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	which at $(-)$ can become infinite; b) there exists a continuous (in both arguments) derivative
	$K_{\varepsilon}(\varepsilon; \varepsilon) < 0, O < \varepsilon < \varepsilon < 1$ There is 1 Soviet reference.
AGGOGTATION	
ASSOCIATION:	Kyyivs'kyy inzhenerno-budivel'nyy instytut (Kiyev Construction Engineering Institute)
PRESENTED:	By Y.Z. Shtokalo, Member, AS UkrSSR
SUBMITTED:	March 7, 1959
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ACCESSI	ON NR: AP3000235	• . 	S/0185/63/008/0	05/0569/0574	
	Vasylev'ka, V. M.	, Datsenko, L. I	•	58	
TITLE:	Investigation of	the effect of ann	ealing on dislocat	ions in germanium	
- P i 1 1 1	Ukrayins'kyy fizy		· · · · · · · · · · · · · · · · · · ·		
TCPIC T anomalo	AGS: annealing, di us transmission, di	islocation, germa islocation line,	nium, etching, x-r dislocation densit	ay transmission, y, point defect	
ABSTRAC	I: The effect of h	igh temperatures	on dislocations i	n germanium was	
transmi	ssion of X-rays, th	e latter making ;	ic possible to est	thod of the anomalous imate both the change	
in dens	ity of the dislocat	ions and the nat	ure of their inter.	actions. The speci-	1
10 sup	$2 - 10 \sup 4 \operatorname{cm} -2$	as well as with	germanium with a out dislocation. 0	density of dislocation .8-1.0 mm thick. The	ns :
specime	ns were annealed i	n vacuum 1 · 10 s	sup -5 mm Hg. at th	temperature of	•
tempera	2, 4, 8, and 16 h ure. Following th	ours, and cooled a annealing, a ca	at the rate of 300 rtain decrease in	C per hr to room the density of dis-	
locatio	is was observed. I	n a number of cas	ses doubling of the	a dislocation line	

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ACCESSION NR: AP3000235		1
7. I. Trefilov for their interes Drig. art. has: 4 photographs.	defects which possibly are aggreg spress their gratitude to O. G. M st in this project and their valu vidny*kiv AN URSR (Institute of S	liselyuk and table counsel."
UEMITTED: 12 Oct 62	DATE ACQ: 18 Jun 63	ENJL: 00
UB CODE: PH	NO REP SOV: 004	OTHER: 004

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CONCEPTION OF

AUTHORS: Vasylevs'ka, V.M., Datsenko, L.I. and Miselyuk, O.H. TITLE: Study of structural imperfections in germanium single crystals

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 3, 1962, 278 - 286

TEXT: Methods are compared for revealing dislocations in Germanium single crystals, as well as the bulk distribution of the dislocations as a function of various technological factors. Metallographic - and X-ray diffraction techniques were used. The most commonly used etchants were investigated: (I) CP-8 (a mixture of HF and HNO_3), (II) -a mixture of $K_3Fe(CN)_6 + KOH + H_2O$, (III) -- a mixture of HF + $HNO_3 +$ CH₃COOH + KI + H₂O. The etchants were compared by testing their effect on crystal surfaces with different crystallographic orientation. It was found that the density of the revealed dislocations depends to a large extent on the type of etchant. Etchant III revealed dislocations on the

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S/185/62/007/003/006/015 Study of structural imperfections ... D299/D301

(100)-, (110)- and (111)- planes, with a dislocation density by 2-3 orders of magnitude higher than that revealed by etchants I and II. Etchant III revealed, in addition to the edge dislocations revealed by etchant II, also smaller edge-dislocations, as well as screw- and mixed dislocations, of a total density of 105 - 106 cm-2. Thereby the pronounced steplike structure of the etching figures is preserved. The bulk distribution of dislocations was studied in single crystals with the following structure: octahedral with (111)-faces, cubic with (100) -faces and polyhedral with (100)-, (110)- and (111)- faces; thereby the etchants II and III were used. No preferential orientation in the dislocation distribution was observed. This makes it feasible to determine the density of dislocations on one of the crystallographic planes, irrespective of its position with respect to the growth axis. The effect was studied of sharp changes in the crystallization process (due to changes in growth rate and introduction of impurities), on the density and distribution of dislocations; as a result of these changes, the distribution of the dislocations becomes very irregular. At the sites where the crystallization process has been disturbed, an

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Study of structural imperfections ... D299/D301

accumulation of the impurities, injected in the melt, was observed. To these sites correspond maxima and minima of the curve $n_d = f(r)$ (dislocation-density versus length of single-crystal). The angle of micorientation 0 increases at the edge of the single crystal. The above results show that disturbed crystallization conditions and the ensuing structural imperfections are responsible for the irregular impurity distribution in the single-crystal. There are 8 figures, 3 tables and 17 references: 4 Soviet-bloc and 13 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: R.K. Mueller, J. Appl. Phys., 30,2015, 1959; S.G. Ellis, Phil.Mag.,2, 1265, 1957; P. Fennig, Philips Techn. Rev., 19, 357, 1957/58; S.G. Ellis, J. Appl. Phys., 28, 1262, 1957.

ASSOCIATION: Instytut napivprovidnykiv AN URSR (Institute of Semiconductors of the AS UkrRSR), Kyyiv

SUBMITTED: May 22, 1961

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	$L_{24656-65} = EWT(m)/T/EWP(t)/EWP(b) = LJP(c)/AFWL/RSD/SSD/ASD(a)-5/ESD(gs)/ESD(c)/AFWL/RSD/SSD/ASD(a)-5/ESD(c)$
	ACCESSION NR: AP4046660 S/0185/64/009/009/0856/0961
	AUTHOR: Barans'ky*y, P. I.; Vasy*levs'ka, V. M.
	TITLE: Investigation of the electrophysical properties and structures of disloca- tion free germanium crystals
	SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 9, 1964, 956-961
	TOPIC TAGS: germanium, semiconductor, <u>dislocation</u> free germanium, low temperature annealing, germanium crystal, dislocation density, current carrier concentration, vacancy
	ABSTRACT: Comparative experiments were conducted to elucidate the effect of low temperature annealing on n-type germanium crystals containing antimony as an impurity and differing greatly in dislocation density. The annealing noticeably decreased the concentration of the current carriers n_e in the dislocation-free n-germanium samples, but had little effect on the current carrier concentration in the samples with $N_D \approx 5 \cdot 10^3$ cm ⁻² . It was proposed that this decrease in cur- Cord $1/2$
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L 24656-65 ACCESSION NR: AP4046660

rent carrier concentration resulting from low-temperature annealing of typical dislocation-free crystals is characteristic of such material and is caused by the higher density of vacancies in comparison to crystals with dislocations. The assumption that the vacancies, and not the change in the electrical activity of the impurity atoms, were connected with the decrease of n_e was supported by the following factors: (1) low temperature annealing reduced typical thermal acceptors to the passive state, which would have increased and not decreased n_e in the conductance zone. (2) Formation of GeO_4 -type associated complexes with oxygen must be accompanied by the appearance of additional donor centers which would also increase and not decrease $n_{\rm p}$ (3) It was impossible to change the observed decrease in n_e by diffusion of copper (acceptors) into the bulk of the crystals by the annealing process "The authors thank O. G. Miselyuk for attention to the work and discussion of the results." Orig. art. has: 5 figures.

ASSOCIATION: Institut napivprovidnikiv AN URSR m. Kiyiv (Institute of Semiconductors AN URSR) SUBMITTED: 30Dec63 SUB CODE: 55 NO REF SOV: 001 OTHER: 007

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APPROVED FOR RELEASE: 08/31/2001

VASILEVSKIY, V.S., [Vaylevs'kyi, V.S.]

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Participation of the cerebellum in the regulation of intestinal absorption. Fiziol. zhur. [Ukr.] 10 no.3:334-341 My-Je '64. (MIRA 18:9)

1. Kafedra fiziologii cheloveka i zhivotnykh Odesskogo gosudarstvennogo universiteta im. I.I.Mechnikova.

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23669 194 da an (15 37) z/039/61/022/003/001/006 E192/E382 24,7800(1145,1043,1035) vasyiuk, Rostislav, Engineer AUTHAL Entropy and Permittivity TITLE: Slaboproudy obzor, 1961, Vol. 22, No. 3, PERIODICAL: pp. 136 - 142 A relationship between the permittivity of a dielectric TEXT: and its entropy is determined and this is used to explain the temperature dependence of the permittivity. In the statistical thermodynamics the entropy is expressed as S = k, $\ln W$ where k is the Boltzmann constant and is the statistical probability of a given state of W the system considered. In the case of a dielectric, the entropy would represent the degree of randomness of the molecular electrical dipoles in a unit volume of the dielectric. On the basis of the Maxwell Card 1/9 a faile a second second second second

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23669 z/039/61/022/003/001/006 E192/E382 Entropy and Permittivity equations it is found that if the electric displacement or induction D is changed by dD, the energy stored in a unit volume of the substance would change by $dU_1 = E dD$. On the other hand, a change in temperature, the volume being constant, results in a change of the energy in the dielectric $dU_{o} = dQ$ so that the total energy increment when the temperature and the external field of the dielectric are changed is: $dU = dU_1 + dU_2 = dQ + E dD$ (1). On the other hand, (2)dQ = T dSwhere the entropy dS is the total differential expressed by Card 2/9 23669 z/039/61/022/003/001/006 E192/E382 Entropy and Permittivity APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859020011-4" $dS = \frac{\partial S}{\partial T} dT + \frac{\partial S}{\partial E} dE$ (3). Since $D = \varepsilon_{\rm s} \varepsilon_{\rm c} E$ the entropy of the dielectric can be expressed as $S = S_o(T) + \frac{\partial \varepsilon_s}{\partial T} \cdot \frac{\varepsilon_o}{2} E^2 \cdots \stackrel{!}{=} S_o(T) + S_E(E, T)$ (5) where $\epsilon_{\rm s}$ is the static permittivity of the dielectric. The first term in Eq. (5) expresses the entropy of the dielectric independently of the electric field. The second term shows that for a given constant electric field E the Card 3/9 '

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Entropy and Permittivity

increase in entropy S_E is proportional to the derivative of the static permittivity with respect to temperature, i.e.

 $S_{E} = \frac{\varepsilon_{o}}{2} E^{2} \cdot \frac{\partial \varepsilon_{s}}{\partial T} = const. \cdot \frac{\partial \varepsilon_{s}}{\partial T}$ (5a)

from which it follows that:

$$\varepsilon_{\rm s} = {\rm const.} \int S_{\rm E}(T) dT$$
 (5b).

It is seen, therefore, that if the temperature is increased the component S_0 of the entropy is changed and if the dielectric is situated in an electric field, a component S_E is also produced, which is also dependent on temperature. A graph of the entropy component S_E produced by the external

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field is illustrated in Fig. 1a. On the other hand, Fig. 1b shows an integral curve obtained by integrating the graph of Fig. 1a; this illustrates the static permittivity s_{\pm} as a

function of temperature T . It is seen that at zero temperature the permittivity is $\epsilon_{\rm p}$ and this then increases gradually to a temperature T . As the temperature is further increased, $\epsilon_{\rm g}$

becomes reduced. Most of the solid dielectrics behave in the manner illustrated in Fig. 1b. However, there are some deviations from this behaviour. In the case of a non-polar substance a characteristic maximum of ε_{1} is not observed since

the permanent dipoles are missing. As regards the crystalline substances, these exhibit certain steplike discontinuities. Crystalline ionic substances and glass follow the same pattern as that illustrated in Fig. 1b. Polymers also follow the same pattern, while ferro-electric exhibit a very sharp peak. Liquids and gases behave in the manner illustrated in Fig. 1b. The frequency dependence of permittivity at a constant temperature can be best described by the so-called Cole-Cole diagram, such as Card 5/9

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z/039/617022/003/001/006 E192/E382 Entropy and Permittivity illustrated in Fig. 6 (Ref. 6: Vasyluk, R. Slaboproudy obzor Vol. 21, 1960, No. 3, pp. 145-152). Such diagrams can be constructed for various temperatures. an example of such a system is shown in Fig. 7. By investigating this figure it is concluded that the permittivity modulus ε^{ν} behaves in the following manner: a) absorption maxima occur at the temperature of the first inflection point of $\varepsilon^{2}(\mathbf{T}) \neq 0$ b) the maximum absorption occurs at higher temperatures as the frequency increases, c) the absorption maxima decrease with increasing frequence, and the values of the dynamic permittivity ε^{\dagger} decrease with d) increasing frequency. On the basis of Fig. 7 it is also possible to determine the behaviour of the permittivity temperature coefficient. In the measurement of dielectrics at various temperatures and frequencies it is necessary to represent the measured Card 6/9 23669 . Z/039/61/022/005/001/006 · Entropy and Permittivity E192/E382 APPROVED FOR RELEASE: 08/31/2001 .gxGLA+RDP86+00513R001859020011-4" by constructing the graphs of the type illustrated in Fig. 8. There are 9 figures and 6 references: 1 Czech and 5 non-Czech. The three English-language references quoted are: Ref. 1: H. Fröhlich - Theory of Dielectrics, London, 1950; Ref. 2 - Smyth, Ch.Ph. Dielectric behaviour and Structure, International Chemical Series, 1955; Ref. 4 - Hippel, A.R. Dielectric Materials and Applications, New York, London, 1954. ASSOCIATION: Výzkumný ústav sdělovací techniky A.S. Popova, Praha (A.S. Popov. Telecommunications Research Institute, Prague) SUBMITTED: February 8, 1960 Card 7/9

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VASYLUK, Rostislav, inz.

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High-loss dielectric, a new component for electric circuits. Slaboproudy obzor 23 no.9:489-495 S '62.

1. Vyzkumny ustav pro sdelovaci techniku A.S. Popova, Praha.

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Vasyluk, Rostislav, Engineer, Candidate of Sciences AUTHOR: A new method of synthesis of linear bipoles TITLE: PERIODICAL: Slaboproudý obzor, v. 24, no. 3, 1963, 126 - 134 A numerical method of synthesis, in which the TEXT: approximation is neither directly used nor do the roots of highorder polynomials have to be evaluated, is presented. For the synthesis it is necessary to have a measured or prescribed frequency characteristic of the bipole. This is assumed to be represented by a positive real function of the variable p. The impedance Z of a bipole consists of a series combination of a frequency-dependent resistance $R_{e}(\omega)$ and frequency-dependent inductance $L_{e}(\omega)$ and its admittance Y consists of a frequency-dependent conductance $G_{e}(\omega)$ and a parallel capacitance. $C_{e}(\omega)$: (4) $Z(\omega) = R_{\rho}(\omega) + j\omega L_{\rho}(\omega)$ (5). $Y(\omega) = G_{\alpha}(\omega) + j\omega G_{\alpha}(\omega)$ Card 1/3

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"Polar" graphs of the bipoles are obtained by plotting such impedances, $Z(\omega)$, and admittances, $Y(\omega)$, in coordinates R and L_e or G_e and C_e . Examination of these graphs shows that in C, G systems the following characteristic quantities can be discerned: a parallel ohmic conductance G_p , a parallel capaci-tance C_p and a series capacitance C_s . p_G^p is given by the distance of the polar graph from the vertical axis C ; This component is separated by shifting the graph in the negative direction of the axis G_{e} . C_{p} is given by the distance of the graph from the horizontal axis G and its value is determined by shifting the graph in the negative direction of the axis C . C_s represents a segment on the axis C_e which the polar graph cuts at the frequency $\omega = 0$. The characteristic quantities which can be separated in LR systems are a series resistance R_s , a series inductance L_s and a parallel inductance L_p . These can again be determined by shifting the graph. It is therefore possible to determine the following frequency-independent parameters Card 2/3

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from CG and the corresponding LR graphs: R_s , R_p , L_s , L_p , C_s and C. The synthesis of a bipole is now carried out by starting either with an LR or a CG system and separating the frequencyindependent components. If LR is first employed and its frequency-independent parameters are eliminated, the remaining components are transformed into the CG system and again the frequency-independent parameters are eliminated; this is followed by another LR and then CG transformation and so on, until the system in either LR or CG coordinates represents a point. This completes the synthesis. The method is illustrated by a numerical example. The extension of the method to include mutual inductance is attempted and it is compared with the continuous rationalfraction method. There are 20 figures and 2 tables.

ASSOCIATION:

Výzkumný ústav pro sdělovací techniku A.S. Popova, Praha (A.S. Popov Telecommunications Research Institute, Prague) October 27, 1962

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MUCHON NUTHOR:

Vasyl'yev, V.I. (Kiev)

TITLE:

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Investigation of steady-state and dynamic regimes of differential extremal systems

PERIODIC.AL: Avtomatyka, no. 5, 1962, 27-34

TEXT: The author analyses theoretically the performance of two differential extremal system circuits, one utilizing the principle of deformation of the extremum characteristic and the other in which the object to be controlled is represented by an analog having a linear component with inertia and a nonlinear inertialess element. The analysis shows that both systems operate without hunting oscillations, the first of the two systems being absolutely immune with respect to disturbances which shift the extremal characteristic of the controlled object along the vertical axis. The first system should be used with objects with small disturbances. Since in the most general case it maintains the object away from the extremum, it is inaccurate. The system with analogs is shown to be the most

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accurate. It can be used in all cases when an analog of the controlled object can be realized. Both systems are shown to be affected by changes in the gain of amplifiers. When the gain of amplifiers is not stable, the error will depend also on the changes in the slope of characteristics. Both systems are stated to be valid for any shape of the extremum characteristic. The author analyzes their operation in the presence of both linearly varying and stepped disturbances. The second system was applied successfully to the control of chemical purification of water of the Mins'kaya TEU, -2 (TYeTs-2). There are 5 figures.

SUBMITTED: February 16, 1962

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	Chemical Abst. Vol. 48 Apr. 10, 1954 Sugar, Starch, and Cums		Ú.				
l I		Methodical washing of filter presses. M. (1) Vasynin, Vakharnayu Prom. 27, No. 0, 32–3(1)53). Description and ketch of a mechanized method for washing filter-press take are described. V. B. Baikow.					
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CONTRACTOR STREET IN THE STREET i el terre a contractar el con UASYN FINSKiy, B.H. AID Nr. 983-1 5 June STRUCTURE OF TANTALUM AT HIGH TEMPERATURES (USSR) Amonenko, V. M., B. M. Vasyntinskiy, G. N. Kartmazov, Yu. N. Smirnov, and V. A. Finkel'. Fizika metallov i . metallovedeniye, v. 15, no. 3, S/126/63/015/003/016/025 Mar 1963, 444-449. The Physicotechnical Institute, Academy of Sciences USSR, has studied the structure of Ta at 20 to 2600°C and the effect of vacuum heat treatment on the structure and properties. X-ray diffraction patterns obtained with a hightemperature x-ray camera in a vacuum of 3.10⁻⁵ mm Hg showed that the bodycentered cubic structure of Ta remains unchanged at all temperatures tested. The lattice parameter "a" increases from ~3. 3030 kX at 20°C to 3. 3750 kX at 2600°C. The coefficient of thermal expansion was calculated from "a." Annealing in a vacuum of 3.10⁻⁵ to 1.10⁻³ mm Hg at temperatures up to 2200°C was found to increase "a" and microhardness. Curves of these two parameters versus temperature show maxima under all conditions tested; their magnitude increases with increasing pressure. With a constant annealing Card 1/22019年2月1日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日,1月1日日

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STRUCTURE OF TANTALUM [Cont'd]

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time of 10 min these maxima occur at 1600° to 1800°C under all pressures tested. With prolonged annealing the maxima are shifted toward lower temperatures, occurring at ~1500-1600°C with annealing for 6 hrs. Both phenomena are attributed to gas absorption by the Ta. X-ray diffraction patterns of a specimen annealed for 15 hrs showed the lines of two high-temperature modifications of Ta₂O₅ at 1460 to 1490°C and 1500 to 1540°C, [ND]

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Narrow-draw cutting in the mines of the Soviet Union (Donets Basin). Nauch. rab. stud. GNSO MGI no.7:41-46 1959. (MIRA 14:5) (Donets Basin--Coal mines and mining)

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TO THE PERSON SERVICE SERVICE SERVICES AND ADDRESS OF A DESCRIPTION OF A D SHEVELEV, B.N.; VASYUCHKOV, Yu.F., gornyy inzh. Fighting to lower coal costs. Ugol' 36 no.3:45-47 Mr '61. (MIRA 14:5) 1. Nashal'nik shakhty No.32 kombinata Vorkutugol' (for Shevelev). (Coal mines and mining-Costs)

CIA-RDP86-00513R001859020011-4

s/0096/64/000/001/0013/0018 ACCESSION NR: AP4012337 AUTHORS: Kontorovskiy, A. Z. (Candidate of technical sciences); Vasyuchkova, K. I. (Engineer); Kuznetsova, T. P. (Engineer) TITLE: Resistance to scaling of boiler steel SOURCE: Teploenergetika, no. 1, 1964, 13-18 TOPIC TACS: resistance to scaling, heating cycle, corrosiveness, furnace gas, microstructure, chromium steel, steel 12KhlMF, steel 15KhlM1F, steel 12Kh2MFB, steel 12Kh2MFSR, steel EI756, steel 1Kh12V2MF ABSTRACT: The resistance to scaling of 12Kh1MF, 15Kh1M1F, 12Kh2MFSR, and EI756, 1Kh12V2MF steel specimens (tubes and rings) used in boilers was investigated in great detail, and the composition of each steel was tabulated. The specimens were subjected to cycles of heating (1000, 3000, and 5000 hrs duration) and cooling (for 125 hrs) all done in air. The specimens were weighed before and after each experiment, and the depth of scaling was measured. The results show an intensity of scaling higher than those used in the Leningrad Heat Power Machine Design Congress of 1958. This difference is attributed to the inherently higher corrosiveness of Card 1/2 市民市民国家的 N. A. R. B. Distant は意思に行きたい。

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	air as compared to a furnace gas. The scales had the same multilayer structures the hardness and microstructure of which were analyzed closely. The external layers were primarily Fe_2O_3 (0.01 to 0.04 mm thick) followed by thinner layers of	-
	FeO and Fe304. The most sensitive steel to cooling was type 12Kh2MFB. The chro	
	mium steel EI756 showed the greatest amount of scaling, amounting to a thickness 0.2 mm during a 5000-hr treatment at a mass loss rate of 0.007 mm/year. The	01
	Millin steel K1/50 showed the greatest amount of scaling, amounting to a thickness O.2 mm during a 5000-hr treatment at a mass loss rate of O.OU7 mm/year. The corresponding thicknesses in 12Kh1MF, 15Kh1M1F, and 12Kh2MFSR steels were 1.55, and O.8 mm respectively, but the oxidation rates with these steels were 8 to 10 times as high as in the EI756 steel. It is concluded that the 5000-10 000-hr te suggested by GOST 6130-52 standards are insufficient and that test durations she last at least as long as 10 000 hrs. Orig. art. has: 7 figures and 5 tables.	1.0
	corresponding thicknesses in 12KhlMF, 15KhlM1F, and 12Kh2MFSR steels were 1.55, and 0.8 mm respectively, but the oxidation rates with these steels were 8 to 10 times as high as in the EI756 steel. It is concluded that the 5000-10 000-hr te suggested by GOST 6130-52 standards are insufficient and that test durations sho	1.0
	corresponding thicknesses in 12KhlMF, 15KhlM1F, and 12Kh2MFSR steels were 1.55, and 0.8 mm respectively, but the oxidation rates with these steels were 8 to 10 times as high as in the EI756 steel. It is concluded that the 5000-10 000-hr te suggested by GOST 6130-52 standards are insufficient and that test durations sho last at least as long as 10 000 hrs. Orig. art. has: 7 figures and 5 tables.	1.0 esta
-	O.2 mm during a 5000-hr treatment at a mass loss rate of 0.047 mm/year. The corresponding thicknesses in 12KhlMF, 15KhlM1F, and 12Kh2MFSR steels were 1.55, and 0.8 mm respectively, but the oxidation rates with these steels were 8 to 10 times as high as in the EI756 steel. It is concluded that the 5000-10 000-hr te suggested by GOST 6130-52 standards are insufficient and that test durations sho last at least as long as 10 000 hrs. Orig. art. has: 7 figures and 5 tables. ASSOCIATION: Orgenergostroy; MOTeKTI; VTI	1.0 este ould



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s/0096/64/000/004/0034/0037 ACCESSION NR: AP4025420 AUTHORS: Kontorovskiy, A. Z. (Candidate of technical sciences); Vasyuchkova, K. I. (Engineer); Kuznetsova, T. P. (Engineer) TITLE: Aging certain types of boiler steel : SOURCE: Teploenergetika, no. 4, 1964, 34-37 TOPIC TAGS: steel, boiler steel, aging, aging boiler plate, 12% himr steel, 12Kh2MFB steel, 12Kh2MFSR steel, 15Kh1M1F steel, K1756 steel, steel strength, ordered metal, disordered metal, holding time, metal structure stability, carbide phase variation, plasticity, impact strength, dispersion hardening ABSTRACT: The variations in the structure and physical properties of boiler steals during aging with relation to holding time at high temperatures (600-650C) were studied. The metals tested were: 12KhlMF, 12Kh2MFB, 12Kh2MFB, 15KhlMlF, and EI756 steels. Experimental results showed that strength of all the types investigated was impaired by the increase in aging temperature and in the holding time. This effect was more pronounced during the first 500-1000 hours of holding. The authors explain the causes for the variation in metal hardness, plasticity, tensile Card 1/2

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elements redistribution in 12KhIMF, 15KhIMIF and EI75 while the response of ste variation in physical moon	gth under thermal treatments formation. They emphasize t the solid solution and the 6 showed a noticeable weaken els 12Kh2MFB and 12Kh2MFSR w erties of steel EI756 will r Drig. art. has: 2 tables and	the effect of the alloying carbide phase. Steels ling in the process of aging, as insignificant. The	,
ASSOCIATION: none			
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18(5)	SV/118-59-1-13/16
AUTHOR:	Vasyuk, A.S., Engineer
TITLE:	A Rotor Excavator with Linked Projecting Conveyers (Rotornyy ekskavator s sochlenennymi zydayushchimi konveyerami)
PERIODICAL:	Mekhanizatsiya i Avtomatizatsiya Proizvodstva, 1959, Nr 1, pp 50-52 (USSR)
ABSTRACT:	The author enumerates the deficiences in rotor excava- tors RPM-1 and RPM-2 (inability to load rock onto dump cars, shaking rock off the conveyers, etc.) and des- cribes his design, a modified version of the rotor ex- cavator RPM-1 built by the Suvorovskoye Rudoupravleniye (Suvorov Ore Administration) of the Tulskiy Sovnarkhoz (Tula Council of the National Economy) (Figure 1). It can convey excavated rock to and dump it at any desired point within the working radius of the excavator, and can rotate without inerrupting the excavating-conveying
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A Rotor Excavator with Linked Projecting Conveyers

process. The new excavator's technical features include: Capacity up to 450m² of rock per hour; diameter of the rotor 4.5 m; number of buckets 10; volumetric capacity of bucket 150 liters; speed of rotor rotation 4.8 revolutions per minute; width of conveyer belts 1 m; speed of conveyer belts 2.2 m/sec; radius of cuttingin-12 m; maximum in height of cutting-in-12m, total electric capacity 207 kw; weight 142tons; ground unit pressure 1.2 kg/cm². Testing on frozen ground showed, that the new excavator reacted well, yet lowered production to 55%. The main flaw in the excavator's design as established by tests on sandy ground in winter is the quick abrasive wear of the bucket's teeth. There are 4 diagrams.

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DEFENSIVE FRANK STREAM REPORTS

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201/131-59-3-4/18 18(5) Vasyuk, A. S. AUTHOR: Shovel Dredge With Connected Distribution Band Conveyors (Rotornyy ekskavator s sochlenennym razdatochnym konveyyerom) TITLE: Ogneupory, 1959, Nr 3, pp 112-114 (U33R) PERIODICAL: The shovel dredge loading machines RPM-1 and RPM-2 are used in mining for prospecting and search work in combination with band ABSTRACT: conveyors. Their capacity is, however, reduced because of the uncomplete way of surrender of the material from the shovel dredge to the band conveyor, Apart from this the band conveyor is connected with the dredge platform in such a way that in the case the platform rotates also the band conveyor rotates and thus leaves the given point. Upon the request by the autnor of the present abstract in the Suvorovskoye rudoupravleniye (Suvorov Ore Pit Administration) a shovel dredge with two connected band conveyors (Fig 1) was constructed on the basis of the RPM-1 machine which facilitates the transport of the material to any point. The material is taken from the shovel dradge into the intermediary band conveyor and from there into the loading band conveyor. The tilting device of the loading band conveyor is shown on figure 2 and described in detail. The tilting of the band conveyor may be performed during the operation Card 1/2NEW YORKSTON STREET

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SOV/131-59-3-4/16 Shovel Dredge With Connected Distribution Band Conveyors of the shovel dredge. Apart from this in connection with the modernization of the RPM-1 machine a number of improvements were carried out. The re-built dredge supplies up to 1560 m³ rock per working shift and proved to be efficient in practice. Finally, its technical data are given .- There are 3 figures and 1 table. ASSOCIATION: Suvorovskoye rudoupravleniye (Suvorov Ore Pit Administration) Card 2/2aire Trimbinger a

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VASYUK, A.S.

Device for mold changing on friction presses. Ogneupory 28 no.10:479 ¹63. (MIRA 16:11)

1. Shamotnyy zavod "Krasnaya Zvezda."

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859020011-4 A THE REPORT OF THE PROPERTY AND THE PRO VASYUN,A.S. A double support track mover. Ogneupory 17 no.5:231-232 Hy 152. (MIRA 8:9) (Mine railroads)

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 VASIUK, A. Ye.
 Subcutaneous traumatic rupture of the retroperitoneal segment of the duodenum. Khirurgia no.6:123-124 Je '62. (MIRA 15:7)
 Is khirurgioheskogo otdeleniya (sav. A. Ye. Vasyuk) Kostopol'skoy rayonnoy bol'nitsy (glavnyy vrach S. Ya. Gormakh) Rovenskoy oblasti.
 (DUODENUM-KUPTURE)

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Repeated perforations of gastric and duodenal ulcers. Sov. med. 26 no.11:114 Nº62 (MIRA 17:3:

1. Iz khirurgicheskogo otdeleniya Kostropol'skoy rayonnoy bol'nitsy Rovenskoy oblasti (glavnyy vrach S. Ya. Gormakh).

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-IN-2022/18/642 MARTINE BEDIEVEN AND

SOV/142-58-5-3/23 9(2) Vasyuk, G.I. AUTHOR: Nonlinear Distortion in Broad-Band Push-Pull Class B Amplifiers Izvestiya vysshikh uchebnykh zavedeniy, radiotekhnika, 1958, Nr 5, TITLE: PERIODICAL: pp 538-543 (USSR) It is shown, that the output power of broad-band push-pull amplifiers, working with cutting-off anode-current, does accompany ABSTRACT: non-linear distortions. These originate in a sudden rise of the 2nd harmonic voltage on the anode tubes, registrations of the circuits resonance characteristics, generating within the tubes plate circuit out of the capacitance and the inductance of the output transformer. Tubes with high inner resistances are used. High inner resistance means in this case, that the resistance Ri is much higher than the terminal impedance of the loaded transformer. This proportion is realized for the amplifier on pentodes and tetrodes. The appearance of asymetry between the seperate elements of the scheme on non-linear distortions on the amplifier output, with a registration of only the 2nd harmonic is shown. Two cases are described: 1) The asymetry appears only in unequal Card 1/2CONTRACTOR CONTRACTOR OF A CARDEN

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Nonlinear Distortion in Broad-Band Push-Pull Class A Amplifiers

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amplitudes on the terminals input voltage; 2) $W_1 \neq W_2$; $\mathcal{S}_{e1} \neq$ \mathcal{S}_{e2} (equation (3),(4)). The cause of distortion lies in the appearance of parasite circuits within the anode circuit, which consists of the terminals capacitance and the induction of the dispersion between the halves of the output transformers primary winding. With inductive loads, the nonlinear distortion increases somewhat, with a capacitive load it decreases. In audiofrequency amplifiers, the described phenomena do not appear. Quasitransient phenomena, by A.M. Pisarevskiy investigated with an active load, do not reach remarkable quantities either. The article is recommended by the Kafedra radiopriyemnykh ustroystv Kiyevskogo ordena Lenina politekhnicheskogo instituta (Chair of Radio Receiving Devices of the Kiyev Politechnical Institute of the Order of Linin). There are 3 block diagrams, 2 graphs, 5 equations and 2 references, 1 of which is Soviet, and 1 English.

Card 2/2

SUBMITTED: February 17, 1958

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ACC NR:	AP5020928		SOURCE CODE	: UR/0142/65/00	08/003/0360/0362
AUTHOR:	Vollerner, N.	F. (Prof.); Vasy	ruk, G. I.; Ful	ks, L. B.	
DRG: noi			na privera di C.		37
TITLE: 7	The problem of	a probing pulse	with a narrow	spectrum	8
		hnika, v. 8, no.			
BSTRACT: ulses wi etween e ulse sha adical a wo cases idely di id there ie second	To achieve hi ith the narrowes cho-signal atte pe. Developmen literation of pa are considered ffering echo cr fore normalizat	e, pulse shape, ghest velocity to possible band enuation N and 1 of quantitation rameters of the the first invoss sections (the ion of pulses of gh discrimination	resolution (mi width are requ imiting ΔV is ve relationshi radar other t volves discrim his requires r	nimum ΔV) in a ired. The dire used in selection ps or examination han pulse shape ination between esolution of sig	ct relationship on of the best on of cases of is avoided. objects with gnal "tails"
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concentration the different pulse. In the can be used	n or ener t pulse s the second in the ev one advant	case the l rent of low cages for h	the first ca bell-shaped values of igh values	ase shows pulse is N but does of N but i	superiority best. The not reduce s not very	of the $\sin x/x$ rectangular puls ΔV . The $\sin x$ promising in a t choice for 10	se /x real w ΔV,
but in prac	The rigor , Svyaz'i: e type of	rectangular rous treatm zdat, 1963] treatment	opulse is s ent of M. S is similar of the seco	ufficient] . Gurevict to the find case.	ly effective [Gurevich, irst case an Orig. art.	And requires s M. S., Spektry d indicates the has: 2 figures	ra- need

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PERTSEVA, A.N.; VASYUK, L.F.

The ratio among various groups of micro-organisms in the root system of flax and buckwheat during different developmental stages following application of the AMB bacterial fertilizer. Trudy Vses. inst. sel'khoz. mikrobiol. no.14:263-274 '58. (MIRA 15:4) (Soil inoculation) (Flax) (Buckwheat)

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VASYUK, V.N., red.
[Sand-lime and gypsum materials and products] Silikatnye i
gipsovye materialy i izdelia. Kiev, Gonstroiizdat USSR,
1964. 104 p. (MIRA 17:5)
1. Gosudarstvennyy nauchno-issledovatel'skiy institut
stroitel'nykh materialov i izdeliy.

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GORPACH, S.T., dorozhnyy master; VASTUK, V.P., dorozhnyy master

Pay more attention to track in railroad yards. Put' i put.khoz. no.11:29 N '58. (MIRA 11:12)

1. Darnitskaya distantsiya puti Yugo-Zapadnoy dorogi, stantsiya Darnitsa. (Railroads--Yards) (Railroads--Track)

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AUTHOR :	Bertinov	44.55 A. I. 1 But	44.55 D. A.; Vasyu	581 <i>14,</i> <u>kevich, P.</u> V.	(Kulugin, V	14.55 52	,
TITLE:		channels for		of a weakly)
SOURCE :	Magnitna	va gidrodinami	lka, no. 2, 1	965, 55-66	in an		
TOPIC T	AGS: MHD	flow, turbulen	nt flow, supe	rsonic flow, s	ubsonic flow	· 1	
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	ACC NR: AP6008830 AUTHOR: Bertinoy, A. L. (Moscov	SOURCE CODE: UR/0294/66/	004/001/0066/0672			
	Vasyukevich, P. V. (Moscow)	ing buy be say suiteding yearing	asyunovicity P. V.			
	ORG: None	a and a second secon	, ,			
	TITLE: The approximate computation in a vortex magnetohydrodynamic f	tion of the variation in the electr	ic conductivity of a gas			
	SOURCE: Teplofizika vysokikh ten	nperatur, v. 4, no. 1, 1966, 66-	72			
	TOPIC TAGS: MHD flow, electric					
	ABSTRACT: A majority of articles devoted to the investigation of vortex MHD flow average out gas conductivity and assume it to be constant. It is known, however, that the conduct-					
	ivity of a weakly ionized gas depends on pressure and to a considerable degree on tempera- ture which may vary substantially along the radius during axisymmetric twisting of a con- ducting gas in an axial magnetic field. The present authors perform an analysis of vortex					
· •	MHD flow with the assumption that conductivity depends on temperature as a power function. An ideal conducting gas is studied with part of the total enthalpy being converted to electric					
	power. The authors demonstrate the conductivity on the basic parameter	he influence of taking into account	t the variations of			
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VASYUKEVICH, V.A., inzh.; GONCHAROV, S.F., kand.tekhn.nauk

Spectrum analysis method and preliminary results of its application in the investigation of diesel lubricants. Trudy TSNII MPS no.251:4-25 163. (MIRA 16:ó) (Diesel locomotives--Lubrication) (Spectrum analysis)

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•	VASYUKHINA, L.V.; YAKUBOVSKAYA, G.V.
	Variability of different strains of plague and pseudotuberculosis bacilli kept under laboratory conditions. Izv. Irk.gos.protivochum. inst. 12:3-10 '54. (MIRA 10:12) (PASTEURELLA PESTIS) (PASTEURELLA PSEUDOTUBERCULOSIS)
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VASYUKHINA, L. V., Cand Mf Med Sci -- (diss) "Influence of the various conditions in determining the preservation of the basic characteristics of plague microbes." Saratov, 1957, 15 pp (State Scientific Research Institute of Microbiology and Epidemiology of South Eastern USSR "Microbe") 200 copies (KL, 32-57, 97)

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VADYUAHINA, L. V.

VASYUKHINA, L. V. -- "The Retention of the Specific Properties of the Causative Agent of Plague by the Method of Vacuum-Freeze Drying." Min Health USSR. Irkutsk State Science Research Anti-Plague Institute of Siberia and the Far East. Irkutsk, 1955. (Dissertation for the Degree of Candidate in Medical Sciences.)

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So; Knishaya Letopis' No 3, 1956

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DCMARADSKIY, I.V.; YAROMYUK, G.A.; VASYUKHINA, L.V.; KOROTATIVA, A.V. Coagulation of blood plasma by plague and pseudotuberculosis microbes. Bul. eksp. biol. i med. 56 no.7:79-82 Jl'63 (MIRA 17:3) 1. Iz Irkutskogo gosudarstvennogo nauchmo-issledovatel'skogo protivochumnogo instituta Sibiri i Dal'nego Vostoka (dir. doktor med. nauk prof. I.V. Domaradskiy). Predstavlena deystvitel'nym chlenom ANN SSSR N.N. Zhukovym- Verezimikovym.

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KOROBKOV, G.G.; VASYUKHINA, L.V.

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Effect of avirulent plague microbes on the resistance of the body to infection during their simultaneous introduction with virulent ones. Zhur, mikrobiol., epid. i immun. 42 no.11: 140-141 N '65. (MIRA 18:12)

1. Irkutskiy nauchno-issledovatel'skiy protivochumnyy institut. Submitted March 26, 1965.

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859020011-4

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ACC NR: AP6019124 SOURCE CODE: UR/0016/65/000/011/0140/0141	
AUTHOR: Korobkov, G.G.: Vasyukhina, L.V.	
OHG: <u>Irkutsk Scientific Research Antiplague Institute (Irkutskiy nauchno-</u> issledovatel'skiy protivochumnyy institut)	
TITLE: Effect of avirulent <u>plague</u> microorganisms injected simultaneously with virulent microorganisms on resistance to infection	
SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1965, 140-141	
ABSTRACT: Higushi and Smith (1961) showed that avirulent mutants regularly arise in a plague culture. Therefore, most plague cultures consist of both virulent and aviru- lent strains. The authors of this article undertook to determine whether the presence of avirulent microorganisms has any effect on the development of the infection pro- cess. Five series of experiments revealed that avirulent microorganisms (live and cilled) injected simultaneously with virulent ones have an anti-infectious (protective action regardless of the injection site. The authors attribute this effect to the capacity of avirulent microorganisms to intensify the phagocytic activity of cells of the reticuloendothelial system. It is comparable to the phenotenon of infection of unimals with a large dose of a strain possessing unstable virulence wherein there is no direct relationship between the number of microorganisms injected and the death of the animals. (JPRS)	
UB CODE: 06 / SUBM DATE: 26Mar65 ard 1/1 2 UDC: 616.981.452-097.3-02:615.371.576.851.45.097.21	

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MASYUKHNO, A.I. Improving the working conditions. Fut! 1 put.khoz. 7 no.4:36-37 '63. (MIRA 16:3)
1. Nachal'nik Ufimskoy distantsii. (Railroads-Equipment and supplies)

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Potentials for the reduction of labor expenditures. Fut i put. (MIRA 17:6)

1. Nachal'nik Ufimskoy distantsii puti Kuybyshevskoy dorogi.

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NIKITIN, S.O.; PROKHOROV, V.N.; VASYUKINA, P.M.; BAKAYEV, S.M. Drying the base and heating the layers of rolled roofing materials in carrying out roofing work during winter. Rats. i izobr. predl. v stroi. no.2:87-90 '57. (MIRA 1 (MIRA 11:1) (Drying apparatus) (Roofing--Cold weather conditions) ALCONTRACTOR DESCRIPTION र्ग्याक् रेपह

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Experience in joint operations of the Central Office of Technological Information and public organizations. Opyt. rab. po tekh. inform. i prop. no.1:19-20 '63. (MIRA 16:12)

1. Zamestitel' nachal'nika TSentral'nogo byuro tekhnicheskoy informatsii Vladimirskogo soveta narodnogo khozyaystva.

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ACC NRI AT60	34443 (A)	SOURCE CODE: UR/0000/66/000/000/0109/0112
AUTHOR: Raste Vasyukov, G. J	gayev, M. V.; Danil'ch	enko, A. N.; Kashin. V. I.; Zharov, V. M.;
ORG: none		
TITLE Invest	igation of the recryst	allization process in tungsten
	SSR. Institut metallur erties and application	gii. Svoystva i primeneniye zharoprochnykh of heat resistant alloys). Moscow, Izd-vo Nauka,
TOPIC TAGS:	tungsten, metal recryst	tallization
ABSTRACT: The niobium. The a diameter of samples was d first part of (vacuum 10 of 40 minutes	e subject of the invest tungsten billets with 16 mm and were cut in one in a hydraulic pre the samples was sub ⁴ 3 mm Hg) at temperatures After each anneal,	tigation was vacuum melted tungsten, reduced with a diameter of 35 mm were worked down on a lathe to to samples with a height of 39 mm. Upsetting of the ss with a degree of reduction of about 40%. The cted to stepwise annealing in a vacuum furnace of 1250, 1400, 1600, 1800, and 2000° for a period the samples were cooled in the furnace to 20°; and examined for degree of recrystallization. The three dimensional diagram of the recrystallization
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Y Y Y - 120 P - 1 AND SELECTION STATES THE REAL PROPERTY OF ad in the provide the second ACC NRI AT6034443 of the cast structure of tungston. Analysis of the results shows that 100% recrystallization of the cast structure in the samples, deformed by approximately 40% in the temperature interval from 400-1200°, is completed at a stepwise annealing temperature of 2000°. With direct heating (without steps) of the second part of the samples, although complete recrystallization was assured, the boundaries of the old crystals were retained. With annealing temperatures in the interval from 1400-1800°, the cast structure recrystallized partially within the limits of 25-90%. At an annealing temperature of 1250°, the cast structure of the samples deformed by 40% in the temperature interval 200-1250° did not recrystallize. The cast structure, deformed at 200°, did not recrystallize in the temperature interval from 1250-1600°. However, in samples deformed at higher temperatures (800°) partial recrystallization was observed. Orig. art. has: 3 figures and 1 table. SUB CODE: 11/ SUBM DATE: 10 Jun66/ ORIG REF: 003/ OTH REF: 001 Card 2/2

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L 37733-66 EXT(m)/EXP(k)/EXP(t)/EXP(c)/ETI IJP(c) JD/X ACC NR: AP6017104 (A) SOURCE CODE: UR/0226/66/000/001/0050/005A AUTHORS: Burtsev, V. T.; Vasyukov, G. Kh.; Kashin, V. I.; Samarin, A. M. 63 ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii) 63 TITLE: Liberation of gas from tungstem at 2500C SOURCE: Poroshkovaya metallurgiya, no. 1, 1966, 50-54 TOPIC TAGS: tungsten, powder metal, powder metal compaction, powder metal sintering, ABSTRACT: The nature and quantity of gas liberated at 2500C from <u>sintered</u> and vacuum and the experimental installation is presented. The detailed description of the experimental apparatus and procedure is given by V. T. Burtsev, Yu. I. Korbman, and experimental results are presented in graphs and tables (see Fig. 1). Vacuum smelting of tungsten by electron-beam techniques is the most efficient procedure for the removal be subjected to a preliminary degassing treatment in vacuum resistance furnaces.
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記念用 RAMENTI DI SILO NA DALLA DI SATARANA VASYMEN, I. YE. decreasing consumption of cement. brating installation permits use of lean concrete considerably improving strength of concrete. Vi-USSR/Engineering - Construction, delivery of concrete mix and mortar to placing point using vibrating chutes. Method eliminates sepn of concrete mixt during conveying, Docent of Dnepropetrovsk Eng Constr Inst, for Describes method developed by B. S. Dubov, "Installation for Vibrating Conveyance of Con-crete and Mortars," I. Ye. Vasyukov, Engr, Minmashstroy (Min of Mach Bldg) "Byull Stroitel Tekh" No 1, pp 16-18 UNER/Engineering - Construction, Equipment (Contd) Equipment 202155 2021755 Jan 52 ႕ရာ 52

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- 2. USSR (600)

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- 4 . Efficiency, Industrial
- 7. Work experience of the Bureau for Rationalization and Invention of the Ministry of Machine Building Industry. Biul. stroi. t kh. 10 No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, <u>June</u> 1953, Unclassified.

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Best efficiency workers of the Ministry of the Construction Industry of the U.S.S.R. Nov.tekh.i pered.op.v stroi. 18 no.8: (MLRA 9:10) 13-16 Ag. 156.

(Construction workers)

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Automobile trailer used for transportation of large-sized reinforcedconcrete panels. Izobr. v SSSR 2 no.1:17-18 Ja '57. (MIRA 10:4) (Truck trailers)





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Dump truck semi-trailer with a saddle-type mounting. Mont. i spets. rab. v stroi. 24 no.1:30-31 Ja ¹62. (MIRA 15:7) (Dump trucks)

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VASYUKOV, I.Ye., inzh. Inventions and efficiency promoters' suggestions. Mont. i spets. rab. v stroi. 24 no.4:25-27 Ap '62. (MIRA 15:7) (Building-Tools and implements)

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VASYUKOV, İ.Te., inzh. Restoring cylinder sleeves : engines. Munt. i spets. rab. v stroi. 24 no.5126 My '62. (Cylinders)

VASYUKOV, I.Ye., inzh.

Pyrotechnical relay for controlling the delay of the explosion of a detonating fuse. Mont. i spets. rab. v stroi. 24 no.8: 27 Ag '62. (MIRA 15:8)

(Blasting)

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Crane for lifting loads and putting them through window or door apertures. Mont. i spets. rab. v stroi. 24 no.8:27-28 Ag '62. (MIRA 15:8)

(Cranes, derricks, etc.)

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