GORBUNOV, M.A.; KOSHKIN, N.I.

Ultrasound absorption in the transition region liquid - polycrystalline benzene. Prim. ultraakust. k issl. veshch. no.13:241-250 '61. (MIRA 16:6)

(Benzene-Acoustic properties)
(Absorption of sound)

45438 8/058/63/000/001/110/120 A062/A101

27.4000

AUTHORS:

Gorbunov, M. A., Derkovskiy, M. M., Koshkin, N. I.

TITLE:

Experimental study of accustical properties of human blood in ..

will early

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 71, abstract 1Zh422 (In collection: "Primeneniye ul'trasket. k issled. veshchestva". no. 16, Moscow, 1962, 191 - 197)

Systematic studies of blood have allowed to establish a relation between a number of its physico-chemical properties and certain pathological states of the organism. In the reported work an attempt is made to determine the change of the acoustical properties of blood (velocity v and coefficient of absorption) in cancer diseases. There was studied a newly prepared serum, obtained by centrifugation of blood at a temperature of 4°C during 20 min. at 200 revolutions/min. The volume of the studied substance was 10 cm3. The measurements were carried out by a phase-pulse method, the measurement accuracy of v was 0.3%, the frequency - 5.45 Mc/s. There was studied blood of the group A(II)

Card 1/2

Experimental study of ...

s/058/63/000/001/110/120 A062/A101

of a donor and of a patient having stomach cancer with no revealed metastases. With a view to get a precise definition of the character of the disease, blood serums were additionally studied after X-ray irradiation by a dose of 50,000 roentgen. It was found that in all cases in the 20 - 82°C temperature range v increases linearly with the temperature increase, the rate of increase falling after 42°C, which is related to the change of the albuminous blood structures. In the donor's blood serum y is larger than in the blood serum of the sick. At 28°C the velocity difference $\Delta v_1 = 10$ m/sec. for a non-irradiated serum, and $\Delta v_2 = 14 \text{ m/sec. for an irradiated serum.}$ At 70°C $\Delta v_1 = 20 \text{ m/sec}$ and $\Delta v_2 = 14 \text{ m/sec}$ = 18 m/sec. The donor's blood serum has a temperature coefficient greater by 0.4 m/sec. degree for the non-irradiated serum and by 0.2 m/sec. degree for the irradiated one. The temperature of thickening T1 of the donor's blood serum is higher than that of the patient T_2 . For a non-irradiated serum $T_1 = 82^{\circ}C$, $T_2 = 72^{\circ}C$; for an irradiated serum $T_1 = 72^{\circ}C$, $T_2 = 68^{\circ}C$. A conclusion is made on the possibility of diagnosing various diseases, particularly cancer deseases, by the method of ultrasonic studies of albuminous systems. There are 11 references. I. Kanevskiy [Abstracter's note: Complete translation]

[Abstracter's note: Complete translation]
Card 2/2

8/081/63/000/002/004/088 B180/B186

AUTHORS:

Sheloput, D. V., Koshkin, N. I.

TITLE:

Prequency dependence of ultrasonic absorption around the melting point of benzens

PERIODICAL:

Referativny: zhurnal. Khimiya, no. 2, 1963, 48, abstract 28/87 (In collection: Primeneniye ul'traakust. k issled. veshchestva, no. 15, 8., 1961, 61-68)

TEXT: The ultrasonic (US) absorption in the liquid-polyarystal transition range was measured at 0.9-3.05 Mo/s with a relative error of $\sim 5\%$. The US velocity of waves around the benzene melting point was determined by a relative method. The values used were d, the accustic path length; v_2 , the US velocity in the liquid phase; and $\Delta \tau_i$ the change in the US transition time. v_1 , the US velocity in the polyarystal was calculated by the formula $v_1 = d/(d/v_2 - \Delta \tau)$. The US absorption peak was found to have shifted 0.5°, in the crystalline region. The frequency dependence for Card 1/2

Frequency depen			/081/63/000/002/ 180/B186	004/08
and that a thin	on coefficient in peliminary calculation are the major disactor, scattering ote: Complete trans	factors between	u tost hvatarabi	had a
Uard 2/2				

GORBUNOV, M.A.; KOSHKIN, N.I.; NOZDREV, V.F.; SHELOPUT, D.V.

Use of ultra-acoustic methods in studying organic substances in the liquid - polycrystal transition region. Ukr. fiz. zhur. 7 no.8:898-905 S '62. (MIRA 16:1)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.Krupskoy. (Absorption of sound) (Organic matter)

KOSHKIN, N.I.; SHELOPUT, D.V.

Accoustic and dielectric losses in the melting region of benzene. Prim.ul'traakust.k issl.veshch. no.16:91-95 '62.

(MIRA 16:4)
(Benzene--Acoustic properties) (Dielectric loss)

KOSHKIN, N.I.; SHELOPUT, D.V.

Ultrasound absorption in the melting region of polycrystalline paraffin. Prim.ul'traakust.k issl.veshch. no.16:97-99 '62.

(MIRA 16:4)

(Paraffins—Acoustic properties) (Ultrasonic waves)

GORBUNOV, M.A.; DERKOVSKIY, M.M.; MOSHKIN, N.I.

Experimental study of the acoustic properties of human blood for the purpose of diagnosing cancer. Prim.ul'traakust.k issl. veshch. no.16:191-196 '62. (MIRA 16:4)

(BLOOD--ACOUSTIC PROPERTIES) (CANCER--DIAGNOSIS)

SHELOPUT, D.V.; KOSHKIN, N.I.

Frequency dependence of ultrasound absorption in the melting region of benzene. Prim. ul'traakust. k issl. veshch. no.15: 61-68 '61. (MIRA 16:8)

(Benzene-Loustic properties)

ACCESSION NR: AR4032185

S/0058/64/000/002/H055/H055

SOURCE: Ref. zh. Fiz., Abs. 2Zh342

AUTHORS: Nevskiy, Yu. Ye.; Koshkin, N. I.

TITLE: Effect of nonlinear waveform distortion on the accuracy with which absorption of ultrasonic waves of infinitesimal amplitude is measured

CITED SOURCE: Sb. Primeneniye ul*traakust. k issled. veshchestva. M., vy*p. 17, 1963, 185-193

TOPIC TAGS: ultrasound absorption measurement, nonlinear distortion, absorption coefficient, first harmonic coefficient, benzene, toluol, distilled water, absorption measurement accuracy, radiator voltage effect

TRANSLATION: It is noted that Zarembo and Krasil'nikov (RZhFiz,

Card 1/2

ACCESSION NR: AR4032185

1960, No. 11, 31050) analyzed the influence of nonlinear distortion on the accuracy of absorption measurement only for methods based on the determination of intensity. In the present paper are analyzed the errors occurring in measurements of the absorption coefficient of the first harmonic. For this purpose, a pulsed method with a tuned receiver is used to measure at different frequencies (6.0--10.6 Mc/sec) the dependence of this coefficient on the radiator voltage amplitude (up to ~200 V); such measurements were made in distilled water, ethyl alcohol, toluol, and benzene. The experimental results are in good agreement with the calculations of Keck and Beyer (RZh-Fiz, 1960, No. 12, 33880); these calculations are used to determine the maximum amplitude at which absorption can be measured. L. Zarembo.

DATE ACQ: 31Mar64

SUB CODE: PH

ENCL: 00

Card 2/2

ACCESSION NR: AR5015	984 1 IP(c) 06/RM	
SOURCE: Ref. zh, Fizi	ha, Alla: 52347	37 3
AUTHOR: Koshkin, N. I		9
TITLE: Investigation	of the melting region of	f molecular crystals
CITED SOURCE: Sb. Pri 1963, 19-32	meneniye ul'traaku t. 1	issled, veshchestva. Vyp. 18. M.,
TOPIC TAGS: molecular velocity, benzene, pur	crystal, melting egic effin, cyclohexans	m, ultrasound absorption, ultrasound
city of ultrasound in 810%. The temperatu fluence of the grain d hexane are investigate	the temperature interverse and frequency dipension on the absorp	easurement of absorption and the velo 1 from -100 to +1000, with accuracy lenges of the absorption and the in- ion in benzene, paraffin, and cyclo- ning the absorption of ultrasound in
SUB CODE: GP,NP	ERCL: 00	

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ACCESSION ART AR5015995 300 V		UR/0058/65/000/005/2046/2046
SOURCE: Ref. zh. Piziki, Abs.	SE348	40
AUTHORS: Koshkin, N. I.; Gorbu	nov, M. A	
TITLE: Properties of molecular	crystels in the	melting region
CITED SCURCE: Sb. Primeneniye 1963, 33-43	ul'treakurt. k	saled. veshchestva. Vyp. 18. M.,
		temperature dependence, frequency - iffin, cyclohexane, dislocation
dependences of absorption of ul dependence of the absorption or	trasound in ben the structure, cussed. The acc	ent of the temperature and frequency the paraffin, and cyclohexane. The hich is different for metals and is tic properties are attributed to
SUB CODE: SS,NP /	ENGL: 00	
Cord 1/1		

KOSHKIN, Nikolay Ivanovich; SHIRKEVICH, Mikhail Grigor'yevich; RYDNIK, V.I., red.

[Handbook on elementary physics] Spravochnik po elementarnoi fizike. Moskva, Nauka, 1965. 246 p. (MIRA 18:8)

EMT(m)/EWF(1)/T JJF(c) RM SOURCE CODE: UR/0058/65/000/011/H63/H063 ACC NR: ARG016271 AUTHOR: Kochkin, N. I.; Gorbunov, M. A.; Dmitriyeva, N. A. TITLE: Investigation of acoustic properties of polymers by a pulse method SOURCE: Ref. zh. Fizika, Abs. 11Zh435 REF SCURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20, M., 1964, 47-53 TOPIC TAGS: ultrasound absorption, accustic speed, epoxy plastic, rubber, butyl rubber, acoustic measurement, thermostat, Acoustic. PROPERTY ABSTRACT: The speed and absorption of ultrasound were measured at frequencies 500 kcs - 10 Mcs in the following polymer materials: polybutylmethacrylate, compounds based on epoxy resin or the product of copolymerization of butylmethacrylate with dimethylacrylate-triethyline glycol, and the rules are some of the rules are some diagram of the pulse apparatus is given. The speed measurement was based on the relative displacement of the first half-wave on the oscilloscope screen for two samples made of the same material but having different lengths. In determining the absorption the amplitudes of the first half-wave were compared after passage through samples of different lengths of the given material. The method of multiple reflections was also used. A schematic diagram of the measuring chamber is presented. The entire system was immersed in a Dewar vessel filled with a liquid which did not react with the investigated polymer. To obtain low temperatures, refrigerating apparatus was used in Card 1/2

L 32991-66

ACC NR: AR6016271

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conjunction with an ultrathermostat of the "Vobzer" type (accuracy 0.05C). Curves showing the dependence of a and of the ultrasound velocity on the temperature at 830 and 980 kcs and at 2 Mcs were obtained. The temperature at which the temperature coefficients of the velocity change, exhibit no reciprocal proportionality to the temperature within the limits of experimental accuracy (1%) in the interval 800 kcs - 2 perature within the limits of experimental accuracy (1%) in the interval -40 - 10C, Mcs. The ultrasound speed in rubber decreases rapidly in the interval -40 - 10C, while the absorption in the region -30 - 20C passes through a maximum (transition from the highly-elastic into the glass-like state). At higher frequencies, the absorption maximum shifts toward lower temperatures. I. Nikolayeva. [Translation of abstract]

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Card 2/2 pla

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Continuous yltrason			
	ic method for clear	nsing microwire	4
Moscow. Oblastnoy	pedagogicheskiy in	stitut. Primeneniy	e ul'trankustiki k
GS: fine wire, fine	wire technology,	insulated wire, u	ltrasonic cleaning,
: 'A continuous ult	rasonic method for Laboratory of Mol	ecular Acoustics b.	OPI imeni N. K.
sion Cables Industr	v. A schematic of	the experimental	installation is pre-
The best results w	ere obtained with	a frequency of 700)1000 KilooActes and
expenditure of 24	w/cm². The exper	rimental results and ne working liquid v	ras quite satisfactory
ome cases. when the	level of natural	oils on the surface	ce of the wires was
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	AGS: fine wire, fine is opplication micro T: A continuous ultras developed by the ya (Laboratoriya molession Cables Industry The best results we are enditure of 2-4 are use of common organ some cases, when the	AGS: fine wire, fine wire technology, is opplication, microwia. F: A continuous ultrasonic method for was developed by the Laboratory of Molya (Laboratoriya moleculyarnoy akustikasion Cables Industry. A schematic of The best results were obtained with emenditure of 2-4 w/cm². The expense use of common organic solvents as the some cases, when the level of natural	Moscow. Oblastnoy pedagogicheskiy institut. Primeneniy maiyu veshchestva, no. 14, 1961, 21-31 AGS: fine wire, fine wire technology, insulated wire, use opplication, microwia is a continuous ultrasonic method for cleansing microwia was developed by the Laboratory of Molecular Acoustics by (Laboratoriya moleculyarnoy akustiki MOPI) at the registion Cables Industry. A schematic of the experimental The best results were obtained with a frequency of 700 cm enditure of 2-4 w/cm ² . The experimental results are use of common organic solvents as the working liquid we some cases, when the level of natural oils on the surfacely low, ordinary tap water could be used as the working

ACC NR: AT6013178				٥
	No.	Average number of point defects in the insulation of a 15-m specimen		
ţ	of reel	without ultrasound	with ultrasound	
-	. 1	5,000	1,300	
	2	1,129 ·	0,726	
	3	12,210	0,230	
	4 *	25,000	0,500	
	5.	2,120	0,000	
	. 6	1,470	0,600	
	7	3,703	0,367	
	8	0,433	0,133	
	* Each re	eel had 8001000 m wil	re	
Table 1. R constantan	esults of o	determination of point 15 mm diameter.	defects of enameled	
Orig. art. has: 2 t	ables and	5 figures.	•	•
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EWT(1)/EWT(m)/EWP(j)/T/EWP(k) IJP(c) WW/RM L 32992-66 SOURCE CODE: UR/0058/65/000/011/H063/H063 ACC NR: AR6016272 AUTHOR: Sheloput, D. V.; Koshkin, N. I.

TITLE: Influence of polycrystalline structure on acoustic absorption in the region of mounting of molecular polycrystals SOURCE: Ref. zh. Fizika, Abs. 11Zh436 REF SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20. M., 1964, 55-59 TOPIC TAGS: ultrasound absorption, melting point, organic crystal, grain structure, single crystal growing, relaxation process, resonance absorption, POLYCRYSTAL, ABSTRACT: An experimental investigation was made of the absorption of ultrasound near the melting point of different polycrystalline structures of benzene and paraf-Data were obtained on the frequency dependence of a/f in polycrystalline benzene for average grain dimensions $\bar{D}=0.02,\,0.03,\,0.04$, and 0.07 mm at +4C. It is established that the dimension of the average diameter of the grain determines the position of the maximum of α/f , its width, and its absolute value. A study was made of the influence of the intergrain boundaries on the absorption in the region of melting of benzene single crystals. The process of growing of single crystals of benzene in a refrigerator and its processing by fusion is described in detail. The size of the grain has different effects on the absorption in benzene and in paraffin: with increasing grain, the maximum of α/f shifts toward the higher frequencies in benzene, Card 1/2

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ACC NR: AR6016272

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and toward the low frequencies in paraffin. The maximum absorption in paraffin is the same for 0.01 and 0.02 mm grains; in benzene it decreases with increasing grain dimensions. The relaxation phenomena connected with the viscous behavior of the grain boundaries were observed experimentally in polycrystalline metals at high temperatures in a wide range of frequencies (from several cps to tens of kcs). Experimental data are presented on the absorption of ultrasound in polycrystalline paraffin near the melting point and the curve calculated from the ordinary relaxation theory. The plot shows results of measurements of two different polycrystalline structures (D = 0.01 and 0.02 mm) at 50 and 52C. The results agree satisfactorily. A similar comparison of the relaxation curve and of the experimental data for benzene discloses a discrepancy due to the resonant mechanism of absorption in the region of melting of polycrystalline benzene. Allowance for the resonance phenomena permits a better explanation of the experimental curve. I. Nikolayeva. [Translation of abstract]

SUB CODE: 20

Card 2/2 plas

36068-66 ENT(1) WW SOURCE CODE: UR/0058/65/000/012/A010/A010

AUTHOR: Koshkin, N. I.; Dobromyslov, N. A.

TITLE: Measurement of ultrasonic-wave velocity and absorption (laboratory study)

SOURCE: Ref. zh. Fizika, Abs. 12A96

REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 107-111

TOPIC TAGS: ultrasonic wave velocity, ultrasonic wave absorption, ultrasonic wave propagation, 19coustic Equipment

ABSTRACT: The device consists of a square-wave generator whose output is fed into an emitter to produce mechanical vibration of intrinsic frequency in the plate. The ultrasonic waves, having passed through the test medium are received by another plate and converted into electric pulses, which are then amplified and fed into an oscillograph. Individual components of the apparatus are described, and design equations are given in the original article. B.V. [Translation of abstract]

SUB CODE: 20/

SUBM DATE: none

Card 1/1 ymb

IJP(c) WW/JWD/RM EWT(m)/EWP(j)/TSOURCE CODE: UR/0081/66/000/007/S010/S010 L 42966-66 AR6024996 ACC NR: AUTHOR: Koshkin, N. I.; Gorbunov, M. A.; Dmitriyeva, N. A. TITIE: Study of the acoustic properties of polymers by the pulse method B SOURCE: Ref. zh. Khimiya, Part II, Abs. 7365 REF SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20. M., 1964, 47-53 TOPIC TAGS: ultrasound absorption, ultrasonic velocity, rubber, acoustic property ABSTRACT: The pulse method was used to study the velocity V and absorption a of ultrasound in polymeric materials: polybuty! methacrylate, compounds prepared from ED-515 epoxy resin scompounds based on the product of copolymerization of butyl methacrylate with triethylene glycol dimethacrylate, and resins based on BK, SKN, and NK'in the range of -60 to +60°. A block diagram of the device employed is given. The temperature dependences of α and V at frequencies of 830, 980, and 2 ½ were obtained. It was found that the velocity of the ultrasound in the rubbers decreases markedly in the range of 40 to +10°, and the absorption in the range of -30 to 20° passes through a maximum (transition from a high-elastic to a vitreous state). At higher frequencies, the absorption maximum shifts toward lower temperatures. N. Nikolayeva. [Translation]

SUB CODE: 11,20 Card 1/1

of abstract]

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CIA-RDP86-00513R000825110016-7

L 45531-66 EWP(j)/EWP(k)/EWT(1)/EWT(m)/T RM

ACC NR: AR6013715 SOURCE CODE: UR/0058/65/000/010/H074/H074

AUTHOR: Koshkin, N. I.; Zalivchiy, V. N.

TITLE: Analysis of the absorption of ultrasonic waves in the binary systems ethyl

source: Ref. zh. Fizika, Abs. 10Zh499

REF. SOURCE: Sb. Primeneniye ul'traakust. k issled. veshchestva. Vyp. 20. M., 1964,

127-134

TOPIC TAGS: ultrasound absorption, absorption coefficient, acetate, acetic acid,

solution property

ABSTRACT: On the basis of an analysis of the data previously obtained by the authors on the coefficient of absorption of ethyl acetate in binary systems ethyl acetate — acetic acid, an interpolation equation is obtained relating the coefficient of absorption of sorption of a mixture of arbitrary concentration with the coefficient of absorption of the liquids making up the mixture. On the basis of an analysis of the equation, a the liquids making up the mixture, that the absorption coefficients of low conclusion is drawn, confirmed by experiment, that the absorption coefficients of low

Card 1/2

ACC NR: AR6013715	divided by the square of the	frequency, are independent of t is holds true for the liquid hav heludyakov. [Translation of ab-
frequency in all tempering the larger concent stract]	rature intervals, provided in ration in the mixture. Ye. S	is holds true for the liquid heludyakov. [Translation of ab-
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IL 04082-67 EMP(j)/EMT(1)/EMF(m)/T IJF(c) GG/RM/WW

ACC NR: AR6023311 SOURCE CODE: UR/0058/66/000/003/H072/H072

AUTHOR: Koshkin, N. I.; Sheloput, D. V.

TITLE: Acoustic properties of molecular crystals near melting

SOURCE: Ref zh. Fizika, Abs. 3Zh505

REF SOURCE: Tr. 1-y Mezhvuz. nauchn. konferentsii po primeneniyu molekul. akust. k issled. veshchestva i v nar. kh-ve. Tashkent, 1964, 67-75

TOPIC TAGS: molecular crystal, acoustic property, melting, ultrasound absorption, absorption coefficient, temperature dependence, frequency characteristic, crystal dislocation phenomenon

ABSTRACT: The authors investigated the temperature and frequency dependences of the coefficient of absorption of ultrasound and the dependence of absorption on the linear dimensions of the grains of polycrystalline structures in the melting region. The temperature dependence was investigated in benzene, paraxylol, benzyl alcohol, naphthalene, cyclohexane, carbon tetrachloride, and praffin. It turns out that the coefficient of absorption at the maximum is 2 - 3 orders of magnitude higher than in the liquid phase near the melting point. The shift of the maximum from the melting point changes from substance to substance. The frequency dependence of the absorption was investigated only in benzene and in paraffin. Analyzing the results of their measurements, the authors arrive at the conclusion that the absorption of ultrasound in molecular crystals is due essentially to hysteresis losses (the frequency-independent component of the absorption) and to resonance losses (in benzene) or to

Card 1/2

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relaxation (in paraffin). From the point of view of dislocation theory, loss arises when the dislocation segments break away from their anchor potential resonant lossos occur under induced oscillations of the dislocations. [Translation of abstract]	the hysteresis ints, and V. Gordeyev.
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Card 2/2	

KOSHKIN, N.N., uchitel'

Using the practical experience of sutdents in studying chemistry.
(MIRA 15:3)
Khim. v shkole 17 no.2:37-40 Mr.Ap '62.

1. Shkola rabochey molodezhi No.1, g. Kamenka, Penzenskaya oblast: (Chemistry-Study and teaching)

KOSHKIN, N. N.

PA 4/49 T36

USSR/Engineering
Thermostats
Thermostat Controls

Feb 48

"Thermostat for Obtaining Low Temperatures," N. N. Koshkin, Leningrad Inst of Refrigeration Ind, 1 p

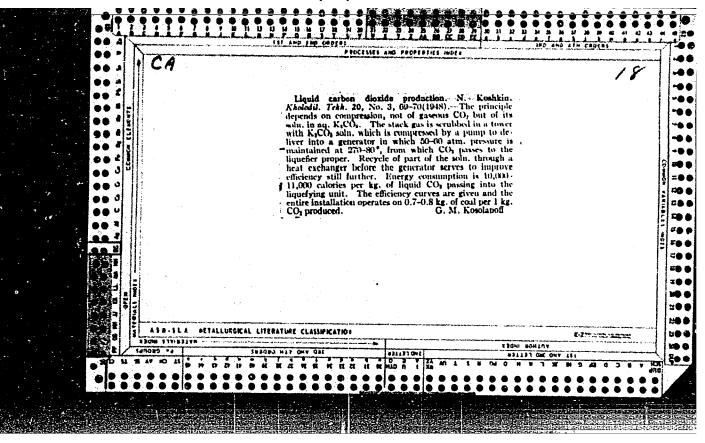
"Zavod Lab" Vol XIV, No 2

Describes thermostal with aid of sectional diagram. It is merely a large cylindrical vessel containing a brass coil connected to a Dewar Vacuum flask of liquid air. Evaporation is controlled by valve on outlet side of coil, Includes temperature-time curve.

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KOSHKIN, N. N.

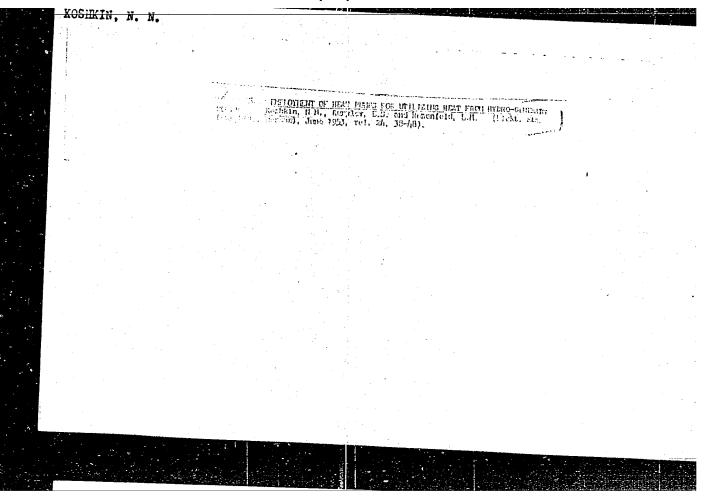
· 一种的一种,我们们们的一种,我们就会是一种的一种,我们们们是一种的一种。

Kholodil'naia mashina dlia termicheskoi obrabotki metallov. (Vestn. Mash. 1951, no. 3, p. 71)

(Refrigerating machine for heat treatment of metals.)

DLC: TNL VL

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



ROZENFEL'D, L., professor, doktor tekhnicheskikh nauk; KOSHKIN, N., dotsent, kandidat tekhnicheskikh nauk.

Use of an air refrigerating machine for the hardening of metals. Khol. tekh. 30 no.2:15-19 Ap-Je '53. (MLRA 6:7)

1. Leningradskiy institut kholodil'noy i molochnoy promyshlennosti.
(Metals--Heat treatment)

KCSHKIN, N.N.

ROZENFEL'D, L.M., doktor tekhn. nauk, prof.; KURYLEV, Ye.S., kand. tekhn. nauk, dots.; KOSHKIN, N.N., kand. tekhn. nauk, dots.

Methods of sloving the principle problems in the design of heat pump systems for the heat supply of hydroelectric power stations.

Trudy MTKHP 5:4-14 154.

(Hydroelectric power stations) (Heat pumps)

ROZENFEL'D, L.M.; KOSHKIN, N.N.

Dynamic heat insulation. Zhur.tekh.fiz. 24 no.1:96-102 Ja '54.

(MLRA 7:2)

(Refrigeration and refrigerating machinery) (Insulation (Heat))

KOSHKIN, N.N., kandidat tekhnicheskikh nauk, dotsent.

STRUCTURE SECTION

Using dynamic insulation in food storage chambers. Trudy L/TIKHP 10: 82-84 56. (MIRA 10:6)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlen-

(Cold storage--Insulation)

KOSHKIN, N.N., kandidat tekhnicheskikh nauk, dotsent.

Effective use of double insulation for low-temperature installations.

Trudy LTIKHP 11:26-33 '56. (MLRA 10:6)

1. Kafedra kholodil'nykh mashin.
(Refrigeration and refrigerating machinery) (Insulation (Heat))

KOSHKIN, N.H.

Studying porous heat-insulating materials used in dynamic insulation systems [with summary in English]. Inzh.-fiz.zhur. no.1:54-60 Ja '59. (MIRA 12:1)

1. Tekhnologicheskiy institut kholodil'noy promyshlennosti. Leningrad.

(Insulation (Heat))

GOLOVKIN, H., prof.; KOSHKIN, N.; BATURINA, L.

Cooling of meat in air supersaturated with moisture. Mias.prom. SSSR 31 no.3:52-53 60. (MIRA 13:9)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti (for Koshkin). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Baturina).

(Meat, Frozen)

KOSHKIN, N.N., kand.tekhn.nauk

Cold storage chamber with dynamic insulation. hhol.tekh. 39 no.2:13-17 Mr-Ap '62. (MIRA 15:4)

1. Leningradskiy filial Nauchno-issledovatel'skogo instituta khimicheskogo mashinostroyeniya.

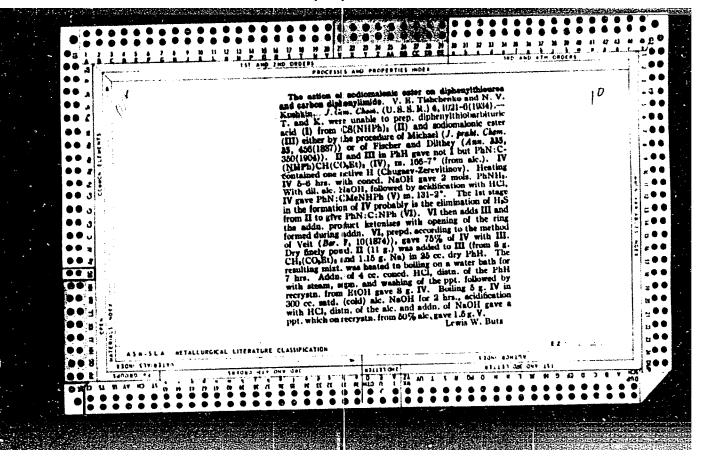
(Cold storage--Insulation)

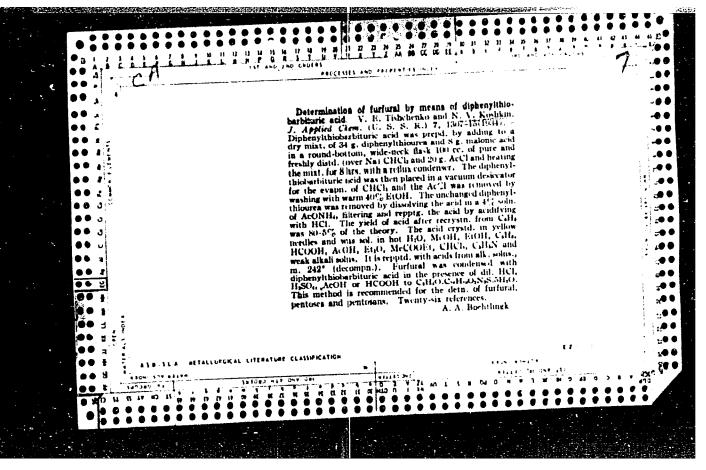
Card 1/1

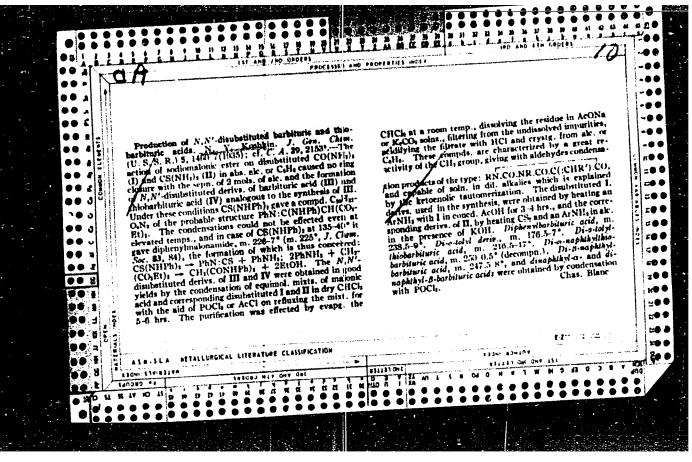
"Inaudible sounds." B.B.Kudriavtsev. Reviewed by N.P.Koshkin.

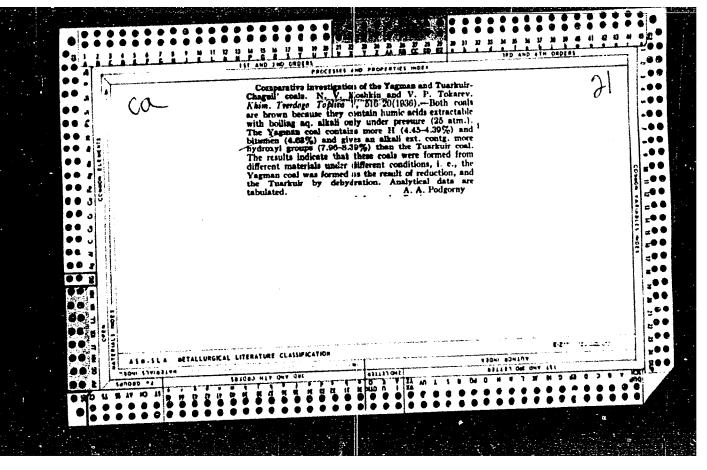
Znan.sila no.4:27 Ap 154. (MLRA 7:5)

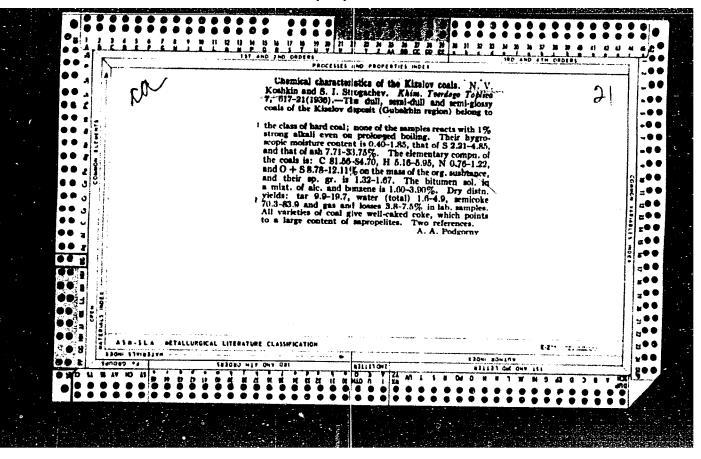
(Ultrasonic waves) (Kudriavtsev, B.B.)

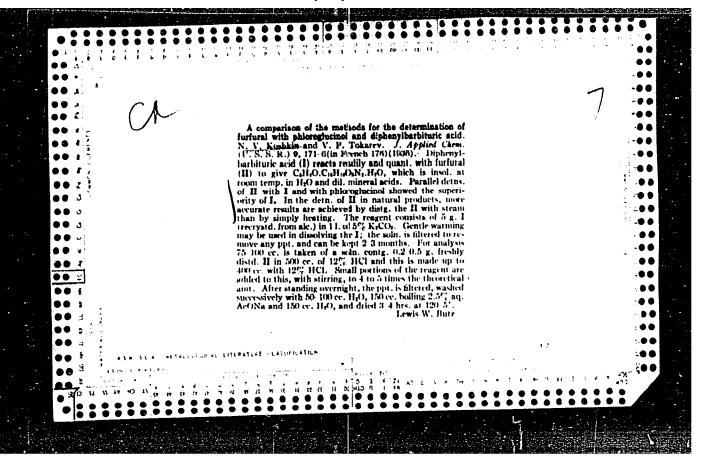


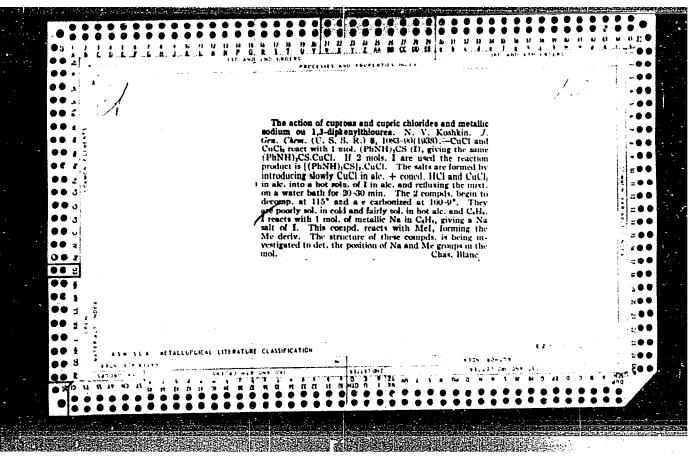












AUTHOR:	Koshkin, N. V.	7.5-1 3-3-9/27
TITLE:	The Use of Thiosemicarbazides in Ana semikarbazidov v analize)Communicati termination of Monovalent and Bivale 1-Phenylthiosemicarbazide (Socbshche opredeleniye odnovalentnoy i dvukhvachi 1-feniltiosemikarbazida)	on I. Quantitative De- nt Mercury by Means of niye I. Kolichestvennoye
PERIODICAL:	Zhurnal analiticheskoy khimii,1958, -311 (USSR)	Vol. 13, Nr 3, pp. 308-
ABSTRACT: For the quantitative titrimetric determination author used 1-phenylthiosemicarbazide as librium of the respective reaction: Hg(NO -> 2 NO ₃ + [Hg(\$6_{H_5}\$NHNHCSNH ₂) ₂] ²⁺ is practically in the practical statement of the p		le as a reagent. The equi- Hg(NO ₃) ₂ + $2C_6H_5$ NHNHCSNH ₂
	displaced to the right due to the ve the complex [Hg(C ₆ H ₅ NHNHCSNH ₂) ₂] ²⁺ .	ery low dissociation of Bivalent and monovalent
Card 1/4	mercury can be determined by means of zide; an 0,1m solution of copper nitr To a large extent diluted solutions zide react with copper salts under f	of 1-phenylthiosemicarba- cate serves as indicator. of 1-phenylthiosemicarba-

The Use of Thiosemicarbazides in Analysis. Communication I. 75-13-3-9/27 Quantitative Determination of Monovalent and Bivalent Mercury by Means of 1-Phenylthiosemicarbazide

vely blue colored soluble complex [Cu(C6H5NHNHCSNH2)2 2+ In concentrated solutions a precipitate may be deposited. The blue copper complex is by ions of bivalent mercury converted to the more stable mercury complex [Hg(C6H5NHNHCSNH2)2]2+ which according to the concentration of the solution has a light yellow to yellow color. The determination is performed in a manner that some drops of copper nitrate solution are added to a certain amount of an acetic acid solution of 1phenylthiosemicarbazide, and then this titrated. The turn is very marked from blue to yellow. In the determination of monovalent mercury it has to be taken into account that the equi-Hg2+ + Hg always exists. 1-phenylthiosemilibrium |Hg carbazide reacts with the Hg2+-ions under formation of the above-mentioned stable complex and thereby displaces the equilibrium to the right. Metallic mercury is precipitated. In order to avoid that this precipitate disturbs the determination of the end point, the acetic acid solution of the reagent is diluted with the 75-100 fold amount of water, 1 equivalent

Card 2/4

The Use of Thiosemicarbazides in Analysis. Communication I. 75-13-3-9/27 Quantitative Determination of Monovalent and Bivalent Mercury by Means of 1-Phenylthiosemicarbazide

of the reagent thus corresponds to 2 equivalents of monovalent mercury. This method permits the determination of small amounts of monovalent and bivalent mercury in diluted solutions. Mercury must be present in nitrate form, as chloride and bromide ions render the determination difficult. Silver and tin (IV) ions are also disturbing; the major part of the other anions and cations does not disturb the determination of mercury. The analysis can be performed in an acid solution within a wide range of pH. The authors also worked out a method for the quantitative determination of 1-phenylthiosemicarbazide and other thiosemicarbazides by titration with a solution of mercury nitrate. Copper nitrate serves as indicator. In the determination of mercury as well as in the determination of the thiosemicarbazides it is important to titrate with the mercury solution and not with the solution of the thiosemicarbazide. The synthesis of 1-phenyl_thiosemicarbazide from ammonium thiocyanate and phenylhydrazine--hydrochloride as well as the performance of the mercury determination are described in detail.

Card 3/4

The Use of Thiosemicarbazides in Analysis. Communication I. 75-13-3-9/27 Quantitative Determination of Monovalent and Bivalent Mercury by Means of 1-Phenylthiosemicarbazide

There are 2 tables and 6 references,

which are Soviet.

ASSOCIATION:

Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti (Leningrad Technological Institute of Food Industry)

SUBMITTED:

April 25, 1957

1. Mercury-Determination

Card 4/4

CIA-RDP86-00513R000825110016-7" APPROVED FOR RELEASE: 06/14/2000

AUTHOR:

Koshkin, N. V.

79-28 -3-30/61

TITLE:

The Synthesis of Di-Substituted Amidines From Di-Substituted Thiourea and Magnesiummethyliodide

(Polucheniye dizameshchennykh amidinov iz dizameshchennykh

tiomochevin i magniyyodmetila)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3,

pp. 695-698 (USSR)

ABSTRACT:

For the synthesis of amidines several methods were suggested of which those were regarded as fundamental for some time which are based on the reaction of ammonia with iminochlorides or with esters of orthocarboxylic acids. Recently, the syntheses of the amidines from nitriles, cyanides and ammonium salts have been elaborated (ref. 1). Di-substituted amidines of the aromatic series are produced

by the reaction of magnesium organic compounds with carbodiphenylimides, from anilides of fatty acids and

aniline, or from a mixture of fatty acid and aniline (ref. 2). In this work the methods of the syntheses of amidines from N_0N^4 -di-substituted thiourea and magnesiummethyliodide were

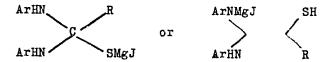
Card 1/4

The Synthesis of Di-Substituted Amidines From Di-Substituted 79-28-3-30/61 Thiourea and Magnesiummethyliodide

described; they are based on the linking of the magnesium organic compound at the double bond of the group

$$> C = S$$
 or $> C = N$

under the formation of the intermediate product



Independently of the fact whether the thiourea enters into reaction with the magnesium organic compound in normal-or in isoform, the formation of the amidines takes place in dilution of the intermediate product with water that is to say:

Card 2/4

The Synthesis of Di-Substituted Amidines From Di-Substituted 79-28-3-30/61 Thiourea and Magnesiummethyliodide

Thus the following compounds were synthetized: N,N'-diphenylacetamidine N,N'-di-p-tolyl-, N,N'-Di-m-tolylacetamidine, N,N' Di-o-anisidineacetamidine and N,N'-allylphenyl-acetamidine. Thanks to the presence of an amidine group in the isothiourea they are capable of forming amidines with maionic acid ester by subsequent hydrolysis. There are 1 table, and 2 references.

Card 3/4

The Synthesis of Di-Substituted Amidines From Di-Substituted 79-28-3-30/61 Thiourea and Magnesiummethyliodide

ASSOÇIATION:

Leningradskiy tekhnologicheskiy institut pishchevoy

promyshlennosti

(Technological Institute for Food Industry, Leningrad)

SUBMITTED:

June 8, 1957

Card 4/4

 $\cdot 5(2)$ AUTH OR:

Koshkin, N. V.

807/156-59-1-22/54

TITLE:

A Titrimetric Determination of Copper, Cadmium and Meroury (Titrimetricheskoye opredeleniye medi, kadmiya i rtuti)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimisheskaya

tekhnologiya, 1959, Nr 1, pp 92096 (USSR)

ABSTRACT:

Whereas the thicsemicarbazides and their application for analysis have been investigated many times; hydrazodithiocarbamide has been given little attention so far. The preparation of hydrazodithiccarbamida from menchydrazine sulphate and rhodane aumonium is described as well as its reaction with copper, sadmium and mercury ions. In an hydrochloric solution white precipitates are formed and in a neutral solution cadmium remains dissolved, sepper forms a black precipitate, and mercury a yealow one. Hydrazodithiocarbamide reduces indine as far as to hydrogen indide. Highly dilute solutions (4 mg/100 ml) most be used because a disturbing yellowish turbidity coturs in more concentrated solutions. As hydrazedithleoarbamide can easily be obtained in chemical purity it can be used to determine the titer of .iodine solutions. Analytical prescriptions and analysis data

Card 1/2

501/156-59-1-22/54 A Titrimetric Determination of Copper, Cadmium and Mercury

> follow (Tables 1.4). There are 4 tables and 6 references, ! of which is Sowiet.

ASSOCIATION: Kafedra neorganicheskoy i analiticheskoy knimil Leningradskogo

tekhnologicheskogo imarituta plahchavoy promyahlennosti (Chair of Inorganic and Arelytical Chemistry of Leningrad

Technological Institute of the Foodstuffs Industry)

SUBMITTED: July 7, 1958

Card 2/2

KOSHKIN, N.V.

Determination of tin by means of copper aryl- and diarylthiosemicarbazidinates. Izv.vys.ucheb.zav.; khim.i khim tekh. 3 no.1: 56-58 '60. (MIRA 13:6)

1. Kafedra obshchey i analiticheskoy khimii Leningradskogo tekhnologicheskogo instituta pishchevoy promyshlennosti.

(Tin--Analysis)

(Copper compounds)

(Semicarbazide)

KOSHKIN, N.V.

Use of thiosemicarbazides in analysis. Report No. 2: Qualitative and quantitative determination of copper by means of aryl- and diarylthiosemicarbazides. Trudy kom. anal. khim. 11:211-216 60.

(MIRA 13:10)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlen-nosti.

(Copper -- Analysis) (Semicarbazide)



KOSHKIN, N.Y.

Use of thiosemicarbazides in analysis; Report No.3: Titrimetric determination of thiosemicarbazides with mercuric mitrate. Zhur. anal.khim. 15 no.2:147-150 Mr-Ap '60. (MIRA 13:7)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Semicarbazide) (Mercury nitrate)



KOSHKIN, N.V.

Use of thiosemicarbazides in analysis. Part 5: Use of copper 1-phenylthiosemicarbazidinate as an indicator in the mercurimetric determination of iodides and silver. Izv.vys.ucheb.zav.;khim.ikhim.tekh. 5 no.2:198-201 '62. (MIRA 15:8)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra analiticheskoy khimii. (Semicarbazide) (Silver—Analysis) (Iodides)

KOSHKIN, N.V.; SHREYNER, N.M.

Use of thiosemicarbazides in analysis. Report No.6: Qualitative and quantitative determination of cobalt by means of 1-phenylthiosemicarbazide. Zhur.anal.khim. 18 no.6:757-760 Je '63. (MIRA 16:9)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.

(Cobalt-Analysis) (Semicarbazide)

KOSHKIN, N.V.

Use of thiosemicarbazides in analysis. Report No.8: Mercurimetric determination of thiosemicarbazones. Zhur. anal.khim. 18 no.12: 1492-1496 D '63. (MIRA 17:4)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.

KOSHKIN, N.V.; AGREST, F.B.

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti i khimicheskaya laboratoriya zavoda "Elektrik", kafedra obshchey i analizicheskoy khimii.

KOSHKIN, N.V.

Use of diphenyl hydrazons oxalate dismide in analytical chemistry. Zhur.anal.khim. 20 no.5:534-539 '65.

(MIRA 18:12)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti. Submitted October 8, 1963.

KOSHKIN, P.I.; BUTENKO, P.S.

Experience in the use of the retreating mining method under conditions of a heaving floor. Ugol' 36 no.8:44 Ag '61.

(MTRA 14:9

1. Nachal'nik shakhty No.5/6 im. Dimitrova tresta Krasnoarmeyskugol'kombinata Stalinugol' (for Koshkin). 2. Zamestitel' glavnogo inzh. shakhty No.5/6 im. Dimitrova tresta Krasnoarmeyskugol' (for Butenko).

(Donets Basin -- Coal mines and mining)

NO 2 HARRIGA

GRIGORENKO, G.F.; starshiy leytenant meditsinskoy sluzhby; KOSHKIN, P.M., starshiy leytenant meditsinskoy sluzhby

Application of combined aerosol therapy in respiratory tract diseases. Voen.-med.zhur. no.8:83-84 Ag '57. (MIRA 10:12) (AEROSOIS, therapeutic use, resp.tract dis., variosu drug mixtures (Rus)) (RESPIRATORY TRACT, diseases, ther., aerosol admin. of various mixtures of drugs (Rus))

KOSHKIN, P.P., krayeved; SHUVALOV, Ye.L., dotsent; KOLOSHITSYN, V., red.; PAL'MINA, N., tekhm. red.

Kamyshlov. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1961. 134 p. (Mira 15:8)

KOSHKIN, S.

Vvedenie sevooborotov na oroshaemykh uchastkakh. /Introduction of crop rotation on irrigated lands/. Kursk, knizhnoe izd-vo, 1953. 88 p

SO: Monthly List of Russian Accessions, Vol 6 No 8 November 1953

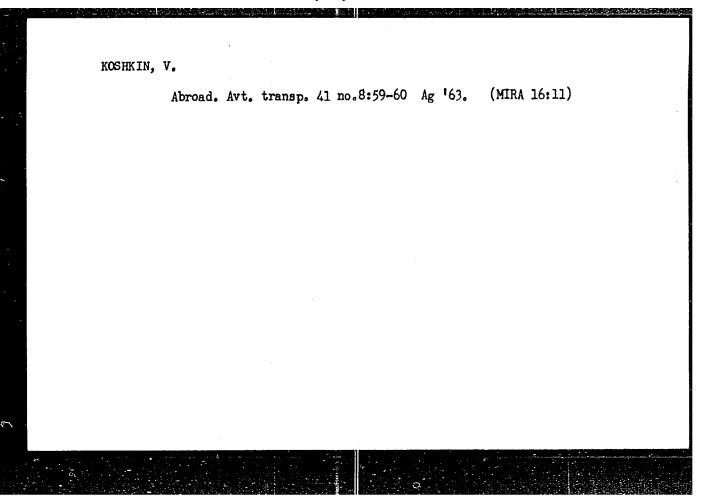
DARSKAYA, N.F.; GROKHOVSKAYA, I.M.; KOSHKIN, S.M.; KULAKOVA, Z.G.; SLONOV, M.N.

Geographical distribution of some species of fleas originally described as being from North Korea. Trudy Nauch.-issl. protivochum. inst. Kav. i Zakav. no.5:176-183 '61. (MIRA 17:1)

1. Nauchno-issledovatel skiy protivochumnyy institut Kavkaza i Zakavkaz ya, Institut epidemiologii i mikrobiologii AMN SSSR, Protivochumnoye otdeleniye porta Vanino i Institut meditsinskoy parazitologii i tropicheskoy meditsiny.

KOSHKIE, V.

Equipment for mounting of heavy spare wheels. Avt. transp. 36 no.12:54 D '58. (MIRA (MIRA 11:12) (Motortrucks--Wheels)



KOSHKIN, V.. brigadir kompleksney brigady kommunisticheskogo truda

Every brigade can become progressive. Sel'.stroi. 18 no.11:6 N '63. (MIRA 17:3)

1. Trest Ul'yanovsksel'stroy.

KOSHKIN, V.

Synthetic materials for floor coverings. Na stroi.Ros. no.4:23-25 Ap '61. (MIRA 14:6)

1. Rukovoditel' otdela primeneniya polimerov v stroitel'stve Vsesoyuznogo nauchno-issledovatel'skogo instituta novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR.

(Floor coverings)

New device for replacing gaskets. Zhil.-kom. khoz. 13 nc.5: 28 My '63. (MIRA 16:8) 1. Glavnyy inzh. tresta "Volgogradgorgaz." (Gaskets)

AYRAPETOV, D., arkhitektor; KOSHKIN, V., kand. tekhn. nauk; CSIPOV, G. kand. tekhn. nauk

Synthetic rolled floor coverings. Zhil. stroi. no.521-3 164 (MIRA 1727)

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GRDINA, Yu.V.; KOSHKIN, V.A.; GORDIN, O.V.; SAKHAROVA, N.A.

Inoculation of rail steel. Izv. vys. ucheb. zav.; chern. met. 6 no.10:129-133 '63. (MIRA 16:12)

1. Sibirskiy metallurgicheskiy institut.

S/133/61/000/005/005/009 A054/A133

AUTHORS: Plekhanov, P.S.; Koshkin, V.A.; Kritinin, I.A.; - Engineers

TITLE: The practice of rolling high-manganese rails

PERIODICAL: Stal', no. 5, 1961, 423 - 425

TEXT: Tests were carried out at the Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine) to produce high-manganese rail steel of the following composition (%): C 0.93; Mn 12.02; Si 0.09; P 0.09; S 0.021; Cr 0.05; Ni 0.13; Cu 0.14. The test ingots, 1.3 and 6 tons in weight, were left to cool in the molds for 4 days and, in order to increase the ductility of the cast steel they were subjected to the following homogenization process: 1) Loading the cold ingots into a firnace at a temperature of 300°C, 4 h 30 min holding; 2) heating from 300 to 700°C in 7 h 40 min, with an average temperature increase of 52°C/h; 3) heating from 700 to 1,C50°C in 5 h 50 min, with a temperature increase of 60°C/h; 4) holding at 1,050 - 1,080°C for 48 h and cooling in air in the neighborhood of the furnace. No carbide phase was found after homogenization in the steel structure. Heating the 1.3-ton ingots in a continuous furnace was carried out in the following stages: 1) In the continuous zone (5 h 25 min) at a

Card 1/3

S/133/61/000/005/005/009 A054/A133

The practice of rolling high-manganese rails

temperature of 530°C near the charge door; 2) heating zone (4 h 45 min) at a temperature of 1,200 - 1,235°C in the upper part and 1,160 - 1,200 - 1,165°C in the lower part (the metal temperature: 1,135 - 1,100°C); 3) soaking zone (2 h 30 min) at a temperature of 1,220 - 1,230°C in the upper part (the metal temperature: 1,100 - 1,150°C), the ingots are turned 3 times through 90°. The 6-ton ingots were heated from 100 to 800°C in 9 h with an average temperature increase of 66°C/ /h and from 800 to 1,030°C in 7 h 20 min at the rate of 33°C/h. It was found upon rolling these ingots that the reduction in the first passes had to be 30 -40 mm, in the following passes 50 - 60 mm. The rails made of high-manganese steel proved satisfactory in the drop test [according to [OCT (GOST) 6944-54]. The radius of bending was twice as great as for carbon-steel rails, while after rolling the following values were obtained: σ_s : 30 - 32 kg/mm²; σ_B : 70 - 73 kg/mm²; δ: 20 - 22%; ψ: 19 - 20%. The metal structure of the specimens (water or air cooled) consisted of austenite polyhedra without a carbide phase; the rails, therefore, can be used without any additional hardening in water. The following scientific workers participated in the tests: M.M. Bazhenov, I.L. Vaynshteyn, P.G. Popov, N.I. Zakharenko, I.V. Manchevskiy (all from the Kuznetsk Metallurgical Combine); Yu.V. Grdina, A.P. Govorkov, N.A. Nesterov, V.I. Grigorkin [all from the Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Insti-

Card 2/3

tute)]. There are 2 tables.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat [Kuznetsk Metallurgical (Integrated) Plant]

Card 3/3

GOVOROV, A.A.; KOSHKIN, V.A.; GORDIN, O.V.; TUZOVSKIY, A.I.; SAKHAROVA, N.A.; LYMAR', A.I.

Effect of the temperature of the end of rolling on the mechanical properties of rail steel. Izv. vys. ucheb. zav.; chern. met. 6 no.8:137-140 '63. (MIRA 16:11)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.

MIKHAYLETS, Nikolay Semenovich; GORELKINA, Aleksandra Yevseyevna;
KOSHKIN, Vladimir Andreyevich; NIKULIN, Nikolay Grigor'yevich;
DARUSHIN, Ratmir Ivanovich; SAKHAROVA, Nina Alekseyevna;
LYMAR', Adol'f Ivanovich; LOSKUTOVA, Lyudviga Vladimirovna;
RUDNEVA, Raisa Semenovna

[Manufacture of rails at the Kuznetsk Metallurgical Combine]
Proizvodstvo rel'sov na Kuznetskom metallurgicheskom kombinate.
Moskva, Izd-vo "Metallurgiia," 1964. 222p. (MIRA 17:6)

AFANAS'YEV, S.G.; DUKHANIN, A.S.; KVITKO, M.P.; SHUMOV, M.M.;
DARUSHIN, R.I.; KOSHKIN, V.A.; ZAKHARENKO, N.I.;
KRITININ, I.A.

Railroad rails made of oxygen-blown converter steel. Stal' 24 no.1:72-73 Ja '64. (MIRA 17:2)

CIA-RDP86-00513R000825110016-7

KOSHKIN, V. G. (Engineer)

"The Industrialization of Interior Plastering Work in Residential Buildings (An Investigation of the Methods of Carrying Out the Work)." Cand Tech Sci. Sci-Res Inst of Construction Engineering, Acad Sci USSR, 17 Dec 54. (VM, 8 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUN No. 556, 24 Jun 55

#OSHKIN, V., kundidat tekhnicheskikh nauk.

Finishing work and materials in Belgium. Stroitel' 2 no.6:18-19
Je '56.

(Belgium-Building)

KOSHKIN, V.G., kand, tekhn nauk.

Factory finishing of large-sized lightweight concrete wall blocks and panels. Bet. 1 zhel.-bet. nc.6:246-249 Je '57. (MLRA 10:11)

(Finishes and finishing) (Concrete blocks)

Wing a special varnish in finishing parquet and board floors.

Na stroi. Mosk. 1 no.6:21 Je '58. (MIRA 11:9)

(Floors) (Varnish and varnishing)

KOSHKIN, V., kand. tekhn.nauk

Jointless mastic floors. Stroitel' no.6:33 Je '58. (MIRA 11:7)

(Floors) (Plastics)

KRESTOV, M.A.; DOBRYAKOVA, L.I.; KOSHKIN, V.G.; YEVDOKIMOV, A.A.;
IVANOVA, V.V.; KHMELEVSKIY, V.A.; KOSTOCHKINA, T.V.; PFLAUMER,
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