"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHAN, V.A., doktor biolog.nauk

Fishes in rivers and lakes. Nauka i zhyttia 10 no. 10:31-33 O '60. (MIRA 14:4)

1. Chlen-korrespondent AN USSR.
(Fishes, Fresh-water)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHAN, V.A.

Effect of breeding on changes in certain characteristics of carp. Agrobiologiia no.2:217-221 Mr-Ap '61. (MIRA 14:3)

1. Institut gidrobiologii Akademii nauk USSR, Kiyev. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina.
(Carp breeding)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

YEMCHENKO, A.I. , otv. red.; TOPACHEVSKIY, O.V. [Topachevs'kyi, O.V.], doktor biol. nauk, glav. red.; ROLL, Ya.V., red.[deceased]; MOVCHAN, V.A., red.; VLADIMIROV, V.I.[Vladymyrov, V.I.], doktor biol. nauk, red.; VINOGRADOV, K.O.[Vynohradov, K.O.], doktor biol. nauk, red.; TSEYEB, Ya.Ya. doktor biol. nauk, red.; SAL'NIKOV, M.Ye [Sal'nykov, M.IE.], kand. biol. nauk, red.; ALMAZOV, O.M., kand. khim. nauk, red.; ZEROV, K.K., kand. biol. nauk, red.

[Some problems of the physiology of digestion and metabolism in fishes] Deiaki pytannia fiziologii tavlennia ta obminu rechovyn u ryb. Kyiv, Vyd-vo AN URSR, 1962. 115 p. (Its Pratsi) (MIRA 17:11)

1. Chlen-korrespondent AN Ukr.SSR (for Yemchenko, Roll, Movchan).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

TOPACHEVSKIY, O.V.[Topachevs'kyi, O.V.], glav. red.; MOVCHAN, V.A., red.; ALMAZOV, O.M., doktor geol. nauk, red.; VLADIMIROV, V.I.[Vladymyrov, V.I., doktor biol. nauk, red.; VINOGRADOV, K.O.[Vynohradov, K.O.], doktor biol. nauk, red.; TSEYEB, Ya.Ya.[TSeeb, IA.IA.], doktor biol. nauk, red.; SAL'NIKOV, M.Ye.[Sal'nykov, M.IE.], kand. biol. nauk, red.; ZEROV, K.K., kand. biol. nauk, red

[Desna River within the boundaries of the Ukraine; sanitary-hydrobiological and hydrochemical characteristics] Desna v mezhakh Ukrainy; sanitarno-hidrobiologichna ta hidrokhimichna kharakterystyka. Kyiv, Vyd-vo "Naukova dumka," 1964. 158 p. (MIRA 17:7)

1. Akademiya nauk URSR. Kiev. Instytut hydrobiologii. 2. Chlen-korrespondent AN Ukr.SSR (for Topachevskiy). 3. Vsesoyuznya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina i chlen-korrespondent AN Ukr.SSR (for Movchan).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

Movchan, V. G.

KLIMCHENKO, I.Z.; LISITSYN, A.A.; MOVCHAN, V.G.

Dynamics of the suslik population in previously disinfested areas. Trudy probl.i tem.sov. no.5:39-44 '55. (MIRA 8:12)

1. Rostovskiy protivochumnyy institut.
(Susliks)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

L 16933-63 EWP(q)/EWT(m)/BDS AFFTC JD/JG
S/185/63/008/004/014/015

58

AUTHOR: Movchan, Ye. O., Bondar, M. M.

TITLE: Certain properties of germanium doped with La, Pr and Nd

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 4, April 1963, 496-497

TEXT: Experimental results show that La, Pr, and Nd are donon impurities in Ge. The ionization energy of these impurities is small which confirms the stability of the concentration of current carriers in 77-300°K range as well as the identical order of the value τ of the doped and initial materials. The solubility of these elements in Ge is approximated at 3 x 1015 atoms/cm^3 while their segregation factor is k $\gg$ 1 x 10^{-5}.

ASSOCIATION: Instytut napivprovidnykiv AN URSR (Institute of Semiconductors, Ukrainian Academy of Sciences, Kiev)

SUBMITTED: Oct 11, 1962

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHAN, Ye.A. [Movchan, IE.O.]; MISELYUK, Ye.G. [Miseliuk, O.H.]

Inversions of the sign of the Hall coefficient in tellurium.
Ukr. fiz. zhur. 8 no.10:1174-1176 O '63. (MIRA 17:1)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHAN, Yu.V.

Age changes in the morphological characters of the Lenuce sturgeon (Acipenser stellatus [illegible]). Dop. AN URSR no.10: 1388-1390 '64. (MIRA 17:12)

1. Institut zoologii AN Ukr. SSR. Predstavlano akademikom AN UkrSSR A.P. Markevichem [Markevych, O.P.].

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHANOVA, Lyubov' Konstantinovna; USHEROVA, Yekaterina Andreyevna

[Home care for patients with internal diseases] Ukhod za bol'nymi na domu pri zabolevaniiakh vnutrennikh organov. Leningrad, Medgiz, 1959. 31 p. (MIRA 13:9)
(MEDICINE, INTERNAL) (HOME NURSING)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHANOVA, Lyubov' Konstantinovna; USHEROVA, Yekaterina Andreyevna; OGLY, I.A., red.; LEBEDEVA, G.T., tekhn. red.

[Home care of patients suffering from diseases of internal organs]Ukhod za bol'nymi na domu pri zabolevaniiakh vnutrennykh organov. 2., izd. Leningrad, Medgiz, 1963. 31 p. (MIRA 16:3)

(VISCERA—DISEASES) (HOME NURSING)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHANYUK, L.A. (Aleksin, Tul'skoy oblasti, Pionerskaya ul., d.15)

Avulsion of the gallbladder, lesions of the liver, and the small and large intestine in closed injury. Vest. Khir. 91 no.10:112-113 O '63. (MIRA 17:7)

1. Iz Aleksinskoy gorodskoy bol'nitsy (glavnyy vrach - M.G. Girsoh).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

BLAZHCHUK, Viktor Martynovich; MOVCHEVKO, I.I., inzhener, retsenzent; LEUTA, V.I., inzhener, redaktor; RUDNITSKIY, Ya.V., tekhn. redaktor

[Sampling of free motion in assemblies and kinematic connections in machine construction] Vyborka mertvogo khoda v uzlakh i kinematicheskikh soedineniiakh v priborostroenii. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956 53 p. (MLRA 9:7)

(Machinery--Construction)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVCHENKO, V.I., student 5 kursu.

A copepod species new to Kiev Province. Stud.nauki.pratsi no.20: 63-66 '56. (MLRA 9:12)

1. Naukoviy kerivnik - chlen-korrespondent Akademii nauk URSR, professor Markevich.
(Kiev Province--Copepoda)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

GUSEV, Yu. (Moskva); LOBACHEV Yu. (Kaluga); MOVCHIKOV, N. (Tambov); BERMES, N. (Baku); KUCHIS, Ye. (Vil'nyus); LAMEKIN, V. (Riga); NOGIN, S. (Sevastopol'); UL'YANENKO, N. (Murmanskaya obl.); ZEL'DIN, Ye. (Leningrad); CHIBIRYACHKO, V. (Severomorsk); SIMONOV, V. (Orel); ZHBANOV, Ye. (Ivanovo); VOTLOKHIN, B. (Groznyy); MAKASHEV, M. (Leningrad); MAMEDOV, V. (Balashov); GORDOV, V. (Yevpatoriya); LYAMETS, V. (Severodonetsk).

Exchange of experience. Radio no.3:31,37,44,51,53,54,55,56,58,61 Mr'64 (MIRA 17:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVENKO, Ivan Maksimovich, brigadir shtampovshchikov, rukovoditel' brigady kommunisticheskogo truda; KARDASH, G.I., red.; SHEVCHENKO, M.G., tekhn. red.

[In my brigade] V moei brigade. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1961. 15 p. (MIRA 15:1)

1. Khar'kovskiy traktornyy zavod (for Movenko).
(Kharkov--Tractor industry) (Socialist competition)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

1. MOVENKO, V., TSIPKO, Ye.

2. USSR (600)

4. Machine-Tractor Stations-Accounting

7. Accounting on a commercial basis in the tractor brigade. Khlopkovodstov no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, Mircea; MOVILEANU, A.

Chemistry, distribution, and economic role of the carbonate rocks of northern Dobruja. Studii chimie Iasi 10 no.1:89-111 '59.
(EEAI 9:5)

1. Filiala Iasi a Academiei Republicii Populare Romine.
(Dobruha--Rocks) (Carbonates)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, Mircea, prof.; MOVILEANU, A.

The Clarke distribution of manganese in the Triassic limestone of northern Dobruja. Studii chemie Iasi 10 no.2:207-227 '59.
(EEAI 10:1)

1. Academia Republicii Polulare Romine, Filiala Iasi; Institutul de Chimie "Petru Poni." 2. Membru correspondent al Academiei Republicii Populare Romine. Membru, Comitetul de redactie, Studii si cercetari stiintifice, Chimie (for Savul)
(Dobruja--Manganese) (Limestone)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, M., prof.; MOVILEANU, Aurelia

Copper, zinc, and lead as trace elements in the Triassic carbonate rocks of northern Dobruja. Studii chim Iasi 11 no.1:27-41 '60. (EEAI 10:3)

1. Membru corespondent al Academiei Republicii Populare Romine, Comitetul de redactie, Studii si cercetari stiintifice, Chimie, Filiala Iasi (for Savul)

(Dobruja--Rocks) (Trace elements) (Carbonates)
(Copper) (Zinc) (Lead)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, M., prof.; ABABEI, V.; BOTEZ, C.; MOVILEANU, A.

Studies on the regularity of geochemical distribution in certain elements and minerals in Rumania. Studii chim Iasi 11 no.2:205-225 '60.

1. Academia Republicii Populare Romine, Filiala Iasi, Institutul de chimie "Petru Poni." 2. Comitetul de redactie, "Studii si cercetari stiintifice, chimie" (Academia Republicii Populare Romine, Filiala Iasi); membru corespondent al Academiei Republicii Populare Romine (for Savul).

(Trace elements) (Minerals)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, M.; ABABEY, V. [Ababei, V.]; BOTEZ, K. [Botez, C.]; MOVILYANU, A. [Movileanu, A.]

Characteristics of the geochemical distribution of certain elements and minerals in Rumania. Rev chimie 6 no.1:95-114 '61.

1. Institut khimii imeni "P. Poni", Yasskiy filial Akademii RNR.
2. Chlen-korrespondent Akademii RNR (for Savul).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, Mircea, prof.; VILEANU, Aurelia

Cobalt and nickel as trace elements in the carbonate Triassic rocks of Northern Dobruja. Studii chim Iasi 12 no.1:45-68 '61.

1. Academia R.P.R., Filiala Iasi, Institutul de chimie "P.Poni."
2. Membru corespondent al Academiei R.P.R. si Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Chimie" -Filiala Iasi- (for Savul).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, M., acad.; MOVILEANU, A.; DONOS, M.; DONOS, I.

Chemism, distribution, and economic role of Cretaceous carbonate rocks in Dobruja. Pt. 1. Studii cerc geol 8 no.1:79-100 '63.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

SAVUL, M., acad. (deceased); MOVILEANU, A.; DONOS, I.; DONOS, M.

Chemism, distributions, and economic role of the Cretaceous carbonate rocks in southern Dobruja. Pt.3. Studii cerc. geol. geof. geogr. 9 no.2:399-415 '64.

1. Pedagogic Institute, Iasi. Submitted June [illegible].

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

S/137/62/000/003/050/191
A006/A101

AUTHORS: Movlanov, Sh., Kuliyev, A. A.

TITLE: On the coefficient of mercury distribution during tellurium crystallization

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 25 - 26, abstract 3G166 (Izv. AN AzerbSSR, Ser. fiz.-matem. i tekhn. n", 1961, no. 3, 55 - 62, Azerb. summary)

TEXT: The authors studied zonal recrystallization of Te with Hg admixture. The effective coefficient of Hg distribution in Te was calculated (with the aid of radioactive isotope Hg^{203}) at different rates (16, 11 and 2 mm/hour) of molten zone shift. The equilibrium coefficient of Hg distribution in Te is equal to 0.11. It is shown that in zonal recrystallization the Hg content in Te is reduced by over 100 times after three passes. The effectiveness of Te refining from Hg increases when zonal recrystallization is carried out in a flow of H_2. There are 15 references.

G. Svodtseva

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVLANOV, Sh.; KULIYEV, A.A.

Diffusion of selenium and mercury in liquid tellurium. Izv.AN Azerb.SSR.Ser.fiz.-mat.i tekh.nauk no.6:49-55 '61. (MIRA 15:4)
(Diffusion)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

S/137/61/000/012/073/149
A006/A101

AUTHORS: Movlanov, Sh., Kuliyev, A.A.

TITLE: The factor of tin distribution in antimony selenide

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 52-53, abstract 120370 (Dokl. AN AzerbSSR, 1961, v. 17, no. 4, 275-278, Azerb. summary)

TEXT: The method of radioactive isotopes was employed to determine the factor of Sn-distribution in Sb_2Se_3. A Sn^{113} radioactive isotope was employed. Sb_2Se_3 specimens were synthesized in a stoichiometric ratio from initial Sb (99.996%) and Se (99.994%) in ampoules which were preliminarily evacuated to 10^{-4} mm Hg. The ampoule was slowly heated to 900°C with a 2-hour interruption at 250°C and a 3-hour one at 650°C. The ampoule was held for 13 - 16 hours at 900°C and then cooled to room temperature at a rate of 100 degrees/hour. The ingots obtained were subjected to 10-fold zonal refining in N_2 atmosphere; the electric conductivity of the specimens changed from about 10^{-5} to $\sim 10^{-7}$ ohm^{-1} cm^{-1}. The zonal refined Sb_2Se_3 was alloyed with 0.004% Sn^{113} at 700°C for 35 hours; the uniformity of Sn distribution over the specimen was checked and then

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zonal recrystallization was performed with up to 10 passes. The temperature in the zone was 670°C. To determine Sn^{113} in the specimen perpendicularly to the ingot axis 200 - 300 μ thick layers were taken off and the intensity of radiation in these layers was determined. The factor of Sn distribution in Sb_2Se_3 was 0.8. The effective Sn diffusion factor in liquid Sb_2Se_3 $D = 1.56 \cdot 10^{-5}$ cm^2/sec. It is shown that refining of Sb_2Se_3 from Sn was relatively difficult. The lower the concentration of admixtures in Sb_2Se_3, the lesser effective its zonal refining.

B. Turovskiy

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVLANOV, Sh.; ABDULLAYEV, G.B.; BASHSHALIYEV, A.; KULIYEV, A.; KERIMOV, I.

Some properties of antimony telluride single crystals. Dokl. An. Azerb. SSR 17 no.5:375-379 '61. (MIRA 14:6)

1. Institut fiziki, sektor fiziki i matematiki Akademii nauk Tadzhikskoy SSR.
(Antimony telluride)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

S/180/62/000/001/004/014
E193/E383

18.3100

AUTHORS: Kuliyev, A.A. and Movlanov, Sh. (Baku)

TITLE: Coefficient of distribution of selenium during solidification

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Metallurgiya i toplivo, no. 1, 1962, 76 - 80

TEXT: The object of the present investigation was to determine the equilibrium distribution coefficient of Se in Te, this information being necessary for successful purification of Te by zone-refining. The experiments were conducted on technical-grade Te, which was first purified by distillation in pure hydrogen, repeated 10 - 12 times, i.e. until no residue was left after the distillation process. It was found that by this means the concentration of both volatile impurities (Se, S, etc.) and those with a low vapour pressure (tellurides, selenides and oxides of various elements) was substantially reduced. Te was zone-refined in evacuated quartz ampules after

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this preliminary treatment. The purity of the metal after 10 passes was determined from the ratio of its electrical resistivities at room temperature and at liquid-nitrogen temperature.

It was established in this way that zone-refined Te contained no more than $10^{15}/cm^3$ electroactive impurities. This material was used in the final experiment, in which the distribution coefficient for Se and Te was determined by the radioactive tracer (Se^{75}) technique. Uniform distribution of Se in the starting material was ensured by prolonged heating at a temperature above the melting point of Te. To avoid losses of Se (whose vapour pressure is much higher than that of Te) during zone-refining, this operation was carried out in a vertical furnace, the molten zone travelling in the upwards direction. Distribution of impurities in a zone-refined ingot after one pass is described by the equation:

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$$\frac{C(x)}{C_o} = 1 - (1 - k_+) \exp \left(-k_+ \frac{x}{l} \right) \qquad (1)$$

where l denotes the length of the molten zone,
x its distance from the starting end of the ingot,
C_o the initial concentration of impurities and
$C(x)$ the concentration of impurities at a distance x from the starting end of the ingot after zone-refining.

Since it follows from Eq. (1) that the relationship:

$$\ln \left[\frac{C_o - C(x)}{C_o} \right] = f(x/l)$$

is linear, the point of intersection of this line with the ordinate

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

axis gives a value of the distribution coefficient $k_{\perp}$ corresponding to a given rate v of travel of the molten zone. It was found by this method that the equilibrium distribution coefficient for Se in Te was 0.34. The thickness of the diffusion layer in the molten zone was found to be 0.46 mm. The effective diffusion coefficient for Se in Te was found to vary between 10^{-5} and 10^{-3} cm^2/sec, depending on the conditions during solidification. The results of other experiments are reproduced graphically. In Fig. 5, C/C_o is plotted against x/ℓ, curves 1 and 2 relating to values of C/C_o obtained after 1 and 2 passes, respectively. It was seen that the concentration of Se in Te after 2 passes amounted to 10^{-4}% and was ten times less than the initial value. Finally, it was established that the effectiveness of zone-refining can be improved by conducting it in hydrogen. This is demonstrated in Fig. 6, where the C/C_o ratio is plotted against ℓ (mm), curves 1 and 2 relating,

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

respectively, to results obtained for material refined in evacuated ampules and in hydrogen. This effect is probably due to agitating action of the hydrogen stream, volatilization of Se and formation of hydrogen selenide.
There are 5 figures.

ASSOCIATION: Institut fiziki AN Azerbaydzhanskoy SSR (Institute of Physics of the AS Azerbaydzhan SSR)

SUBMITTED: May 26, 1961

Fig.5:

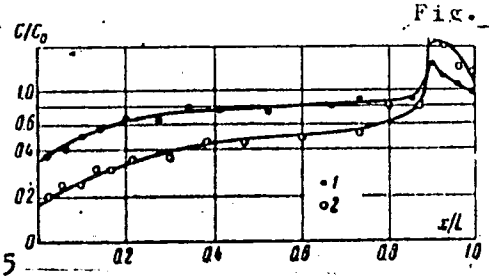
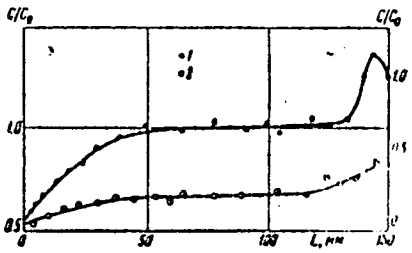


Fig. 6:



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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

S/181/62/004/[illegible]
B102/B138

AUTHORS: Movlanov, Sh., and Kaliyev, [illegible]

TITLE: Investigation of the diffusion of selenium and mercury in solid and liquid tellurium

PERIODICAL: Fizika tverdogo tela, v. 4, no. [illegible], 1962, [illegible]

TEXT: The tracer method was used to determine the diffusion coefficients of Se (Se^{75}) and Hg (Hg^{203}) in solid and liquid Te. In the first case polycrystalline Te with a concentration of charged impurities of $\sim 10^{15}$ cm^{-3} was heat treated in a vacuum (420°C, 27 hr) and put in an ampoule (10^{-4} mm Hg) with the Se or Hg. Se diffusion was studied between [illegible] and 440°C, Hg diffusion between 270 and 440°C. The following results were obtained: $D_{Se} = 2.6 \cdot 10^{-2} \exp(-[illegible]/RT)$ cm^2/sec;

Card 1/3

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S/181/62/004/[illegible]
B102/B138

Investigation of the diffusion of [illegible]

D_{Hg} = 3.4 10^{-3} exp(-18,700/RT) cm^2/sec. Se and Hg diffusion in liquid [illegible] [illegible] by the capillary method (Ref. [illegible], see below). To avoid [illegible] capillaries of not more than 0.7 - 0.8 mm diameter were used. For [illegible] measurements with Hg an Hg-Te master alloy was made and the Hg [illegible] was diffused into it. The measurements were carried out in the range [illegible] $^{\circ}C$. Results: D_{Se} = [illegible] 10^{-3} exp(-5700/RT) cm^2/sec;

D_{Hg} = 2.7 10^{-3} exp(-5200/RT) cm^2/sec. The low activation heat of Se and Hg in liquid Te agrees with the Theory of Ya. I. Frenkel' (Vvedeniye v teoriyu metallov - Introduction to the theory of metals - Fizmatgiz [illegible] 1958). The temperature dependence of D shows a jump at the melting point; the diffusion coefficients of Se and Hg in liquid Te are increased by a factor of $\sim 10^6$ in this point, as compared with those in solid Te. Professor G. B. Abdullayev, Corresponding Member of the AS Azerbaydzhanskaya SSR is thanked for discussions. There are [illegible] figures and 7 references, 4 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: D. W. Morgan a. I. H. Kirchener, Trans. Far. Soc. 50, [illegible], 1954; R. E. Eckert, H. G. [illegible]

Card 2/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

Investigation of the diffusion of ... S/181/62/004/002/038/0[illegible]
B102/B138

T. Chem. Phys. 20, 13, 1952.

ASSOCIATION Institut fiziki AN Az. SSR Baku (Institute of Physics AS Azerbaydzhanskaya SSR, Baku)

SUBMITTED: July 31, 1961 (initially) October 30, 1961 (after revision)

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

L 16697-65 EPA(s)-2/EWT(m)/EWP(t)/EWP(b) Pt-10 IJP(c)/ESD(gs)/SSD/
AFWL/ASD(a)-5/AS(mp)-2/AFETR RDW/JD/JG

ACCESSION NR: AR5000800 S/0058/64/000/010/E052/E052

SOURCE: Ref. zh. Fizika, Abs. 10E415

AUTHORS: Abdullayev, G. B.; Movlanov, Sh.; Shakhtakhtinskiy, M. G.; Kuliyev, A. A.

TITLE: Investigation of the solubility of selenium and mercury in solid tellurium and their influence on the electric properties of tellurium

CITED SOURCE: Izv. AN TadzhSSR. Otd. geol.-khim. i tekhn. n., no. 2(11), 1963, 13-22

TOPIC TAGS: tellurium, alloying, solubility, electric conductivity, Hall constant, carrier mobility

TRANSLATION: The solubility of Se in solid Te was determined by the diffusion method in the interval 320--440C; with decreasing temperature, the solubility increases first linearly and then more slowly, reaching 0.1 (atomic fraction) of the Se in the solution at 580K. The solubility in Te first increases with increasing temperature, reaches a

Card 1/2

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L 16697-65
ACCESSION NR: AR5000800

maximum at 370C (4×10^{20} cm^{-3}), and then drops to 10^{20} cm^{-3} at 440C. The electric conductivity (σ) and the Hall constant of samples of pure Te and Te-Se and Te-Hg alloys were measured as functions of the temperature (from - 190 to 170C) and composition in the interval of Se and Hg concentrations (K_{Se} and K_{Hg}) of 0 -- 1 wt.%). As K_{Se} is increased to 0.2 wt.%, the values of σ and of the hole mobility u_p in the samples increase to 68 ohm^{-1} cm^{-1} and 3,630 cm^2/V-sec, respectively, and then decrease to 0.44 ohm^{-1} cm^{-1} and 240 cm^2/V-sec (K_{Se} = 1 wt.%), respectively. At considerable values of K_{Hg}, the σ of the alloys increases, reaching 7.5 ohm^{-1} cm^{-1} at K_{Hg} = 1 wt.%. For low K_{Hg} = 10^{-3} -- 5×10^{-3} wt.%, the σ of the samples is close to that of pure Te. When K_{Hg} increases to 10.%, u_p first decreases monotonically (from 980 cm^2/V-sec) and then increases, reaching a maximum (580 cm^2/V-sec) at K_{Hg} = 0.1 wt.% (all the data are for a temperature of 77). At higher temperatures, the laws governing the variation of the electric properties of the alloys are in general analogous. A. Zhdan.

SUB CODE: SS, EM ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVLANOV, Sh.; KULIYEV, A.A.

Determining the coefficient of selenium distribution in tellurium. Trudy Inst. fiz. AN Azerb. SSR 11:36-41 '63. (MIRA 16:4)
(Selenium) (Tellurium)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

ACCESSION NR: AR4041540 S/0137/64/000/004/I001/I001

SOURCE: Ref. zh. Metallurgiya, Abs. 4I2

AUTHOR: Abdullayev, G. B.; Movlanov, Sh.; Shakhtakhtinskiy, M. G.; Kuliyev, A. A.

TITLE: Investigation of solubility of selenium and mercury in solid tellurium and their influence on electrical properties of tellurium

CITED SOURCE: Izv. AN TadzhSSR. Otd. geol.-khim. i tekhn. n., no. 2 (11), 1963, 13-22

TOPIC TAGS: selenium, mercury, tellurium, solubility, electrical property, retrogradation, electrical conductivity

TRANSLATION: Studies solubility of Se in Te (in interval 320-400°) and Hg in Te (in intervals 270-440°). Solubility of Hg in Te increases with increase of temperature and attains maximum (4.10^{20} atoms per cubic centimeter) at 370°

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

ACCESSION NR: AR4041540

and then drops, and at 440° becomes equal to 1.10^{20} atoms per cubic centimeter. Solubility of Se in Te is greater than solubility of Hg in Te. In temperature dependence of solubility of Hg in Te there is observed retrogradation, which is absent in the system Te--Se. There are measured electrical conductivity of alloys Te-Se and Te-Hg in interval from -190° to -150° and the Hall effect at liquid nitrogen and room temperatures. It is found that Hg with a content of ~1% significantly increases electrical conductivity of Te, and Se almost does not change it. Bibliography: 24 references.

SUB CODE: IC, GC ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVLAZADE, N.S.

Fresh-water elements in the Sarmatian fauna on Molladag in the Kura and Kori interfluve (western Azerbaijan). Izv. AN Azerb. SSR. Ser. geol.-geog. nauk no.1:11-17 '64. (MIRA 18:6)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVLETDINOV, I. S.

5
4E2L (j)
2 May

15 15

Chemically resistant paint. G. A. Baroyanta, I. S. Movletdinov, and N. A. Eremin. U.S.S.R. 107,064, Aug. 25, 1957. Damaged enamel is repaired with a paste made by mixing a toluene soln. of polyisobutylene with liquid Na silicate and adding to it powd. diabase and Na fluosilicate.

M. Hosch 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVLIK, I. Ye.

3

Centrifugal separators for concentration of first-carbonation juice. V. A. Zambrovskii, I. E. Movlik, and G. A. Saburdo. *Sakharnaya Prom.* 30, No. 1, 14-10(1956).—At present the juices from the first carbonation are settled in continuous clarifiers. Approx. 25% by vol. of the settlings is filtered on a revolving vacuum filter. This lengthy procedure can be shortened by using a centrifugal separator, construction of which is described. These separators are satisfactory in sepn. of unfiltered carbonation juices, and one separator can process 12 cu. m. of juice/hr., producing mud of 20-30° Brix. However, clarified juice from centrifugal separators contained 0.40% of turbidity on the wt. of juice in comparison with 0.33% from continuous clarifiers. This increased turbidity reduces filterability of juices. The juices from centrifugal separators do not show increased color or loss of heat. The av. cycle of centrifugal separator is 8 hrs., while 2 hrs. is required for cleaning and reassembling by two men. Therefore, 25% more capacity in the centrifugal separator is required. For a battery of 9 centrifugal separators three men per shift are needed. At present centrifugal separators cannot compete with continuous clarifiers, but further research work is in progress.

V. E. Baikow

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

PRIKHOD'KO, P.M.; MOVLYAN, G.A.

K-200 machine for welding the "Zaporozhets" automobile shock absorber housing to its lid. Avtom.svar. 14 no.7:88-89 Jl '61. (MIRA 14:7)

(Automobiles--Welding) (Electric welding--Equipment and supplies)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

ACC NR: AP7001398 (A) SOURCE CODE: UR/0413/66/000/021/0074/0074

INVENTOR: Lebedev, V. K.; Yavorskiy, Yu. D.; Shcheglov, V. D.; Lozovskiy, V. P.; Movlyan, G. A.

ORG: none

TITLE: A method of spot or seam welding of laminated structures. Class 21, No. 187899 [announced by the Electric Welding Institute im. Ye. O. Paton (Institut electrosvarki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 74

TOPIC TAGS: laminated metal structure, honeycomb structure, structure spot welding, structure seam welding, laminated material, spot welding

ABSTRACT: This Author Certificate introduces a method of spot or seam welding laminated, predominantly honeycomb, structures with the use of a current-conducting

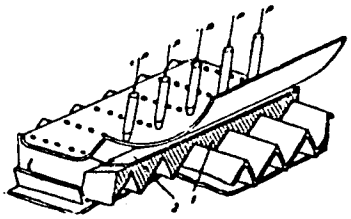

Fig. 1. Spots welding method

1 - Insert; 2 - insulation.

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ACC NR: AP7001398

insert between the elements being welded. To improve the weld quality, the welding current is fed to only one element being welded (see Fig. 1), and the insert in the form of a comb is insulated from this element and is shifted as the welding of the elements progresses. Orig. art. has: 1 figure. [MS]

SUB CODE: 13/ SUBM DATE: 10Sep65/ ATD PRESS: 5110

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

BERMAN, Sh.M.; YAN'SHINA, A.P.; ANTONOV, G.I.; PLOSHCHENKO, Ye.A.; SHAKHOV, N.A.; MOVLYAVA, A.P.

Testing non-fired forsterite brick in the checkered brickwork of air regenerators of 500-ton open-hearth furnaces. Ogneupory 26 no.6:272-273 '61. (MIRA 14:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Berman, Yan'shina, Antonov). 2. Alchevskiy metallurgicheskiy zavod (for Ploshchenko, Shakhov, Movlyava).
(Forsterite) (Open-hearth furnaces)

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

06258
SOV/107-59-6-22/50

6(

AUTHORS: Semenov, A., Manager, Bayshev, K., Chairman, Movlyutov, S., Club Member

TITLE: We Will Strive for the Championship

PERIODICAL: Radio, 1959, Nr 6, p 17 (USSR)

ABSTRACT: The authors tell some events of the All-Union outdoor radio amateur contest in 1958, in which the teams of the Ufa Radio Club obtained the first three places. Presently, the Bashkirian radio amateurs are preparing themselves for the fourth All-Union outdoor contest.

ASSOCIATION: Ufimskiy radioklub (Ufa Radio Club).

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVMYGA, G.T.

Recovery factors of the 16th and 22nd layers in the Octover oil field (Northern Caucasus). Izv. vys. ucheb. zav.; neft' i gaz no.2:69-74 '58. (MIRA 11:8)

1. Groznenskiy neftyanoy institut.
(Caucasus, Northern--Petroleum engineering)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVMYGA, G.T.

Effect of the number of production wells on oil recovery. Geol. nefti i gaza 3 no.5:39-44 My '59. (MIRA 12:7)

1. Groznenskiy neftyanoy institut.
(Oil fields--Production methods)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVMYGA, G.T.

Problem of water-free oil recovery from water drive pools.
Izv. vys. ucheb. zav.; neft' i gaz 3 no.12:59-64 '60.(MIRA 14:10)

1. Groznenskiy neftyanoy institut.
(Oil fields--Production methods)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVMYGA, G. T. Cand Geol-Min Sci -- "Petroleum ~~efficiency~~ coefficient of recovery and the effect of certain mining and geological factors upon ~~it~~ them during the displacement of petroleum ~~by~~ with water (According to the example of a number of petroleum deposits of Checheno-Ingushetiya)." Baku, 1961 (Committee of Higher and Secondary Specialized Education of the Council of Ministers AzSSR. Azerbaydzhan Order of Labor Red Banner Inst of Petroleum and Chemistry im M. Azizbekov). (KL, 4-61, 190)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVMYGA, G.T.

Oil recovery from water drive pools in the initial period of development. Izv. vys. ucheb. zav.; neft' i gaz 4 no.2:49-55 '61. (MIRA 15:5)

1. Groznenskiy neftyanoy institut.
(Oil reservoir engineering)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVMYGA, G.T.; REZNIKOV, A.N.

Estimating the fracturing of Upper Cretaceous limestones of some oil fields of eastern Ciscaucasia. Izv. vys. ucheb. zav.; neft' i gaz 5 no.1:41-44 '62. (MIRA 16:11)

1. Groznenskiy neftyanoy institut.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, M. S.

Applied mechanics Izd. 3., perer. i dop. Moskva, Goslesbumizdat, 1950. 540 p.
(52-23311)

TJ145.M6 1950

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, Mikhail Savel'yevich

Academic degree of Doctor of Technical Sciences, based on his defense, 26 June 1954, in the Council of the Leningrad Order of Lenin Forestry Engineering Academy imeni Kirov, of his dissertation entitled: "Rolling and track feeding in wood working machines. (Theory and Research)."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 17, 9 Jul 55, Byulleten' MVO SSR, No. 17, Sept 56, Moscow, pp 9-16, Uncl. JPRS/NY-435

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MITINSKIY, Arseniy Nikolayevich; MOVNIN, Mikhail Savel'yevich; TSAL, K.I., redaktor; ITSKOVICH, G.M., retsenzent; KONOROVICH, A.I., tekhn.red.

[Technical mechanics] Tekhnicheskaia mekhanika. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1955. 503 p. (MLRA 9:4)
(Mechanics, Applied)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, Mikhail Savel'yevich, prof., doktor tekhn. nauk; MANZHOS, F.M., prof., doktor tekhn. nauk, retsenzent; KONDRASHKIN, Ye.P., dots., red.; VARKOVETSKAYA, A.I., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Feeding machanisms of woodworking machinery] Podaiushchie mekhanizmy derevoobrabatyvaiushchikh stankov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 178 p. (MIRA 11:7)
(Woodworking machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

25(2) PHASE I BOOK EXPLOITATION SOV/1116

Movnin, Mikhail Savel'yevich

Teoreticheskaya mekhanika s elementami teorii mekhanizmov i mashin (Theoretical Mechanics With Elements of the Theory of Mechanisms and Machinery) Leningrad, Sudpromgiz, 1958. 288 p. 30,000 copies printed.

Scientific Ed.: Bozhenko, V.S.; Ed.: Lapin, V.I.; Tech. Ed.: Levochkina, L.I.

PURPOSE: This is a textbook approved by the Ministry of Higher Education of the USSR for students of tekhnikums which do not specialize in machine building or teach the elements of higher mathematics.

COVERAGE: This textbook for a course in theoretical mechanics discusses statics, kinematics, and dynamics and the theory of mechanisms and machines. It does not require a knowledge of higher mathematics. A.B. Izrayelit participated in writing

Card ~~1/15~~

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

Chapter 14 and Sections 11-13, 21, 24, 27, 28, 32, 37, 38, 64, 65, 70, 72, and 83. There are no references.

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2. Addition and substraction of vectors 12
3. Projection of a vector on an axis 15
4. Projection of a vector on a plane 19

Ch. 2. Basic Definitions and Principles of Statics 20
5. Basic concepts and definitions 20
6. Principles of statics 21
7. Links and their reaction forces 23

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

25(2) PHASE I BOOK EXPLOITATION SOV/1582

Movnin, Mikhail Savel'yevich

Detali mashin (Machine Parts) Leningrad, Sudpromgiz, 1958. 291 p. 35,000 copies printed.

Scientific Ed.: V. N. Gisin; Ed.: Ye. N. Shaurak; Tech. Ed.: L.I. Levochkina.

PURPOSE: This is a textbook for the course on "Machine Parts" given in tekhnikums (not specializing in machine building) where the elements of higher mathematics are not taught.

COVERAGE: This book is the third and final part of a course on "Engineering Mechanics" and is closely connected with the two preceding courses, "Theoretical Mechanics With Elements of Machine Part Theory", and "Strenght of Materials". The course "Machine Parts" is the theoretical basis of machine building and comprises three basic sections: 1) joints of machine parts 2) transmissions 3) shafts, axles, bearings, couplings, and clutches. No personalities are mentioned. There are no references.

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, M.S., doktor tekhn.nauk; GLEYZER, S.I., inzh.

Balancing rotating parts without using balancing machines.
Rum. prom. 33 no.8:4-6 Ag '58. (MIRA 11:10)
(Balancing of machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MITINSKIY, Arseniy Nikolayevich; MOVNIN, M.S. Prinimal uchastiye: IZRAYELIT, A.B., ITSKOVICH, G.M., inzh., nauchnyy red.; SHAURAK, Ye.N., red.; LEVOCHKINA, L.I., tekhn.red.

[Strength of materials] Soprotivlenie materialov. Podgotovleno k izdaniiu M.S.Movninym. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1959. 294 p. (MIRA 12:5)
(Strength of materials)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, Mikhail Savel'yevich; IZRAELIT, Aron Borisovich; MKHITAROV, G.M., inzh., retsenzent; LAUTNER, E.M., nauchnyy red.; SHAURAK, Ye.N., red.; KRYAKOVA, D.M., tekhn. red.

[Technical mechanics]Tekhnicheskaia mekhanika. Leningrad, Sudpromgiz. Pt.1.[Theoretical mechanics]Teoreticheskaia mekhanika. 1962. 355 p. (MIRA 16:3)
(Mechanics, Analytic)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

KOLCHIN, Nikolay Ioasafovich, prof., doktor tekhn. nauk, zasl. deyatel' nauki i tekhniki RSFSR; MOVNIN, Mikhail Savel'yevich, prof., RUDENKO, N.F., prof., doktor tekhn. nauk, retsenzent; RESHETOV, L.N., prof., doktor tekhn. nauk, retsenzent; SHAURAK, Ye.N., red.; SHISHKOVA, L.M., tekhn.red.

[Theory of mechanisms and machinery; construction and kinematics of mechanisms, dynamics of machinery and friction]Teoriia mekhanizmov i mashin; struktura i kinematika mekhanizmov, dinamika mashin i trenie. Pod obshchei red. N.I.Kolchina. Leningrad, Sudpromgiz, 1962. 615 p. (MIRA 15:9)
(Machinery, Kinematics of) (Cams) (Gears) (Friction)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, Mikhail Savel'yevich, doktor tekhn. nauk, prof.; MITINSKIY, Arsenii Nikolayevich, prof.[deceased]; prinyal uchastiye: GOL'TSIKER, D.G., inzh.; BORISOV, V.N., dotsent, kand. tekhn. nauk, retsenzent; SAMUYLLO, V.O., V.O.dots.,, retsenzent; TAUBER, B.A., prof., retsenzent; CHERNAVSKIY, S.A., dotsent, retsenzent; ITSKOVICH, G.M., inzh., nauchnyy red.; PITERMAN, Ye.L., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Technical mechanics; strength of materials, theory of mechanisms and machines. Machine parts] Tekhnicheskaia mekhanika; soprotivlenie materialov, teoriia mekhanizmov i mashin. Detali mashin. Izd.2., perer. Moskva, Gosleubumizdat, 1961. 781 p. (MIRA 14:6)
(Mechanical engineering) (Strength of materials)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, M.S., doktor tekhn.nauk, prof.; AKSEL'RAD, E.L., kand.tekhn.nauk

Simple calculation of natural frequencies of bending vibrations of shafts. Vest.mashinostr. 42 no.8:18-22 Ag '62. (MIRA 15:8)
(Shafting—Vibration)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MITINSKIY, Arseniy Nikolayevich; MOVNIN, Mikhail Savel'yevich; IZRAYELIT, Aron Borisovich; KONDRASHOV, D.A., insh., retsenzent; ITSKOVICH, G.M., nauchnyy red.; SHAURAK, Ye.N., red.; SHISHKOVA, L.M., tekhn. red.

[Applied mechanics] Tekhnicheskaia mekhanika. Leningrad, Sudpromgiz. Pt.2. [Strength of materials] Soprotivlenie materialov. 1963. 311 p. (MIRA 16:5)
(Strength of materials)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, Mikhail Savel'yevich; GOL'TSIKER, David Grigor'yevich; PAVLOV, B.I., kand. tekhn. nauk, dots., retsenzent; SHAURAK, Ye.N., red.; KONTOROVICH, A.I., tekhn. red.

[Mechanical engineering] Tekhnicheskaia mekhanika. Leningrad, Sudpromgiz. Pt.3. [Machine parts] Detali mashin. 1963. 287 p. (MIRA 16:11)
(Mechanical engineering)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

LOVNIN, Mikhail Savel'yevich; GOL'TSIKER, David Grigor'yevich; PAVLOV, B.I., dots., kand. tekhn. nauk, retsenzent; KRIVENKO, I.S., nauchn. red.; SHAURAK, Ye.N., red.

[Machine parts] Detali mashin. Leningrad, Sudostroenie, 1964. 323 p. (MIRA 17:12)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVNIN, Mikhail Savel'yevich; IZRAYELIT, Aron Borisovich; MKHITAROV, G.M., inzh., retsenzent; LAUTKER, E.M., nauchn. red.; SHAURAK, Ye.N., red.

[Theoretical mechanics] Teoreticheskaia mekhanika. Leningrad, Sudostroenie, 1964. 355 p. (MIRA 17:9)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

PITININSKIY, Arseniy Nikolayevich; MOANIN, Mikhail Savel'yevich; IZRAYELIT, Aron Borisovich; KONDRASHOV, D.A., inzh., retsenzent; ITSKOVICH, G.M., nauchn. red.; SHAUFEK, Ye.N., red.

[Strength of materials] Sopротivlenie materialov. 3. izd., dop. Leningrad, Sudostroenie, 1964. 325 p. (MIRA 17:11)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

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20135

9,3120 (1143, 1138, 1140)
26.2531

S/181/61/003/002/033/050
B102/B201

AUTHORS: Abroyan, I. A. and Movnin, S. M.

TITLE: Emission of an oxide cathode bombarded by charged particles

PERIODICAL: Fizika tverdogo tela, v. 3, no. 2, 1961, 567-574

TEXT: Abroyan has shown in two previous papers that a beam of potassium or hydrogen ions incident upon the surface of an emitting oxide cathode gives rise to an increase of the anode current, with $\Delta = \Delta I_a/I_1$ attaining up to 5000 electrons per ion (ΔI_a, change of electron current of the cathode, I_1, intensity of ion current at the cathode). Further studies have been made of the effect of different positive ions upon the thermionic emission and the mechanisms of the change of the thermionic cathode current. The measurements were made on an apparatus described earlier at $1\text{-}2 \cdot 10^{-7}$ mm Hg. The primary pulse currents had a duration of 10-200 μsec and a frequency of 2-2000 cps. The primary and the secondary pulse currents were recorded by a linear amplifier with resistors

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B102/B201

Emission of an oxide cathode ...

ensuring the conservation of the pulse shape. The pulse heights were measured with an СИ-1 (SI-1) or 25-И (25-I) synchroscope. Oxide cathodes with coatings of (Ba,Sr)O and (Ba,Sr,Ca)O were utilized, and the effects of ion bombardment were found to be fairly equal for both types. The typical dependence of Δ on the energy of bombarding ions is represented in Fig. 1 for 6.5 v at the hot cathode, and an anode current of 1.2 ma; (for electrons (1), hydrogen ions (2), helium ions (3), and argon ions (4), as well as, in the case of U_{cath} = 5.5 v and I_a = 1.4 ma, potassium ions (5)). Experiments with K^+ were, however, conducted with another cathode, so that the results are not comparable. The monotonic decrease of Δ (from 25 to 10) observed in electron bombardments of the cathode fits observations made by Pomerantz. Δ as a function of the plate voltage U_a first exhibits an exponential rise up to about 60 v, and, with a further increase of U_a the rise is slow and practically linear (on a bombardment by 2.5-kev potassium ions, voltage of filament battery U_{cath} = 5.25 v), $I_a(U_a)$ exhibits a similar

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Emission of an oxide cathode ...

course, a property which is conserved also on a bombardment with electrons or other ions. Δ as a function of the voltage of filament battery goes through a maximum at $U_{cath} \simeq 6$ v, has a very low value at 4 and 8 v, and at 9 v, $\Delta \simeq 0$. The electron current additionally emitted by the cathode rises and drops with time after an exponential law ($1-e^{-t/\tau}$, $e^{-t/\tau}$, respectively). For hydrogen and helium ions, $\tau \simeq 20$ μsec, for argon and potassium ions, ~ 10 μsec. The results show that the change of the emission of an oxide cathode bombarded with positive ions cannot be explained by the slowing down of ions. The safest assumption seems to be that so-called "displacement defects" are formed in the surface layer of the oxide coating, i.e., defects caused by a displacement of ions from their positions of equilibrium in internodal positions. This assumption is above all supported by theoretical considerations. The following formulas are obtained for the penetration depth δ of ions of the energy E and the atomic number z_1:

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Emission of an oxide cathode ...

$$A_1 > A_2: \quad \delta = 0.6 \frac{\left(z_1^{2/3} + z_2^{2/3}\right)^{1/2}}{z_1 z_2} \frac{A_1 + A_2}{A_1} A_2 \frac{E}{d} \text{ cm}$$

$$A_1 < A_2: \quad \delta = \frac{0.7}{\{\xi(1 - \overline{\cos\varphi})\}^{1/2}} \frac{\left(z_1^{2/3} + z_2^{2/3}\right)^{1/2}}{z_1 z_2} \frac{A_2}{A_1 + A_2} \frac{E}{d} \text{ cm};$$

A_1 is the mass of the bombarding ion, A_2 the mass of a target atom of the atomic number z_2, d the density of matter in $\mu g/cm^3$, φ the scattering angle of the ion in the laboratory system, $\xi = \overline{\ln(E_1/E_2)}$, the mean logarithmic decrement. At E = 5 kev, δ = 1500 A was obtained for H_2^+, 750 A for He^+, and δ = 50 A for Ar^+ and K^+. The mechanism of the increase of thermionic emission of the oxide cathode bombarded with fast ions is governed by the following rules: 1) increase of Δ with E, 2) independence of Δ of the intensity of the ion beam, 3) the inertial change of the thermionic current (the primary square pulses of

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B102/B201

Emission of an oxide cathode ...

1.10^{-8} - 3.10^{-7} a gave rise to secondary pulse jags with rising and dropping times of 15-30 μsec), 4) the similarity of Δ and I_a as functions of the electrode potential difference, 5) the existence of a peak of the $\Delta(T)$ curve, and, 6) the ratio of the Δ values for different ions (Δ rises with the atomic number of the bombarding ions). Professor M. A. Yeremeyev is thanked for having supervised the work, and G. G. Il'ina for her measurements. Kozlyakovskaya is mentioned. There are 5 figures, 1 table, and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina Leningrad (Leningrad Polytechnic Institute imeni M. I. Kalinin, Leningrad)

SUBMITTED: June 15, 1960

Card 5/6

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

20135

Emission of an oxide cathode ...

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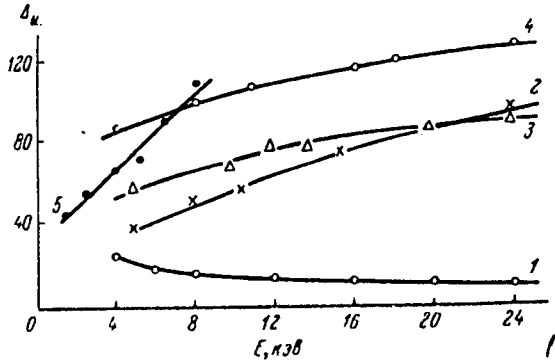

Fig. 1

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVOSELOVA, A. V.

USSR/Chemistry FD-1245

Card 1/1 : Pub. 129-7/25

Author : Simenenko, K. N.; Simanov, Yu. P; Movoselova, A. V.

Title : Basic beryllium acetate. Report No 1. Monoclinic high temperature modifications of basic beryllium acetate.

Periodical : Vest. Mosk. un., Ser. fizikomat i yest. nauk, 9, No 1, 61-62, Feb 1954

Abstract : Basic beryllium acetate forms only one high temperature modification belonging to the monoclinic syngony and is unstable under ordinary conditions. The conversion of the cubic modification into the monoclinic at 146-148 degrees is apparently monotropic. Three references (all foreign)

Institution : Chair of Inorganic Chemistry

Submitted : September 14, 1953

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

TYULENEV, A.K.; GRIGOR'YEV, A.I.; MOVOSELOVA, V.A.

Interaction of normal beryllium acetate with ammonia and ethylamine. Zhur.neorg.khim. 8 no.1:251-253 Ja '63. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra neorganicheskoy khimii.
(Beryllium acetate) (Ammonia) (Ethylamine)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVOTNY, MIROSLAV

MOVOTNY, MIROSLAV: On a Characteristic of a Continuous Ordered Set

Mat

Movotny, Miroslav. Sur une caractéristique du continu ordonné. Čechoslovack. Mat. Ž. 3(78), 75-82 (1953). (Russian. French summary)

(Cf. the preceding review.) The characteristic $q(C)$ satisfies the relation $n(C) \leq 2^{q(C)}$; it is the smallest power $\mathfrak{a}$ such that every $H \subset C$ of power $> \mathfrak{a}$ contains at least one element dividing H into two subsets, each of power $> \mathfrak{a}$; it is also the smallest power $\mathfrak{b}$ such that every $H \subset C$ of power $> \mathfrak{b}$ contains a subset whose order type is dense. If $\mathfrak{a}$ and $\mathfrak{b}$ are arbitrarily given transfinite powers such that $\mathfrak{a} \leq \mathfrak{b} \leq 2^{\mathfrak{a}}$, then there exists a continuous ordered set K such that $q(K) = \mathfrak{a}$ and $m(K) = \mathfrak{b}$. If C is a continuous ordered set, and $\mathfrak{a}$ is an arbitrary power $< \mathfrak{p}(C)$, then there exists a quasihomogeneous [cf. Novák, Czechoslovak Math. J. 1(76), 63-79 (1951); these Rev. 14, 146], symmetric, continuous ordered set K such that $q(K) = q(C)$, $m(K) = m(C)$, and $\mathfrak{a} < \mathfrak{p}(K) \leq \mathfrak{p}(C)$.

F. Bagemihl (Princeton, N. J.)

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CA

17

The assay of silver in some organic drugs. D. Barković and M. Movrin (Univ. Zagreb). *Acta Pharm. Jugoslav.* 1, 27-30 (1951) (English summary); cf. Maue, *C.A.* 16, 4297.—In *colloidal Ag* (I): heat a 0.2-g. sample in 15 ml. 50% HNO_3 until most of it dissolves and until the evolution of nitrous gases stops. Add 5 ml. 2% $KMnO_4$, boil 5-6 min., cool, gradually add $FeSO_4$ until the ppt. of MnO_2 dissolves, dil. with 50-60 ml. H_2O, and titrate with 0.1 *N* NH_4CNS (indicator: $FeNH_4(SO_4)_2$). In *Ag protein* (II) and in *Argerin* (a diacetyltannin—protein—Ag colloidal complex): same procedure as for I but with a 1-g. sample, 20 ml. 50% HNO_3, and 45 ml. $KMnO_4$ (immediately add 4-5 ml. more if most of the ppt. dissolves during boiling). In *mild Ag protein:* same procedure as for II with a 0.5-g. sample, 15 ml. 50% HNO_3, 25-30 ml. 2% $KMnO_4$, and 40-50 ml. H_2O. In *Ag gelatin:* same procedure as for II with a 0.6-g. sample, 15 ml. 50% HNO_3, 30-35 ml. 2% $KMnO_4$, and 30-40 ml. H_2O. The method is applicable to tablets and solns. of these drugs, the dil. solns. being used without previous concn.; thus heat a 100-g. sample of *1% Ag protein soln.* with 10 ml. 65% HNO_3 until the color of the mixt. becomes yellow, add 50 ml. 2% $KMnO_4$, and proceed as with II. In all cases the results are in excellent agreement with the ones obtained after destroying the org. component by ignition. 17 references.

S. Edmund Berger

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVRIN, M.

3

Reaction of methyl 2-phenylcinchoninate with bromine and its product. [illegible] and M. Movrin. *Acta Pharm. Jugosla.* 2, 126-31(1952)(German summary).—A soln. of 1-3 mg. Me 2-phenylcinchoninate (I) in 3-5 drops EtOAc and 1 drop 25% HCl absorbed in a piece of filter paper and then exposed to Br vapor gives a red coloration, useful as proof of the presence of I and for distinguishing I from related derivs. of quinoline. The reaction product (II), $C_{17}H_{13}O_2NBr_2 \cdot HBr$, of I with Br, prepd. by mixing I with Br water in HCl or HBr solution, crystd. from $CHCl_3$ as red needles, m. 185-9° (decomp.). V. Milojkov

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVRIN, M.

YUGOSLAVIA/Organic Chemistry. Natural Substances and their Synthetic Analogues. G-3

Abs Jour: Ref. Zhur.-Khimiya, No II, 1958, 36350.

Author : Barkovic D., Gasparec Z., Movrin M.(I) Barkovic D., Mavrin M.(II)

Inst : Not given.

Title : Synthesis of Certain Derivatives of the Quinolincarbonic-4-Acid Through Oxidation of Quinine Alkaloids and of Related Compound with Chromium Trioxide. I. Synthesis of Quininic Acid. II. Synthesis of 6-Ethoxyquinolinecarbonic-4 and 6-Isoamyloxyquinolincarbonic-4 Acids.

Orig Pub: Acta pharmac. jugosl., 1957, 7, No 1, 3-11, No 3, 119-127.

Abstract: I. In the oxidation of quinine or quinidine with

Card : 1/3

22

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

G

Country : YUGOSLAVIA
Category : Organic Chemistry. Synthetic Orgaic Chemistry

Ref. Zhur : Ref Zhur - Khim., No 5, 1959, No. 15410

Author : Barkovic, D.; Gasparec, Z.; Movrin, M.
Institut. : -
Title : Preparation of Certain Derivatives of Quinoline-4-Carboxylic Acid by Oxidation of Quinic Alkaloids and Related Compounds with Chromium*
Orig Pub. : Acta pharmac. jugosl., 1958, 8, No 2, 51-58

Abstract : Quinic acid (I), obtained by oxidation of quinine by the method described earlier (see report II, Ref Zhur-Khim, 1958, 36350), can be separated out from the reaction mixture, depending on the conditions, in the form of chromate (Ia) or dichromate (Ib). 5 g. of CrO_3 or 30 g. of NaCl are added to the reaction mixture

* Trioxide. III. Preparation of Quinic Acid by Direct Precipitation from an Oxidizing Mixture

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

G

Country :
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15410

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : obtained by oxidation of 0.05 mole of quinine, left standing for several days at 0-5° and Ia is separated out, with yield of 60-70%; or, 5 g. of CrO_3 in 450 ml. of water are added (at 90°) to a solution of 5 g. of I in 50 ml. of 10% H_2SO_4, left standing at 0-5° and Ia is separated out, with yield of 96.6%. 8 g. of CrO_3 in 16 ml. of 50% H_2SO_4 are added to the solution of I obtained by oxidation of 0.05 mole of quinine, left standing at 5-6° and Ib is

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVRIN, Marija

Antimetabolites and mitotic poisons. Farmaceut gl Zagreb 20 no.3/4:113-119 Mr-Ap '64.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVSESOV, E. E.

27

Treating of barium electrolyte waste. E. E. Movsesov and A. I. Kalinina. U.S.S.R. 106,695, Aug. 25, 1957. Crusts contg. $BaCl_2$ are dissolved in excess HCl and then cooled, thereby causing $BaCl_2.2H_2O$ to crystallize out.

~~M. Hosch~~

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MISHENEV, V.A.; KRAMNIK, V.Yu.; TSABOLOV, Yu.A.; NEMERYUK, Yu.G.; MOVSESOV, E.Ye.

Smelting ilmenite concentrates from various deposits for high-grade titanium slag. Titan i ego splav no.9:105-118 '63. (MIRA 16:9)
(Titanium—Electrometallurgy)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVSESOV, E.Ye.; MISHENEV, V.A.; KRAMNIK, V.Yu.; NEMERYUK, Yu.G.; TSABOLOV, Yu.A.; PETROVA, V.A.

Efficient electric conditions in the smelting of titanium slag. Titan i ego splavy no.9:119-122 '63. (MIRA 16:9)
(Electric furnaces)
(Titanium—Electrometallurgy)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

VASYUTINSKIY, N.A. (Zaporozh'ye); MOVSESOV, E.Ye. (Zaporozh'ye)

Studying the process of titanium slag oxidation. Izv. AN SSSR, Met. no.1:82-87 Ja-F '65. (MIRA 18:5)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

[illegible], E.Ye.; BYSTRENIN, M.N.; BRYNSIN, V.G.; DENISOV, S.I.

Production of rich titanium slag from an arizonite concentrate. Met. i gornorud. prom. no.2:48-50 Mr-Ap '65. [illegible]

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

MOVSESOV, E.Ye.; PECHENKIN, V.P.; BYSTRENIN, M.N.

A two-stage method of obtaining titanium slag. Met. i gornorud. prom. no.4:49-51 Jl-Ag '65. (MIRA 18:10)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1

KRAMNIK, V.Yu.; MOVSESOV, E.Ye.; PECHENKIN, V.P.

Carbonizing titanium slag briquets with incomplete combustion of natural gas. Met. i gornorud. prom. no.6:46-48 N-D '65. (MIRA 18:12)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001135420013-1"

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L 28981-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6019139 SOURCE CODE: UR/0136/65/000/009/0060/0064

AUTHOR: Movsesov, E. Ye.; Bystrenin, M. N.; Kulikova, G. P.; Garmata, V. A.

48
B

ORG: none

TITLE: Application of correlation analysis and an electronic computer for studying the melting of titanium slag

SOURCE: Tsvetnyye metally, no. 9, 1965, 60-64

TOPIC TAGS: electronic computer, titanium, slag, metal melting, furnace, chromium, vanadium, iron, titanium dioxide, distribution coefficient

ABSTRACT: The application of correlation analysis and an electronic computer for determining the effects of certain factors on the melting of titanium is described. Titanium slag is melted in electric furnaces from iron-titanium concentrates. Slag and iron are then produced. A small portion of the impurities are transferred to the iron but most impurities remain in the slag (affinity for oxygen is the main factor).

Mathematical relationships were set up to answer the following questions: 1) is the refining of the slag effective during melting; 2) what effect does the composition of the concentrate being used have upon the quality of the slag? Spectral analysis data of 270 slag specimens and 69 iron specimens were used for the correlation analysis. The calculations were carried out on a "Minsk-1" computer. The step-by-step sequence of this operation is described. Paired

UDC: 669.295

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ACC NR: AP6019139

linear and nonlinear correlations were employed. Calculations indicated that a correlation between the iron oxide content in the slag and coefficient of distribution exists only for titanium, chromium and vanadium. The course of the melting process has a marked effect upon the distribution coefficients of titanium, chromium and vanadium. It was found that melting was an effective method for removing iron from the concentrate and can also serve as a means of supplementary refining of the slag for non-basis chromium only. High-grade titanium slag can be obtained by a preliminary purifying of the raw material from impurities. This is confirmed by an equation which indicated a direct relationship between the TiO_2 content in the slag and concentrate. The derived equations for the relationship between TiO_2 content and melted and refined slag makes it possible to estimate the degree of oxidation of the slag and to accurately calculate the charge composition. Orig. art. has: 2 tables, 13 formulas and 1 figure. [JPRS]

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