осон тулда кауч са ара-така. Детидиокиско-контакиски систе пониказика – и

GACHECHILADZE, R. G.; TUMANISHVILI, G. D.

Change in the nucleie acid content of a regenerating rat testicle under the influence of rabit testicle extract. Dokl. AN SSSR 156 no. 1:171-173 by 164. (MIRA 17:5)

1. Institut kibernetiki AN GruzSSSR i Institut fiziki AN GruzSSSR. Predstavleno akademikom A. I. Oparinym.

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2781-66 EWF(1)/FCC/EWA(h) GW ACC NR: AP5025483 S	OURCE CODE: UR/0203	/65/005/005/0934/093	и 19 16	
AUT.:OR: <u>Gachechiladza, R. G.; Knoc</u> 44,55 ORG: <u>Toilissi State University</u> (r) of Geophysics, AN GruzSSk (Institut	47.55 อ้า piligakiy pogud∖raty	earvy universitet); Sa	Institute	•
TITLE: Anomalous absorption in pol SOURCE: Geomagnetizm i aeronomiya,	lar cap			
TOPIC TAGS: astronomy, solar active solar flore, earth magnetism, solar 12,44.55 ABSTRACT: The case of April 10, 19 cases of anomalous absorption in the typical case of absorption, it was	258, was the most in be polar cap. Despi only now that an at	toresting of all obs toresting of all obs to the fact that it tempt was made to ex	erved Was a Wlain	• •
1/3	ortical probing of t	UDC: 550.385.	ned by	

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ACC NR: AF5025483

high latitude stations (up to 50° of geomagnetic latitude) were used in the study, by taking the parameters f_{min} and f_0F2 from ionospheric data. Graphs were plotted on the dependence of time (t) of the anomaly reginning on the effective latitude $\overline{\lambda}$ (in coordinates $\overline{\lambda}$ vs. t and $\overline{\lambda}$ vs Δ t; where Δ t is the duration of anomalous absorption in the polar cap). The heliophysical phenomena were investigated for the same period. Two active areas (A and B) were present in the sun during the period from March 30 to April 20 (See Solnechnye dannye, 1958, No. 4. and Quart. Bull. Solar Activity, 1958, No. 2). The entire complex of disturbances which occurred between April 10 and 20 was tentatively explained on the casis of these data. The flocculus in area A emitted, on April 8, a corpuscular stream (stream 1) of low velocity which reached the earth orbit and caught the earth on April 14, causing a storm with a gradual beginning (the earth entered the stream from the lateral side). The chromospheric solar flare ($\Psi = 11^{\circ}N$, $\lambda = 40^{\circ}W$) occurred at 14 hrs. 30 min. in the region B of the sun (eastern part, latitude $\sim 10-20^{\circ}$ N). It generated high-energy particles causing an anomalous absorption in the polar cap on April 10. The prolonged wandering of particles in space was caused by the presence of stream 1 ant#agaetic heterogeneity. This explained also the isotropic intrusion of particles into the ionosphere of the ontire polar cap. The same flare emitted another corpuscular

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. I., RIGHTCHIDSHIPPED BURNESSMART - 1941 L 9781-66 ACC NR: AP502/5483 0 stream (stream 2) which passed the earth without reacting with the earth's magnetic field because of its high velocity. Till the evening of April 11 stream 2 caused a local effect of a decrease in cosmic rays and ionosphere for European zone, which was at this moment in the evening side, The goomnametic storm of the SC type, which occurred at 20 hrs. 48 min. on April 15 could have been caused by corpuscular stream 3, emitted by the chromospheric solar flare generated in the area B and having the coordinates $\varphi = 14^{\circ}N$ and $\lambda = 36^{\circ}W$. Orig. art. has: 4 figures. NR REF SOV: 004/ OTHER: 002 SUB CODE: 09, 04, 93, SUBM DATE: 07Dec64/ 3/3

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COMPAREMENTS TO A CONTRACT OF A CONTRACT

L 13089-66 EWT(1)/FCC/EW	Nor and a second s	
		251/65/039/003/0555/0560 39
AUTHOR: Gachechiladze, R.	G.; Khocholava, G. M.	31
	CS. Academy of Sciences Count	an SSR (Institut geofiziki
TITLE: Anomalous absorption	n at the polar cap	
SOURCE: AN GruzSSR. Soobshe	cheniya, v. 39, no. 3, 1965, 55	55-560
TOPIC TAGS: Bolar flare, ic cular radiation	onospheric absorption, solar ch	nromosphere, solar corpus-
are from vertical ionosy heri tions in the northern hamisp electrons and protons vere g radiation of relativistic el	y one of the interesting cases eric flare on 7 July 1968. The ic sounding by a world wide net ohere and 34 in the southern he generated by the chromospheric ectrons was frozen into a plass of May were hurled out by the	e data used in the paper work of stations: 67 sta- misphere. High energy flare. The synchrotron
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L 13089=66 ACC NR: AP6000733

terrestrial orbit in 1-2 hours. Because of their comparatively low energy, they fell only into the polar cap regions causing anomalous absorbtion of the third type. The corpuscillar stream thrown out by this flare reached a terrestrial orbit in 31 hours and caused geomagnetic and ionospheric storms, as well as storms in terrestrial currents and cosmic rays. The state of the ionosphere was studied by using hourly and quarter-hourly data on the minimum reflection frequencies during vertical ionospheric probing. The state of the F2 layer was evaluated by deviation of its critical frequencies from the average monthly values in percent. It was found that the state of the F2 layer was nearly calm up until the beginning of the geomagnetic storm. An ionospheric storm began in the initial phase of the geomagnetic storm, gradually reaching almost all latitudes. This disturbance reached a maximum in the principal phase of the geomagnetic storm and gradually decreased, ending on 10 July. Anomalous absorbtion was observed simultaneously at all northern stations down to a latitude of 640, while in the southern hemisphere observation was delayed by 3-4 hours. At stations located below a latitude of 64°, anomalous absorbtion was not observed until 10-20 hours after the chromospheric flare, and was much less pronounced.

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SUB CODE: 08/12/SUBM DATE: 14Jan65/ ORIG REF: 007/ OTH REF: 002

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L 43160-66 EWT(1)/FCC GW SOURCE CODE: UR/0203/66/006/003/0588/05	59		
AUTHOR: Khocholava, G. M.; Gachechiladze, R. G.		1	
ORG: Institute of Geophysics, AN GruzSSR (Institut geofiziki AN GruzSSR)			
TITLE: Nature of disturbances in the F2 region of the ionosphere at middle latitu	des		
SOURCE: Compandize i aeronomive, v. 6, no. 3, 1966, 588-589			
TOPIC TAGS: ionospheric disturbance, F layer Earth magnetic field geomagnetic storeance ABSTRACT: In an analysis of the character of ionospheric disturbances at middle i tudes, use was made of data obtained from vertical sounding of the ionosphere duri tudes, use was made of data obtained from vertical sounding of the ionosphere duri the IGN by six stations located in the latitude range of 02-65°N. The initial dat employed were the critical frequencies of the F2 layer. Graphs were plotted for of ations of these frequencies from the normal level ($F2, \beta$). The disturbance pa was studied by using different methods of processing the data, in order to determ whether positive disturbances are due to errors inherent in the method itself or whether they actually occur at middle latitudes. The following conclusions were reached: (1) the median calculated for magnetically quiet days can be used at all latitudes; (2) positive disturbances are observed only at low (equatorial) latitude and also during winter months at geomagnetic latitudes above 47° (nocturnal winter anomaly); (3) positive disturbances are lacking at middle latitudes. Isolated ca positive distrubances observed by some stations at middle latitudes are strictly	logia levi- attern ine l des, r ses of	r	
Card 1/2 UDC: 550.388.2			· ·

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B CODE:	04,08/SUBM DAT	S: 04Dec65/	ORIG REF:	003			
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SOURCE CODE: UR/2502/65/001/000/0062/0073 ACC: NRI AT 6028209 AUTHOR: Gachechilaiza, R. G.; Khocholava, G. H. ORG: none 12 TITLE: Ionospheric perturbations caused by large chromospheric flares SOURCE: AN GruzSSR. Institut geofiziki. Trudy, v. 1(23), 1965. Nekotoryye voprosy issledovaniya eletromagnitnogo polya Zemli (Some problems in the investigation of the earth's electromagnetic field), 62-73 TOPIC TAGS: solar chromosphere, solar flare, ionospheric disturbance, ionospheric absorption ABSTRACT: This paper studies all cases of type III anomalous absorption recorded from July 1957 to June 1960 in the polar cap and the laws governing it. The material used is from the world data center for IGY, Moscow (mirovoy tsentr dannykh MGG). The topics discussed include the relationship between anomalous absorption and solar activity. It is noted that of the 37 cases in the polar cap 29 may be linked to chromospheric flares of intensity 3 and 3+, and the other eight to flares of intensity 2 and 2+. Two types of anomalous absorption in the polar cap corresponding to the "early" and "late" types of Sakurai are considered. Daily variation and length of anomalous absorption in the solar cap where absorption continuously increases for about one day and deteriorates over several days is discussed: one flare causes 2-3 days Cord 1/2

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luring	otion, s	lous ab	flares	n in the	ays. The solar cap	is dis	cussed an	d 1C 18	noted that	16 18 /	
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taneously. Type II phenomena start at one or several stations and gradually embrace the entire polar cap but in the first 10 to 15 hours the absorption is not total. Generally, these cases follow flares occurring in the eastern solar hemimay be one of the factors determining the division of anomalous absorption in the polar cap into two types. Daily variations and the duration of anomalous absorption in the polar cap are investigated. The evolution of anomalous absorption may be divided into three stages: prior to, during, and following the magnetic storm. On anomalous absorption is suggested. Bibliography has 20 titles. I. Odintsova.

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GRICHECHILNDZE, T.G.

Angular distribution of the Be9 (He³, p) B¹¹ reaction. Soob. AN Grus. SSR 18 no.5:529-532 My '57. (MLRA 10:9)

1. Akademiya nauk Grusinskoy SSR, Institut fiziki, Tbilisi. Predstavleno chlenom-korrespondentom Akademii V.I. Mamasakhlisovym. (Nuclear reactions)

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GACHNCHILADZE, T.G. A note on the D+ D reaction. Soob. AN Gruz. SSR 19 no.4:401-406 (MIRA 11:5) 0 157. 1. Institut fiziki AN GruzSSR, Tbilisi. Predstavleno chlenomkorrespondentom AN GrusSSR V.I. Mamasakhlisovym. (Nuclear reactions)

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OACHNCHILADEN, T.O.

Theory of order in binary alloys. Soob. AN GRUZ. SSR 20 no.1:21-25 (MIRA 11:6) Ja 158.

l.Institut fiziki AN GruzSSR, Tbilizi. Predstavleno chlenomkorrespondentom Akademii V.I. Mamasakhlisovym. (Alloys)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930007-3"



AUTHORS: Mdivani, O. and Gachechiladze, T. SOV/126-8-3-1/33 On the Ordering of Ternary Alloys TITLE: PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 3, pp 321-329 (USSR) ABSTRACT: An attempt is made in the present paper to obtain a formal generalization of the long-range order theory for binary alloys to the case of ternary alloys. The authors have not succeeded in using the Bragg-Williams theory (Ref 1) to find the Curie point for ternary alloys because of mathematical difficulties. In order to describe the properties of a ternary alloy, it is necessary to introduce four order parameters (Refs 2 and 3) When this is done the calculation of the free energy can be carried out in the usual way. The equilibrium conditions consist of a set of four transcendental equations involving the long-range order parameters. In the case of binary alloys, the Curie point is obtained from the equation $s = th \frac{1}{2kT}$ Card 1/2 In the case of ternary alloys it is not possible to obtain

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On the Or	dering of Ternary Alloys SUV/126-8-3-1/33	
	the Curie point with the aid of an analysis of the corresponding (to this equation) transcendental equations. It is shown that near the Curie point and starting with the general discussion it is possible to establish certain relations between the four long-range order parameters and an approximate expression can be obtained for the Curie point. The final equation for the Curie point is given by Eq (39). There are 4 references, 1 of which is Soviet, 1 Polish and 2 English. ON: Tbilisskiy gosuniversitet, Institut elektroniki, avtomatiki i telemekhaniki AN Gruz. SSR (Tbilissi State University, Institute of Electronics, Automation and Telemechanics, Ac.Sc., Georgian SSR)	ŕ
SUBMITTEI	: May 6, 1958	
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THE REPORT OF THE PART OF THE PART

Reaction $C^{13}(\alpha, n)O^{16}$ (Gb uglovom raspredelenii neytronov v reaktsii $C^{13}(\alpha, n)O^{16}$)	AUTHCRS:	Mdivani, O. H., Gachechiladze, T. G. SOV/56-36-5-59/76
ABSTRACT: In the present paper the authors describe the results obtained by three American papers, and especially the results obtained by Schriffer, Kraus, and Risser (Ref 1) concerning the neutron angular distribution of the reaction mentioned in the title at 4 different \propto -energies. The results of this investigation are compared with those obtained by Owen and Madansky (Ref 2) in connection with the reaction Be ⁹ (\propto ,n)C ¹² , as well as with the theoretical results obtained by Butler (Ref 3). There are 1 figure, 1 table, and 3 references.	TITLE:	Reaction $C^{13}(\alpha,n)O^{16}$ (Ob uglovom raspredelenii
obtained by three American papers, and especially the results obtained by Schriffer, Kraus, and Risser (Ref 1) concerning the neutron angular distribution of the reaction mentioned in the title at 4 different ∞ -energies. The results of this investigation are compared with those obtained by Owen and Madansky (Ref 2) in connection with the reaction Be ⁹ (∞ ,n)C ¹² , as well as with the theoretical results obtained by Butler (Ref 3). There are 1 figure, 1 table, and 3 references.	FERIODICAL:	Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 5, pp 1591-1592 (USSR)
results obtained by Butler (Ref 3). There are 1 figure, 1 table, and 3 references.	ABSTRACT :	obtained by three American papers, and especially the results obtained by Schriffer, Kraus, and Risser (Ref 1) concerning the neutron angular distribution of the reaction mentioned in the title at 4 different \propto -energies. The results of this investigation are compared with those obtained by Owen and Madansky (Ref 2) in connection with
ASSOCIATION: Thilisskiy gogudarstyennyy universitet (Thilisi Chate		results obtained by Butler (Ref 3). There are 1 figure.
Card 1/2 University)		Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

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- Akademiya nauk Gruzinskoy SSR. Institut elektroniki, avtomatiki 1 telemekhaniki
- Trudy (Academy of Sciences of the Georgian SSR. Institute of Electronics, Automation and Remote Control. Transactions) No. 1. Tbilisi, 1950. 126 p. 500 copies printed.
- Ed. A. I. Eliashvili; Deputy Ed.: E. Ualamueridze; Tech. Ed.: A. Thodua.
- PURPOSE: This collection of articles is intended for scientists and technical personnel concerned with electronics in general, and machine translations in particular.
- COVERAGE: Four out of the nine articles concern machine translation from Georgian into Russian, and vice-versa. Two articles consider general problems of machine translation. The three remaining articles discuss various electronic devices. Articles 1, 3, and 4 are written in Georgian with summaries in Russian. The

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TABI	foned. References accompany most of E OF CONTENTS:	one aroreras.	
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1.	Dameniya, M. Ye. Concerning the Anal Georgian Language for Machine Transl	vtical Patterns of the ations	3
2.	Chikoidze, G. B. Concerning the Algo Georgian Machine Translation	orithm of Russian-	1~
3.	Gachechiladze, T. G., and A. I. Elias Two-Letter Combinations for the Liter	hvili. Statistics of ary Georgian Language	25
4.	Tsertsvadze, G. N., and T. <u>G. Gacheck</u> Letter Distribution in the Words of t	iladze, Process of The Georgian Language	25
5.	Kakauridze, A. G. Some Problems in (oding Vowel Sounds	41
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 6. Imedadze, V. V., and I. P. Paylodze. Registers and Binary Counters Using Ferrites and Transistors 65 7. Imedadze, V. V., and A. G. Lekvinadze. Analysis of the Operation of a Thyratron Changeover Switch 93 8. Tsintsadze, Sh. A. Investigation of a Low-Power Synchronous Generator as the Object of Voltage Regulation During Simul- taneous Variation in the Speed of the Set 105 9. Chakhirov, N. S. Concerning the Problem of Calculating Transients in an Induction Drive With Choke Control 115 AVAILABLE: Library of Congress (TK7800.A45A14) Card 3/3 		ademy of Sciences (Cont.) SOV/5	
 7. Imedadze, V. V., and A. G. Lekvinadze. Analysis of the Operation of a Thyratron Changeover Switch 93 8. Tsintsadze, Sh. A. Investigation of a Low-Power Synchronous Generator as the Object of Voltage Regulation During Simul- taneous Variation in the Speed of the Set 105 9. Chakhirov, N. S. Concerning the Problem of Calculating Transients in an Induction Drive With Choke Control 115 AVAILABLE: Library of Congress (TK7800.A45A14) Card 3/3 JP/rsm/ec 	0.	Counters Using Ferrites and Transistors	
 8. Tsintsadze, Sh. A. Investigation of a Low-Power Synchronous Generator as the Object of Voltage Regulation During Simul- taneous Variation in the Speed of the Set 105 9. Chakhirov, N. S. Concerning the Problem of Calculating Transients in an Induction Drive With Choke Control 115 AVAILABLE: Library of Congress (TK7800.A45A14) Card 3/3 JP/rsm/ec 	7.	Imedadze, V. V., and A. G. Lekvinadze. Analysis of the Operation of a Thyratron Changeover Switch	: - ⁻
9. Chakhirov, N. S. Concerning the Problem of Calculating Transients in an Induction Drive With Choke Control 115 AVAILABLE: Library of Congress (TK7800.A45A14) Card 3/3 JP/rsm/ec	8.	Tsintsadze, Sh. A. Investigation of a Low-Power Synchro Generator as the Object of Voltage Regulation During Sin taneous Variation in the Speed of the Set	onous nul-
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同名編

GACHECHILADZE, T.G.; ELIASHVILI, A.I.

Statistics of two-letter combinations for the Georgian literary language. Trudy Inst.elek., avtom.i telem.AN Gruz.SSR 1:25-27 160. (MIRA 14:6) (Machine translating) (Georgian language---Translating)

APPROVED FOR RELEASE: 03/13/2001

TSERTSVADZE, G.N.; GACHECHILADZE, T.G.

Distributing letters in words in the Georgian Language. Trudy Inst. elak. avtom.i telem.AN Gruz.SSR 1:29-39 '60. (MIRA 14:6) elek., avtom.i telem. AN Gruz.SSR 1:29-39 160. (Machine translating) (Georgian language-Translating)

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ABELISHVILI, T.L.; GACHECHILADZE, T.G.; MDIVANI, O.M.

Angular distribution of neutrons in the reaction C^{13} (d, n)N¹⁴. Zhur. eksp.i teor.fiz. 38 no.2:631-633 F '60. (MIRA 14:5)

l. Tbilisskiy gosudarstvennyy universitet i Institut elektroniki, avtomatiki i telemekhapiki Akademii nauk Gruzinskoy SSR. (Neutrons) (Nuclear reactions)

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On the E-structure of the distribution of gaps.

S/748/61/002/000/001/003

each interrelated noun-verb pair stands separately with all elements lying between the two key elements of the pair marked by dashes. The complex consisting of a noun and the verb nearest to it, together with the dashes located between them, are termed a "word" and the verb and noun standing nearby are termed an "interval between words." 'The paper studies the distribution of the length of the "words," that is, the number of dashes in a "word." The length of a "word" is affected by the neighboring "words" and the omitted symbols. The method proposed takes this influence into consideration. The mathematical description of the process of formation of the "words" by means of a suitable mathematical model is described. The experimental portion of the paper reports the distribution of the length of "words" of three languages: Russian, Gruzian, German. Inasmuch as the statistic for the latter was found to be fairly inadequate, no theoretical distributions were set up for it. The criterion for the sufficiency of the amount of text digested was judged by the change in the probabilities encountered when an additional (usually 1,000-word) portion of text was added to the results of the preceding investigation. When the oscillations lay within $\pm 1\%$, the text was regarded as sufficient. The ε spectrum was set up by an experimental calculation of the moments, the value of which was equated to the expression obtained by the mathematical functions derived in the present study. The solution of these equations provided the theoretical distribution. The works of 3 Gruzian authors were analyzed. For the Russian language, the

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On the E-structure of the dis works of 3 authors (A. Fadeyev German authors analyzed were wanger. There are 12 tables, authors. There is no list of re language work by Victor H. Yng	A. P. Chekhov, and Thomas Mann, Eri showing the numeri	d Kuprin) were an ch Remarque, and cal results obtain	Lion Found	
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GACHECHILADZE, T.G. Irreversibility and principle of negative entropy. Trudy Inst. elek., avtom. i telem. AN Gruz. SSR 3:47-50 '62. (MIRA (Information theory) (MIRA 16:5) 時间的建筑的制度



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1 1.107-06 EGE(m) T/ENF(t)/EFE (J)	(e) JB-24			
ACC NR: AR6025782	SOURCE CODE:	UR/0058/66/000)/004/EO39/E	039
WIHOR: Bokuchava, N. V.; Gachechilada	ze, T. G.; <u>Maiva</u>	n1, 0. M.	615	
TTLE: Concerning one model of ordering	ng of an alloy		15	
OURCE: Ref. zh. Fizika, Abs. 4E302			P	
EF.SOURCE: Tr. Tbilissk. un-ta, v. 10)3, 1965, 163-16	3		
OPIC TAGS: ordered alloy, binary allo	y, model theory	, statistic dis	tribution	
BSTRACT: A new ordering model is prop of the lengths of chains consisting of pular chain can be made up of either no a result of a random process. A formul of the lengths of the regular chains. written out in terms of this distributi mple a binary equal-component alloy (1 ion of abstract)	regular pairs. on-decaying regula is obtained for The configuration. The model	At a given tem lar pairs, or pa or the probabil: on free energy of a explained us;	perature, a airs produce ity distribu of the alloy ing as an ex	re- d as tion s is
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ZHGENTI, V.K., akademik; KALANDADZE, N.I.; GACHECHILADZE, TS.V.

Structural state of internal innervation mechanisms of the lungs following a course of treatment in experimental tuberculosis. Soob. AN Gruz.SSR 20 no.5:587-593 My '58. (MIRA 11:10)

1. AN GruzSSR (for Zhgenti). 2. Ministerstvo zdravookhraneniya Gruz.SSR, Respublikanskiy nauchno-issledovatel'skiy institut tuberkuleza.

(LUNGS--INDERVATION) (TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001

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ZHGENTI, V.K., akademik; KALANDADZE, N.I.; GACHECHILADZE, TS.V.

Effect of vitamin B₁ on the course of experimental tuberculosis. Soob. AN Gruz. SSR 24 no. 1:89-94 Ja '60. (MIRA 14:5)

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ZHGENTI, V.K., akademik; KALANDADZE, N.I.; GAC ECHILADZE, TS.Y. Condition of the structures of interorganic innervation mechanisms of the striated muscles in experimental tuberculosis. Soob. AN Gruz.SSR 24 no.4:479-484 Ap '60. (MIRA 13:7) 1. Ministerstvo zdravookhraneniya GruzSS³, Respublikanskiy nauchnoiseledovatel'skiy institut tuberculeza, Tbilisi. 2. AN GruzSSR (for Zhgenti). (MUSCLES--INNERVATION) (TUBERCULOSIS)

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GACHECHILADZE, Ts. V.

Cand Med Sci - (diss) "Study of histochemical characteristics of the oviducts and the uterus in post-embryonic ontogenesis in conception and pregnancy." Tbilisi, 1961. 23 pp; (Tbilisi State Med Inst); 160 copies; price not given; (KL, 7-61 sup, 257)

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930007-3

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KALANDADZE, N.I.; GACHECHILADZE, TS. V.

Effect of caffeine on the course of experimental tuberculosis. Soob. AN Gruz. SSR 32 no. 1:199-205 0 '63. (MIRA 17:9)

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CIA-RDP86-00513R000513930007-3



APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930007-3

25810 S/048/61/025/005/024/024 B117/B201 24,2200 AUTHORS: Kotel'nikov, N. V., and Gachegov, V. I. Magnetic properties of nickel precipitates obtained by the TITLE: method of chemical nickeling Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, PERIODICAL: v. 25, no. 5, 1961, 655-659 TEXT: The present investigation was the subject of a lecture delivered at a symposium on thin ferromagnetic films (Krasnoyarsk, July 4 to 7, 1960). The authors studied the hitherto little known magnetic properties of nickel precipitates of the Ni/P system obtained by way of chemical nickeling (Ref. 1: Gorbunova K. M., Nikiforova A. A., Fiziko-khimicheskiye osnovy protsessa khimicheskogo nikelirovaniya, Izd. AN SSSR, 1960). Nickel was precipitated on the outer walls of soldered copper tubes 4 mm in diameter. The tubes were placed in the bath in vertical position, and 100 mm of their length were nickel-coated; the precipitate was limited by the end of the vinyl tube, to which the copper tube was fastened. A tubular vessel with an inside diameter of 25 mm served for the chemical nickeling operation. Card 1/5÷

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930007-3

25910 S/048/61/025/005/024/024 Magnetic properties of nickel.... B117/B201 To prevent the sclution from evaporating, the bath was sealed with a cork in which a small opening was bored to allow for the escape of the gases evolving in the course of the reaction. A small piece of an aluminum foil (1 by 3 mm) was fastened to the end of the vinyl tube to release the nickeling process. The base (copper tube) was treated both prior to that process and prior to electrolysis. The nickeling of every specimen was completed within 10 hours at 87°C. The bath was renewed every hour, and a homogeneous precipitate structure was thus achieved. Ferromagnetic properties of the specimens were examined on the basis of magnetization curves and the hysteresis loops obtained by a ballistic method. The 50-mm long compensation test coil had an inside diameter of 4.5 mm and an outer diameter of 16 mm. The difference between the coil windings wound differentially to each other was 2035. This as well as the relatively great thickness of the precipitates obtained (over 100 μ) permitted examining the ferromagnetic properties of these precipitates, which were weak compared with pure nickel. The bath compositions are indicated in Table 1 along with data of the specimens concerned. A total of six specimens was studied. Results are collected in Table 2. They are summarized as follows: (1) Ferromagnetic properties of nickel precipitated Card 2/5**尼住与品牌的制**体

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5/048/61/025/005/024/024 B117/B201

Magnetic properties of nickel...

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in the chemical way differ from those of pure nickel markedly, which is in agreement with results found by other authors. (Ref. 1). At room temperature they are considerably weaker for chemically reduced nickel, and are highly dependent on temperature. Beyond 100° C they vanish entirely. (2) An increase of the hypophosphite content in the second bath causes a weakening of ferromagnetic properties. (3) The temperature dependence of I_g, I_r, and H_O has a linear character. Coercive force at a rise of temperature was found to drop more slowly then remanence. The values of coercive force are not proportional to the magnetization of individual specimens. (4) The Curie point in the precipitates obtained is much lower than in case of pure nickel. This is evidently due to the presence of phosphorus in the precipitates. There are 6 figures, 2 tables, and 3 Soviet-bloc references.

ASSOCIATION: Permskiy gos. universitet (Perm' State University)

Card 3/5

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APPROVED FOR RELEASE: 03/13/2001

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GACHEV, B., inzh.

Electrode operators, new level-indicating elements. Ratsionalizatsiia no.2:20-21 '62.

APPROVED FOR RELEASE: 03/13/2001





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GACHEV, B., insh.; DONEV, P. The complete 20kv. shunting installation. Ratsionalizatsiia no.5:24 162.



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GACHEV, B., inzh.

Automatic control of the group rubber conveyor belts. Ratsionalizatsiia no.10:16-17 '62.

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GACHEV, B., inzh.; TRIFONOV, B., inzh.

Starting the synchronous and asynchronous motors at the pumping stations with the aid of a reactor in the station. Ratsionalizatsiia 11 no.12:19-20 '61.

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GACHEV, B., ingh.

Automatic control of ventilation in mine galleries. Ratsionalizatsiia no.11:24 '62.

GACHEN, Bes inzh.

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Complex automation of rediffusion stations. Rateionalizatsiia 13 110,1:24-25 133.

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GACHEV, N. v tekhnicheskom sotrudnichestve s D.Mutavchiyevym ~----A simple, accurate method for determining fibrinogen in blood. Lab. dolo 4 no.2:3-7 Hr-Ap 158. (MIRA 11:4) 1. Is Mauchno-issledovatel'skogo instituta okhrany materinatva i detatva (dir. - S. Kolarov), Sofiya. (FIBRINGEN) and the second second

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GACHEV, E.

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Determining the total protein content of lipemic sera by the biuret test. Lab.delo 4 no.2:8-11 Mr-Ap '58. (MIRA 11:4) 1. Is biokhimicheskoy laboratorii Nauchno-issledovatel'skogo instituta oxrany materinatva i detatva (dir. - S.Kolarov), Sofiya. (BLOOD FROTEINS)

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GACHEV, Emanuil P.

Role of prolactin in the maintenance of the lactose level in milk. Zhur. ob. biol. 24 no.5:382-383 S-0 '63. (MIRA 17:1)

1. Institut pediatrii, Sofiya.

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GACHEV, N.

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Photocolorometric method for gold determination with orystal violet. Min delo 18 no. 12: 35-37 D '63

1. Durzhavno minno predpriiatie "Gorbuso".

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ATORIVE Y F.

Increasing labor productivity of spinners for carded woolen material.

p. 26

LEEF PERSONALCET. Yel. 5, No. 3, 1956

Sofiis, Bulgaria

So. East European Accessions List Vol. 1, No. 9 September, 1936

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CIA-RDP86-00513R000513930007-3

GARCHEVH, TON HEDKOVA, No; GACHEVA, Iordo; BRAILSKI, Khro; TSOKOVA, D. Combined therapy of peptic ulcer with sleep therapy associated with ultraviolet block of the cervical and paravertebral autonomic ganglia. Suvrem. med., Sofia 5 no.5:79-89 1954. 1. Is Klinikata po gastroenterologiia s lechebno khranene (sav. katedrata: prof. T.Tashev i Katedrata po fisieterapiia (sav. katedrata: dots. S.Kircheva) pri ISUL. (PEPTIC ULCER, therapy, sleep ther, with ultraviolet block of autonomic ganglia) (ULTRAVIOLET RAYS, therapeutic use, peptic ulcer, ultraviolet block of autonomic ganglia with sleep ther.) (SLEEP, therapeutic, use, peptic ulcer, with ultraviolet block of autonomic ganglia) (GANGLIA, AUTONOMIC, ultraviolet block in peptic ulcer, with sleep ther.) STATELIANCE AND MARKED IN

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KIRCHEVA, S., prof.; GACHEVA, Iord. na-infinitation

(BACHERS)

Certain cutaneo-galvanic tests as an aid in examination of a patient. Suvrem.med., Sofia 6 no.9:76-79 1955.

1. Iz Katedrata po Fizioterapiia pri ISUL-Sofiia (zav. katedrata: prof. S.Kircheva) (HEFLEX, PSYCHOGALVANIC, cutaneo-galvanic tests as aid in clin. exam. (Bul))

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CIA-RDP86-00513R000513930007-3

GACHEVA, Iord.; KHADZHIEV, Dim.

Effect of ultrasonics on tonus of certain arteries. Suvrem. med., Sofia 8 no.1:95-102 1957.

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1. Iz Katedrata po fizioterapiia pri ISUL. (Zav. katedrata: prof. S. Kircheva) i Katedrata po nervni bolesti pri ISUL (sav. katedrata: dots. G. Mastev). (ARTERIES, effect of radiations, ultrasonics, on tomus (Bul)) (ULTRASONICS, effects, on arterial tonus (Bul))

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ANDREEV, Dim.; GACHEVA, I. Children and the state of the s Treatment of diabetes insipidus. Suvrem. med., Sofia 9 no.4:15-27 1958. 1. Iz Klinikata po vutreshni bolesti s endokrinologiia i bolesti na obmianata pri ISUL (Zav. katedrata: prof. Iv. Penchev) i Katedrata po Fizioterapiia pri ISUL (Zav. katedrata: dots. S. Kircheva) (DIABETES INSIPIDUS, ther. ultraviolet rays paravertebral & autonomic ganglia irradiation (Bul)) (ULTRAVIOLET RAYS, ther. use diabetes insipidus, irradiation of paravertebral & autonomic ganglionin regions (Bul))

APPROVED FOR RELEASE: 03/13/2001

PETROV, At .: GACHEVA, Ior.

Effect of ultrasonics on the arterial tonus in patients with diseases of the peripheral nerves. Suvrem med., Sofia no.11:69-79 '60.

1. Iz Katedrata po nevrologiia pri ISUL (Rukov. na katedrata G.Nostev) i Katedrata po fizioterapiia pri ISUL (Rukov. na katedrata: S.Kircheva)

(NEUROLOGY) (VASOMOTOR SYSTEM physiol) (ULTRASONCS)

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CIA-RDP86-00513R000513930007-3"

KIRCHEVA, S.S.; GACHEVA, I.; KHADZHIYEV, D. (Bolgariya)

Nervous reflex mechanism in the action of ultrasound. Vop. kur. fizioter. i lech. fiz. kul't. 25 no. 5:434-436 S-0 '60. (MIRA 13:10)

APPROVED FOR RELEASE: 03/13/2001

CONTRACTOR DESCRIPTION

CIA-RDP86-00513R000513930007-3

S/194/62/000/008/054/100 ·· D413/D308

AUTHOR: Gacheva, Y.

TITLE: Electro-physiological investigations into the effect of ultrasonic vibrations on certain diseases of the peripheral nervous system

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-5-39 v (Nauchni tr.ISUL, v.8, no. 3, 1961, 1-21 [Bulg.; summaries in Rus. and Eng.])

TEXT: A summary by the author of a dissertation dealing with the results of using ultrasonic vibrations to treat neuralgic illness, neuritis and radiculitis. The investigation was carried out on a group of 136 patients with a control group of 80 healthy subjects. Observation was maintained of the change over a period of time in the excitability of the motor system and skin, the neuromuscular conductivity, and pathological variations in the response of the vegetative system. Excitation was made by a single irradiation. From analysis of the clinical material collected, the author draws positive conclusions on the prospects for the use of ultrasonic Card 1/2

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s/194/62/000/008/054/100 D413/D308 Electro-physiological investigations ...

therapy in the treatment of the complaints mentioned. It is shown that ultrasonic vibration has a normalizing action in asymmetrical . disturbances of the functions of the vegetative system, in asymmetry of arterial tapus [Abstracter's note: Transliterated, meaning of word not known], heightened sensitivity of the skin to ultraviolet radiation, etc. (ISUL, katedra po fizioterapiya i kurortologiya, Bolgariya,) [Abstracter's note: Complete translation] Bolgariya.) [Abstracter's note: Complete translation.]

Card 2/2

1055

GACHEVSKIY ρ.

BULGARIA / Chemical Technology. Dyeing and Chemical H-34 Treatment of Textile.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 79953.

Author : Gachevski, P.

Inst : Not given.

: How To Avoid Defects in a Process Carbonization. Title

Orig Pub: Leka promyshlenost, 1957, 6, No 4, 13-17.

Abstract: The major causes for defects during carbonization are: non-uniform concentration of sulfuric acid solution on a fabric and the formation of precipitates of fatty acids (from soap) or sulphates (from hard water). It is important to use for rinsing fabrics only synthetic preparations and acid solutions with the least low concentration (it is feasible to substitute the acid with

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BULGARIA

GACHEVA, Y., TSVETANOV, K., Chair of Physiotherapy and Balneology, Director Prof. V. Mikhailov, ISUL /Institut za spetsializatsiya i usuvurshenstvuvane na lekarite; Institute for the Specialization and Advanced Study of Physicians 7; Chair of Neurology, Director, Docent P. Ovcharova, ISUL.

"Treatment of Fost-Apoplectic Hemiplegic Patients By Electric Stimulation with Low-Frequency Pulse Currents"

Sofia, Nevrologiya, Psikhiatriya i Nevrokhirurgiya, Vol 4, No 6, 1965, pp 447-452.

with low-frequency pulse currents Electrotherapy Abstract: according to a method developed by Gacheva was applied to 25 patients 20-70 years old with hemipareses and hemiplegias in consequence of apoplectic strokes due to thromboses, embolisms, and hemorrhages in the brain. Starting from the principle of recipro-cal action of flexors and extensors, attempts were made 1) to suppress the pathologically increased excitability and lability of the principal muscles (responsible for the Wernicke-Mann posture), while at the same time obtaining a reciprocal activation of the nerve centers of the extensors of the hands and flexors of the legs, resp.; 2) to stimulate antagonist muscles with a view of producing reciprocal inhibition of the spastic hypertonic muscles. The response of spastic paretic patients to the application of pulse currents varied; preliminary electrodiagnosis was found 1/2

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AUTHOR : INSTITUTE : TITLE : ORIG. PUB. :	BULGARIA Chemical Technology. Chemical Products and Their Applications. Dyeing and Chemical Treatment of * RZikhim., No 17, 1959, No. 63141. Cachevskil'P. Causes of Certain Defects in the Dyeing of Wool and Their Elimination. Leka promishlenost. Tekstil, 1958, 7, No 4, 19-21 : Characteristics and analysis of causes of the uneven dyeing of wool, arising from improperly conducted pretreatment operations and also ari- sing from defects in the raw wool are presented. I. Fodiman.
Card:	*Textile Materials. 1/]





GACHILOV, T., inzh.

A new model of the homemade refrigerator "Mraz-80." Mashinostroene 11 no.2:43-44 F '62

1. Durzhaven khimichen zavod "Anton Ivanov," Sofia.

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L (1019-56 EWT(d)/EWP(*)/EWP(k)/EWP(L) OD/BC ACC NR: AT6017623	
AUTHOR: Gachinskiy, E. Ye.; Makarovskiy, S. N. 53 B+1	
ORG: none	<i>.</i>
TITLE: Industrial automatic optimizers of the Institute of Automation and Tele- mechanics	
SOURCE: Vsesoyuznaya konferentsiya po teorii i praktike samonastraivayushchikhsya sistem. 1st, 1963. Samonastraivayushchiyesya sistemy (Adaptive control systems); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 441-444	٩
TOPIC TAGS: computer memory, signal generator, optimal control ABSTRACT: Single channel, special purpose 1A01-1 and 1A01-2 type <u>optimizers</u> designed for finding the extremum of a function of one variable are described. Different ver- sions of these two types of optimizers have been built for use in various industrial applications. The optimizers are shown in figures 1 and 2.	
$\begin{array}{c c} & \text{optimizer} & \text{Onmunusamon} \\ & \text{All} & \text{y}_{3} & \text{optimizer} & \text{Onmunusamon} \\ & \text{Jy}_{1} & \text{Jy}_{2} & \text{Jy}_{3} & J$	-
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GACHINSKIY, P. P.

GACHINSKIY, P. F. "Reg latory rheostats of the RSh type", Elektrosila, No. 5, 1946, p. 57-59.

SO: U-30h2, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No.7 19h9).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930007-3"

S/138/61/000/001/008/010 A051/A029

AUTHORS: Gachinskiy, R., Stempen', M.

TITLE: Chromatographic Method for the Determination of Certain Vulcanization Accelerators

PERIODICAL: Kauchuk i rezina, 1961, No. 1, pp. 33-37

TEXT: This is a translation into Russian from the Polish journal Przemyst Chemiczny, 1959, Vol. 38, No. 9, p. 571. The purpose of the work conducted by the authors was to develop a chromatographic method of analysis of various accelerators when they are present together with neozone D in the rubber mixtures. An attempt was also made to find a means for decomposing certain accelerators and determine the conditions of chromatography for the products of the decomposition. The investigations of Zijp (Ref. 7) and Miksch and Frölss (Ref. 8) were taken as the basis of the chromatographic method. The main subjects of the investigation were 6 accelerators widely used in the Polish rubber industry: captax, altax, BT sulfenamide, thiuram, R-extra N, DFG and the anti-oxidant-neozone D. The method of circular paper chromatography was chosen due to its simplicity and ease of application in

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Chromatographic Method for the Determination of Certain Vulcanization Acce-

industry instead of chromatography on columns. In selecting the solvents, the chemical properties of the substances to be separated had to be considered. In determining the accelerators of an acidic nature the following solvent was used: isopropyl alcohol - 25% ammonia water-chlorobenzene in the ratio 45:10:45 (volume parts). This solvent ensures a high rate of transmission on the paper, stability, the ability to transmit the plasticizers to the solvent front and to retain water in the organic phase. In separating substances of an alkaline nature, it is recommended adding acids (such as acetic acid) to the solvent. The following solvent composition was used for accelerators of an alkaline nature: n-butanol-acetic acid-water in the ratio 4:1:5 (vol. parts). Bismuth nitrate was used for determining compounds of the mercaptobenzothiazol class, and ninhydrin:

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was used for determing or identifying amines formed in the decomposition of Card 2/7

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Chromatographic Method for the Determination of Certain Vulcanization Accelerators

compounds of the carbamate, thiuram and sulfenamide type. In order to detect carbamates and thiurams, copper salts were used as well as bromophenol blue - diphenylguanidine and phenyl- β -naphthylamine - n-nitroaniline chloride in combination with sodium nitrite. The technique of chromatography was as follows: a paper disk was placed on a Petri cup so that the strip cut and bent in the middle would be submerged in the solvent in the Petri cup. The investigated solution was introduced on the base of the bent paper (filter paper Wattman No. 3 and No. 4 were used). The measurements were conducted at room temperature. The chromatography lasted 20 - 60 min, depending on the type of paper used and the nature of the solvent. The obtained chromatographs were dried at room temperature for 30 min or by a flow of warm air for several minutes, then they were developed and processed with the corresponding reagents. In order to determine the individual accelerators an acetone extract was obtained which was evaporated to a volume of 2 - 3 ml and transferred to the paper with a pipette and chromatographed with the solvents mentioned. Altax was determined after its reduction to mercaptobenzo-

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S/138/61/000/001/008/010 A051/A029

Chromatographic Method for the Determination of Certain Vulcanization Accelerators

thiazol with sodium sulfite, since altax itself gives no color reactions. Since BT sulfenamide also gives no color reactions, it was decomposed in an acidic medium to mercaptobenzothiazol and diethylamine which was determined with ninhydrin. The accelerators and neozone D in the rubber mixture were determined by the following method: two separate weighed portions of 7 g each were extracted with acetone at room temperature. One extract was evaporated until dry and the residue dissolved in ethyl alcohol at room temperature. The chromatography on the first disk containing the analyzed solution was carried out using a solvent consisting of n-butanol, acetic acid and water (ratio 4:1:5). The accelerator was determined using the compositions: bromophenol blue - diphenylguanidine and n-nitroaniline chloride in combination with sodium nitrite - phenyl- β - naphthylamine. In the other disk a solvent of the following composition was used: isopropanol-ammonia-chlorobenzene and the accelerator was identified: a) with a 1 %-solution of bismuth nitrate-mercaptobenzothiazol and b) with a 5 %-solution of copper-sulfate-thiuram. A qualitative analysis was further carried out of the various

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CIA-RDP86-00513R000513930007-3

S/138/61/000/001/008/010 A051/A029 Chromatographic Method for the Determination of Certain Vulcanization Acceaccelerators in vulcanizates. It is pointed out that most accelerators undergo strong chemical transformations during vulcanization, rendering their analysis in the rubber mixture impossible. The following method was developed: mercaptobenzothiazol and dibenzothiazolyldisulfide were determined by the same method as that of altax in a rubber mixture. The indentification of BT sulfenamide, DFG and neozone D was carried out in the same way as for a rubber mixture. The thiuram identification was based on the decomposition of dimethyldithiocarbamate by HCl and the determination of dimethylamine formed using ninhydrin. The determination of the amines formed was carried out by measuring the Rf coefficient, the value of which is different for diethylamine and ethylphenylamine. Finally, a determination was made of the combined presence of accelerators and phenyl- β - naphthylamine in the vulcanizates. Table 2 lists the solvents and color developers used in the chromatographic analysis of the vulcanizates and also the color of the obtained chromatograms and the values of Rf. The method developed for the determination of the accelerators and neozone D is considered to be simple and Card 5/7

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S/138/61/000/001/008/010 A051/A029

Chromatographic Method for the Determination of Certain Vulcanization Acce-

fast, since it helps to determine 6 of the most widely used accelerators in rubber mixtures within a few hours, using a small amount of reagents and simple apparatus. The determination of captax and altax in the vulcanizates is done by determining the presence of mercaptobenzothiazol, the origin of which is still unknown. The authors consider it expedient to develop a method of quantitative analysis of accelerators in the future. There are 2 tables and 12 references: 2 Soviet, 5 English, 5 German.

ASSOCIATION: Institut rezinovoy promyshlennosti, Pol'skaya Narodnaya Respublika (Institute of the Rubber Industry, Polish People's Republic)

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CIA-RDP86-00513R000513930007-3"

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Chromatographic Method for the Determination of Certain Vulcanization Acce-Table 2: Results of the share .

determined	solvent	blic analysis of color developer		color of chromato- gram
mercaptobenzothia zol	-isopropyl alcohol -ammonia-chloro- benzene in the ratio 45:10:45	1 % solution of bismuth nitrate	0.9	Orange
dibenzothiazolyl- disulfide	11	11	0.9	n
benzothiazolyl- sulfenediethyl amide	n-butanol-acetic acid-water in the ratio_4:1:5	1 % solution of ninhydrin in acetone	0.55	violet
tetramethyl- thiuramdisulfide	1	"	0.35	rose-grey
zincethylphenyl- dithiocarbamate	n	ñ	0.85	brown-grey
diphenylguanidine phenyl naphthy-	11	bromophenyl blue	1.0	light blue
lamine	•	n-nitroaniline chloride + sodium nitrite	1.0	red-violet V
Card 7/7	•	1		

GACHINSKIY, R.; STEMPEN', M.

Chromatographic method of determining certain vulcanization accelerators. Kauch. i rez. 20 no.1:33-37 Ja '61. (MIRA 14:3)

1. Institut rezinovoy promyshlennosti, Pol'skaya Narodnaya Respublika. (Vulcanization)

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CIA-RDP86-00513R000513930007-3

GACHINSKIY, USSR/Cultivated Plants - Technical Oleaceae, Sugar Plants M-7 Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1684 : Ye. Gachinskiy Author : Not Given Inst : Single-Seeded Sugar Beets Title Orig Pub : Kolkhoznoy: proizvodstvo, 1957, No 3, 42-43 Abstract : No abstract : 1/1 Card APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930007-USSR / Cultivated Plants. Technical. : Ref Zhur - Biologiya, No 2, 1959, No. 6378 Abs Jour : Gachinskiy, Author : Not given Inst : The Sugar Boet Title : Nauka i peredovoy opyt v s.-kh., 1958, No 6, Orig Pub 73-76 : This is a brief outline of the development of the sugar beet production in USSR from the Abstract end of the 18th century up to the present.

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科学行政的研究

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ACCESSION NR: AP4045683 R/0003/64/015/008/0510/0513 25	
AUTHOR: Moldovan, I.; Moscovici, Ana; Teodorescu, C.; Gactu, V.	
TITLE: A semi-industrial installation for the manufacture of high-purity germanium	
SOURCE: Revista de chinie, v. 15, no. 8, 1964, 510-513	
TOPIC TAGS: germanium refining, germanium purification, germanium semiconductor. germanium tetrachloride, germanium dioxide, zone melting, 8	
ABSTRACT: A procedure is described for obtaining the high-purity germanium nec- cessary in the manufacture of semiconductors for the electronics industry. The starting material is mineral germanium concentrate or germanium wastage from the manufacture of semiconductors. The process involves the following steps: A) The mineral concentrates are treated with HCl and the wastage with chlorine gas. Ger- manium tetrachloride is obtained in both cases, according to the reactions: Ge O_2 + HCl = GeCl ₄ + H ₂ O + 42.4 KCal, and Ge + 2Cl ₂ = GeCl ₄ + 130 Kcal. The ger- manium tetrachloride is then distilled, starting at 83C, and collected as a trans- parent oily liquid (density = 1.88). B) Germanium tetrachloride is purified by fractional distillation in a column of quartz glass and separated from most of the metal chlorides having a higher or lower boiling point (FeCl ₄ ; AlCl ₃ ; CuCl ₂ ; MgCl ₂ ;	
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ASSESSMENTS:

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ACCESSION NR: AP4045683 SbCl3; BCl3; AsCl3; SiCl4). C) The pur Impurities) is then hydrolized in deion according to the reaction: GeCl4 + 2H is dried at 120C and subsequently calc	fined in an autoclave at	250 C. E) The	
calcined germanium dioxide is then reduct of metallic germanium is then melted a with a resistance of 5-13 ohm.cm, corr the purification is increased by zone- product having a resistance of >50 ohm This high-ourity germanium is very sui	uced with hydrogen at 05 t 1000 C, resulting in m responding to 1 p.p.m. im melting, resulting in a toom impurities of 10 ⁻¹⁵ table for the manufactur	etallic germanium purities. G) Finally, polycrystalline - 10 ⁻¹⁴ atoms/cc.	
Orig. art. hau: 6 figures, 4 tables a	nd 2 formulas.		
Orig. art. han: 6 figures, 4 tables a ASSOCIATION: Nome	encl: 00	SUB CODE: IC, HH	-
Orig. art. hau: 6 figures, 4 tables a	nd 2 formulas.		

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1.Glavnyy inshener slushby dvisheniya Severo-Kavkasskoy dorogi. (for Gachkovskiy). 2. Glavayy inshener slushby signalizateii i svyasi Severo-Kavkasskoy dorogi (for Strizh). (Railroads--Switching)

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Northern Caucasus Railroad] Opyt organizatsii dvizheniia poezdov pri dispecherskoi tsentralizatsii; iz praktiki Severo-Kavkazskoi dorogi. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 20 p. (MIRA 14:7)

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Thermic Constants in High Temperatures

II - Thermic Expansion of Rock Salt

ZhETF 7, 526, 1937

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TORSE KANTAN DARACTERANS

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Fluorescentes of magnesium phthalosynaine and of chlore phyll in different states. Effect of expression on the fluores-phyll in different states. Effect of expression and of chloresphyll in the adsorbed state. V. F. Gachkovskii. Dohlady Ahad-the adsorbed state. V. F. Gachkovskii. Dohlady Ahad-land S. S. R. 70, 51 (1939). Absorption and fluores-consequentias of Majohthalosynaine and selection MgO (from built) and a solution of the bands. In the adsubit on MgO (from built) and a solution of the bands. In the adsubit state, the whole band system is shifted to sharter waves as one parent with the soln. In eventation with 3000 A, the out parent with the soln. In eventation with 3000 A, the out parent with the soln. In eventation of the fluorescence of the endor, becoming dafk ted upon admission of O. This effect redue parily to a fluorescence of Mg phthalo-regamine, but mainly to a quenching by O₀ of the proper fluorescence of the adsorbert MgO in the blue region of the assert adsorbate fluorescence and of the carrier, the interval and 2n(). The observes thousescence of Mag phthalo-regamine, but mainly to a superposition of the adsorb-difference is quenched by O. Small enters of the attent is actually the result of a superposition of the interva-tion scenario is quarked with a signification of the proper emission of the adsorbert and statesce and of the carrier; the interval fluorescence is quenched by O. Small enters of the magnetized of this effect mere-seen with the temp of the interva-mines to increasingly higher O, pressure. Hervisit that max further mereases of the O₀ pressure produces quench the fluorescence up to the merease of the interva-tion of O₀ at 20° results to a further increasing the fluorescence up to the merease of the interva-tion of the experiments at the merea, but on further decemption of these operations in bath directions gives rise to reversible

rejettion of the same phenomena. If the advertise is heated in theorem a light temp (1011), the fluorescien-ing again on admixed of a very small anti, of O_{1} at fluor-ing again on admixed of a very small anti, of O_{2} at fluor-time stime phenomena are observed with outgassed and substread theorem are observed with outgassed and on the fluorescience is a lineates of the pressure of the new of theorem are observed with outgassed and the fluorescience is a lineates of the pressure of the new of theorem and the states of the pressure of the result of boost pressures. The up excurs also under the algorithm of values of different one counside, such as 1 (011). EtdO, and MerCO. Heating above 1021 gives rise to do enough of the chlorophyli, evidenced by the appearate of a kind at 102,5 ma belonging to absorbed Mg perplying, this effect begins at about 100⁵. The interarty-increasing effect of O₁ (and the one counsile, mentioned) may be ex-plained by a de-dimentization of the absorbed mds, through that also the central Mg atom, which removes the self-appears to be due to an attack on the astrong and so the a-string of the charter exploration may be based on the a-string of the dimense Quero hung by greater ants of O₁ appears to be due to an attack on the absorbed mds, through and an alterative exploration may be based on the a-string of so quero, hand ant so (O) the absorbed mds, the self-appears to be due to an attack on the absorbed mds, the a-string of a quero, hand anties of O (1010) and a transitive exploration of the absorbed who is to an alternative exploration may be based on the a-string distribution of the absorbed mode, at Aand point and an track on the exploration who is a counteracted by small anties of O (1010) and a state of A and formative exploration of such complexes, which are restored and and possibility is that the fluorescience of the absorbed mode, er O_1 and graving distribution of such complexes on A.

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Procressence of magnesium philalscynnine and chlerophyll is different states. Structure of the absorption and bucrescence spectra of magnesium porphyrin and chlerophyll. V. F. (Bechlovskii (A. N. Back Iast. Bischem., Moscow). Doblady Abad. Neak S.S.S.R. 78, 407-10 (1960), cf. C.A. 44, 6218; 45, 415.—Outpussing of a chlorophyll adorbate on MgO at 200°, for 2 hers, results in decompn. of approx. δU_{20}^{*} of the original chlorophyll (1) and formation of the corresponding ant. of adsorbed Mg parphyrin (11). Treatment of such a partially decompiadsorbate with a trace ant. of the vapor of the original solvent, e.g. $10^{-4}.10^{-4}$ mm. Hg of BiOH, Bro, MeyCO (but not well-purified Calls), or of H₂O, cor COs, produces a fare-up of the fluorescence, showing, along with the band characteristic of I, with approx, equal intensities. In analogy with the spectrum of Mg phthalocyanin (III), the differences of the wave no. of bands correspond to vibration quanta, and the fluorescence and absorption spectra are related by specular reflection, with the intensities decreasing with decreasing trequency. Consequently, the spectra of adsorbates of all 3 substances, I, II, and III, have the same electronic-vibrational mature. The specular symmetry of the fluorescence and absorption spectra is imperfect in the sense that the vibrational sublevels appear compressed in Buorescence, and pascel in absorption. The transition A_1 from the ground state to the higher excited level, which gives rise to the fluorescence in a Buorescence. The transition A_1 from the fluorescence mat. at, resp., 14,009, 16,130, and 14,700 cm., ⁻¹ are due to transitions Φ_1 from the lower excited level to the ground state. The whole electronic-vibrational fluorescence spectrum is detd. by the transitions Φ_1 , Φ_2 , Φ_2 , Φ_3 , Φ_4 , etc., from the lower excited level to the interpretation of Rainowitch (C.A. Φ_1 , 4284⁹), it is assumed that hydrogenation of one enhibition due to the action state I, hydrogenation of the excited level, but in a decrease of the energy of the visiting the next in a leverase to a further shift towards the next infrared. The fact that beating of the adsorbate gives rise to the reverse shift inductive line in the lower sectical level and the transitionary of the excited level is the transitionary of the excited level is the the action of the transition of the respective to the the section state I, hydrogenetics of the excited level, but in a decrease of the energy of the visiting term of the section state I. Additional time is the section of the transition of the later that the transition of the state gives rise to the reverse shift indicates that a temps, around 200⁵, the semi-isolated double bond in the the provement states of the stating of the administer of the state only the bond between the central Mg atom and the closed purphin ring system. N. Thon

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GACHECVSKIY, V. F.	FA 242T20	
bond also plays a part in the interaction between the O and Mg. He describes, then, the addm of an atom of H to the O complex of magnesium pathalo- atom of H to the O complex of magnesium pathalo- bin to suggest that if, in the above case, the central Mg atom is a catalyst with respect to the any other system capable of bringing one of the positive ion. This conception, the author be- lieves, can explain even the origin of the con- also possibly explain, he adds, the mechanism of the course of redox reactions in the process of photosynthesis. 242T20	<pre>USSR/Chemistry - Oxidation-Reduction Nov 52 Processes The Role of the Magnesium Atom During Obscure Reactions of Oxidation Catalyzed by Magnesium Reactions of Oxidation Catalyzed by Magnesium Reactions of Oxidation Catalyzed by Magnesium Reactions of Biochemistry im A. N. Bakh, Acad Sci USSR The suthor cites previous expts by himself and others to indicate the great chem reactivity of 0 complexes towards Mg. The activity of the 0 mol can be explained, he adds, by the state of the mols atom which, as the coordinating center of the mols atom which, as the coordinating center of the mols at positively charged ion. Thus a covalent 242T20</pre>	

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