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1,	VEKSHEGONOV, V.YA.; PATRIKEY, N.M.
2.	USSR (600)
4.	Windbreaks, Shelterbelts, Etc.
7.	Renew and extend shelterbelts according to plan. Les.i step' 4 no.10, 1952.
9.	Monthly List of Russian Accessions, Library of Congress, <u>January</u> 1953. Unclassified.
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1.	VEKSHEGONOV, V.Ya.
2.	TISSR (600)
կ.	Afforestation
7.	Improving over-all mechanization in alforestation work, Les.khoz. é no. 3, 1953.
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9.	Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unclassified.
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1.2.	VEKSHEGONOV, V.Ya. USSR (600)	
ц. 7.	Agricultural Machinery Improving over-all mechanization in afforestation work, Les.khoz. 6 no. 3, 1953.	
	. Monthly List of Russian Accessions, Library of Congress, <u>APRIL</u> 1953, Unclassifie	

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AUTHOR: Vekshin, B	S.
DRG: None	
	implementing a method of reverse pressing with lateral hydrostatic piece. Class 7, No. 181601
50URCE: Izobreteni	a, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 15
POPIC TAGS: metal	ressing, hydrostatic pressure
reverse pressing wi made for outlet of	or's Certificate introduces a stamp for implementing a method of h lateral hydrostatic pressure on the workpiece. Provision is the fluid from the working region and for maintaining the necessary are by a compensation cavity in the punch with a calibrated channel fluid.



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# CIA-RDP86-00513R001859230012-0

VEESHIN, G.; SEMIN, N.; CHISTYAKOV, M.

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如attina (A. 1891-1892)

Soviet-Czechoslovak economic cooperation is growing stronger. Vnesh. torg. 29 no.12:12-17 '59. (MIRA 12:12) (Russia--Foreign economic relations--Czechoslovakia) (Czechoslovakia--Foreign economic relations--Russia)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859230012-0"

# CIA-RDP86-00513R001859230012-0

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VEKSHIN, G.

Czechoslovakia extends its economic ties with the entire world [with summary in English p.31]. Vnesh.torg. 26 no.6:1-5 Je '56. (MIRA 9:9)

(Czechoslovakia--Foreign economic relations)

APPROVED FOR RELEASE: 09/01/2001

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# CIA-RDP86-00513R001859230012-0

BALEK, A. [Bálek, Alexej]; DANEK, S. [Daněk, Stanislav], inzh.; FOFF, A. [Foff, Arthur], inzh.; KCLVODA, Ya. [Kalvoda, Jan], doktor; SHMID, Y. [Schmid, Josef], inzh.; SHKVOR, I. [Škvcr, J.], doktor; VAYTTS, A. [Waitz, Antonín], inzh.; ROMASHKIN, N.I. [translator]; VEKSHIN, G.K. [translator]; TKACHEVA, T.K. [translator]; OSTROUMOVA, V.S., red.; SEMENOVA, N.Kh., red.; KAFRALOVA, A.A., tekhn.red.
[General inventory of fixed assets in Czechoslovakia] General'naia inventarizatsiia osnovnykh fondov v Chekhoslovakii. Moskva, Gos. statist.izd-vo, 1959. 101 p. (MIRA 13:2) (Czechoslovakia--Inventories)

APPROVED FOR RELEASE: 09/01/2001

1 - March 1 - Add an abran anna ann an an an an

ZOLOTAREV, V.I.; PEKSHEV, Yu.A.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVYANTSEV, L.A.; SHVETSOV, N.'I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVYANTSEV, L.A.; ZYKOV, A.A.; NETRUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.: VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, F.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development of the people's democracies] Rezvitie ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red. N.I. Ivanova i dr. Moskva, Izd-vo sots.-ekon.lit-ry, 1958. 619 p. (MIRA 12:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut. (Economic conditions)

APPROVED FOR RELEASE: 09/01/2001



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### CIA-RDP86-00513R001859230012-0

GRUZINOV, V.P.; VEKSHIN, G.K.; KRASAVIN, M.V., red.; PONOMAREVA, A.A., tekhn.red.; GENASIMOVA, Ye.S., tekhn.red.

[Development of the national economy of Czechoslovakia; statistical collection] Razvitie narodnogo khoziaistva Chekhoslovakii; statisticheskii sbornik. Moskva, Gosplan-(MIRA 12:11) izdat, 1959. 243 p. (Cuechoslovakia--Statistics)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859230012-0



APPROVED FOR RELEASE: 09/01/2001

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859230012-0 ST DESIGNATION A.新聞時代, 予約第一日第二日第二日第二日第二日第二日第二日 OSADCHIY, L.K.; SYRKIN, Yu.G., inzh.tekhnolog; VEKSHIN, K.D., mashinist elektrovoza, Geroy Sotsialisticheskogo Truda; ONOPRIYENKO, L.N., mashinist elektrovoza; SHAROV, M.S.; MARKOVICH, I.A., mashinist-Instruktor "Electric networks of the VI23 electric locomotive." Elek. i (MIRA 14:10) tepl. tiaga 5 no.6:44-45 Je 161. 1. Depo Dnepropetrovsk (for Syrkin). 2. Depo Barabinsk Zapadno-Sibirskoy dorogi (for Sharov). (Electric locomotives) A REPORT OF A DESCRIPTION OF A DESCRIPTI SHEETER ALL ST. 1. 1. 4. 15 



ACC NR: AP7003156 AUTHOR: Kudryashiv, L. I.; Zhemkov, L. I.; Vekshin, V. S.; Belostotskiy, B. R.	
ORG: none TITLE: Thermal regime of the active element of a laser of finite length SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 6, 1966, 798-800 TOPIC TAGS: laser, laser rod, laser active body, laser rod geometry, laser rod length, laser rod length effect	
ABSTRACT: The analysis of pulse-type operation proceeds from the physical character of the heat exchange and the geometry of the body. An equation describing the temperature fields in a circular cylinder of finite dimensions is obtained. An analysis is also made of the cooling phase of the operational cycle. An equation is derived to describe the temperature field with constant cycle duration and duty factor, for any number of successive cycles. The theoretical findings are applied to a real case of two cylindrical bodies, one with a length equal to its radius, the other with a length-to-radius ratio of 10:1; the results show a much weaker effect of the end surfaces in the latter case.	
OFIG. arc. Mast         Dress           SUB CODE:         20/         SUBM DATE:         31Jan66/         ORIG REF:         004/         ATD PRESS:         5112           SUB CODE:         20/         SUBM DATE:         31Jan66/         ORIG REF:         004/         ATD PRESS:         5112           Cord         1/1         UDC:         535.89         000000000000000000000000000000000000	

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ACC NR:	AP6005468	SCIB/LJP(c) WG/WW		/FBD/ETC(f)/T/E%; : UR/0368/66/004/		
AUTHOR:	Kudryashev		tskiy, B. R.; Zl	hemkov, L. I.; Vek	shin, V. S.	;
ORG: no				4-400-14-05	92	1
TITLE: active e	Approximate lement of a	solution for the	e problem of nor	nstationary heat e	xchange in the	
SOURCE:	Zhurnal pri	Ikladnoy spektros	skopii, v. 4, no	. 1, 1966, 12-19		
TOPIC TA	GS: laser p	oulsation, laser	optics, heat tr	ransfer, solid sta	te laser	
ABSTRACT operation laser is proximate tem of ed tivity, s ture. Th	: The proce n of a pulse assumed to ely 10. The quations is specific hea he system is	esses of <u>nonstati</u> ed laser are math be a solid cylin problem is desc simplified by as t and density of solved by the p	onary heat exch mematically anal oder with a rati bribed by a syst suming that the the active elements	ange which takes p yzed. The active o of length to dia em of four equation coefficient of the ment are independent od for an isolated e field inside the	place during the element of the ameter of ap- ons. This sys- hermal conduc- ent of tempera-	•
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<b>名版</b> (1951		
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	ACC NR: AP6005468	<b>)</b> .
	in the case of continuous laser operation assuming an arbitrary number of cycles with a constant prf. Expressions are derived for the basic factors which determine heat exchange of the active element: thermophysical characteristics, pumping dura- tion and power, the length of a cycle, the pulse repetition frequency and the total operating time of the laser. Equations are given in dimensionless form which may bused in practical engineering problems for analyzing various operating cycles of pulsed lasers and the dimensions of active elements. Orig. art. has: 1 figure, 4 formulas.	De la
	SUB CODE: 20/ SUBM DATE: 29Jun65/ ORIG REF: 005/ OTH REF: 000	٩
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Y.E VEKSHIN, V.V. Fuel pumps and diesel nozzles. Standartizatsiia 28 no.9:58 (MIRA 18:2) S 164.

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VEKSHIN, V.V.

Cylinder diameters and piston rings of compressors for general use. Standartizatsiia 24 no.ll:36 N '60. (MIRA 13:11) (Compressors--Standards)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859230012-0"

# CIA-RDP86-00513R001859230012-0

VEKSHIN, V.V. Freon refrigeration units. Standartizatsiia 26 no.4:43-44 Ap '62. (MIRA 15:3) (Freons) (Refrigeration and refrigerating machinery -- Standards) 



MARKOVSKIY, L.Ya.; VEKSHINA, N.V.

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KERESSOF SAME

Production of alkaline earth metal borides by means of carbon reduction of their oxides. Zhur. prikl. khim. 31 no.9:1293-1299 (MIRA 11:10)

1.Gosudarstvennyy institut prikladnoy khimii. (Alkaline earth borides)

CONTRACTOR SERVICE

CIA-RDP86-00513R001859230012-0

5.2400 1043, 1208, 1273

25211 s/080/61/034/001/002/020 A057/A129

AUTHORS: Markovskiy, L.Ya., Vekshina, N.V.

TITLE: On Diborides of Alkaline Earth Metals

PERIODICAL: Zhurnal Prikladnoy Khimii, 1961, Vol. 34, No. 1, pp. 16-20

TEXT: At the 3rd Conference for Physicochemical Analysis, I. Ya. Markovskiy and Yn.D. Kondrashev. ZhNKh, 2, 34 (1957), Ref.1, are quoted to have demonstrated that with reference to certain metals of the 2nd and 3rd groups of the periodical system of elements the different borides of the same metal generally decrease in chemical activity with increasing content of boron in the new boride phase. This is explained by the formation of a more stable skeleton in hexaborides. In the present work, borides of Ca, Sr, and Ba were ing the evolution of boranes in this process. It has to be mentioned that the authors, while so far only the hexaborides of these elements were known. Card 1/8

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859230012-0

On Diborides of Alkaline Earth Metals

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carried out and the presence of  $MeB_2$  (Me stands here for Ca, Sr, Ba) was determined. The pulverized metal was mixed with elemental boron (containing less than 0.1% Mg, since through chemical reaction between boron and Mg boranes can also be formed), briquetted and fired in an argon atmosphere at 900°C-1,100°C, a temperature range covering optimum temperatures for each of the three elements. The borides were analyzed. They were separated from free metal by boiling them in diluted HCl; ions of metal and boron were determined in the filtrate and borane in the gaseous phase. The borane yield from  $CaB_2$  was 1.5-3% by weight (as compared with the total initial B), i.e., it was identical with the borane yield from the decomposition of  $MgB_2$ . Analytical data for the reaction between Ca and B are presented in Tab.2. timum conditions for the formation of  $CaB_2$  are: 950<sup>c</sup>C, holding time 1 hr, 0p-Ca:B ratio = 1:2, resulting in a 45% yield of  $CaB_2$  (the remainder is  $CaB_6$  and some B). X-ray analysis (made by Yu.D. Kondrashev) showed the presence of the new phase of CaB<sub>2</sub>, but the latter could not be isolated in a pure state. The results concerning the reaction between Ba, as well as Sr and B, are given in Tab.3 and demonstrate that formation of  $BaB_2$  occurs at 1,100°C (with a yield of 20.2%) and of  $SrB_2$  at 950°C (with a yield of 11.2%). The diborides are more easily formed if an excess of the metal is present. Formation of Card 2/8

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22521 S/080/61/034/001/002/020 A057/A129

On Diborides of Alkaline Earth Metals

diborides takes place within a sharply defined temperature range, above which a dissociation into the constituent elements occurs. Simultaneously with the diborides, hexaborides are formed whose relative rate of formation increases with an increase in the atomic weight of the metal. Hence the yield of SrB<sub>2</sub> and BaB<sub>2</sub> is lower than that of MgB<sub>2</sub> and CaB<sub>2</sub>. The investigated borides are easily hydrolyzed by acids with liberation of boranes in amounts corresponding to those obtained by MgB<sub>2</sub> hydrolysis (Tab.4). There is 1 figure, 4 tables and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc The reference to the English-language publication reads as follows: L. Lafferty, J.Appl.Phys., 22,299 (1931).

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: June 4, 1960

Card 3/8

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859230012-0"

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25382 S/080/61/034/C02/001/025 15.2240 abo 2209 A057/A129 AUTHORS : Markovskiy, L.Ya., Vekshina, N.V. TITLE: On ternary compounds in the system "alkaline earth metal boron - carbon" PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 242-248 TEXT: In the present work preliminary investigations of ternary compounds between alkaline earth metal (especially calcium), boron, and carbon were made. The composition and formation conditions were studied to determine syntheses of pure (carbon-free) hexaborides of alkaline earth metals. These borides are of interest because of their chemical and thermal resistance and their special heat-emitting properties. In the simplest preparation method, i.e., reduction with carbon, formation of polymeric organic compounds occurs, which contaminate the product. It is demonstrated in the present investigations that formation of organic compounds is due to Card 1/7

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#### CIA-RDP86-00513R001859230012-0

On ternary compounds ...

25302 S/080/61/034/002/001/025 AC57/A129

the presence of the above-mentioned ternary compounds in reduction products. The formation of a single compound with an approximate formula CaC, B was also determined. The experiments were carried out by heating ( 1hr at 1300°C in argon atmosphere) tabletted mixtures of carbon, boron, and the respective alkaline earth metal varying the molal ratio. After heating the product was treated with water to determine MeC<sub>2</sub> (Me - metal) and with hydrochloric acid demonstrating the presence of organic substances by a strong exothermic reaction. The acid-soluble products (CaClo, H, BO, and liquid organic substances) were separated from insoluble metal <sup>2</sup>heraborides, free boron and carbon, and solid organic substances by filtration. The primary heating product, gaseous and liquid products of hydrolysis, and the non-soluble residue, as well as the final products obtained after reasting (300°-400°C) of the solid organic substances were investigated by X-ray and/or chemical analysis. Results obtained by varying ratios of the components demonstrate (Tab. 2) that in all experiments formation of CaB6 occurs, and formation of organic compounds is not caused by CaCl<sub>2</sub>, but by another substance which hardly reacts with water and decomposes fquickly with hydrochloric acid. Data obtained by hydrolytic decomposition (Tab. 3)

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#### CIA-RDP86-00513R001859230012-0

25332 S/080/61/034/002/001/025 A057/A129

On ternary compounds ...

indicate that the molal ratio Ca : C : B is 1 : 2 : 1 in the hydrolyzed product, thus the substance in question has apparently the formula of a boron carbide CaC, B. The latter was also determined by X-ray analysis (see Tab. 2) and is called phase a by the present authors. No other boron carbides could be determined. It was observed that with increasing carbon content in the initial mixture the yield in CaB<sub>4</sub> decreases, while CaC<sub>2</sub>B and CaC, are formed together. Increase in borch content increases CaB, formation and decreases correspondingly the CaC, and CaC B content. Ex-periments with strontium and barium were carried out in the ratic Me : C : B = 1 : 2 : 2 which was found to be the optimum ratic for calcium compositions. It can be seen from experimental results (Tab. 6) that corresponding to data for calcium a considerable amount of organic substances is formed and the formula for the ternary compound is MeCoB. Preliminary results concerning properties of the organic compounds demonstrate that with acid decomposition of boron carbides metal chlcrides, boric acid and liquid non-saturated hydrocarbons with open chain are formed. These hydrocarbons do not contain acetylene triple bonds, but a non-saturated

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On ternary compounds ...

2:302 S/080/61/034/002/001/025 A057/A129

double bond. With continuing polymerization the main part of liquid organic substances changes into solid substances. The composition of organic substances depends on conditions of hydrolysis, but the carbon/hydrogen ratio remains approximately 1 : 2. The organic substances are best soluble in tetrahydrofurane and acetone. Infrared spectral analyses demonstrated that the liquid and solid polymers contain  $CH_2$ - and CH- groups in the open chain. Addition of  $H_2O_2$  to the liquid polymers effects (similar to butadiene polymerization) formation of a white flocculent precipitate. It can be assumed that the liquid products of hydrolysis of boron organic substances have to be investigated in further experiments. The authors thank Yu.D. Kondrashev for taking the X-ray patterns in the present investigations. There are 7 tables and 6 references: 3 Soviet-bloc and 7 non-Soviet-bloc. The references to the English-language publications read as follows: P. McKenna, Ind. Eng. Chem., 28,767 (1936), H. Blumenthal, Powder Metall. Bull., 7,79 (1956).

SUBMITTED: September 26, 1960 Card 4/7

APPROVED FOR RELEASE: 09/01/2001

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27911 **S/080/61/034/010/003/016** D258/D301

AUTHORS: Vekshina, N. V., and Markovskiy, L. Ya.

TITLE: Some chemical properties of the alkaline-earth hexaborides

**FERIODICAL:** Zhurnal prikladnoy khimii, v. 34, no. 10, 1961, 2171-2175

The authors studied the chemical reactivity of CaB<sub>6</sub>, BaB<sub>6</sub>, and TEXT: SrB<sub>e</sub> produced in the course of an investigation of methods for their preparation (Ref. 11: Zhur. prikladnoy khim. 31, 1958, 1293). The tests employed consisted in treating these compounds with acids and bases and heating them separately with oxygen, nitrogen and carbon. Of these tests, only the oxidation was studied previously. The hexaborides were used in a powdery form (particle size  $\leq 4\mu$ ) and analyzed as follows: CaB<sub>6</sub> -38.2% Ca, 61.9% B; SrB<sub>6</sub> - 57.4% Sr, 42.8% B; BaB<sub>6</sub> - 67.8% Ba, 31.9% B. (a) Treatment with acids and bases. The boride (10 g) was added to the Х

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Some chemical properties....

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reagent (250 ml) and the mixture was allowed to stand at room temperature without stirring. The results are given in tabulated forms

Boride	Reagent		Percen	tage of	dissoluti	on after:	
		l hr.	2 hrs.	l day	2 days	4 days	10 days
CaB <sub>6</sub>	HC1, $d = 1.19$	0.5	0.5	1.7	1.8	1.3	1.5
	$H_2SO_4^9$ d = 1.84		did	n o t	d e c o	m p o s e	•
<b>61</b>	$HNO_3, d = 1.42$		97.3	100.0	-	-	<b>9</b> 42.5
48	NaOH, 50%		2.2	2.0	2.4	2.2	2.6
88	Na <sub>2</sub> CO <sub>3</sub> , 50%	0.3	0.4	0.4	0.2	0.3	0.5
SrB <sub>6</sub>	HC1, $d = 1.19$		8 ه 0	1.4	1.5	1.2	1.5
w	$H_0SO_4$ , d = 1.84		did	not	ç e c o	mpose	9
**	$HNO_3$ , d = 1.42		100.0		-	-	ديو الار
	(Tab	le is (	continued	on Car	d 3)		K
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3	NaOH, 50%	0.8	1.2	1.6	1.4	1.9	1.9
	Na <sub>2</sub> CO <sub>3</sub> , 50%	-		1.3	1.5	1.5	1.5
	HC1, d = 1.19	0.8	1.1	1.6	2.0	2.9	3.0
	$H_2 SO_4, d = 1.8$		d i d	not		m p o s	
	$HNO_3, d = 1.42$	94.0	98.8	100.0	-	-	_
	NaOH, 50%	1.2	1.2	1.9	1.7	1.8	
	Na <sub>2</sub> CO <sub>3</sub> , 50%	0.6	1.2	1.4	1.2	1.2	1.9 1.4

No hydrolysis occurred on treating the borides with boiling dil. HCl and no boranes evolved. (b) Stability on heating with  $0_2$ . The compounds were placed in a quartz boat and heated at  $500^{\circ}$ C to  $1200^{\circ}$ C in a stream of dry  $0_2$ . Experiments with  $CrB_2$ ,  $TiB_2$  and  $ZrB_2$  were included for comparison. Fig. 3 shows a fair rate of oxidation at  $650^{\circ}$ C and over. Experiments Card 3/5

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#### CIA-RDP86-00513R001859230012-0

Some chemical properties...

27911 S/080/61/034/010/003/016 D258/D301

conducted at  $900^{\circ}$ C showed that the oxidation is proceeding at a fair rate during the first 30 min. but attains a limiting value after 2 hours (39% for CaB<sub>6</sub>, 42% for SrB<sub>6</sub>, and 46% for BaB<sub>6</sub>). This was explained by the formation of a protective film of borates which, however, vanishes at higher

temperatures. (c) Stability of heating with carbon and with nitrogen. 1 : 1 mixtures of borides with graphite were heated at  $1700^{\circ}$ C to  $2000^{\circ}$ C: also, borides were heated in a stream of N<sub>p</sub> at 800, 1000, 1200 and 1400<sup>°</sup>C.

The products were analyzed by chemical and X-ray analysis. No nitrides or boron carbides were shown to be formed. Conclusions: The hexaborides of Ca, Sr and Ba are shown to be even more inert than the borides of transition metals. This fact is said to confirm the author's previously expressed view (Ref. 15: Zhur. neorg. khim. 34, 1957, 2) that the stability of a boride increases with the number of boron atoms contained. There are 3 figures, 1 table and 15 references: 7 Soviet-bloc and 8 non-Soviet-bloc. The reference to the English-language publication reads as follows: H. Moissan, A. Williams, C. r., 125, 629 (1897).

Card 4/5

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#### CIA-RDP86-00513R001859230012-0



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TITLE:

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32392 S/080/62/035/001/002/013 D245/D304

AUTHORS: Vekshina, N. V. and Markovskiy, L. Ya.

Study of reactions taking place during the preparation of hexaborides of alkaline-earth metals by reduction with carbon

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 1, 1962, 30-37

TEXT: Using chemically pure materials, the authors made a detailed series of studies of the reactions which occur during the preparation of Ca, Ba and Sr hexaborides by heating mixtures of varying composition of the oxides with graphite and B. The primary sinter, liquid and gaseous products of hydrolysis and insoluble residues were analyzed. The possible interactions are discussed. Using a charge of optimum composition (CaO +  $3B_2O_3$  + 5C), it was found that,  $\swarrow$  up to 1500°C, the only reaction was between the metal oxide and boron to form borates. Reduction with C commenced at 1700° but, at this temperature, the products were boron carbide and graphite. The optimum temperature for the formation of hexaborides was found Card 1/2

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Study of reactions ...

to be 1900°C. The tendency to form MC<sub>4</sub>B<sub>2</sub> increases from Ca to Sr to Ba. Optimum conditions for obtaining nearly stoichiometric yields of the hexaborides are shown in tabulated form. There are 1 figure, 4 tables and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: H. Blumenthal, Powd. Metal. Bull., v. 7, 79, 1956; A. Stock, 'Hydrides of Boron and Silicon' (1933); P. Blum and F. Bertaut, Acta Cryst., v. 7, 81, (1954).

ASSOCIATION: Gosudarstvenny institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: April 5, 1961

Card 2/2

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THE PERSON AND A DESCRIPTION OF A DESCRIPT A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A DESCRIPTION OF A

S/080/62/035/009/011/014 ··· D287/D307

AUTHORS: Markovskiy, L.Ya., Vekshina, N.V., and Pron', G.F.

TITLE: The formation of boron carbides during the reduction of rare earth metal oxide mixtures and of boron with carbon

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 9, 1962, 2090 - 2091

TEXT: The present work is a continuation of earlier investigations carried out by the authors on the formation of lanthanide borides and on metal - boron - carbon systems. Experiments on the C-reduction of mixtures containing CeO<sub>2</sub> or  $La_2O_3$  and  $B_2O_3$  were carried out

at temperatures between 1900 and  $2000^{\circ}$ C, under the conditions described earlier. The reduction products were found to contain a considerable quantity of a chemically unstable product; hydrolysis of the latter induced the following reactions: B and the metal went into solution, C and a certain percentage of B formed polymeric organic compounds. These results, as well as x-ray data from preliminary investigations, proved that boron carbides were formed in the Card 1/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859230012-0 s/080/62/035/009/011/014 D287/D307 systems Ce-B-C and La-B-C and that the properties of the compounds were similar to the characteristics of boron carbides of alkaline earth metals. There is 1 table. SUBMITTED: December 18, 1961

Card 2/2

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28.380年4月26日,2014年4月1日,1917年2月19日。 1918年1月19日,1917年1月19日,1917年2月19日,1917年1月19日,1917年1月19日,1917年1月19日,1917年1月19日,1917年1月19日,1917年1月19日,1917年1月19日,1

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FARKOVSKIY, L.Ya.; VEKSHINA, U.V.

Some chemical properties of alkaline earth borecarbles and of their hydrolysis products. Zhur. prikl. khim. 37 me. 46: 2120-2126 0 164.

Alkaline earth borocarbides. Ibid .: 2126-2133

(MRA 17:11)

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ACCESSION NR: AP4047117 AT/RM/WH/WW/JD/JG FC-4/
AUTHOR: Markovskiy, L. Ya.; Vekshina, N. V.
TITLE: Contain in the second s
TITLE: Certain chemical properties of the alkaline earth metal borocarbides
or their hydrolytic decomposition ()
SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 2120-2126
TOTAL 100 Knimil, v. 37, no. 10, 1964, 2120-2126
TOPIC TAGS: alkaline earth borocarbide to the
TOPIC TAGS: alkaline earth borocarbide, hydrolytic decomposition, hydrolysis,
ABSTRACT, The second se
studied, especially their hydrolysis and their high temperature reactions with not react with carbon and boron anhydrides. These bases between the statement of the statement o
oxygen, carbon, nitrogen barres and their high temperature possi
oxygen, carbon, nitrogen, boron and boron anhydrides. These borocarbides did not react with carbon and nitrogen at 1700-2000C. They started to oxidize at 1000C under atmospheric pressure, and were burned completely in the started to an interval.
form the
1000C under atmospheric pressure, and were burned completely at 1300C to form the molten borates. At 1900C they reacted with B and with $B_2O_3$ : $MeC_4B_2 + B \rightarrow MeB_6 + B_4C + 2C$ , and $MeC_4B_2 + B_2O_2 + C_4MeB_3$ .
$B_4C + 2C$ , and MeC $B_4 + D_5$ and with $B_9O_3$ :
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probably dienic Hydroladia	inc bonds; the unsaturation was
been at the C-B or B-B hand.	m and Dorocar Dides was believed to have
attributed either to addition of D	the products was
carbon chains ( ) to palase	A second agricence of the unsaturated had
The alkaline aarth baragadii	H <sub>3</sub> radicals to fragments of the unsaturated hydro- tion of chain segments containing the B-C bond. were oxidized by concentrated HNO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> , gen oxides and SO <sub>2</sub> Origonate the set of the second
reducing them to the law	were oxidized by concentrated HNOs and W SO
and 1 figure	were oxidized by concentrated $HNO_3$ and $H_2SO_4$ , gen oxides and $SO_2$ . Orig. art. has: 7 tables
ASSOCIATION	2 art. has: / tables
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Applied Chemistry)	state Institute of
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L 27619-65 EWP(e)/EWP(w)/EWT(m)/bPF(c)/EWA(d)/EPF(n)-2/EWP(t)/T/EWP(j)/EFR/EWP(b) Pc-4/Pr-4/Ps-4/Pa-4 IJF(c /RPL JJ/WW/JJ/AT/RK/WH ACCESSION NR: AP5005563 S/0080/65/038/002/0245/0251	
AUTHOR: Markovskiy, L. Ya.; Vekshina, N. V.; Pron', G. F.	
TITLE: Lenthenum borocarbides 27 27 27 SOURCE: Zhurnal priklednoy khimii, v. 38, no. 2, 1965, 245-251	
TOPIC TAGS: rare earth borocarbide, lanthanum borocarbide, high temperature borocarbide, borocarbide preparation, borocarbide hydrolysis, borocarbide thermal dissociation	
ABSTRACT: The preparation and physicochemical properties of the high-temperature phase of lanthanum borocarbide, $LaC_4B_2$ , have been studied because of the importance of the rare-earth compounds with boron and carbon for various processes such as the formation of polymerizable organoboron compounds by hydrolysis of borocarbides. A product containing 93-96% $LaC_4B_2$ was prepared by sintering in reducing atmosphere at 1900C the following mixtures: 1) lanthanum metal, boron, and carbon; or 2) boron carbide, carbon, and lanthanum metal, lanthanum oxide, or lanthanum carbide; or 3) lanthanum carbide, carbon, and boron or boron oxide $(B_2O_3)$ . Thermal reduction with carbon of a mixture of lanthanum and boron oxides produced either a mixture of $LaC_4B_2$ (up to 70%) and $LaB_6$ , or pure $LaB_6$ . The products of all reactions studied	
Card 1/3	

#### CIA-RDP86-00513R001859230012-0

L 27619-65 AP5005563 ere determined by elemental and phase chemical analysis and x-ray powder diffraction. The analytical methods were described. The phase determination was made by analyzing the solution, residue, and gas produced by hydrolysis (with hydrochloric theryzing the solution, residue, and gas produced by hydrolysis (with hydrochioric acid) of the sintered products. The products of sintering were composed of boro-carbides, lanthanum hexaboride (LaB<sub>6</sub>), carbon, and, occasionally, lanthanum carbide (LaC<sub>2</sub>) or boron carbide ( $B_4C$ ). The optimum La:C:B ratio in the starting mixture producing  $LaC_4B_2$ , exclusive of other borocarbide phases, was found to be 1:4:2. Other [unspecified] borocarbide phases were detected in the sintered mass obtained with different La:C:B ratios. Pure  $LaC_4B_2$  was a polycrystalline cake which decomposed on heating up to its melting point (over 2000C) and was completely hydrolyzed by HCl with the formation of solid, liquid, and gaseous organic compounds, as in the hydrolysis of alkaline earth borocarbides. Experimental data confirmed the existence of the cerium, preseodymium, neodymium, samarium, europium, and gadolinium borocarbides, enalogous to lanthanwa borocarbide and alkaline earth borocarbides, which are completely dissociated at high temperature in vacuum. Orig. art. has: 2 figures and 5 tables. ASSOCIATION: none Card 2/3

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859230012-0 L 27619-65 AUCESSION NR: AP5005563 SUB CODE: GC, MT ENCL: 00 SUBMITTED: 18Jan63 ATD PRESS: 3190 OTHER: 000 NO REF SOV: 009 Card 3/3

#### CIA-RDP86-00513R001859230012-0

JD/JG EWP(e)/EWT(m)/EWP(t) IJF(c) SOURCE CODE: UR/0080/66/039/001/0013/0020 L 16051-65 AP6005515 ACC NR: Markovskiy, L. Ya.; Vekshina, N. V.; Kondrashev, Yu. D.; Stroganova, М. Ι. AUTHOR: ß ORG: none TITLE: Ternary compounds in the <u>beryllium-boron-carbon</u> system SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 1, 1966, 13-20 TOPIC TAGS: beryllium compound, boron compound, carbide, crystal structure ABSTRACT: To study the reaction of beryllium with boron and carbon, powder mixtures of the components were sintered at 1200-2000°C, and the products were subjected to x-ray and chemical phase analysis. The data showed the existence of two beryllium x-ray and chemical phase analysis. The structure of  $BeC_2B_2$ , (studied by the single borocarbides,  $BeC_2B_2$  and  $BeC_2B_{12}$ . The structure of  $BeC_2B_2$ , (studied by the single crystal method) is characterized by a hexagonal system, Laue class  $\frac{6}{mm}$ , and lattice constants a = 10.84 and c = 6.18. The structure of  $BeC_2B_{12}$ , (studied by the powder method) belongs to the  $B_4C(B_{12}C_3)$  structural type. The lattice constants are a = 5.615, c = 12.28 Å, c/a = 2.187. It is shown that in contrast to alkaline earth and rare earth borocarbides, beryllium borocarbides are chemically stable compounds and 2 546.45'27'26 UDC: Card 1/2 CLOBERT OF

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L 04733-67 EWT(m)/EWP(t)/ETI IJP(c) JD ACC NR: AP6027008 SOURCE CODE: UR/0080/66/039/005/0973/0977 AUTHOR: Markovskiy, L. Ya.; Vekshina, N. V.; Kondrashev, Yu. D. 32
ORG: none B
TITLE: <u>Chromium borocarbide</u> $\frac{1}{2}$ SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 5, 1966, 973-977 TOPIC TAGS: chromium compound, chromium carbide, boron compound, carbon compound, phase composition, X ray diffraction pattern the phase compositions of the reaction products of chromium the phase compositions of the reaction products of chromium
ABSTRACT: The phase compositions of the reaction products of unistence with boron and carbon in the Cr-B-C system were studied. The existence of the ternary compound, chromium borocarbide, $Cr_7BC_1$ was established: nhombic, $a = 2.86A$ , $b = 9.22A$ , $c = 6.95A$ . Powder pattern data is rhombic, $a = 2.86A$ , $b = 9.22A$ , $c = 6.95A$ . Powder pattern data is given. When the molar ratio of Cr in Cr:B:C is small, CrB and CrB <sub>2</sub> are formed; as Cr content is increased the carbides $Cr_3C_2$ and $Cr_7C_3$ are formed. It was established that all chromium carbides react with boron formed. It was established that all chromium based on $Cr_7C_3$ or $Cr_3C_2$ and with borides forming either solid solutions based on $Cr_7C_3$ or $Cr_3C_2$ or the borocarbide $Cr_7BC_1$ . Chromium mono- and diborides are characterized by high stability with respect to carbon. The lower characterized by high stability are converted in the presence of carbon at borides, $Cr_2^B$ in particular, are converted in the presence of carbon at
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decompose completely in acid to form liquid and solid polymeric organoboron compounds containing up to 10% B, saturated and unsaturated hydrocarbons and boron hydrides and hydrogen. In addition to elemental synthesis, the alkaline earth borocarbides were formed under all other conditions when reaction between B. C and the alkine earth metals is possible: by reaction of the MeC<sub>2</sub> carbides with  $B_2O_3$ , elemental B or boron carbide; by the reduction of the Ca, Sr, or Ba oxides with boron carbides and carbon; or by the thermal carbon reduction of a mixture of boron oxides and the alkaline earth metal. "The authors thank Yu. D. Kondrashev for conducting the x-ray analysis of the borocarbide samples." Orig. art. has: 6 tables and 7 equations.

**ASSOCIATION:** None

SUBMITTED: 04Nov62 ENCL: 00 SUB CODE: IC, GC NO REF SOV: 011 OTHER: 001

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**"APPROVED FOR RELEASE: 09/01/2001** CIA-RDP86-00513R001859230012-0 10992-66 IJP(c)  $\underline{EWT(m)/ETC(F)/EWG(m)/EWP(t)/EWP(b)}$ RDW/JD/JG ACC NR: AP6000680 SOURCE CODE: UR/0080/65/038/009/1945/194 56, 44 55 AUTHOR: Vekshina, N. V. Markovskiy, L. Ye .; ORG: State Institute for Applied Chemistry, Leningrad (Gosuderstvennyy institut prikladnoy khimii) TITLE: A new boride phase with a high metallic content in the lanthanum-boron system v 21 SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 9, 1965, 1945-1949 TOPIC TAGS: lanthanum compound, boron compound, phase analysis ABSTRACT: The article describes the use of hydrolytic separation for the discovery of new boride phases of lanthanum. Reaction of lanthanum and boron was carried out by the sintering of a pressed mixture of their powders at temperatures from 800 to 1300°. The powders used were pre-pared from ingots containing 99.8% lanthanum and 99% pure finely crystalline <u>boron</u> btained by the refining of amorphous boron in vacuum at 2000°. The reaction products were subjected to x-ray examination and to chemical phase analysis. Experiments showed that LaBL and LaBG are practically insoluble in very dilute hydrochloric acid, and that only lanthanum tetraboride is dissolved during boiling. Lanthanum hexaboride Card 1/2 UDC: 546.654 261 271 

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(like LaB)) is readily soluble in nitric acid. Based on this fact, samples ware "treated for about one hour in dilute hydrochloric acid (1:10) until the dissolving stopped. The solid residue obtained was further treated with boiling concentrated hydrochloric acid and the product, insoluble in the hydrochloric acid, was treated with strong nitric acid. The solutions obtained were analyzed for boron and lanthanum. The experiments showed that, during the reaction with weak hydrochloric acid of a number of samples obtained by the sintering of metallic lanthanum with boron, there is observed an energetic reaction accompanied by the evolution of boron hydrides #5 The experimental data indicate that the amounts of lanthanum and boron in the solution correspond to the ratio La:B = 2:1. This ratio is maintained over a wide range of lanthanum and boron concentrations in the original charge. Analysis indicates that, in addition to the known borides--LeB<sub>4</sub> and LaB<sub>6</sub>, there exists also a lower boride of the composition  $La_2B_4$ . In distinction from the bexabor-ide, this compound is readily soluble in very dilute hydrochloric acid with the evolution of a large emount of boron hydrides up to 8%. It has been established that, in the series  $La_2B-LaB_4$ -LaB<sub>6</sub>, the chemical stab-ility of the borides increases with the boron content in the boride phase. The highest boride content, Lab, in the melts is sttained with a ratio in the reaction mixture equal to La:B = 1:2 and a calcining temperature of  $800^{\circ}$ . Orig. art. hes: 1 figure and 4 tables. SUBM DATE: 02Aug63/ ORIG REF: 006/ OTH REF: 006 SUB CODE: 2/2

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VEKSHINA, V. N., Cand Geolog-Mineralog Sci (diss) -- "The stratigraphy of the Mesozoic and Falcogenic deposits of the west Siberian lowland and the paleography of the ancient basins of western Siberia (Based on data from the analysis of aqueous microflora: diatoms, silica flagellates, and coccolithophorides)". Tomsk, 1960. 17 pp (Siberian Sci Res Inst of Geol, Geophys, and Mineral Raw Materials SNIIGGIMS), 150 copies (KL, No 15, 1960, 132)

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VEKSHINA, V.N.

Diatoms in Upper Jurassic sediments of the West Siberian Plain. Trudy SNIGGIMS no.8:160-162 '60. (MIRA 15:9) (West Siberian Plain--Diatoms)

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VEKSHINA, V.N.

New genus and new species of diatoms from Cretaceous and Peleogene sediments in the West Siberian Plain. Trudy SNIGGIMS no.15:89-96 (MIRA 15:9)

(West Siberian Plain---Diatoms)

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VEKSHINA, V.N.

Zone with Ebria antiqua Schultz in the lower Oligocene of the West Siberian Lowland. Dokl.AN SSSR 136 no.5:1176-1179 F '61. (MIRA 14:5)

1.Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya. Predstavleno akad. A.L.Yanshinym. (Siberia, Western-Geology, Stratigraphic)

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VEKSHINA, V.N.

Coccolithophorids of the Mar'yanovskaya series in the West Siberian Plain. Trudy SNIIGGIMS no.23:101-103 '62. (MIRA 16:9) (West Siberian Plain--Coccolithophoridae, Fossil)

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VEKSHINA, V.N.

Elements of the paleography of the Mesozoic and Paleogene in the West Siberian Plain based on data from the analysis of diatoms and Coccolithophoridae. Trudy SNIIGCIMS no.26:48-61 \*62. (MIRA 16:3) (West Siberian Plain--Paleogecgraphy)

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PRIVEYER, J. I.S.; YESSHIMA, Y., M.; SURENKOVA, L.S. Intersection of aemonic and aniaes with CA -oxides and hydroxyoxides of acetylenic and vinylacetylenic series. Synthesis of alkyl, -vinyl, -phenylpyroles and pyrole-carbinols [vith sunmarked by a Baglish, p.154]. Vest. Jen. uz. 12 no.4:134-144 •57. (Pyrroles) (Nethanol) (NIRA 10:4)

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VEKSHINSKIY, Sergey Arkad yevich

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"A New Method for the Metallographic Study of Alloys," <u>1944</u>. This book sets forth the results of the author"s attempt to develop a new method for obtaining and studying metal alloys. In 1946 this work was awarded the Stalin Prize.

Bol'shaya Sovetskaya Entsiklopediya, Vol. VII, 2nd ed., Moscow, 1949

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$\operatorname{Ext}(1)/\operatorname{ExP}(e)/\operatorname{Ext}(\pi)/\operatorname{ExP}(e)/\operatorname{ExP}(e)/\operatorname{ExP}(b) = \operatorname{ExP}(e)$ 85./3**5/**68 L 3162-66 UR/0020/65/162/006/1281/1283 ACCESSION NR: AP5017208 42 Shelyubskiy, V. I.; Vekshinskiy, S. A. AUTHORS: B TITLE: Investigation of the refraction of light by poly-alkaline silicate glasses, by the method of samples of variable composition SOURCE: AN SSSR. Doklady, v. 162, no. 6, 1965, 1281-1283 TOPIC TAGS: refractive index, optic glass, silicate glass, glass property ABSTRACT: To investigate the influence of the poly-alkaline effect on the refraction of light, the authors studied binary sections of 4-component systems  $R_2 0 - R_2^1 0$ -CaO-SiO<sub>2</sub>, with constant content (19.1 molar per cent) of the two alkaline oxides, CaO (4.5 molar per cent) and SiO<sub>2</sub>(76.4 molar per cent), and binary sections of the five-component system Li20-Na20-K20-Ca0-Si02 with the same constant content of the sum of the three alkaline oxides, CaO, and SiO<sub>2</sub>. The method used Card 1/2

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to prepare the variable-c	composition samples is described. The refrac-	
refractometer. The resul samples were compared wit samples and of specially results show that the sim substance: does not lead refractive index on the contractive index on the contractive index on the contractive is not poly-all	accurate to $\pm$ 5 x 10 <sup>-4</sup> with an Abbe type ts for the constant- and variable-composition th the refractive indices of the initial prepared constant-composition samples. The nultaneous presence of two or three alkaline to any nonlinearity in the dependence of the composition, so that it can be concluded kaline effect in complex silicate glasses. Toy S. A. Vakshinskiy. Orig. art. has:	
ASSOCIATION: None		
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<ul> <li>AUTHOR: Vekshteyn, G. Ye.; Zaslavskiy, G. M.</li> <li>ORG: none</li> <li>TITLE: Contribution to the theory of relaxation under the influence of an external random field</li> <li>SOURCE: AN SSSR. Doklady, v. 172, no. 1, 1967, 69-72</li> <li>TOPIC TAGS: relaxation process, monochromatic radiation, quantum generator, phase equilibrium, random process</li> <li>ABSTRACT: The authors investigate the behavior of a two-level system under the influence of a monochromatic wave with randomly varying phase in a case close to resfluence of a monochromatic wave with relaxation process of the system in the case when the balance equations are not valid. The problem is solved in general fuely in the relaxation phase of the field. The</li> </ul>
case when the balance equations are not valid. The problem is solved in field. The form with few limitations on the random law governing the phases of the field. The form with few limitations on the random law governing the phases of the density matrix solution is based on using the equations for the components of the density matrix describing the behavior of the two-level system under the influence of the field and treating the phase as a series of $\delta$ -functions. The solutions go over in certain limiting cases to the already known solutions obtained by means of the balance equa- tions. The results can be readily generalized to other forms of the random phase variation. The authors thank S. T. Belyayev and V. G. Zelevinskiy for useful criticism. This report was presented by Academician G. I. Budker 10 March 1966.

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STEMEYOVSKAYA, L.A.; VEKSHTEYN, M.A.

Simplified tracing of DDT by the Schechter and Haller method. Vop. pit. 24 no. 6:17-20 N=D \*65 (MIRA 19:1)

l. Laboratoriya po razrabotke metodov opredeleniya yadokhimikatov v pishchevykh produktakh (zav. - kand. khim. nauk L.A. Stempkovskym) Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya, Kiyev.

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ACCESSION NR: AP4043646 S/0056/64/047/002/0678/0688	
AUTHOR: Vekshteyn, Ye. G.	
TITLE: Radiative corrections to the photoproduction of electron- positron pairs	
SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 678-688	· .
TOPIC TAGS: pair production, radiation effect, Coulomb field, fine structure, photoproduction	
ABSTRACT: The S-matrix method is used to calculate radiative cor- rections to the effective cross section for photoproduction of an electron-positron pair in the Coulomb field of a nucleus. The rela- tive magnitude (compared with the Bethe-Heitler formula) of these corrections is proportional to the first power of the fine-structure constant. The radiative-correction components calculated correspond to the electron self-energy part, the vertex parts, the photon self-	
Card 1/2	

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### ACCESSION NR: AP4043646

energy part, and the matrix element for other fourth-order processes. It is shown that in the ultrarelativistic region  $\omega \gg m$ , when the angle m/ $\omega$  between the photon momentum and the electron (positron) is . small, the relative correction is proportional to  $(\omega/m)^2$  if the pair is symmetrically emitted relative to the photon momentum (m -- mass,  $\omega$  -- energy). The energy and angular widths of this region of anomalously large radiative corrections is investigated. It is pointed out that inclusion of terms proportional to the square of the fine structure constant may give a fractional radiative correction which can exceed at high energies the correction obtained here. The accuracy of the results is compared with that of results obtained by others. Orig. art. has: 3 figures and 47 formulas.

Odesskiy gosudarstvenny\*y universitet (Odessa State ASSOCIATION: University)

SUBMITTED: 22Sep63 ENCL: 00 SUB CODE: NP NR REF SOV: 003 **OTHER:** 000 2/2 Card 

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S/148/61/000/006/013/013 E193/E480

AUTHORS: Sokolov, L.D., Shirokov, V.N., Grebenik, V.M., Veksin, I.N., Baklushin, I.L., Lyulenkov, V.I., Sabantsev, V.P.

TITLE: Experimental and analytical determination of forces in cold rolling

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, 1961, No.6, pp.191-193

In the course of an earlier investigation carried out by TEXT: the present authors (Ref.1: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, 1959, 8), large discrepancies were found between the laboratory results and the operational data on forces octing on the rolls during cold rolling. It was revealed, however, in the course of further tests that in many cases the roll chocks had become worn (in some places to a depth of 0.4 mm) and it was postulated that this factor may have affected the load cell In an attempt to find a way of eliminating this source anadings. error, both during the calibration of the load cells and later .n use, the effect of lead washere approximately 2 mm thick, placed under the dynamometers, was investigated. Fig.1 shows the ard-1/6

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Experimental and analytical ...

experimental conditions: a - an annular washer supporting the load cell along its periphery; 6 - a solid washer under the **B** - no washer; **2** - a solid central part of the load cell; washer of the size equal to that of the load cell. On the righthand side of Fig.l, the calibrating force is plotted against the load cell readings; most consistent results were obtained when a large solid washer was used (graph 2). The latter method was employed in roll force measurements and the results compared with roll force values, calculated according to A.I.Tselikov and A,A.Korolev (Ref.2: Prokatnyye stany, Metallurgizdat, 1958). The It will be seen that the difference esults are tabulated. reached occasionally 30 or even 37%, the experimental values being always lower than the calculated figures. One possible explanation of this effect is provided by the fact that the temperature of cold rolled metal increases. Although the strength of the carbon steels and constructional alloy steels increases on heating between 20 and 400°C, this increase takes place during cold relling at certain rolling speeds only. According to M.I.Manjoine (Ref.5: Journal of the Iron and Steel, v.150, p.3, VI, 1947, 380), Card 2/6

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Experimental, and analytical	S/148/61/000/006/013/013 E193/E480
the "ageing peak" is shifted toward steel is rolled at high rolling spe conditions the strength of steel be with increasing temperature. Cons attained by the metal during cold r its resistance to deformation (part decreases, which explains the discr 2 figures, 1 table and 5 references The reference to an English languag M.I.Manjoine, Journal of the Iron a 380.	eds, so that under under checkeds, stween 0 and 400°C decreases equently, if the temperature colling at high speeds is 300°C, icularly at heavy drafts) repancy observed. There are 1: 4 Soviet and 1 non-Soviet.
ASSOCIATION: Sibirskiy metallurgich (Siberian Metallurgica	neskiy institut al Institute)
SUBMITTED: March 30, 1960	45
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**"APPROVED FOR RELEASE: 09/01/2001** CIA-RDP86-00513R001859230012-0 ili i mandar e si sindi kiti sunda katawa kataw BAKLUSHIN, I.L., inzh.; VEKSIN, I.N., inzh.; GRNBENIK, V.M., dots., kand.tekhn.nauk; LYULENKOV, V.I., inzh.; SABANTSEV, V.P., inzh.; SOKOLOV, L.D., prof., doktor tekhn.nauk; SHIBOKOV, V.H., prof. Investigating the 740 cold rolling mill for thin sheets. Izv. vys.ucheb.zav.; chern.met. 2 no.8:143-148 Ag 159. (MIRA 13:4) 1. Sibirskiy metallurgicheskiy institut. Rekomendovano kafedroy mekhanicheskogo oborudovaniya metallurchiskikh zavodov Sibirskogo metailurgicheskogo instituta. (Rolling mills) = 1.1.7.7.9.9.9.9.9.9.9.9.9.9. STATISTICS CONTRACTOR STATISTICS



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SOV/137-58-10-20859

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 73 (USSR)

Veksin, I.N., Grebenik, V.M., Sokolov, L.D., Shirokov, V.N. AUTTORS:

An Investigation of the Bearing Capacity of a Nr 425 Cold-TITLE: rolling Sheet Mill (Issledovaniye nesushchey sposobnosti listovogo stana 425 kholodnoy prokatki)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr l, pp 160-178

The methods and results of measurements of rolling ABSTRACT: forces, stresses in the housings, and torque moments of the electric motor in cold rolling on a 425 sheet mill. The major measurements were taken on 2 stands. The electrical characteristics were taken simultaneously at 3 stands and the coiler. Measurement of the forces of rolling steel-strip grades 2, 10 SP, 85, 65, E3A, 50, U7A, U10A, 08PS, and 08KP in the cold and hot conditions is made by hydraulic capsules with wire strain gages. The hydraulic capsules are placed only under the left screwdowns (S). Measurement of stresses in the housings is made by wire resistance strain gages at 9 points which are shown by analysis to take the maximum stresses. In

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SOV/137-58-10-20859

An Investigation of the Bearing Capacity (cont.)

investigating the electric drives, measurement was made of armature current, field current, and the voltage on the armature of the rolling-mill motors, coilers, and screwdowns. The S stresses do not exceed 80 t, and the stresses in the housings do not exceed the permissible level. The mean stressing of rolling-mill motors in terms of current, moment, and power is 30-50%.

M.Z. 1. Rolling mills--Performance 2. Rolling mills--Electrical properties 3. Rolling mills--Test methods

Card 2/2

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BAKLUSHIN, I.L.; VEKSIN, I.N.; LYULENKOV, V.I.; SABANTSEV, V.P.; SOBOLEV, A.P.; SOKOLOV, L.D.; SHIROKOV, V.N.

Analyzing the reserve strength of the 1100 blooming mill stand in the Kuznetsk Metallurgical Combine. Izv. vys. ucheb. zav.; chern. met. 7 no.2:205-212 '64. (MIRA 17:3)

1. Sibirskiy metallurgicheskiy institut.

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YEKSIN, I.N., inzh., kand.tekhn.nauk, dots.; GREHENIK, V.N., doktor tekhn. nauk, prof.; SOKOLOV, L.D.; SHIROKOV, V.N., prof. Investigating the carrying capacity of 425 sheet mills for cold rolling. Izv. vys. ucheb. zav.; chern. metal no.1:160-178 Ja '58. (MIRA 11:5) I.Sibirskiy metallurgicheskiy institut. (Rolling mills)

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## CIA-RDP86-00513R001859230012-0

VEKSIN, I.N., inzh.

K.

Characteristics of the motion of the ESh UZTM excavator during hydraulic braking. Izv.vys.ucheb.zav.;mashinostr. no. 12:140-149 '63. (MIRA 17:9)

1. Mogilevskiy mashinostroitel'nyy institut.

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SOKOLOV, L.D.; SHIRCKOV, V.N.; GREBENIK, V.M.; VEKSIN, I.N.; BAKLUSHIN, I.L.; LYULENKOV, V.I.; SABANTSEV, V.P.

Experimental and rated determination of forces in cold rolling. Izv.vys.ucheb.zav.; chern.met. 4 no.6:191-193 161. (MIRA 14:6)

1. Sibirskiy metallurgicheskiy institut. (Rolling (Metalwork))

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SOKOLOV, L.D.; SHIROKOV, V.N.; GREBENIK, V.M.; <u>VEKSIN, I.N.</u>; BAKLUSHIN, I.L.; LYULENKOV, V.I.; SABANTSEV, V.P.; KAZANTSEV, A.A.

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Investigating stresses in models of steel pouring ladles. Izv. vys. ucheb. zav.; chern. met. 4 no.10:147-156 '61. (MIRA 14:11)

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References and the second s

ALEYNIKOV, A.I.; BAKLUSHIN, I.L.; VEKSIN, I.N.; VOSKRESENSKIY, V.A.; GONCHAROV, O.M.; LYULENKOV, V.I.; SHIROKOV, V.N. Investigating the throw mechanism of a charging machine on ferroalloy furnaces. Izv. vys. ucheb. zav.; chern. met. 6 no.6:204-208 '63. (MIRA 16:8)

> 1. Sibirskiy metallurgicheskiy institut. (Metallurgical furnaces--Equipment and supplies)

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LER,G., - nauchnyy sotrudnik
At the walls of the Belyi Gorod. Nauka i zhizn' 28 no.1:56-57 Ja '61. (MIRA 14:1)
1. Muzey istorii i rekonstruktsii Moskvy. (Moscow-Excavations (Archaeology))