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LITERATURE CLASSIFICATION

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TREADER G. MA. H.

S. N. Ushakov and Y a. H. Freidberg

"The Synthesis of m-Iodostyrene." Reports of the Academy of Sciences, USSN, Department for Cherrical Sciences, 1950, 268-275, Leningrad, Scientific Research Institute for Polymerization-Plastics.

ABSTRACT AVAILABLE

D-0054

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USSR/ Ana. Subs	lytical Chemistry. Analysis of Inorganic G-2 stances.
Abs Jour:	Referat. ZhurKhimiya, No. 8, 1957, 27151.
Author :	L.I. Chuyenko, M.V. Freyde.
Inst :	All-Union Scientific Research Institute of Geology.
Title :	Determination of Strontium and Barium in Barytic Rocks Containing either No Calcium, or Small Amounts Thereof.
Orig Pub:	Inform. sb. Vses. ni. geol. in-ta, 1956, No. 3, 128 - 131.
Abstract:	The quantitative determination of alkali elements is carried out by precipitation of $BaCrO_4$ and separation of moist nitrates of Sr and Ca by the acetone method, if their contents in the sample were small (1 to 3% of Sr and tenths of a percent
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的形式的复数

USSR/ Analytical Chemistry. Analysis of Inorganic G-2 Substances. Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27151. of Ca). After the precipitation of $BaCrO_4$, the filtrate is acidified with HCl, 2 to 4 ml of 1.5%-ual CaCl₂ solution, saturated (NH₄)₂C₂O₄ solution and ammonia are added, the mixture is boiled and kept in a warm place 2 to 4 hours. The oxalates are filtered off, washed, dissolved in HNO3 and precipitated again. The reprecipitated oxalates are filtered off 2 to 3 hours later, washed and calcined into oxides, which are dissolved in HNO3 and condensed by evaporation to the state of moist salts. If the content of CaO was \leq 0.03 g and that of SrO was \leq 0.05 g, 20 to 25 ml of acetone are added and stirred energetically 2 to 3 hours in cool. The insoluble residue of $Sr(NO_3)_2$ is filtered off, washed with acetone 4 to 5 times, dissolved in water and precipitated Card 2/3

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USSR/ Analytical Chemistry. Analysis of Inorganic G-2 Substances.
G-2
Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27151
with sulfuric acid (1 : 1); the precipitate of SrSO₄ is calcined until its weight remains constant and weighed. The acetone solution is evaporated, HNO3 is added and it is diluted with water; Ca is precipitated with ammonium oxalate; the precipitate is calcined until it is converted in CaO.

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C. LEW STRUCT

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FREYDEL', R.R.

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The RPP-09 automatic electron potentiometer (compensator). [Izd.] Sekts. prib. tepl. kontr. LONITOPRIBOR no.2:189-206 '54 (Potentiometer) (KLRA 8:6)

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TEN HARMAN CARE



APPROVED FOR RELEASE: 06/13/2000

SOV/112-59-3-5257 9(6) Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 3, p 136 (USSR) AUTHOR: Kurushin, A. S., and Freydel', R. R. TITLE: New Electron Measuring Devices (Novyye elektronnyye pribory) PERIODICAL: V sb.: Atom. energiya v mirnykh tselyakh. L., Gosenergoizdat, 1957, pp 209-210 ABSTRACT: A short announcement of general-purpose automatic electron devices for measuring, recording, and controlling temperature from -200 to +2,500 °C, pH, air humidity, and gas humidity; the instruments are built at the "Lenteplopribor" plant. The plant also manufactures automatic instruments for remote control used in the atomic industry. An EPPV-51 electron device is intended for measuring currents 0 to 2.6×10^{-8} amp, 8.5×10^{-9} amp, 2.6 x 10⁻⁹ amp, and 6×10^{-10} amp. An EPPV-21 modification of this instrument permits transmitting the readings at a distance up to 200 m to an EMP-69 secondary instrument. Type AESM-50 instrument is intended for remote Card 1/2

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New Electron Measuring Devices	SOV/112-59-3-5257
measuring of small currents in the scale spans 0-3 Type EPI-50 instruments permit measuring low vo points.	30 and 0-300 microamp. Itages at more than 200
	E.A.Ye.
Card 2/2	



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S/123/61/000/007/018/026 A004/A104

CIA-RDP86-00513R000413620017-7"

AUTHOR: Freydel', R.R.

TITLE: New devices of the "Lenteplopribor" Plant

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1961, 7, abstract 7D64 (V sb.: Teploenerg. i khimiko-tekhnolog. pribory i regulyatori. Moscow - Leningrad, Mashgiz, 1959, 141 - 152)

TEXT: It is pointed out that, owing to the modernization of the $\Im \Pi - 09$ (EPP-09) electronic automatic potentiometer, the possibility is reduced of a misalignment occurring between the positions of the carriage recording drum and the multiple-point throwover switch. The plant has designed: 1) stepped ($\mathbb{M}\Pi$ -01 (SIP-01) pulse circuit breaker, converting continuous signals of the position regulating device into interrupted ones. The duration of the pulse transmission period is 15, 30, 60, 120 seconds. 2) $\mathbb{M}\Pi$ -01 (IPU-01) measuring and checking device manufactured in the form of a portable metallic suitcase with the dimensions 480 x x 260 x 260 mm. With this device it is possible to check: a) the measuring circuits of electronic automatic potentiometers, balanced bridges, and other electric measuring devices for temperature measurements; b) sensitivity and reversal of Card 1/2

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New devices of the "Lenteplopribor" Plant	S/123/61/000/007/018/026 A004/A104	
d-c and a-c amplifiers; c) vibration converters as to t making and breaking of a circuit, and connecting symmetr trol device operating with the aid of signal lamps; e) and isodromic control and actuating mechanisms; f) inst for the electric and isodromic control. 4) Devices with former induction measuring system.	y; d) three-position con- attachment of proportional	
	G. Flidlider	
[Abstracter's note: Complete translation]	·	
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33169	
\$/148/61/000/011/014/018	
9,2100 (1001, 1153,1385) E193/E383	
AUTHORS: Mes'kin, V.S., Sergiyenko, R.I., Popova, L.A. and Freydel', R.R.	
TITLE: Search for corrosion- and wear-resistant alloys for precision electrical resistance devices	1
PERIODICAL: – Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, nos 11, 1961, 159 - 164	
TEXT: The conventional electrical resistance alloys, exemplified by manganin and similar Cu-Ni-Mn alloys, although satisfactory from the point of view of the electrical properties, have a low resistance to the action of some corrosive media (sulphur-bearing or ammoniacal atmospheres) and are not always suitable for service in tropical or marine surroundings. A hard-wearing alloy, free from these limitations, would solve many design problems and it was for this reason that the present investigation, concerned with Pd-W and Pd-Mo alloys, was under- taken. The experimental specimens were prepared by drawing molten alloys into quartz tubes $(2.3 - 3 \text{ mm in diameter})$, pre- heated to 800 °C and swaging the resultant rods to $1.2 - 1.5 \text{ mm}$ Card $1/8$	T
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Search for corrosion-and	33159 S/148/61/000/011/014/018 E193/E383	
in diameter. After a series of e of practical interest were drawn diameter which were then used for trical resistivity, C, temperatur resistance, α_{c} , and thermo-emf ag measurements were taken on specim approx. 50% reduction or vacuum-ar reproduced graphically. In Fig. 1, C (ohm mm ² /m, graph a E (μ V/C, graph) are plotted at in the Pd-W alloys, vacuum-anneal Fig. 1 has been divided into two 1 hand side relating to branch 1; by circles had been obtained early A.A. Rudnitskiy - Tzvestiya sektor 1949, no.23, 101). Since the temp in the 15 - 90 °C range was linear Card 2/ 2 5	to wires $0.2 = 0.25$ mm in the determination of elec- e coefficient of electrical ainst copper, E The ens either cold-worked to nnealed. The results are), α_{c} (x 10, graph $\frac{1}{2}$) and gainst the W content (wt.%) ed at 700 °C; the curve in branches. scale on the right experimental points denoted ier (Ref. 1: V.A. Nemilov, ra platiny IONKH AN SSSR.	

33169 5/148/61/000/011/014/018 Search for corresion- and E193/E383 relate the entire 15 - 90 $^{\rm O}C$ range. The concentration dependence of $_{\rm O}$ and E of the Pd-Mo alloys is demonstrated in a similar manner in Fig. 3a, $rac{1}{5}$ and m (B), respectively. It will be seen that in respect of their electrical properties the Pd-Mo alloys are inferior to Pd-W alloys. Since, in addition, they have some other shortcomings, the most promising of the Pd-W alloys (i.e. the 20% W-Pd alloy) denoted by a code mark file 20 (PV20) was selected for further tests. The results of contact resistance measurements, carried out on wires 0.25 mm diameter, are reproduced in Fig. 4, where the contact resistance (ohm) is plotted against the contact pressure (g), Curves 1-5 relating to the following experimental conditions: 1 - PV20 in contact with itself (both wires vacuum-annealed at 800 $^{\circ}$ C); 2 manganin in contact with manganin; 3- PV20 in contact with PV20; both specimens preliminarily held for 24 h in a sulphurous atmosphere (0.02 g of SO₂ per 1 dm³ of air); 4 - PV20 in contact with PV20; both wires preliminarily held for 24 h at 55-60 °C Card 31日 (46-28

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in air of 98% humidity; 5 - PV20 in contact with PV20, both wires preliminarily held for 36 h in a 25% ammonia solution (it is stated in this connection that contact resistance between manganin wires held preliminarily for 24 h in ammonia solution was infinitely large). In the next series of experiments the stability of ρ was studied. The specimens were heated in air at 100 °C for 3 h and after a 24 h interval their () at room temperature was measured, this treatment being repeated several times The results are reproduced in Fig. 5, where the change in resistivity (%) due to cyclic heating is plotted against the total time (hours) at 100 °C, Curves 1 - 3 relating to various PV20 specimens, Curve 4 to manganin (the effect of similar treatment in boiling water was more pronounced, the increase in \hat{v} of PV20 after 25 cycles amounting to 1.75%). Since after cyclic heating of the PV2O alloy its ρ at room temperature remained practically constant, this treatment should provide effective means of stabilizing ρ of this alloy. UTS and elongation of PV20 were respectively, 133 kg/mm 2 and 1% in Card 4/ C

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Search for cor	rosion- and	S/148/61/000/011/014/018 E193/E383
much better th strength combi the PV20 alloy this alloy is	an -resistance of th an that of manganin ned with good wear- v suitable for some inferior to mangani	2. kg/mm ² and 25.5% after is alloy was also found to be i. It was concluded that high and corrosion-resistance render applications. Since, however, n in respect of its electrical should be continued for a
material with time, would be	better electrical p cheaper and easier gures and 5 referen	ronortios which the
ASSOCIATION:	ostroyeniya i zavo	te of Aviation Instrumente and
SUBMITTED:	February 22, 1961	
Card 5/8 5		



2.17

VASIL'YEV, G.V., inzh.; FREYDEL', R.V., inzh. Automatic control, regulation, and signalization on the whaling and whale processing plant "Slava." Sudostroenie 25 no.7:15-18 (MIRA 12:12) л '59. (Whalers) (Automatic control) a se se and the second second second second second second second Construction of the second second second second (二)日 (同) (四)

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	ACC NR: AP7001520 (N) SOURCE CODE: UR/0229/66/000/011/0060/0061	·
	AUTHOR: Freydel', R. V.	
	ORG: None	
	TITLE: Use of molykote in maritime machine building	
	SOURCE: Sudostroyeniye, no. 11, 1966, 60-61	
	TOPIC TAGS: molybdenum disulfide, machine tool, solid lubricant, marine equipment	
	ABSTRACT: The author discusses the lubricating properties of natural molybdenum di- sulfide (molykote) with application to maritime machine building. Methods of surface treatment are briefly considered as well as various procedures for application of the lubricant to metal surfaces. These procedures include holding in an aqueous suspen- sion for 5-20 minutes with subsequent drying at $60-80^{\circ}$ C, rubbing with molykote powder, brush application with subsequent baking, rubbing with a special pencil, spraying (useful for parts with complex configurations) and ultrasonic application (where the surface requires no chemical cleaning). Data are given on the use of molykote to in- crease the durability of bits, cutting tools, dies, punches, etc. Lubricants based on molybdenum disulfide mixed with mineral oils in various consistencies and with and various types of cargo-handling equipment. It is pointed out that molykote is used on some non-Soviet ships for lubricating the piston rings and cylinder sleeves in the main engine. Orig. art. has: 1 figure.	
	SUB CODE: 13, 11/ SUBM DATE: None/ ORIG REF: 001/ OTH REF: 002	
	Card 1/1 UDC: 669.28	
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BAYEVSKIY, R.M.; ZIL'BERTAL', YO.A.; KRUZENSHTERN, V.M.; FREYDEL', V.R. Use of automatic logical devices for medical control. Biul. eksp. biol. 1 med. 56 no.88116-120 Ag '63. (MIRA 1737) 1. Predstavleno deystvitel'nym chlenom AMN SSSR V.V. Parinym.

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AKULINICHEV, I.T.; ANDREYEV, L.F.; BAYEVSKIY, R.M.; BAYKOV, A.Ye.: BUYLOV, G.G. GAZENKO, O.G.; GRYUNTAL', R.G.; ZAZYKIN, K.P.; KLIMENTOV, Yu.F.; MAKSIMOV, D.G.; MERKUSHKIN, Yu.G.; MONAKHOV, A.V.; PETRCV, A.P.; RYABCHENKOV, A.D.; SAZONOV, N.P.; UTYAMYSHEV, R.I.; <u>FREYDEL'</u>, V.R.; KHIL'KEVICH, B.G.; SHADRINTSEV, I.S.; SHEVANDINA, S.B.; ESAULOV, N.G.; YAZDOVSKIY, V.I.

> Method and means of medical and biological studies in a space flight. Probl. kosm. biol. 3:130-144 '64. (MIFA 17:6)

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L 03179-67 ACC NR: AP6033118 SOURCE CODE: UR/0239/66/052/010/1273/1275	
AUTHOR: <u>Bayevskiy, R. M.</u> (Moscow); <u>Ivanov, V. A.</u> (Moscow); <u>Monakhov, A. V. (Moscow);</u> <u>Freydel', V. R. (Moscow)</u>	
ORG: none 4.2	
TITLE: The pneumocardiophone \mathcal{V}	
SOURCE: Fiziologicheskiy zhurnal SSSR, v. 52, no. 10, 1966, 1273-1275	
TOPIC TAGS: human physiology, respiratory physiology, circulatory physiology, medical equipment, pulse rate, respiration rate, biotelemetry, pneumocardiography, PHY 3/04067C PARAMETER, 6/04067C RESPIRATION, PHONOCARDIOORAPH'1 ABSTRACT: A simple system for continuously monitoring pulse and respiration rates over long periods of time is described. A record can be made with any single- channel recorder; the output can also be connected with an amplifier-speaker system or displayed on an oscillograph. Signals from a respiration sensor in which make- and-break is accomplished by expansion and contraction of the rib cage, and cardiac biocurrents, are used as input signals. Silver electrodes 18-20 mm in diameter are held over the fifth intercostal space along the medial axillary line by an elastic harness to which the respiration sensor is also attached (see Fig. 1). The basic idea of the system is the single-channel recording of two parameters. This is done by shaping cardiac biopotentials corresponding to the R rhythm into square pulses whose duration or amplitude is determined by the respiration sensor. Respira-	
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inhalation (co	150 msec duri ontact open).	These pul	ses can als	o be use	d to genera	00 msec during te an acoustic
recorded pneur	2 shows EKG nocardiophone	(1 and 2) a (4) trace.	ind pneumogr Orig. art	am (3) t . has:	races, and a 3 figures.	simultaneously
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STRELOV, K.K.; MAMYKIN, P.S.; Prinimali uchastiye: BAS'YAS, I.P.; BICHURINA, A.A.; BRON, V.A.; VECHER, N.A.; VORCB'YEVA, K.V.; D'YACHKOVA, Z.S.; D'YACHKOV, P.N.; DVORKIND, M.M.; IGNATOVA, T.S.; KAYBICHEVA, M.N.; KELAREV, N.V.; KOSOLAPOV, Ye.F.; MAR'YEVICH, N.I.; MIKHAYLOV, Yu.F.; SEMKINA, N.V.; STARTSEV, D.A.; SYREYSHCHIKOV, Yu.Ye.; TARNOVSKIY, G.I.; FLYAGIN, V.G.; FREYDENBERG, A.S.; KHOROSHAVIN, L.B.; CHUBUKOV, M.F.; SHVARTSMAN, I.Sh.; SHCHETNIKOVA, I.L.

> Institutes and enterprises. Ogneupory 27 no.11:499-501 '62. (MIRA 15:11)

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GERMAIDZE, G.Ye.; KORSHUNOV, V.S.; KHOROSHAVIN, L.B.; FREYDENBERG, A.S.; GAMZA, D.N., red.

> [Heating up and rapid fritting of open-hearth furnace hearth bottoms]Razpgrev i skorostnoe navarivanie poda martenovskikh pechei. [By] G.E.Germaidze i dr. Moskva, Metallurgiia, 1964. 110 p. (MIRA 17:11)

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FREYDENEERG, A.S.; DIKSHTEYN, Ye.I.; TRIFONOV, A.G.; ARTAMONOV, M.P.; TVUROGOV, A.R.; SHAKHLIN, V.I.; TARASOV, A.P.
Repair of tapping holes on open-hearth furnaces. Metallurg 9 no.7:20-22 J1 %. (MIRA 17:8)
1. Magaitogorskiy metallurgicheskiy kombinat.

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BARYSHNIKOV, G.I.; FREYDENBERG, A.S.; GUDOV, V.I. Rapid reconditioning of an open-hearth furnace hearth. Metallurg 10 ho.5:17-19 My '65. (MIRA 18:6) ÷ .

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SHCHEKIN, V.A.; ABDURAZAKOV, A.U.; YERSHOVA, Ye.M., kand. sel'khoz. nauk, otv. red.; FREYDENBERG, E.D., red.; GUBAYDULLIN, S., tekhn. red.

> [Fundamentals of animal husbandry] Osnovy zhivotnovodstva; uchebnik dlia uchashchikhsia IX klassov srednei shkoly. Izd.2. Tashkent, Sredniaia i vysshaia shkola, 1963. 136 p. (MIRA 17:1)

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法法律实际证明问题

ILUTIONERIO, L.J., rodaktor; RAKMATULLIN, F., tokhnicheskiy rodaktor [Avanced experience in silviculture in Central Asia] Peredovol oyt lesoraavedeniis v Srednei Asii. Tashkent, Gos. ind-vo UKSN. No.2. 1955. 69 p. (MIRA 9:10) . Sredneasiatskiy nauchno-iseledovatel'skiy institut lesnogo khozyaysta. (Soviet Central Asia--Forests and forestry)

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 FREYDENFEL'D, E.Ch.
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SOV/137-58-7-14484 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 79 (USSR) AUTHORS: Freydenfel'd, E.Zh., Sedmalis, U.Ya. TITLE: Possibilities of Utilization of Manganous Open-hearth Slags for Production of Binder Compounds (Vozmozhnosti ispol'zovaniya margantsovistykh martenovskikh shlakov dlya proizvodstva vyazhushchikh veshchestv) PERIODICAL: Zinatn. raksti. Latv. Univ., Uch. zap. Latv. un-t, 1957, Nr 14, pp 173-178 ABSTRACT: The open-hearth slags (S) investigated were taken from the waste of the Liyepaya "Krasnyy metallurg" [Red Metallurgist] plant (the S were primarily nongranulated). A sample of S of the following chemical composition was employed: 28.3% SiO₂, 37.0% CaO, 9.5% MgO, 9.4% Fe₂O₃, 6.2% Ål₂O₃, 7.9% MnO, 1.5% P₂O₅. Eleven various mixtures were prepared (the only addition being sand, sand and gypsum, sand and Portland cement, sand and CaO and CaC2). It was found that after being ground in a ball mill or a vibrating mill, the nongranulated S of the plant indicated exhibit a $\sigma_b \text{ compr.}$ of ~40 kg/cm² after Card 1/2having been stored in a moist medium for a period of 28 days.

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2 A.

FREYDENFEL'D, E.Zh.; APSITIS, A.A.; FRITSBERG, V.Ya.

Studying the crystal phases and some dielectric properties of components of the system $CaO - BaO - TiO_2$. Izv. vys. ucheb. zav.; fiz. no.4:68-71 '59. (MIRA 13:3)

1. Latviyskiy gosuniversitet im. P. Stuchki i Rizhskiy politekhnicheskiy institut.

(Titanium oxide) (Barium oxide) (Calcium oxide)

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AUTHORS:	Fritsberg, V. Ya., Fr	eydenfel'd, E.	Zh.; and Kruchan, Ya. Ya	l.
TITLE: A	Dielectric Properties <u>PbTi0</u> - SrTi0, - "Bi	Mand Structure 2/3 ^{TiO} 3" Syste	of Solid Solutions of them	ne
PERIODICAL:	Izvestiya Akademii na Vol. 24, No. 11, pp.	uk SSSR. Seriy 1387-1390	a fizicheskaya, 1960,	
Conference on	s the reproduction of <u>Ferroelectricity</u> whic O. The authors studied	h took place i	n Moscow from January	
$SrTiO_3 - "Bi_2$ a state with preparation o	/3 ^{Ti0} 3" system from th relaxation polarizatio f the ceramic specimen	e typical seig n. The initial s were PbO, Bi	mettoelectric state intendent $\frac{1}{2}$, materials used for the $\frac{1}{2}$, TiO ₂ , and SrCO ₃ . The	
analyses of t were measured	he specimens were accu by the usual methods	rate within 1. in a wide freq	,5% by weight. \mathcal{E} and tan δ quency and temperature	
Card 1/4				
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85886 s/048/60/024/011/022/036 Die]ectric Properties and Structure of Solid Solutions of the PbTiO₃ - SrTiO₃ - "Bi_{2/3}TiO₃" B006/B060 System range, the seignettoelectric properties were studied at 50 cps, the X-ray analyses were made with an X-ray diffractometer of the type YPC-50N (URS-50I). The determination of the lattice parameters by the counting technique was accurate within ±0.002 kX. Two sections were examined in the ternary system (Fig. 1), wherein the ratios of SrTiO, and PbTiO, were constantly equal to 7:3 (A) and 4:6 (B), while the " $Bi_{2/3}TiO_3$ " concentration varied from one compound to another. It was established by X-ray analysis that there actually is a range of solid solutions in the system and that the compounds of section A have a pseudocubic structure under only slight additions, while those relative to B are tetragonal (at room temperature). The lattice parameters of different compositions are given. Fig. 2 shows $\varepsilon(t)$ and Fig. 3 shows ε and tan δ as functions of temperature t for compounds of section A and section B for different "Bi_{2/3}TiO₃" additions of 1 - 3 and 0 - 40 mole^{*}. The following rules were established: 1) An increase of the "Bi2/3TiO3" content on a variation of Card 2/4

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85886 S/048/60/024/011/022/036 Dielectric Properties and Structure of Solid Solutions of the PbTiO₃ - SrTiO₃ - "Bi_{2/3}TiO₃" B006/B060 System the ratio of $PbTiO_3$ and $SrTiO_3$ gives rise to an increase of the lattice tetragonality, while the phase transition shifts toward higher temperatures. 2) If there is more PbTiO3 than SrTiO3, the seignettoelectric character of the initial substance is basically conserved under an increase of the "Bi_{2/3}TiO₃" addition. 3) If, on the contrary, SrTiO₃ prevails, the introduction of the addition will give rise both to a shift of the phase transition to higher temperatures and to an enlargement of the phase transition region; at the same time, a relaxation can be observed in the dielectric polarization. The increase of lattice tetragonality on the introduction of the addition can be explained by the high polarizability of the bismuth ion. The authors finally thank G. A. Smolenskiy for having proposed the subject and for his supervision, as well as I. Ye. Myl'nikova for advicc given in regard of the preparation of specimens. There are 3 figures and 6 references: 5 Soviet and 1 Japanese. Card 3/4

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SOLUCIOUS OI	operties and Structure of S the PbTiO ₃ - SrTiO ₃ - "Bi _{2/2}	85886 olid S/048/60/024/011/022/0 ^{TIO} 3" B006/B060	36
System			
ASSOCIATION:	DVGVC UNIVERSILV IMONI PAta	; im. Petra Stuchki (<u>Latvian</u> <u>Stuch</u> ki). Rizhskiy (<u>Riga Polytechnic Institute</u>)	- 🔨
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A CALENDARY OF THE OWNER OF THE O		enner einer um erfehenstellen volkene soch soch bestähligen.	

20303 S/081/61/000/016/006/040 15.2650 24,7500 (1160) Freydenfel'd, E. Zh., Fritsberg, V. Ya., Kruchan, Ya. Ya. AUTHORS: Effect of addition of SiO2 on the properties of polycrystalling TITLE: BaTi03 PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1961, 38, abstract 166250 (Uch.zap.Rizhsk.politekhn.in-ta, 2, 1959, 115-127) Addition of SiO₂ to BaTiO₃ (I) causes a decrease of the parameters and the tetragonality of the elementary cell, irrespective of the method of addition. This is obviously related to the formation of a solid solution of the substitution type. Of the new phases, the compound $BaTiSiO_5$ is formed first of all. Addition of SiO_2 shifts the Curie point of I by $25 - 30^{\circ}$ C toward high temperatures, which also confirms the formation of a solid solution. Addition of SiO2 lowers the dielectric constant and changes the parameters of the dielectric hysteresis loop. The residual Card 1/2

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 $2\delta_{303}$ Effect of addition of SiO₂ ...

S/081/61/000/C16/006/040 B118/B101

polarization is reduced while the coercive force is increased. If small amounts are added, the spontaneous polarization tends to increase, whereas it tends to decrease at high concentrations. [Abstracter's note: Complete translation.]

Card 2/2

	S/058/63/000/002/042/070 A062/A101	
AUTHORS:	Freydenfeld, E. Zh., Fritsberg, V. Ya., Kruchan, Ya. Ya.	
TITLE:	Dielectric properties and structure of solid solutions in the $CaTiO_3 - Bi_{2/3}TiO_3$ system	
PERIODICAL:	Referativnyy zhurnal, Fizika, no. 2, 1963, 64, abstract 2E420 ("Uch. zap. Rizhsk. politekhn. in-t", 1962, v. 6, 251 - 255)	
TEXT:	The existence of solid solutions was observed in the CaTiO ₃ - $\frac{B_2}{3}$	
system for a	content of Bi $_{1}$ T10 up to 25 20 at = 3 2/3 3	
sity, the mi	a content of $\text{Bi}_{2/3}\text{Ti0}_3$ up to 25 - 30 mol%. In the indicated ceramic solt is, the water absorption, the lattice constant, the roentgenographic der crohardness and the dielectric properties were investigated. It is t room temperature the crystal lattice is cubic, and that the lattice reases with the increase of the content of Di	
shown that a constant inc permittivity ponent incre maximum of a	reases with the increase of the content of $Bi_{2/3}TiO_3$. The dielectric \mathcal{E} of the solid solutions increases as the content of the second com- ases (from 150 to 220), and also as the temperature decreases. No	
shown that a constant inc permittivity ponent incre maximum of a	reases with the increase of the content of $Bi_{2/3}TiO_3$. The dielectric \mathcal{E} of the solid solutions increases as the content of the second com-	
shown that a constant inc permittivity ponent incre maximum of a	reases with the increase of the content of $Bi_{2/3}TiO_3$. The dielectric \mathcal{E} of the solid solutions increases as the content of the second com- ases (from 150 to 220), and also as the temperature decreases. No	
shown that a constant inc permittivity ponent incre maximum of a	reases with the increase of the content of $Bi_{2/3}TiO_3$. The dielectric \mathcal{E} of the solid solutions increases as the content of the second com- ases (from 150 to 220), and also as the temperature decreases. No	



	S/196/63/000/002/011/026 E194/E155	
UTHORS :	Freydenfel'd, E.Zh., Fritserg, V.Ya., and Kruchan, Ya.Ya.	•
TITLE :	The dielectric properties and structure of solid solutions in the system CaTiO ₃ - BaTiO	
PERIODICAL:	Referativnyy zhurnal, Elektrotekhnika i energetika, no.2, 1963, 15, abstract 2 B 77. (Zinatn. raksti. Rigas politehn. inst., Uch. zap. Rizhsk. politekhn. in-ta, v.6, 1962, 251-255)	,
EXT:	Solid solutions of the system CaTiO - Ba _{2/3} TiO ₃ were	
	i to find whether they show seignette-electric phase- by analogy with solid solutions of SrTi03-Bi2/3 ^{Ti0} 3,	
hat the re	relaxation effects are observed in them. It is shown gion of solid solutions of the systems investigated is concentrations of 25-30% mole Bi _{2/3} TiO ₃ . At room	
ad a cubic	X-ray structural analysis showed that the compositions lattice in which the lattice constant a increased on the content of $Bi_{2/3}^{Ti0}$. The table gives results of a	
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ſ	s/196/63/000/002/011/026	
	The dielectric properties and E194/E155	
	study of the physical-chemical and ceramic properties of solid solutions of the system studied. Values of ε and tan δ of solid solutions were studied as functions of temperature in the range from 73 °K (-200 °C) to 423 °K (+150 °C), in the frequency range of 100 c/s to 200 kc/s. On increasing the concentration of Bi _{2/3} TiO ₃ an increase in ε is observed. However, the temperature functions of ε and tan δ for solid solutions differ little from those for pure Ca TiO ₃ . To verify the presence of the seignette-electric phase-transition presupposed by the authors, it is necessary to continue investigations of the dielectric properties down to helium temperatures. The hysteresis loops and relaxation effects were not observed in the investigated systems down to the temperature of liquid air. 2 figures. 8 references.	
	[Abstractor's note: Complete translation.]	
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olar c ition, alcu- ated	-	Max.lst firing temp., °C	Max.2nd firing temp., °C	Water absor- ption, %	Lattice const.	able X-ray density g/cm ³	Micro- hardness kg/mm ³	
0 5 10 20 25 30 35	0 5.4 8.5 18.16 22.1 29.7 31.0	1300 1200 1200	1400 1400 1300 1300 1300 1300 1300 1250	14.00 0.24 0.22 0.08 0.91 0.02 0.01	3.822 3.819 3.821 3.827 3.831 3.831 -	4.02 4.20 4.37 4.69 4.84 5.02	- 395 412 470 420 583 609	
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	L 7836-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD	
	ACC NR: AP5028117 SOURCE CODE: UR/0048/65/029/011/2046/2049	
1 T	AUTHOR: Freydenfel ⁴ d, E.Zh.; Yanson, G.D.; Kruchan, Ya.Ya. 17	
	ORG: <u>Riga Polytechnic Institute</u> (Rizhskiy politekhnicheskiy institut); <u>Latvian State</u> University (Latviyskiy gosudarstvennyy universitet)	-
	TITLE: Ferroelectric properties of solid solutions of <u>bismuth</u> and <u>lanthanum</u> ferrites in <u>lend</u> metaniobate ⁴ /Report, Fourth All-Union Conference on Ferroelectricity held at Rostov-on-the Don 12-16 September 19647	
	SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2046-2049	
	TOPIC TAGS: ferroelectric material, solid solution, bismuth, lanthanum, ferrite, lead, niobate, dielectric constant, dielectric loss, Curie point, lattice parameter	
	ABSTRACT: Continuing their earlier work on lead metaniobate based heterovalent solid solutions, the authors have investigated the ferroelectric and other properties of the $PbNb_20_6 - Bi_2Fe_20_6$ and $PbNb_20_6 - La_2Fe_20_6$ systems in order to determine the offect of replacing divalent lead by trivalent bismuth and lanthanum, and pentavalent niobium by trivalent iron on the ferroelectric Curie point and other properties of lead	
	metaniobate and to explore the possibility of obtaining materials with peculiar dielectric and magnetic properties. The solid solutions were synthesized by solid state reaction of the oxides with double roasting in mir. After a preliminary 1 hour heating at 1100° the bismuth ferrite solutions were hold for 30 minutes at 1240-1270°,	
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L 7836-66 ACC NRr AP5028117			
and the lanthanum forrite solution systems solid solutions with the over a narrow range (up to about ties were studied, the lattice pre- were made, and the temperature de- dielectric loss were investigated acribed elsowhore by K.Zh.Freyder Sor. khim., 4, 345 (1963)). The revealed the transformation of Pl the formation of PbNb ₂ O ₆ at 530-8 electrics; the Curie point fell tent. The temperature at which the not vary with the measuring frequ- dielectric loss remained large be ductivity. Orig. art. has: 4 fell	potassium-tungsten bronze 10 mole %) of ferrite cont arameters were measured, di ependences of the dielectri d with experimental techniq mfel'd, G.D.Yanson, and O.S rmographic measurements wit bo from one modification to 850°. All the investigated rapidly in both systems wit the dielectric constant per uency over the range from 4 elow the Curie point, owing	structure were formed only tent. The ceramic proper- liatometric measurements ic constant and the ques that have been de- i.Maksimova (Izv. AN LatvSSF th a Kurnakov pyrometer o another at 280-350° and i solid solutions were ferred th increasing ferrite con- aked (the Curic point) did i to 200 kilocycle/sec. The	6 0-
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ACC NR: AP6030765 (A) ENT(m), ENP(L)/ET1 IP(c) JD	
AUTHOR: Yanson, G. D.; Bindar, Ye. L.: Makoin	
AUTHOR: Yanson, G. D.; Bindar, Ye. I.; Maksimova, O. S.; Freydenfel'c, E. Zh. ORG: Riga Polytechnic Institute (Rizhskiy politekhnicheskiy institut)	
inductions of formation of centrain la interview in the second se	
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TOPIC TAGS: stoichiometric mixture, lead oxide, lead compound	
PbNb ₂ O ₆ were wet-ground, pressed into disks, fired at 300-900°C for 30-180 min, sin- sition by chemical and x-ray methods. Lead niobate started at about 300 and phase compo- 550°C. Formation of lead titanate proceeded	
are close to one another. For $PbNb_2O_6$ it is somewhat lower because formation is a lower temperature. The Jander	
prikl. khimii, 23, 1249; 25, 718(1952) gives more satisfactory results for the deter-	
UDC: 546.815 : 531.1	
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FREYDENZCN, A. I. Cand. Tech. Sci.

Dissertation: "Dynamic Theory for Calculating the Rods of a Deep Gil Fump Considering Friction." Moscow Order of the Labor Red Banner Petroleum Inst imeni Academicain I. M. Gubkin, 3 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

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CIA-RDP86-00513R000413620017-7

Vibrations, Balancing FREYDENZON, A.I. Ayplive Mechanics Review s, and Z. T. Arustanevs, j. Treb Dynamic calculation of fills of this of pure 1633. J. A. Chern decing the friction forces against the pump tabes (in Russian), Isv. Akail. Nauk RSER for. tekh. Nauk 1949, no. 6, 855-878 (June 1049). The forced vibrations in a deep-well pamp rol are worked out The forced vibrations in a deep-well pamp rol are worked out on the basis of a force diagram measured at the upper end of the pump roll. Friction is included, the viscous-tamping coefficient being evaluated from the average input-work rate at the top of the reng cranation from the average separation rate at the report no real, and the average output-work rate in lifting a measured quan-tity of oil from the well bottom. The theory of longitudinal vibrations is worked out to give the leading on the plunger and the resultion of the absence. In amplying this there to use a rate f the motion of the plunger. In applying this theory to an actual oil-well installation, excellent agreement was obtained between the predicted motion of the plunger and the measured output of the well. moseow Petroleum Anat. im Butken 1 50 o the surface of the second 1310115 <u>他说明写</u>主义。

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FREYDENZON, V. M.

7645. FREYDERZON, V. M. -- Vosstanovleniye rezhushchego I meritel'nogo instrumenta. (opyt khar'k. zavoda transp. mashinostroyeniya). M., 1954. 52 B. B ill. 20 sm. (M-vo transp. mashinostroyeniya SSSR. Vsesoyuz. proyektnotekhnol. in-t voti. obmen tekhn. opytom. vyp. 2). 1.000 ekz. b. ts. -- avt. ukazan na 3-y s. -- (55-656zh) 621.91.02-77 & 621.803.3.77

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SO: Knizhnaya Letopsis', Vol. 7, 1955

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FREYDENZON, Ye.Z.; KALININ, A.I.

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Rebirth of a blocming mill. Metallurg 8 no.2:27-30 F '63. (MIRA 16:2) 1. Nizhne-Tagil'skiy metallurgicheskiy kombinat. (Rolling mills)

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Naymuchi	na, L. F. J Freydenzon,		
steel sh	leets and cections	mechanical properties of low-carbon and 10% alloy	*
SOURCE:	Stal', no. 6, 1965, 5	53-557	
- steel se	MS: Foughening, low c sction, steel beam, que ng tank, impact toughne	arboa steel, low alloy steel, sheet steel, ached steel, toughened steel, spray quanching, as	
heat tro consider field a	ectment requires substa r other techniques. Th t the Mizhniy Tagil Mat	ig of low-carbon and low-alloy metal by means of initial capital investments, it is of interest to be authors describe the work being done in this callurgical Combine with respect to the toughening hosted state immediately after its rolling or there were either interest in a mucrohing water	
forging tank in Cord 1/	stalled at the end of t	itrips were either issuersed in a quenching water the roller table or passed through an experimenta	1

CIA-RDP86-00513R000413620017-7

L 53978-65 ACCESSION NR: AP5014866 spray installation. For stabilization of the properties at the required level and enhancement of plasticity after the toughening by quenching in the tank, it is expedient to perform additional tempering by means of the svailable heattrestment equipment. In the spray installation the required level of properties can be attained by adjusting the pressure and delivery rate of the cooling water. The effect of temperature was more precisely determined in laboratory experiments with 3sp steel: cooling in water from temperatures corresponding to the zonophase (y) and two-phase (y + α) regions exects a marked and nearly identical toughening effect and produces an impact toughness (at +20°C) at the level of 8-10 kg-m/cm². In this way, the strength qualities of low-carbon metal could be increased 15-25%, and those of low-alloy metal, 30-50%, without detriment to plastic properties and impact toughness in the presence of negative temperatures and after mechanical aging. Toughening beyond these limits usually deteriorates the plastic properties of the metal. The uniformity of cooling over the area of the matal is of special importance. Orig. art. has: 4 figures, 5 tables. ASSOCIATION: Nizhne-Tagil'skiy metallurgicheskiy kombinat (Nizhniy Tagil Metallurgical Combine) 2/3 Card

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CIA-RDP86-00513R000413620017-7



BARANOV, V.M.; DONSKOY, S.A.; TORSHILOV, Yu.V.; TRET'TAKOV, M.A.; UDOV2NKO, V.G.; FRETDENZON, Ye.Z.

Blowing of cast iron in high-sapacity converters. Metallurg 10 no.9: 15-18 S '65. (MIRA 18:9)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.

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CIA-RDP86-00513R000413620017-7"

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FREYDENZON, Ye.Z.; PUSHKASH, 1.I.; IAMAFEV, B.L.; GLADYSHEV, V.I. Characteristics of making vanadium cast iron fron titanomagnetite ores from the Kachkanar deposit. Stal' 25 no.6: 492-497 Je '65. (MIRA 18:6) 1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.

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ARNAUTOV, V.T.; BARANOV, V.M.; BONSKOY, S.A.; PASTURHOV, A.I.; SMIRNOV, L.A.; TORSHILOV, YU.V.; TRET'YAKOV, M.A.; UDOVENKO, V.G.; FREYDENZON, Ye.Z.; SHCHEKALEV, YU.S.; Prinimali uchastiye: MAKAYEV, S.V.; KOMPANIYETS, G.M.; NAGOVITSYN, D.F.; NOVOLODSKIY, P.I.; VARSHAVSKIY, V.L.; KOROGCDSKIY, V.G.; KLIBANOV, Ye.L.: MEDVEDEVSKIKH, YU.; TALANTSEVA, T.I.; DUBROV, N.F.; DZEMYAN, S.K.; TOPYCHKANOV, B.I.; CHARUSHNIKOV, O.A.; KHARITONOV, YU.A.

Developing and mastering the technology of converting vanadium cast iron in oxygen-blown converters with a 100 ton (Mg) capacity. Stal! 25 no.6:504-508 Je '65. (MIRA 18:6)

1. Nizhne-Tagilskiy metallurgicheskiy kombinat (for Makayev, Eorga niyets, Nagovitsyn, Novolodskiy, Varshavskiy, Korogodskiy, Klibanov, Medvedevskikh, Talantseve). 2. Uralskiy nauc mo-issledovatelskiy institut chenykh metallov (for Eubrov, Dzemyan, Topychkanov, Chernahnikov, Kharitonov).

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KOKUSHKIN, D.P.; FREYDENZON, Ye.Z.; KOMPANIYETS, I.A.; SHMONIN, G.M.; LEBEDEV, A.A.; ZATULOVSKAYA, Ye.Z.; Prinimali uchastiye: DUBROV, N.F.; PASTUKHOV, A.I.; ISAYEV, N.I.; STAROSELETSKIY, M.I.; AKSEL'ROD, L.M.

Improving the quality of a faceted ingot by changing the shape of its side surfaces. Stal' 25 no.7;610-612 Jl '65. (MIRA 18;7)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov 1 Nizhne-Tagil'skiy metallurgicheskiy kombinat.

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FREYDENZON, Ye.Z.; FREYDENZON, Yu.Ye.; KOTSAR', S.L.; ZATULOVSKAYA, Ye.Z.; Prinimali uchastiye: KAS'YANOVA, K.S.; MIDRIK, L.Ya.; TIMOFEYEVA, T.D.; KOTEL'NIKOVA, Z.G.; VOYLOSHNIKOVA, A.I.; VASEVA, H.S.; GNATYUK, P.I.; MYKOL'NIKOV, A.A.; BURKSER, A.Ye.; PONER, D.M.; OGORODNIKOV, G.K.

> Developing an efficient shape for slab ingots. Stal: 25 no.6: 539-543 Je '65. (MIRA 18:6)

l. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Ye. Freydenzon, Yu. Freydenzon, Kotsar', Zatulovskaya).

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La state the Utility tool Recallupted Concribe the work being Con- the state the it still in in heated state impediately after its to the the destried at the end of the roller table or passed in a prost of 1/4	tospheaing Ling or Ling vater	
 tor, institut at the end of string were either instruction the is	tosphening lling or stog vater mparfrontel	
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and enhancement in expedient to treatment equip- end be attained water. The off experiments with to the sonoring identical town	of plasticity a perform addition ment. In the sp by adjusting the act of temperature h Bop stealt co a (v) and turgeth	instion of the pu ftor the toughest and tempering by ray installation a pressure and du ra was more proce- oling in water for and $(\gamma + \alpha)$ regions processes an imp-	ing by quent means of the the requir alivery rat lacly deter rea temperations exerts act toughne	ching in the available available available of the	the tenk, blo heat- of properi cooling loboratory reaponding and nearly 0°C) at th	it ties 5 7 10	•	•	•
could be increa detribute to pl temperatures an deterforates th dyer the area o 5 tables. AccontATCH N	ned 15-25%, and astic properties d after mechanic s plastic proper f the matal is o dichne-Tagil'shiy	those of low-all and impact toug al acting. Touch ties of the mata f special import matallurgichask	oy motal, 3 hacas in th ening beyon 1. The uni ance. Orig	10-50%, wi in presenc id these 1 Liornity o J. art. he	thout a of negai inits usus f cooling st 4 fig	tive ally			•
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FREYDENZON, Ye.Z.; FREYDENZON, Yu.Ye.; KOTSAR', S.L.; ZATULOVSKAYA, Ye.Z.; Prinimali uchastiye: KAS'YANOVA, K.S.; MUDRIK, L.Ya.; TIMOFEYEVA, T.D.; KOTEL'NIKOVA, Z.G.; VOYLOSHNIKOVA, A.I.; VASEVA, R.S.; GNATYUK, P.I.; MYKOL'NIKOV, A.A.; BURKSEE, A.Ye.; PONER, D.M.; OGORODNIKOV, G.K.

> Developing an efficient shape for slab ingots. Stal' 25 no.6: 539-543 Je '65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Ye. Freydenzon, Yu. Freydenzon, Kotsar', Zatulovskaya).

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"AIONCHKOVSKIT, A.D., doktor tekhn.nauk; IABKO, Ya.M., kand.tekhn.nauk;
 FRETDGETH, K.I., nauchnyy sotrudnik; EERKSHTEIN, M.Kh.kand.tekh.nauk
 Development of the method of obtaining foams from a polyvinyl
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- COLD REAL PORT

ABRAMOVA, V.V., starshiy nauchnyy sotrudnik; PLOTNIKOV, I.V., kand. tekhn. nauk; FREYDGEIM; KrI; mladshiy nauchnyy sotrudnik; PISARENKO, A.P., doktor khim. nauk, prof.; PAVLOV, S.A., doktor tekhn. nauk, prof.
Manufacture of artificial suede type leather without salt washout. Nauch.-issl. trudy VNIIPIK no.14:156-163 '63. (MIRA 18:12)

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