CIA-RDP86-00513R000928630010-2

Study of the direct ...

S/064/63/000/002/002/005 B117/B186

very high and the dependence of the aluminum conversion on the durition of the process is almost linear like the curves of hydrogen consumption. The further S-shaped course of the curves is characteristic of successive reactions. The total rate of the process decreases as a result of the decreasing rate of hydration. With chemically activated aluminum the synthesis sets in spontaneously, but it proceeds more slowly. This is probably due to a partial removal of the inhibiting oxide layer during the activation of Al. If the powder granulated in the inert gas current is used the synthesis is preceded by an induction period. The duration of this depends on the temperature of the process, being 3 hr at 110°C and 0.5 hr at 150°C. A comparison of the linear sections of the kinetic curves obtained showed that the amount of aluminum conversion in the initial state of the synthesis (N 3 hr) can be used as criterion for estimating the reactive power of Al. Aluminum conversion depends on the synthesis temperature. At higher temperatures (150°C), its effectiveness is about 1.5 to 2 times higher than at 110°C. When mechanically and chemically activated aluminum is used the rate of the synthesis is determined by processes of mass transfer. The reaction proceeds in the diffusion range. The activation energy is 3.6 to 5.7 kcal/mole. In the case of the powder granulated in inert gas the rate of the synthesis is determined by one of the stages of direct synthesis. Card 2/3

APPROVED FOR RELEASE: 08/31/2001









ACCESSION NR: AP5010548	UR/0064/65/000/004/0014/0015 661786.211547.356.21313.4-1257166.091
AUTHORS: Antipin, L. M.; Zh	igach, A. F.; Larikov, Ye. I.; Popov, A. F.
TITLE: Direct synthesis of t	
SOURCE: Khimicheskaya promys	hlennost 1, no. 4, 1965, 14-15
	compound, hydration, alkylation, organic synthesis
ABSTRACT: The conversion of down after 2-3 hours treatmen	aluminum in triisobutylaluminum is complex, slowing t because of oxide coating. This conversion of
	nt methods was examined. No induction period, char-
aluminum activated by differe	
acteristic of single-stage sy	nthesis, was observed in any of the experiments. The
acteristic of single-stage sy rate of hydration increased w reacted completely in 3-5 hou	nthesis, was observed in any of the experiments. The fith rise in temperature. At 1500 the aluminum had wrs. Further heating at that temperature led to de-
acteristic of single-stage sy rate of hydration increased w reacted completely in 3-5 hou cline in content of aluminum	nthesis, was observed in any of the experiments. The ith rise in temperature. At 1500 the aluminum had are. Further heating at that temperature led to de- bound in the reaction products and to an increase of
acteristic of single-stage sy rate of hydration increased w reacted completely in 3-5 hou cline in content of aluminum aluminum in isobutane. This hydride. Such decomposition	nthesis, was observed in any of the experiments. The rith rise in temperature. At 1500 the aluminum had rrs. Further heating at that temperature led to us- bound in the reaction products and to an increase of is due to thermal decomposition of diisobutylaluminum may be suppressed by adding isobutylene/ to the
acteristic of single-stage sy rate of hydration increased w reacted completely in 3-5 hou cline in content of aluminum aluminum in isobutane. This hydride. Such decomposition reacting mass. Experiments a	nthesis, was observed in any of the experiments. The ith rise in temperature. At 1500 the aluminum had rs. Further heating at that temperature led to us- bound in the reaction products and to an increase of is due to thermal decomposition of diisobutylaluminum

ACCESSION NR: AP5010548			relet 🔿
of triisobutylaluminum. synthesized in two stages latter technique is emplo maintained in the first r in the last. Orig. art.	or, if in one stage, byed, an excess of did reactor, and an excess	in a cascade of re sobutylaluminum hyd	actors. When the ride should be
ASSOCIATION: none			
SUBMITTED: 00	ENGL: 00	SUB C	ODE: GC, OC
NO REF SOV: OOL	OTHER: OOL		
		49 - 2010 - 2010 - 2010 - 2010 - 2010 1999 - 2010 - 2010 - 2010 - 2010 2010 - 2010 - 2010 - 2010 - 2010 2010 - 2010 - 2010 - 2010 - 2010 - 2010 2010 - 2010 - 2010 - 2010 - 2010 - 2010	C'
		영영과 영화과 이상 전철 것	

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	UR/0286/65/000/009/0021/0021
CCESSION NR: AP5015237	
UTHORS: Sakharovskaya, G. B. edotova, R. I.	; Korneyev, N. N.; Larikov, Ye. I.; Zhigach, A. F.;
	g alkylalumoxanes] Class 12, No. 170493
OURCE: Byulleten' izobreteni	iy i tovarnykh znakov, no. 9, 1965, 21
OPIC TAGS: alkylalumoxene, a	aluminium alkyl, alkyl ester
BSTRACT: This Author Certifi y interacting aluminum alkyls conducted in the presence of s	icate presents a method for obtaining alkylalumoxanes s with water. To simplify the process, the reaction is simple alkyl esters.
SSOCIATION: none	
UBMITTED: 24Feb64	ENCL: 00 SUB CODE: OC
한국 비행기 백성 가장과 한국가 가지 않았었어요. 것 수가 있는 것 같아요. 나는 것 같아요. 이는 것 같아요.	OTHER: 000
10 REF 507: 000	
10 REF SOV: 000	

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1 65100-65 EWP(e)/EWT(m)/EW	P(t)/EWP(k)/EWP(z)/EWP(b) IJP(c) JD UR/0285/65/000/014/0023/0023
ACCESSION NR: AP5021971	669.71 : 547.419.6
	A. F.; Sil'vestrov, D. N.; Aronov, M. I.; Larikov,
AUTHCR: Zhigach, A. F.; Popov Ye. I.; Antipin, L. M.; Nazaro	V. S. 181, NOTHEYEV, III MAN
	44,55 12 No 172780 48
(Read-Self-Self-Self-Self-Self-Self-Self-Self	ng aluminum. Class 12, No. 172780 48 B
SOURCE: Byulleten' izobreteni	ly i tovarnykh znakov, no. 14, 1965, 23
TOPIC TACS: aliminim, DOWDER	metal production, powder metallurgy, aluminum powder
	ificate introduces a method for activating aluminum by n mill with a shielded electric drive. The method is
simplified by grinding the al	minim for 3-10 hours until the particle size is
0.5-1-µ.	
ASSOCIATION: none	같은 물건을 받는 것을 가지 않는 것 같은 것을 것을 하는 것을 것을 것을 하는 것을 하는 것을 것을 것을 것을 것을 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 것을 것을 했다. 것을 것을 것을 것을 것을 것을 것을 것을
SUBMITTED: 02Feb62	ENCL: 00 SUB CODE: MM
NO REF SOV: 000	OTHER: 000
<i>MHR</i> Card 1/1	

VOL'PIN, M.Ye.; ILATOVSKAYA, M.A.; LARIKOV, Ye.I.; KHIDEKEL', M.L.; SHVETSOV, Yu.A.; SHUR, V.B.

Nitrogen fixation on hydrogen-activating transition metal complexes. Dokl. AN SSSR 164 no.2:331-333 S '65.

(MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut khimicheskoy fiziki AN SSSR. Submitted February 15, 1965.

APPROVED FOR RELEASE: 08/31/2001

		<u>) - 1430.4465</u> 4
	L 02995-67 EWI(m)/EWP(1)/EMP(1)/ETI IJP(c) JD/HW/JW/RM/JH	
ſ	ACC NR: AR6033145 SOURCE CODE: UR/0064/66/000/010/0020/0022	e-
	Authors, Bornich Ve P. Thigach A. F.: Larikov, Ye. I.; Popov, A. F.	
	ORG: none 3	
	TITLE: Synthesis of methylaluminum sesquichloride and trimethylaluminum	
	SOURCE: Khimicheskaya promyshlennost', no. 10, 1966, 740-742	1.11
	TOPIC TAGS: methylaluminum sesquioxide, trimethylaluminum, our stop process, CHEMICAL synthesis, propellant, ALCIMINUM COMPOUND, CHLORIDE	
	ABSTRACT: Direct one-step preparative methods for methylaluminum sesquichloride (a mixture of $Al(CH_3)_2Cl$ and $AlCH_3Cl_2$) and trimethylaluminum are described. Methyl- aluminum sesquichloride was synthesized in a sealed reactor (Popov, A. F. and N. N. Korneyev, Author Certificate 168691. 1962, Byul. izobr, no. 5, 1965) from iodine- activated PA-4 aluminum powder or ASD-T aluminum powder and methyl chloride in cyclohexane solution at a 2/3/4.65 constant initial molar ratio. The optimum prepara- tive conditions were determined (see Table 1) to be 50-70C for 6-7 hr. The process was tested on a previously developed continuous reactor for ethylaluminum sesquioxide (Zhigach, A. F., A. F. Popov, and Ye. P. Bezukh Byulleten' tekhnekonom. informatsii GOSINTI, v. 2, 1962, p. 39). Trimethylaluminum was synthesized as follows: 2Al + 3Mg + 6CH ₃ Cl \rightarrow 2Al(CH ₃) ₃ + 3MgCl ₂ from AST-D aluminum powder PMF-4 magnesium	
	Card 1/3 UDC: 547.256.2	

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d methyl chlo e optimum pro	oride in cyclohex eparative conditi	ane solution at a constant 2/3/6/3 in ons were determined (see Table 2) to	nitial molar ratio. be 120C for 5 hr.
. 1	temperature on t	ble 2. Effect of rimethylaluminum yield and reaction action time, 5 hr)	
	ਸ ਸ਼ reactio	tion of the Overall Average yield of reaction reaction rate, products mol/(g- a Al(CH ₃) ₂ Al, 7	
	100 68,6 105 67,8 120 72,7 130 69,5 150 65,8	31,4 83,2 0,167 32,2 86,5 0,173 27,3 97,5 0,195 30,5 85,0 0,170 34,2 47,3 0,095	
	composition catal	reaction rate at higher temperatures yzed by titanium contaminating the a	
B CODE: 07, 199	19/ SUBM DATE:	none/ ORIG REF: 006/ OTH REF: 0	30/ ATD PRESS:

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	216 cm to a start	
ACC NRI AP6035823 (N) SOURCE CODE: UR/0413.	/66/000/020/0030/0030	
INVENTOR: Antipin, L. M.; Bondarevskaya, L. B.; Vladytskaya, 1 Zhigach, A. F.; Larikov, Ye. I.; Snyskin, A. P.	N. V.; Danilov, S. I.;	
ORG: none TITLE: Method of synthesizing lithium-aluminum hydride. Class	s 12, No. 186983	
SOURCE: Izobreteniya, promyshlenyye obraztsy, tovarnyye znaki	, no. 20, 1966, 30	
TOPIC TAGS: litbium aluminum hydride, chemica	1 synthesis	
ABSTRACT: This Author Certificate introduces a method of synt aluminum hydride by a reaction of sodium-aluminum hydride with	with additions of	
diethyl ether. To accelerate the process, it is carried out a aluminum trialkyls. In a variant of the synthesizing process, are added in a quantity of 1-7%.	, aluminum-trialkylb	
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<u>1 14689-66</u> EWT(m)/EWP(t)/EMP(b) IJP(c) JD SOURCE CODE: UR/0075/65/020/010/1054/1058 4/3	
AUTHOR: Terent'yev, A. P.; Larikova, G. G.; Bondarevskaya, Ye. A.; Pravidlo, G. Ye.	
ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy uni- versitet)	
TITLE: Lithium aluminum hydride in analysis. Report No. 2. Determination of lithium aluminum hydride content	
SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 10, 1965, 1054-1058	
TOPIC TAGS: hydride, lithium compound, aluminum compound, volumetric analysis	
ABSTRACT: A previously described technique for determining active hydrogen in or- ganic substances by means of LiAlH4 was used to check the lithium aluminum hydride content of ether solutions and the composition of solid LiAlH4. A weighed sample was decomposed with ethyl alcohol, and the hydrogen evolved was driven with the vap- or of the boiling ether into an azotometer filled with a 1:1 water-ethanol mixture, which absorbed the ether vapor. From the azotometer, the hydrogen was transferred into a eudiometer for volume measurement. Analysis of three samples of 100% LiAlH4	
Card 1/2	



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CIA-RDP86-00513R000928630010-2

\$/724/61/000/000/004/020 AUTHORS: Loktionova, N.A., Rastvorova, N.M., Bereslavtseva, O.P., Larikova, M.I., Stroganov, G.B. A New heat-treatment procedure for the AL19 alloy to maintain TITLE: dimensional stability of castings. Liteynyye alyuminiyevyye splavy; svoystva, tekhnologiya plavki, it'ya i termicheskoy obrabotki. Sbornik statey. Ed. by I. N. Fridlyander SOURCE: and M. B. Al'tman. Moscow, Oborongiz, 1961, 36-42. The paper describes the laboratory development and industrial testing of a new heat-treatment procedure for AL19 parts of complex configuration. The procedure maintains a good stability of the geometric dimensions of the part が加たた。 throughout the course of the heat treatment. The laboratory investigation consisted essentially of the quenching of AL19 castings in water at differing temperatures (T). The cast specimens had a variable-section annular shape. They were quenched in a horizontal attitude. Artificial (accelerated) aging was performed. The specimens were placed into a furnace at 300° C, whereupon the T was raised to $535\pm5^{\circ}$. After 9-hour soaking, the T was raised to $545\pm5^{\circ}$, with additional 7-hr holding. After quenching in water at varying T up to 96°, some of the specimens were aged at 175° for 3 hrs. It was found that: (1) For cross-sectional thicknesses up to 75x60 mm, Card 1/2

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CIA-RDP86-00513R000928630010-2

A New heat-treatment procedure for the AL19....

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the AL19 alloy is practically insensitive to a reduction in the rate of cooling upon quench. The mechanical properties of the castings in the freshly quenched state, tested at room T, were practically invariable with an increase in water T from 45 to 96°, whereas in aged specimens tensile strength and relative elongation were somewhat reduced thereby. The mechanical properties at 250°C (short-term tests) were practically invariable with an increase in quench-water T up to 96° and were also independent of the type of heat treatment; (2) the total corrosional stability of the AL19 alloy quenched in water is practically the same with quench-water T of 45 and 96°, both in the freshly quenched state and after artificially accelerated aging; (3) the quenching of odd-shaped large castings in boiling water produces so insignificant a warping of the castings, that virtually no straightening is required after heat treatment. The adoption of quenching in boiling water for large odd-shaped castings has provided a cardinal solution of the problem of warpage, has reduced the amount of labor required, and has increased the quality of parts made of AL19 alloy: (4) quenching in boiling water does not require any additional major equipment and does not alter in any way the procedural schedule of the production line. Quenching in boiling water can be done with the utilization of ordinary vats and requires only a simple addition of equipment in which the water is heated by means of live steam. There are 2 figures, 4 tables, and 1 Russian-language Soviet reference.

Card 2/2

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000928630010-2

YEGOROV, M.N.; LARIKOVA, V.I.

Complex inflation method of gastric function test in certain gastrointestinal diseases. Ter. arkh., Moskva 24 no.1:22-36 Jan-Feb 52. (CIML 21:4)

1. Professor for Yegorov. 2. Of the Therapeutic Sanitary Administration of the Kremlin (Head--P.I. Yegorov, Corresponding Member of the Academy of Medical Sciences USSR).

APPROVED FOR RELEASE: 08/31/2001

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APPROVED FOR RELEASE: 08/31/2001

LBRIKOW L BULGARIA/Solid State Physics - Mechanical Properties of Crystals E-10 and Polycrystalline Substances	
Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10745	
Author: Larikow L.Inst: Sofia University, Sofia, BulgarinInst: On the Problem of Anomalous Softening of Lead-Tin Alloys atTitle: On the Problem of Anomalous Softening of Lead-Tin Alloys at Room Temperature	
Orig Pub : Dokl. Bolg. AN, 1957, 10, No 1, 65-68	
Abstract : An investigation was made of the change in hardness in natural aging of lead-tin alloys containing one to 19% tin. It was established that there exists an initial aging stage in which the greater the percentage of ting the faster the increase in hardness. By fixation of the state reached at room tempera- ture through rapid quenching to -60°C, it was possible to show the presence of an initial strengthening in natural aging even in alloys with 15 to 19% tin. Thanks to the rapid aging in the initial stage at room temperature, this strengthening has previously escaped observation. An explanation is offer- ed for the considerable discrepancy between the literature Card : 1/2	

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	LARISON L-	
BULGARIA	Solid State Physics - Phase Transitions in Solids E-6	
Abs Jour	: Ref Zhur - Fizika, No 5, 1958, No 10638	
Author Inst	: Iarikow L. : Sofia University, Sofia, Bulgaria	
Title	: Mechanism of Natural Aging of Lead-Tin Alloys	
Orig Pub	: Dokl. Bolg. AN, 1957, 10, No 1, 69-72	
Abstract	The common of the subscript of subscript a	•
10001000	: The course of the process of aging of lead-tin alloys is divided into four stages: 1. The latent period, character-	
	ized only by a slight reduction in the electric resistivity. 2. The period of spontaneous decay of the solid solution,	
	characterized by a fast increase in the hardness, a sharp decrease in the electric resistivity, and a change in the lat-	
	tice parameter in accordance with the scheme of the heterophase decay. 3. The period of coagulation of the new phase in	
	the relaxation of the principal phase in the lattice, a phase characterized by simultaneous rather weak decrease of both	
	the hardness and electric resistivity with the lattice para- meter remaining constant. 4. A period of recrystallization	
Card	in softening; during this period the drop in hardness and	
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LARIN, A

Road to the world of beauty. Prof.-tekh. obr. 20 no.5:6-7 My '63. (MIRA 16:7) 1. Direktor bobruyskogo professional'no-tekhnicheskogo uchilishcha No.15, Belorusekaya SSR.

(Aesthetics --- Study and teaching)

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14(5)

AUTHOR:

sov/93-58-12-9/16

Shekhtman, Yu.M., Kuranov, I.F., and Larin, A.A.

TITLE: Filtration in the Surrounding Zone of the Well During the Hydraulic Fracturning of Formations (Fil'tratsiya v prizaboynoy zone skvazhiny pri gidravlicheskom razryve plasta)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 12, pp 40-45 (USSR)

ABSTRACT: Yu. M. Shekhtman [Ref 1] presented a method for calculating the fluid influx into a sand-filled vertical fracture. The present article aims to verify and improve this method of calculation so as to facilitate its practical application. The authors take a vertical fracture which is symmetrically located in relation to the well and apply to it Shekhtman's formula for the condition at the end of the fracture. Assuming that a = -c and b = c they present the formula as follows

$$= 2 \int_{Vy} dx + q (-c) (-c \leq x \leq 0, y = + 0),$$

 ± 2 (wydx - q(c) (0 $\leq x \leq c, y = \pm 0$), where k' is the permeability factor of the sand filler, k - the permeability factor of the formation, h - the width of the fracture, 2c - the length of the fracture, q(-c) and q(c) - the fluid consumption at the ends of the fracture per unit of its height, v_x - the composite filtration rate along the ox axis, and \sqrt{v} - the composite filtration rate at the oy axis. Card 1/5

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Filtration in the Surrounding Zone (Cont.)

$$T = \frac{1}{\alpha_{c}} = \frac{\kappa'}{\kappa} \frac{\kappa}{\epsilon}, \quad m = \frac{h}{2}, \quad \alpha_{2m} = \frac{A_{2m}}{Q}, \quad \alpha_{nd} \quad 2T \sum_{m=1}^{\infty} \sum_{m=2m=1}^{800/93-58-12-9/16} \sum_{m=1}^{\infty} m_{2}^{2} \alpha_{2m} = \mathcal{U}(T),$$
We obtain

$$\left[\mathcal{U}(T) + \frac{\theta}{2\pi} - \sum_{m=1}^{\infty} \alpha_{2m} \sin 2m\theta\right] \sin \theta, \quad (0 \leq \theta \leq \frac{\pi}{2});$$

$$\left[\mathcal{U}(T) - \frac{\theta}{2\pi} + \sum_{m=1}^{\infty} \alpha_{2m} \sin 2m\theta\right] \left\{\left(-\frac{\pi}{2} \leq \theta \leq \theta\right);$$

$$T\sum_{m=1}^{\infty} ma_{2m} \sin 2m\theta = \left[-\mathcal{U}(T) - \frac{1}{2} + \frac{\theta}{2\pi} - \sum_{m=1}^{\infty} \alpha_{2m} \sin 2m\theta\right] \sin \theta, \quad (\frac{\pi}{2} \leq \theta \leq \theta);$$

$$\left[-\mathcal{U}(T) - \frac{1}{2} - \frac{\theta}{2\pi} + \sum_{m=1}^{\infty} \alpha_{2m} \sin 2m\theta\right] \sin \theta, \quad (-\pi \leq \theta \leq -\frac{\pi}{2});$$
Card $3/5$
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Filtration in the Surrounding

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In these equations the coefficients a_{2m} which depend only on T are the unknown, and it is difficult to determine their values directly from the last equation. By expanding into Fourier series both sides of the last equation and comparing the coefficients at trigonometric functions of an angle with the same multiplicity we obtain an infinite system of equations of the following form

Find y we construct the f(m-l)
$$a_{gm} = \frac{8}{\pi T_2} [F(l)]^2$$
, where lis
 $-Ia_2l + \frac{31}{\pi T_1} \sum_{m=1}^{\infty} mF(n+l) F(m-l) a_{gm} = \frac{8}{\pi T_2} [F(l)]^2$, where lis

the number of the equation (Lagrand)

. Assuming that the series in the equation agrees with regard to L the number of equations is limited to L = 1, 2, ..., s and to the same number of unknown a_{2m} (m = 1,2,...,s). The system of equations thus obtained is linear and can be solved without too much difficulty (Fig.2). Knowing the value of the coefficients a_{2m} it is possible to calculate the velocity potential, pressure, and fluid consumption with the aid of Shekhtman's formulas. The results were verified experimentally on a radical unit consisting of a test chamber (Fig 3), vacum chamber, and measuring instruments (Fig 4). The experimental results are presented graphically by Figs 5-7. It is suggested that the suffusion and silting of the filler sand can be eliminated by selecting sand of suitable properties [Ref 2]. The authors conclude that the theoretical data are in good

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Filtration in the Surrounding Zone (Cont.)

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agreement with the experimental data and since the calculations were carried out with absolute values good agreement can also be expected in the theoretical and field data if the formation is uniform and the remaining properties are known. Therefore, this method for calculating the influx of fluid into vertical fractures is recommended for practical purposes. If the dimensions of the fractures are not measured directly, they can be obtained from the studies of S.A. Khristianovich, G. I. Barenblatt, and Yu. N. Zheltov [Ref 3-6]. The auxiliary graphs a_{2m} (T) presented in this article simplify the calculation process so that it can be carried out in 1-2 hours. There are 7 figures and 6 Soviet references.

Card 5/5

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 LARIN, A . USSR (600) Harbors Over-all mechanization of loading and unloading operations in sea ports, Mor. flot 13 No. 2, 1953 Monthly List of Russian Accessions, Library of Congress, <u>May</u> 1953, Uncl. 				
 4. Harbors 7. Over-all mechanization of loading and unloading operations in sea ports, Mor. flot 13 No. 2, 1953 9. Monthly List of Russian Accessions, Library of Congress, <u>May</u> 1953, Uncl. 	1.	LARIN, A .		•
 Over-all mechanization of loading and unloading operations in sea ports, Mor. flot 13 No. 2, 1953 Monthly List of Russian Accessions, Library of Congress, <u>May</u> 1953, Uncl. 	2.	USSR (600)		
sea ports, Mor. flot 13 No. 2, 1953 9. <u>Monthly List of Russian Accessions</u> , Library of Congress, <u>May</u> 1953, Uncl.	4.	Harbors		
	7.	Over-all mechanization of loading and unloading operations in sea ports, Mor. flot 13 No. 2, 1953		
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	Э. <u>Мо</u>	nthly List of Russian Accessions, Library of Congress, May 1953,	Uncl.	
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	ACCESSION NR: AP4029466 S/0130/64/000/004/0031/0034	6
:	AUTHOR: Larin, A. N.	
	TITLE: Production adoption of a billet from stainless and high-alloy steel ingots	
	SOURCE: Metallurg, no. 4, 1964, 31-34	
	TOPIC' TAGS: stainless steel, high alloy steel	
	ABSTRACT: The author described two principle rolling mills at which the stated adoption took place. He showed the modifications that were necessary for this adoption. Results were presented in tables and figures. After modifications were completed, the rolling of the first lot of billets showed that preliminary heating of the rollers by the rolling of 5-10 of the adjustment slabs of carbonized steel was necessary for stable operation of the mill and more precise adjustment of the stands. 6000 to 7500 tons of billets were rolled on one group of 3 rollers per run. Orig. art. has: 6 figures and 2 tables.	
	ASSOCIATION: Zlatoustovskiy metallurgichesky zavod (Zlatoustovsk Metallurgical Works)	
	Card 1/2	

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EXXED

LARIN, A. P.

Warehouses

Notes on Ya. M. Zetserov's article "New types of storage for raw materials and fuel with railroad cars unloading without the use of a gantry"; Ogneupory 17 no. 1, 1952.

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

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一些人的情况是这些问题是一种和我们的问题是不可以在这些问题,我们就是是我们

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 LARIN, A. P., Eng.
 USSR 600
 Remote Control
 On G. N. Bruk's article "Device for remote control of the loading of bunkers." Ogneupory, 17, No. 12, 1952.
 Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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i(5) JTHOR:	Larin, A. F.	
1712:	Larin, F Press Parameters and Requirements of a Press for Cemi-Dry Pressing (O nekotorykh parametrakh pressovaniya i trebovaniyakh k pressu polusukhego pressovaniya)	ę
ERIODICAL:	Ogneupory, 1958, Nr 11, pp 504-508 (USSR) Apart from the amount of pressure applied, the following factors Apart from the amount of pressure applied, the product: pressing	
.BSTR.CT:	Apart from the amount of pressure applied, the following are of influence upon the quality of the product: pressing speed and pressure time, elastic expansion of the product, over- pressing, pressure release by vacuum, vibration and other technical economic factors. Pressing speed and pressure time. Kogon discovered in experi- ments that returned pressing speed improves the physico-mechan- ical characteristics of the finished products. Balandin noted ical characteristics of the finished products. Balandin noted that a pressing speed of 0.34-2.8 mm/min did not have any effect that a pressing speed of 0.84-2.8 mm/min did not have any effect upon the quality of the products. Berezhnoy proved that the pressure time has an improving effect upon the quality of the products. Elastic expansion. Ogarkov, Mamykin, and Bai'shin assume that this occurs because of a return movement of particles. Ivanov,	
Card 1/3	this occurs teenabe th	-

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807/131-58-11-4/9 Press Carameters and Requirements of a Press for Semi-Dry Pressing Chuprinin, and Minskiy stated that the elastic expansion of the products depends on the technological parameters. Over-pressing. This means a stratification of the products in form of cracks in the unfinished or barned products, respectively. Vaganov, Gvozdarev, Baysogolov, Galkin, Ivanov, Chuprinin, Minskiy, Ogerkov, Mamykin, and Berezhnoy were concerned with this problem; the majority of them assuming that air was pressed into the material. Experiments made by Polyak (Ref 1) show that the formation of cracks is the result of an elastic after-effect, that can be prevented by a number of measures. Pressure release in vacura. Karklit and Timofeyev conducted experiments in the Semilu (skiv ogneupornyy zavod (Semilakskiy) Flant for Refractory Materials) and obtained some positive results, which were, however, not so important as to justify a considerably more complicated pressing process. Vibration while pressing. The quality of the products can be linproved by this method, but the output decreases in the same time. Technical-economic characteristics of the performance of toggle-Card 2/3 joint presses. In the years 1952 to 1956 the VNIIstroymash

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SOV/131-58-11-4/9 Press Farameters and Requirements of a Press for Semi-Dry Pressing examined the presses in brick industries. The performance of these presses is shown in the table. The worst characteristics are those of the Press SM-143. Conclusions: SM-143 presses must be modernized or replaced by new ones, because they do not meet the technological requirements; a draft of reconstructing the press should be worked out by the Khar'kovškiy zavod "Krasnyy Oktyabr'" (Khar'kovskiy Plant "Krasnyy Oktyabr'") in conjunction with the Institutes of Refractory Products. There are 1 table and 21 references, 19 of which are Soviet. ASSOCIATION: Leningradskiy institut ogneuporov (Leningrad Institute of Refractory Materials). Card 3/3

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LARIN, A.P.; LOSEV, S.A.; SLOUSHCH, V.G.

Determining compression forces or a cranked lever press. Ogneupory 25 no.1:14-16 '60. (MIRA 13:6)

1. Vsesoyuznyy institut ogneuporov. (Refractories industry--Equipment and supplies) (Strain gauges)

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LARIN, A.P.; LOSEV, S.A.
Performance of "model 115" centrifugal pug mills. Ogneupory
27 no.8:363-364 '62. (MIRA 15:9)
1. Vsesoyuznyy institut ogneuporv.
 (Mixing machinery) (Refractory materials)

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L_21135-65ENT(m)/ENP(b)/ENA(d ACCESSION NR: AP4045652)/EMP(t) IJP(c)/AFWL/SSD/RAMM(c) HH/JD S/0133/64/000/009/0788/0795
AUTHOR: Itskovich, G. M.; Sautki	n, N. I.; Larin, A. V.
FITLE: Chemical inhomogeneity of semi killed steel ingot	a continuously cast low carbon rimmed and
OURCE: Stal ¹ , no. 9, 1964, 788-7	95
COPIC TAGS: <u>rimmed steel</u> ; <u>semi</u> y, <u>manganese</u> , phosphorous, <u>boro</u>	killed steel, continuous casting, inhomogenei-
illed steel ingots reduced by 46 to	geneity of continuously cast rimmed and semi- 66% was studied in the light of their suitability
ver the whole length of the continu ions are invariable in a stable proc eriod is shortened by the growing	The segregation of Mn and P was negligeable ously cast ingot because crystallization condi- cess. During continuous casting, the rimming ferrostatic pressure as the ingot is being the is accelerated. Sulfur sognagation of 77 to
ripped while the orystallization ra	te is accelerated. Sulfur segregation of 77 to ed at a rate of 0.6 m/min and only 48 to 94%

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1 21135-65	60		
ACCESSION NR: AP40456	방송 공연 가장에 가장 정말 감독했다.		
with stripping at 0.7 m/n	in. Analogous to ingo	t teeming, segregation	is more
이 아이 안 안 안 안 다 나는 것이 지수는 것을 가지 않는 것이 같이	idation temperature	HUU THE COULCUST GRADIE .	
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LARIN, A. Ya. Mor., Institute of Mineral Fuels, Academy of Science "Cracking of Heavy Petroleum Products Over Incandescent Surface," Iz. Ak. Nauk SSSR, Otdel, Tekh. Nauk, 1943. A 4681, BR-52059019

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PA4778 LARIN, A. YA. 1 Mar 1948 UBSR/Chemistry - Ketones Chemistry - Aluminosilicatos, as Catalysts "Transformation of Ketones by Active Aluminosilicates," A. Ya. Larin, A. V. Frost, 32 pp "Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 7 Mesitil oxide, methylethyl ketone, pinacolin, cycloherranon, acetophenone, and benzophenone soudied with active aluminosilicate as catalyzer. Experiments conducted in the vapor phase with multiple circulation of the ketone through the catalyzer. Gives results of catalytic transformation of ketones in detail. 4778

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STATESTICATION CONTRACTOR STATES 5/030/60/000/011/011/026 B021/B056 Larin, A. Ya., Candidate of Chemical Sciences AUTHOR: Surface-active Substances From Petroleum Distillates TITLE: Vestnik Akademii nauk SSSR, 1960, No. 11, pp. 78-84 PERIODICAL: TEXT: The production of synthetic detergents has developed in the USSR in the course of recent years. The active agent of the detergent "Novost'" is obtained by direct oxidation of the soft paraffins according to the method developed by A. N. Bashkirov. Salts of the aromatic sulfo acids can be obtained more easily and at lower costs by the method developed by S. S. Nametkin from petroleum distillates. These surface-active substances were called by Nametkin "Soviet Detergent" ("detergent sovetskiy") or just shortly, G((DS). Trial lots of DS were produced by the Vioroy moskovskiy neftemaslozavod (Second Moscow Petroleum Refinery) by sulfonation of petroleum distillates by sulfuric anhydrides according to the method developed by Petrov by means of HYK (NChK neutralized black contact). By using DS in ore mining as flotation agent, the technological characteristics of preparations are improved owing to the costs being reduced by 8 to 15 Card 1/3

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Surface-active Substances From Petroleum Distillates S/030/60/000/011/011/026 B021/B056

times their previous amount compared to the hitherto usual foaming agents, which led to a considerable saving of expense. Testing the salts DS in agriculture by the Vsesoyuznyy institut udobreniya i agropochvovedeniya BACXHUN (All-Union Institute of Fertilizers and Soil Science of the VASKhNIL) led to an increase of profits. In spite of the satisfactory washing properties, DS could not be used as a detergent because of its dark color and specific odor. In 1955 the author recommended a method of obtaining products of the type DS in which the aforementioned shortcomings did not exist. Sulfonation is carried out by means of sulfuric anhydride gas at milder temperature conditions, and the sulfo acids are purified from resinous substances. The products obtained in this manner are called refined alkyl aryl sulfonates (RAS). Sample lots of these substances were produced in the Second Moscow Petroleum Refinery in 1957, sulfonation being carried out according to the scheme shown in Fig. 1. The scheme of producing RAS is presented in Fig. 2. The flocculation of calcite and surface tension of the solutions RAS-Na, which were obtained from gas oil of catalytic cracking, is shown in Fig. 3. After testing the aqueous solutions of RAS, the Vsesoyuznyy nauchno-issledovatel'skiy institut zhirovoy promyshlennosti (All-Unicn Scientific Research Institute of the

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Surface-active Substances From Petroleum Distillates

S/030/60/000/011/011/026 B021/B056

Fat Industry) recommended using them in the production of non-fat detergents. The Moskovskiy mylovarennyy zavcd (Moscow Soap Works) used it with good success. At the Institut gigiyeny truda i profzabolevaniy Akademii meditsinskikh nauk SSSR (Institute of Labor Hygiene and Occupational Diseases of the Academy of Medical Sciences USSR) attempts were made to deactivate radioactive contamination of various building materials, the best results being attained by RAS in form of iron salt. At the Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petrochemical Synthesis of the Academy of Sciences USSR) sodium salt RAS was used with good success for improving the wetting capacity of polypropylene by water. The Moskovskaya mekhanicheskaya prachechnaya No. 6 (Moscow Laundry No. 6) was able, by using RAS, to save considerable amounts of time. The "Lengiprogaz" (State Institute for the Design and Planning of Synthetic Liquid Fuel and Gas Establishments) worked out the draft of a special plant for the production of RAS on the basis of works experience; the costs of the active substance RAS can, in this case, be considerably reduced compared to the prices of the usual detergent. The plant is intended to be put into operation in 1961. There are 3 figures and 8 Card 3/3

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KAZAKOV, Ye. I.; LARIN, A. Ya.; VORONINA, T. B.; LYUBIMOVA, Z. V.; GOROSHKO, G. K.

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Light oil of a mean temperature brown coal tar as a raw material for the production of surface-active substances. Trudy IGI 17: 169-173 '62. (MIRA 15:10)

(Coal-tar products) (Surface-active agents)

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	ARIN, B.	
مجن ب	Improved trade standards in the village. Sov. ; no.6:39-42 Je 154.	
	1. Predsedatel' Orlovskogo obkoma profsoyuza r kooperatsii. (Retail trade)	abotnikov potreb-
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LARIN, B. A.

LARIN, B. A. _- "The Effect of Harvesting Conditions of Grain Cultures in Irrigated Agriculture on the System of Operation and the Power Economy of Combines." Min Higher Education USSR. Chelyabinsk Inst of the Mechanization and Electrification of Agriculture. Chelyabinsk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

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新聞的 医前周期

SOURCE Knizhnaya Letopis', No 6 1956

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497 PHASE I BOOK EXPLOITATION LARIN, B.A. Akademiya nauk SSSR. Komitet po geodezii i geofizike Mezhdunarodnaya assotsiatsiya geodezii; tezisy dokladov na XI General'noy assambleye Mezhdumarodnogo geodezicheskogo i geofizicheskogo soyuza (The International Association of Geodesy; Abstracts of the Reports at the XI General Assembly of the International Union of Geodesy and Geophysics) Moscow, Izd-vo AN SSSR, 1957. 63 p. 1,500 copies printed. PURPOSE: The purpose of this booklet is the dissemination of abstracts of the reports presented by the Soviet members of the International Association of Geodesy at the XI General Assembly of the International Union of Geodesy and Geophysics. This booklet, with full English translation of the Russian text, published by The National Committee for Geodesy and COVERAGE: Card 1/12

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The International Association of Ceodesy (Cont.)

coefficients after a lapse of years remain practically constant. The use of such a pendulum at first order stations, even under very adverse climatic conditions and transportation difficulties, is well justified.

Izotov, A.A. The Reference Ellipsoid and the Basic Geodetic Data Used in USSR

The reduction of triangulation to sea level and the subsequent development of it on the surface of the geoid introduce considerable distortions into the main geodetic framework. The method of projecting triangulation directly on the surface of the reference ellipsoid developed and adapted in USSR is free from such drawbacks. Krasovskiy's ellipsoid derived from measurements in USSR, W. Europe and USA offers a close enough figure of the Earth, applicable to the continents of the Northern hemisphere only.

Card 3/12

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497

9

The International Association of Geodesy (Cont.) 497 Thermal Properties of Invar Measuring Wires 12 Larin, B. A. Modern triangulation techniques require the highest degree of accuracy in measuring base lines. In the USSR, the commonly accepted 24 m. long invar or super-invar wires show little change in thermal coefficients with time, or thermal after-effects on the length of the wire. Invar wires can now be manufactured with temperature coefficients of equal value but of opposite sign. Basis Systematic Errors in Precision Leveling 16 Entin, I.I. The systematic errors in precision leveling are vertical displacements of the markers and of the tripod, and changes in the angle between the line of sight and the bubble axis due to the effect of temperatures. Other errors caused by non-vertical position of the rods, etc. are noted, and means for correcting them are recommended. In precision leveling the computed systematic error is ± 0.05 mm per kilometer. Card 4/12

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The International Association of Geodesy (Cont.) 497

Sinyagina, M. I. Preliminary Findings in the Study of Vertical Displacement of the Earth's Crust Through Repeat Leveling

There is a considerable number of repeat leveling traverses in the European part of the USSR, run to obtain a vertical control grid of the entire USSR. The western part of European USSR, circumscribed by the Baltic, Black and Azov seas is more thoroughly covered by observations and as such was selected for the study of uplifts. The necessary material was selected, systematized and properly computed. To this study of 20,000 km of traverses, were added other geodetic data including oceanographic and geo-morphological material; 82% of all the traverses proved to be reliable. The recent rate of uplift is -5 to $\frac{1}{20}$ mm per annum, determined to an accuracy of 2 mm per annum.

Card 5/12

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497 The International Association of Geodesy (Cont.) The Effect of Refraction on Angular Measurements 2 The main source of systematic errors in triangulation work is laterial (horizontal) refraction. In observation during one night or day, the errors vary between $\pm 0.5 - 0.7$. Under unfavorable conditions there may appear other errors of the same order. The greatest of these is caused by refraction while measuring traverses in cities, when the line of sight passes close to and parallel to the wall of a large building. The accepted technique of triangulation in USSR and the adopted methods of adjustments minimize the effects of Belyayev, N.A. A Photoelectric Device for Field Astronomical refraction. 26 Measurements The described photoelectric system designed to record che passage time of stars is attached to the AU 2/10 astronomical vertical instrument (engineer's transit) and does not increase substantially the weight or bulk of a field party's equipment; it is Card 6/12

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