

```
AKINOVA, R.H.; KRIVORUCHKO, R.A.

Qualities of erythrocytes preserved in alcohol-glucose-citrate blood.
Problegemat. i perel.krovi l no.2:45-48 Mr-Ap '56. (MIRA 10:1)

1. Is L'vovskogo nauchno-icsledovatel'skogo instituta perelivaniya krovi (dir. - dotsent D.G.Petrov)

(BLOOD BANKS,

erythrocyte mass preserv. in slochol-glucose-citrate blood)

(ALCOHOL, ETHIL alcohol-glucose-citrate solution for erythrocyte mass preserv.)

(GLUCOSE same)

(GITCATES same)
```

AKIVUR UCE 19 h

"Transfusion of Alcohol-Glucose-Citrate Blood in the System of Complex Treatment of Patients With Suppurative and Septic Diseases," by R. A. Krivoruchko, L'vov Scientific Research Institute of Blood Transfusion (director, Docent D. G. Petrov), Problemy Gematologii i Perelivaniya Krovi, Vol 2, No 2, Mar/Apr 57. pp 49-53

Transfusion of alcohol-glucose-citrate blood is effective in the complex treatment of patients affected with suppurative and septic processes. One of the advantages of alcohol-glucose-citrate-blood transfusion is the reduced frequency of posttransfusion reactions. Transfusion of alcoholglucose-citrate-blood contributes to the building up of immunobiological forces in the organism, normalization of the composition of the peripheral blood, activation of phagocytosis, and a decrease of the virulence of microflora. Transfusion of the above blood does not disturb renal function. (U)

54M. 1360

grander achte, a. A. AKIMOVA, R.H.; KRIVORUCHKO, R.A. Two-stage method of preparing an alcohol-glucose-sucrose-citrate suspension of erythrocytes. Problemet. i perelektori 2 no:5: 51-55 8-0 157. 1. Iz L'vovskogo nauchno-issledovatel'skogo instituta perelivaniya (BLOOD TRANSFUSION alcohol-glucose-saccharose-cytrate suspension of erythrocytes, two-stage method for prep.)

KRIVORUCHKO, R. A., Cand Med Sci -- (diss) "Transfusion of alcohol-glucose-citrated blood in the system of combined treatment of patients with suppurative and septic diseases."

L'vov,1958. 16 pp (L'vov State Med Inst) 200 copies.

(KL, 12-58, 102)

-93-

YAYES, S.B.; KUCHUK, A.P.; KRIVORUCHKO, R.A.; SHIMANSKAYA, B.M.

Transfusion of blood preserved with cation exchangers and its erythrocyte mass in hypoplastic states. Sbor. trud. L'vov. nauch.-issl. inst. perel. krovi i neotlozh. khir. no.4: 155-161 '60 (MIRA 16:12)

YAYES, S.B.; NOVIKOVA-DANTSIGER, T.I.; AKIMOVA, R.N.; KRIVORUCHKO, R.A.

State of hemopoiesis and gases of the blood in transfusions of blood preserved with cation exchangers following hemorrhages. Sbor. trud. Livov. nauch.-issl. inst. perel. krovi i neotlozh. khir.no.4:168-176 60 (MIRA 16:12)

PETROV, D.G., dotsent; KRIVORUCHKO, R.A.; TURCHIN, V.L.; YEDKINA, V.D.

Centralized supply of flasks with factory produced blood preservatives. Problegematei perelektrovi no.7:50-53 161.

1. Is L'vovskogo nauchno-issledovatel'skogo instituta perolivaniya krovi (dir. - dotsent D.G. Petrov). (BLOOD--COLLECTION AND PRESERVATION)

PETROV, D.G., dctsent; KRIVORUCHKO, R.A.; MARUSENKO, V.I.

Method for individual bacteriological sterility control of preserved blood. Probl. gemat. i perel. krovi no.10:58-60 62. (MIRA 17:12)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta perelivaniya krovi (direktor - dotsent D.G. Petrov).

KRIVORUCHKO, R.A.

Amino acid composition of a placenta hydrolysate. Gemat. i perel. krowl 1:79-R2 *65. (MIRA 18:10)

1. I'vovskiy institut peralivaniya krovi.

ACCESSION NR: AT4036059

8/2781/63/000/003/0199/0206

AUTHORS: Volkov, Ya. F.; Tolok, V. T.; Kriyoruchko, S. M.

TITLE: Plasma of Theta pinch in a magnetic grid

SOURCE: Konferentsiya po fizike plazmy* i problemam upravlyayemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy* i problemy* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady* konferentsii, no. 3. Kiev, Izd-vo AN UkrSSR, 1963, 199-206

TOPIC TAGS: plasma pinch, plasma confinement, magnetic mirror, plasma stability, plasma decay, plasma physics

ABSTRACT: Experiments were set up to ascertain the confining ability of a magnetic grid without a longitudinal field, where the plasma is injected from the ends of the chamber. Another purpose of the experiment was to compare the stability and cleanliness of a

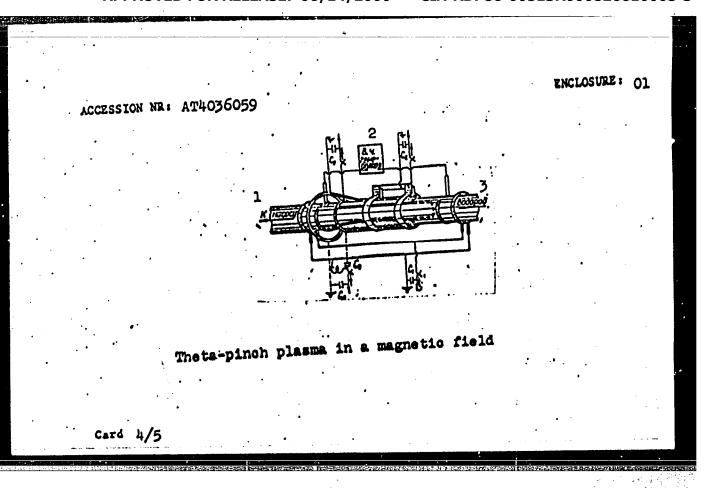
Card 1/5

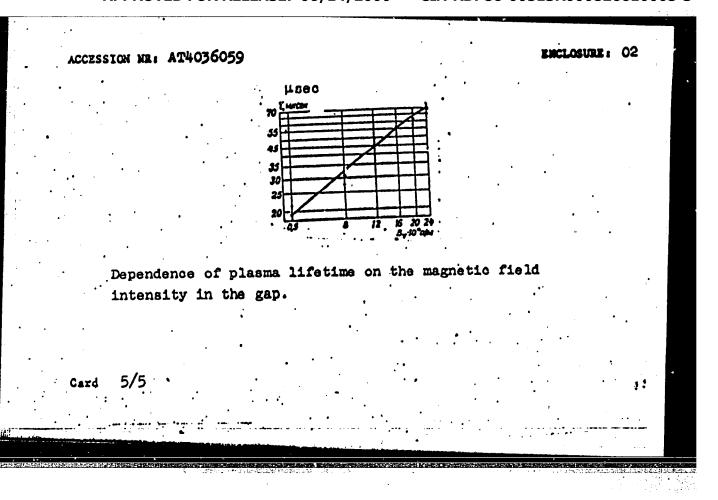
ACCESSION NR: AT4036059

Θ-pinch plasma with a peripheral field and without it. The experimental setup and the procedure are described. Measurement of the lifetime of the plasma with density above 6 x 10^{13} cm⁻³, and of the intensity of the peripheral field B between neighboring conductors at zero longitudinal field, made at a constant pressure of 13.3 n/m², has shown that the confinement time increases from 20 to 70 microseconds as the field is increased from 0.5 to 24 x 10^4 A/m. The existence is proportional to $B_{\phi}^{2/3}$. Superposition of the field of the magnetic grid on the Θ pinch apparently decreases the instability; the particles are lost predominantly through the magnetic gaps. The amount of impurity (from the walls) in the discharge decreases with increasing B_φ, and the amount of absorbed hydrogen released from the walls also increases. It is pointed out that the results of these experiments are still preliminary, in view of the small diameter of the chamber and the small values of the magnetic field. Orig. art. has: 6 figures.

Card 2/5

÷.	ACCE	ssion .	nr: at	4036059		* * * * * * * * * * * * * * * * * * *	- 		**** ***		•	•
2	ASSC	CIATIO	N: Non	•			•	•		·	Ð	
ź	SUBM	itted:	. 00		DA	TE ACQ:	2	lMay64		ENCL:	02	
	SUB	CODE:	ME	• *	NR	REP SO	V:	005		OTHER:	003	•
•	. •	•		: ,	:•					•		f .
		· ·			•	•	•	•	·		•	•
	ard	3/5		:								
<u></u>					• • • • · · · ·					 		





VOLKOV, Ya.F.; TOLOK, V.T.; KRIVORUCHKO, S.M.

O-pinch plasma in a magnetic net. Zhur. tekh. fiz. 33 no.9:1093-1097 S '63. (MIRA 16:11)

KRIVORUCHKO, S.S.; VIROZUB, Ye.V., otvetstvennyy redaktor; ANDREYEV, S.P., tekhnicheskiy redaktor.

[Coke oven mechanic] Mashinist koksovykh pechei. 2-e izd. Khar'kov, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 256 p.

(Coke industry)

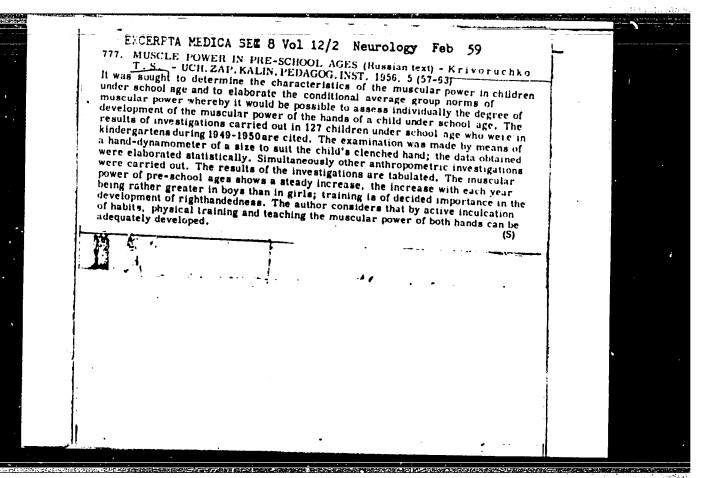
(Coke industry)

KRIVORUCHKO, Semen Semenovich; DORFMAN, G.A., otv. red.; KAMINSKIY, L.N., red. izd-va; ANDREYEV, S.P., tekhn. red.

[Operator of a coke-pushing machine; manual for on-the-job training of qualified workers] Mashinist koksovytalkivatelia; uchebnik dlia podgotovki kvalifitsirovannykh rabochikh na proizvodstve. Khar'kov, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 173 p. (MIRA 14:6) (Coke industry-Equipment and supplies)

KRIVORUCHKO, Semen Semenovich; VOL'FOVSKIY, G.M., otv. red.; LIBERMAN, S.S., red. izd-va; ANDREYEV, S.P., tekhn. red.

[Individual and crew training of the mason in the refractory laying of coke ovens] Kamenshchik ogneupornoi kladki kokosovykh pechei; dlia individual'no-brigadnogo obucheniia rabochikh. Moskva, Metallurgizdat, 1963. 216 p. (MIRA 16:8) (Coke ovens)



The brigade of Ivan Kramarenko. Stroitel' no.10:6-7 0 '57.

(MIRA 10:11)

(Concrete construction)

(Blast furnaces)

KRIVORUCHKO, V.D.

Determining the speed of erythrocyte sedimentation. Lab. delo 3 no.1:28-29 Ja-F '57 (MLHA 10:4)

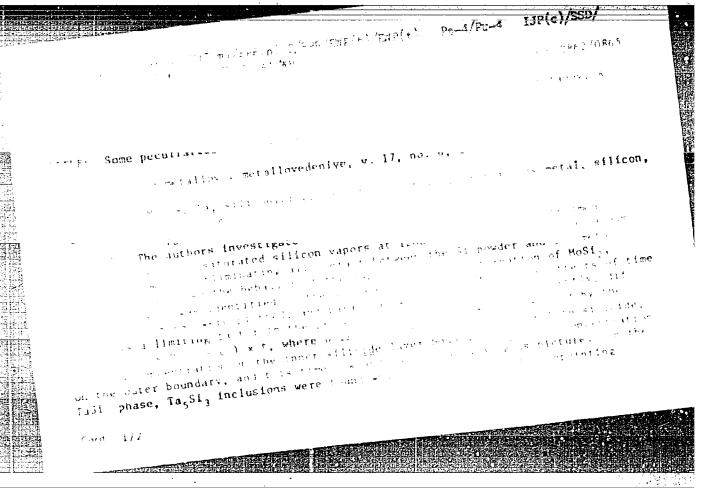
1. Is kafedry vtoroy gospital noy khirurgii Voyenno-morskoy meditsinskoy akademii.
(ERYTHROCYTES)

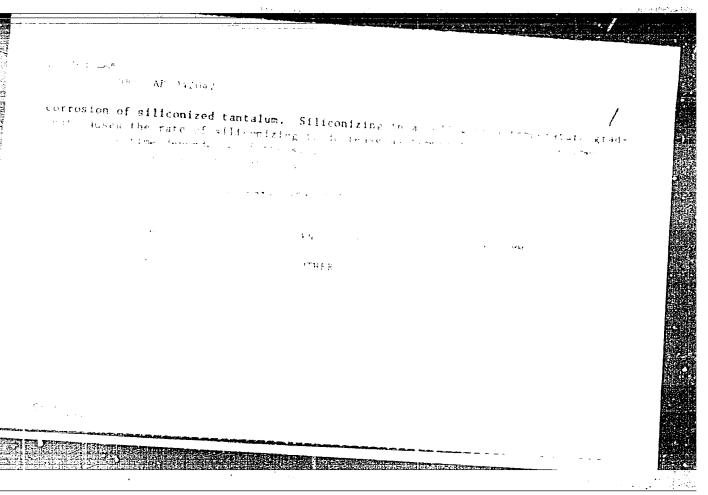
PAVLENKO, P.A.; KRIVORUCHKO, V.D.; KRYNSKAYA, N.B.

Blood sugar in gastric cancer patients. Sov.med. 26 no.8:63-67 Ag '62. (MIRA 15:10)

1. Iz khirurgicheskoy kliniki usovershenstvovaniya vrachey No. 2 (nachal'nik - prof. I.D.Zhitnyuk) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(BLOOD SUGAR) (STOMACH--CANCER)





 $L_{3434-66}$ EMT(m)/ETC/EPF(n)-2/EMG(m)/EWP(t)/EWP(b) JD/Ju/GS ACCESSION NR: AT5024871 UR/0000/65/000/000/0045/0055 82 8+1 AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P; Zmiy, V. I.; Krivoruchko, V. H. On the vacuum siliconizing 44,53 SOURCE: AN UkrSSR. Institut problem materialovedeniya! Diffuzionnyye pokrytiya na metallakh (Diffusion coatings on metals). Kiev, Naukova dumka, 1965, 45-55 TOPIC TAGS: metal diffusion plating, silicon, refractory metal, silicide, ABSTRACT: The kinetics and mechanism of case-formation were investigated for Mo specimens measuring $40 \times 10 \times 1$ mm vacuum-siliconized at $1 \cdot 10^{-5}$ mm Hg by being covered with Si powder and heated at 1200-1350°C. Metallographic and radiographic examination estublished that the formation of molybdenum silicides occurs in the follow-Ho + 81 - Mo381 + 81 - Mo5813 + S1 - HoS12 at the corresponding phase interfaces, i.e. the formation of MoSi2 is due to the Card

L 3434-66

ACCESSION NR: AT5024871

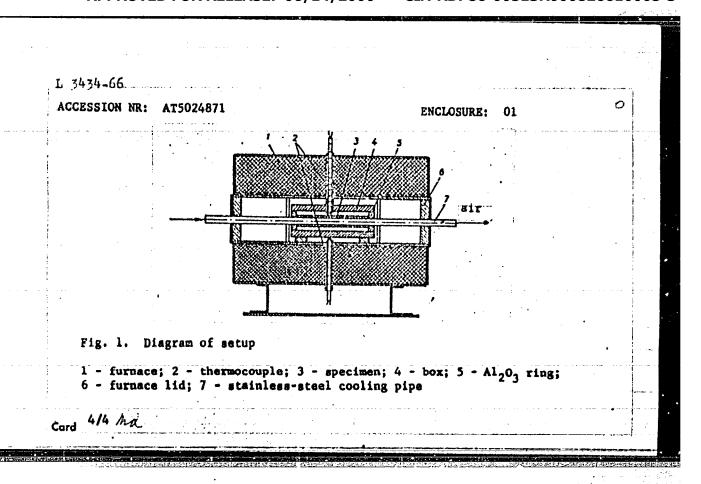
lower silicides. Plotting of the curves of isothermal growth of the layers of MosSi3 and MoSi2 at 1250°C revealed that the increase in their thickness with time follows a parabolic law. This was verified by vacuum-siliconizing specimens of Ho. W, and Ta in saturated Si vapors. The resulting curves also proved to follow a pa-7 rabolic law of growth in layer thickness as a function of time, thus confirming that the diffusion of Si is the determining factor in the rate of siliconizing. On this basis, the activation energies for the diffusion of Si in Mo5Si3 and MoSi₂ were calculated to be $q_{MoSSi} = (126,000 \pm 12,000)$ cal/mole and $q_{MoSi₂}$ (57,600 ± 6,000) cal/mole, respectively. Experiments to determine the effect of the presence of a temperature gradient between the box (1250°C) and the specimen (1200°C) on the growth rate of the MoSi₂ layer (see Fig. 1 of the Enclosure) revealed that, if the metals are siliconized in a box with a temperature gradient, the siliconizing rate decreases with increase in temperature of the specimen and increases with decrease in this temperature as compared with the temperature of the box, while the growth in case-thickness follows a parabolic curve. Orig. art. has: 10 figures.

ASSOCIATION: none

Card

Z

		434. Cess			AT50	E. /)2487	n (* 1		-		•	• •		0	
:	SU	BMIT'	TED:	00				<u>k</u>		ENCL:	01	•	j	•	SUB	CODE:	191,	IB	
	NR	rep	SOV	1 0	06					other:	003	-	- 54	?	•		•		
A.S.	. •																	,	
•	Ċ						•					,		· ;					
;	-				.:		. •					•					•		
***************************************									,	•									
								· •					•						
,																			
	Card	3/4	i	• :		•									•				



IJP(c) JD/JG/GS AUTHOR: Nechipor Mitrofanov, A. 8.	SOURCE CODE: Up enko, Ye. P. (Doctor of technical so politavisev, N. S.	2/0000/65/000/000/0055/0058 Siences) ; Mrivoruchko, V. M.;
ORG: none	The state of the s	And the same and t
TITLE: Siliconi:	ing of refractory metals	74
.707, 77-78	po sharostoykim pokrytiyam. Leningraesistant coatings); trudy seminara.	bontingrad, 13d-vo Rauka,
OPIC TAGS: moly	odenum, tantalum, tungsten, heat difi	Custon
vanov and the aut as to study the in ontrolling the re	netics and the mechanism of siliconicalized conditions (5-50 hrs) were studied (FMM, 17, 6, 862, 1964). The position stages of siliconizing and to the of this complex process. A foil mediameter and 20 mm long) samples of	surpose of the present work
	· · · · · · · · · · · · · · · · · · ·	11 -1

L 15749-66

ACC NR: AT5027941

by powdered (grain size 5-10, silicon, containing (in \$) 99.9206, Si, 0.0009 Fe, 0.02 Al, 0.004 Mg, 0.04 Ca, 0.004 Cu, 0.0012 Zn, 0.0012 Cr, 0.0001 Mn, 0.0013 Sn, and 0.0025 Pb, placed into a molybdenum vessel and carried into a preheated vacuum electrical furnace (1 x 10-5 mm Hg) through a special forechamber. The study was made at 1200, 1250, and 13000, which were registered by a Pt-PtRh thermocouple and an EPP-09-type automatic potentiometer. The increases in weight (in mg km2) of siliconized samples were determined after various exposures (t in minutes). The curves for weight increase versus time were plotted for 1200, 1250, and 13000, and the samples were subjected to an X-ray diffraction study of During siliconising of Mo at 1250C, the Mo₃Si phase was formed first, then (after 25 minutes) the Mo₅Si₅ phase appeared, and the MoSi₂ was formed after 150 minutes. The intervals between the formation of various phases decreased with increasing temperatures: the MosSis phase at 12000 appeared after 110 minutes, at 12500 after 25 minutes, and the MoSi2 phase was formed at 13000 after 5-6 minutes. The process was a similar one during siliconizing of Ta and W except for the fact that some phases, which should have been present according to the phase diagram, did not appear at all. Only TaySi, and TaSi, were formed during siliconizing of Ta (Tay 591 and TaySi were absent); the W5Si, phase appeared first and WSi, later during the siliconizing of W. After establishing the phase equilibrium, the chemical composition of the layer

2/3

parabo.	Lic law. T	The points higher phase he rate of a stages of	siliconiz	ogsi ar ing was	id Nossi	la Phase:	s grew s	ccording	
SUB CO	03: /// s	UBM DATE:	20Ju165/	ORIG R	EF: 00	09/ OTH	REF: 0	01.	
	·• · · · · · · · · ·	e Alanda de							
			agartis A Santa and Angartis		•	•			The Sales
1	tar Marie	100							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i jarota. Usta i kitatura eta	in di sari: China dala						To Maria Lawrence	
1	化热型 人名英格兰	ing programme and the contract of the contract					, , *		gille (d. 1865). Ografiskerende
	t of the special special and a for feature		• 55	• •		• •	• . :	•	
	ere of the second				•	! - 1	• • • • •	****	
	BASSIN'T		•						
	•	. 2					•	•	
	1.	• •	•		•				
3/3 /10									

L 12058-66 EWT (m)/EWP(t)/EWP(b) IJP(c) JD/JG/WB SOURCE CODE: UR/0363/65/001/008/1354/1359 ACC NR: AP6001302 V. I.; Krivoruchko, AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P.; Zmiy, Verkhorooin, L. F.; Aleksandrov, O. M.; Mitrofanov, A. S.; Poltavtšev, N. S. 35 ORG: Physicotechnical Institute. Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut Akademii nauk UkrSSR) TITLE: Study of the oxidation kinetics of molybdenum distilicide at 1500 - 1800C 55, 27 SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 8, 1965, 1354-1359 TOPIC TAGS: molybdenum compound, silicide, oxidation kinetics, silicon dioxide ABSTRACT: Molybdenum distlicide samples (prepared by siliciding molybdenum at 1259, 1300, and 1350C) were oxidized for 10 hr at 1500 and 1600C and for 1 hr at 1700 - 1800C. The oxidation is represented as follows: (1) 5MoSi₂ + 7O₂ - Mo₅Si₃ + 7SiO₂, (2) 2MoSi₂ + 702 -> 2MoO3 + 4SiO2. X-ray analysis shows that reaction (1) predominates over (2); the latter is of decisive importance at the start, when the SiO2 film is formed. The increase in the oxidation rate is related to the orientation of the crystals. The structure of MoSi₂ may be considered to consist of layers of silicon and molybdenum atoms alternating in the direction of axis c; if it is kept in mind that the bonding forces between like atoms in a layer are weaker than the forces between the layers, the layer orientation parallel to the surface (MoSi2 UDC: 546,77'281 **Card** 1/2

L	12	058=	66
1	~~	NID.	A

ACC NR. AP6001302

samples obtained at 1250 and 1300C) will cause a lower oxidation rate than in samples where the layer orientation is perpendicular to the surface (silicides obtained at 1350C). It is concluded that the oxidation rate of MoSi₂ is affected by many factors, but it has not been possible to determine which is the most important one. Orig. art. has: 2 figures.

SUB CODE: 07, 11 / SUBM DATE: 24 May 65 / ORIG REF: 006 / OTH REF: 007

60

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826610005-3

EWT(m)/EWF(t) IJP(c) SOURCE CODE: UR/0363/65/001/008/1360/1363 ACC NR: AF6017688 AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P.; Krivoruchko, V. M.; Zmiy, Mitrofanov, A. S.; Aleksandrov, O. M. ORG: Physicotechnical Institute AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR) TITLE: Oxidation of tungsten disilicide at 1500-1800°C temperatures SOURCE: AN SSSk. 18 Izvestiya 7 Neorganicheskiye materialy, v. 1, no. 8, 1965, 1360-1363 TOPIC TAGS: tungsten compound, silicide, oxidation kinetics, silicon, molybdenum compound ABSTRACT: The authors carried out an investigation of the oxidation kinetics of tungsten disilicide over the temperature range 1500-1800°C. Tungsten of 99.95% purity and 99.99% pure silicon were used for the investigation. The oxidation kinetics curves are parabolas. The effects of preparation temperature and homogenization time of tungsten disilicide specimens on their oxidation rate was studied. It was shown that the oxidation rate of WSi2 at 1500-1700°C is approximately the same as that for MoSi2. It is even somewhat lower than that for MoSi, at 1800°C. Orig. art. has: 2 figures and 2 formulas. [JPRS] SUB CODE: 07 / SUBM DATE: 24May65 / ORIG REF: 003 / OTH REF: 005 Card 1/1546.78 281 UDC:

27458-66 EWI(m)/EWP(t) [JP(c) JD/JG/HB ACC NR: 196017689 SOURCE CODE: UR/0363/65/001/008/1364/1367 AUTHOR: Ivanov, V. Ye.; Nechiporenko, Ye. P.; Krivoruchko, V. M.; Zmiy, V. I.; Mitrofanov, A. S.; Aleksandrov, O. M. ORG: Physicotechnical Institute AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR) TITLE: Oxidation of tantalum disilicide at 1400-1600°C temperatures SOURCE: AN SSSR 18 Izvestiya 27 Neorganicheskiye materialy, v. 1, no. 8, 1965, 1364-1367 TOPIC TAGS: tantalum compound, silicide, oxidation kinetics, silicon ABSTRACT: Up to the present day there are no systematic investigations on the oxidation kinetics of tantalum disilicide at high temporatures. The purpose of the present study was an examination of the oxidation kinetics of tantalum disilicide at 1400-1600°C temporatures. Tantalum of 99.95% purity and 99.99% pure silicon were used for the investigation. The effects of specimen preparation temperature and extent of their homogenization on the exidation rate were established. The exidation of TaSi2 specimens in the initial stage conforms to a straight-line relationship. After some specific period of time a sharp rise in the specimen oxidation rate sets in, which leads to their failure. The fundamental feasibility of raising the tantalum disilicide's heat resistance up to 1600°C was demonstrated. Orig. art. has: 3 figures. [JPRS] SUB CODE: 07 / SUBM DATE: 24May65 / ORIG REF: 002 / OTH REF: 003

L 944,-00 Lnr(a)/Eal(m)/E	IC/Lil (ii/=/ cilo(ii/)	کی د سر تی سب	,, = 1.4,, = t \land	1.2 P , C)	
ACC NR. AP6001239 JD	/JG/WB so	URCE CODE: 1	UR/0363/65/001/0	12/2212/2218	
44.55	44.55				
AUTHOR: Ivanov, V. Ye.; Nec	chiporenko, Ye. P.;	Krivoruchko	, V. M.; Verkhord	obin, L. F.;	
Mitrofanov, A. S.; Poltavtse	* * * * * * * * * * * * * * * * * * * 		74.77	N/23	
ብሂ፡ንና ORG: Physicotechnical Insti	tute Academic of S	nianaaa IfkwCC	ED Vhowboy [Pie	lkoutokha d	
nicheskiv institut Akademii		crences orroc	Y4.55	LAD-LEAD-	
micheskij insvivat Akkacimii	nduk Ukitony		17,))	/ăß	
TITLE: Effect of additives	on the kinetics of	the silicidi	ing of molybdenum	a in a	
vacuum			16 3	7 0	
		•	•		
SOURCE: AN SSSR. Izvestiys	. Neorganicheskiy	e materialy,	v. 1, no. 12, 19	265 ,	
2212-2218	0				
	27,44.55				
TOPIC TAGS: refractory metal, refractory coating, molybdenum, silicon, molybdenum					
disilicide, oxidation resist	ance	-		1	
ARSTRACT: Incomuch so the c	poiting of refronts	me metale wii	th molyhdanum di	ν/ 111010 10 10 10 10 10 10 10 10 10 10 10	
ABSTRACT: Inasmuch as the coating of refractory metals with molybdenum disilicide is known as a prospective method for preventing high-temperature oxidation, the effect					
of some additives on the growth rate and the structure of the silicide layer on molyb-					
denum was studied. It was noted that properties of the disilicide coating (including)					
brittleness and an inadequate thermal stability) may depend on the preparative method					
and on the purity of the initial materials. In this study the silicide layer was					
produced on molybdenum sheet					
by heating at 1250C. Molybdenum of 99.95% purity, 99.999%-pure silicon and commer-					
a + 1/0	100	a cl. (a0a			
Card 1/2	UD	c: 546.281			
 .					
			(d.		

L 9447-66

ACC NRi AP6001239

cial silicons KR-0 and KR-1, 99.0 and 98.0% pure, respectively, were used as initial materials for siliciding cells. The growth rate, structure and phase composition of the coatings obtained were studied by gravimetric, metallographic and x-ray methods. The effect of Al, Fe; Cu; Ti; and B used as additives, and of the residual gas pressure was studied. It was found that the presence of small amounts of Al(1-3%) in powdered silicon causes the formation of a ternary compound Mo(Si, Al) with a hexagonal structure, the growth of which is expressed as a linear dependence on time. The presence of the other additives studied, with the exception of Ti, results in a decrease in the growth rate of the MoSi2 layer and does not affect its structure. The residual gas pressure does not affect the silicide layer growth, if it is within 1.10-6-1.10-4 mm Hg; at 1.10-3 mm Hg, the rate slows down 3-4 times; at 1.10-2 mm Hg disilicide is not formed at all, and only the Mo3Si phase is formed. Transition of the dark and opaque hexagonal disilicide into the silvery tetragonal form on prolonged heating was observed. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 07, 11/ SUBM DATE: 10Apr65/ ORIG REF: 007/ OTH REF: 006/ ATD PRESS:

4156

Card 2/2/20

EWT(m)/ENP(1)/ETC/EPF(n)_2/EWG(m)/EWF(t)/EWP(b AP5026274 UR/0226/65/000/010/0067/0070 AUTHOR: Nechiporenko, Ye. P., Krivoruchko, V. M.; Mitrofanov, A. S. TITLE: Siliconizing of refractory metals under nonequilibrium conditions 48.55,27 SOURCE: Poroshkovaya metallurgiya, no. 10, 1965, 67-70 TOPIC TAGS: siliconizing, refractory metal, silicide, molybdenum compound, aluminum containing silicon, chemical bonding ABSTRACT: The kinetics of the formation and growth of the silicides of refractory metals is a complex physicochemical process. In such cases, chemosorption is followed by growth of the layers of the products of the chemical reaction, with eventual rise of an equilibrium at the phase interfaces, i.e, constancy of the concentrations of the chemically bound components. This picture is markedly complicated when an insignificant amount of a third element takes part in the reaction or when the system of the layers that form is a multiphase system. In this connection the authors describe the results of an investigation of the kinetics of the vacuum siliconizing of molybdenum in the presence of a small amount (1.0-1.2 wt.%) of aluminum dispersed in the silicon. It is shown that in the absence of an equilibrium concentration of Strat the phase interfaces during the initial stage of siliconizing, the growth of the silicide layer in time obeys a rectilinear law, because Al, which 1/2 Card 09010283

F 2351-66

ACC NR: AP5026274

has a higher vapor pressure than Si, interferes with the supply of Si to the reacting surface. This happens only in the initial stage of the process, since equilibrium conditions begin to set in as the layer thickness increases, and the Al is gradually eliminated under the conditions of vacuum siliconizing. It is further shown that this rectilinear law of growth prevails not only in the case of compact and sufficiently thick single-phase layers but also for multi-phase layers, also because of the absence of an equilibrium at the phase interfaces (i.e. because of the variability of the concentrations of reacting substances). In this case, too, as the thickness of each phase and of the entire layer increases, an equilibrium sets in and the rectificar law of layer growth is superseded by the parabolic law. Orig. art. has: 4

ASSOCIATION: Piziko-tekhnicheskiy institut AN UkrSSR (Physico-Technical Institute of

SUBMITTED: 22Nov64

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 002

OTHER: 003

Cord 2/2/4.

GOVOR, V.M., inzh.; ISMAILOV, I.M., kand.tekhn.mauk; YARMUKHAMEDOV, U.Z., inzh.; SOSNOVSKAYA, B.Ya., inzh.; KRIVOHUCHKO, V.N., inzh.

Cooling of cottonseed oil cake prior to storage. Masl.-shir.prom. 29 no.2: 40-41 F '63. (MIRA 16:4)

1. Upravleniye pishchevoy promyshlennosti Soveta narodnogo khozyaystva
Uzbekskoy SSR (for Govor). 2. Sredneaziatskiy filial Vsesoyuznogo
nauchno-issledovatel skogo instituta zhirov (for Ismailov, Yarmukhamedov,
Sosnovskaya). 3. Yangiyul skiy maslozhirovoy kombinat (for
Krivoruchko).

(Oil cake—Storage)

KRIVORUCHKOV, I.I.; GOOSEN, K.Ya. New system for arc heating of hot tops. Prem. energ. 13 no.7:39-30 J1 '58. (MIRA 11:10 (MIRA 11:10) 1. Tyashpromelektroproyekt. (Electric heating)

KRIVOHUK, B.M.

Changes in the nervous system during dysentery. Trudy Izhev. gos.med.inst. 21:162-165

(MIRA 19:1)

1. Kafedra nervnykh bolezney (zav. - dotsent T.S.Osintseva) Izhevskogo meditsinskogo instituta.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610005-3

- 1. Kalvoddi, f.
- 2. USSR (600)
- 4. Telegraph
- 7. Finding out and eliminating the causes of waste, Sov. sviaz., No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PAVLOV, M.F.; KRIVORUK, M.P.

Method of reconditioning the track shoes of the OM-201 excavator.

Rats.i izobr.predl. v stroi. no.79:30-31 '54. (MIRA 8:4)
(Excavating machinery)

MATVEYEV, M.S.; KRIVOHUKOV, M.K.

Operation data of sewage purification plants of the Wove-Gor'kovskiy Petroleum Refinery. Khim.i tekh.topl.i masel 5 no.4:19-24 Ap '60. (MIRA 13:6)

1. Novo-Gor'kovskiy neftepererabatyvayushchiy savod. (Sewage--Purification)

MATVEYEV, M.S.; KRIVORUKOV, M.K.

Use of electric current in the purification of waste waters.

Prom. energ. 16 no.8:32-33 Ag '61. (MIRA 14:9)

(Sewage—Purification)

KRIVORUKOV, V.L., inzh.; ROZHANSKIY, Z.Ye., inzh.

Charge and discharge devices for canditioning alkaline storage batteries.
Elektrotekhnika 34 no.12:75 D '63. (MIRA 17:1)

ACCESSION NR: AT4026357

B/0000/62/000/000/0215/0221

AUTHOR: Briling, K. K.; Krivorutskiy, Yu. Kh.; Levinskiy, L. S.

TITLE: Construction of a large-capacity magnetic operating memory (MOZU)

SOURCE: Konferentsiya po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniyu teksta. Moscow, 1961. Vy*chisletil'naya i informatsionnaya tekhnika (Information processing and computer technology); sbornik materialov konferentsii. Moscow, 1962, 215-221

TOPIC TAGS: memory, addressing, circuit design, magnetic memory, switch, commutator

ABSTRACT: The article describes the construction of an address-selection system for a magnetic operational memory device of large capacity and medium speed, built on the "Z" system. The various ways in which this problem might be solved are discussed. The authors indicate as the preferred technique the switching of the currents from a single source over selected branches through the use of current commutation devices (switches). The work begun in 1957 at the Laboratoriya elektromodelirovaniya (Electrosimulation Laboratory) on the design of an operating magnetic memory with magnetic control led, in 1959, to the creation of the MOZU-1000. The experience acquired in this

rand 1/8.

ACCESSION NR: AT4026357

work demonstrated the operability and reliability of magnetic control systems; in this connection, the decision was made to continue this work in the development of a largecapacity magnetic operating memory. In the matter of selecting the control system, the authors compare two versions of address commutators: 1) a commutator using magnetodiode keys; 2) a commutator using boundary transformers. Both versions are discussed and analyzed in the article. With regard to the magneto-diode key type switch it is shown that the power of this device is basically determined by the switching of unselected cores by switching and zero channels and depends on the cross section of these channels; in turn, the section is determined by the number of output windings. After reaching a certain optimum value, the section begins to increase as the number of output turns increases. The second version (using boundary transformers) is also shown to suffer from a substantial defect - high rate of power consumption - because of the presence of a large number of passive elements. As a result, it was decided to use a third version of the address commutator, with a semiconductor triode operating under saturation as the switching element. This technique is described in some detail and it is shown that the channel current source can be very substantially simplified - one GU-50 tube instead of the 10-12 needed in the other versions, with the feed voltage capable of being lowered to 300 v, instead of 700-900 v. Orig. art. has: 6 figures and 24 formulas.

ASSOCIATION: None

2/:

Carc

MANGERON, D.; KRIVOSEIN, L.E.

Some methods for solving the contour problems of a new class of linear integrodifferential equations. Pt. 1. Bul St si Tehn Tim 8 no.1:19-35 Ja-Je '63.

1. Institutul politehnic, Iasi (for Mengeron). 2. Universitatea de State, Frunze, U.R.S.S. (for Krivosein).

41703

5/044/62/000/010/012/042 B180/B186

11,450

AUTHORS:

Mangeron, D., Krivosein, L. E.

TITLE:

Some problems in the solution of integro-differential

equations

PERIODICAL:

Referativnyy zhurnal. Matematika, no. 10, 1962, 54,

abstract 10B249 (An. stiint. Univ. Iasi, sec. 1, v. 5, no. 3, supl. 1960, 605-616) ([summaries in Rum. and French])

TEXT: Let

 $L[y] \equiv y^{(n)}(x) + \sum_{k=1}^{n} a_k(x) y^{(n-k)}(x);$

 $P[y] \equiv \sum_{\ell=1}^{k} b_{\ell}(x) D_{\ell}[y];$

 $D_{l}\{y\} \equiv \sum_{m=1}^{r} c_{m}(x_{l}) y^{(m)}(x_{l}); S[y] \equiv \sum_{m=1}^{p} d_{m}(l) y^{(m)}(l);$

 λ is a parameter; x_i , x, $t \in [c,d]$; the well-known functions $a_k(x)$, $b_i(x)$, $c_m(x)$; $d_m(t) K_1(x,t)$ are determined in the square x, t $\in [c;d]$,

Card 1/4

CIA-RDP86-00513R000826610005-3" **APPROVED FOR RELEASE: 06/14/2000**

(I)

S/044/62/000/010/012/042 B180/B186

Some problems in the solution ...

 $z_1(x)$,, $z_n(x)$ is an arbitrarily stipulated, linearly independent n-times differentiable system of functions, the Wronskian of which is non-vanishing at the segments [c;d]; H(x,t) is a given function which has the property:

 $\left[\frac{\partial^l H(x, l)}{\partial x^l}\right]_{l=x} \equiv \begin{cases} 0, & l=0, 1, \ldots, n-2; \\ a(x), & l=n-1, \end{cases}$

where $a(x) \neq 0$ at $x \in [c,d]$. For the boundary problem

 $R_l(y) \equiv \int_c^{\infty} r_l(t) S[y] dt = \gamma_l(l = 1, ..., n), (a)$

 $L[y] = f(x) + P[y] + \lambda \int_{a}^{u} \sum_{k=0}^{m} K_{k}(x, t) y^{(k)}(t) dt. (b),$

where u = x or u = b, the following are expounded: (1) Methods of deriving a solution; (2) Methods of deriving approximate solutions; (3) Conditions for the unambiguous and ambiguous solvability of problem (I). We will only outline the method for obtaining a solution to problem (I) for the case u = x; $n \ge (m, p, s)$. If the functions

Card 2/4

S/044/62/000/010/012/042 B180/B186

Some problems in the solution ...

$$y(x) = \sum_{k=1}^{n} c_k z_k(x) + \int_{a}^{x} H(x, t) \varphi(t) dt,$$
 (II),

where c_1,\ldots,c_n are certain constants, are substituted in equation (b), an integral equation of the Volterra type will be obtained in respect of $\varphi(t)$. Having found $\varphi(t)$ from this and then substituting it in (II), the following equality is obtained

$$y(x) = f_3(x, \lambda) + \sum_{\ell=1}^{n} c_{\ell} v_{\ell}(x, \lambda) + \sum_{\ell=1}^{k} \beta_{\ell}(x, \lambda) D_{\ell}[y].$$
 (III).

If the (III) functions are substituted in boundary conditions (a),

$$\sum_{i=1}^{n} c_{i} \, \delta_{ij}(\lambda) = \mu_{j}(\lambda) + \sum_{i=1}^{h} w_{ij}(\lambda) \, D_{i}[y] \, (i=1,...,n). \tag{IV}.$$

If the c_1, \ldots, c_2 solution of the (IV) system is substituted in (III),

$$y(x) = F(x, \lambda) + \sum_{l=1}^{k} u_{l}(x, \lambda) D_{l}[y]. \qquad (\forall).$$

Card 3/4

Some problems in the solution ...

S/044/62/000/010/012/042 B180/B186

After applying the operators $D_{j}[.]$ (j = 1,...,k), to (V) we get the system of equations

 $\sum_{i=l}^{k} a_{ij}(\lambda) D_{i}[y] = a_{j}(\lambda) \ (j=1,\ldots,k).$

Finding $D_j[y]$ (j=1,...,k) from this, and then substituting it in (V), we shall get an explicit term for the solution to problem (I). 'Also studied is the case where

 $\det\left(\delta_{IJ}(\lambda)\right)=0;\,\det\left(\epsilon_{IJ}(\lambda)\right)=0.$

[Abstracter's note: Complete translation.]

Card 4/4

MANGERON, D.; KRIVOSEIN, L.E. [Krivoshe:, J.Ye.]

New methods of numerical calculation of solutions of the integrodifferential different systems concerning applied mechanics. Pt.1. Studii cerc mechanics applied 164.

1. Polytechnic Institute, Iasi (for Mangeron). 2. Academy of Sciences, Kirghiz S.S.R. (for Krivosein). Submitted March 30, 1964.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826610005-3

KRIVOSEJEV, J.; LAANEP, E., red.; MITT, T., tekhn. red.

[Narva; excursion guide] Harvn; ekskursioonijuht. Tallin,
Eesti Riiklik Kirjastus, 1960. 104 p. (MIRA 15:1)

(Narva—Description)

KRIVOSHAPKIN, A.A.; USMINSKIY, A.N.; POKIDKO, N.M., redektor; SANDLER, N.V., redektor izdatel'stva; DOROZHZHINA, L.P., tekhnicheskiy redektor

[Palleting and bundling freight; experience of Leningrad docks with seagoing goods] Paketnmia pererabotka grusov; opyt Leningradskogo morskogo torgovogo porta. Leningrad, Ind-vo "Morskoi transport."

1956. 56 p. (MIRA 10:9)

(Freight and freightage) (Containers)

BORISOV, A.A.; KOMAROV, A.A.; KRIYOSHAPKIN, A.A.; SOROKIN, P.P., spetsredsktor; KUZNHTSOV, A.D., redsktor izdster stvs; DROZHZHINA, K.P., tekhnicheskiy redsktor

[Manual for longshoremen crew leaders] Uchebnoe posobie dlis brigadira gruzchikov morskogo flota. Leningrad, Izd-vo "Morskoi transport," 1957. 168 p. (Mira 10:9)

KRIVOSHAPKIN, A. A

Packing piece freight and lumber for shipment. Blok.agit.transp.no.2: 28-36 Ja '57. (MLRA 10:2)
1. Starshiy tekhnolog Leningradskogo morskogo porta. (Packing for shipment)

ANDRONOV, Leonid Petrovich, dots., kand. tekhn.nauk; VARSHAVSKIY, D.A., retsenzent; KRIVOSHAPKIN, A.A., retsenzent; PRIKHOD'KO, B.G., retsenzent; ARRKO, G.S., red.; LAVRENOVA, N.B., tekhn. red.

[Cargo handling and storage calculations] Skladskie i stividornye raschety. Moskva, Izd-vo "Morskoi transport," 1962. 250 p. (MIRA 15:6)

(Cargo handling)

(Warehouses)

KRIVOSHAPKIN, A.A.

Pack transportation, loading and unloading of exportation pulpwood logs. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.3:46-51 '62. (MIRA 16:5)

1. Starshiy tekhnolog Leningradskogo porta.
(Lumber—Transportation)
(Unitized cargo systems)

KRIVOSHAPKIN, B.V.

Our method of curve alignment. Put' i put.khoz. 6 no.3:32-33 Hr '62. (MIRA 15:3)

1. Starshiy dorozhnyy master, st. Kizema, Severnoy dorogi. (Railroads—Curves)

Modernization of hydraulic presses. Mashinostroitel' no.12:12
D '63. (MIRA 17:1)

KRIVOSHAPKIN, L. A.; ANTONOV, M. N.

Improving the feed mechanism of a semiautomatic lathe. Mashinostroitel no.12:17 D 62. (MIRA 16:1)

(Lathes) (Feed mechanisms)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610005-3

KRIVOSHAPKIN, 1.A.; ANTONOV, M.N.

Improving a grinding machine. Mashinestroltel' no.8:18 Ag '64.

(MIRA 17:10)

DEMESHEVA, G.A.; IVANCHIKOVA, E.I.; KRIVOSHAPKIN, M.A.; LEYCHIK, V.M.;
OVSYANKINA, V.I.; FECKTISTOVA, V.P.; TSIMMAN, M.Z.; BEKKULOVA, S.N.;
SUBKHANBERDINA, K.Kh.; RURAKOV, P.I., laureat Stalinskoy premii,
spetsial'nyy redaktor; MAIANINA, O.V., kandidat sel'skokhosyaystvennykh nauk, spetsial'nyy redaktor; SAKHAROVA, V.M., spetsial'nyy
redaktor; KOSZNKO, V.V., spetsial'nyy redaktor; ZHIZMEVSKIY, F.V.,
otvetstvennyy redaktor; BURIACHENKO, L.A., redaktor; ALFEROVA, P.V.,
tekhnicheskiy redaktor

[Experience of agricultural leaders of Kazakhstru; an annotated bibliography] Opyt peredovikov sel'skogo khoz'aistva Karakhskoi SSR; annotirovannyi ukazatel' literatury. *lma-A'a, 1955. 290 p. (HIRA 9:12)

1. Akademiya nauk Kasakhakoy SSR. Alma-Ata. TSentral'naya nauchnaya biblioteka. 2. TSentral'naya nauchnaya biblioteka Akademii nauk Kazakhakoi SSR. (for Demesheva; Ivanchikova, Krivoshapkin, Laychik, Ovsyankina, Feoktistova, TSinman)

(Bibliography--Kazakhatan--Agriculture)

USSR/Medicine - Veterinary, Foot-and USSR/Medicine - Veterinary, Foot-and Mouth Disease Mouth Disease, "R.A. Krivoshapkin, Foot-and-Mouth Disease," R.A. Krivoshapkin, Foot-and-Mouth Disease, "R.A. Krivoshapkin, A.S. Red'Roy Vet Physicians A.S. Red'Roy Vet Physicians A.S. Red'Roy Vet Physicians A.S. Red'Roy Vet Physicians Describes exptl inoculation of cattle with AETS Tanticiple of Acad Bogomolete's Ans lentireticular (anti-cithelial-cytolytic serum) Premiumunized cattle of Acad Bogomolete's these of diseased principle of Acad Bogomolete's these of diseased principle of Acad Bogomolete's these where the results title of 1:300 was obtained from hyperimumunized cattle very were favorable. Animals inoculated of the expt were favorable. Animals inoculated of the expt were favorable. Animals inoculated vith AETS and then exptly infected with the of the expt were favorable and recovered in 5-7 animals relation of foot-and-mouth disease contracted with AETS and then exptly infected with the fruither virus of foot-and-mouth disease contracted with AETS and then exptly infected with the fruither research and recovered in 5-7 animals fruither essential to determine the value of the scale are essential to determine the value of the scale are essential to a larger and recovered in 5-7 animals new serum.			ردي لا الدراة مقادة الأرا
	OSHAPKIN, N. A.	USSEA/Medicine - Veterinary, Foot-and Weaticine - Veterinary, Foot-and-Mouth Disease, "N.A. Krivo Foot-and-Mouth Disease," N.A. Krivo Foot-and-Mouth Disease," N.A. Krivo Foot-and-Mouth Disease," N.A. Krivo Foot-and-Mouth Disease," N.A. Krivo Veterinariya, Vol 30, No 7, pp 25- Veterinal Serum] Cattle vere used as antigen. Cattle vere used as antigen. Cattle vere used as antigen. Antice of 1:300 was obtained from cattle vere used as antigen. Antice of 1:300 was obtained from cattle vere used as antigen. Antice of 1:300 was obtained from borses. The author concludes that Liter of 1:300 was obtained from cattle vere served from and recovered It in a light form and recovered It in a light form and laboratory Further research and laboratory	

USSR / Microbiology. Antibiosis and Symbiosis. F-2
Antibiotics.

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76707.

Author: Krivoshapkin, N. A.; Chernov, M. V.; Ivannikov, A. R.
Inst: Veterinary Institute, Kazakh Franch, All-Union
Title: Use of Antibiotics in Laboratory Practice.

Orig Pub: Tr. In-ta vet. Kazakhs. fil. VASKHNIL, 1957, 8,

Abstract: No abstract.

Card 1/1

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610005-3

Using antibiotics for the preservation of blood. Veterinariia 34 no.10: 72-73 0 57.

(ANTIBIOTICS) (BLOOD_COLLECTION AND PRESERVATION)

KUZIMIN, A.I.; SKRIPIN, G.V.; KRIVOSHAPKIN, P.A.; KHYMSKIY, G.F.

Energy spectrum of the diurnal variation of cosmic rays and the diurnal temperature fluctuations at an altitude from 20 to 40 km. Geomag. i aer. 3 no.5:830-834 S-0 163.(MIRA 16:11)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR.

ACC NR. AR6027539

SOURCE CODE: UR/0313/66/200/005/0044/0044

AUTHOR: Krymskiy, G. F.; Altukhov, A. M.; Krivoshapkin, P. A.; Kuz'min, A. I;

Skripin, G. V.

TITLE: A new method for investigating cosmic ray anisotropy

SOURCE: Ref. zh. Issledovaniye kosmicheskogo prostranstva, Abs. 5.62.298

REF SOURCE: Sb. Issled. po geomagnetizmu i aeron. M., Nauka, 1966, 105-110

TOPIC TAGS: cosmic ray anisotropy, linear equation, earth magnetic field, particle trajectory, radiation spectrum, variational problem

ABSTRACT: A method using the spherical analysis of data from a worldwide network of stations is suggested in order to obtain the instantaneous characteristics of cosmic ray anisotropy. The analysis can be reduced to solving a system of linear equations with four unknowns. The solution determines the isotropic intensity and three components of the anisotropy vector. Introduced is a calculation for the coefficients for the unknowns in the equations for each station. The effect of the earth's magnetic field on particle trajectories, as well as differences in the energy spectra for isotropic and anisotropic variations, is considered. Abstract. [Translation of abstract]

SUB CODE: 04

Card 1/1

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826610005-3

ACC NR: A'T6027220

SOURCE CODE: UP/0000/66/000/000/0105/0110

AUTHOR: Krymskiy, G. F.; Almukhov, A. M.; Skripin, G. V.; Krivoshapkin, P. A.; Kuz'min, A. I.

27

ORG: none

3+1

TITLE: New method for studying the anisotropy of cosmic rays

SOURCE: AN SSSR. Sibirskoye otdeleniye. Sibirskiy institut zemnogo magnetizma, ionosfery i rasprost eneniya radiovoln. Issledovaniya po geomagnetizmu i aeronomii (Studies in geomagnetism and aeronomy). Moscow, Izd-vo Nauka, 1966, 105-110

TOPIC TAGS: cosmic ray anisotropy, cosmic ray intensity, cosmic ray

ABSTRACT: A method is proposed for determining the instantaneous characteristics of the anisotropy of cosmic rays. The method will make it possible to obtain the anisotropy distribution in the meridional planes and to study the anisotropy of phenomena characterized by abrupt changes in the isotropic background (such as the Forbush decreases), all of which was not possible using the method of diurnal variations. The method proposed makes use of the fact that the world-wide network of stations established during the IGY makes it possible to determine the neutron component with an hourly statistical accuracy of 0.1% and, thereof,

Card 1/2

L 04885-67

ACC NR: AT6027220

to determine the anisotropy characteristics over a 2-hr observational period, provided that its amplitude exceeds the mean amplitude by a factor of more than 2. A distinctive feature of the method is the representation of the distribution of cosmic-ray intensity over the celestial sphere in the form of a series in spherical functions and the use of the first spherical harmonic of the series. The expression for the first harmonic yields the amplitude of the anisotropy vector and an expression for the intensity in an arbitrary direction at an angle to the direction of the anisotropy vector. The spherical analysis reduces to the solution of a system of linear equations with four unknowns. The solution of the system determines the isotropic portion of cosmic-ray intensity as well as three components of the anisotropy vector. The coefficients at the unknowns are calculated and tabulated for 38 stations, taking into account the effect of the geomagnetic field on the charged-particle trajectories, and also the energy spectrum of the variations. Orig. art. has: 6 formulas and 1 table.

SUB CODE: 04/ SUBM DATE: 25Dec65/ ORIG REF: 012/ OTH REF: 002

Card 2/2 egh

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826610005-3

i. UHEED-O/ ENT(1)/ENT(4)/ECC I-IT(3) GI/AN

ACC NR: AT6027221

SOURCE CODE: UR/0000/66/000/000/0111/0118

AUTHOR: Kuz¹min, A. I.; Krymskiy, G. F.; Krivoshapkin, P. A.; Skripin, G. V.; Chirkov, N. P.; Shafer, G. V.

B+

ORG: none

19

TITLE: The nature of cosmic ray variations

SOURCE: AN SSSR. Sibirskoye otdeleniye, Sibirskiy institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln. Issledovaniya po geomagnetizmu i aeronomii (Studies in geomagnetism and aeronomy). Moscow, Izd-vo Nauka, 1966, 111-118

TOPIC TAGS: cosmic ray intensity, solar cycle, magnetic field

ABSTRACT: A brief survey is given of available data concerning the variation of cosmic ray intensity and the effect responsible for this variation. The effects of fluctuations of the magnetosphere and temperature fluctuations in the upper atmosphere on cosmic ray variations are examined. Cosmic ray flares with energies up to 10 Bev, and their association with Forbush decreases are discussed in relation to their effect on cosmic ray variations. The 11-year variations, 27-day variations, and solar diurnal and annual variations are shown to be closely interrelated, and to have modulation of galactic cosmic rays by the radial inter-

Card 1/2

L 04885-67

ACC NR. AT6027221

planetary field as their common source. All existing observations on the variation of cosmic ray intensity are seen to indicate the existence of an external (with respect to the sun) radial interplanetary magnetic field and the predominant contribution of the dynamic effects of the field's disturbances to the modulation of galactic particles. An important feature of the field's configuration (deduced from observations of the variation of cosmic ray intensity, and also from other unrelated data) is its oblateness with respect to the plane of the ecliptic or the solar equatorial plane.

SUB CODE: 04/ SUBM DATE: 25Dec65/ ORIG REF: 026/ OTH REF: 009/

Card 2/2 esp

ACC NR: AR6027538 SOURCE CODE: UR/0313/66/000/005/0043/0043

AUTHOR: Kuz'min, A. I.; Krymskiy, G. F.; Krivoshapkin, P. A.; Skripin, G. V.; Chirkov, N. P.; Shafer, G. V.

TITLE: The nature of cosmic ray variations

EWT(1)/FGG

SOURCE: Ref. zh. Issledovaniye kosmicheskogo prostranstva, Abs. 5.62.292

REF SOURCE: Sb. Issled. po geomagnetizmu i aeron. M., Nauka, 1966, 111-118

TOPIC TAGS: cosmic ray, cosmic ray variation, magnetic field, interplanetary magnetic field, magnetosphere

ABSTRACT: A review of studies is presented on cosmic ray variations caused by changes in the magnetosphere, the temperature of the upper atmosphere, modulation effects, and flare effects. The role of the interplanetary magnetic field in the generation of cosmic ray variations is emphasized and the characteristics of the field are evaluated. [Translation of abstract] [FM]

SUB CODE: 03, 04/ SUBM DATE: none/

Card 1/1 aun

L 45143-66

```
23L01-65 ENT(1)/END(v)/FCC/EDC-L/EEC(t)/ENA(h) Po-L/Pe-5/Pg-L/Pae-2/Peb/Pi-Li
3 15 TON NR: AP5002101 3W/KS S/3048/64/328/012/1997/2000
              ISTON NR: APSOCZIOI ON/NO
 AUTHOR: Kuz'min, A. I.; Krymskiy, G. F.; Krivoshapkin, P. A.;
                . . V. Chirkov, N. P.; Shafer, G. W.
                        of dulation of cosmic rays by an interplanetary magnetic
 ilpiú
 SOU CE: AN SSSR. Izvestiya. Seriya fizicheakaya, v. 28, no. 12,
 1964, 1997-2000
  I FIG TAGS: cosmic ray flux, chromospheric flare, magnetic field,
 - restrial orbit, solar particle, Forbush decrease, galactic cosmic
 rependential function, interplanetary magnetic field
             SANT: The flux of cosmic rays depends upon the state of chro-
      asseric flores. A reflecting magnetic field can exist inside or
           which the terrestrial orbit; this field tooks but restrict the mo-
                      n e lar perticles. The substance e for a constant store vertous
                           The factor of the season of the first of the season of the
          the superated from other space to an envelope of the segre-
Cord 1/3
```

23401-65 ACCESSION NR: APSOC2101 gated space, solar cosmic rays may move away from or toward the sun. Inia secregated space is characterized by a decrease of galactic. traves. The energy spectrum of particle is an energy spectrum of more than ? Bev is characterize the second than the second exponent of to.) to the earland es all a case the earland which are associated with the limpear social activity cycle. The degree of variation is greater in the polar regions than at middle latitudes. I research as compared with the s car chromospheric flares obtained by experiments indicates an s stansion of the magnetic shell of the segregater space with a veif lifem sec-1. This expansion may be precipited with the the radial interplanetary magnet of terms the intensity of cosmic rays is less in the attention of the soler evenem the tree flux in the galaxy. An intensity gradient of ros-The take must exist at the boundary between the solar system and the inperturbed galaxy. Orig. art. has: I figure, I table, and 4 in ...as. [20] The MIATION: Institut kosmofizicheskikh issled vaniv i seronomii Frittenopo filiala Sibirakogo otdalaniya Arabanii ingelikuwa card 2/3

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826610005-3

L 2对01-65

ACCESSION NR: AP5002101

(Institute of Space Physics Research and Aeronomy of the Yakutsk Branch of Siberian Division, Academy of Sciences, SSSR)

· ITTED: 00

ENCL: 00

BUB CODE: AX

NO REF SOV: 008

OTHER: 004

Card 3/3

L 4510-66 EWT(1)/EWT(m)/FGC/T/EWA(h) IJP(c) GS/GW

ACCESSION NR: AT5022836

UR/0000/65/000/000/0239/0245

36

AUTHOR: Kuz'min, A.I.; Krivoshapkin, P. A.; Krymskiya, G. F.; Skripin, G. V.

TITLE: The study of upper atmosphere temperature variations from terrestrial measure-

SOURCE: Vsesoyuznoye soveshchaniye po kosmofizicheskomu napravleniyu issledovaniy kosmicheskikh luchey. 1st, Yakutsk, 1962. Kosmicheskiye luchi i problemy kosmofiziki (Cosmic rays and problems in cosmophysics); trudy soveshchaniya. Novosibirsk, Redizdat Sib. otd. AN SSSR, 1965, 239-245

TOPIC TAGS: cosmic ray measurement, atmospheric temperature, cosmic ray intensity, upper atmosphere

ABSTRACT: Data concerning the dynamics of the mesosphere are necessary for the understanding of the coupling mechanism between the solar and terrestrial events and of the general circulation of the atmosphere. However, systematic data about atmospheric dynamics at altitudes between 20 and 80 km are practically nonexistent. The present article, consequently, gives results concerning the periodic temperature variations of the mesosphere asderived from the terrestrial measurements of cosmic rays at Yakutsk. The cosmic ray intensity was measured continuously over the 1959-1960 period at 30 and 60° from Card 1/2

09010070

L 4510-66

ACCESSION NR: AT5022836

the zenith on the Earth's surface and underground at 20 and 60 m. w. equiv. (some data concerning daily variations are based on the 1958-1959 period). Experiments were carried out under the assumption that the variations in cosmic ray intensity at 60° and 20 (60) m. w. equiv. depths were caused by temperature variations of the atmosphere only. The analysis of data confirmed the accepted production mechanism for the hard cosmic ray component via intermediate nuclear-active mesons. Significant periodic changes in upper atmosphere temperature were found at the height of the ozone layer. These seasonal variations were between 35 and 50C, the 27-day variation amplitude was 5-10C, while daily variations were within the 3-7° limit. The yearly maximum appears in the fall, and the daily maximum during night hours. The observed temperature variations agree well with data from spectral observations of the night skies. The spectral results referring to altitudes of 80-120 km have amplitudes several times larger than the corresponding results for the 20-50 mb layer presented in this article. Orig. art. has: 2 formulas, 7 figures, and 2 tables.

ASSOCIATION: Institut kosmofizicheskikh issledovaniy i aeronomii YaF SO AN SSSR (Institute of Cosmic Physics Studies and Aeronomy, YaF SO AN SSSR)

SUBMITTED: 290ct64

ENCL: 00

SUB CODE: ES, AA

NO REF SOV: 005

OTHER: 000

Card 2/2

L 29178-66 - EWT(1)/FCC/EWA(h) GW		
AUTHOR: Skripin, G. V.; Kriveshankin, D. A. W.; Kriveshankin, D. A.] ·	
AUTHOR: Skripin, G. V.; Krivoshapkin, P. A.; Krymskiy, G. F.; Filippov, V. A.		3.7
(Institute of Astrophysical Research and Astronomy, Yakutsk Branch, SO AN SSSR (Institut kosmofizioheskikh issledovaniy i astronomii Yakutskogo (Illale SA AN SSSR	• ,*	
study of the anisotropy of cosmic rays by the crossed telescopes method		
SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 5, 1965, 817-825	•	
TOPIC TAGS: cosmic ray anisotropy, geomagnetic field, solar activity		
ABSTRACT: A method is proposed for taking into account distortions of aniso- tropy of cosmic rays by the geomagnetic field and the directional dia- gram of the instrument. The authors have computed matrices restoring		
angles and three forms of the energy spectrum of anisotropy. Using the		()
the neutron component for three epochs of solar activity (1958-1964).		
and the vectors of the atmospheric influence for the earth's surface and	-	
for depths of 7:20 and 60 m (water equivalent). An evaluation is given of the degree of agreement between the derived vectors and three forms	_]	
Cord 1/2	-	
UDC: 523.165	1	
	· ·	

of energy spectra. Use of the matrices makes it possible to determine the primary and atmospheric components of the diurnal wave. In the period of the maximum and decline of solar activity observations are described satisfactorily by a spectrum given by the diffusion mechanism. The authors express thanks to L. I. Dorman and A. I. Kuz'min for their fruitful discussion of a number of problems. Orig. art. has: 4 figures, 8 formulas, and								
 	(JPRS) 04, 03, 0							i i
ξ. Σ							٠	

KRIVOSHAFKO, M.R., insh.

Protecting communication channels from disturbances caused by electric traction. Avtom., telem. 1 sviaz' 2 no.1:27 Ja '58.

(MIRA 11:1)

1. Laboratoriya signalizatsii 'syyasi L'vovskoy dorogi.

(Telephone lines)

MASHINSKIY, V.L.; POPOV, I.K.[deceased]; KRIVOSHAPOV, I.S., red.

[Problems of the organization of production in nurseries, flower and greenhouse farms, and orchard and park management; brief lectures as an aid to correspondence teaching]Voprosy organizatsii proizvodstva v pitomnikakh, tsvetochno oranzhereinykh i sadovo parkovykh khoziaistvakh; kratkie lektsii v pomoshch' zaochnomu obucheniiu. Moskva, Vserossiiskoe ob-vo sodeistviia okhrane prirody i ozeleneniiu naselennykh punktov, 1960. 86 p. (MIRA 15:7)

(Plants, Ornamental)

GASSOVSKIY, L. N.; KRIVOSHAPOVA, L. V.

Multifocal eyeglasses. Nov. med. tekh. no.2:47-59 161. (MIRA 14:12)

- 1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S. I. Vavilova.

(EYEGLASSES)

KRIVOSHCHAPOV, M., polkovnik, Voyennyy letchik pervogo klassa

Flight discipline and flight commander. Av. i kosm. 47 nc.92
32-37 S *64. (MIRA 1728)

Prophylactic surveys for the detection of cancer and precancerous conditions. Zdrav.Belor. 5 no.6:55-56 Je '59.

(MIRA 12:9)

1. Zaveduyushchaya Gomel'skim gorzdravotdelon (for Snezhko).

2. Gomel'skiy oblastnoy onkodispanser (for Krivoshchekiy).

(CANCER)

KRIVOSHCHEKIY, A.F., zasluzhennyy vrach ROSE; GROFENNIKOVA, D.M.

Dispensary service in stomach diseases. Zdrav. Bol. 9 no.6:54-55 Je 163. (MTRA 17:5)

1. Iz Gomel'skogo oblastnigo onkologicheskogo disjensora (glavnyy vrach 1.F. Krivoshchekiy).

KRIVOSHCHEKIY, A.F.

Practices of consultation centers in the prevention of cancer in women. Vop.onk. 6 no.2:98-101 F '60. (MIRA 14:2) (GENERATIVE ORGANS, FEMALE—CANCER)

KRIVOSHCHEKIY, A.F.

Thrombocyte count in the diagnosis of cancer. Vest.khir. no.7: 30-34 161. (MIRA 15:1)

1. Iz Gomel'skogo onkologicheskogo dispansera (gl. vrach - A.F. Krivoshchekiy).
(CANCER-DIAGNOSIS) (HLOOD PLATELETS)

A.V. Pritushin, monlogist of Siberia. Okhr. prin in the Balt. Vost. no.1:217-220 | 162.

"Nature of Tomsk invitoe and its protection." deviewed by G.M. Krivoanchekov. Itid.:252-253 (Y12) 17:5

From any Bloss Kinguisementy, Gitt.

New literature on problems of conservation in Total (all 1922)

1951-1960. Okhr. prin. Sib. 1 Ball. Vost. no. Total (All 1925)

(MIRA 1925)

10GANZEN, B.G.; GUNDRIZFR, A.N.; KAFANOVA, V.V.; KRIVCSHCHEKOV, G.M.

Lake Teletskoye as a unique body of water of the Altai and an object deserving protection. Izv. Alt. otd. Geog. ob-va SSSR no.5:216-217 '65. (MIRA 18:12)

1. Tomskiy gosudarstvennyy universitet.

IOGANZEN, B.G.; PETKEVICH, A.N.; KRIVOSHCHEKOV, G.M., red.

[New fishes of Western Siberia] Hovye ryby Zapádnoi Sibiri. Novosibirak. 1960. 50 p. (MIRA 14:7)

1. Vserossiyskoye obshehestvo sedeystviya okhrane prirody i oseleneniyu naselennykh punktov.

(Siberia, Western—Fishes)

(Animal introduction)

Discussion of problems in ecology at the Biological I	ngtitute of the
Siberian Division of the Soviet Academy of Sciences. AN SSSR no.12:137 '60. (Ecology)	Izv.Sib.otc. (KI.A 14:2)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826610005-3"

KRIVOSHCHEROV, G.V.; DROBININA, A.V. A new cathode for thermionic aminaton. 127. vost.fil. AN SSER (MLRA 10:9) no.2: 10-94 157. 1. Zapadno-Sibirakiy filial Akademii nauk SSSR. (Thermionic emission) (Cathodes)

RIVESHEHF KCV, 30-10-16/26 Rumer, Yu. B., Doctor of Physico -Mathematical Sciences, Krivoshchekov, G. V. AUTHORS: The Siberian Institute of Radiophysics and Electronics (Sibirskiy institut radiofiziki i elektroniki).* TITLE: PERIODICAL: Vestnik AN SSSR, 1957, October, Nr 10, pp. 108-110 (USSR) Scientific research is being conducted at the Siberian Institute of Radiophysics and Electronics in the following fields: ABSTRACT: a) Theoretical physics (applied electrodynamics) b) Electronic phenomenona at super-high frequencies. c) Electronics of cathodes. d) Physics of gas-discharges. Methods of mathematical physics were developed and the following problems studied: 1) Theory of directional antennas. 2) Studies of distribution of the currents in aerials with optimum radiation pattern. 3) Theoretical investigation of wave guides the crosssection of which changes slowly. 4) Development of a new theory of the magnetron. 5) Experimental determination of a new inversion process of the conductivity of diodes. *[organized from the Section of, Technical Physics of the West-Siberian Branch of the AS USSR] Card 1/2