21119

S/149/61/000/003/002/00= A006/A106

18 1215

1087, 1521 also 1208, 1160

AUTHORS: TITLE:

Nichkov, I. F., Smirnov, M. V. Electrolytic preparation of beryllium-zinc alloys at temperatures

below 1,000°C

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya meta:lurgiya, no.

3, 1961, 104 - 107

Literature data indicate the possibility of obtaining berylliumzinc alloys, but there is no information available on the nature of interaction of these elements and on the properties of their alloys. The authors studied the nature of interaction of berryllium and zinc at temperatures up to 1,000°C. Alloys of these elements were obtained by electrolysis of berryllium-containing melts with liquid zinc cathode permitting the accurate regulation of the alloy composition and of the rate of supplying one component to the surface of the other one. Alloys from a molten chloride bath were obtained in a closed electrolytic cell (Figure 1) with a molten zinc cathode. The electrolyte temperature was 700 + 10°C. Prior to electrolysis the melt was blown through with dry hydrogen obloride. After termination of the experiment the alloy was cooled either together with the electrolyte,

Card 1/3

21119

S/149/61/000/003/002/004 A006/A106

Electrolytic preparation of berryllium-zinc ...

or in air, by pouring the content of the electrolytic cell on a stainless steel griddle. Thermal decomposition of the alloy was studied by placing it into an alun dum crucible on the bottom of a hermetically sealed quartz tube in a sill heating furnace. At a constant pressure in the tube of  $10^{-2}$  -  $10^{-3}$  mm Hg, the temperature in the furnace increased at a rate of 350°C per h. After 3 h holding at 1,000 -1,050°C the unit was cooled down to room temperature. Zinc-beryllium alloys were also prepared by direct alloying of the metals by introducing a piece of beryllium metal into the molten zinc at  $800 - 850^{\circ}$ C and holding for 9 - 70 h. It was found that at 700 - 900°C beryllium was well wetted with liquid zinc and dissolved in it in small amounts; the solubility of zinc in solid beryllium could not be established. The experiments proved the possibility of preparing bi-phase Zn-Be alloys by deposition of beryllium on a liquid zinc cathode from molten salt electrolytes; it is shown that such alloys are composed of beryllium particles suspended in liquid zinc. Their fluidity is preserved at a content of up to 6 weight % Be. The experiments on the chemical and thermal decomposition in a vacuum of zinc-beryllium alloys show that at over 1,000°C zinc may be entirely sublimated in a vacuum and pure beryllium powder may be obtained. There are 6 figures and 9 references: 4 Soviet-block and 5 non-Soviet-block. [English references: A. R. Kaufman, P. Gordon D. W. Lillie. Trans. Amer. Soc. Metal, 42, 1950; J. G. Beach, C. L. Faust, J.

Card 2/3

21119 S/149/61/000/003/002/004 A006/A106

Electrolytic preparation of beryllium-zine ...

Electrochem. Soc., 100 (6), 276 (1953); G. V. Raynor, J. of the Royal Aeronautical Soc., 50, 390 (1946)]

ASSOCIATION:

Ural skiy politekhnicheskiy institut (Ural Polytechnic Institute)

Fiziko-tekhnicheskiy fakultet (Physicotechnical Division)

SUBMITTED:

January 11, 1961

### Figure 1:

Schematic drawing of a closed electrolytic cell.

1 - graphite anode; 2 - rubber seals; 3 - glass
tubes; 4 - cover; 5 - electrolyte; 6 - zinc
cathode; 7 - thermocouple; 8 - molybdenum power
connection to the cathode; 9 - thermocouple housing; 10 - porcelain bucket; 11 - alundum crucible.

Card 3/3

NICHKOV, I.F.; RASPOPIN, S.P.; BAZHKOV, Yu.V.

Polarization of a liquid bismith cathods in chloride melts. Zhur.

prikl.khim. 34 no.7:1533-1536 Jl '61.

(Bismith) (Polarization (Electricity)) (Chlorides)

(Bismith) (Polarization (Electricity))

s/020/61/141/005/011/018 3103/3110

Nichkov, F., Ryzhik, C. A., and Raspopin, S. F.

Interaction of bismuth chloride and chlorides of the alkali AUTHORS:

TITLE:

Akademiya nauk SSSR. Doklady, v. 141, no. 5, 1361, 1113-1116

TEXT: The nature of the interaction of BiCl3 with KCl and NaCl was determined between 700 and 850°C. The equilibrium potentials of metallic bismuth were measured for this purpose in electrolytes of different BiCl3 contents in quartz test tube (Fig.). Electrolytically purified B1 was added after complete fusion of the equimolar chloride mixture. BiCl3 was produced in the electrolyte by anodic dissolution of a part of the Bi contained in the crucible. A molybdenum electrode was placed in the electrolyte contained in the quartz test tube such that the crucible served as diaphragm separating analyte and catholyte. The test take was evacuated and filled with purified helium. The Bi potentials were measured related to the chlorine reference electrode by a highly resistant NATB-1 (PPTV-') potenticmeter, a galvanemeter having a sensitivity of

Sard 1/5

S/C2O/61/141/OC5/C1-/C18 B103/B110

Interaction of bismuth chior. te

Card 2/5

10<sup>-9</sup> a per scale division was used as hill detector. The melt was heated by an autotransformer and its temperature was kept constant by the two measuring instruments. A lecrease of the enf-values between the Bi ani the Cl electrode was found with decreasing temperature; these values were measured at different tem eratures in melts obtaining 1.13 (1), 3.05 (2), and 12.06 (3) % by weight of Bi. The plints experimentally found fall satisfactorily on the straight lines satisfying the following empirical equations:  $E_1 = 1.446 - 2.05.10^{-4} \text{T V}; E_2 = 1.412 - 0.90.10^{-4} \text{T V};$  $E_{\rm x} = 1.379 - 3.00.10^{-1} T$  . The measured values included besides the electrochemical potential difference desired the thermo-emf between molybdenum and carbon conjustors with reversed sign. Its temperature dependence is:  $\mathcal{E}_{\underline{m}}$  = 0.005 - 0 \*\*\*.\* (  $4\underline{m}$  ). If the therms-emf between the graphite bar of the Cl electrode and the Mo conductor to Bi is considered, the Bi equilibrium jutentials related to the Cl reference electrole are identical. It is included from the values measured that the equilibrium potential of metallic 3. related to the 31 reference electrode is expressed by the thermodynamic Nermist equation. This means that the liquid Bi electrode is reversible as to the Bid it as in other demelts. These

s/020/61/141/005/011/015 3103/3110

Interaction of bismuth obligate ...

behave as ideal solutions in the BiCl, concentration range involventual on the assumption that this ideal behavior continues in the entire TeCle concentration range up to pire melted BiCl, the end of the bell concentration range up to pire melted BiCl, the end of the bell the basis of the authors' experimental lata. They benefit relations of the emf of such a cell is (balculated on the basis of Ref. ), see tells' of the emf of such a cell is (balculated on the basis of Ref. ), see tells' by a mainly due to the fact that the melts cease to be ideal solutions at high BiCl, concentrations. This means that changes in concentration are accompanied by a regrouping if the Bi ions; the nature of this reor epide is determined by  $E_g = E_{TC}$ . It corresponds to the change if the isobarial potential on transition from pure melted BiCl, to its dilute solutions which behave as ideal solutions:  $\Delta Z_{mix} = -3F(E_g - E_{m}) = (-5cit - 16.42T) calfine at (<math>\Delta H_{mix} = 5.61$  kbal), a evolved and the entropy ( $\Delta S = 46.4$  cal/depth legal  $\Delta S = 46.4$  call/depth legal  $\Delta S = 46.4$  c

\$/020/61/141/035/211/115 3103/3110

Interaction of bismath only ride

increases. Thus, it is proved that the norms between the  $\frac{1}{12}$  dias and the chloride anions belong stringer and that onlines or use if the order type are formed. The shirt-range order of the cost of the median type are formed. The remaining bid cost into the Diams stringer than this is done by the ions of the alkali metal of a late of this reason. End is found in dilute solutions bainly in the form of and a conjected the BiCl(n-3), where  $n \ge 1$ . With regard to the name of the isosomethe BiCl(n-3), where  $n \ge 1$ . With regard to the name of the isosomethe value can equally be calculated from  $\Delta Z_{mix}$  by extragolation to the value  $298^{\circ}$ K, whereby the latent heat (1.6 adial/molecular) the melting entrance (5.2 cal/deg-mole) have to be ordered.  $\Delta Z_{mix}$  by extragolation to the complex groups in the melts mentioned (5.2 cal/deg-mole) have to be ordered.  $\Delta Z_{mix}$  in the cost of the complex groups in the melts mentioned (5.2 cal/deg-mole) and (5.2

# "APPROVED FOR RELEASE: Monday, July 31, 2000

# CIA-RDP86-00513R001136830

S/020/61/141/005/011/018 B103/B110

Interaction of bismuth chloride ...

elementov i ikh potentsialy v vodnykh rastvorakh (Oxidative state of elements and their potentials in aqueous solutions), IL, 1954.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut im. S. M. Kirova

(Wral Polytechnic Institute imeni S. M. Kirov)

PRESENTED:

July 14, 1961, by V. I. Sritsyn, Academician

SUBMITTED:

July 10, 1961

Fig.

Card 5/5

S/149/62/000/004/001/003 A006/A101

AUTHORS:

Nichkov, I. F., kaspopin, S. P., Golubev, V. I.

TITLE:

Anodic dissolving of tantalum in chloride melts

PERCENTUAL: Izvestiya vysskikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no.4,

1962, 1 ... - 1.0

TEYE: To replace methods of mechanically removing tantalum coatings by the electrolytical method, anodic dissolving of tantalum in KCl-LiCl melts was investigated at 400 - 700 C (Fig. 1). Corrosion of tantalum metal was determined in the melts, to analyze the results of anodic dissolving. Anodic polarization of tantalum metal was experimentally investigated, to evaluate the sequence of anodic dissolving processes. Results: Tantalum corrosion in the melts investigated is low and increases with elevated temperatures. It changes slightly when fluorides are added to the melt. Highest current efficiency is obtained in a chloride bath with a current density below 0.5 amp/cm2. At an increase of anode current density from 6.03 to 1.0 amp/cm2the portion of tantalum ions of higher valence passing into the electrolyte, increase, As a result the anodic current efficiency drops. Results of measuring the way to be tended show that with a nigher anodic current density

Dar. /.

## "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136830

S/149/62/000/004/001/00<sup>2</sup> A006/A101

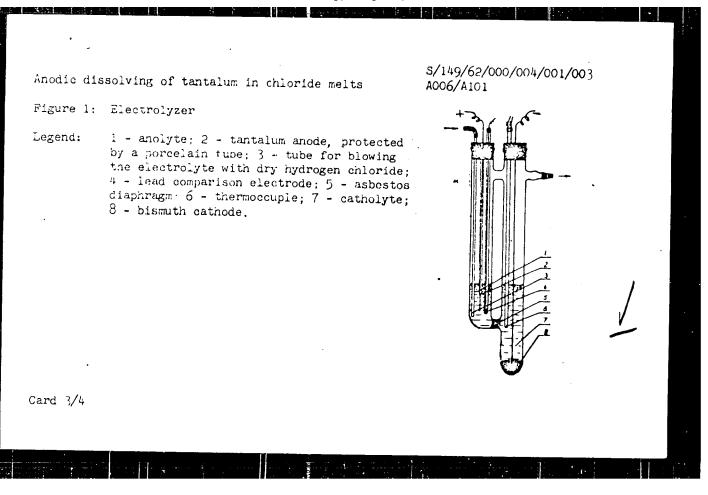
Anodic dissolving of tantalum in chloride melts

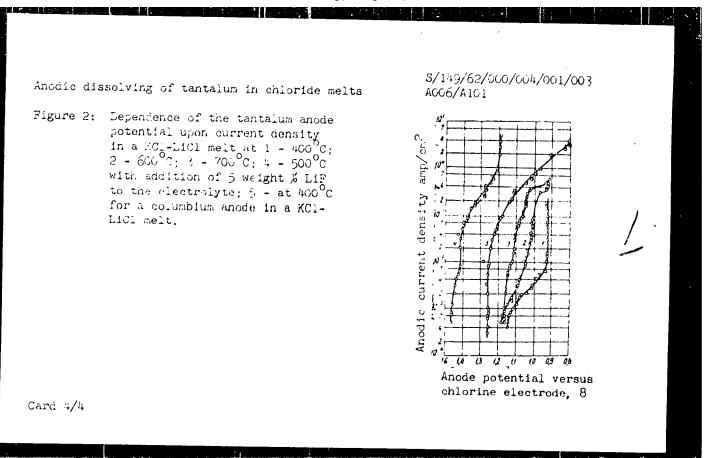
the anodic potential is shifted toward more positive values (figure 2). The addition of alkali metal fluorides to the electrolyte shifts the anode potential to the negative side and stabilizes tantalum dissolving, accompanied by the appearance of ions of higher valence. Polarization curves are shifted to the negative side at increasing temperatures due to the presence of Nb in tantalum metal. There are 2 tables and 3 fluores.

ASUBCIATION: Ural'UKIV politekhnicneskiy institut (Ural Polytechnic Institute)

Schotter: January 7, 1999

Card 2/4





386.03

5/149/62/000/003/005/011 A006/A101

AUTHORS:

Nichkov, I. F., Ryzhik, O. A., Raspopin, S. P.

TITLE:

The effect of thorium on electrode potentials of bismuth in alkali-

metal chloride melts

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,

no. 3, 1962, 113 - 116

To investigate the effect of the cation of a streng complex-forming salt upon bismuth behavior in alkali metal chloride melts, equilibrium potentials of bismuth were measured in such melts, containing thorium and bismuth, at various temperatures (950 - 1,100 K). An equimolar mixture of potassium and sodium chlorides with 3.1 weight percent ThCl4 and 1.7 weight percent BiCl3 was used as an electrolyte. After melting the mixture was refined by electrolysis. The emf of the cell were measured every 25 - 30 minutes for 6 - 8.5 hours. The electrolyte temperature was maintained within 700 - 85045°C. After the experiment the thorium and bismuth content of the electrolyte were analyzed. For comparison, the temperature dependence of a bismuth electrode without ThCl4, determined pre-

Card. 1/2

The effect of ...

S/149/62/000/003/005/011 A006/A101

viously, is given. It appears that bismuth potentials in a KCl-NaCl-ThCl $_4$ -BiCl $_3$  melt are by about 80 mv more positive than corresponding values in the same melts without thorium tetrachloride. The introduction of a strong complex-forming agent, such as thorium affects the interaction of Bi $^{3+}$  and Cl $^{-}$  ions, which becomes weaker. The BiCl $_2^+$  + 2Cl $^ \Longrightarrow$  BiCl $_4^-$  equilibrium is shifted to the left. Consequently the Bi potential in such melts becomes more positive. There is 1 figure.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: December 20, 1961

Card 2/2

NICHKOV, I.F.; RASPOPIN, S.P.; GOLUBEV, V.I.

Anodic solution of tantalum in chloride melts. Izv. vys. ucheb.
zav.; tsvet. met. 5 no.4:132-136 '62. (MIRA 16:5)

1. Ural'skiy politekhnicheskiy institut.
(Tantalum—Electrometallurgy)

NICHKOV, I.F.; RASPOPIN, S.P.; TSARENKU, A.F.

State of zince in fused chlorides. Izv. vys. ucheb. zav.; tsvet. met.
5 no.5:89-92 '62.

1. Ural'skiy politekhnicheskiy institut.
(Zinc-Electric properties) (Fused salts)

8/137/62/000/011/007/045 A052/A101

AUTHORS:

Nichkov, I. F., Raspopin, S. P., Devyatkin, V. I.

TITLE:

Cathode deposition of Zr from molten U-containing haloids

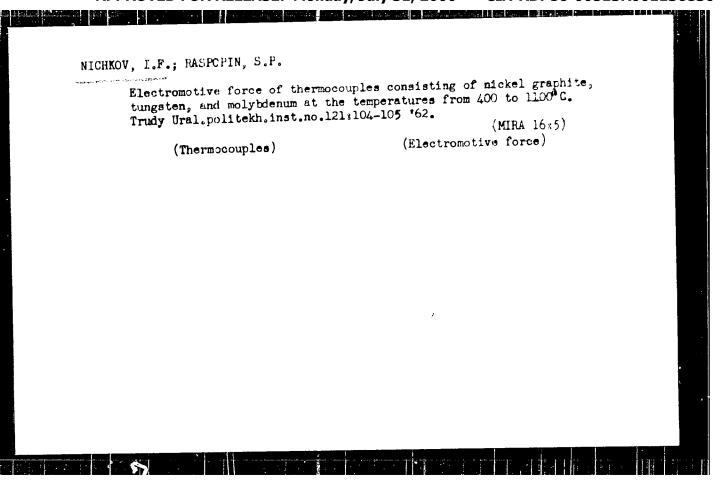
PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 15, abstract 11G105 ("Tr. Ural'skogo politekhn. in-ta", no. 121, 1962, 16 - 23)

TEXT: Cathode polarization of Mo-cathode in molten haloids containing U and Zr was studied. The experiments were carried out in hard glass electrolyzers at 600 - 700°C with catholyte and analyte separated by an asbestos diaphragm. It was found that at an electrolysis with low  $D_c$  (0.1 a/cm²) Zr was deposited first. Catholyte was a molten equimolar mixture of Na and K chlorides or a eutectic mixture KCl-LiCl to which a certain amount of UF4 and K2ZrF6 was added. There are 12 references.

O. Svodtseva

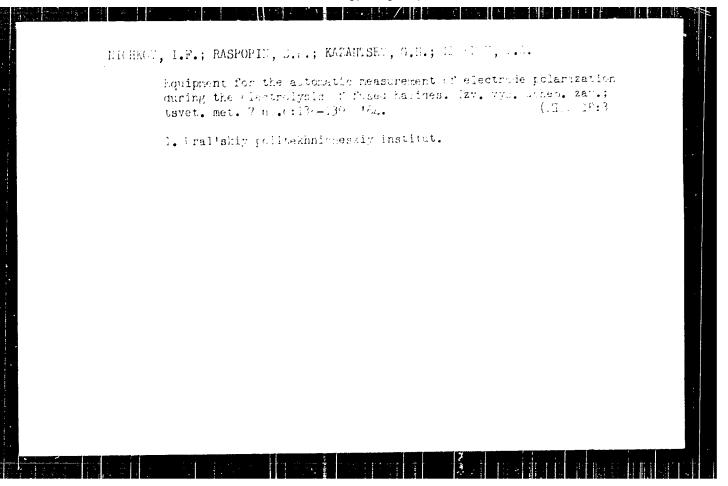
[Abstracter's note: Complete translation]

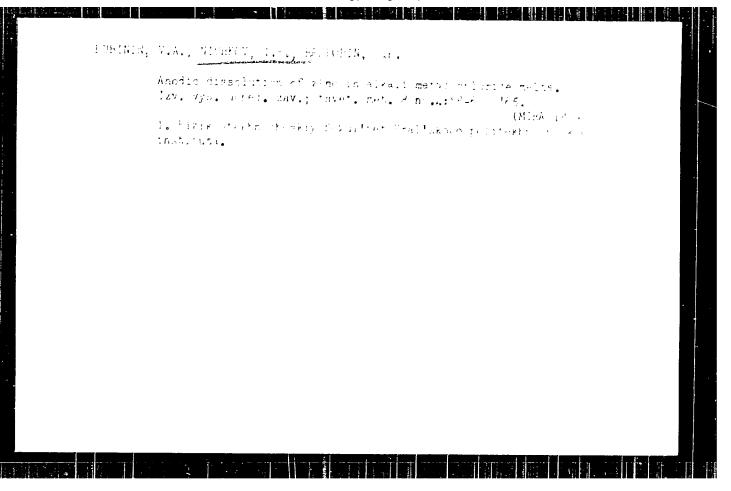
Card 1/1



MICHKOV, I.F.; RASPOFIN, S.P.; TSARENEO, A.F.

Uranium displacement by zinc fr m chloride melts. Atom. energ. 15 no.4:336-337 0 '63. (MIRA lo:10)





# "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136830

137(c) JD/36 EWT(m)/EWP(t)/ET1 SCURCE CODE: UR/0136/66/000/001/0065/006 L 33928-66 AP6017654 ACC NEL AUTHOR: Nichkov, I. F.; Raspopin, S. P.; Babikov, L. G. CRG: none TITLE: Electrodeposition of beryllium from chloride-fluoride melts SOURCE: Tsvetnyye metally, no. 1, 1966, 65-67 TOPIC TAGS: electrodeposition, beryllium, beryllium compound, fluoride, oxyfluoride ABSTRACT: Experiments involving dissolution of beryllium oxide in chloride-fluoride melts were carried out in open quartz test tubes at 700-350°C. The amount of dissolved oxide was found to increase with the sodium fluoride concentration; apparently, the oxide reacts with the fluoride ion to form complex oxyfluoride groups. In alkali metal chlorides and sodium fluoride, BeO dissolves in amounts up to 0.5% by weight. Beryllium was electrodeposited from melts containing NaF, BeO, and BeF2 in various proportions, and beryllium metal was obtained in all cases. Low current efficiencies are attributed to the deposition of the alkali metal at the cathode. The most suitable melt for the electrolysis is one containing an admixture of beryllium oxyfluoride. In such electrolytes, the cathodic current efficiency reached 40% for a relatively high initial current density. The effect of the oxide BeO introduced into the melt on the anodic process was determined. A study of the electrode potentials and 669.725.054.72 1/2

L 38928-66

ACC NR: AP6017654

polarization curves indicates that BeO actually dissolves in the melt, thus changing the ionic composition of the electrolyte. Since this solubility is slight, the discharge of chloride ions is achieved in a relatively short time. Orig. art. has: 2 figures and 1 table.

SUB CODE: 07,11/ SURM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 2/2

	EWT(m)/EWP(t)/i AP6017605	$\frac{\text{MI}  \text{LJP}(c)}{(A)}$	ES/JD/WW/JW/JG SOURCE CODE: UR/0364/66/002/002/0160/0166	
		` '	Regrenin S. P.	
dornon:	Lecedev, v. A., h	TCIROV, I. P	Raspopin, S. P.	
			eni S. M. Kirov, Sverdlovsk (Ural'skiy	
olitekh	nicheskiy institut	.)	41 41	
MITTLE:	Thermodynamics of	molten solut	tions in the uranium-biamuth system	i
SOURCE:	Elektrokhimiya, v	r. 2, no. 2,	1966, 160-166	
thermody	namic characterist	ic, solution	lloy, nonferrous liquid metal, galvanic cell, a kinetics, solubility	
y measu crations	ring the electomot ranging from 0.00	tive force in 002 to values tion of the g	es of molten uranium-bismuth solutions are studied in special galvanic cells with urnaium concensis close to the maximum solubility at temperatures galvanic cells used in the experiments was an experiment which was a subject to the experiments which w	
hloride	s was used as the ssium chlorides was atmosphere at ter	electrolyte is used at his speratures he	up to 698°, and an equimolar mixture of sodium igher temperatures. The experiments were done is eld constant within ±1°. It is shown that soluct Henry's law practically up to the limit of soluct	:
a helium	' uranium in bismu'	th conform to	C Helli a raw practically up to	1-

# L 34849-66 ACC NR: AP6017605 bility for uranium throughout the entire temperature range studied. The effect of temperature on the coefficient of activity for uranium in the alloy with respect to solid uranium is given by the equation lnyo=7107-3995/T°K. The thermodynamic characteristics for the formation of liquid alloys from supercooled liquid uranium and liquid bismuth are calculated. It is found that liquid alloys of uranium with bismuth are characterized by extremely strong interaction between the components which decrease somewhat as the temperature is raised. Orig. art. has: 3 figures, 1 tables, 1 formula. SUB CODE:11,20/ SUBM DATE: 26May65/ ORIG REF: 005/ OTH REF: 005 Cord 2/2 W

NICHKOV, I.P.; RASPOPIN, S.P.; TSARENKO, A.F.

State of zinc in fused chlorides. Izv. vys. ucheb. zav.; tsvet. met.
5 no.5:89-92 '62. (MIRA 15:10)

1. Ural'skiy politekhnicheskiy institut.
(Zinc—Electric properties) (Fused salts)

L 06532-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JG

ACC NR: AP7000474

SOURCE CODE: UR/0089/66/020/004/0346/0346

LEBEDEV, V. A., NICHKOV, N. F., RASPOPIN, S. P. and BUKREYEV, YU. F.

"Determination of <u>Uranium</u> Solubility in <u>Bismuth</u> by the EMF Method"

Moscow, Atomnaya Energiya, Vol 20, No 4, 1966, 1 346

Abstract: Results are presented of the study of the solubility of uranium in bismuth in the 400-800°C range by the EMF method. The results obtained are in excellent agreement with those obtained by the high temperature filtration method. The liquidus line can be represented approximately by two straight lines whose equations have the form:

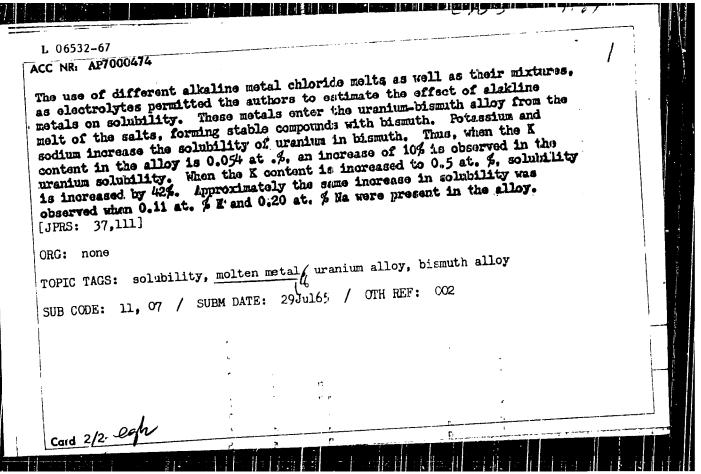
$$lgC_U(wt \%) = 2.480 - \frac{2160}{T_*}$$
 (400\_480°C);

$$1gC_{U}(wt \%) = 3.354 - \frac{2810}{T. ^{\circ}K}$$
 (480\_800°c).

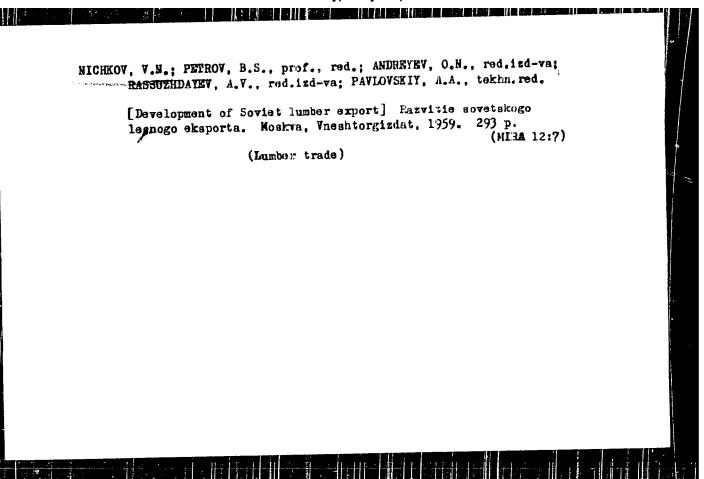
The break and increased slope of the liquidus line are observed at 480°C. The deviation from experimental values of solubility does not exceed 3%.

**Card** 1/2

UDC: 541.135



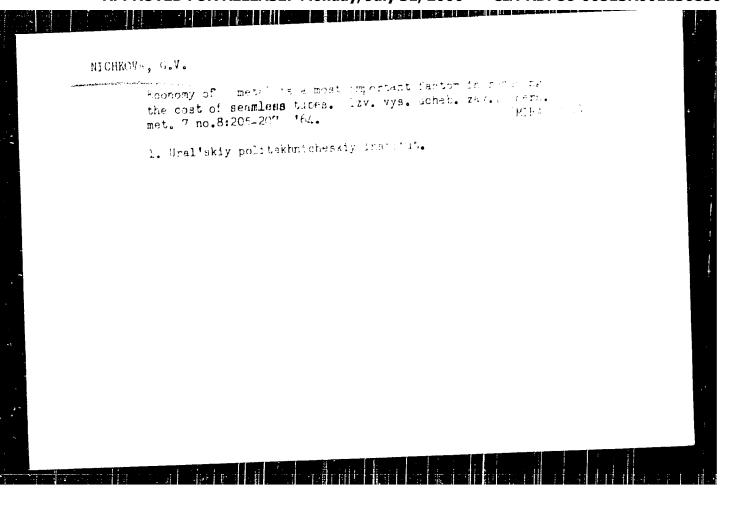
NESTEROV, M.; KHONKAYURI, P.; RODNOV, V.; VAL'FORS, V.; NICHKOV, V.; VALDEN, Yu. Favorable prospects of Soviet-Finnish trade. Vnesh.torg. 30 (MIRA 13:6) no.6:29-31 '60. 1. Predsedatel' Prezidiuma Vaesoyuznoy torgovoy palaty (for Nesterov). 2. Predsedatel' finsko-sovetskoy torgovoy palaty, general'nyy direktor Aktsionernogo obshchestva "Rauma-Repola" for Khonkayuri). 3. Predsedatel Vsesoyuznogo Obayedinen ya "Mashinoeksport" (for Rodmov). 4. General nyy direktor Aktsionernogo obshchestva "Vyartsila-kontsern," chlen pravleniya finskosovetskey palaty (for Val'fors). 5. Predsedatel' Vsescyuznogo Ob"yedineniya "Eksportles" (for Nichkov). 6. Direktorrasporyaditel Aktsionernogo obshchestva Ob yedinennyre bumazhnyye fabriki," chlen pravleniya finsko-sovetskoy torgovoy palaty (for Valden). (Russia--Commerce--Finland) (Finland--Commerce--Russia)



RODHOV, V.I.; MARTYNOV, B.P.; VASIL'YEV, N.V.; NIKOLAYENKO, B.Z.; GUROV, Ye.P.; VOLCHKOV, Ye.P.; MICHKOV, V.N.; MARKELOV, I.A.; GUBANOV, M.V.

What does you association offer for the 43d anniversary of the Great October? Chiefs of all-union associations speak. Vnesh. torg. 30 no.10:28-33 160.

1. Predsedatel' Vsesoyuznogo ob"yedineniya "Mashinoeksport" (for Rodnov). 2. Predsedatel' Vsesoyuznogo ob"yedineniya "Mashonoimport" (for Martynov). 3. Predsedatel' Vsesoyuznoye ob"yedineniye (for Martynov). 3. Predsedatel' Vsesoyuznoye ob"yedineniye ob"dineniya "Tekhnopromimport" (for Gubanov). 5. Ispolnyayushchiy objasannosti predsedatelya Vsesoyuznogo ob"yedineniya "Soyuzpromeksport" (for Nikolayeko). 6. Predsedatel' Vsesoyuznogo ob"yedineniya (for Nikolayeko). 6. Predsedatel' Vsesoyuznogo ob"yedineniya "Soyuznefteeksport" (for Gurov). 7. Predsedatel' Vsesoyuznogo ob"yedineniya "Promsyr'yeimport" (for Volchkov). 8. Predsedatel' Vsesoyuznogo ob"yedineniya "Raznoeksport" (for Markelov). (Russia--Commerce)



# NICHKOVA, G.V.

Work of the Public Bureau of economic analysis at ferrous metallurgy enterprises of the Middle Ural Economic Courcil. Izv. vys. ucheb. zav.; chern. met. 8 no.2:202 165.

(MIRA 18:2)

L 9960-65 ENT(n)/T/ENP(k)/ENP(b) P1-4 ASD(m)-3/ASD(f)-2 JU/ENF/NLK ACCESSION VIR AT4(488(4 B/0000/14/000/000/0331/0835

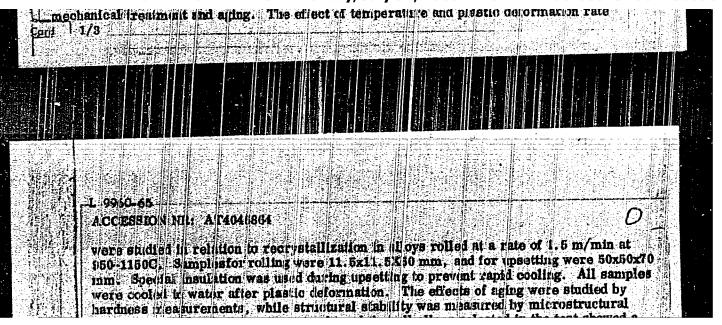
At THOR: Sokolkov, No. 1., Sadovskiy, V.D., Surkov, Yu. P., Chaprakova, N.P., C.

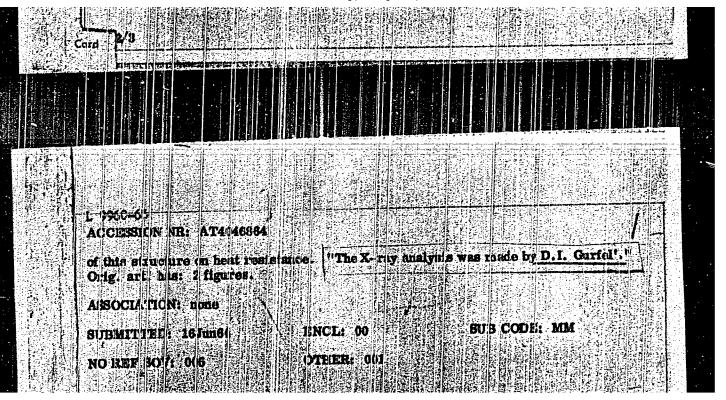
TTTLE: Investigation of the hardening and structural stability of misteritic alloys after high-temperature the more changed treatment.

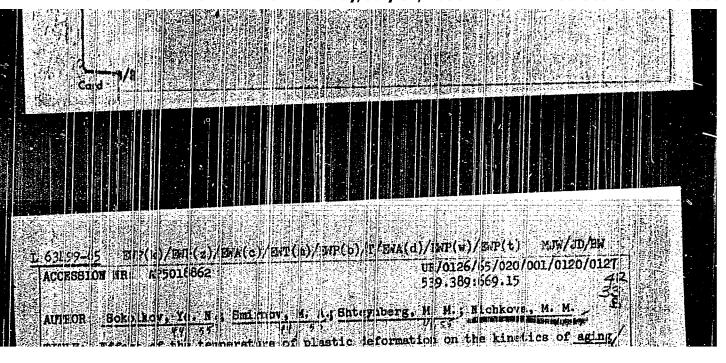
SCHRCE: AN SSSR. Is chay y savet po probleme zharoprochay y splavov. Issledovaniya staley i splavov (Indias on steels and alloys). Moscow, Kal-vo Ranka, 1954, 331-335

TOPIC TAIS: therrigonechanical frontment, alloy hardening, alloy structure, alloy crystallization, misterita, alloy heat resistance, alloy hardness, plastic deformation, alloy steel sustantic steel

ARSTRACE: Improvement of heat resistance by high-ten rerature thermomechanical treatment is based in the creation of a medial structure in the material during bot plastic deformation and its fixation by couling which prevents recrystallization of the present article investigates the features of hardening of thromium-nickel-manganese







of hear-resistint autenitic stie; strengthened by carolde precipitation

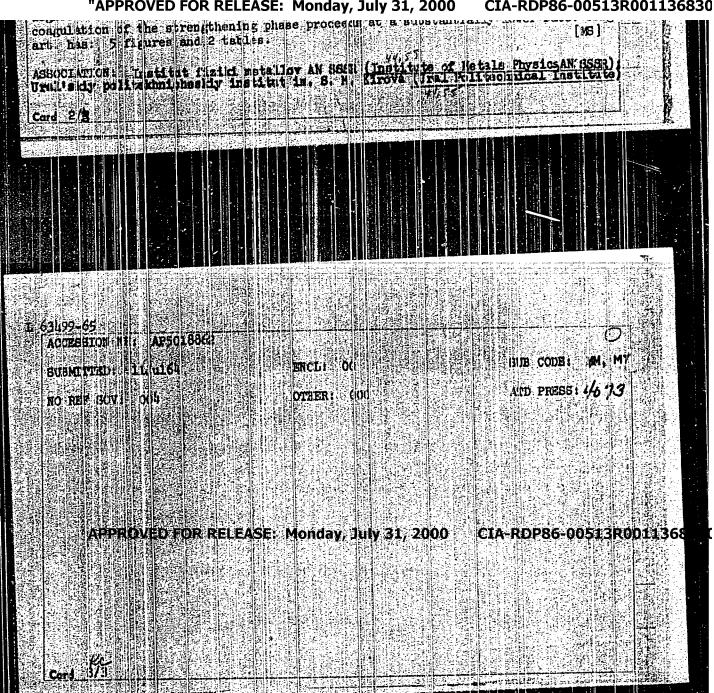
SOURCE: Fisiki metaliov i metallovedeniye, v. 20, no. 1, 1961, 120-127

TOPIC TAM: sciel treatment, the finamechanics it treatment; austenitic chromium steel, nickel containing steel, manufamise containing steel, carbide precipitation strengthened stiel /EII/81 steel

ARSTRICT: The affect of the emperature of plastic deformation on the kinetics of acting of heid-resisiant sustdinitic in 1831 steel [0.36%]; 12.4% Cr, 7.5% Ni. 8.0% Mni acting of heid-resisiant sustdinitic in 1831 steel [0.36%]; 12.4% Cr, 7.5% Ni. 8.0% Mni acting of heid-resisiant sustdinitic in 1831 steel [0.36%]; 12.4% Cr, 7.5% Ni. 8.0% Mni acting of heid-resisiant sustdinitic in 1831 steel value of the ste

ACCESSION MR. M-501(862)

lower the de printing temperature, the more intense the austenite decomposition, a color of the austenite in the strengthening as compared with 11 in conventionally quenched metal. On cooling from the austeniting temperature (1,100) to 1100—7000, a partial decomposition of the solid solution occurred. In specimens quenched from these temperatures without desolid solution occurred. In specimens quenched from these temperatures without desolid solution occurred. In specimens quenched from these temperatures without desolid solution occurred. In specimens quenched from these temperatures without desolid solution occurred. In specimens quenched from these temperatures without desolid solution occurred. In specimens quenched from these temperatures without desolid very objective produced noticeable was observed. Plastic deformation at 200 and at 1100—1000 produced noticeable attengiheding only by aging at 5500. With increasing aging temperature (700—8000) attenging only by aging at 5500. With increasing aging temperature (700—8000) attenging only by aging at 5500. With increasing aging temperature (700—8000) attenging only by aging at 5500. With increasing aging temperature (700—8000) attenging only by aging at temperature (700—8000) attenging the strengthened by carbide precipitation, no that in steels such as Elion, which are strengthened by carbide precipitated, a higher steel such as significant of the precipitated mirbide phase. (In the contrary, in an intensiva designation of the precipitated mirbide phase. (In the contrary, in an intensiva designation of the precipitated mirbide phase. (In the contrary, in an intensiva designation of the precipitated mirbide phase. (In the contrary, in an intensiva designation of the precipitated mirbide phase.)



PUSHIN, G.A.; NICHKOVA, Z.S.

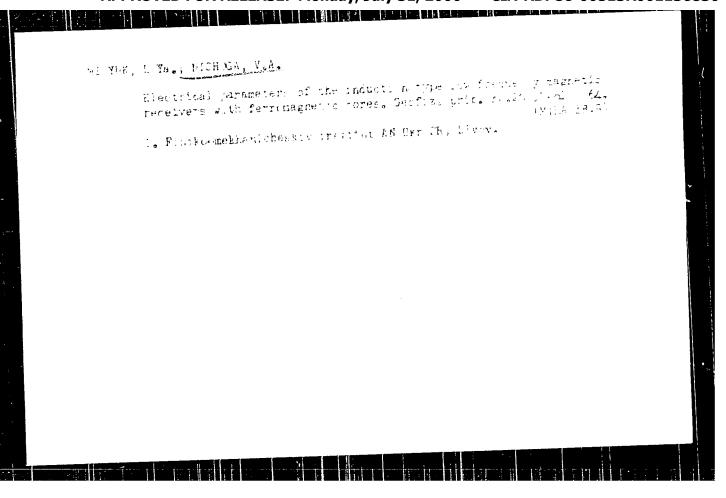
Organization of radical care for industrial workers by an open system in Sverdlovsk. Zdrav. Ros. Fed. 3 no. 10:22-26 0 159.

1. Iz Sverdlovskogo gorzdravotdela (zav. - kand. med. nauk Ye. I. Milyutina). (SVERDLOVSK-MEDICAL CARE)

AUTHOR:	ATEO33313 Gronskiy, Ya. I.	L'vov); Nichoga,	L. A. (L'vov);	Oleg, V. I. (L	' <b>vov</b> )	
1	Comprehensive appar			dokhadki	(Principles	
SOURCE: of appl	: AN Ukresn. Vopros lied acoustics and v PAGS: acoustic equi	y prikladnoy aku ibration technol. pment, pulse gen	ogy), Kiev, Nauk erator, sound tr	ova dunka, 1966 ansmission, acc	, 91-94 oustic signal,	
electro ABSTRAC	oacoustics CT: The authors des aimed at producing	cribe transmitti the electrohydra	ng-receiving appulic effect (Fig	aratus for large. 1). The appoint	e pulseu cur	
Fig. 1. discharmatic (	. Diagram of accust rge unit, 2 - trigg control unit, 4 - h zation block, 6 - 5	tic pulse generatering pulse generation of the g	cor. 1 Charge- rator, 3 - auto- ifier, t - syn- utput.		Ay Ay Box 6	
ates ousing pacito	on a principle simil the synchronized ch ors. Pulses of seve	ar to that of th arging and disch ral microseconds	e hydraulic ram, arging of ca- , at voltages up	ed	d E	; 
Card	1/2			1		

CIA-RDP86-00513R001136830

to 30 kv and at energies up to 1.3 $\times$ 10 <sup>3</sup> J, are generated. The control circuit triggering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors and production of the samples also starts and gering the discharge of the capacitors							,
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CIA-RDP86-00513R001136830

I, 09285-67

ACC NR: AT6020479

(A) SOURCE CODE: UR/0000/65/000/000/0101/0110

AUTHOR: Mizyuk, L. Ya. (L'vov); Nichoga, V. A. (L'vov)

ORG: none

TITLE: Evaluation of the efficiency of low frequency magnetic induction receivers

SOURCE: AN UkrSSR. Teoriya i elementy sistem otbora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova dumka, 1965, 101-110

TOPIC TAGS: circuit design, electric measuring instrument

ABSTRACT: The authors discuss problems in designing low frequency magnetic induction receivers. Losses due to the ferromagnetic core of the coils may be calculated from the known magnetic permeability of the ferromagnetic core. Two cases are considered: in the first, the receiver has a passive coil, i. e., its geometry and the position of the core within the frame as well as its internal magnetic field are neglected. In the second case, these factors are taken into account. It is shown nathematically that the expected efficiency of the passive coil exceeds by many times the value obtained experimentally. On the other hand, the theoretical efficiency of the active coil is nearly that obtained experimentally. Orig. art. has: 26 formulas, 1 figure, l table.

SUB CODE: 09/

10Nov65/ SUBM DATE:

005 ORIG REF:

CIA-RDP86-00513R001136830

L 30356-66

ACC NR: AT6008318

GOURCE CODE: UR/0000/65/000/000/0104/0110

AUTHOR: Nichoga, V.A. (L'vov)

ORG: none

TITLE: The optimum form of bar cores of induction magnetoreceivers

SOURCE: AN UkrSSR, Elementy sistem othera i peredachi informatsii (Elements of systems

for selecting and transferring information). Kiev, Naukova dumka, 1965, 104-110

TOPIC TAGS: magnetic detection, magnetic core

ABSTRACT: In the design of nightly efficient induction magnetoreceivers it is important to assure the achievement of optimum characteristics. This is particularly important for electrical geophysical exploration utilizing low (20 cps to 20 kc) frequencies requiring the maximum possible reduction in size of the necessary equipment. The present article discusses the choice of the optimum shape of the induction magnetoreceiver core, i.e., the shape for which the relative length of the core secures the largest magnetoreceiver constant. The results of the theoretical study are summarized in two graphs, one of which gives the optimum relative length as a function of the magnetic properties of the magnetic material (up to  $\mu/\mu_0=10^4$ ). Orig. art. has: 12 formulas and 3 figures.

SUB CODE: 09 / SUBM DATE: 06Nov65 / ORIG REF: 008 /

Card 1/1

^CC NR: AT6003003

(N)

SOURCE CODE: UR/3175/65/000/025/0040/0044

AUTHOR: Nichoga, V. A.

50 B+1

ORG: FMI AN UkrSSR

TITLE: Determination of critical relative length of cylindrical ferromagnetic cores

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye byuro. Georizicheskaya apparatura, no. 25, 1965, 40-44

TOPIC TAGS: magnetic core, magnetic permeability, asymptotic property, demagnetization, ferromagnetic structure

ABSTRACT: A method for determining the critical ratio of length to diameter, (i.e. relative length) of cylindrical ferromagnetic cores, is discussed with respect to the design of low frequency magnetic receivers. The critical relative length is that length at which the specific permeability of the core reaches an asymptotic value. This value is always smaller than the chosen value of relative length. It is shown that the critical value can be determined from a formula for the demagnetization coefficient (which is relative-length dependent) and from the value of

Card-1/2

CIA-RDP86-00513R001136830

ACC NR: AT6003003

material permeability. The method uses the asymptotic values of specific permeability and leads to an expression for the critical relative length. Because the resulting equations are in transcendental form, a graphic method of solution must be employed. For material permeability less than 10<sup>4</sup>, an approximation formula has been derived to replace the graphic method. Orig. art. has: 3 figures, 5 formulas.

SUB CODE: 09/ SUBM DATE: 00/ ORIG REF: 004/ OTH NEF: 002

## CIA-RDP86-00513R001136830

8+1

ACC NR: AT6003005 (A,N) SOURCE CODE: UR/3175/65/000/025/0079/0098

AUTHOR: Mizyuk, L. Ya.; Nichoga, V. A.

ORG: FMI AN UKrSSR

TITLE: Calculation of demagnetization coefficients of hollow cylindrical cores

SCURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye

byuro. Geofizicheskaya apparatura, no. 25, 1965, 79-98

TOPIC TAGS: magnetic core, ferromagnetic structure, demagnetization, magnetic permeability

ABSTRACT: Replacement of solid cylindrical cores by equivalent hollow cylindrical cores leads to reduction of core weight. This is especially important in low-frequency instruments using large coils. This paper explains in detail how to calculate demagnetization coefficients of such cores. Analytic equations used for solid core design are modified to account for cavity effects. Curves based on these equations are graphed to show the relationship between various design parameters. Several examples are considered where the use of these parameters is made and the

Card 1/2

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ACC NR: AT6003C05

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computed results are tabulated. In the case where magnetic permeability of the material approaches infinity, the demagnetization coefficient is a function of only cavity size and the relative length of the cylinder. Orig. art. has: 4 figures, 1 table, 59 formulas.

SUB CODE:09,201 SUBM DATE: 00/ ORIG REF: 009/ OTH REF: 000

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Card 2/2

L 252 0-65 ENT(m)/EPP(6)/EWP(3)/T/ENA(c) Po-4/19-4 RIC JN/IN

ACCESSION NR: AP5001487

S/00\$5/64/000/012/0024/0027

327

AUTEOR: Yakushkin, M. I.; Nichug wakaya, K. M.

TULE: Synthesis of the higher molecular weight secondary N-bentyl-n-alkyla-

mines ) SOURCE: Khimiya i tekhnologiya topliv i masel, nd. 12, 1934, 24-27

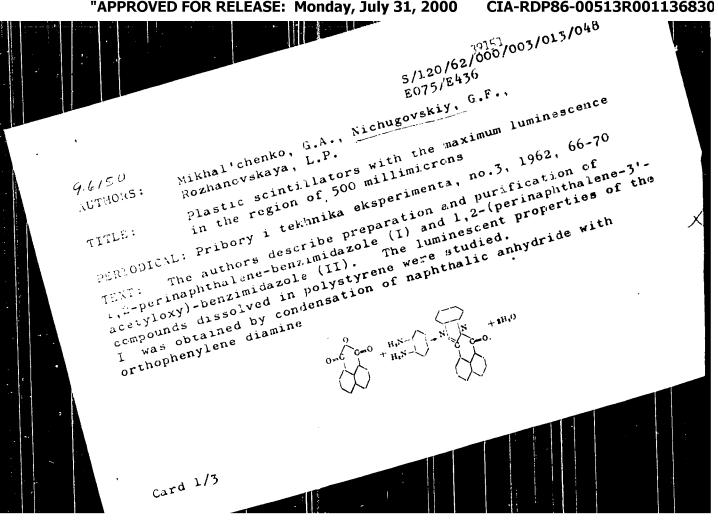
TOPIC TAGS: benzylalkylamine, organic synthesia, hydrogenation, Shiff's base, high molecular weight amine

ABSTRACT: Recently N-bensylall plamines have been used as highly effective extragents of uranium from sulfuric acid solutions by producing quaternary ammonium bases. They can be used in the petroleum fuels and lubricants. Consequently it is important to find efficient methods for their synthesis. The investigation was directed at synthesis of higher N-benzylalkylamines by hydrogenation of was directed at synthesis of higher N-benzylalkylamines by hydrogenation of Shifts bases and selection of optimizam conditions to carry out these reactions. As Shifts bases and selection of optimizam conditions to carry out these reactions. As starting materials use was made of benzaldehyder, 1-octylamine, n-decylamine starting materials. The secondary amines were obtained in two stages:

Card 1/2

1. 25270-65 ACCESSION NR: AP5001487	
经过的股份证据的 人名英格兰人姓氏格兰的变体 医动物 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	ensation of benzaldehyde with aliphatic amines  I-N = CH - C6Ef5 + H2D and  I's bases to corresponding N-benzylalkyla-
mines II - N = CH = C <sub>6</sub> H <sub>5</sub> + H <sub>2</sub>	R-NH Cli2 - C6H5
	atalyst 5-10% of the weight of amine, molar ind n-heptane ar solvent. Orig art has:
Tiromyshlennisti (All-Union Scienti	o-issledovatel skly institut neftekhimicheskoy ic Research institute of the Petrochemical
Industry SUBMETTED: 00	NCL:00 STE CODE: CC, GC
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136830



S/120/62/000/003/013/048 E075/E436

Plastic scintillators ...

II was obtained by the reaction

It was shown that the relative luminescent yield increased with the initial concentration of the compounds up to 1.0 x  $10^{-2}$  to 1.5 x  $10^{-2}$  g per lg of polystyrene. Maximum luminescence corresponded to the wavelength  $\lambda_{\rm max} = 495$  mm. When the concentration of I changed from 0.91 x  $10^{-4}$  to 2.3 x  $10^{-2}$  per g of polystyrene, the maximum shifted from 490 to 505 mm. Card 2/3

Plastic scintillators ...

S/120/62/000/003/013/048 E075/E436

The presence of para-terphenyl in the solution (2% weight) increased the internal yield of luminescence by 2.8 times, whilst not changing the position of the maximum. The maximum luminescence given by the compounds corresponds well to the region of maximum eye sensitivity (507 mm) under conditions of poor illumination. The compounds studied can be utilized for the visual recording of ionizing irradiations. There are 4 figures and 1 table.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut

(Leningrad Technological Institute)

SUBMITTED: October 20, 1961

Card 3/3

BR

ACCESSION NR: AP4020058

\$/0186/64/006/001/0104/0107

AUTHOR: Shvedov, V. P.; Nichugovskiy, G. F.

TITLE: Separation of alkali elements by the electrophoresis method. I. Separation of rubidium and cesium ions with ammonium paratungstate

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SOURCE: Radiokhimiya, v. 6, no. 1, 1964, 104-107

TOPIC TAGS: rubidium, cesium, separation, electrophoresis, electrophoretic cell, ion mobility, ammonium paratungstate, alkali element separation

ABSTRACT: The construction of an electrophoretic cell with quartz sand as the porous filler is described (fig. 1). In this apparatus the apparent degree of mobility of ions can be determined within 5%. Solutions of ammonium paratungstate which was prepared by dissolving stoichiometric amounts of tungstic acid with ammonia can be used for separation of Rb and Cs ions by the electrophoretic method. Optimum paratungstate concentration is in the  $1 \times 10^{-3}$  to  $5 \times 10^{-3}$ M range (based on weight). In the example Rb and Cs were separated with  $3.5 \times 10^{-3}$ M

Card 1/3

#### ACCESSION NR:AP4020058

10-3 M ammonium tungstate in 18 minutes with a gradient potential of 19 v./cm. Strong electrolytes may be added to the ammonium paratungstate solution to increase the mobility of the Rb and Cs ions. This increase in mobility effect increases in the following series of monovalent ions: Li, Na, NH<sub>4</sub>, K, Rb, Cs, H. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 10Jul63

DAT'E ACQ: 31Mar64

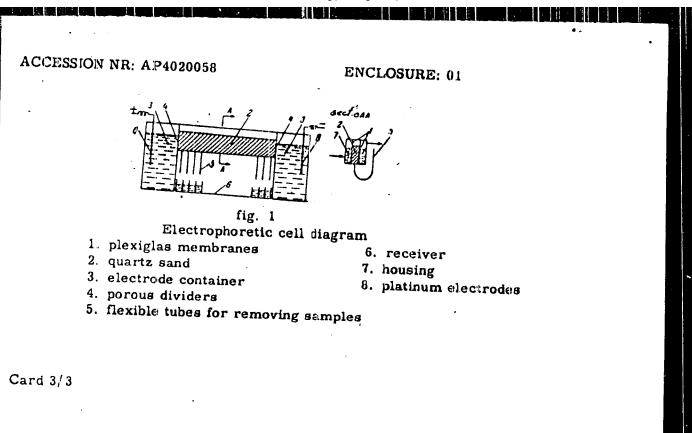
ENCL: 01

SUB CODE: GC

NO REF SOV: 002

OTHER: 008

Card 2/3



3/0186/64/006/001/0107/0110

ACCESSION NR: AP4020059

AUTHOR: Shvedov, V. P.; Nichugovskiy, G. F.

TIPLE: Separation of alkali elements by the method of electrophoresis. 2. Separation of rubidium and cesium ions in solutions of potassium ferrocyanide

SOURCE: Radioldimiya, v. 6, no. 1, 1964, 107-110

TOPIC TAGS: electrophoresis, cesium, rubidium, ion, separation, alkali elements, cesium rubidium separation, ion mobility, potassium ferrocyanide, ferrocyanic acid anion

ABSTRACT: The dependence of the mobility of Rb and Cs ions on the equilibrium concentration of ferrocyanic acid anions in potassium ferrocyanide solutions was investigated (see Enclosure). The conditions for separating Rb and Cs improve with an increase in ferrocyanide concentration. The dissimilar stability of the associated ions formed leads to different mobilities. Cs and Rb ions in a solution of 0.034 M KAFEN6 + 0.052 M KNO3 were completely separated in 50 minutes with a gradient

Card 1/5 V

ACCESSION NEL: AP4020059

potential of 8.5 y/cm. The hypothesis is presented that the basic reasons for the weakening of the association of the Rb and Cs ions is the dissimilar degree of the association of these ions with those of ferrocyanic acid. Orig. art. has: 2 figures and 3 equations.

ASSOCIATION: None

SURMITTED: 10Jul63

DATE ACQ: 31Mar64

ENCL: O1

SUB CODE: CH

MO REF 80V: 007

OBER: (X)3

Card 2/3

SHVELOV, V.P.; NICHUGOVSKIY, G.F.

Cell for measuring the mobility of ions by the application of radioactive indicators. Thur. Fiz. khim. 39 no.2:1030-1032 Ap \*65.

(MibA 19:)

1. Leningradskiy tekhnologicheskiy institut. Submitted Jan. 1, 1962.

187500

1145, 1418

S/145/61/000/003/003/006

D205/D304

AUTHOR:

Nichushkin, V.V., Aspirant

TITLE:

Installation for testing the fusion of metals and

alloys in vacuum

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, mashinostroyeniye, no. 3, 1961, 58 - 63

TEXT: Metal fusion is an essential property for many technological processes, for instance, in the manufacture of bimetals by cold diffusion or by ultrasonic welding. Fusion depends on the following factors: temperature; contact pressure; surface states of the interacting metals; time of interaction; duration, amplitude and frequency of ultrasonic vibrations (if applied). The influence of these on the process can be studied experimentally by means of the described apparatus designed to ensure the following: 1) Regulation of pressure vector on the specimen in contact; 2) Creation

Card 1/5

Installation for testing ...

**S/**145/61/000/003/003/006 D205/D304

of vacuum; 3) Control of temperature on the contacting surfaces; 4) Application of ultrasonic vibrations. Construction of the installation is explained with reference to Fig. 2. The working chamber is enclosed by hood 1 and a plate resting on a horizontal table and fitted with a vacuum rubber for sealing. The hood can be raised or lowered on guides 2 by means of screw 3 and handle 4. A vacuum is obtained with the aid of pump type RVN of 200 1/min capacity and a second stage pump type TsVL-100S of 100 1/sec capacity. Vacuum of 1 · 10 mm Hg can be reached and is measured by valve 5 type LT-2 down to 10-3 mm Hg and by an electro-magnetic manometer 6, type MM-5. Normal loads are applied by means of weights 7 and 8 and the tangential ones by screw 13 and rod 14. Bellows 15, 16, 17 and 20 serve as seals. For measuring loads two precision dynamometers type DS-0.2 for loads up to 200 kg, and type DK-5 for loads up to 3000 kg are used. Ultrasonic vibrations can be applied to the specimen from vibrator 19 through concentrator 18, the geometry (length and radius) of which is chosen experimentally. A 10 kW ul-

Card 2/5

**S/145/61/000/003/003/003 D205/D304** 

Installation for testing ...

trasonic generator UZG-10 is used. Screws 21, 22 and handles 23, 24 enable the concentrator to be manipulated and the amplitude of vibrations is measured with the help of Green's binocular microssope and window 25. The lower specimen is mounted on slider 27 on table 26. 28 is an electric heater and 30 is a movable thromelalumed thermocouple. Specimens can be flat, 10 mm thick or cylindrical 15 mm in diameter and 15 to 20 mm long or cylindrical with a spherical end for point contacts. Before testing, specimens are polished, washed in gasolene and then in a water solution of soda and sodium nitrate (15 % Na<sub>2</sub>CO<sub>3</sub>, 5 % Na NO<sub>2</sub>) at 30-40°C. When a vacuum is generated, the specimens are heated to and held at a temperature according to Table No. 1 given by M.G. Lozinskiy (Ref. 10: Vysokotemperaturnaya metallografiya (High Temperature Metallography) M. 1956). This further cleans and normalizes the surfaces. The specimens are then cooled to the test temperature and brought into contact ready for testing. For application of ultrasonic vibrations, both specimens are mounted on table 1 and concentrator 7

Card 3/5

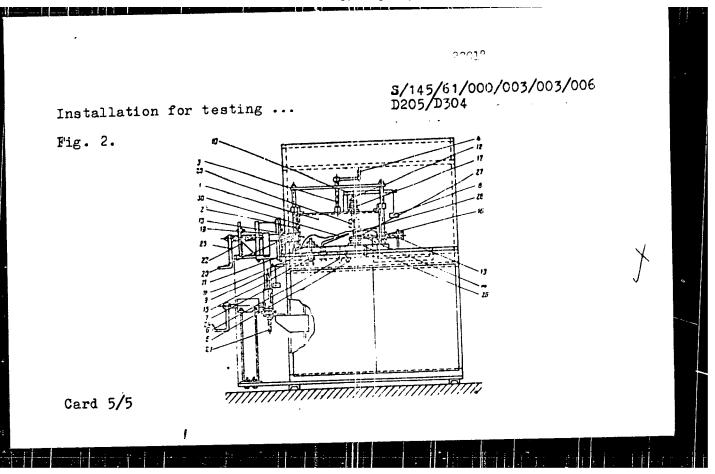
s/145/61/000/103/003/006 D205/D304

Installation for testing ...

is applied to the upper specimen. Pressure is then exerted by load 8, By means of the described apparatus the influence of normal and tangential forces and temperature on the processes of ission can be studied in various combinations. There are 3 figures and 13 references: 12 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: A.E. Roach, Storing Characteristics of Bearing Materials, Product Engineering, 1954, vol. 25, November, No. 11, p. 171 - 175.

ASSOCIATION; LVTU im. N.E. Baumana (Moscow Technological College (MVTU) im. N.E. Bauman)

March 11, 1960 SUBMITTED:



AUTHOR: Chernyavekaya, S. G.; Velichkin, J.; Kachaylova, O. A.; Kedrin, I. D.;
Nichushkin, V. V.; Ushchenko, V. G.

TITIE: Use of gudio frequency vibrations for aging aluminum alleys

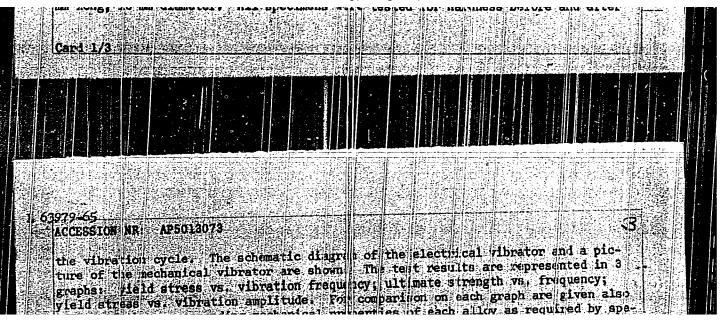
SOURCE: ZVUZ. [sweimaya metallungiya, no. 1, 1965; 132-135]

TOPIC TASS: mechanical testing, fatigue festing, aluminum alley

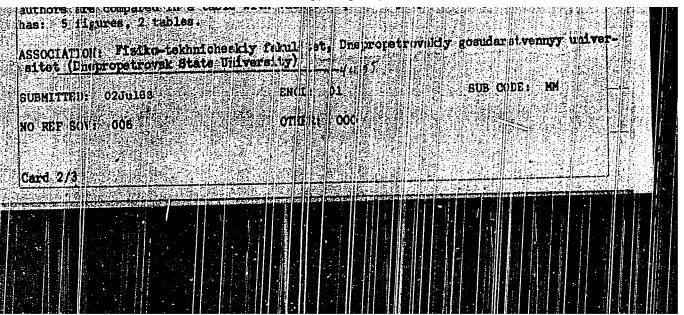
ABSTRACT: The effect of audio frequency vibrations on aging of aluminum alloys was studied. The regults indicate that this method may be used to determine the melehanical properties of alloys in close agreement with data obtained in industry. A

considerably shorter time is required than when using presently accepted methods.

The tests were made on a luminum alloys (see table 1 of the Enclosure). The samples were heat-treated in salt baths, quelched in water and immediately placed.



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136830



ACC NR: AP7001206 (N) SOURCE CODE: UR/0407/65/000/05-/0154/0159

AUTHOR: Kazakov, N. F. (Moscow); Nichushkin, V. V. (Moscow)

ORG: none

TITLE: Determination of the conditions of vacuum-diffusion bonding of VTI-1 titanium

SOURCE: Elektronnaya obrabotka materialov, no. 5-6, 1965, 154-159

TOPIC TAGS: titanium, vacuum diffusion , titanium diffusion bonding, diffusion bonding condition, bonded joint strength/VTI titanium

ABSTRACT: Specimens of VT1-1 commercial-grade titanium were diffusion bonded in a vacuum of  $10^{-1}-10^{-4}$  tor at a temperature of 650-1000C under a specific pressure of 0.1-1.5 kg/mm² with a holding time of 1-25 min and cooled to 100-400C in vacuum. The results of tension tests showed that the joints bonded in a vacuum of  $10^{-3}$  tor in the 750-950C range under a specific pressure of 0.2-0.85 kg/mm² have a tensile strength of 55-57 kg/mm², equal to that of the base metal annealed at the respective bonding temperature. The maximum tensile strength (60 kg/mm²) was achieved with bonding in a vacuum of  $10^{-3}$  tor at 800C under a specific pressure of 0.7 kg/mm², a holding time of 8-10 min, and cooling to 200C in vacuum. The strength of the joint is determined mainly by the specific pressure and temperature of the bonding process. Generally, the specific pressure is 60-70% of the yield strength at the

Card 1/2

bonding temperature. The diffusion-bonded VTI-1 parts tested to destruction failed in the base metal. Orig. art. has: 8 figures.									
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GAWRONSKI, J.; KARCH, Z.; LANG, I.; NICIECKI, Fr.; KRZEKOTOWSKI, L.

Grinding drawn sheet glass in the Kunice Glassworks. Szklo
13 no.4:97-107 Ap '62.

"Roadside improvement."

p. 53 (Put I Saobracaj) No. 4, Apr. 1957
Belgrade, Yugoslavia

So: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

YUGOSLAVIA

Dr A. NICK [Affiliation not given]

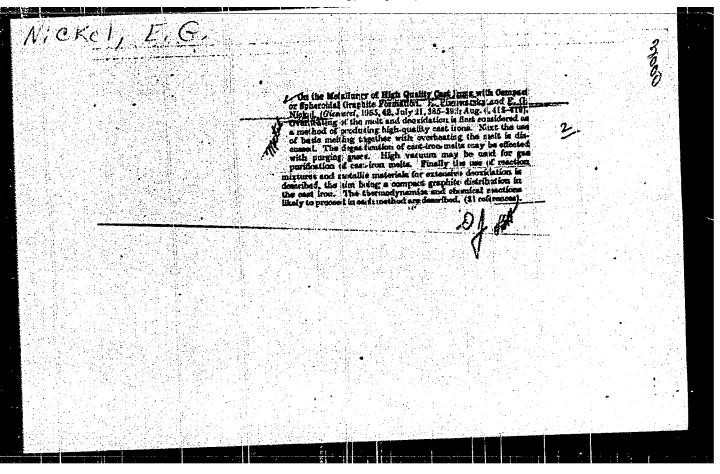
"Dr Josip Hedved."

Zagreb, Lijecnicki Vjesnik, Vol 85, No 3, 1963; pp 367-368.

Abstract: Necrology and brief biographical sketch of this physician and dentist, former Head of the City Department of Public Health of Zagreb, who died in 1962 at age 73. Photograph.

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23



NICKLAS, A.

Stock, A., Wiberg, E., Marini, H. and Micklas, A.

Boron hydrides. KVII. Electrolysis of solutions of boron hydrides in liquid ammonia.

Ber. Vol. 668, 1932, pp. 1711-24

Chem. Abs., Vol. 27, p. 911

Bolk is dibasic and Bhillo tetrabasic in liquid HHz. During electrolysis aminization takes place first with evolution of H2. The anion radicals of the intermediate salts then react with NHz, retrieving the NH2 deriv. of the hydride with an accompanying evolution of N2. Analysis of the residue after electrolysis shows that 2 H atoms are replaced by NHz in B2H6, from h to 6 in Bhillo. The same 2 reactions take place with E10Hillo. The sminization is fast and almost complete, 12 or more H atoms being replaced by NHz.

USSR/Chemistry - Cyanides, Determination of At Chemistry - Analysis	ug 48	
"Determination of Small Concentrations of Cyant in the Presence of Inhibiting Substances," Ya Yu. Lur'ye, Z. V. Nikolayeva, Inst Vodgeo, 8 pp	•	
"Zavod Lab" Vol XIV, No 8		
Existing methods of analysis cannot be applied to determine cyanides in dilute solutions containing simple and complex cyanides, thicoranides, sulfides, organic compounds, etc. Authors describe their own method.		
FDB 3/49T21		

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Vol. 4, No. 2/5, Num./Dept. 1976.
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# NICMAN, Zdzisław Cil-hydraulic plastic presses. Mechanik 35 no.5:310 My '62.

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USSR/Farm Animals - Large Horned Cattle.

Abs Jour : Rei Thur - Biol., No 18, 1958, 83335

Author : Dzelec, J., Lusnevske, O., Niemine, A., Zalitie, i.,

.miscenko, A., Stabina, C.

Inst : Latvian Academy of Agriculture.

Title : Effects of Corn Silage upon the State of Health of Miles

Cows.

Orig Pub : Tr. Latv. s.-kh. akad., 1957, vyp. 6, 267-272.

Abstract : Disturbances of the organism's physiological function.

were found to exist in cows which were fed increased amounts of corn silege (40-50 kg). These disturbances were expressed in changes of alkalinity reserves and ap-

pearance of acetone in the urine of the cows.

Card 1/1

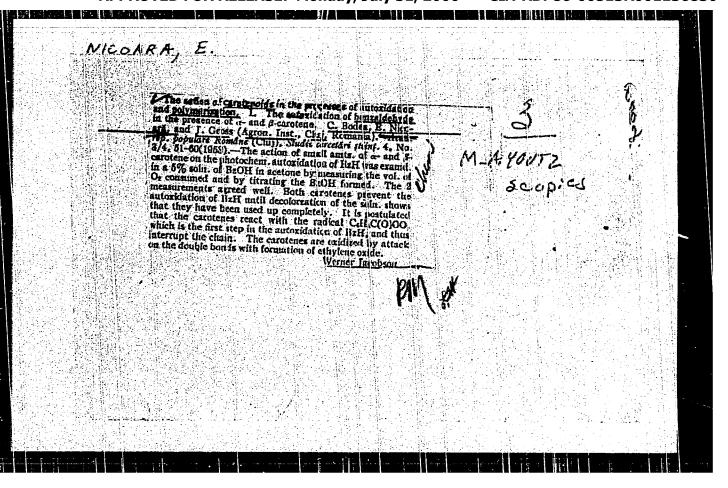
FODGR, C., prof.; FARBARINO, Fedora, dr.; GEGRGASST, R., dr.; NICGAEA, A., dr.; rds, 1., dr.

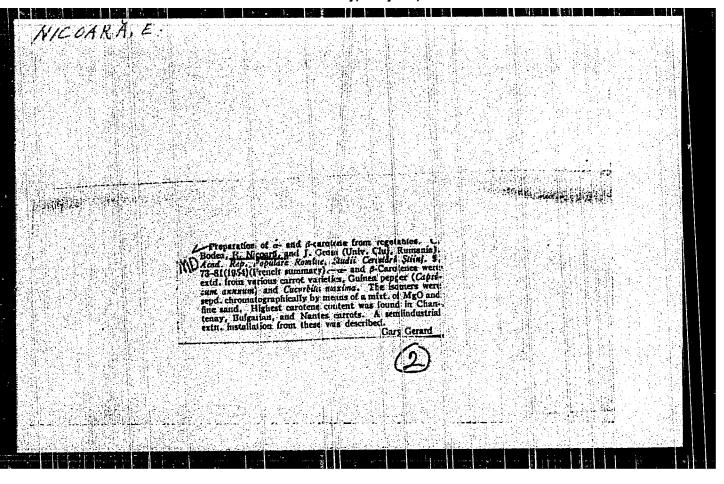
critical apparaisal of the value of the methods of liver function test using BBP. Studies of BSP in serum, bile, urine and of the separate chromatographic fractions. Med. intern. (Bucur) 17 no.4: 309-412 Ar 165.

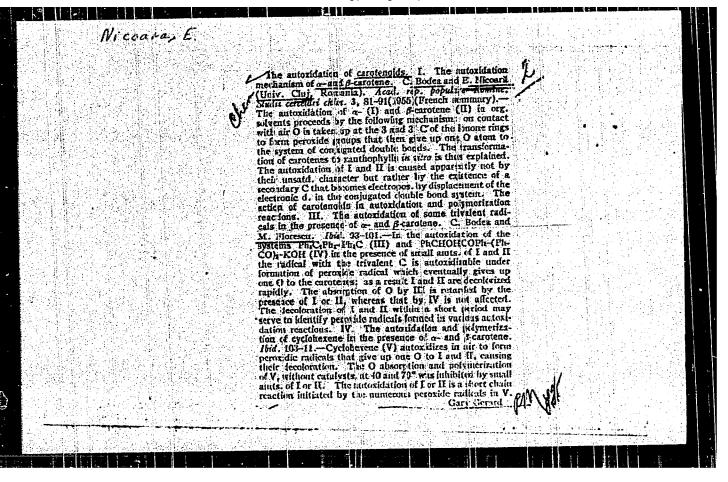
1. Tuberare efectuata in Clinica a lil-a nedicala, Institutul medico-farmaceutic, Cla. (director: prof. C. Fodor).

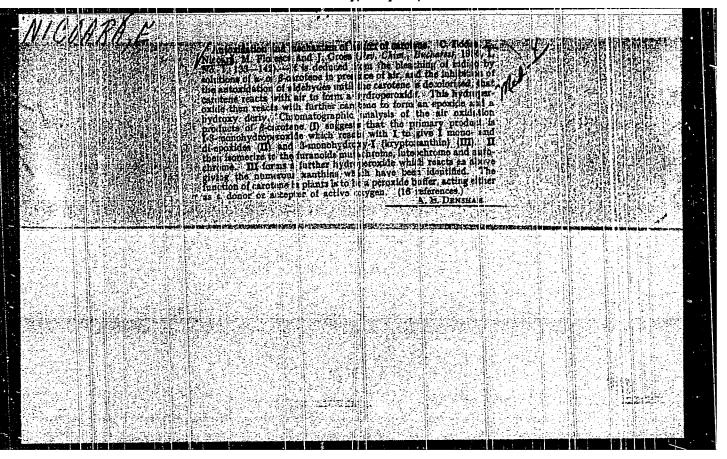
"APPROVED FOR RELEASE: Monday, July 31, 2000 CI

CIA-RDP86-00513R001136830









BODEA, C.: NICOARA, E.

Chlorination of  $\beta$  -carotin. Studii cerc chimie Cluj 10 no.2:347-352 \*59. (EEAI 9:9)

1. Academia R.P.R. - Filiala Cluj, Institutul de chimie si Institutul agronomid "Dr. P.Groza" - Cluj, Catedra de chimie si fizica.

(Carotene) (Chlorination) (Carbon disolfide)

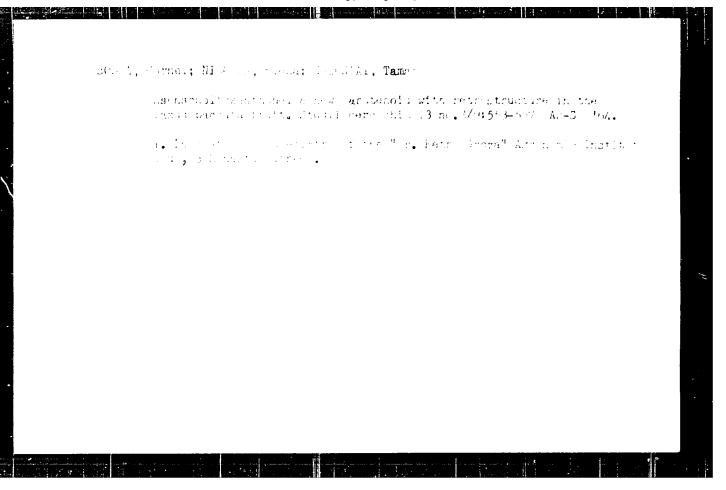
BODEA, C.; NICOARA, E.

Partial syntheses of the carotenoids with the application of lead tetracetate. Rev chimie 7 no. 1: 79-84 '62.

1. Biochemisches Laboratorium der Landwirtschaftlichen Hochschule, Cluj.

Eschacholizantione a new correction with retroctructure for a the Taxus because fruits. Now of amore from 19 no.070:17-521 Ag-S '04.

1. Leboratory of Decisory, Continue of the tare, Ruft.



NICOARA, Eugen, laureat al Premiului de Stat

A method of calculating the stability of poles rigidly fixed at one end and with some elastic support at the other. Constr mas 16 no.10:548-551 0 '64.

# L 31738-66 SOURCE CODE: RU/0007/65/016/03-/0197/0209 ACC NR: AF6021171 10 B AUTHOR: Nicoara, E. (Engineer) 1. 16 ORG: none TITLE: 53-meter 'A'-type mast SOURCE: Petrol si gaze, v. 16, no. 3-4, 1965, 197-209 TOPIC TAGS: well drilling machinery, petroleum industry equipment A discussion of A-shaped . revolving masts for offshore ABSTRACT: depth drilling. The author briefly describes such masts in use in other countries as well as the Rumanian equipment with which the masts would be used in Rumania and analyzes the design, operation, yield and safety of some variants of 53-meter A-shaped rotating masts. Orig. art. has: 12 figures and 4 tables. [JPRS] SUB CCDE: 13 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 001

Card 1/1 4 8

L 61350-65 EWP(W) EM

ACCESSION NR: AP5023498

RU/0018/64/000/010/0548/0551

AUTHOR: Nicoara, Euger (State prize witner)

TITLE: Nethod of calculating the stability of poles rigidly fixed at one end and

with any type of elastic support at the other SOURCE: Constructia de masini, no. 10, 1964, 548-551

TOPIC TAIS: mechanical engineering structure stability

ABSTRACT [Author's English summary modified]: The author describes a method which uses a characteristic equation in conjunction with a table of constants for various values of the angle of inclination for the calculation of the stability of poles that are fixed at one end and supported elastically at the other end. The simplicity and accuracy of the method allow the calculation of several possible variations in order to select the optimal solution.

Autoimmune manifestations in chronic hepatitis. Med. intern., Bucur 12 no.7:1045-1051 Jl '60.

1. Clinica a III-a medicala, I.M.F. Cluj.
(HEPATITIS, complications)
(HAMUNOLOGY)

(ANEMIA, etiology)

FODOR, O., conf.; STANESCU, L., dr.; BARBARINO, F., dr.; SCWARTZ, M., dr.; NICOARA, Gh., dr.; BAN, A., dr.;

Observations on splenic sarcomas. Med. interm. 13 no.11:1549-1553 N '61.

1. Lucrare efectuata in Clinica a III-a medicala I.M.F., Cluj.

(SPLEEN neoplasms) (SARCOMA)

PARAU, N., dr.; NICOARA, Gh., dr.; FODOR, O., prof.

Value and significance of certain tests used in the diagnosis of autoimmune diseases of the blood. Clinical and serological correlations. Med. intern. 13 no.12:1679-1690 D '61.

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(BLOOD DISEASES diagnosis) (LEUKOPENIA diagnosis)
(THROMBOPENIA diagnosis) (IMMUNITY)

PARAU, N., dr.; NICOARA, Gh., dr.; FODOR, O., prof.

Critical appraisal of some immunological tests in chronic evolutive polyarthritis. Med. intern. 16 no.2:169-178 F\*64.

1. Lucrare efectuata in Clinica a III-a medicala, I.M.F., Cluj.

