Some Cases of Reactions for the Redistribution of S/020/60/132/02/33/067 Radicals in Organic Lead, Tin, and Silicon Compounds B011/B002

 $(c_2H_5)_4$ Sn (I),  $(c_2H_5)_5$ SnR (II),  $(c_2H_5)_2$ SnR<sub>2</sub> (III),  $c_2H_5$ SnR<sub>3</sub> (IV), and SnR<sub>4</sub> (V). However, there will be no equilibrium in the developing mixture since (III), (IV), and (V) are no "symmetrical" compounds. Theoretically it is therefore probable that (III) - (V) will enter into side reactions during the redistribution of radicals, and besides tetraethyl tin will develop a series of substances with chains of metal atoms still longer and more ramified. Due to the decomposition of molecules, there will be no equilibrium in the mixture (I) - (V). In agreement with the above theory, the authors found out that 2-3 weight% of aluminum chloride or other catalysts of the radical redistribution, rapidly reduce the stability of hexaethyl diplumbane and hexaethyl distannane, also altering its decomposition mechanism (equations (B) and (V)). It was spectroscopically proven however, that the decomposition of these two compounds takes place according to equation (B) developing am intermediate product of diethyl lead, and diethyl tin respectively. During the disproportionation of hexaethyl distannane (but not of hexaethyl diplumbane) however, highlymolecular intermediate products develop between 70°-75° under the influence of AlClz. This is in agreement with the above-mentioned reaction mechanism. In this case the equilibrium is disturbed by the participation of reaction products in

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Some Cases of Reactions for the Redistribution of S/020/60/132/02/33/067 Radicals in Organic Lead, Tin, and Silicon Compounds B011/B002

side processes. This causes the formation of unstable products. The authors give further examples of publications on their statement (Refs. 3-8). The reaction between isopropylchloride and tetraethyl lead was not successful. Table 1 ences, 2 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research
Institute of Chemistry of the Gor'kiy State University imeni N. I.
Lobachevskiy)

SUBMITTED: February 15, 1960

Card 3/3

RAZUVAYEV, G.A.; DERGUNOV, Yu.I.; VYAZANKIN, N.S.

Reaction of tetraethyllead with halogenated hydrocarbons. Zhur. ob. khim. 31 no.3:998-1003 Mr '61. (MIRA 14:3)

1. Nauchno-issledovatel skiy institut khimii pri Gor'kovskom gosudarstvennom universitete imeni N. I. Lobachevskogo.

(Lead) (Hydrocarbons)

RAZUZAYEV, G.A.; VYAZANKIN, N.S.; DERGUNOV, Yu.I.; VYSHINSKIY, N.N.

Thermal decomposition of tetraethyllead, hexaethylplumbane, and their analogs. Part 5: Reactions of decomposition and disproportionation of hexaethyldistannane. Zhur.ob.khim. 31 no.5:1712-1717 My 161. (MIRA 14:5)

1. Nauchno-issledovatel skiy institut khimii pri Gor kovskom gosudarstvennom universitete imeni N.I.Lobachevskogo.

(Tin organic compounds)

RAZUVAYEV, G.A.; VYAZANKIN, N.S.; D'YACHKOVSKAYA, O.S.; KISELEVA, I.G.; DERGUNOV, Yu.I.

Certain reactions of organic compounds of elements of the group 1V catalyzed by aluminum chloride. Zhur.ob.khim. 31 no.12:4056 D '61. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete imeni N.I.Lobachevskogo.
(Organometallic compounds)

s/020/62/145/002/012/018 B106/B101

AUTHORS:

Razuvæyev, G. A., Corresponding Member AS USSR, Dergunov, Yu. I., and Vyazankin, N. S.

TITLE:

Homolytic reactions of organotin compounds with alkyl

halides initiated by peroxides

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 145, no. 2, 1962, 347-350

TEXT: The reaction of small amounts of benzoyl peroxide with binary systems from an organotin compound (tetraethyl tin, dimethyl-diethyl tin, hexaethyl distannane, triethyl tin chloride) and an alkyl halide (carbon tetrachloride, n-propyl bromide) in the absence of oxygen, was studied to prove that peroxides may initiate the reaction of organotin compounds with alkyl halides. In all cases, radical chain reaction set in at 75-80°C initiated by decomposition of benzoyl peroxide. The reaction of peroxide with the system tetraethyl tin - CCl4, which mainly yields triethyl tin chloride, ethylene, and chloroform, was studied in detail:  $R + (C_2H_5)_4Sn \longrightarrow RH + (C_2H_5)_3SnC_2H_4$  (R =  $C_6H_5COO$ ,  $C_6H_5$ ) (1);

Card 1/4

S/020/62/145/002/012/018 B106/B101

Homolytic reactions of organotin ...

 $(c_2H_5)_3 \operatorname{Snc}_2H_4 \longrightarrow (c_2H_5)_3 \operatorname{Sn}^2 + c_2H_4$  (2);  $(c_2H_5)_3 \operatorname{Sn}^2 + \operatorname{CCl}_4 \longrightarrow (c_2H_5)_3 \operatorname{Sncl}$  +  $\operatorname{CCl}_3$  (3);  $\operatorname{CCl}_3^2 + (c_2H_5)_4 \operatorname{Sn} \longrightarrow \operatorname{CHCl}_3 + (c_2H_5)_3 \operatorname{Sn}^2 \operatorname{CH}_4$  etc. (4); or:  $\operatorname{CCl}_3^2 + (c_2H_5)_4 \operatorname{Sn} \longrightarrow \operatorname{CH}_3 \operatorname{CH}_2 \operatorname{CCl}_3 + (c_2H_5)_3 \operatorname{Sn}^2 \operatorname{CH}_4$  etc. (4); is of minor importance as the  $c_2H_5 \operatorname{CCl}_3$  yield is small. The reaction mixture also contains ethane and traces of butane formed by disproportionation and dimerization of ethyl radicals which result from the reaction  $c_3H_5 \operatorname{COO}^2 + (c_2H_5)_4 \operatorname{Sn} \longrightarrow (c_2H_5)_3 \operatorname{Snococ}_6 \operatorname{H}_5 + c_2H_5^2$  (6). Reactions (6) and (1) take place together. Hexachloro ethane traces form by recombination of  $\operatorname{CCl}_3$  radicals (chain rupture). Triethyl tin chloride may be converted in the same way as initial tetraethyl tin since diethyl tin dichloride was also isolated from the reaction mixture. This was confirmed by the reaction between benzoyl peroxide and the system  $(c_2H_5)_3 \operatorname{SnCl} - \operatorname{CCl}_4$ . Peroxide caused no chain reaction with the tetramethyl tin -  $\operatorname{CCl}_4$  mixture. The reaction of hexaethyl distannane with  $\operatorname{CCl}_4$  initiated by peroxide was

Card 2/4

S/020/62/145/002/012/018 B106/B101

Homolytic reactions of organotin ...

complicated and yielded great amounts of chloroform and ethylene. The ethyl groups of hexaethyl distannane are affected by the trichloromethyl radicals and triethyl tin chloride and diethyl tin dichloride are formed. The tin-tin bond in  $(C_2H_5)_6\mathrm{Sn}_2$  is ruptured; it has still to be found out whether this process is homolytic or not. Reactions (1), (2), and (6) take place when benzoyl peroxide reacts with the system tetraethyl tin - n-propyl bromide. Reaction (3) is completely analogous to them (with  $C_3H_7\mathrm{Br}$  instead of  $\mathrm{CCl}_4$ ). The resulting propyl and ethyl radicals of Eq. (6) disproportionate according to the chain reaction  $\mathrm{R}^* + (C_2H_5)_4\mathrm{Sn} \longrightarrow \mathrm{RH} + (C_2H_5)_3\mathrm{Sn}^* + \mathrm{CH}_2=\mathrm{CH}_2$  (9);  $\mathrm{R}^* + \mathrm{CH}_3\mathrm{CH}_2\mathrm{CH}_2\mathrm{Br} \longrightarrow \mathrm{RH} + \mathrm{CH}_3\mathrm{CH}_2\mathrm{CH}_2\mathrm{Br} \longrightarrow \mathrm{CH}_3-\mathrm{CH}=\mathrm{CH}_2 + \mathrm{Br}^*$  (11) ( $\mathrm{R} = \mathrm{C}_2\mathrm{H}_5$ ,  $\mathrm{C}_3\mathrm{H}_7$ ). Studies of the decomposition of peroxide compounds in propyl bromide to confirm the courses of reactions (10) and (11) are described in a separate paper. There is 1 table.

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S/020/62/145/C02/012/018 B106/B101

Homolytic reactions of organotin ...

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ASSOCIATION: Nauchno-issledovatel skiy institut khimii pri Gor'kovskom

gosudarstvennom universitete im. N. I. Lobachevskogo

(Scientific Research Institute of Chemistry at the Gor'kiy

State University imeni N. I. Lobachevskiy)

SUBMITTED:

April 17, 1962

Card 4/4

S/081/62/000/022/027/088 B144/B101

AUTHORS:

Vyazankin, N. S., Razuvayev, G. A., Dergunov, Yu. I.

TITLE:

Effect of metallic lead and hexaethyldiplumbane on the

decomposition of stabilized tetraethyl lead

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1962, 228, abstract 22Zh244 (Tr. po khimii i khim. tekhnol. [Gor'kiy], no. 3,

1961, 652-655)

TEXT: A mixture of tetraethyl lead (III) and highly dispersed Pb was obtained from  $(C_2H_5)_3$ PbPb $(C_2H_5)_3$  (I) under the effect of 2-3% by weight of  $C_2H_4$ Br (II) ( $\sim 20^{\circ}$ C, 24 hrs). Decanted III, with an admixture of II (5-10% by weight of the initial amount) in another case a nonseparated mixture of II, III and Pb, was kept 4 hrs at 135°C, all contact between the reaction mixture and the air moisture being prevented. It has been found that II prevents the thermal decomposition of III, but that Pb weakens this effect considerably. For this reason additions of I to a mixture of III and II (% by weight of I and II: 3.1-8.6; 1.8-2.1,

Card 1/2

Effect of metallic lead and ...

S/081/62/000/022/027/088 B144/B101

respectively) caused III to decompose (135°C). The decomposition of III under the action of Pb is not accompanied by an accumulation of I as intermediate. [Abstracter's note: Complete translation.]

Card 2/2

RAZUVAYEV, G.A.; DERGUNOV, Yu.I.; VYAZANKIN, N.S.

Reaction of hexaethyldistamnane with halo derivatives. Zhur.ob.-khim. 32 no.8:2515-2520 Ag '62. (MIRA 15:9)
(Tin organic compounds) (Halides)

BAMBUANTS, COLOR VICIMENT, N.S., MINDHENY, Instant Charles V, le.M.

distributed respections of tetracing ten with propyl bronice.

Fig. An. Storter knime ro. 1882-282 My 162. (MTA 1725)

1. Con Revekty goodson vermy intreservation. N. Frotantavakogo.

UNANOV, G.; KURBATOVA, Ye.; KARAVAYEVA, S.; DERGUNOVA, A.

New standards for hogs and pork meat. Mias.ind. SSSR 33 no.3:18-20 (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel skiy institut myasnoy promyshlennosti.
(Pork industry-Standard:)

DEREUNEVA, A.I.

137-1958-3-4904

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 64 (USSR)

Dergunova, A. A.

Zinc Plants Production Indices for 1956 (Tekhniko-ekonomicheskiye AUTHOR:

pokazateli raboty tsinkovykh zavodov za 1956 g.)

TITLE: Byul. tsvetn. metallurgii, 1957, Nr 13, pp 29-38

Information, is presented dealing with the composition of Zn PERIODICAL: concentrates (ZC) at concentration plants (CP) of the USSR, the ABSTRACT:

specific gravity of ZC's from various CP's employed in the charge of processing plants, the extraction of ZnCd and Pb, as well as the production costs of Zn, and production indices of pyro- and hydrometallurgical reduction processing of ZC at various plants. It is noted that the 1956 conversion to the method of roasting ZC in a hoiling layer increased the content of soluble. In in the sinter by 2-3 percent ("Elektrotsink" and "Ukrtsink" plants), while the SO<sub>2</sub> content in ases increased up to 6.7 percent ("Elektrotsink"

plant). The least expensive Zn is manufactured at the "Elektrotsink" plant, while the most expensive Zn is produced

at the Belovsk plant.

GRATSERSHTEYN, Israil' Markovich; DERGUNOVA, A.A., red.; HERLOV, teldnn. red.

[Comprehensive utilization of metal ore in nonferrous metal industry]

Kompleksnoe ispol'sovanie rudnogo syr'ia v tsvetnoi metallurgii.

Moskra, Gos. nauchno tekhn. isd-vo lit-ry po chernol i tsvetnoi

metallurgii, 1958. 60 p. (MIRA 11:7)

(Nonferrous metal industries)

TYURYAKOV, A.F.; KUKHRANOVA, G.M.; TARUBAROV, I.G.; ZABELYSHNNSKIY, I.M.; DERGUNOVA, A.A.; KLEYMERHAN, D.A.

Results of administrative and economic activity in nonferrous metal industries in 1957; from annual reports. Biul. TSIIN tsvet. met. no. 7:30-36 158. (MIRA 11:7)

(Nonferrous metal industries)

KONAREVSKIY, A.A., starshiy nauchnyy sotrudnik; DERGUNOVA, A.A., starshiy nauchnyy sotrudnik; VASYAGINA, O.A., tekhnik

Development of modern standards of electric power consumption for the production of sausages. Trudy VNIIMP no.9:152-157 '59. (MIRA 13:8) (Sausages)

IAVROVA, L., kandidat tekhnicheskikh nauk; DERGUHOVA, A., mladshiy nauchnyy sotrudnik; POLETAYEV, T.; ZUBKOV, I.

Diagrams for salting hams by injection with a hollow needle. Mias. ind. SSSR 26 no.4:16-17 '55. (MERA 8:10)

1. Vseboyutnyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Dergunov and Poletayev). 2. Master 1-go klassa Moskovskogo myasokombinata (for Zubkov)

(Pork industry) (Meat--Preservation)

DERGUNOVA, A.A.: MIRONOV, A., professor, retsenzent; YERMAKOVA, Ye., inchener, retsenzent; MIRKIN, Kh., kandidat tekhnicheskikh nauk, spetsredaktor; IVANOVA, N.M., redaktor; YAROV, E.M., tekhnicheskiy redaktor

[Sausage casing production] Kishechnoe proizvodstvo. Moskva.

Pishchepromizdat, 1956. 103 p. (MIRA 10:2)

(Sausage casings)

ANFINOV, Apollon Mikolayevich, kend.tekhn.nauk; LAVROVA, Lidiye
Pavlovna, kand.tekhn.nauk; MANEMBERGER, Aloksendr Abramovich, prof.; MIRKIN, Yefin Yul'yevich, kand.tekhn.nauk.
Prinimali uchastiyo: SMCL'SKIY, N.T., inzh.; DERGUNOVA, A.A., inch.. NOVOSELOVA, L.V., red.; TARASOVA, N.M., tekhn.red.

[Technology of mest and mest products] Tekhnologiis missa i missoproduktov. Moskva, Pishchepromizdat, 1959. 593 p.

(MRA 13:1)

(Mest industry)

BARMASH, A.I., kand.tekhn.nauk; DERGUNOVA, A.A., starshiy mauchnyy sotrudnik; DYKLOP, V.K., kand.bilogicheskikh nauk; DUBROVINA, L.I., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B.; POLETAYEV, T.H.; V rabote prinimali uchastiye; LAVROVA, L.P.; POZHARISKAYA, L.S.; ZUYEVA, L.D.; KALITA, L.A.; NESLYUZOV, A.F.; GOL'DMAN, Ye.I.; MAKEYEVA, M.N.; STEFANOV, A.F.

Use of blood in sausage manufacturing and canning. Trudy VNI IMP no.9:63-74 159. (MIRA 13:8)

1. Vsesoyuznyy nauchnoy-issledovatel skiy institut myasnoy promy-shlennosti (for Lavrova, Pozhariskaya, Zuyeva, Kalita, Neslyuzov).

2. Spetsialisty Moskovskogo myasokombinata (for Gol'dman, Makeyeva, Stefanov).

(Blood as food or medicine) (Sausages)
(Canning and preserving)

DERGUNOVA, A.A.; UNANOV, G.S.; KURBATOVA, Ye.A.; KARAVAYEVA, S.G.

Standards for pork. Standartizatsiia 26 no.2:43-44 F '62.

(MIRA 15:2)

VOLOVINSKAYA, V.I. wand tokhn. nauk; RUBASHKINA, S.Sh., starshiy nauchnyy sotrednik, <u>DEEGUNOYA</u>, A.A., starshiy nauchnyy sotrudnik; SHCHEGOILVA, O.P., mladshiy nauchnyy sotrudnik; MERKULOVA, V.K., tekhnik; PAVLOV, D.V., kand. tekhn. nauk; MATROZOVA, S.I., kand. khim. nauk

Use of ascorbic ac.d, sodium ascorbinate and glutaminate in the production of sausages. Trudy VNIIMP no.11:76-86 '62. (MIAA 18:2)

1. Vsesovuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Volovinskaya, Rubad kina, Dergunova, Shchegoleva, Merkulova). 2. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for Pavlov, Matrozova).

DERGUNOVA, Aleksandra Aleksandrovna; PELEYEV, A.I., prof., retsenzent; MANERBERGER, A.A., prof., spets. red. KORBUT, L.V., red.

[Processing of guts] Obrabotka kishok. Moskva, Pishchevaia promyshlennost, 1965. 185 p. (EIRA 18:10)

BOL'SHAKOV, K.A.; DERGUNOVA, G.M. Solubility in the ternary system  $NaNO_3 - C_8NO_3 - H_2O$  at 25 and 50°. Zhur.neorg.khim. 5 no.1:209-213 Ja '60. (MIRA 13:5) (Sodium nitrate) (Cosium nitrate)

(MIRA 7:1)

LAVROV. V.V.; ARKHANGEL'SKAYA-LEVINA, M.S.; FEDOROV, D.N.; IOSSET, G.Ya.; SOSNYAKOV, N.G.; BERINGEE, Yu.V.; KOZACHINSKIY, R.M.; YELETSKAYA, O.I.; GOSHKINA, A.I.; MIKLASHEVSKAYA, A.V.; ZYKOV, A.A.; LEBETEV, M.F.; LERGUNOVA, K.S.; RYTSK, Z.A.; FREMKINA, D.Z.; TSIVIN, S.S.

In memory of A.M.Zabludovskii. Khirurgiia no.12:74-75 D '53.

(Zabludovskii, Anton Martynovich, 1880-1953)

15,2410

28875

**S/180/61/000/004/013/020** 

E071/E180

**AUTHORS:** 

Meyerson, G.A., Dergunova, V.S., Epelibaum, V.A.,

and Gurevich, M.A. (Moscow)

TITLE:

An investigation of some hard alloys of the

Boron-Silicon-Carbon system

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Metallurgiya i toplivo.

no. 4, 1961, 90-94

TEXT: The above system has, as yet, been insufficiently studied. For this reason the authors investigated three groups of alloys of the following types: alloys close to the zone of solid solutions based on SiC, alloys based on B4C, and alloys of the central part of the ternary B-Si-C system. In the latter, the points were chosen so as to overlap the zones in which previous investigators assumed the possibility of the existence of a ternary compound of the type  $B_{\mathbf{X}}Si_{\mathbf{Y}}C_{\mathbf{Z}}$ . Specimens of the alloys were obtained by hot pressing powder mixtures of the elements at 2000-2100 °C (no details of the preparation are given). Card 1/4

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An investigation of some hard alloys... 5/180/61/000/004/013/020
E071/E180

analysis of the specimens indicated that the sum of admixtures (Fe, Mg, Al, Ca) did not exceed 0.1%. Porosity did not exceed 2-5%, and density was uniform throughout the whole volume of the A prolonged high temperature annealing (50-100° below specimens. pressing temperature) brought the alloys to the equilibrium state with an increase in the grain size, but did not cause any changes in the chemical composition, or any increase in the porosity. The specimens were submitted to metallographic and X-ray analysis and microhardness measurements. The following conclusions are 1) A phase exists in the B-Si-C system with a melting temperature above 2100 °C and a very high hardness (about 7000 kg/mm<sup>2</sup> and above), noticeably exceeding the microhardness of boron carbide (5000 kg/mm<sup>2</sup>). (2) In specimens produced and treated in the described way, metallographic and X-ray analysis did not show the presence of any new phases in noticeable quantities, only solid solutions based on B4C, SiC and Si (the latter at an insufficient carbon content). The X-ray analysis indicated that the solubility of silicon (or siliconcarbide) is small in boron carbide (less than 2% if calculated on Si), but metallographic investigation suggested Card 2/4

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An investigation of some hard alloys. EQ71/E180

the presence of an apparently single phase up to 10-12% silicon. This can be explained by the separation of submicroscopically dispersed SiC particles on cooling. The microhardness of such grains, based on BaC, is 7000 kg/mm<sup>2</sup> and, in some cases reaches 8000 kg/mm<sup>2</sup>. 3) Grains of solid solutions based on SiC have a microhardness of 5000-5200 kg/mm2 instead of the 3500 of pure SiC. 4) The hardness of B-Si-C alloys changed little up to a temperature of 700-800 °C. For alloys based on B4C, the hardness of 6000-7000 kg/mm2 at 200 dropped to 3000 kg/mm2 at 800-900 oc and, for alloys based on SiC, from 4000-5000 kg/mm2 to 1500 kg/mm2. During these measurements, the formation of cracks was observed around the indentation in a number of cases, indicating that the actual hardness values could be higher. The work was carried out in the Kafedra redkikh metallov i poroshkovoy metallurgii (Department of Rare Metals and Powder Metallurgy) of the Institut tavetnykh metallov imeni M.I. Kalinina (Institute of Nom-ferrous Metals imeni M.I. Kalinin), in cooperation with the Fiziko-Khimicheskiy institut imeni L. Ya. Karpova (Physico-Chemical Institute imeni L.Ya. Karpov ).

Card 3/4

28875

An investigation of some hard alloys ... \$/180/61/000/004/013/020 E071/E180

There are 1 figure, 1 table and 4 references: 3 Soviet-bloc and 1 English. The English language reference reads as follows:

Ref.1: F. Ton. The quest for hard materials. Industrial and Engineering Chemistry. Industrial edition, 1938, 30, 232-242.

SUBMITTED: November 21, 1960

Card 4/4

L 10082-63 EWP(q)/EWT(m)/HIS-AFFTG--iD

ACCESSION NR: AP3001421

\$/0136/63/000/006/0058/0063

AUTHOR: Dergunova, V. S.; Kolomin, Yu. G.; Tseytlin, V. Z.

56

TIME: Investigation of sintered alloys of a Mrc-TaC system

SOURCE: Tsvetnyye metally, no. 6, 1963, 58-63 7

TOPIC TAGS: ZrC-TaC alloys, lattice parameters, solubility of components, room temperature microhardness, hardness at high temperatures, temperature coefficient of hardness, application, specific density

ABSTRACT: Eleven ZrC-TaC alloys, ranging from pure ZrC to pure TaC, were investigated. Mixtures of 90.13%-pure Ta, 96.0%-pure Zr, and C were compacted, sintered in hydrogen at 1400-2400C, crushed, and hot compacted in graphite dies at 2600--2700C under a pressure of 230 kg/cm sup 2. Alloys were then annealed at 2300C for 2 hr. X-ray diffraction patterns showed that the lattice parameter "a" increased linearly from 4.440 Angstrom for pure ZrC to 4.680 Angstrom for pur TaC, indicating the unlimited solid solubility of the components Microscopic examination also revealed only one phase in all alloys studied. Specific density increased continuously with increasing TaC content. Microhardness at goom temperature decreased continuously from approximately 2170 kg/mm sup 2 for alloys with approximately 10% TaC to approximately 1400 kg/mm sup 2 for alloys with 1/2

#### L 10082-63

ACCESSION NR: AP3001421

TaC. The hardness-composition curves at 450--1200C follow the same pattern as the of microhardness-composition at room temperature. The temperature coefficient of hardness at 700--1200C has the highest value in alloys with approximately 20% TaC and the lowest in alloys with 80--90% TaC. Alloys with 80--90% TaC also have the highest melting temperature and can be recommended for testing as structural materials for parts working at high temperatures in nonacidizing media. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 09Ju163

ENCL: OO

SUB CODE: 00

NO REF SOV: 005

OTHER: 001

Card 2/2

CCESSION NR: AT500	P(e) JU/4K/JG/6 1514	s/ s	(1000/64/000/001		
UTHOR: Dergunova, '	7. S.; Kostikov, V	4		50 811	
ITLE: Freparation	of zirconium horid				
OURCE: Konstruktsi ruction materials); 0-93	shorak trudiv, a	) I, MOBCIW,	120-A0 Wei (11)		
OPIC TACS: refract	or: betal, boron a	loy, vacum	refining, sircon	lum, <u>harden-</u>	
BSTRACT: The borld compounds for corros of these properties	ion resistance, in	poiblity as	compounds for cr	eating flre	
roof and refractory	materials The avorage produced whe	uthors studio mail enoun	ts of boroz oxidenthod. The in	e are added	

1, 38089-65 ACCESSION NR: AT5003514 1.17 T10 and 0.12% Al<sub>2</sub>03; industrial boson carbide containing 74.16% B, 23 41% Comb, 1.3% Si and 0.7% Fe; chamically pure borch axide; lamp black. It in shown that the addition of B<sub>2</sub>O<sub>2</sub> to the charge improves the quality of the product when producing ZrB<sub>2</sub> by the termal vacuum method according to the reaction 2ZrO2+B4C+30-2zrB2+4CO1. The optimum quantity of loron oxide to be added to the charge is 7.5%. It is show that in carrying out the process in a TVV-4 furnace using industricity pure materiels, it is possible to produce large batches of pure ZrB2 without additional purification. Orig. art. has: 2 tables. ASSOCIATION: none SUB CODE: MM ENCL 00 SUBMITTED: 20Dec63 OFFER: 002 005 NO REP SOV: Card 2/2

ACCESSION NR: AT560  5  5 Pe-4/Pt-10/Pu-4 JD/WV/JG/GS/kT/WH AUTHOR: Dergunova, W. s.; Finkel shreym, G. B.;	S/0000/64/000/001/0094/0098
TTIE: Producing titanium and zirconium nitride	
OUNCE: Konstruktsionnyye uglegrafitonyye mater runtion materials); sbornik trudov, nd. 1. Mosc	ialy (Carbon and graphite come-
04-98 OPEC TAGS: refractory metal, pitriling, superco	, <b>d</b>
ltanium compound, zirconium compound	The state of the s
STRACT: Nitrides of the transition setals in the periodic system of elements have high melting all and thermal stability. This has make it possesses	g points as well as high chemi- sible to use them as fireproof-
ing materials and refractories of the relatively like metallic type, and the capacity of the nitriculting state gives good prospects for using the	des to pass over to the supercon-

1 38088-65 ACCESSION NR: AT5003515

automation. Direct noticing of metal owders and pitriding of metal oxides mixed with carbon black are the most promisin methods for industrial use. In this article the authors studied the conditions for producing TiN and ZrN from oxides, and investigated methods for removing carbon and do ygen from the obtained nitrices. The initial materials for the restarch were: industrial titanium dioxide /5 containing 0.13% Fe<sub>2</sub>0<sub>3</sub>, 0.16% Ai<sub>2</sub>0<sub>3</sub>, 59 [Ti; industrial zirconium dioxide containing 2.7% SiO<sub>2</sub>, 1.1% TiO<sub>2</sub>, 0.12% Al<sub>2</sub>0<sub>3</sub>; lemp blick fired at 400°C. It is established that it is possible to improve the chemical composition of titanium and zirconium nitrides produced by pitriding the corresponding oxides mixed with carbon black, firing them in nitrogen. It is shown that it is preferable to use an excess of carbon in comparision with that required for the reaction Me(H-1/2N<sub>2</sub>+C-Me(N+CO)) when producing titalium nitrid. Orig. art. has: 3 figures,

ASSOCIATION: none

1 table.

SUBMITTED: 20Dec63 ENGL: (IO SUB CDDE: IC, MM

NO REF SOV: 005 OTIER: 002

_ 41064=65			0/023/M004/M0	04 35 13
OURCE: Ref. zh. Kluraiya, Alis	3 23M81			
UTHOR: Dergunova, V.S.; Ken	itikov, V.I.			
TILE: The synthesis of zircon!	um boride			
RTED SOURCE: S5. Konstruktii 1954, 90-93	. uglegrafit. ma	erialy No. 1	M., Metallurgiy	
COPIC TAGS: zircomium boride,	zirconiwa dioxi	de, Boron trioxi	de, beron carbid	le
FIANSLATION: The suthers deliving the preparation of $ZxB_2$ by $ZZxO_2 + B_4C + 3C = 2UxB_3 + 4C$	O, When the	ne process was c	arrie out in a I	(VV-4
iurnace, it was forad to be possi materials of technical purity with references. From the suthors	ble to obtain larg hout supplements	n nrepritions of	bille glas mom	DIMY PITTE
	CODE: IC	対象を発われております。		4. 第二次: 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19

L 32937-66 EWP(	(k)/EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) AT/WH/JD/JG/WB/JT
ACC NR: AP601993	SOURCE CODE: UR/0122/66/000/006/0063/0065
(Engineer); Yerma	a, V. S. (Candidate of technical sciences); Komissarov, G. K. kova, M. P. (Engineer); Kuznetsov, L. I. (Engineer); Gol'denberg, of technical sciences)
ORG: none	57
TITLE: Metal ce	ramic alloy for work at elevated temperatures
	mashinostroyeniya, no. 6, 1966, 63-65
titanium carbide	containing alloy, boron carbide containing alloy, silicon carbide alloy oxidation, alloy thermal fatigue
were compacted at	th ternary alloys containing 40.8.—60% TiC, 20—39.2% B <sub>4</sub> C, and 20% SiC 2100—2150C under a pressure of 230 kg/cm <sup>2</sup> , diffusion annealed at in an argon atmosphere, cooled at the rate of 100C/hr, and tested esistance and thermal fatigue. Oxidation-resistance tests made on
alloys oxidized i	in air at 900C for 20 min, 1.5 hr, 3.5 hr, 10 hr, and 15 hr showed tensive oxidation, accompanied with oxide film formation, occurs in od of the exposure and practically ceases after 5-hr exposure. All he be regarded as oxidation resistant since their weight gain in 15-hr
tested alloys car	i be regarded as Oxidacton resistant since oners and
Card 1/2	UDC: 621,76?

#### L 32937-66

ACC NR: AP6019932

tests was only 4-6 mg/cm², which is 3.5 times lower than the weight gain of TiC under identical conditions of oxidation. The thermal fatigue resistance was evaluated from the number of quenches from 1200 and 2000C sustained by alloy specimens before failure. In quenching from 1200C, the investigated alloys sustained 40 thermal cycles without failure, which was double the number of thermal cycles sustained by TiC and  $\gamma$  20 times as many as an alloy containing 85% SiC + 15%ByC sustained. Hence, titanium, boron—and silicon carbide—based alloys can be recommended as material suitable for making parts operating at high temperature under conditions of frequent temperature changes. Orig. art. has: 4 figures and 2 tables. [ND]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 006/ ATD PRESS: 5027

Card 2/2 2 2

ACC NR: AP7002845

SOURCE CODE: UR/0136/66/000/012/0084/0086

AUTHOR: Dergunova, V. S.; Timonin, P. L.; Kuzin, A. N.; Tseytlin, V. Z.

ORG: none

TITLE: Properties of tantalum diboride-zirconium diboride alloys containing

SOURCE: Tsvetnyye metally, no. 12, 1966, 84-86

TOPIC TAGS: alloy composition, hardness, porosity, metal melting, containing alloy, tantalum base alloy, boride, zirconium base alloy

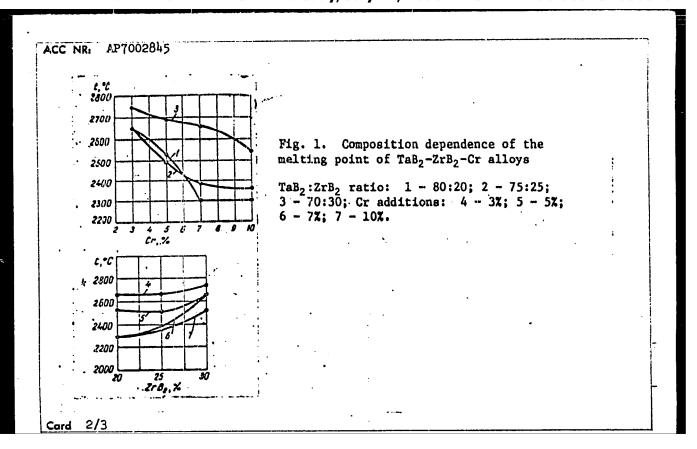
chromium

#### ABSTRACT:

TaB<sub>2</sub>-ZrB<sub>2</sub>-Cr alloys containing 20, 25 and 30% of ZrB<sub>2</sub> and 3—10% Cr were obtained from ZrB<sub>2</sub> (79.6% Zr, 19.67% B, 0.01% C) TaB<sub>2</sub> (89.18% Ta, 9.97% B, 0.01% C) and 99.9%—pure Cr powders by compacting at 2100—2200C under a pressure of 220 kg/cm<sup>2</sup> and homogenization at 2000C in an argon atmosphere. Depending on the composition, the porosity of alloys varied from 0.5 to 3—4%. The alloys consisted mainly of a solid solution of zirconium boride in tantalum boride with a microhardness of 2900—3300 kg/mm<sup>2</sup>, and a solid solution of chromium boride in tantalum boride with a microhardness of 1000—1200 kg/mm<sup>2</sup>. In addition, fine grains of a third phase,

**Card** 1/3

UDC: 669.294/296



ACC NR: AF7002845

probably chromium boride, were observed along the second phase grain boundaries. The composition dependence of the melting temperature of TaB<sub>2</sub>-ZrB<sub>2</sub>-Cr alloys is shown in Fig. 1. Increasing the chromium content from 3 to 10% lowered the strength (hardness) of the alloys both at room and at elevated temperatures, but increased their oxidation resistance. Orig. art. has: 5 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 005/ ATD PRESS: 5113

**Card** 3/3

DERGUZOV, V.I.; YAKUBOVICH, V.A.

Existence of solutions to linear Hamiltonian equations with unbounded operator coefficients. Dokl. AN SSSR 151 no.6:1264-1267 Ag '63. (MIRA 16:10)

1. Predstavleno akademikom V.I.Smirnovym.

#### DERGUZOV, V.I.

Stability of solutions to Hamiltonian equations in Hilbert space with unbounded periodic operator coefficients. Dokl.

AN SSSR 152 no.6:1294-1296 0 '63. (MIRA 16:11)

1. Predstavleno akademikom V.I. Smirnovym.

DERGUZOV, V.I.; FOMIN, V.N. (Leningrad):

"Mathematical analysis of the dynamical stability of elastic systems with infinite degrees of freedom."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

<u>L 40806-65</u> Ext(d) IJP(c) ACCESSION NR: AF 4042913 E/00 19/64/064/003/0419/0435

8

AUTHOR: Derguzov V. I. (Legingrad)

В

TIPLE: Conditions sufficient for stability of the <u>lamilton equations</u> with unlimited periodic operator coefficients

SOURCE: Matematicheskiy sbornik, v. 64, no. 1, 1964, 419-435

TOPIC TAGS: stability condition, Hamilton equation, periodic operator coefficient

ABSTRACT: The author considers the Hamilton equation

 $J \frac{dx}{dt} = H(t)x$ 

in the complete complex separable Hilbert space W. J is the limited anti-Hamiltonian operator (J\*=-J), H(t) is the unlimited symmetric T-periodic operator satisfying certain conditions. Conditions sufficient for the stability of the Hamilton equation are obtained. The main result consists in the following theorem: Assuming that there is a continuously increasing, strongly stable curve H(t,s),

Cord 1/2

L 40306-65 ACCESSION NR: AP4042913		0
0.4S≜1, then the equation	$J\frac{dx}{dt} = (H_0(t) + \widetilde{H}(t))x$	
is strongly stable for any o	perator Ĥ(t)€M which	satisfies the inequality
	$H(t, 0) \leqslant \widetilde{H}(t) \leqslant H(t, 1)$	
Orig. art. has: 18 equations		일본 나는 이 살았다면 된 전 이를 만나
ASSOCIATION: None		
SUBMITTED: 08Ju163	ENCL: 00	SUB CODE: MA
NR REF SOV: 007	OTHER: 002	
Δ; card 2/2		

ACCESSION NR: AP4033685

5/0039/64/063/004/0591/0619

AUTHOR: Derguzov, V. I. (Leningrad)

TITLE: Stability of solutions of Hamilton equations with unbounded periodic operator coefficients

SCURCE: Matematicheskiy sbornik, v. 63, no. 4, 1964, 591-619

TOPIC TAGS: Hamilton equation, periodic coefficient, operator coefficient, separable Hilbert space, solution stability, periodic operator, finite dimensional space

ABSTRACT: This is an extension of work by M. G. Kreyn (Osnovny\*ye polozheniya teorii \(\lambda\)-zon ustoychivosti kanonicheskoy sistemy\* lineyny\*kh differentsial ny\*kh uravneniy s periodicheskimi koeffitsiyentami. Sbornik pamyati A. A. Andronova, Moskva, Izd. AN SSSR, 1955), who investigated the finite-dimensional case of the problem in this paper. The present author obtains sufficient conditions for strong stability of solutions of the Hamilton equation

 $J\frac{dx}{dt} = H(t)x$ 

(1)

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(2)

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ACCESSION NR: AP4033685

in complete complex separable Hilbert space W. Here J is a bounded (together with its inverse) anti-Hermitian operator, H(t) is an unbounded symmetric operator of period T which can be represented in the form  $H(t) = H_0(t) + H_1(t)$ , where  $H_0(t)$  is a positive definite operator and H<sub>1</sub>(t) is some subordinate addition. Certain restrictions are imposed on the coefficients of equation (1). In view of the unboundedness of the operator H(t), the stability conditions are somewhat different from those of Kreyn. The author indicates reasons for using the non-standard  $\||F|^{\frac{1}{2}}H_0^{\frac{1}{2}}(0)x(t)\| \leqslant C \||F|^{\frac{1}{2}}H_0^{\frac{1}{2}}(0)x(0)\|.$ definition

of stability of (1) and shows why it is reasonable. He motivates the following: An operator Z(t), satisfying only the relation  $Z'(T) = F_t$  where  $F = -iH_0^{-1/2}$  (0)  $J_{\rm H_0}^{-1/2}(0)$  is a bounded symmetric operator and its inverse  $F^{-1}$  is unbounded and is called an F-unitary operator. He studies F-unitary operators, indicating an example which shows that an F-unitary operator Z(t) may not have a spectrum of mixed type and the collection of its integral powers is unbounded. Determination of the type of points of the spectrum of the operator Z(T) is analogous to the case of finite-dimensional space W and is given in the paper. It is shown that the F-

APPROVED FOR RELEASE: Thursday, July 27, 2000

ACCESSION NR: AP4033685

unitary operator Z(T) is similar to the bounded operator  $Y(T) = |F|^2 Z(T) |F|^{\frac{1}{2}}$ . Here  $|F|^2 = \int V |\lambda| dE_{\lambda}$ ,  $E_{\lambda}$  is the decomposition of a unit of the operator  $F_{\bullet}$ . If Z(T)

does not have a spectrum of mixed type, then the collection of integral powers of of the operator Y(T) is bounded. This assertion is equivalent to the estimate (2). Thus equation (1) is stable if for all of its generalized solutions x(t), the estimate (2) is satisfied. If also all equations (1) are stable for small changes of the operator  $H_1(t)$ , then (1) is called strongly stable. The operator Y(T) is

G-unitary, where the symmetric operator G is determined by the operator F. If Z(T) does not have a spectrum of mixed type, then neither does Y(T). The reverse assertion is not true. The author shows that for strong stability of (1), it is sufficient that the operator Y(T) not have a spectrum of mixed type. The latter is the basic result of the paper. Orig. art. has: 77 formulas and 2 figures.

ASSOCIATION: none

SUBMITTED: 23Mar63

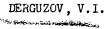
DATE ACQ: O7May64

ENCL: 00

SUB CODE: MA

NO REF SOV: 005

OTHER: 003



Necessary conditions of strong stability of Hamiltonian equations with unbounded periodic operator coefficients. Vest. IGU 19 no.19: 18-30 '64. (MIRA 17:11)

GALDINA, N.M.; DERI, Atilla [Déri, A.]

Manufacture and service of "korvishit", a corundum refractory material, in Hungary. Stek. i ker. 19 no.6:41-44 Je '62. (MIRA 15:7)

(Hungary--Refractory materials)

DERI, Erno, tanar; HAVEL, Jeno, tanar; KATONA, Mihaly

Trade-union political schools in 1963-64. Munka 14 no.3: 22-23 Mr 164.

- 1. Szakszervezetek Orszagos Tancsa Iskolaja (for Deri and Havel).
- 2. Szakszervezetek Orszagos Tanacsa kulturalis osztalya (for Katona).

DERI, Erno, tanar

Structural changes in the working class. Munka 15 no.3:5-9 Mr 165.

1. School of the Central Council of Hungarian Trade Unions, Budapest.

#### DERI, Ernone

Women and peace. Munka 14 no. 2: 4-5 F 164.

l. Szakszervezetek Orszagos Tanacsa szervezesi osztalya munkatarsa.

t

BATSANOV, S.S. (Novosibirsk); DEREBAS, A.A. (Novosibirsk)

Effect of an explosion on matter. Structural changes in neodymium oxide. Nauch.-tekh. probl. gor. i vzryva. no.l: 103-108 '65. (MIRA 18:9)

DERIBAS, A.A., kand.flz.-matem.naul:

Theoretical and practical problems of explosion; session in Novosibirsk. Vest. AN SSSR 35 no.7:80-82 J1 165.

(MIRA 18:8)

BATSANOV, S.S.; BLOKHINA, G.Ye.; DERIBAS, A.A.

Effect of explosion on a substance. Structural changes of boron nitride. Zhur. strukt. khim. 6 no.2:227-232 Mr-Ap '65. (MIRA 18:7)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR i Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR.

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00031021

<u>L 45296-66</u> EWT(in)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AR6017491

SOURCE CODE: UR/0137/66/000/001/1003/1003

AUTHORS: Derid, O. P.; Radautsan, S. I.

TITLE: Phase diagram of alloys in the system IngTen -- IngSen

SOURCE: Ref. sh. Metallurgiya, Abs. 1119

REF SOURCE: Sb. Materialy dokl. 1-y Mauchno-tekhn. konferentsii <u>Kishinevsk.</u> nolitekhn. is-ta. Kishinev, 1965, 68-59

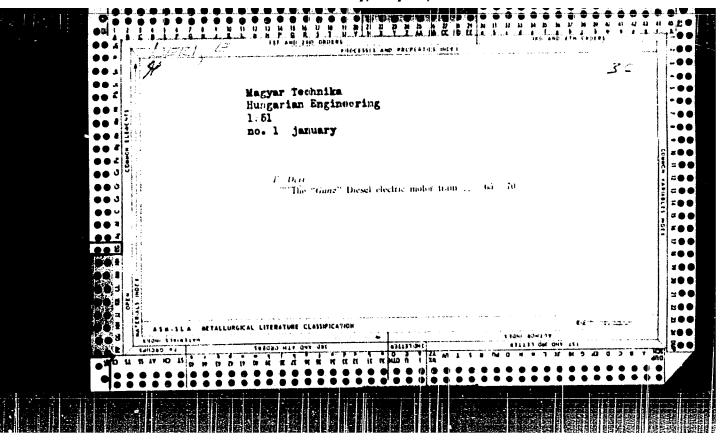
TOPIC TAGS: indium, tellurium, selenium, indium containing alloy, tellurium containing alloy, selenium containing alloy, alloy phase diagram

ABSTRACT: Methods of microscopic, x-ray, and thermal analysis, as well as measurements of microhardness, were used to study and construct the phase diagram for a pseudobinary section of In<sub>2</sub>Te<sub>3</sub> -- In<sub>2</sub>Se<sub>3</sub> in the system of In-Se-Te. The dependence of Se solubility in In<sub>2</sub>Te<sub>3</sub> on the temperature was ascertained, and the ordered state of defects in the solid solutions based on In<sub>2</sub>Te<sub>3</sub> was determined. Z. Rogachevskaya. Translation of abstract/

SUB CODE: 11

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ume: 669.87177176.017.13



DERI, E.

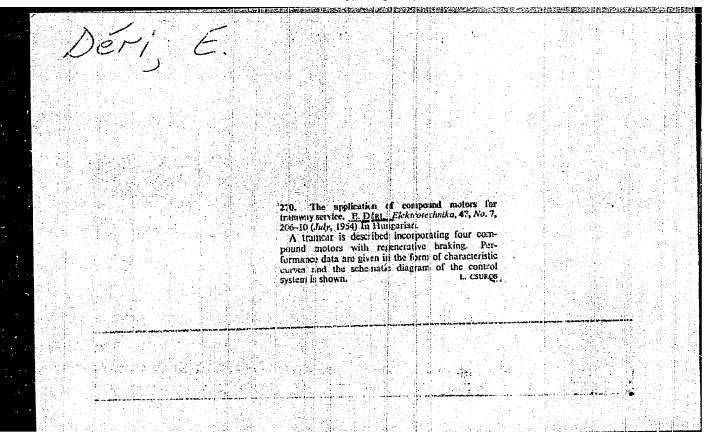
"The Soviet diesel-electric locomotives" p. 241, (GEF, Vol. 5, no. 6, July 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

DERI, E.

"Main-line locomotives and motor locomotives in the Soviet Union." p. 552. (Magyar Technika, Vol. 8, no. 9, Sept 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl



DERT, E.

Modern Hingarian diesel-electric locomotives. p. 225. JARYNVIN MEZCGAYDASAGI GEPLK. Vol. 2, no. 8. Aug. 1955.

Budapest.

SCURCE: East Europeans Accessions List. (ELAL) IC, Vol. 5, no. 2, 1956. Feb.

DERI, E.

DERI, E. Modern Hungarian diesel-electric locomotives. p. 409

Vol. 5, No. 11, Nov. 1955 Budapest, Hungary KOZLEKEDESTUDOMANYI SZEMLE

SO: Monthly List of East European Accession, (REAL), LC, Vol. 5 No. 3, March, 1956

DERI, E.

Current questions of railroad electrification in the Soviet Union. p. 83. MOZIEKEDESTIONANYI STEMLE. (Kozlekedesi Klado) budapest. Vol. 6, no. 3, Mar. 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

VAJKAI, Janos; DERI, Ferenc

Phenmatic transportation in foundries. Munkavedelem 8 no.7/9:13-16 '62.

DERI, I. [D5ry, I.]; GERI, I.; SABO, G. [Szahó, G.]; OPOTSKI, P. [Oposzky, P.]

Synthesis of progesterone from erosterin, Med.prom. 13 no.10:14-20 0 159. (MIRA 13:2)

1. Zavod farmatsevticheskikh i khimicheskikh preparatov "Khinoin" (Budapesht) i Institut organicheskoy khimii Tekhnicheskogo universiteta (Budapesht).

(ERGOSTEROL) (PROGESTERONE)

DERI, J.

DERI, J., FELFOLDI, L. : JAKAB, I.

"Mechanization of Loading Trucks", P. 264. (KOZLEKED ESTUDOMANYI SZEMIE, Vol. 4, No. 7/8, July/Aug. 1954, Eudapest, Hungary)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

An irregular	conference	on production.	Ujit lap 12 no.22:10	
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351.31 S/081/62/000/004/049/087 B150/B138

21,2000

AUTHOR:

Déri, Marta.

TITLE:

Ceramic materials for atomic reactors

PERIODICAL:

Referativnyy Zhurnal. Khimiya, no. 4, 1962, 380, abstract 4K219 (Épitőanyag, v. 13, no. 4, 1961, 121-133)

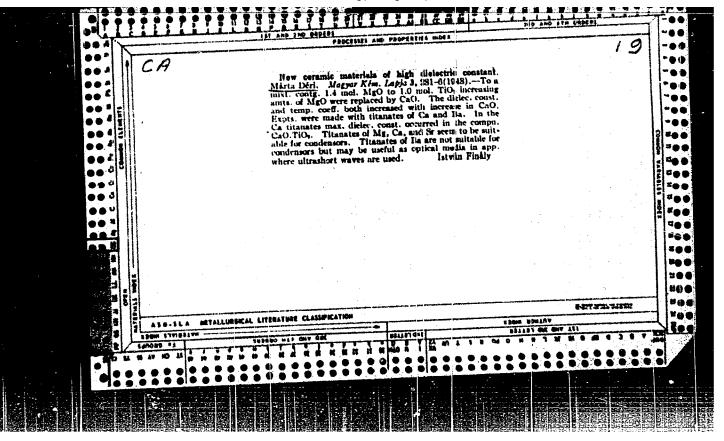
TEXT: From a study of the processes taking place in atomic reactors, specifications for ceramic materials are set out. Information is given on the production and technology of these materials. As heating elements ceramic materials can be used which are based on UO2 and UC, on powders of these substances in a metallic bond, and also based on ThO2. Moderator ceramics may be made from BeO, Be2C and from graphite. For regulating and protective purposes ceramic articles can be used, which are made from the oxides of the rare-earth metals (Sm, Eu, Gd, Dy) and sintered HfO2 and HfC, and also from B4C and BM. Among the structural materials for

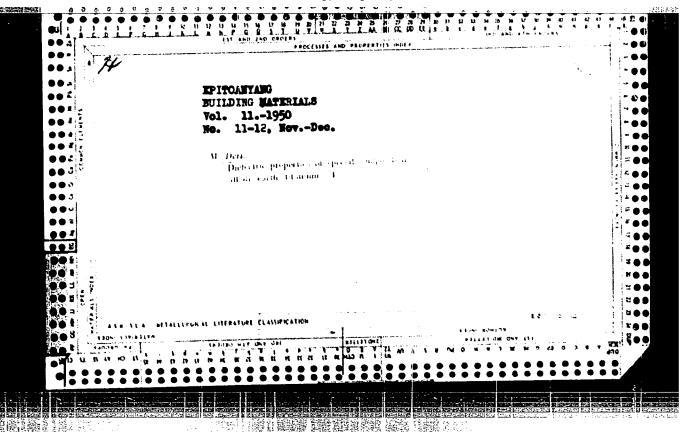
reactors mentio					
neand animares	On Ref. 250 en	arbides and artic	es and articles made from oxide 2. In all cases the basic parameters		
of the producti	ion technology of	f these articles			
conditions of moderate complete transl	molding and sinte	ering, etc.) are	given. [Abstracter's note:	ا ا	
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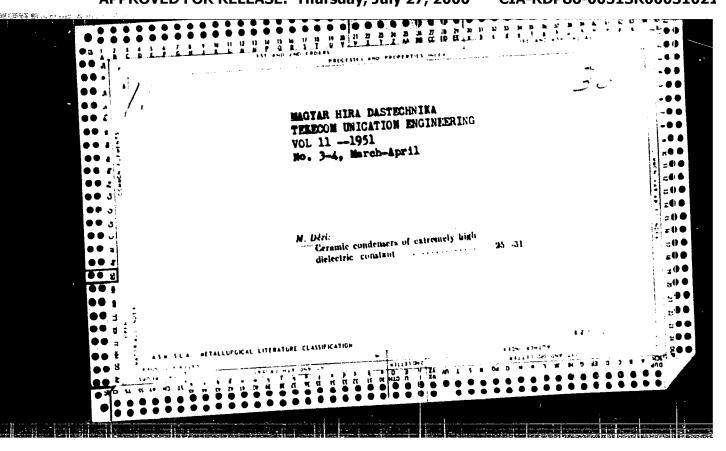
#### DERI, Marta

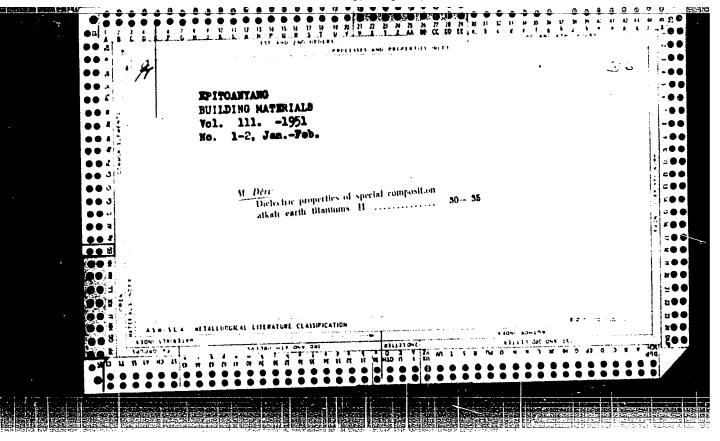
"Encyclopedia of iron metallurgy." Vol.III/1: "Refractory building materials of iron metallurgy" by Laszlo Szabo. Reviewed by Marta Deri. Magy kem folyoir 69 no.12:563-564 D'63.

"Encyclopedia of iron metallurgy" Vol. III/2:"Refractory building materials of iron metallurgy "by Janos Sovegjarto. Reviewed by Marta Deri. 564









DÉRI, M.

Hungarian

CA: 47: 10966

with S. LENGYEL, E. ZOLD, and D. DOBOS

Tech. Univ., sudapest

"Effect of ions on the density of water in aqueous solutions of electrolytes." Acta Chim. Acad. Sci. Hung. 3, 13-45 (1953) (English summary)

DERI, M.

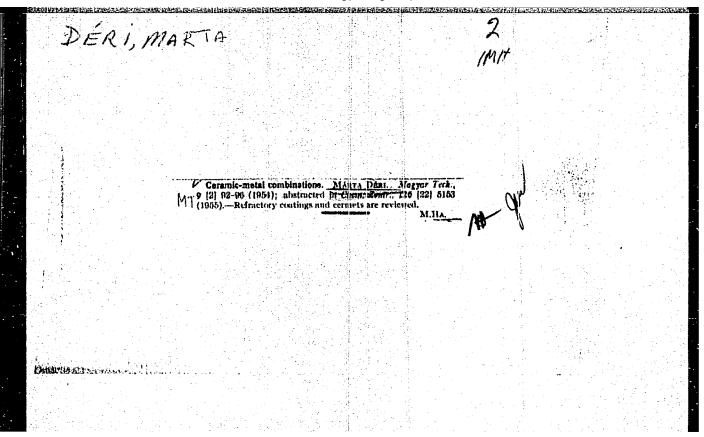
"Ceramic semiconductors." p. 178. (Epitoanyag, Vol. 5, no. 5, May 53, Eudapest)

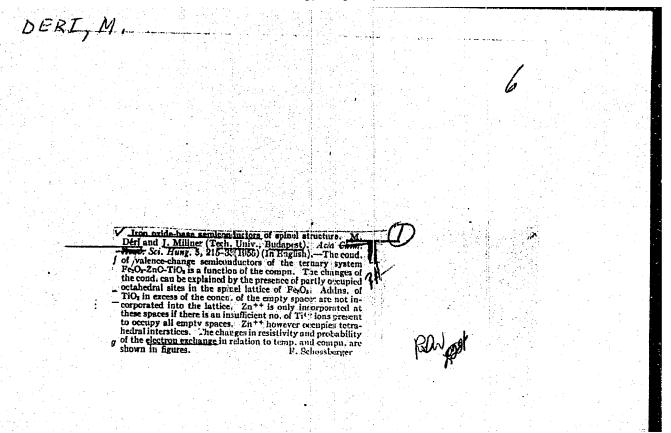
SO: Monthly List of Fast European Accessions. Vol 3 No 2 Library of Congress Feb 54 Uncl

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MRI, K.; LIHWR, J.
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"Semiconductors of Spinel with A Base of Iron Chile", F. 109, (ISTECANY.G, Vol. 6, No. 4, April 1954, Bulapest, Hungary)

CC: Forthly list of East Furopean Accessions (EEAL), 10, Vol. 4, Vo. 3, March 1955, Uncl.





Deri, Marta

Hungary /Chemical Technology. Chemical Products I-12

and Their Application

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31542

Author : Deri Marta

Title : Piezoelectric Properties of Ceramic Materials

Orig Pub: Epitoanyag, 1955, 7, No 6, 207-210

Abstract: No abstract.

Card 1/1

#### DERI, Marta

"Surface properties of silicate glasses" by Gyorgy Koranyi. Reviewed by Marta Deri. Magy kem lap 16 no.4:164 Ap '61.

KORACH, M.; DERI, M.; SASVARI, G.; MOLDVAI, A. S.; PRAGER, I.; ACKERMANN, L.; SZEBENYI, I:

Examination of the Hungarian fly ashes; fly ash as raw material. Periodica polytechn chem 5 no. 4:341-356 '61.

1. Lehrstuhl für Chemische Technologie, Technische Universität.

DERI, Marta, dr.

Technical ceramics. Muss elet 16 no.25:11 D '61.

DERI, Marta, dr.

"Chemical indicators" by Eva Banyai. Reviewed by Dr. Marta Deri. Magy kem lap 17 no.1:46 Ja 162.

(Indicators and test papers) (Banyai, Eva)

DERI, M. (Budapest XI., Gellert ter 4)

"Nuclear forces and the few-mucleon problem; proceedings of the International Conference held at University College, London", edited by T.C. Griffith and E.A. Power. Reviewed by M. Deri. Periodica polytechn chem 5 no.4:357 '61.

1. Lehrstuhl für Chemische Technologie, Technische Universität.

DERI, M. (Budapest XI., Gellert ter 4)

"Applied gamma ray spectrometry", edited by C.E. Crouthamel. Reviewed by M. Deri. Periodica polytechn chem 5 no.4:357

l. Lehrstuhl für Chemische Technologie, Technische Universität.

DERI, Marta, dr.

Cermet: a new ceramic substance. Elet tud 18 no.14:423-426 7 Ap 163.

DERI, Marta, dr.

Correlations between the structure and electrical properties of titanium dioxide containing polycrystalline a miconductors and dielectrics. Veszprem vegyip egy kozl 7 no.41337-326 163.

1. Chair of Silicate Chemistry of the Chemical Industry University, Vec(x) .

DERI, Marta, dr.

New achievements in the research of oxide ceramics. Epitoanyag 16 no.6:201-207 Je 164.

1. Chemical Industry University, Veszprem; editorial board member, "Epitoanyag."

DERI, Marta, a muszaki tudomanyok doktora

State of the research in ceramic dielectrics and semiconductors. Kem tud kozl MTA 21 no. 4:431.453 164.

1. Chair of Silicate Chemistry, Chemical Industry University, Veszprem.

# DERI, R.

"Revision of producers' prices in the state-owned furniture industry." p. 115.

FAIPAR. (Faipari Tudomanyos Egyesulet). Budapest, Hungary. Vol. 9, No. 4, Apr. 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959 Uncla.

BOTKA, Zoltan; DERI, Richard

Experiences with the producer's price system in the furniture industry during the past half year. Faipar 11 no.12:376-381 D \*59.

## DERI, Robert

The Budapest Petofi Sports Club for the Kilian movement; Munka 11 no.10:26-27 0 '61.

1. Budapesti Petefi Sport Klub elnoke.

DERI S.

"Noise of Audio-Frequency Amplifiers" p. 84 (Radiotechnika, Vol. 3, No. 4 April, 1953, Budapest)

East European Vol. 3, No. 3

So: Monthly List of March Accessions, Library of Congress, March (1973, Uncl.

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"Vacuum Tube Voltmeters", p. 267

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