycarboxylic acids of different structures, mostly containing carboxyl radicals.

FU (1)

Cand Tech Sci

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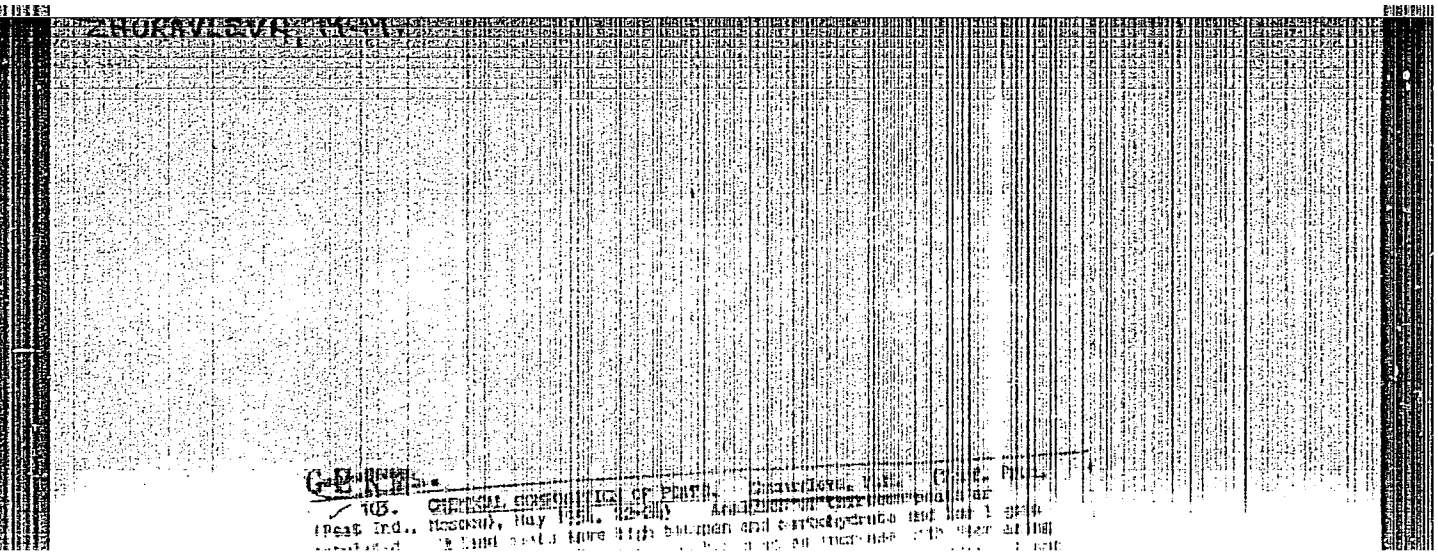

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

BURNYLEVA, M.M.

ХИМИЯ ПРОЦЕССОВ ОБРАЗОВАНИЯ
ГУМУСОВЫХ ТОПЛИВ

В. Е. Раковский, М. М. Журавлева, В. С. Попова,
М. А. Раковская, Л. И. Кигульбекян, В. А. Батура

VIII Mendeleyev Congress for General and Applied Chemistry in
Section of Chemistry and Chemical Technology of Fuels,
publ. by Acad. Sci. USSR, Moscow 1959

abstracts of reports scheduled to be presented at above mentioned congress,
Moscow, 15 March 1959.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

BERLINER, M.A., kand. tekhn. nauk, red.; ZHURAVLEVA, M.N., red.izd-va; EL'KIND, V.D., tekhn. red.

[Automation of drying processes in industry and agriculture] Avtomatizatsiia protsessov sushki v promyshlennosti i sel'skom khoziaistve; sbornik statei. Moskva, Mashgiz, 1963. 290 p. (MIRA 17:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

MALIS, Avram Yakovlevich; DEMIDOV, Aleksey Romanovich; KOZHUKHOVSKIY, I.Ye., kand. tekhn.nauk, retsenzent; ZHURAVLEVA, M.N., red. izd-va; CHERNOVA, Z.I., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Machines for grain cleaning by the aerodynamic method] Mashiny dlia ochistki zerna vozdushnym potokom. Moskva, Mashgiz, 1962. 175 p. (MIRA 16:8)

(Grain--Cleaning)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, Z. N.

Dissertation: "A Study of the Stone Fruits of the L'vov Region as Marketable Products." Cand Tech Sci, Moscow Institute of National Economy imeni G. V. Plekhanov, 30 Jun 54. (Vechernyaya Moskva, Moscow, 22 Jun 54)

SO: SUM 318, 23 Dec 1954

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.N.

USSR /Chemical Technology. Chemical Products and Their Application I-32

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32991

Author : Zhuravleva M. N.

Inst : L'vov Institute of Commerce and Economics.

Title : Chemical Composition of Drupes of the L'vov Oblast' and Their Suitability for Processing

Orig Pub: Nauch. zap. L'vovsk. torgovo-ekon. in-t, 1956, No 2, 169-181

Abstract: Most varieties of cherries have fruit weighing 4.0-6.5 g. The investigated varieties contain (in %): 9.57-16.04 sugars, 0.21-0.47 pectic

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

USSR /Chemical Technology. Chemical Products and Their Application I-32

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32991

substances, 0.45-0.97 nitrogeneous substances, 0.16-0.32 cellulose, 0.26-0.43 ash (in pulp), 3.85-12.80% ascorbic acid; the acidity is of 0.33-0.63 %. The best varieties of cherries are Gedel'finger, Black Late, Pink Napoleon, Gros Noir, Large Pink and Mokrotinka. Best varieties of red cherries are Griot Podbel'skiy, Griot Ukrainian and Shpanka. The plums contained (in %) 7.37-32.36 sugars, 0.10-0.27 tannins, 0.65-1.20 pectic substances, 0.39-0.90 nitrogeneous substances, 0.31-0.54 cellulose, 0.22-0.56 ash, 2.09-10.38 mg% ascorbic acid; acidity 0.63-1.68%. Best varieties of plums are Green

Card 2/3

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

USSR /Chemical Technology. Chemical Products and Their Application I-32

Food industry

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32991

Reine Claude, Kirke, Al'tan Reine Claude, Vengerka Ital'yanskaya, Livanka, Ullens Reine Claude and Vengerka Byul'skaya. Stewed fruit preparations made from drupes of the L'vov Oblast' are characterized by a good blending of sugars and acids.

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ANIKINA, M.Kh.; GOGITIDZE, O.N.; ZHURAVLEVA, M.S.; KOZLOV, A.A.; KOTLYAREVSKIY, D.M.; MANDZHAVIDZE, Z.Sh.; MESTVIRISHVILI, A.N.; NYAGU, D.; OKONOV, E.O.; PETROV, N.I.; ROZANOVA, A.M.; RUSAKOV, V.A.; TAKHTAMYSHEV, G.G.; CHKHAIDZE, L.V.; U TSZUN-FAN' [Wu Tsung-fan]; TSERELOV, A.A.

Observation of $K_2^0 \rightarrow \pi^+ + \pi^- + \pi^0$ decays. Zhur. eksp. i teor. fiz. 45 no.3:469-473 S '63. (MIRA 16:10)

1. Ob"yedinennyy institut yadernykh issledovaniy i Institut fiziki AN Gruzinskoy SSR.
(Photography, Particle track) (Mesons)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ANIKINA, M.Kh.; ZHURAVLEVA, M.S.; KOTLYAREVSKIY, D.M.; MAMDZHAVIDZE, Z.Sh.; MESTVIRISHVILI, A.N.; NYAGU, D.V.; OKONOV, E.O.; PETROV, N.I.; RUSAKOV, V.A.; TAKHTAMYSHEV, G.G.; CHKHAIDZE, L.V.; U TSZUN-FAN' [Wu TSung-fan]

Estimation of the relative probability of $K_2^0 \rightarrow 3\pi^0$ decay. Zhur. eksper. i teor. fiz. 46 no.1:59-66 Ja'64. (MIRA 17:2)

1. Ob"yedinennyy institut yadernykh issledovaniy i Institut fiziki AN Gruzinskoy SSR.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4012523 S/0056/64/046/001/0059/0066

AUTHORS: Anikina, M. Kh.; Zhuravleva, M. S.; Kotlyarevskiy, D. M.; Mandzhavidze, Z. Sh; Mestvirishvili, A. N.; Nyagu, D. V.; Okonov, E. O.; Petrov, N. I.; Rusakov, V. A.; Takhtamy*shev, G. G.; Chkhaidze, L. V.; Wu, Tsung-fan

TITLE: Estimate of the relative possibility of the $K_2^0 \to 3\pi^0$ decay

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 59-66

TOPIC TAGS: K_2 decay, Dalitz pair, neutral kaon decay, CP invariance, selection rules, V sup 0 event, ionization selection rule

ABSTRACT: Continuing an earlier investigation (D. V. Nyagu, E. O. Okonov, N. I. Petrov, A. M. Rozanova, and V. A. Rusakov, ZhETF v. 40, 1618, 1961), the authors registered the $K_2^0 \to 3\pi^0$ decay by the Dalitz pairs observed in a one-meter cloud chamber placed in a beam of neutral particles from a proton synchrotron, using an experimental

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ACCESSION NR: AP4012523

setup described earlier (ZhETF v. 45, 469, 1963). Applying more stringent selection rules, they found the ratio of the probability of the $K_2^0 \rightarrow 3\pi^0$ decay to the probability of all K_2^0 meson decays to be (0.24 ± 0.08). "We thank the proton synchrotron crew, whose precise work enabled us to set up the project. We are deeply grateful to B. M. Pontecorvo who called attention to the possibility of investigating $K_2^0 \rightarrow 3\pi^0$ decay by means of Dalitz pairs and for numerous discussions. We are grateful to E. L. Andronikashvili, V. I. Veksler, and V. P. Dzhelepov for collaboration, and also to the group of laboratory assistants and particularly student Yu. Luksty*n'sh of Riga University for participating in the measurements." Orig. art. has: 2 figures, 1 formula, and 1 table.

ASSOCIATION: Ob"yedinennyy institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research); Institut fiziki AN GruzSSR

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ACCESSION NR: AP4012523

(Physics Institute, AN GruzSSR)

SUBMITTED: 10Jul63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: PH NO REF SOV: 004 OTHER: 006

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 19639-63 EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3007064 S/0056/63/045/003/0469/0473

92
46

AUTHORS: Anikina, M. Kh.; Gogitidze, O. N.; Zhuravleva, M. S.; Kozlov, A. A.; Kotlyarevskiy, D. M.; Mandzhavidze, Z. Sh.; Mestvirishvili, A. N.; Nyagu (Neagu), D.; Okonov, E. O.; Petrov, N. I.; Rozanova, A. M.; Rusakov, V. A.; Takhtamyshev, G. G.; Chkhaidze, L. V.; Wu Tsung-fan; Tserelov, A. A.

TITLE: Observation of the decays $K_2^0 \rightarrow \pi^+ + \pi^- + \pi^0$

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 469-473

TOPIC TAGS: neutral kaon decay, four charged particle decay, decay probability, proton synchrotron, cloud chamber

ABSTRACT: Four decays of long-lived K^0 mesons with concomitant emission of four charged particles have been observed in a cloud chamber bombarded by a neutral particle beam from the OIYaN (Joint Inst. of Nuc. Research) proton synchrotron. All four events are identified

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L 19639-63
ACCESSION NR: AP3007064

2

as the decays

$$K_2^0 \rightarrow \pi^+ + \pi^- + \pi^0 \begin{cases} \gamma \\ e^+ + e^- \end{cases} \qquad (1)$$

An estimate of the probability of the decay $K_2^0 \rightarrow \pi^+ + \pi^- + \pi^0$ relative to all K_2^0 decays involving secondary particles yields a value 0.08 ± 0.04. "In conclusion, the authors express their gratitude to engineers N. Rusishvili and A. Yu. Shtayerman of the Physics Institute of the Georgian Academy of Sciences, who participated in the construction and adjustment of the cloud chamber. The authors are also grateful to the proton cyclotron crew and to the group of laboratory assistants. The authors are most grateful to V. I. Veksler and B. M. Pontecorvo for interest in the work and for numer-

Card 2/3

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

L 19639-63
ACCESSION NR: AP3007064

ous discussions, as well as to E. L. Andronikashvili and V. P. Dzheleopov for interest and collaboration." Orig. art. has: 1 figure, 2 formulas, and 2 tables.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research); Institut fiziki Akademii nauk Gruzinskoy SSR (Physics Institute, Academy of Sciences, Georgian SSR)

SUBMITTED: 02Apr63 DATE ACQ: 08Oct63 ENCL: 00

SUB CODE: PH NO REF SOV: 002 OTHER: 003

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M. V.

Dissertation: "The Absorption of Mineral Nutritive Substances by Tree Seedlings." Cand Biol Sci, Inst of Plant Physiology imeni K. A. Timiryazev, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

RUMANIA/Plant Physiology. Mineral Nutrition

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 86661

Author : Akhromeyko A.L., and Zhuravleva N.V.
Inst : -
Title : One in a Collection of Articles on "The Application of Isotopes in Agrochemical and Soil Research" The Absorption of Mineral Nutrients in the Roots of Wood Plants

Orig Pub : AS USSR Press, 1955, pp 188-241

Abstract : No abstract

Card : 1/1

17

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

USSR/Physiology of Plants. Water Regimen I-3

Abs Jour : Ref Zhur-Biologiya, No 2, 1958, 5666

Abstract : 15 min. on sunny days and 60 min. on cloudy days. Conclusions on the rapidity of the water flow were made on the basis of substances absorbed by the stem and leaves at definite periods of time. The rapidity of the flow in the xylem fluctuated between 0 to 10cm per minute in different kinds of trees; at an air temperature of 23-26° and with good light it was approximately twice as high as that at the temperature of 10-11° and poor light. The rapidity of the movement of heavy water and P^{32} was almost the same. During the summer months a reverse relationship between the moisture in the leaves and the rapidity of the water flow was established. In the evening and at the termination of the vegitation period the rapidity of the water flow considerably dropped.

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.V. (Moskva)

Cicatricial keloids of the skin following burns. Arkh. pat. 27 no.6:34-40 '65. (MIRA 19:1)

1. Otdel patologicheskoy anatomii (zav. - prof. D.S. Sarkisov) Instituta khirurgii imeni A.V. Vishnevskogo (direktor - deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR i Institut morfologii cheloveka (direktor deystvitel'nyy chlen AMN SSSR prof. A.P. Avtsyn) AMN SSSR. Submitted February 18, 1964.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

POLOTSKAYA, Ye.L., kand.med.nauk; ZHURAVLEVA, M.V.

Concerning the correlation of the Schoenlein-Henoch disease with rheumatic fever. Vop.revm. 3 no.1:79-82 Ja-Mr '63. (MIRA 16:4)

1. Iz terapevticheskogo otdeleniya (zav. - doktor med.nauk T.I.Meyerson) Moskovskoy gorodskoy bol'nitsy No.22 (glavnyy vrach M.Ye.Glinka) i patologoanatomicheskogo otdeleniya (zav. - kand.med.nauk N.N.Pokrovskaya) gorodskoy klinicheskoy bol'nitsy No.5 (glavnyy vrach L.I.Erman), Moskva.
(COLLAGEN DISEASES)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, M.V.; PAVLOVA, I.V.; SVINTINNIKOV, S.G. (Moskva)

Results of active outpatient service for alcoholics in the collective of an industrial plant. Trudy Gos. nauch.-issl. inst. psikh. 38:302-305 '63 (MIRA 16:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

AKHROMEYKO, A.I.; ZHURAVLEVA, M.V.; SAVINA, A.V.

Effect of gibberellin on growth and translocation of substances in arboraceous plants. Izv. AN SSSR. Ser. biol. 26 no.1:79-82 Ja-F '61. (MIRA 14:3)

1. Laboratory of Physiology, the Union Institute of Forestry and Mechanization, Pushkin city, Moscow District.
(GIBBERELLINS) (TREES--PHYSIOLOGY)
(PLANTS, MOTION OF FLUIDS IN)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

TIKHOMIROV, V.S.; TIKHOV, G.A., redaktor; ZHURAVLEVA, N., redaktor.

[Seasonal changes in certain reflective properties of plants and the problem of vegetation on Mars] Sezonnye izmeneniia nekotorykh otrazhatel'nykh svoistv rastenii i vopros o rastitel'nosti na Marse. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR, 1951. 102 p. (MLRA 7:9)

1. Deystvitel'nyy chlen AN Kaz. SSR (for Tikhov)
(Color of plants) (Plurality of worlds) (Mars(Planet)--Plants))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.A.

Contamination of equipment surfaces and employees' hands by Escherichia coli in eating establishments. Gig. i san. 25 no. 6:102 Je '60. (MIRA 14:2)

1. Iz sanitarno-epidemiologicheskoy stantsii Tashkentskogo zheleznodorozhnogo uzla.
(RESTAURANTS, LUNCHROOMS, ETC.—SANITATION)
(ESCHERICHIA COLI)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

MAKSUMOV, S.S.; SARSIS'YANTS, S.L.; SHEREMET'YEV, N.N.; CHICHERIN, P.I.; ZAPROMETOVA, L.V.; ZHURAVLEVA, N.A.

Virusological characteristics of the outbreak of poliomyelitis in Tashkent in 1959. Vop. virus. 7 no.2:239 Mr-Ap '62. (MIRA 15:5)

1. Tashkentskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(TASHKENT--POLIOMYELITIS)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

S/135/61/000/003/014/014
A006/A001

AUTHOR: Zhuravleva, N. A., Engineer

TITLE: Conference on the Production of Electrodes for Resistance Welding Machines

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 3, p. 44

TEXT: The Conference on the production of electrodes for resistance welding machines was convened in Leningrad from October 20 - 22, 1960 by the All-Union Scientific Research Institute of Electric Welding Equipment (VNIIESO). The Conference heard the following reports: S. K. Sliozberg, VNIIESO, on "The State and Outlooks of Developing Electrodes for Resistance Welding Machines"; Professor M. V. Zakharov on investigations carried out at the Moskovskiy institut tsvetnykh metallov i zolota imeni M. I. Kalinina (Moscow Institute of Non-Ferrous Metals and Gold imeni M. I. Kalinin) for developing alloys for electrodes of resistance welding machines; engineer N. A. Kozlov, Sverdlovsk NIIIMash, on the work performed for determining the relative durability of copper and Бр.Х (Br. Kh), МЦ-4 (MTs-4) and МЦ-5Б (MTs-5B) electrodes for welding carbon steel on spot and seam welding machines, and of durability of copper and МЦ-2 (MTs-2) alloy

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

S/135/61/000/003/014/014
A006/A001

Conference on the Production of Electrodes for Resistance Welding Machines

electrodes on butt welding machines; engineer M. V. Demchenkov, Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev) on "The Manufacture of Electrodes by Cold-Heading"; engineer L. U. Manchinskiy, VNIIESO, on "Normalization of Electrodes for Resistance Welding Machines"; engineer V. S. Sergeyev, NIAT, on "Electrode Materials for Resistance Welding Machines"; engineer L. M. Mirkina, VNIIESO, on determining the durability of spot-welding electrodes of various alloys on carbon and stainless steels; engineer S. O. Libo on determining the durability of spot welding electrodes; engineer V. I. Brabets on the manufacture and testing of experimental МЦ (MTs) alloys during 1957-58 at the Kamensk-Ural'sk Plant for Processing Non-Ferrous Metals; engineer S. K. Ginzburg on criteria of durability and investigations of softening of electrodes during welding; engineer I. S. Fedorov, on the production and use of electrodes at the Gor'kiy Automobile Plant; engineer Ye. F. Trekin, Uralvagonzavod, on results of testing the durability of electrode alloys on spot and seam welding machines; engineer A. I. Vlasov on the development of high-strength and electro-conductive cermet alloys at the Moskovskiy institut tverdykh splavov (Moscow Institute of Hard Alloys); engineer N. N. Postnikov, Candidate of Technical

Card 2/3

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

S/135/61/000/003/014/014
A006/A001

Conference on the Production of Electrodes for Resistance Welding Machines

Sciences D. G. Butumo, engineer V. L. Bereslavskiy and others delivered a number of brief reports. The Conference decided to speed up the organization of a centralized production of electrodes, and to use MTs-5B, MTs-2 and Br.Kh alloys in heat treated state for electrodes of resistance welding machines.

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.A., inzh.

Conference on the manufacture of electrodes for resistance welding machines. Svar.proizv. no.5:46 My '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N. A.

ZHURAVLEVA, N. A. -- "Synthesis and Polymerization of Pure Allyl Esters." Sub 31 Dec 52, Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev (Dissertation for the Degree of Candidate in Technical Sciences)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.A.

135-58-6-11/19

AUTHORS: Sliozberg, S.K., Candidate of Technical Sciences; and Zhuravleva, N.A., Engineer

TITLE: Flash Butt Welding of Brass (Stykovaya svarka oplavleniyem latuni)

PERIODICAL: Svarochnoye Proizvodstvo, 1958, Nr 6, pp 33-34 (USSR)

ABSTRACT: The article presents results of experimental studies carried out at VNIIESO. The developed welding technology for brasses "L62" and "LS59-1" is given in detail. Microstructure of the two brass grades in and at the welded joints is described and illustrated. This process is recommended for practical use. G.Ya. Filimonov of the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute) participated in developing the welding technology for "LS59-1" brass. There are 7 photographs and 1 chart.

ASSOCIATION: VNIIESO

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N. I. (Tomsk)

Vascular glomus (Barre-Masson) tumor. Klin. med. no.9:134-135 '61. (MIRA 15:6)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. B. A. Al'bitskiy) Tomskogo meditsinskogo instituta.

(HAND--TUMORS)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.A., inzh.

Sixteenth Leningrad conference of welders on the results of welding research and operations. Svar. proiz. no.8: 45 Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.T.

OVCHINNIKOV, B.N.; VERESHCHAGIN, A.N.; ZHURAVLEVA, N.T.

[Combatting corrosion in refining sulfurous petroleum] Bor'ba s korroziei pri pererabotke sernistoi nefti. Moskva, Gos.nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 75 p. (MLRA 7:3)

(Corrosion and anticorrosives) (Petroleum--Refining)

Evaluation B-82076, 17 Jan 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

TOMING-REYNTAM, Y.M. [Toming-Reintam, O.], kand.med.nauk; ZHURAVLEVA, N.G.

Protistocid properties of bee honey collected from various flowers and the treatment of trichomonal colpitis. Akush. i gin. no.5: 106-108 '61. (MIRA 15:1)

1. Iz vrachebno-sanitarnoy sluzhby (nach. M.A. Ugol'nikova) Estonskoy zheleznoy dorogi, Tallin.
(TRICHOMONIASIS) (HONEY--THERAPEUTIC USE)
(VAGINA--DISEASES)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.I.

Experience in the use of peridural anesthesia. Khirurgiia 39 no.7:93-99 Jl'63 (MIRA 16:12)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. B.A. Al'bitskiy Tomskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.I.

Peridural anesthesia in association with neuroplegia. Vest.khir. 86 no.3:90-94 Mr '61. (MIRA 14:3)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - dotsent B.A. Al'bitskiy) Tomskogo meditsinskogo instituta.
(SPINAL ANESTHESIA) (ARTIFICIAL HIBERNATION)
(ABDOMEN—SURGERY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ROZENFEL'D, D.B.; GOLUBINSKAYA, K.P.; ZHURAVLEVA, N.M.; SEMENOVA, I.P.; RYURIKOVA, L.N.; GUL'DYASHEVA, T.A.

Rapid laboratory diagnosis of colienteritis with the use of TTC bouillon. Lab. delo 10 no.4:234-236 '64. (MIRA 17:5)

1. Sanitarno-bakteriologicheskiye laboratorii sanitarno-epidemiologicheskikh stantsiy Podol'ska, Noginska, Klina, Zagorska, Pushkino Moskovskoy oblasti.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N.V.

Sputum microflora of patients with chronic pneumonia and its resistance to antibiotics. Antibiotiki 9 no.3:280-283 Mr '64.

(MIRA 17:12)

1. Leningradskiy nauchno-issledovatel'skiy institut antibiotikov.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZEMSKOV, M.V.; IGNAT'YEVA, S.A.; MOROZOVA, V.P.; STEPANOV, I.I.; ZHURAVLEVA, N.V.

Yeast-induced production of antibodies, resistance and plasmoblastic reaction in animals. Zhur.mikrobiol., epid. i immun. 42 no.3:130-133 Mr '61. (MIRA 18:6)

1. Voronezhskiy meditsinskiy institut.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020019-6

ZHURAVLEVA, N. V.

"Antagonism as a Factor in the Mutability of Microorganisms." Cand Med Sci, Gor'kiy Medical Inst, Gorkiy, 1954. (RZhBiol, No 2, Jan 55)

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

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SOKOLOV, B.V.; ZHURAVLEVA, N.V.

Method for verifying the antiviral activity of culture liquids; preliminary report. Eksp. i klin. issl. po antibiot. 1:127-130 '58. (MIRA 15:5)

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(INFLUENZA--MICROBIOLOGY)

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ZHURAVLEVA, N.V.

Preservation of the virulence of Hemophilus pertussis in laboratory conditions. Eksp. i klin. issl. po antibiot. 1:154-162 '58. (MIRA 15:5)

(HEMOPHILUS PERTUSSIS)

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KOKUSHINA, T.M.; SHTEYNLUKHT, L.A.; ZHURAVLEVA, N.V.

Some immunological changes in pyodermatites during antibiotic treatment. Eksp. i klin. issl. po antibiot. 2:69-75 '60. (MIRA 15:5)

(SKIN--DISEASES) (ANTIBIOTICS) (IMMUNOHEMATOLOGY)

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ZEMSKOV, M.V.; ZHURAVLEVA, N.V.

Mechanism of the stimulation of antibody formation, immunogenesis and resistance to infection by means of bloodletting. Zhur. mikrobiol., epid. i immun. 42 no.10:134 O '65. (MIRA 18:11)

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ZHURAVLEVA, P.A.; SAPOZHNIKOVA, S.A., doktor geograficheskikh nauk, redaktor; ORLOVA, V.P., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor.

["Hydrometeorology" pavilion; guidebook] Pavil'on Gidrometsluzhba; putevoditel'. Moskva, Gos.izd-vo sel'skokhoz.litpry, 1955. 32 p. (MLRA 8:8)

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