"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

MATVEYEV, M.A.; KUTSENOK, B.I.

Mercury-impermeable structural materials. Zhur. VKHO 7 no.6:707-709 '62. (MIRA 15:12)

1. Moskovskiy ordena Lenina khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva i TSentral'naya nauchno-issledovatel'skaya laboratoriya po korrosii.
(Building materials--Permeability)
(Mercury)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.M.; ZOLOTNITSKIY, R.I.; RUBCHINSKAYA, R.M.

Stelazine treatment of patients with prolonged schizophrenia. Zhur. nevr. i psikh. 64 no.9:1386-1390 '64. (MIRA 17:12)

1. Kiyevskaya gorodskaya klinicheskaya psikhonevrologicheskaya bol'nitsa im. I.P. Pavlova (glavnyy vrach P.N. Lepikhov) i kafedra psikhiatrii (zaveduyushchiy - prof. Ya. P. Frumkin) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. A.A. Bogomol'tsa.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.M.

Mental disorders caused by therapeutic use of cycloserine in lung tuberculosis patients. Zhur. nevr. i psikh. 64 no.10: 1572-1574 '64. (MIRA 17:11)

1. Kiyevskaya gorodskaya klinicheskaya psikhonevrologicheskaya bol'nitsa im. I.P. Pavlova (glavnyy vrach P.N. Lepikhov).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, A. P.

Clinical aspects of acute appendicitis [illegible]
Zhur. nevr. i psikh. im. S.S. Korsakova 63-16[illegible] 1963.

1. Kiyevskaya gorodskaya klinicheskaya psikhiatricheskaya bol'nitsa im. Pavlova (Kiyev, ul. [illegible]) [illegible] psikhiatrii [illegible] Kiyevskogo [illegible] instituta.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.M. (Kiyev)

Peculiarities of the action of barbamyl in relation to various methods of administration. Vrach. delo no.8:134-135 Ag '60. (MIRA 13:9)

1. Psikhiatricheskoye otdeleniye (nachal'nik otdeleniya - kand. meditsinskikh nauk B.A. Nasonov) Kiyevskogo okruzhnogo voyennogo gospitalya.

(AMOBARBITAL)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.M.; FELIPAS, V.Ye.

Some results of the use of hexonium in insulin therapy of schizophrenia with prolonged course. Zhur. nevr. i psikh. 65 no.2:288-290 '65. (MIRA 18:9)

1. Kiyevskaya gorodskaya klinicheskaya psikhonevrologicheskaya bol'nitsa im. I.P. Pavlova (glavnyy vrach P.N. Lepekhov), i kafedra psikhiatrii (zaveduyushchiy - prof. Ya.P. Frunkin) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. A.A. Bogomol'tsa.

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEMOV, B. S.

FOOT - TUBERCULOSIS

Osteoplastic resection in localized metatarsal tuberculosis. Probl. tub., No. 6, 1951

Monthly List of Russian Accessions, Library of Congress, March 1952.
Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

[illegible]MIAT, F. Ch.; [illegible]

Effect of the tuberculosis of bones and joints on the composition of phosphrus compounds in muscles, blood, and bones of rabbits. Ukr.biokh.zhur. 28 no.4:459-464 '56. (Vol. 1[illegible])

1. Zakarpatskiy nauchno-issledovatel'skiy institut okhrany veterinarnoy i zootekhnii, Mukachevo.
(TUBERCULOSIS) (PHOSPHORUS IN THE BODY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S.; STEPANSKAYA, O.Kh.; TONKAL', V.A.

Sulfamethin (sulfone 2) therapy of osteoarticular tuberculosis. Probl.tub. 34 no.6 supplement:31-32 N-D '56. (MLRA 10:2)

1. Iz Ukrainskogo instituta tuberkuleza (dir. A.S.Manolat), Kiyev.
(TUBERCULOSIS, OSTEOARTICULAR, therapy, diaminodiphenylsulfone deriv. (Rus))
(SULFONES, therapeutic use, diaminodiphenylsulfone deriv. in osteoarticular tuberc. (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B. S., Doc Med Sci-- (diss) "Data on the study of pathogenesis and treatment of osteoarticular tuberculosis with streptomycin. (Experimental and clinical observations.)" Kiev, 1957. 20 pp (Kiev Order of Labor Red Banner Med Inst im Academician A. A. Bogomolets), 200 copies (KL, 2-58, 115)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

ROL'YE, Z.Yu., prof.; KOVALENKO, D.G., doktor med.nauk; KUTSENOK, B.S., dotsent

Use of exercise therapy and "antibacteriological-functional" therapy in osteoarticular tuberculosis. Ortop.,travm. i protez. 18 no.5:96-99 S-O '57. (MIRA 12:9)
(JOINTS--TUBERCULOSIS) (EXERCISE THERAPY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S., dots. (Kiyev, ul. Klinicheskaya, d.4, kv.1)

Healing of osteotuberculous foci following treatment with streptomycin. Nov.khir.arkh. no.1:58-60 Ja-F '58 (MIRA 11:11)

1. Klinika kostno-sustavnogo tuberkuleza (zav. - dots. B.S. Kutsenok) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza.

(BONES--TUBERCULOSIS)
(STREPTOMYCIN)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S., doktor med.nauk

Transplantation of a metatarsophalangeal joint for replacing a tuberculous metacarpophalangeal joint. Ortop.,travm. i protez. 20 no.5:52-55 My '59. (MIRA 12:9)

1. Iz kliniki kostno-sustavnogo tuberkuleza (zav. - B.S.Kutsenok) Ukrainskogo instituta tuberkuleza im. F.G.Yanovskogo (dir. - dotsent A.S.Mamolat).

(METATARSUS, surg.
metatarsophalangeal joint replacement of tuberc. metacarpophalangeal joint (Rus))
(TUBERCULOSIS, OSTEOARTICULAR, surg.
same)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S., dots.

Radical operations in spinal tuberculosis [with summary in French]. Probl.tub. 37 no.1:36-40 '59. (MIRA 12:2)

1. Iz kostnotuberkuleznogo otdeleniya (zav. B.S. Kutsenok) Ukrainskogo instituta tuberkuleza (dir. A.S. Mamolat)
(TUBERCULOSIS, SPINAL, surgery, radical (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S., doktor med.nauk

Surgical treatment of the beginning form of osteoarticular tuberculosis [with summary in English]. Vest.khir. 82 no.3:81-85 Mr '59. (MIRA 12:2)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza imeni akademika F.G. Yanovskogo (dir. - A.S. Mamolat). Adres avtora: Kiyev, Baykova gora, Klonicheskaya ul., d.4, Institut tuberkuleza.

(TUBERCULOSIS, OSTEOARTICULAR, surg.
of beginning form (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B. S., prof. (Kiyev, Novostroitel'naya ul, d. 29, kv. 6)

Replacement of a tuberculous condyle of the hip with a bone-cartilage transplant. Ortop., travm. i protez. no.3:63-65 '62. (MIRA 15:6)

1. Iz Ukrainskogo instituta tuberkuleza im. F. G. Yanovskogo (dir. - dotsent A. S. Mamolat)

(HIP JOINT--TUBERCULOSIS) (BONE GRAFTING)
(CARTILAGE--TRANSPLANTATION)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B. S., prof.; KUTSENOK, Ya. B.

"Problems in the diagnosis and treatment of osteoarticular tuberculosis." Reviewed by B. S. Kutsenok and IA. B. Kutsenok. Med. zhur. Uzb. no.6:56-60 Je '62. (MIRA 15:7)

(BONES—TUBERCULOSIS)
(JOINTS—TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S.

"Surgery in tuberculous spondylitis." Reviewed by B.S. Kutsenok. Ortop.,travm.i protez. 23 no.5:87-89 My '62. (MIRA 15:11)
(SPINE—TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.S., prof. (Kiyev, Novostroitel'naya ul., d.29, kv.6)

Bone grafting in the surgical treatment of osteoarticular tuberculosis. Ortop., travm. i protez. 25 no.5:37-39 My '64. (MIRA 18:4)

1. Iz Ukrainskogo instituta tuberkuleza i grudnoy khirurgii imeni Yanovskogo (dir. - dotsent A.S.Mamolat).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

FIRER, S.L., dotsent (Tashkent), KUTSENOK, B.S., prof. (Kiyev), KUTSENOK, Ya.B., kand. med. nauk (Kiyev)

Book reviews. Ortop., travm. i protez. 25 no.9:80-84 S '64. (MIRA 18:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSNOK, B. E.

15 15 8

Increasing the adhesion of the cord to rubber. D. A. B. Bykovskii, B. A. Dolgoplosk, E. H. Kutsnok, L. Y. Ro-Reikh, E. I. Tinakova, and B. P. Khvostkovskii. U.S.S.R. 106,506, July 28, 1957. To increase the adhesion, the cord is satd. with a carboxyl-contg. divinylstyrene latex. M. Hosch

1-4a 2c(7)
S M Ag

79

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B.Ye.; TINYAKOVA, Ye.I.; DOLGOPLOSK, B.A.

Interaction between isopropylbenzene hydroperoxide and rongalite, and the use of this reaction for initiating polymerization in acid media. Vysokom.soed. 1 no.12:1830-1839 D '59. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sintoticheskogo kauchuka.
(Polymerization) (Sodium formaldehyde sulfoxylate)
(Hydroperoxides)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

BOGUSLAVSKIY, D.; KUTSENOK, B.; UZINA, R.; DOSTYAN, M.

Synthesis and use of carboxyl-containing latices for the impregnation of tire cords. Report No.1. Kauch. i rez. 18 no.1:6-13 Ja '59. (MIRA 12:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni S.V. Lebedevai Nauchno-issledovatel'skiy institut shinnoy promyshlennosti Yaroslavskiy shinnyy zavod.
(Tire fabrics) (Carboxyl group)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

5(1)

AUTHORS: Kutsenok, B. Ye., Kulakova, M. N., Tinyakova, Ye. I., Dolgoplosk, B. A., Corresponding Member, AS USSR

SOV/20-125-5-33/61

TITLE: Initiation of the Polymerization Process in Emulsions Under the Influence of Isopropyl-benzene-hydroperoxide and SO_2

(Initsiirovaniye protsessa polimerizatsii v emul'siyakh pod vliyaniyem gidroperekisi izopropilbenzola i SO_2)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 5, pp 1075-1076 (USSR)

ABSTRACT: It was proved already earlier (Ref 1) that the reaction between the substances mentioned last in the title proceeds rapidly in hydrocarbon media. It leads to the formation of unsaturated polymers or to the formation of polysulfone if it proceeds in a styrene solution at SO_2 excess (Ref 2).

Therefrom it may be assumed that the reaction of hydroperoxide and SO_2 proceeds through an intermediate stage of the free radicals, in analogy to many other known redox reactions. The present paper deals with the investigation of the effective

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Initiation of the Polymerization Process in Emulsions SOV/20-125-5-33/61
Under the Influence of Isopropyl-benzene-hydroperoxide and SO_2

mechanism of this reaction system as well as with the clarification of its possibility of use for initiating the polymerization of monomers in aqueous emulsions and acid media at low temperature. Investigation of the composition of the interaction products of isopropyl-benzene-hydroperoxide with SO_2. The process mentioned proceeds instantaneously in an octane-water emulsion between 0 - 70°. SO_2 and hydroperoxide are consumed in equimolar quantities (Table 1). If the reaction proceeds in the presence of α-pentene or α-methyl-styrene, which are known to affiliate easily free radicals (Refs 3, 4), sulfo acids are detected in the interaction products (Table 2). Therefore the radical SO_3H forms one of the intermediate products of the reaction. The formation of sulfuric acid as a final product of the oxidation may be due to the reaction of the disproportionation of the radicals. If the acceptors of free radicals lack, the reaction proceeds readily in the direction of the formation

Card 2/4

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Initiation of the Polymerization Process in Emulsions SOV/20-125-5-33/61
Under the Influence of Isopropyl-benzene-hydroperoxide and SO_2

of sulfuric acid and carbinol. Initiation of the polymerization under the influence of hydroperoxide and SO_2. Since the interaction of the components in aqueous emulsions and in a homogeneous medium proceeds rapidly, the first experiments of the aforesaid initiation do not yield positive results. The high concentration of active centers at the beginning of the process caused short reaction chains and the end of polymerization. It is known that such systems may be used for initiating the polymerization only by regulating the rate of interaction of the components by different methods. This is achieved especially at 0° with a gradual dosage of the components. Figure 1 shows the yields of the polymer in the presence of 0.6 % of the hydroperoxide mentioned (computed with respect to the styrene weight) and at an equivalent quantity of 0,1 N SO_2-solution according to the sequence of the addition of the components. This shows that with the addition of hydroperoxide and SO_2 the polymerization ceases instantaneously

Card 3/4

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Initiation of the Polymerization Process in Emulsions SOV/20-125-5-33/61
Under the Influence of Isopropyl-benzene-hydroperoxide and SO_2

(at the beginning of the reaction) (Curve 1). The process is quickest at a gradual dosage of the two components. The yield amounts here to 87 % at 0° within 4 hours (Curve 2). Figure 2 shows the kinetic polymerization curves of styrene in the presence of various quantities of hydroperoxide. Above 0.3 % and more of the concentration of the latter the polymerization ceases practically. A complete consumption of hydroperoxide and SO_2 corresponds to this moment. The polymerization begins again at a temperature rise up to 30° (Fig 3). Therefore an intermediate compound is produced under certain conditions which is able to initiate the polymerization at higher temperatures. There are 3 figures, 2 tables, and 8 references, 4 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev)

SUBMITTED: January 5, 1959

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

S/138/63/000/002/001/007
A051/A126

AUTHORS: Kutsenok, B.Ye., Parfenova, G.A., Vinogradov, P.A., Paskhalis, T.K.

TITLE: Butadiene polymerization with nitrile of acrylic acid in the presence of oxidation-reduction systems

PERIODICAL: Kauchuk i rezina, no. 2, 1963, 1 - 4

TEXT: Composition and conditions of polymerization are given for butadiene with nitrile of acrylic acid in an emulsion at 30°C and in the presence of Nekal, using oxidation-reduction systems. The polymerization of the benzene-petroleum-resistant СКН-18 (SKN-18), SKN-26 and SKN-40 rubbers is initiated by free radicals, formed in the decomposition of potassium persulfate, under the effect of an amine type activator. The following oxidation-reduction systems were tested as new, more active initiators of polymerization: a) isopropylbenzene hydrogen peroxide (hyperis), rongalite, and iron-trilon complex, for polymerization in an alkaline medium; b) hydrogen peroxide and rongalite, for polymerization in an acid medium. The initiating system for the polymerization had the following composition (in weight parts to 100 w.p. of monomer): for the alkaline medium -

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

rongalite 0.3, trilon B 0.06, $FeSO_4 \cdot 7H_2O$ 0.022, hyperis 0.2; for the acid medium - rongalite 0.2. The pH of the aqueous phase was 8 - 11 and 6 - 6.5, respectively. Experimental data showed that the application of a rongalite system, both in an alkaline, as well as acid medium, reduces the duration of polymerization of the butadiene with nitrile of acrylic acid, by at least 1.5 - 2 times, and ensures good reproducibility of the process. The latexes have a sufficiently high tensile strength. The suggested composition is accepted as optimum in an acid medium. A change in the pH from 8.5 to 11 in an alkaline medium does not affect the rate of polymerization. This also applies to a change in the trilon content from 0.01 to 0.06% of the monomer weight, provided the initiator is measured out during the process gradually. General experiments led to the recommendation of the following ingredients of the oxidation-reduction system in an alkaline medium: rongalite 0.1 - 0.15, trilon B 0.01, $FeSO_4 \cdot 7H_2O$ 0.005, hyperis 0.15 - 0.2, pH of the aqueous phase 9.0 - 10.5. The process duration (to a polymerization depth of 68 - 70%) for SKN-18 is 8 - 9 h, for SKN-26 7 - 8 h, for SKN-40 4.5 - 5.5 h. In an acid medium, the following composition of the oxidation-reduction system is recommended: rongalite 0.15 - 0.2, hyperis 0.15 - 0.2, pH of the aqueous phase 5.5 - 6.0. The process du-

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ration in this case is: SKN-18 6 - 7 h, SKN-26 4.5 - 5.5 h, SKN-40 4 - 4.5 h. It is concluded that in the polymerization of butadiene with nitrile of acrylic acid at 30°C and in the presence of Nekal, the use of oxidation-reduction systems, consisting of isopropylbenzene hydrogen peroxide, rongalite and iron-triton complex (in an alkaline medium) and isopropylbenzene hydrogen peroxide and rongalite (in an acid medium), increases the rate of the process by a factor of 1.5 as compared to rates achieved in the presence of a potassium persulfate-triethanolamine system. Rubbers produced with a rongalite system do not differ from serial-production rubbers. There are 2 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber imeni S.V. Lebedev)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

AMERIK, B.K.; ORKINA, Z.G.; BARYSHEV, N.V.; STAMULIS, I.A.; KUTSENOK, L.Z.

Possible indices of the operation of reaction apparatuses for contact coking under intensified conditions. Trudy GrozNII no.4:101-113 '59. (MIRA 12:9)

(Petroleum coke)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

ROT, A.G., inzh., [illegible]

Separation of mobile [illegible]

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

ACC NR: AP7004405 SOURCE CODE: UR/0226/67/000/001/0095/0098

AUTHOR: Goryachev, Yu. M.; Kutsenok, T. G.

ORG: Institute for Problems in the Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Effect of alloying on the electric conductivity of cerium sulfide

SOURCE: Poroshkovaya metallurgiya, no. 1, 1967, 95-98

TOPIC TAGS: electric conductivity, cerium sulfide, cerium sulfide alloy, electric resistance

ABSTRACT: An investigation has been made of the effect of alloying on the electric conductivity of cerium sulfide. The electrical properties of cerium sulfide may be changed over wide ranges by proper alloying. The most effective alloying of cerium sulfide is with the lithium, magnesium, and barium compounds. The change in electrical resistance of cerium sulfide induced by alloying provides information on the peculiarities of the zone structure of this semiconductor. The authors thank V. A. Obolonchik and S. V. Radzikovska for submitting a cerium sulfide. Orig. art. has: 5 figures and 2 tables. [Based on authors' abstract]

SUB CODE: 11/SUBM DATE: 10Aug66/ORIG REF: 006/OTH REF: 002/ [NT]

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

ACC NR: AP6034194 SOURCE CODE: UR/0369/66/002/005/0532/0537

AUTHOR: Ogorodnikov, V. V.; Koval'chenko, M. S.; Krayniy, A. G.; Kutsenok, T. G.; Karasev, V. S.; Slavuta, V. I.; Konozenko, I. D.; Ryzhkov, Yu. T.

ORG: Institute of the Science of Materials (Institut problem materialovedeniya); Physics Institute AN UkrSSR, Kiev (Institut fiziki AN UkrSSR)

TITLE: Radiation effect in titanium and chromium carbides

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 5, 1966, 532-537

TOPIC TAGS: refractory carbide, titanium carbide, chromium carbide, nuclear reactor material, irradiation effect, radiation damage, titanium compound carbide, neutron flux, nuclear reactor, grain size, metal physical property / BBP-M nuclear reactor

ABSTRACT: Changes in electrophysical properties of titanium carbode TiC and chromium carbide Cr_7C_3 have been studied after irradiation of these materials with a fast neutron flux at ~100C in the BBP-M nuclear reactor of the Academy of Sciences UkrSSR. Also, thermal recovery of irradiated refractory titanium and chromium carbides was studied to obtain data on defects in the solid state. The study was initiated for the purpose of assessing the applicability of these carbide materials in nuclear reactors. Radiation resistance to a flux of fast neutrons in the 10^{16} to 10^{20} n/cm^2 dose range was, in general, higher in cubic TiC than in hexagonal Cr_7C_3, as reflected in the differently increased lattice parameters, macroscopic dimensions, microhardness, and electric resistivity. Only microbrittleness increased equally in irradiated TiC and Cr_7C_3. The average grain size of both carbides decreased

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

ACC NR: AP6034194

simultaneously. Recovery of the properties studied and of the average grain size was observed in both irradiated carbides after heat treatment at a temperature in the 400—1200C range. The recovery of properties with the exception of microbrittleness of both carbides occurred in several stages. Thermally activated glide of dislocations was seen as the primary cause of the recovery in the low-temperature (about 400C) stage, while diffusion which leads to coagulation of point defects and formation of precipitates was the predominant factor of the strengthening of materials at increasing temperature of heat treatment. Orig. art. has: 4 figures.

SUB CODE: 11, 18/ SUBM DATE: 04Apr66/ ORIG REF: 004/ OTH REF: 003/

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, Ya.B.

Compression of the spinal cord in scoliosis. Trudy Ukr. nauch. issl. inst. ortop. i travm. no.15:93-94 '59 (MIRA 16:12)

1. Iz Chernigovskogo oblastnogo tuberkuleznogo dispansera (ispolnyayushchiy obyazannosti glavnogo vracha L.Ya.Zamdborg).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, Ya.B.

Two cases of symmetrical tuberculous osteitis in the vicinity of the hip joint. Probl.tub. no.8:101-102 '61. (MIRA 15:5)

1. Iz kliniki kostno-sustavnogo tuberkuleza (zav. - prof. E.S. Kutsenok) Ukrainskogo instituta tuberkuleza imeni F.G. Yanovskogo (dir. - dotsent A.S. Mamolat).
(HIP JOINT--TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, Ya.D.

Sequestration of the proximal end of the femur in tuberculous coxitis. [with summary in French]. Probl.tub. 36 no.5:78-81 '58 (MIRA 11:8)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. A.S. Mamolat) i oblastnogo protivotuberkuleznogo dispansera g. Chernigova (glavnyy vrach M.G. Balabuy).
(TUBERCULOSIS, OSTEOARTICULAR, surgery
hip, sequestration of proximal femoral end (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, Ya.B.

Conference on osteoarticular tuberculosis sponsored by the Ukrainian IAnovskii Tuberculosis Research Institute. Probl. tub. 37 no.2:110-113 '59. (MIRA 12:9)
(BONES--TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, Ya.B.

Operative approach to mediocentral foci near the hip joint. Pat., klin.i terap.tub. no.8:203-205 '58. (MIRA 13:7)

1. Iz protivotuberkuleznogo oblastnogo dispansera g. Chernigova (zav. - Zamdborg, L.Ya.) i Ukrainskogo instituta tuberkuleza (direktor - A.S. Mamolat).
(HIP JOINT--TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

SIVENKO, F.F.; KUTSENOK, Ya.B.

Topical X-ray diagnosis of tuberculous foci in the body of the ileum and its significance for the clinic. Ortop. travm. i protez. 21 no. 10:40-45 '60. (MIRA 14:1)

(ILEUM—TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOK, B. S., prof.; KUTSENOK, Ya. B.

"Problems in the diagnosis and treatment of osteoarticular tuberculosis." Reviewed by B. S. Kutsenok and IA. B. Kutsenok. Med. zhur. Uzb. no.6:56-60 Je '62. (MIRA 15:7)

(BONES—TUBERCULOSIS)
(JOINTS—TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KOVAL', D.Ye. (Kiyev, 53, Kiyanovskiy per., d.6. kv.3); KUTSENOK, Ya.B.

Precise measurement of the cervicodiaphysial angle, the angle of deviation and the "dihedral angle of deviation" of the femoral neck. Ortop., travm. i protez. 24 no.12:60-74 D '63. (MIRA 17:7)

1. Ukrainskogo instituta ortopedii i travmatologii (direktor - dotsent I.P. Alekseyenko) i Kiyevskogo instituta usovershenstvovaniya vrachey (rektor - dotsent M.N. Umovist, nauchnyy rukovoditel' UNIITO i zaveduyushchiy kafedroy Kiyevskogo instituta usovershenstvovaniya vrachey - chlen-korrespondent AMN SSSR prof. F.R. Bogdanov).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

FIRER, S.L., dotsent (Tashkent); KUTSENOK, B.S., prof. (Kiyev); KUTSENOK, Ya.B., kand. med. nauk (Kiyev)

Book reviews. Ortop., travm. i protez. 25 no.9:80-84 S '64. (MIRA 18:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOV, V.

"The power regulation of CES cascades located on streams whose water is utilized by others."

Dissertation for Candidate of Technical Sciences, Moscow Power-engineering Inst. im. Molotov (MEI)

Subject: hydropower engineering

Gidrotekhnicheskoye, stroitel'stvo, 12, 1946.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

PA38/49T22

USSR/Electricity Mar 49
Power Plants, Electric
Power Plants, Thermal

"Role of the Control Hydrostation in Maintaining a Reserve for Thermal Power Systems," V. A. Kutsenov, Cand Tech Sci, I. M. Zamyatina, Engr, MONITOE, 3 pp

"Elektrichestvo" No 3

Determination of fixed capacity for a hydroelectric station is one of most important problems of design. It is important to separate various functions of a reserve by distributing it between

[redacted] 38/49T22

USSR/Electricity (Contd) Mar 49

hydroelectric station and thermal power systems. Describes characteristics of various reserves. Concludes that thermal reserve should not be smaller than that part of the working capacity of all units which represents emergency underproduction of the entire system.

KUTSENOV, V. A. [redacted]

38/49T22

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOV, V.A., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk.

Distribution of power reserve in power systems with large regulated water-power stations. Izv.VNIIG no.43:21-30 '50. (MLRA 10:2)
(Hydroelectric power stations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

B 64

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621.311.15

2910. Rational states of simultaneous operation of hydroelectric and thermal stations in a power system. V. O. ALVAZYAN AND V. A. KUTIMOV. *Gidrotekh. Stroit.*, No. 2, 10-15 (1951) *In Russian.*

Optimum load distribution between thermal and hydroelectric stations with large water reservoirs is discussed. A method of effective power increments can be used to determine such a distribution under stable load conditions. With variation of load it depends upon the rate of change. J. ŁUKASZEWICZ

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

[illegible], V. I.

Hydroelectric Power Stations

Effect of water discharge of hydroelectric power stations of the combined type of power economy. Gidr. stroi. 21, no. 6, 1952.

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

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOV, V.A.; SHTEYNGAUZ, Ye.O.

[Problems in technical and economic planning of large hydroelectric stations in power systems] Voprosy tekhniko-ekonomicheskogo proektirovaniia krupnykh gidrostantsii v energosistemakh. Moskva, Gos. energ.izd-vo, 1953. 382 p. (MLRA 6:12)

(Hydroelectric power stations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSENOV, V.A., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Frequency regulation in a power system by means of a hydroelectric power station. Izv.VNIIG 49:17-30 '53. (MIRA 12:5)

(Power engineering)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 42291-66 EWT(m)/[illegible] [illegible]M

ACC NR: AP6031479

SOURCE CODE: UR/0217/66/011/003/0427/0433

AUTHOR: Sapezhinskiy, I. I.; Silayev, Yu. V.; Kutsenova, A. V.

ORG: Institute of Chemical Physics, AN SSSR, Moscow (Institut khimicheskoy fiziki AN SSSR)

TITLE: Intensification of photochemiluminescence of protein solutions by dyes

SOURCE: Biofizika, v. 11, no. 3, 1966, 427-433

TOPIC TAGS: dye chemical, protein, chemiluminescence

ABSTRACT: The purpose of the article is to explain the mechanism of the increase in intensity of luminescence which occurs when dyes are added to irradiated protein solutions and to study the physical processes of intensification. It is shown that dyes of the flourescein series (sodium flourescein, erythrosin, sodium eosin, eosin yellowish) intensify the photochemiluminescence of irradiated protein. The kinetic mechanisms of activated luminescence are studied, and it is shown that eosin yellowish does not affect the chemical process which causes photochemiluminescence. Spectral investigations indicate that the light emission of activated chemiluminescence takes place from levels of dye molecules associated with the protein molecule. Estimates are given for the quantum yield of excited product η_p and for values of the ratios k_{pd}/f_p (where f_p is the probability of emission migration of protein molecules and k_{pd} is the constant of "excited product-dye" energy transfer), and possible reasons are considered for the low value of the former and high values of the latter.

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 42291-66
ACC NR: AP6031479

A scheme is suggested for the physical processes of activated photochemiluminescence. Orig. art. has: 5 figures and 3 formulas. [JPRS: 36,932]

SUB CODE: 07 / SUBM DATE: 30Jun65 / ORIG REF: 008 / OTH REF: 003

Card 2/2 fdk

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 52958-65 EWT(1)/EWT(m) Peb DIAAP/IJP(c)

ACCESSION NR: AP5010493 UR/0056/65/048/004/1013/1021

AUTHOR: Berlovich, E. Ye.; Kutsentov, L. M.; Fleysher, V. G. 24 22 B

TITLE: Investigation of the "jolting" of electron shells of oriented molecules containing P-32

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1013-1021

TOPIC TAGS: ionization, Beta decay, electron shell, phosphorus, surface activity, electron yield, oriented molecule, monomolecular layer

ABSTRACT: The authors studied the β-decay-induced ionization of the outer electron shells of oriented organic molecules containing P^{32}. Acts of ionization of the outer shells were registered directly by means of electrons "jolted" out of the source, the preparation of which was based on the property of surface-active organic compounds to form oriented monomolecular layers on polar liquids. The source preparation technique was described earlier (PTE No. 5, 179, 1962). A schematic representation of the source and a diagram of the detection apparatus used are shown in Fig. 1 of the Enclosure. The measurement procedure is described in detail.

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 52958-65

ACCESSION NR: AP5010493

2

The lower limit of the yield of ionization electrons from the valence shell of the organic liquid employed (monoacetyl phosphate) is estimated to be 28% per β decay. By replacing the hydroxyl hydrogen in these molecules by mercury, a correlation was found to exist between the ionization probability and the mean momentum component of the recoil nucleus at an angle 60° to the molecule axis. The largest ionization contribution depending on the β-particle energy is observed when the latter is emitted perpendicular to the orientation of the molecules, and comprises 0.3 ± 0.05 of the total ionization probability for the hard part of the β spectrum. This shows that ionization dependent on the recoil-nucleus velocity exists along with the ionization that is independent of the particle energy and is due to "jolting" of the shell. "We thank V. M. Lobashov and his co-wprkers for supplying the compound with the high-activity P^{32}." Orig. art. has: 3 figures and 3 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 30Oct64 ENCL: 01 SUB CODE: NP

NR REF SOV: 005 OTHER: 016

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEPALENKO, V.F.

Investigating the overlapping of mine hoist ropes. Bezop.truda v prom. 3 no.2:21-23 F '59. (MIRA 12:2)

1. Tomskiy politekhnicheskiy institut im. S.M.Kirova.
(Mine hoisting--Safety appliances)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEPALENKO, V. P., Cand Tech Sci -- (diss) "Investigation of the performance of underground mining cables." Tomsk, 1960. 11 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Tomskiy Order of Labor, Red Banner Polytechnic Institute im S. M. Kirov); price not given; (KL, 19-60, 134)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEPALENKO, V V

USSR/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60886

Author: Savintsev, P. A., Kutsepalenko, V. V.

Institution: None

Title: On Surface Energy of Monocrystals of the Systems Sodium Chloride-Calcium Chloride and Potassium Chloride-Potassium Bromide

Original Periodical: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, 1955, No 34, 170-177

Abstract: By the method of mutual grinding were measured the surface energies σ of monocrystals of the system KCl-NaCl (I) and system KCl-KBr (II). σ of I were also measured by the method of drilling. σ of KCl monocrystal decreases with increase therein of NaCl concentration. σ NaCl decreases with increase of KCl concentration. An analogous correlation holds for II. In this case σ has a minimum for the composition: 30 mol % KBr, 70 mol % KCl. Admixture of NaCl lowers σ KCl more than admixture of KBr.

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Category : USSR/Solid State Physics - Phase transformation of solid bodies E-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1216

Author : Savintsev, P.A., Kutsepalenko, V.V.

Title : Measurement of the Surface Energies of Monocrystals of a Potassium-Chloride -- Sodium Chloride System Using the Method of Drilling and Mutual Polishing

Orig Pub . Izv. Tomskogo politekhn. in-ta, 1956, 83, 206-209

Abstract : The surface energy σ of the crystals was determined in two ways. If two crystals are correctly polished one gets $\sigma_1 V_1 = \sigma_2 V_2$, where V is the polished volume. The theory of the drilling method gives $\sigma_1 a_1 = \sigma_2 a_2$, where a is the angular coefficient on the "diameter of conical crater vs. number of drill revolutions under constant pressure" curve on the drilling diagram. The investigations were performed on monocrystals of NaCl with an admixture of KCl (up to 12 molecular percent) and on monocrystals of KCl with an admixture of NaCl (up to 12 molecular percent). The results obtained by both methods turned out to be comparable. Addition of KCl to NaCl as well as addition of NaCl to KCl cause a reduction in the surface energy, this being explained by the weakening of the bonds in the lattice. This effect is particularly large at

Card : 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Category : USSR/Solid State Physics - Phase transformation of solid bodies E-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1216

low temperature concentrations (up to 2.5%). Annealing the monocrystals of the solid solutions did not exert a noticeable influence on the value of the surface energy.

Card : 2/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 14982-63 EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pr-4 JD
ACCESSION NR: AP3004030 S/0139/63/000/003/0015/0017

AUTHOR: Kutsepalenko, V. V.; Melik-Gaykazyan, I. Ya.

TITLE: The effect of irradiation on certain properties of solid solutions of the KCl-KBr system

SOURCE: IVUZ. Fizika, no. 3, 1963, 15-17

TOPIC TAGS: irradiation, defect formation, gamma irradiation, electron irradiation, electron bombardment, radiation damage, solid-solution irradiation, solid solution

ABSTRACT: The effects of irradiation on the yield strength, microhardness, and electrical conductivity of KCl and KBr single crystals and on KCl-KBr solid solutions were experimentally investigated. Two types of irradiation were used: 1) bombardment with 0.7-Mev electrons from an accelerator (average electron current density, 0.13 μamp/cm^2; the exposure time, 1.5 hr; total electron energy, 10^{23} ev/cm^3) and 2) irradiation with γ-rays from a Co^{60} source (activity of the source, 16,000 Curie gram-equivalent; exposure time, 10 days; integrated dose, 10^9 r). As a result of electron bombardment, the microhardness, the yield

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 14982-63
ACCESSION NR: AP3004030

strength, and the electrical conductivity of single crystals increased by 6, 9, and 130% in the case of KBr, and by 20, 30, and 250% in the case of KCl. Irradiation by γ-rays also caused a 6% increase in microhardness and yield strength of KBr single crystals and a 10 and 20% increase, respectively, in the case of KCl single crystals. Irradiation with γ-rays and electrons had no effect on the microhardness, the yield strength, or the electrical conductivity of KCl-KBr solid solutions. These results are in good agreement with theoretical predictions that solid solutions have higher radiative stability. "The authors thank Professor A. A. Vorob'yev for his participation in setting up this investigation and in the discussion of its results, Professor M. V. Klassen-Neklyudova for making available the relaxometer, Professor A. Kh. Breger for making it possible to obtain the specimen, and A. K. Pikayeva for her aid in specimen irradiation." Orig. art. has: 2 figures.

ASSOCIATION: Tomskiy politekhnicheskiy institut imeni S. M. Kirova (Tomsk Polytechnic Institute)

SUBMITTED: 28Dec61 DATE ACQ: 15Aug63 ENCL: 00

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

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 17153-65 EWT(m)/EPF(c)/EPF(n)-2 Pr-4/Pu-4 ESD(gs) GG
ACCESSION NR: AR4049268 S/0081/64/000/015/B047/B047

SOURCE: Ref. zh. Khimiya, Abs. 15B312

AUTHOR: Kutsepalenko, V.V., Troskina, M.N.

TITLE: The effect of radiation on some properties of solid solutions in the system KCl-KBr

CITED SOURCE: Mezhvuz. sb. tr. Zap.-Sib. sovet po koordinatsii i planir. nauchno-issled. rabot po tekhn. i yestestv. naukam, vy*p. 2. 1963, 46-49

TOPIC TAGS: alkali halide, radiation resistance, alkali halide solid solution, potassium halide, lattice energy, crystal hardness, crystal conductivity

TRANSLATION: Changes produced by radiation in the physical properties of crystals of alkali metal halides intensify with an increase in lattice energy. The formation of solid solutions of alkali metal halides leads to the reduction of the lattice energy and an increase in its imperfection when compared to pure initial alkali metal halides. Changes in microhardness, yield point and electrical resistance, occurring when solid solutions

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 17153-65

ACCESSION NR: AR4049268

of KCl-KBr were exposed to an electron beam of 0.7 Mev or to gamma rays from Co^{60} were most extensive for pure KCl and substantially less for KBr. These properties remained unchanged for solid solutions of KCl-KBr within the limits of accuracy of the experiment. V. Neshpor

ASSOCIATION: none

SUB CODE: IC, SS ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

AMENITSKAYA, R.V.; BATALOV, A.P.; GLAZOV, V.M.; KORSHUNOV, I.A., prof.; KUTSEPIN, V.F.; NOVOTOROV, N.F.; ORLOVA, A.A.; PETIN, A.M.; SHAFTYEV, A.I.

[Problems in radiochemistry]Sbornik zadach po radiokhimii. [by] R.V.Amenitskaia i dr. Pod red. I.A.Korshunova. Gor'kii, Gor'kovskii gos. univ. im. I.I.Lobachevskogo, 1959. 91 p. (MIRA 15:11)

1. Prepodavateli khimicheskogo fakul'teta Gor'kovskogo gosudarstvennogo universiteta im. N.I.Lobachevskogo (for all)
(Radiochemistry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 62591-65 EWT(m)/EWG(m)/EWP(b)/EWP(t) IJP(c) RDW/JD

ACCESSION NR: AP5018246 UR/0078/65/010/007/1647/1652
546.22+546.23+541.123.2

17
B

AUTHOR: Devyatykh, G. G.; Umilin, V.A.; Agliulov, N. Kh.; Kutsepin, V. F.

TITLE: Liquid - vapor equilibrium in the sulfur - selenium system

27 27

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 7, 1965, 1647-1652

TOPIC TAGS: sulfur, selenium, separation factor, fractional distillation

ABSTRACT: The separation factor α for a mixture of sulfur and selenium was determined by a static method. At a selenium concentration of 4.5 wt. % and 430C, the separation factor is equal to 6.5. The equilibrium between liquid and vapor was reached very slowly in these experiments. The separation factor was also determined by experiments involving rectification of the selenium - sulfur mixture, and was found to be 1.49, a value which is in satisfactory agreement with data obtained by the circulation method. The causes of discrepancies between the separation factors obtained by the different methods are examined. The dependence of the separation factor on the method of its determination is attributed, among other things, to the fact that sulfur and selenium form a series of unstable compounds, and each method of determination of α is

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

L 62591-65

ACCESSION NR: AP5018246

carried out under different conditions of formation and decomposition of these compounds. Furthermore, the factor α is determined by two opposite processes: association in the liquid, and dissociation in the vapor; hence, the value of α is affected by the vaporization rate, vapor temperature, relative amounts of liquid and vapor, etc. Thus, different methods produce different results. Orig. art. has: 3 figures, 3 tables, and 4 formulas.

ASSOCIATION: None

SUBMITTED: 06Feb64 ENCL: 00 SUB CODE: IC

NO REF SOV: 012 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSER, M.; NESUL, U.

Application of A.I. Lur'ye's symbolic method to the dynamics of plates under stress symmetrical relative to the middle surface. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 14 no.3:385-392 '65. (MIRA 18:11)

1. Institut Kibernetiki AN Estonskoy SSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

SOV/112-58-2-2631

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 134 (USSR)

AUTHOR: Kutser, M. Ya.

TITLE: Electric-Motor Load-Percentage Recorders Installed on Metal-Cutting Machines (Ustanovka na metallorezhushchikh stankakh priborov, registriruyushchikh zagruzku elektrodvigatelya)

PERIODICAL: Mashinostroitel' Belorussii, Nr 2 (3), 1957, pp 112-113

ABSTRACT: Bibliographic entry.

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

SOV/137-58-9-19070

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 133 (USSR)

AUTHOR: Kutser, M.Ya.

TITLE: An Automatic Press for High-speed Stamping of Small Articles (Press-avtomat dlya skorostnoy shtampovki melkikh detaley)

PERIODICAL: V sb.: Mashinostroitel' Belorussii. Nr 4, Minsk, 1957, pp 48-50

ABSTRACT: A description is presented of an automatic press developed by a development engineer at the Minsk Automobile Plant, G.D. Gudkevich. The blank material is delivered automatically through two pairs of rolls driven by the crankshaft of the press by means of a by-pass coupling. The drive assembly was rebuilt by V.I. Zhagiro, machinist at the Minsk Radio Plant. This resulted in complete stability of adjustment simplified the kinematics, and eased the operation of the automatic press. Its introduction into production considerably increased production and reduced the physical labor required in making dies, and in their weight. The weight of the automatic press is 64 kg. M.Ts.

Card 1/1

1. Dies--Production 2. Forge presses--Design 3. Forge presses--Operation

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSER, M.Ya., inzh.; SVICHAR, N.Sh., inzh.

Introduction of universal boring heads. Mash.Bel. no.5:140-142 '58. (MIRA 12:11)

(Drilling and boring machinery)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

SVICHAR, N.S.; KUTSER, M.Ya.

The D-452-type bucket loader. Biul.tekh.-ekon.inform. no.11: 72-74 '59. (MIRA 13:4)

(Conveying machinery)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSER, M.Ya., inzh.; PRESS, A.Z., inzh.

Conveyorizing of assembly shops at the Minsk Radio Plant. Mekh. i avtom. proizv. 16 no.6:26-28 Je '62. (MIRA 15:6)
(Minsk--Assembly line methods)
(Minsk--Radio industry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

ROMAN, O. V.; BELYAYEV, V. S.; KUTSER, M. Ya.

"The use of byproduct steel powder from ball bearing production in powder metallurgy."

paper to be presented at Intl Powder Metallurgy Conf, New York City, 14-17 June 65.

Belorussian Polytechnic Inst.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSERDA, S.T., starshiy mekhanik, geroy Sotsialisticheskogo Truda, SAMOYLOV, M.A., starshiy nauchnyy rabotnik

Mechanized handling of mother beets. Mekh. sel'. hosp. 9 no.9:11-12 S '58. (MIRA 11:10)

1.Sakharo-sveklovodcheskiy sovkhoz Ul'yanovskogo sakharokombinata Kirovogradskoy oblasti (for Kutserda). 2.Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly (for Samoylov).
(Sugar beets) (Agricultural machinery)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSERIB, N.A.

Nomograms for calculating basic loads in erecting triangulation signal towers. Geod. i kart. no.11:33-36 N '62. (MIRA 15:12)
(Triangulation signal towers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSERIB, N.A.

Eliminating errors made by [illegible] no.5.16-17
My '64. (MIRA 17:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

BLYUMIN, M.A.; KUTSERIB, N.A.

"Erecting signals" by V.N.Shishkin. Reviewed by M.A.Bliumin and N.A.Kutserib. Geod.i kart. no.12:65-66 D '62. (MIRA 16:2)

(Triangulation signal towers)
(Shishkin, V.N.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, L., kand. [illegible] nauk

Science taking changes into account. Tekh. i [illegible]. no.5:47-50 My '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV,M., inzh.

Adjustment of bettery radio receiv rs to the network feeder.
Radio i televiziia 12 no.4:120 '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KOL'MAN, E., prof.; GORPINICH, K.Ye., uchitel'; SHTEPAN, V.Ye., prepodavatel' teoreticheskoy mekhaniki; VLASOV, O.Ye., prof. (Moskva); MERKULOV, I.T. (Ul'yanovsk); KUTSEV, M.M. (Kuybyshev); CHAPTYKOV, P.G. (Leningrad); DEMIN, V.N. (Tashkent); TUKMAN, R.E. (Tallin); GERTS, G., doktor fizicheskikh nauk, dotsent; DUDEL', S.P., doktor filosof. nauk, prof. (Moskva)

Finiteness and infinity in the universe; survey of letters and articles received by the editor. Priroda 54 no.8:97-102 Ag '65. (MIRA 18:8)

1. Shkola No.8 g. Kremenchuga (for Gorpinich). 2. Krasnoyarskiy politekhnicheskiy institut (for Shtepan). 3. Filosofskiy fakul'tet universiteta im. Gumbol'dta, Berlin, Germanskaya Demokraticheskaya Respublika (for Gerts).

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

28

Purification of raw [sugar] juice with colloidal $CaCO_3$. S. S. Kutsev, T. L. Gorovits and P. S. Sergeev. *Rep. Sci. Inst. Sugar Ind.* (U. S. S. R.) *Sovetsk. Trud.* 1931, No 1039, 28-31.—Colloidal $CaCO_3$ (I), obtained by partly carbonating a mixt. of diffusion juice and CaO, was added to the main raw juice, which was then filtered. To the filtrate was added a further quantity of I, and then the mixt. was heated, carbonated to the optimum alky. of a 2nd carbonated juice, and again filtered. It is stated that the purifying action of I thus prepd. is much greater than that of $CaCO_3$ as ordinarily formed in carbonation; filtration is slower, but this is compensated by the much smaller vol. of ppt. to be handled. H. C. P. A.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

PROCESSES AND PROPERTIES INDEX

18

CA

Removal of bitter constituents from the juice of walnut leaves. B. B. Kutsev and E. P. Skorobogatova. U S S R. 67,095, Dec. 31, 1946. Acid or acidified (H_2SO_4 or H_2SO_3) juice of walnut leaves is mixed with a colloidal suspension of $CaCO_3$ contg 1.7-2% of free CaO. The suspension is used in such quantities that the product remains slightly acid. The mixt. is brought to a boil, filtered, and the filtrate immediately acidified. This method preserves vitamin C in the juice. M. Hirsch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

CA

19

Removal of bitterness from the juice of green walnut containing vitamin C. S. S. Kutsov and E. P. Skorobogatova. U.S.S.R. 67,920, Feb. 28, 1947. To the acid juice is added chalk; a slight excess over the quantity needed to neutralize the juice is used. The mixt is brought to a boil, filtered, and immediately acidified with an edible acid. Cf. C.A. 43, 3151g. M. Hosch

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, S.S.

USSR.

The preparation and storing of carrot carotene as crystals or in oil solutions. S. S. Kutsev and N. N. Cherniavova. *Trudy Vsesoyuz. N[redacted]*. Vitamin. Inst. 4, 31-8(1953).—The method of carotene prepn. previously described (*Sbornik Tekhnologicheskikh Instruktsii po Proizvodstvu Vitaminov. Pishchepromizdat*, 1943) has been modified by shortening the period of exposure to air, sunlight, and heat. Carotene in hermetically sealed vials free from air can be kept 1 year in the dark. N. S. Levine

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, S.S.

KUTSEV, S.S.

Using colloid calcium carbonate for purification of beet-sugar products. Sakh.prom. 30 no.11:16-20 N '56. (MLRA 10:2)
(Calcium carbonate) (Sugar industry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUPSEV, S.S.; KUZIN, V.A.; NOVIKOV, V.A.; BORISOGLEBSKIY, B.N.

Pilot plant testing of the purification of diffusion juice by a suspension of colloidal calcium carbonate with the use of separators. Sakh. prom. 33 no.2:31-34 F '59. (MIRA 12:3)

1.Nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo mashinostroyeniya.
(Sugar research)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, S.S.; KUZIN, V.A.; NOVIKOV, O.P.; BORISOGLEBSKIY, B.N.

Comparative test data of industrial and pilot plant purification of diffusion juice. Sakh.prom. 33 no.7:76 Jl '59. (MIRA 12:11)

(Sugar manufacture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, S.S., prof.

Use of colloidal calcium carbonate for the purification of Kuban sugar beet juices. Sakh. prom. 36 no.12:9-11 D '62. (MIRA 16:6)

(Sugar manufacture)
(Calcium carbonate)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Kutsev, A. V. S.

Equilibrium investigation in the reduction reaction of titanium dioxide with carbon at high temperatures. I. V. S. Kutsev and B. P. Ormont (L. Ya. Karpov Phys. Chem. Inst., Moscow). *Zhur. Fiz. Khim.* 29, 697-701(1955).—The products of reduction of rutile and anatase mixt. with C (graphite) were studied in the temp. interval of 1650 to 2000°K., and at 160-800 mm. pressure by x-ray and chem. analysis, and used in phase identification. Under the conditions of reduction used, TiC_xO_y-C-TiO_2 were found to coexist. Ti_2O_3 was found in a product of reduction at 2000°K. and 700 mm. Hg, $TiO_{1.5}$ at pressures of 0.01-500 mm. Hg and at 1740-1850°K. The results markedly contradict results published in older Russian, German, and American investigations. W. M. Sternberg

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Kutsev, V.S.

7

6228 AEC-tr-1661
A METHOD OF INVESTIGATING EQUILIBRIA IN REACTIONS OF FORMATION OF CARBIDES FROM OXIDES AT HIGH TEMPERATURES. V. S. Kutsev, S. F. Orlova and V. A. Kazakova. Translation from Zhur. Fiz. Khim. 22, 229-34(1948). 7p.

A method of investigating the equilibria in the reactions of formation of carbides at high temperatures has been worked out. The method described allows experiments to be performed on amounts of up to 5 g thus giving enough material for subsequent analysis by chemical and x-ray methods. By comparison with the methods in the literature the precision of the measurements of the equilibrium pressure is increased by one order of magnitude. (auth)

Physico-Chem. Inst. im. L. Ya. Karpov, Moscow

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Kutsev, V.S.

1818 ASD-tr-2071

INVESTIGATION OF THE EQUILIBRIUM IN THE SYS[illegible] ZrO_2-C AT HIGH TEMPERATURES. V. S. Kutsev, I. [illegible] Orudov, and V. A. Esel'baum. Translated by V. Hoai[illegible] from Doklady Akad. Nauk S.S.S.R. 104, 647-70(1956). [illegible]

Reduction of ZrO_2 with C leads to the formation of a [illegible] carbide of composition ZrC_xO_y and not a carbide ZrC [illegible] usually indicated in literature. Under equilibrium con[illegible] tions in the temperature range 1400 to 2700°K and the [illegible] pressure range 150 to 1000 mm Hg an oxycarbide of t[illegible] composition $ZrC_{0.70}O_{0.30}$ is formed. The thermodynam[illegible] properties of the oxycarbide formed according to the [illegible] tion established are different from those ascribed to t[illegible] fictitious composition ZrC. Prescott's data, quoted i[illegible] manuals, for the heat and free energy of formation of [illegible] carbide (actually the oxycarbide) of zirconium are, in [illegible] principle, incorrect. This fact should be considered i[illegible] investigating carbide systems of this type and in using [illegible] thermodynamic values from manuals which refer to [illegible] stoichiometric composition. (auth)

PHY

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

GUREVICH, M.A.; KUTSEV, V.S.; ORMONT, B.F.; SMIRNOVA, V.I.; EPEL'BAUM, V.A.

Variable-composition phases in the chemistry of carbides.
Zhur.neorg.khim. 1 no.7:1578 Jl '56. (MLRA 9:11)

(Carbides)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, V.S.

18

4
4E2c

Construction of a Vacuum Electric Furnace with a Graphite Heater. V. S. Kutsev, B. F. Ormont, and V. A. Efel'baum. (Zavod. [illegible] 1956, 22, (2), [illegible]. [In Russian]. A graphite-element furnace for the study of high-temperature equilibria involving metal oxide reduction and carbide formation is briefly described. The design incorporates several advantageous features and enables temperatures of 2000° C to be obtained when working at 5-6 kW.

RG

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

KUTSEV, V.S.

SMAGINA, Ye.I.; KUTSEV, V.S.; ORMONT, B.F.

Quartz vacuum furnace with molybdenum and tungsten heaters for temperatures up to 3000°K. Zav.lab. 22 no.10:1249-1250 '56. (MLRA 10:5)

1.Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L.Ya. Karpova.

(Metallurgical furnaces)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

78-3-30/35

AUTHORS: Breger, A. Kh, Ormont, B. F., Kutsov, V. S., Viting, B. I. and Chapyzhnikov, B. A.

TITLE: The Use of Brake Radiation of a Betatron for Characterizing the Oxygen Content of Semi-Conductors and Metallic Materials (Particularly Titanium Oxy-Carbides). (Ob ispol'zovanii tormoznogo izlucheniya betatrona dlya kharakteristiki soderzhaniya kisloroda v poluprovodnikovykh i metallicheskikh materialakh (v chastnosti, v oksikarbidakh titana)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1957, Vol.II, Nr.3, pp. 696-699. (USSR)

ABSTRACT: This is a preliminary report on the development of a radio-activational method for determining non-metallic impurities in metals and semi-conductors. The possibility of determining oxygen in the system Ti-C-O from the reaction $O^{16}(\gamma,n)O^{15}$ with the use of brake radiation from a betatron has been demonstrated. Preliminary calibration curves for preparations with not less than 1% oxygen have been constructed. The method is non-destructive and requires about 10 min per

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78-3-30/35

The Use of Brake Radiation of a Betatron for Characterizing the Oxygen Content of Semi-Conductors and Metallic Materials...

determination. There is 1 figure and 7 references, of which 4 are Slavic.

ASSOCIATION: The Physico-Chemical Institute imeni L. Ya. Karpov. (Fiziko-khimicheskiy Institut im. L. Ya. Karpova.)

SUBMITTED: August 15, 1956.

AVAILABLE: Library of Congress.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

Distr: 4E4j/4E2c

27 The equilibrium in the high-temperature reduction of TiO_2 with carbon. II. V. S. Kutsev and B. F. Ormont. Yu. Ya. Karpov Phys. Chem. Inst. (Moscow). Zhur. Fiz. Khim. 31, 1900-70(1957); cf. C.A. 51, 3165.—The relation between x and y in the TiO_xC_y-C-CO system was investigated at 1880-2600°K. and at 20-760 mm. CO pressure. At higher temps. and lower pressures the equil. was displaced towards greater substitution of O by C. Pressure had less effect on the compn. at higher temps. A carbide of the stoichiometric compn. TiC was formed at 2700°K. and 950 mm. pressure. W. M. Sternberg

5
2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920011-0

20-2-44/62

AUTHOR: SHKODINA, Ye.I., [illegible], V.S., [illegible], A.F.,

TITLE: The Heats and Free Energies of the Formation of Zirconium Nitrides as Related to Composition and Structure. (Zavisimost' teplot i svobodnykh energiy obrazovaniya nitridov tsirkoniya ot sostava i stroyeniya -Russian)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 2, pp 354-357 (U.S.S.R.)

ABSTRACT: It is common in publications to consider zirconium nitride as a phase with constant composition and to ascribe to it formulae with various integer coefficients. According to that the data obtained from thermochemical and thermodynamic investigations of this subst nce were related to such a ZrN composition. In this paper the authors proved by methods of roentgen-and chemical-precision analysis that ZrN represents only a particular case. In this connection it was important to investigate the relation of the heat of formation to composition and structure of zirconium nitride. Zirconium with 1,[illegible] hafnium was used as starting material. Conclusions: 1. The dependence of heats and free energies of the formation of zirconium nitrides was investigated. In contrast to published data it was found that zirconium nitride represents a phase of variable composition with a wide region of homogenity. The authors could produce preparations in an interval between $ZrN_{1,0}O_{0,04}$ and $ZrN_{0,56}O_{0,02}$. Their heats and free energies of formation correspondingly vary from 90,7 to 57,5 Ccal/mol and from -81,1 to -52,3 Ccal/mol. 2. In spite of great variations of the composition, heats and free energies of nitrides, the lattice period

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