The Laminar Convection Over a Linear Heat Source SOV/40-22-4-26/26 The flow equation, the continuity equation and the heat-con- ductivity equation are applied as initial equations. Sup- posing that the velocity profile and the temperature profile of the flow are similar, these equations can be approxi- matively integrated. Finally the author obtains an explicit solution of the problem satisfying all the boundary con- ditions. It has the form of a series. However, its appli- cability is restricted. Firstly one has to count upon errors in the direct neighborhood of the heat source, since real heat sources always have a finite thickness. Secondly it does not appear in this solution that the flow may become tur- bulent from a certain height. There are 5 references, 3 of which are Soviet, and 2 English. SUBMITTED: February 20,1957.	
The flow equation, the continuity equation and the heat-con- ductivity equation are applied as initial equations. Sup- posing that the velocity profile and the temperature profile of the flow are similar, these equations can be approxi- matively integrated. Finally the author obtains an explicit solution of the problem satisfying all the boundary con- ditions. It has the form of a series. However, its appli- cability is restricted. Firstly one has to count upon errors in the direct neighborhood of the heat source, since real heat sources always have a finite thickness. Secondly it does not appear in this solution that the flow may become tur- bulent from a certain height. There are 5 references, 3 of which are Soviet, and 2 English.	
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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548220011-7"

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Salat Selection

17

SEVRUK, I. G.: Master Phys-Math Sci (diss) -- "Some problems in the free thermal convection of a liquid". Kazan', 1959. 10 pp (Min Higher Educ USSR, Kazan' Order of Labor Red Banner State U im V. I. Ul'yanov-Lenin), 150 copies (KL, No 14, 1959, 118)

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;	24(8) AUTHOR:	Sevruk, I.G. SOV/140-59-1-21/25
	TITLE:	Approximate Solution of the Problem of Cooling of a Heated Sphere Which is Immersed Into a Fluid Spherical Layer (Pribliz- hennoye resheniye zadachi ob okhlazhdenii nagretogo shara, pogruzhennogo v sharovoy sloy zhidkosti)
	PERIODICAL:	Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 1, pp 204-211 (USSR)
	ABSTRACT:	The author considers the process of cooling of a heated sphere which is immersed into a spherical layer of fluid, where the fluid in the moment t=0 is resting and has the temperature 0° . Furthermore it is assumed that at the surface of the sphere the temperature 0° is maintained constantly. The author determines the change of temperature of the sphere and of the fluid shell in the approximation of index zero and index one and the velocity of the fluid in the first approximation. Furthermore the heat
	Card 1/2	

Approximate Solution of the Problem of Cooling SOV/140-59-1-21/25 of a Heated Sphere Which is Immersed Into a Fluid Spherical Layer flow through the surface of the sphere is calculated. The author thanks G.A.Ostroumov for giving the problem and S.I.Mel'nik for advices. There are 5 references, 4 of which are Soviet, and 1 German. ASSOCIATION: Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo (Perm' State University imeni A.M.Gor'kiy) SUBMITTED: February 8, 1958

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APPROVED FOR RELEASE: 08/23/2000





SEVRUK, 0., inzh.

New types of vitaminized focd atuffs made of intermediate and waste products of beer brewing. Prom.Arm. 4 no.9:46-48 S '61. (MIRA 14:11)

1. TSentral'naya laboratoriya upravleniya pishchevoy promyshlennosti, Sovnarkhcz Armyanskey SSR.

(Food, Enriched) (Brewing industry--By-products)

APPROVED FOR RELEASE: 08/23/2000



APPROVED FOR RELEASE: 08/23/2000

SEVRUK, R.M.; RADBIL', O.S.

Clinical use of lantozid, a clinical preparation of Digitalis lanata. Sov.med.19 no.10:80-84 0 '55. (MLRA 8:12)

1. Iz kafedry terapii (zav. prof. B. Ye. Votchal) Tsentral'nogo instituta usovershenstvovaniya vrachey i otdela farmakologii (zav.--prof. A.D.Turova) V5esoyuznogo nauchno-issledovatel'skogo instituta lekarstvennykh i aromaticheskikh rasteniy. (DIGITALIS,

lanatosid, ther. use & results)

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CIA-RDP86-00513R001548220011-7

SEVRUK, Sil'vostr Martynovich; BARDASH, A.F., spetsredaktor
Sevenus, Silvostr Martynovich; BARDASH, A.F., spetsredaktor
Swins house for 30 sows, with vaulted roof, made of three-step blocks. Model plan Mo.221] Svinarnik-matochnik na 30 svinomatok se svodchatym pokrytiem iz trekhstupenchatykh blokov. Tipovoi proekt no.21. Kiev, Izdatel'skii otdel, 1955. 12 p. 29 plans. (MIBA 9:10)
1. Okrainskiy gosudarstvennyy institut proyektirovaniya sel'skogo tolkhoznogo stroitel'stva. (Swine houses and equipment)

APPROVED FOR RELEASE: 08/23/2000

SEVENK, Sil'vestr Martynovich; BARDASH, A.F., spetsredaktor
[Fattening barn for 300 swine, with vaulted roof, made of threestep blocks. Model plan No.222] Svinarnik-otkormochnik na 300 golov so svodchatym pokrytiem iz trekhstupenchatykh blokov. Tipovoi proekt No.222. Kiev, Izdatel'skii otdel, 1956. 12 p., 24 plans.
1. Ukrainskiy gosudarstvennyy institut proyektirovaniya sel'skogo i kolkhoznogo stroitel'stva. (Swine houses and equipment)

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SEVRYUGIN, A.

Working out norms for the number of workers in a steel smelting shop. Biul.nauch.inform: trud 1 zar. plata 3 no.12:14-17 140. (MIRA 14:3) (Smelting)

حيام من ملاسد و. .

APPROVED FOR RELEASE: 08/23/2000

 TITLE: Device for the Measurement of the Angle Between the Voltage- and EMF-Vectors of a Synchronous Machine (Ustroystvo dlya izmereniya ugla mezhdu vektorami napryazheniya i e.d.s. sinkhronnoy mashiny) FURIOBICAL: Elektrichestvo, 1958, Nr 7, pp. 65 - 67 (USSR) ABSTRACT: A somewhat more accurate method for the determination of the static and dynamic overload capacity of a synchronous machine by means of the angle-characteristic of the power developed in the case of different modes of operation is described. Construction can be carried out in the completest manner according to the oscillographic recordings of the changes of the actual efficiency and of the angle 9 both in the case of slow and of rapid changes of load. The de- vice for measuring the angle 9 must warrant continuous re- cording. The most promising was the device for measuring the angle 9, which was carried out according to the circuit developed by the Institute of Water Power Engineering AS of the Armerin SOR (Ref 4). This construction, however, entails 	AUTHORS :	SOV/105-58-7 -16/32 Gurgenidze, M. Z., Engineer, Sevryugin, I. K,, Engineer	
ABSTRACT: A somewhat more accurate method for the determination of the static and dynamic overload capacity of a synchronous machine by means of the angle-characteristic of the power developed in the case of different modes of operation is described. Construction can be carried out in the completest manner according to the oscillographic recordings of the changes of the actual efficiency and of the angle Q both in the case of slow and of rapid changes of load. The de- vice for measuring the angle Q must warrant continuous re- cording. The most promising was the device for measuring the angle Q, which was carried out according to the circuit developed by the Institute of Water Power Engineering AS of the	TTULE:	and EMF-Vectors of a Synchronous Machine (Ustroystvo dlya izmereniya ugl a mezhdu vektorami napryazheniya i e.d.s.	
the static and dynamic overload capacity of a synchronous machine by means of the angle-characteristic of the power developed in the case of different modes of operation is described. Construction can be carried out in the completest manner according to the oscillographic recordings of the changes of the actual efficiency and of the angle Q both in the case of slow and of rapid changes of load. The de- vice for measuring the angle Q must warrant continuous re- cording. The most promising was the device for measuring the angle Q, which was carried out according to the circuit developed by the Institute of Water Power Engineering AS of the	ERIODICAL:	Elektrichestvo, 1958, Nr 7, pp. 65 - 67 (USSR)	
	ABSTRACT :	the static and dynamic overload capacity of a synchronous machine by means of the angle-characteristic of the power developed in the case of different modes of operation is described. Construction can be carried out in the completest manner according to the oscillographic recordings of the changes of the actual efficiency and of the angle Q both in the case of slow and of rapid changes of load. The de- vice for measuring the angle Q must warrant continuous re- cording. The most promising was the device for measuring the angle Q, which was carried out according to the circuit	
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Geology of the Semipalatinsk region. Scv. geol. 2 no.8:15-32 Ag '59. (MIRA 13:2)

1.Yuzhno-Kazakhstanskoye geologicheskoye upravleniye. (Semipalatinsk region (Kazakhstan)--Geology))

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SEVERIUGIN, P.M.; GANIN, A.I., starshiy inzh. Success was assured by skillful organization of work. Elek. i tepl. tiaga 5 no.6:3 Je '61. (MIRA 14:10) 1. Nachal'nik Chernikovskoy distantsii kontaktnoy seti Demskogo energouchastak Kuybyshevskoy dorogi (for Sevryugin. 2. Demskiy energouchastok Kuybyshevskoy dorogi (for Ganin). (Electric railraods--Wires and wiring)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548220011-7 SOV/137-57-6-9817 Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 72 (USSR) AUTHORS: Loshkarev, M.A., Sevryugina, M.P. TITLE: On a New Group of Inhibitors of Cathodic Precipitation of Metals (O novoy gruppe ingibitorov katodnogo vydeleniya metallov) Tr. Dnepropetr. khim.-tekhnol. in-ta, 1956, Nr 5, pp 129-134 PERIODICAL: ABSTRACT: Note is taken of the role of surface-active substances in the cathodic precipitation of metals. The new surface-active substances include OP-4, OP-7, OP-10, OS-20, stereox, equalizer A, peregal, igepal, leonil, emulphor, etc. G.S. Card 1/1

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SEVRYUGINA, H.F.; LOSHKAREV, H.A.

Effect of surface active agents on the electrodeposition of copper. Trudy DKHTI no.6:36-50 '58. (MIRA 13:11) (Copper plating) (Surface active agents)

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5/081/62/000/021/005/069 B168/B101

AUTHORS:	Sevryugina, M. P., Gromik, L. I.	68868
TITLE:	Sevryugina, m. 1, string agents as inhibitors of the proc Emulsifying and wetting agents as inhibitors of the proc of electrocrystallization of metals. Report II.	; •
structure of phenolsulfor studied. T electrolyte	Electrocrystallization of the analysis of the second secon	the re f the
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ABLULKABIROVA, M.A.; ALEKSANDROVA, M.I.; AFONICHEV, N.A.; BANDALETOV, S.M.; B.SPALOV, V.F.; BOGDANOV, A.A.; BOROVIKOV, L.I.; BORSUK, B.I.; BORUKAYEV, R.A.; BUVALKIN, A.K.; BYKOVA, M.S.; DVORTSOVA, K.I.; DEMBO, T.M.; ZHUKOV, M.A.; ZVONTSOV, V.S.; IVSHIN, N.K.; KOFYATKEVICH, R.A.; KOSTENKO, N.N.; KUMPAN, A.S.; KUMDYUKOV, K.V.; LAVROV, V.V.; LYAPICHEV, G.F.; MAZURKEVICH, M.V.; MIKHAYLOV, A.Ye.; MIKHAYLOV, N.P.; MYCHNIK, M.B.; NIDLENKO, Ye.N.; NIKITIN, Í.F.; NÍKIFOROVA, K.V.; NIKOLAYEY, N.I.; PUPYSHEV, N.A.; RASKATOV, G.I.; RENGARTEN, P.A.; SAVICHEVA, A.Ye.; SALIN, B.A.; SEVRYUGIN, N.A.; SEMENOV, A.I.; CHERNYAKHOVSKIY, A.G.; CHUYKOVA, V.G.; SHLYGIN, Ye.D.; SHUL'GA, V.M.; EL'GER, E.S.; YAGOVKIN, V.I.; NALIVKIN, D.V., akademik, red.; PERMINOV, S.V., red.; MAKHUSHIN, V.A., tekhn.red.

[Geological structure of central and southern Kazakhstan] Geologicheskoe stroenie TSentral'nogo i Ilzhnogo Kazakhstana. Leningrad, Otdel nauchno-tekn.informatsii, 1961. 496 p. (Leningrad. Vsesoiuznyi geologicheskii institut.Materialy, no.41) (MIRA_14:7)

(Kazakhstan--Geology)

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SE	W RYI	(]	GOVA, N.N.
	USSR/Nucle	ar	Physics - Installations and Instruments. C-2 Methods of Measurement and Research.
	Abs Jour	:	Ref Zhur - Fizika, No 4, 1957, 8604
	Author	:	Sevryugova, N.N., Uvarov, O.V., Zhavoronkov, N.M.
	Inst Title	:	Determination of the Coefficients of Separation of Boron Isotopes in Equilibrium Evaporation of BCL3
	Orig Pub	:	Atom. energiya, 1956, No 4, 113-117.
	Abstract	:	The method of Rayleigh distillation was used to determine the coefficient of separation of boron isotopes (\propto) in the system B ¹⁰ Cl ₃ B ¹¹ Cl ₃ at evaporation temperatures from -85° to the normal boiling point of 12.7°. The de- pendence of \propto on the temperature (T) is expressed by the equation log $\propto = 0.00483 - 1.00757/T$. At a temperature of -61.7°, $\propto = 1$, below this point the B ¹¹ Cl ₃ is the more volatile ≈ 3 , while above this point B ¹¹ Cl ₃ is the more volatile. The procedure is described.
	Card 1/2		

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SEVRYUGOUR, N.N. SOV/1916 PHASE I BOOK EXPLOITATION 5(2) Vsesoyuznoye soveshchaniye po khimii bora, 1955 Bor; trudy Konferentsii po khimii bora i yego soyedineniy (Boron; Transactions of the Conference on the Chemistry of Boron and Its Coumpounds) Moscow, Goskhimizdat, 1958. 189 p. Errata slip inserted. 2,400 copies printed. Ed.: G.P. Luchinskiy; Tech. Ed.: M.S. Lur'ye. PURPOSE: This book is intended for chemists, as well as for industrial personnel working with boron and its compounds. COVERAGE: This collection contains 24 studies on the chemistry, crystalline structure, physicochemical properties, and technology of boron and its compounds. Twenty-two of the studies were presented at the All-Union Conference on Boron Chemistry, held at the Nauchno-issledovatel'skiy fizikokhimicheskiy institut im. L. Ya. Farpova (Scientific Re-search Physicochemical Institute in. L. Ya. Karpov) in Card 1/6

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Boron; Transactions of the Conference (Cont.) SOV/1916	
December 1955. Two of these articles deal with the th chemistry of boron. The two studies on "borundum" pro duction are being published for the first time. The s are well illustrated and accompanied by bibliographies	o- studies
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Boran; Transactions of the Conference (Cont.) SOV/1916 Ormont, B.F., V.A. Epel'baum, and I.G. Shafran. Study of the Boron-Carbon-Silicon System and the Production of "Borundum" 177 Ormont, B.F., V.A. Epel'baum, and I.G. Shafran. An Experiment in Commercial Production of "Borundum" and in Testing Its Properties 182 AVAILABLE: Library of Congress TM/rj 6-22-59 Card 6/6

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新教会法的新教师

5 (2), 21 (5) AUTHORS:	Sevryugova, N. N., Uvarov, O. V., SOV/20-126-5-36/69 Zhavoronkov, N. M., Corresponding Member AS USSR	
TITLE:	Separation of Boron Isotopes by Boron Chloride Rectification (Razdeleniye izotopov bora rektifikatsiyey khloristogo bora)	-
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1044 - 1046 (USSR)	
ABSTRACT:	At the beginning, the differences between the two boron iso- topes B^{10} and B^{11} are indicated (Ref 1). The light isotope B^{10} is used for filling neutron counters; besides, it can be used as a protection against neutron radiation, and for regulating the operation of reactors. The separation of boron isotopes is achieved by 5 different methods: a) electromagnetically, b) by thermodiffusion, c) by means of diffusion by vapor, d) by the chemical isotope exchange, and e) by rectification. The methods a) and c) make possible a high degree of separation, but are little productive. The method b) failed. At present, the two latter methods d) and e) can be regarded as most convenient for the B^{10} -production. Both of them have been chemically developed.	
Card $1/3$	the B -productions for	
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Separation of Boron Isotopes by Boron Chloride Rectification

The authors think that rectification is one of the most economical methods. They carried out the rectification of the BCl₃ in columns of various types of construction (Fig 1). The procedure is described in detail. Figure 2 shows the course of the increase in B^{10} Cl₃ in the retort liquid. Within 28 days, a 5-fold enrichment was obtained at a content of 100 cm³ liquid 5-fold distillation vessel. The stationary phase was not atin the distillation vessel. The stationary phase was not attained during the period mentioned. The calculation showed that the (maximum possible) separability of the column is equal to 800 theoretical steps. This should guarantee the obtaining of a product with a content of about 75 Mol-% B^{10} Cl₃. An approxi-

mate calculation showed that the production method for elementary boron described here is acceptable from an economical point of view. There are 2 figures and 5 references, 4 of which are Soviet.

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Card 2/3

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FERRELIEF CONTRACTOR 82733 s/089/60/009/002/004/015 B006/B056 Zhavoronkov, N. M. 24.6710 Uvarov, O. V., Sevryugova, N. N., AUTHORS: Separation of Stable Boron Isotopes 9 TITLE: Atomnaya energiya, 1960, Vol. 9, No. 2, pp. 110-125 PERIODICAL: TEXT: The present article gives a detailed description of the methods of separating the boron isotopes B^{10} and B^{11} which are interesting for industrial purposes. The molar ratio of the two isotopes in naturally occurring boron is about 20 : 80. The various methods furnish somewhat different values, and various authors also obtained different results by one and the same method (on BF_3) (cf. Table 1). These problems are briefly dealt with in the introduction, after which the electromagnetic method, the method of thermal diffusion, and the method of diffusion in the vapor current of an inert substance are discussed, while in the following the two most important methods of industrial separation of isotopes are explained in great detail: the method of chemical isotopic exchange and the method of rectifying boron halides. G. M. Panchenkov, V. D. Moyseyev, and A. V. Makarov Card 1/4

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SECTION FOR STREET

Separation of Stable Boron Isotopes	82733 s/089/60/009/002/004/015 b006/b056
(Ref. 31) were among the first who suggesteen boron halides and organic boron tion of boron isotopes. The separation f these processes and is, on the average, pendence for the systems $(C_{6}H_{5})(CH_{3})OBF_{3}$ given in Tables 2 and 3. For the last-me value of 1.054 at -20°C. The α -values de means of different isotopic exchange met grave disadvantage of the method consist the complex. This is the reason why induced to work by this method. The rectifice simple, but, in this case, the separation e.g., it is only 1.001; in practice, on the assonewhat higher α . In the first of α is given by $\alpha = 1.0488 e^{-6.17/T}$, and $\alpha = 1.0112 e^{-2.33/T}$. The temperature- assoned to be a some what higher α .	sted using the chemical exchange halogen complexes for the separa- actor α is comparatively large for about 1.03. Its temperature de- - BF ₃ and $(C_4H_9)SBF_3 - BF_3$ is intioned system α attains a maximum itermined by various authors by chods are given in Table 4. The is in the high molecular weight of metrial plants find it less economi- cation methods are considerably more on factor is small. In BO ₃ (CH ₃) ₂ , ly BF ₃ and BCl ₃ are used, which case, the temperature dependence and in the second case by
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82733 s/089/60/009/002/004/015 Separation of Stable Boron Isotopes воо6/во56 in BF3 rectification are illustrated also by the numerical values in Table 6 and the $\alpha(T)$ curve in Fig. 3. $\alpha(T)$ for BCl₃ rectification is shown in Fig. 5. The greatest disadvantage of the rectification methods consists in the fact that, for the purpose of increasing α , it is necessary to work at the lowest possible temperatures, which reduces productivity because of the consumption of liquid air. BCl3 rectification seems to be the most profitable method; though the separation factor is only about 1.003, this value may be attained at atmospheric pressure and room temperature. A large table (5) shows the characteristics of the individual columns for rectification- and isotopic exchange methods (taken from Refs. 40-47). The most important data of the various methods are compared in Table 7. There are 7 figures, 7 tables, and 71 references: 23 Soviet, 20 US, 5 German, 4 British, 1 French, 6 Dutch, 2 Swedish, and 1 South African. Card 3/4

ENTRY MANAGER

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s/076/60/034/05/10/038 во10/воо2 Sevryugova, N. N., Uvarov, O. V., Zhavoronkov, N. M. 5.2400(A) Separation Factors of Boron Isotopes in the Equilibrium AUTHORS: Vaporization of Boron Fluoride TITLE: Zhurnal fizicheskoy khimii, 1960, Vol.34, No.5, pp.1004-1008 TEXT: The authors investigated the dependence of the separation factors α on temperature with respect to the system $B^{11}F_3 = B^{10}F_3$ under equilibrium PERIODICAL: vaporization. The values of α were determined by Raleigh's distillation method. In order to obtain a larger value of G_0/G_E (G_0 and G_E = amount of substance at the beginning and at the end of distillation), vaporization was brought about in two stages. Experiments took place in a device suited for the purpose (Fig. 2), the main elements of which are two vagporization vessels (Fig. 1), in which mixing is done with magnetic stirrers. The vessels are installed in a cryostat filled with isopentane, the temperature of which is measured with thermocouples. Experiments showed (Table 1) that the maximum value of α is attained at a stirrer speed of 200 rpm. Determinations of the influence exerted by the boiling temperature (measured at 157 to 168°K) on the value of α revealed (Table 2) that α drops with temperature, which fact had already been observed on the system B¹¹Cl₃ = B¹⁰Cl₃. Card 1/2

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AUTHORS:	Sevryugova, N. N. and Zhavoronkov, N. M., Corresponding Member of the AS USSR	•
TITLE:	Temperature Dependence of the Partition Coefficient of the System $C^{130} - C^{120}$	
PERIODICAL:	Doklady Akademii nauk SSSR, 1960, 701. 134, No. 4, pp. 875-878	
$C^{120} - C^{120}$ scientists, ΔP between t of C^{13} and O C^{13} . The pur from pure su	where attempted to study the partition coefficients in the system, which had been determined already earlier by other in a wider temperature range. They measured the difference the vapor pressure of carbon monoxide with a natural content and the vapor pressure of carbon monoxide with 23% and 32% 18 and the vapor pressure of carbon monoxide with 23% and 32% ification of CO with natural isotopic composition and obtained ification of CO with natural isotopic composition and obtained lfuric and formic acids is described: removal of moisture, CO_2 by means of CuO, removal of N ₂ , O ₂ , Ar by freezing, CO by means of Zn, examination of purity by means of an	<u> </u>
Card 1/3		

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Temperature Dependence of the Partition Coefficient of the System $C^{13}O - C^{12}O$

s,'020/60/134/004/035/036XX B004/B067

MC-4 (MS-4) mass spectrometer and on the basis of the freezing point. Samples with C13 excess and normal O18 content wire obtained from the CO samples with C13 and O18 excess, which had been prepared at the laboratory of adsorption processes of the authors' Association according to the following reaction scheme: $C^{13}O^{18}+CuO^{16} = Cu+C^{13}O^{16}+C^{13}O^{16}$; $C^{13}O^{16}+H_2$ $= C^{13}H_4+H_2O^{16}+H_2O^{18}$; $C^{13}H_4+4CuO^{16} = 4Cu + 2H_2O^{16}+C^{13}O^{16}_2$; $C^{13}O^{16}_1+Zn$ $= ZnO+C^{13}O^{16}$. These samples were purified in the same way as the standards with natural composition. ΔP was measured in an apparatus calibrated with a CO standard. The apparatus contained two cells filled with a standard and $C^{13}O$. The temperature was varied between -170 and +205°C, corresponding to a pressure change from 100 mm Hg to 5 atm in the cells. A temperature dependence of the partition coefficient α was obtained from the equation $(\alpha - 1) = \Delta P/F(N_1 - N_2)$ (P = pressure in the cells; N₁ and N₂ = C¹³ content in the two cells expressed in molar parts), which follows the equation $\alpha' = Aexp(B/T)$. The following values were found for the constants by a graphical representation of the function $\log \alpha = f(1/T)$: A = 0.9954; B = 1.477. B = $(\lambda_{C130} - \lambda_{C120})/R = \Delta \lambda/R$, where λ denotes the evaporation

Card 2/3

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CIA-RDP86-00513R001548220011-7

s/191/62/000/006/002/016 5110/8138

Sevryugova, N. N., Sokol'skiy, V. A., Chervyakova, A. A., AUTHORS: Zhavoronkov, N. M.

High purification of industrial styrene

Plasticheskiye massy, no. 6, 1962, 5-7

PERIODICAL: TEXT: An attempt was made to reduce the impurity content of styrene to analytical purity. Rectification was performed at 50 mm Hg in a Pyrex laboratory rectification column. The column, 1.5 mm high and 30 mm in diameter, was filled with 3.3 mm spirals of 0.2 mm stainless wire and possessed only a slight hydraulic resistance. The surface of the condensation column was calculated so that vapor completely condensed even under maximum pressure. Before setting the apparatus in operation, it was evacuated to 1-2 mm Hg, 1 liter styrene was poured into the flask, and the heater switched on. With a styrene/ethyl benzene mixture in a ratio of 4 to 13% and a distribution coefficient of 1.36, the maximum load on the cross-section of the column was 1100 cc/hr, equivalent to 160 cc/cm²·hr. With a minimum charge of 500 cc/hr, the steady state developed after 6 hrs.

Card 1/2

TITLE:

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CIA-RDP86-00513R001548220011-7

SEVRYUK, Viadimir Mikhaylovich; SHVYDCHENKO, L. I., red.; ALYAKRITSKATA, L.S., tekhn.red. [Let us fatten 6000 swine per year] Otkormin za god 6000 svinei. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1960. 18 p. (MIRA 14:12) 1. Starshiy svinar' uchebno-opytnogo khozyaystva "Zernovoye", Mechetinskogo rayona (for Sevryuk). (Swine-Faeding and feeds) 1

APPROVED FOR RELEASE: 08/23/2000





RUMYAN'ISEV, B.F., dots., otv. red.; GULIDA, E.N., red.; KARTASHOV,
I.N., prof., red.; KIRILLOV, Yu.G., dots., red.;
MOGIL'NYY, N.I., dots., red.; SEVRYUK, V.N., dots., red.;
STAN'KO, D.G., dots., red.; TSOT, N.G., dots., red.;
KHLUS, A.A., dots., red.; FOLUBICHKO, B.V., red.
[Problems of locomotive manufacture, technology of machine manufacture and founding] Voprosy lokomotivostroeniia, tokhnologii mashinostroeniia i liteinogo proizvodstva.
L'vov, Izd-vo L'vovskogo univ., 1964. 126 p. (MIRA 17:10)
1. Lugansk. Mashinostroitel'nyy institut.

APPROVED FOR RELEASE: 08/23/2000















[General metallurgy] Obshchaia metallurgiia. Moskva, Metallurgizdat, 1954. 640 p. (MLRA 7:11D)



VOLYNSKIY, I.S., SEVRYUKOV, N.N.

Tin sulfieds. Zhur.ob.khim. 25 no.13:2380-2388 D '55.(MLRA 9:3)

1. Moskovskiy institut tsvetnykh metallov i zolota imeni M.I. Kalinina. (Tin sulfides)

APPROVED FOR RELEASE: 08/23/2000

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APPROVED FOR RELEASE: 08/23/2000

Seuryukou N.N. 137-1958-3-4643 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 26 (USSR) AUTHOR: Sevryukov, N. N. TITLE: The Dissociation Pressure of Higher Sulfides of Tin (Davleniye dissotsiatsii vysshikh sul'fidov olova) PERIODICAL: Sb. nauchn. tr. Mosk. in-t tsvetn. met. i zolota i VNITO tsvetn. metallurgii, 1957, Nr 26, pp 259-264 ABSTRACT: Results of experiments dealing with the determination of the dissociation pressure of SnS_2 at temperatures of 350° , 400° , 450° and 500° , are presented in the form of tabular and graphical data which readily conform to a straight line represented by the equation: $\log pS_2 = -19,280/T + 16,66$. The sulfides exhibited volatility in a range of temperatures between 450°-500° only. Calculated values of standard isobar potentials of the formation of highest sulfides of Sn are given, as follows: for $SnS_2: \Delta Z_{298.1}^{\circ} \approx$ - 47,552 cal, and Į. for $Sn_2S_3: \Delta Z_{298,1}^{o} \approx -64,561$ cal. Card 1/1G. F.

APPROVED FOR RELEASE: 08/23/2000

- AUTHOR:	Sevryukov, M.M. SOV/136-58-6-15/21	
TITIE:	New Method for Treating Lean Complex Tin Raw Material (Novyy metod pererabotki bednogo kompleksnogo olovyannogo syr'ya)	
PERIODICA	L: Tsvetnyye Metally, 1958, Nr 6, pp 86 - 93 (USSR)	
	The author states that present methods of treating lean tin ores containing other valuable metals are not suitable for the high standards of purity demanded of tin. He describes results of laboratory investigations of a new, hydrometallurgical process based on the sintering of tin- or tin and tungsten-containing material with sodium sulphide to form water-soluble thiosalts (Figure 1 shows flowsheet). In practice, the sintering is with a mixture of sodium sulphate, coal and sulphur in a rotary kiln at 850 °C. The product is leached without grinding or warming solutions. The solutions contain tin as wa4SnS4 and	\$
	tungsten as $Na_2WO_xS_y$ where $x = 1, 2, 3$ and $x + 4 = 4$.	
Cardl/3	Silica, alumina, iron and heavy non-ferrous metals hardly go into solution. The small amounts of arsenic and antimony (mainly arsenic) which remain after sintering	
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SOV/136-58-6-14/21 New Method for Treating Lean Complex Tin Raw Material go into solution and are removed by a preliminary electrolysis before the electrodeposition of tin. For the latter, a diaphragm process was found to be better than the use of an insoluble lead anode (Figure 6 shows the dependence of the lead-anode potential on the current density in Na4Sn54 and Na2S solutions at 25 °C). The main electrolysis is carried out in iron baths with canvas diaphragms at 50 - 55 °C, the current density being 100 - 200 A/m². The spent electrolyte is evaporated and the sodium salts regenerated and returned for sintering after drying: some tungsten and tin can also be recovered at this state. Results obtained with raw material containing 1.05, 4.69, 9.50 and 10.7% Sn showed recoveries in the solution of 92, 88.4, 93.7 and 82.3%, respectively, of the tin with appreciable losses in sintering (solution). As part of the research, the author determined the 20 °C isotherms for the system Na2S - SnS2 - H20 (Figure 2), the dependence of the cathode potential on the current density for Na4Sn54 solutions of various concentrations Card 2/3

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SOV/136-58-6-15/21 New Method for Treating Lean Complex Tin Raw Material (Figure 4) and the ampere yield for various concentrates (Figure 5). From a rough economic analysis, the author concludes that Mark 0-3 tin produced by the new process would cost 55.3% of the present fixed dispatch price and that capital costs would be recouped in 17 months. Raw material, fuel and other materials, power, wages and amortisation he estimates at 33.2, 20.7, 3.0, 21.6 and 5.1% of the total costs. There are 6 figures, 1 table and 8 references, 1 of which is English and 7 Soviet. ASSOCIATION: Mintsvetmetzoloto Card 3/3





SEVRYUKOV, N. N.: Doc Tech Sci (diss) -- "Cutlook for the development of the hydrometallurgy of thiosalts". Moscow, 1959. 18 pp (Min Higher Educ USSR, Krasnoyarsk Inst of Nonferrous Metals im M. I. Kalinin), 150 copies (KL, No 14, 1959, 119)










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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548220011-7
KOLODIN, Samuil Mikhaylovich; SEVERYUKOV, N.N., red.; LUTSKAYA,
G.A., red.izd-va; EL'KIND, L.M., red.izd-va;
MIKHAYLOVA, V.V., tekhn. red.
[Secondary tin] Vtorichnoe olovo. Moskva, Metallurgizdat, 1963. 219 p. (MIRA 17:2)

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<u>L 44580-66</u> EWT(m)/EWP(t)/ETI IJP(c) JD ACC NR: AP6015641 SOURCE CODE: UR/0413/66/000/009/0052/0053 /O	
INVENTOR: Sevryukov, V. N.; Martyushin, I. G.	
ORG: none	
TITLE: Apparatus for direct heating of a fluidized bed. Class 21, No. 181211	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 52-53	
TOPIC TAGS: fluidized bed, heating equipment	
ABSTRACT: This Author Certificate introduces an apparatus for direct heating of a fluidized bed of electroconductive material. The device features a housing containing a gas distributor grate and a system of heating elements. In order to impart stable electric properties to the fluidized bed, the heating elements are shaped as horizontal flat, grid-type electrods arranged vertically at a certain distance from each other.	
The space between mem is information [LD] Fig. 1). Orig. art. has: 1 figure. [Translation]	
Card 1/2 UDC: 66,023,2:621,365,32	

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Passage of intense pulsed S/057/61/031/006/017/019 B116/B201 tude of the time required for complete neutralization of the beam), they will return to the electron-beam axis. Both the radial and the longitudinal will return to the electric field are modified by this process. This, however, component of the electric field are modified by this process. This, however, has an effect upon conditions on the passage of the beam through the tube, has now been made of the passage of a pulsed electron beam through a dielec- has now been made of the passage of a pulsed electron the following manner: A tric tube. The experiment has been conducted in the following manner: A square voltage pulse having an amplitude up to 50 kv, a duration of 4.4µsec square voltage nulse having an enplitude up to 50 kv, a duration of 4.4µsec square voltage nulse having an injected into a quartz tube with an internal pulse. The electron beam was injected into a quartz tube with an internal pulse. The electron beam was injected into a quartz tube mit an internal pulse. The electron beam was injected into a first side of the tube, the diameter of 9 mm and a length of 120 mm. On the other side of the tube, the chamber was varied from $2 \cdot 10^{-4}$ to 10^{-2} mm Hg. Part of the beam reached the electrostatic analyzer, by which the energy spectrum of the electrons in the beam was determined. A 30-mm wide metal ring, used for measuring the radial	Passage of intense pulsed $S/057/61/031/006/017/019$ B116/B201tude of the time required for complete neutralization of the beam), they will return to the electron-beam axis. Both the radial and the longitudinal momonent of the electric field are modified by this process. This, however, component of the electric field are modified by this process. This, however, has an effect upon conditions on the passage of the beam through the tube, has no when made of the passage of a pulsed electron the following manner: A tric tube. The experiment has been conducted in the following manner: A tric tube. The experiment and a maplitude up to 50 kv, a duration of 4.4µmec square voltage pulse having an amplitude up to 50 kv, a duration of 4.4µmec square to the electron beam with an amperage of up to t a in the mitted obtaining an electron beam with an amperage of the tube, the diameter of 9 mm and a length of 120 mm. On the other side of the tube, the diameter of 9 mm and a length of 120 mm Hg. Part of the beam reached the chamber was varied from $2 \cdot 10^{-4}$ to 10^{-2} mm Hg. Part of the beam reached the electrons in the electronstatic analyzer, by which the energy spectrum of the electrons in the abeam was determined. A 30-mm wide metal ring, used for measuring the radial			Ĩ	·
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JD/GG/AT ACCESSION NR: AP5021175 32		
AUTHOR: Zaydman, S. A.; Sevryukova, L. M.		
TITLE: The irradiation of <u>silicon</u> with fast neutrons and its effect on the elec-E		
SOURCE: IVUZ. Fizika, no. 4, 1965, 96-99		
TOPIC TAGS: p n junction, irradiation, neutron irradiation, radiation damage,		
radiation effect, silicon		(
ABSTRACT: The initial material exposed to irradiation was Si doped with P with a resistivity of 5-7 ohm cm. All measurements were performed directly on the crysteristivity of 5-7 ohm cm. All measurements were performed by alloving Si with Al \sim Ex-		
tals, from which p-n junctions were then fabricated by alloging integrated flux of		
15.2 x 10^{10} n/cm ²) resulted in an increase in the density of directions requires		
heating to 670C, the effect of heating on annealing of radiation derects and and heating to 670C, the effect of heating of minority carriers t increased by about		
investigated. Although the interime of minorod, remained approximately the 10 µsec after annealing, the density of dislocations remained approximately the same. The increase in t was attributed to annealing/Si vacancies and interstitial.		
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.ت. SEVRYUKOVH, 0-3 USSR/Plant Diseases. Diseases of Cultivated Plants Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44457 : Sevryukova L.S. Author : Khar'kov Agricultural Institute Inst : The Use of the Gas Desorption Fisinfecting Method to Control Title Wheat Bunt Orig Pub : Zap. Khar'kovsk. s.-kh. in-ta, 1957,13, (50), 149-154 Abstract : Both laboratory and field tests on the use of the gas desorption method in the control of wheat bunt have established the high toxicity of the bunt spores and the beneficial influence on summer wheat seed germination of the preparations: furfura sorbent soil 5% in a dose of 2% of the seed weight with 24 hour exposure, and furfural-sorbent soil at 10% in a dose of 19 of the grain weight. The simultaneous planting of the seeds with the gas desorption preparations (formaldehyde and formic acid) cut the wheat bunt infection by $2-2\frac{1}{2}$ times. --Ye.D. Yakimovich : 1/1 Card

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11-1-1-1

USSR/Chemistry - Amm	onium nitrate	JrD-2723	
Card 1/1	Pub. 50 - 4/20		
Authors	: Sevtsov, A. I., Kil'man, Ya. I.		~
Title	: Improvement of the operation of plant duce ammonium nitrate	departments which pro-	
Periodical	: Khim. prom. No 5, 268-270, Jul-Aug 195	55	
Abstract	: Measures are outlined for carrying out monia with nitric acid in such a manne ammonia or nitric acid are avoided. I neutralization is recommended as the in evaporation and separation are also for reducing them discussed. One figu	er that losses of either The method of vacuum most efficient. Losses o mentioned and measures	
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Sevules Ku, RUMANIA / Cultivated Plants, General Problems L-l Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22640 : Sevulesku A Author : Not given Inst Title : Development of the Science and Practice of Agronomy in the Rumanian People's Republic. Achievements of the Institute of Agron Dmic Research in RPR Orig Pub : An. Inst. cercetari agron., 1952-1953 (1955), 22, No 3, 3-146 Abstract : The thematic plan of the Institute of agronomic research embraces problems and themes which respond on the one hand to demands put forth by agricultural practice and the socialist reformation of agricultural economy and, on the other hand, by the requirements of a profound theoretical study of agrobiological science. The Institute has 14 departments (soil science, agrotechnique, specialized agro-: 1/3 Card

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L-1 RUMANIA / Cultivated Plants. General Problems Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22640 Abstract : technique, improvement of plants, meadows and pastures, vegetable cultivation, fruit cultivation, grape cultivation, phytopathology, agricultural zoology, agricultural melioration, agroforest melioration, technology, economics and socialist economic organization), 2 laboratories (seed control and climatologic), and a central silk cultivation station. The Institute has 27 outlying testing stations. The Institute and its experimental stations maintain constant contact with 152 farms of the socialist sector. The results of achievements of the Institute and its stations for the past 10 years are noted (numerically and in tables). Also detailed list of the Institute's published works is gia ven. The ties of the Institute with the Academy of Sciences, Rumanian People's Republic, and other institutes are noted. In conclusion, the activity of the Institute is : 2/3 Card

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SEVULESKU, A RUMANIA/Cultivated Plants. Potatoes. Vegetables. Melons M-5 Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1586 : A. Sevulesku, St. Stan Author : Scientific-Research Agronomical Institute Inst : The Effect of Several Growth Stimulants on the Amount and Title Quality of the Tomato Crop. Orig Pub : Comun. Acad. RPR, 1956, 6, No 8, 1007-1013 Abstract : Aqueous solutions of Na salts 2, 4-T (10 milligrams per liter) w, r, 5-T (50 mg/l) and beta-naphthoxyacetic acid (50 mg/l) have been applied by the Agronomical Scientific Research Institute of the Academy of Sciences Rumanian Peoples Republic. The spraying with 3,4-D raised the percentage of seedless fruits up to 63%, the crop yield by 17%, and accelerated the fruit ripening. The best grades of fruits were obtained by treating them with 2,4,5-T. : 1/1 Card APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548220011-7" RUMANIA/Plant Diseases. Diseases of Cultivated Plants. Abs Jour: Ref Zhur-Biol., No 6, 1958, 25365.

> Author : <u>Sevulesku</u>, Fosteris, Petresku, Polyak. Inst : Eucharest Agronomic Institute. : New Gambo Hemp Diseases in Rumania. Title (Novyye bolezni kenafa, otmechennyye v Rumynii).

Orig Pub: Anuarul lucrar. stiint. inst agron., 1957, 75-88.

Abstract: At the Experimental Field of the Bucharest Agronomical Institute one discovered in the summer of 1956: Ascochyta hibisci-cannabini Chochrjkow, Alternaria hibiscina (Thum.) Lissitzyna, Botrytis cinerea Pers. and Cuscuta campestris Yuncker. The two former species are new in Rumania.

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