BRYUNETTI, B.Ye.; KOVTUN, A.A.; KUZNETSOV, N.S.; RASPOPOV, O.M.; CHICHERINA, N.D.; YANOVSKIY, B.M.

> Studying the structure of the Central Rubsian Department of 1645 magnetotelluric method. Uch. zap. LGU no.324:3-16 1645 (MIRA 18:4) Studying the structure of the Central Russian Depression by the

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L 35360- <u>66</u> EWT(1)	GW/JT	• • • • •
ACC NR: AP6005330	SOURCE CODE: UR	/0413/66/000/001/0068/0068
Bryunelli, B. Ye. ORG: none TITLE: Device for ponents of the eas No. 177561 [annous for Geophysical M	yev, A. M.; Berdichevskiy, M ; Lantsov, A. Ye. c simultaneous registration of th's natural electromagneti faced by the All-Union Scient ethods of Prospecting (Vseso institut geofizicheskikh	of variations of 5 com- c_field. Class 21, ific Research Institute yuznyy nauchno-
Mytisachino Instr priborostroitel'n	ument Manufacturing Plant (M	fytishchinskiy
SOURCE: Izobrete 1966, 68	niya, promyshlennyye obrazts	sy, tovarnyye znaki, no. 1,
TOPIC TAGS: eart magnetic variation	h magnetic field, electromag	, geophysic instrument
simultaneous regi	hor Certificate has been iss stration of variations of 5 gnetic field, using the magn	sued describing a device for components of the earth's netotelluric method.
Cord 1/2	UDC: 621.389.550	0.837.6



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SOURCE CODE: UR/3174/66/000/057/0107/0119 ACC NR: AT6016063 ______(1)/FCO___ GM (N)47 AUTHOR: Bryunelli, B. Ye. (Doctor of physico-mathematical sciences) 46 Leningrad State University (Leningradskiy gosudarstvennyy universitet) BH ORG: TITLE: Basic results of geophysical investigations in the high latitudes SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955. Informatsionnyy byulleten', no. 57, 1966, 107-119 TOPIC TAGS: geomagnetic field, geomagnetic disturbance, Antarctic climate, solar wind, magnetic storm, magneto sphere ABSTRACT: Geomagnetic activity in Antarctica is surveyed on the basis of Soviet and foreign literature published in 1958-1964. Maps of magnetic activity as a function of blackouts (Ben'kova and Yudovich, 1961) are presented. The author also discusses the distribution of magnetic field variation (S_q^p) (Nagata, et al, 1963), the motion of ne_q gative charges in the magnetosphere (Axford and Hines, 1961), and the shifting of equal f_0F_2 lines in the current area of the S_q^p system. The review shows that 1) the geophysical events observed on the earth's surface are connected with cosmic processes and thus, can serve as an aid in understanding cosmic processes; 2) high latitude geo-Card 1/2

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BRYUNETKIN, M.G.; DOBROKHOTOV, A.A.

Increasing the durability of open-hearth furnace crown. Metallurg 6 no.11:13-17 N '61. (MIRA 14:11 (MIRA 14:11)

1. Chelyabinskiy metallurgicheskiy savod. (Open-hearth furnaces-Design and construction)

BRYUNETKIN, M.G.; GISS, A.N.; KICHA, I.N.; SHOTIN, V.S.; KROPACHEV, V.F.

Using ground powders in the repair of open-hearth furnace hearth bottoms. Metallurg 8 no.4:27-28 Ap '63. (MIRA 16: (Open-hearth furances-Maintenance and repair) (Refractory materials) (MIRA 16:3)

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DOBROKHOTOV, A.A., inzh.; PANCHENKO, A.G., inzh.; SAVEL'YEV, D.N., inzh.; KOPLENKO, Ye.A., inzh.; BRYUNETKIN, M.G., inzh.; KFAVTSOV, N.F., inzh.; TIMOFEYEVA, R.G., inzh.

Improving the performance of open-hearth furnaces. Stal! 23 no.4: 304-308 Ap 163. (MIRA 16:4)

(Open-hearth furnaces)

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CIA-RDP86-00513R000307130005-2

BRYUNETKIN, M.G.; VORONTSOV, S.P.

روي محموقو الدار المرم محمولا مطلقه

Increasing the durability of open-hearth furnace roofs. Metallurg 10 no.1:18-19 Ja '65. (MIRA 18:4

1. Chelyabinskiy metallurgicheskiy zavod.

KHOROSHAVIN, L.B.; PEREPELITSYN, V.A.; ZHUKOV, A.V.; MOROKOV, P.K.; MAKRUSHIN, V.V.; BARTOLISH, D.M.; BRYUNETKIN, M.G.; VAYNSHTEYN, O.Ya.; GISS, A.N.; SHLL'KIN, M.A.; SHOTIN, V.S.

> Use of metallurgical magnesite powder burned at low temperature. Stal' 25 no.12:1086-1088 D '65. (MIRA 18:12)

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ACCESSION NR: AP4031757 AUTHOR: Budnitskaya, Ye. V.; Bryunfo, M.; Errera, M. TITLE: Effect of radiation on RNA and RNA metabolism in human cancerous tumor cells SOURCE: Voprosyst meditsinskoy khimii, v. 10, no. 2, 1964, 179-184 TOPIC TAGS: X-irradiation effect, RNA radiosensitivity, RNA metabol- cytidine-H3 incubation, radioautographic method, cell nucleolus, cell protoplasm, inhibited RNA synthesis, RNA synthesis restoration metabolism were investigated in labelled cancerous tumor cells (HeLa cells) in two experimental series. In the first series, groups of HeLa cells were incubated for 10 min, 60 min, and 24 hrs in a medium fixed and prepared for radioautographic investigation the cells were RNA radiosensitivity by the number of granules in the nucleolus, Card 1/3	A second se	
	AUTHOR: Budnitskaya, Ye. V.; Bryunfo, M.; Errera, M. TITLE: Effect of radiation on RNA and RNA metabolism in human SOURCE: Voprosy* meditsinskoy khimii, v. 10, no. 2, 1964, 179-184 TOPIC TAGS: X-irradiation effect, RNA radiosensitivity, RNA metabol- ism, cancerous tumor cell, HeLa cell, tritium labelled cell, protoplasm, inhibited RNA synthesis, RNA synthesis restoration ABSTRACT: The effects of X-irradiation on RNA radiosensitivity and metabolism were investigated in labelled cancerous tumor cells (HeLa cells) in two experimental series. In the first series, groups of HeLa cells were incubated for 10 min, 60 min, and 24 hrs in protopiasi	1. 1. 1.

ACCESSION NR: AP4031757

nonnucleolus part of the nucleus, and the cytoplasm, and the total number of granules in a cell (30 cells counted in each sample). In the socond series, groups of HeLa cells were first X-irradiated with single 100, 300, and 900 r doses and then incubated for 10 min, 60 min, and 4 hrs in a medium containing cytidine-H^J. Radiosensitivity and migration of labelled RNA from the nucleolus into the cytoplasm of the cell were determined by radioautographic investigation as in the first series. Results show that RNA is radiosensitive immediately after formation and nucleolar RNA is more sensitive than the rest of the nucleus. Depressed RNA radioactivity in irradiatod cells incubated in a cytidine-H^J medium for a short period indicates that injury of the RNA synthesis mechanism is restorable. Migration of labelled RNA from the nucleus into the cytoplasm is inhibited in cells incubated in a cytidine-H^J medium before irradiation and then transferred to a nonradioactive medium. RNA synthesis and related processes appear to be radiosensitive and restorable, but the inhibiting and restoring mechanisms of RNA synthesis are difficult to explain at this time. Orig. art. has: ... 3 tables.

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ACCESSION N	R: AP4031757	•	•	· .		
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CHECKER STREET

369h9 S/142/61/004/006/014/017 E192/E382

7.7000 AUTHOR: Bryunin, V.N.
TITLE: High-speed computing device based on junction diodes
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 4, no. 6, 1961, 723 - 726
TEXT: A computing device based on the principle similar

TEXT: A computing device based on the principle billed to that of ring counters is described. A block schematic of the system is illustrated in Fig. 1. The input signals are amplified in the pre-amplifier YC and are applied to a gating circuit KC and a phase separating network consisting of diodes  $A_1$  and  $A_2$ . The positive input pulses are simultaneously applied to the inputs of all the odd coincidence circuits  $(C_1, C_5, \cdots, C_{n-1})$ , while the negative ones are fed to even coincidence circuits  $(C_2, C_4, \cdots, C_n)$ . The first coincidence circuit  $C_1$  is actuated by the first input pulse and produces a signal which is applied to the input of the second coincidence circuit  $C_2$ . If the duration of the output Card 1/4

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High-speed computing device ....

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pulse taken from  $C_1$  is greater than half the period of the input signal,  $C_2$  is triggered at the instant of the appearance of the negative pulse and thus prepares the circuit  $C_3$ for triggering. In this manner alternate input positive and negative pulses result in successive triggering of the coincidence circuits. By applying the output pulse from C_n to the input of  $C_1$  , the output pulses can be counted, the division ratio being:

$$K = 2f/n \tag{1}$$

where f is the frequency of the input signal and n is the number of coincidence circuits. The number of input pulses can be read on the counter circuit  $\eta_{C}$  and the indications of the trigger circuits  $T_{1} - T_{n}$ . The coincidence circuits in the above computing device can be Card 2/4

High-speed computing device ....

s/142/61/004/006/014/017 E192/E382

based on diode amplifiers with transformer loads. The operating speed of such a circuit can be considerably increased if cathode followers based on vacuum tubes are employed instead of transformers. The above method of counting the pulses is advantageous in that if offers a comparatively simple means of achieving high-speed operation. Thus, by employing a circuit with diodes and vacuum tubes it is possible to operate at frequencies of 20 Mc/s. Further, by combining high-frequency transistors and electron tubes in the above system, it should be possible to increase their operating speeds to tens of megacycles. The system can also be used as a stable delay line, a secondary frequency standard or a time-marker generator. There are 5 figures.

Kafedra elektroniki Moskovskogo inzhenerno-ASSOCIATION: fizicheskogo instituta (Department of Electronics of the Moscow Engineering-physics Institute)

March 31, 1961 SUBMITTED:

Card 3/4

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المالي S/108/62/017/010/002/002 D201/D308

9,434 ⁶ AUTHOR:	Bryunin, V.H.	а. Ц. . К.
TITLE:	Diffusion capacitance of the p-n junction of junc- tion diodes	
PERIODICAL:	Radiotekhnika, v. 17, no. 10, 1962, 45-51	
and silicon jun rectangular var triggers the re The measuring c tor R _L , a capac ward bias resis equivalent circo iunction capaci	The method, circuit diagram and the results of mea- usion capacitance of the p-n junction of germanium action diodes at high level signals are given. A riable length and amplitude pulse current generator everse bias generator through a variable delay line. circuit consists of the diode under test, load resis- citance $G_L$ which includes all the strays, and a for- stor $R_1$ . The measuring circuit is replaced by its cuit and the character of changes of the total p-n itance is determined after the ending of the forward The following germanium type diodes were analyzed 10) $A7A$ (D7A), $A7\Gamma$ (D7G), $A7A$ (D7D) and $A7M$	
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Diffusion capacitance ....!

## S/108/62/017/010/002/002 D201/D308

(D7Zh), also the following silicon types: A 202 (D202), D203, D205 and D211, together with 10 samples of germanium triode transis-. tor  $\square 2A$  (P2A). Measurements were carried out within -50 to +50°C. Conclusions: 1) The magnitude of diffusion capacitance may be determined from the analysis of transients in a measuring circuit based on a diode amplifier with capacitive load. 2) For the forward current pulse durations  $\leq 3\mu$  sec to the initial magnitude C₀ of the diffusion capacitance depends linearly on the quantity of electricity transferred through the junction in the forward direction. 3) After the end of the forward current pulse the diffusion capaci-tance decreases as  $\exp C_0 c - \frac{t}{R}$ , where k is the time constant of the decrease of this capacitance. 4) The proportionality factor in the linear increase of the  $C_0$  with respect to the quantity of electricity and the coefficient k are independent of the forward current pulse parameters and determined only by the 'internal' properties of the junction. 5) The spread in the values of the above two coefficients does not exceed 15 to 20% for all types of diodes in a temperature range -50° to + 50°C, which shows a good stability of the diffusion capacitance. 6) The equivalent circuit for the Card 2/3

Diffusion capacitance ...

S/108/62/017/010/002/002 D201/D308

reverse conductance of a p-n junction under a forward current pulse may be approximated by the parallel connection of the diffusion and depletion-layer capacitances and the constant reverse resistance of the barrier-layer. 7) The effect of the hole storage in the base may be represented by a simple expression for the diffusion capaci-tance, valid for both low and high-level signals. 8) Taking into account the effect of diffusion capacitance on the reverse conductance of a junction diode makes possible an exact design of practical pulse circuits and diode amplifiers. There are 6 figures.

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October 27, 1961 SUBMITTED:

Card 3/3

BRYUNO, A.D.

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Decomposition of algebraic numbers into continued fractions. Zhur. vych. mat. i mat. fiz. 4 no.2:211-221 Mr-Ap ¹64. (MIRA 17:7)

CIA-RDP86-00513R000307130005-2

L 48295-65 EWT(d) Pg-4 IJP(c) UR/0038/65/029/002/0329/0364 UCCESSION NR: AP5010669 AUTHOR: Bryuno, A. D. TITLE: Power asymptotics of solutions of nonlinear systems B SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 29, no. 2, 1965, 329-364 TOPIC TAGS: differential equation, asymptotic solution ABSTRACT: The author studies  $\frac{dz_1}{f_1(z_1, \dots, z_n)} = \cdots = \frac{dz_n}{f_n(z_1, \dots, z_n)}$ (1)where  $f_i = x_i \sum_{j=1}^{n} a_{jj} x_1^{q_{j1}} \dots x_n^{q_{jn}}$ ,  $a_{j1}$  and  $q_{jk}$  are real, and solves the problem of finding the power asymptotics of (2)  $x_i = b_i x^{p_i}, \quad i = 1, \dots, n.$ for all solutions of (1) which can be written in the form  $(x_i = b_i \tau^{p_i} (1 + o(1)))$  $b_i \neq 0, i = 1, \dots, n$ . Here  $b_i$  and  $p_i$  are arbitrary real,  $\sum p_i^* \neq 0$ . While not considering existence of solutions of (1), he shows how to obtain the set containing Card 1/2

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L 48295-65 CCESSION NR: AP50106	ί <b>ζο</b>	<u>،</u>	
11 of the indicated a	isymptotics. Due to the complexity of the prob of extending the power expansions. The notion itraction" are introduced, and it is shown that $x_i = b_i \tau^{p_i} (1 + o(1)),  b_i \neq 0,  i = 1,, n,$		
		trantion In	
the next section (which t is sometimes possible number of variables of with the help of the s (2) is obtained comple- tions. Orig. art. has	then (2) is a solution of the corresponding con ch does not depend on the previous one) the aut one by means of a certain transformation either r even to integrate (1) in finite form. In the aforementioned transformation, the solution of etely. He gives examples to aid in understand as 64 formulas.	r to reduce the e last section, the contraction	
the next section (which it is sometimes possible number of variables on	ch does not depend on the previous only the late only by means of a certain transformation either r even to integrate (1) in finite form. In the aforementioned transformation, the solution of etely. He gives examples to aid in understand	r to reduce the e last section, the contraction	

BRYUNO, A.D. 

Normal form of differential equations. Dokl. AN SSSR 157 no.6: (MIRA 17:9) 1276-1279 Ag 164.

1. Predstavleno akademikom L.S. Pontryaginym.

BΔ. s/020/62/143/004/001/027 B112/B102 5 Bryuno, A. D. AUTHOR: Asymptotic behavior of the solutions of non-linear systems of differential equations 10 TITLE: Akademiya nauk SSSR. Doklady, v. 143, no. 4, 1962, 763-766 PERIODICAL: TEXT: The asymptotic behavior of the parameter-depending solution  $\mathbf{x}_1 = q_1(\tau), \ldots, \mathbf{x}_n = q_n(\tau)$  of a system  $d\mathbf{x}_1/f_1(\mathbf{x}_1, \ldots, \mathbf{x}_n) = \ldots$ 15 =  $dx_n/f_n(x_1,...,x_n)$  is investigated by studying a reduced system  $dx_{1}/\tilde{f}_{1}(x_{1},...,x_{n}) = \cdots = dx_{n}/\tilde{f}_{n}(x_{1},...,x_{n}) \text{ which is defined as follows:}$ The number  $p(q(\tau)) = \frac{1}{1} \frac{1}{1} (\ln |q(\tau)|/\ln \tau)$  is said to be the order of the  $\tau \to \infty$ 20 function  $q(\tau)$ . The functions  $f_i$  are assumed to be represented in the form  $f_i(x_1,...,x_n) = \sum_{a_{iq_1}...q_n}^{q_{i1}} \dots x_n^{q_{in}}$ . The reduced functions  $\tilde{f}_i(x_1,...,x_n)$ 25 Card 1/2 30

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<b>-</b>	Asymptotic behavior of the $B112/B102$	04/001/027	
	contain only such terms $a_{iq_1'} \cdots q_n'$ for which		
•	a $q_1'(\tau) \dots q_n''(\tau)/\varphi_1'(\tau)$ is of a minimal order.	A geometric	
	method to construct the reduced system is derived.		
	PRESENTED: November 20, 1961, by I. G. Petrovskiy, Acade	mician	
	SUBMITTED: November 15, 1961		
		ti se ti	
	Card 2/2		

BRYUNO, A.D.

Convergence of transformations of differential equations to the normal form. Dokl. AN SSSR 165 no. 5:987-989 D '65. (MIRA 19:1)

1. Submitted July 16, 1965.

BRYUSHCHENKO, L.P.; ZAKHARCHUK, V.I.

Rhythmic work is the guarantee of high technical and economic indices. Ugol! 39 no.5:16-18 My '64. (MIRA 17:8)

1. Normativno-issledovatel'skaya stantsiya tresta Petrovskugol'.

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BRYUSHININ, I. G., and Others

Increasing the productivity of swine in the Dnieper region. Sots. zhiv. 14, No 2, 1952.

USSR/Farm	Ani	mels - Swine Q	
Abs Jour	:	Ref Zhur - Biol., No 15, 1958, 69364	
Author Inst Title	:	Bryushinin, 1.0: Feeding of Corn Chops and Silaged Conrncobs to Pregnant and Nursing Sows	
Orig Pub	:	Svinovodstvo, 1957, No 9, 37-39	
Abstract	:	Corn chops (I) and silaged corcobs (II) can be included in the rations of pregnant sows up to40% of their nutriti- onal value, provided they are stopped 7-10 days before farrowing. The nursing sows may be fed I up to 40% and II up to 30%, starting with small rations, 7-10 days after farrowing.	
Card 1/1			

0-4 UCSR/Farm Animals - Swine. : Ref Zhur - Biol., No 18, 1958, 83429 Abs Jour : Borts, I.L., Brynshinin, I.G., Kovalenko, N.A., Nazarenko, Author V.A., Pochernyayeva, G.M., Spirin, K.F. Inst : : Corn Waste as Valuable Swine Fodder. Title : Svinovodstvo, No 12, 33-44 Orig Pub : When corn waste (CW) was fed to adult pregnant and nursing Abstract sows in proportions reaching 23-25 and 41.45 percent of fodder rations, negative effects in terms of the sows' fertility and milk productivity, or in terms of piglet development were not observed. It was determined that CW may be fed to suckling piclets as additional fodder, and to weaned piglets as basic fodder in feed mixtures. When raising pure-bred sows to mating age, it is possible to repalce grain feeds by CN, limiting it to 60 percent of the feeds' nutritional values. As swine which were

Card 1/2

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### BRYUSHININ, V.P. SEMENOV, N.N.; BRYUSHININ, V.P., svarshchik Roller supports for centering, clamping and welding pipes. Bats. i izobr. predl. v stroi. no.92:18-20 '54. (MLRA 8:6) 1. Master stroitel'no-montazhnogo upravleniva tresta Transvodstroy (for Semenov). (Pipe, Steel)

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BRYUSHINKIN, M.S., inzhener-podpolkovnik

Utilize communications equipment in an exemplary fashion. Vest. protivovo:d.cbor. no.4:62-65 Ap '61. (MIRA 14:7) (Communication, Military)



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BRYUSHKO, V.A.

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Production of wheat starch at the Orane Starch Factory. Sakh.prom. 34 no.10:57-58 0 160. (MIRA 13:10)

1. Oranskiy krakhmal'nyy savod. (Orane-Starch)

BRYUSHKOV, A., inzh. po tekhnike bezopasnosti, Baku.

Excursion to the Baku proving ground of the Central Fire Protection Scientific Research Institut. Pozh.delo 3 no.12: 29 D '57. (MIRA 10:12) (Baku--Fire prevention-Research)
BRYUSHKOV, A.A.

Papyrus is not paper. Bum.prom. 35 no.7:27 Je '60. (MIRA 13:8) (Papyrus(The plant)) (Paper)

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BRYUSHKOV, N.I. 

Using the hydraulic drill in Baku. Neftianik 2 no.4:4-5 Ap '57. (011 well drilling) (MIRA 10:5) (Boring machinery)

ALIKAYEV, V.A.; DUL'NEV, V.I.; VASIL'KOV, G.V.; TROKHIN, V.K.; IVASHCHENKO, S.A.; PLATONOV, V.A., veterinarno-sanitarnyy ekspert; ROMANYUKHA, A.I.; BRYUSHKOV, P.; PERGAT, F.F.; SPIRIN, F.; ARKADSKIY, V.P.; MEDVEDEV, I.

Brief news. Veterinariia 41 no.10:118-126 0 '64.

(MIRA 18:11)

1. Nachal'nik veterinarno-sanitarnogo uchastka stantsii Melitopol' Pridneprovskoy zheleznoy dorogi (for Romanyukha).

BRYUSHKOV, V.I., gornyy inzh.geolog.

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Tectonics and coal-bearing areas of the upper Sokur district in the Karaganda Basin. Sbor.nauch.trud. KazGMI no.14:77-82 '56. (MIRA 10:10)

(Karaganda Basin--Coal geology)

BRYUSHKOV, V.1.; FIG'NAN, B.A.; YEMEL'YANOVA, Ye.V., red.

[High-efficiency attachments for grinding outting tools] Vysokoproizvoditel'nye prisposoblenija dlia zatochki rezhushchego instrumenta. Leningrad, Lenizdat, 196/. 53 p. (MIRA 18:1)

BRIUSHKOV, V. I. Cand Geol-Mineral Sgi- (diss) "Geology and Conditions for formation of the coal-bearing deposits of Verkhne-Sokyrsk rayon of the Karaganda basin," Alma-Ata, 1960, 20 pp, 150 cop. (Institute of Geological Sciences, AS Kazakh SSR) (KL, 42-60, 112)

BRYUSHKOV, V.I., inzhener geolog

New data on the geology of coal bearing sediments in the eastern part of the Karaganda Basin. Sbor.nauch.trud.KazGMI no.18:137-143 (MIRA 15:2) ⁷59. (Karaganda Basin-Coal geology)

BRYUSHKOV, V.S.; BYCHKOV, V.P.; MAM(NOV, A.F. -----

> Quartz spring coiling machine. Zav. lab. 30 no.11:1417 '64 (MIRA 18:1)

1. Institut obshchey i neorganicheskiy khimii im. N.S.Kurnakova AN SSSR.

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BRYUSHKOVA, F. I.

"A Simplified Method of Testing the Quality of Chemical Treatments of "heat Seed," <u>Doklady Vecsoluznoi Akodenii Sel'skokhozinistvenovkh Naak imeni</u> <u>V. I. Lenina</u>, vol. 3, no. 3-4, 1938, pp. 29-36. 20 Akl

So: SIRA-S1-90-53, 15 Dec 1953

BRYUSHKOVA, F.I.; NOSKOVA, A.V.; CHUBOVA, A.V.

Effectiveness of Bordeaux mixture for the control of Phytophthora in potatoes. Trudy VNIISP no.4:147-152 '54. (MIRA 8:12) (Potatoes--Diseases and pests) (Phytophthora) (Bordeaux mixture)

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PARAMONOV, Aleksandr Aleksandrovich; <u>BRYUSHKOVA, Fira</u> Ivanovna; SKRYABIN, K.I., akademik, otvetstvennyy redaktor; <u>PKREDEL'SKAYA</u>, N.M., redaktor izdatel'stva; ASTAF'YEVA, tekhnicheskiy redaktor

> [The nematode Ditylenchus destructor in potatoes and methods of controlling it] Steblevaia nematoda kartofelia i mery bor'by s neiu. [Moskva] Izd-vo Akademii nauk SSSR, 1956. 110 p. (MERA 9:10) (Potatoes--Diseases and pests) (Nematoda)

APPROVED FOR RELEASE: 06/09/2000

BRYUSHKOVA, F.I.; KRYLOV, P.S.

Experiments in eliminating the potato rot nematode. Trudy Gel'm. lab. 16:24-26 '65. (MIRA 19:2)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307130005-2

BRYUSHKOVA, T.I.

AUTHORS:

TITLE:

Pechkovskaya, K.A., Shedid-Khuzemi, N.A., Orlovskiy P.N., Livshits, F.B., Novikova I.S. and Brynshkova, I.I. Chemical and Physico-Chemical Methods of Evaluating the Properties of Carbon Black (Khimicheskiye i fizikokhimicheskiye metody otsenki kachestva sazh) Part II: The Fundamental 'Structure' of Carbon Black (Soobshcheniye II: pervichnaya 'struktura' sazhi)

PERIODICAL: Kauchuk i Rezina, 1958, Nr 6, pp 8 - 13 (USSR)

ABSTRACT: The colorimetric method for evaluating the dispersity of carbon black was discussed in Part I (Ref 1). This article describes investigations on the 'structure' of carbon black. After defining the terminology of 'carbon black particles', crystallite, and the primary and secondary aggregate, methods for the quantitative evaluation of the fundamental 'structure' of carbon black are discussed. None of these methods was entirely satisfactory. Comparative evaluation of the fundamental 'structure' can be achieved by defining the oil number and the 'structure' index. The form factor can serve as an added characteristic. The partial breakdown of the fundamental 'structure'

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Card 1/3

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Chemical and Physico-Chemical Methods of Evaluating the Properties

of jet carbon black leads to a decrease in the oil number without causing appreciable changes in the unit surface. The fundamental 'structure' inhibits granulation of the carbon black. The secondary 'structure' makes granulation easier. The degree of the development of the fundamental 'structure' indicates a change in the technological propercarbon black with large primary particles are usually more viscous, can be sprayed more quickly and give a thinner deposit than mixtures containing carbon black of normal structure. Jet carbon black (with partly disintegrated fundamental 'structure') imparts to vulcanisates, based on SKB, a lowered modulus, a lower degree of electroconductivity and increased bonding strength to cords (Fig 3). The degree of dispersity and data on the 'structure' of various Soviet carbon blacks are listed in

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sov/138 -58-6-3/25 Chemical and Physico-Chemical Methods of Evaluating the Properties Table 2, and Table 4 gives the physico-chemical and Table 2, and Table 4 gives the physico-chemical and technological properties of American furnace carbon black. There are 5 tables, 3 figures and 13 references (7 English, 2 German and 4 Soviet) of Carbon Black ASSOCIATION: Nauchnoissledovatel'skiy institut shinnoy promyshlennosti (Research Institute for the Tire Industry) 1. Carbon black--Physical properties 2. Carbon black--Chemical properties 3. Colorimetric analysis--Applications

Card 3/3

"APPROVED FOR RELEASE: 06/09/2000

s/032/61/027/001/005/037 B017/B054

Gel'man, N. E., Van Ven'- yun', and Bryushkova, T. I. AUTHORS: Use of Conductometry for a Direct Microdetermination of TITLE:

Oxygen in Organic Compounds

Zavodskaya laboratoriya, 1961, Vol. 27, No. 1, pp. 24-28 PERIODICAL:

TEXT: A direct conductometric microdetermination of oxygen was developed according to the method by M. O. Korshun and Ye. A. Bondarevskaya (Refs. 10, 11). The organic compound is thermally decomposed in a nitrogen- or argon atmosphere; the resulting gaseous reaction products are allowed to pass over platinized carbon black at 900°C, the oxygen is quantitatively transformed to CO. The resulting carbon monoxide is oxidized by copper monoxide to  $CO_2$  at 300°C, and is absorbed in an

alkaline solution. The resulting carbon dioxide is determined by the change in electrical conductivity of the absorption solution. For a quantitative oxidation, a 3.5 cm long contact layer is required, and the gas flow velocity must not exceed 10-12 ml/min. Numerous organic compounds of

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Card 2/2

GEL'MAN, N.E.; BRYUSHKOVA, I.I.

Elemental analysis of organometallic compounds igniting in air. Simultaneous microdetermination of carbon, hydrogen, and aluminum or some other element as an oxide. Zhur. anal. (MIRA 17:9) khim. 19 no.3:369-374 164.

1. Institut elementoorganicheskikh soyedineniy AN SSSR, Moskva.

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BRYUSHKOVA, K. A.

"The role of ascrobic acid in the life of plants and yeast." The Far Eastern Filiale of the Central Institute of Haematology and Blood Transfusion (dir: Prof. I. A. Golyanitskii.) (p. 1083) by Golyanitskii, I. A. and <u>Bryushkova, K. A.</u>

SO: <u>Biological Journal</u> (Biologicheskii Zhurnal) Vol. V, 1936, No. 6

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307130005-2 0 . . . . ٠ in the transformed sectors . . 44 8 . * 33 # 1 13 14 14 14 H H 3 2 mil 1 h 1 ( ) ( ) 1 10 11 12 **0** 3 2 -------. . 4 . ... . . . . . . . . . . The synthesizing action of proteases in living tissues of higher plants. A. Kursanov and K. Bryushkova. Bio-blants were infiltrated, for 15-30 min., by an amino acid-myst. (albumin or legumin hydrolyzate). Extn. of the samples with 0.3% NaOH for 1 hr. in a shaking machine-vielded all the products of synthesis in a sol. form. Anala-sis for the total N. N of the CCLCOOH filtrate and the N of the filtrate after pptn. with PhOAeby yielded the pro-tum N and peptone N. The synthetic processes are most active during the first 15-30 min. The aut. of N, in mg. 5 synthesized by 1 g. of dry substance in 1 hr., is for pea (11-day seedling), 52.4; pea 7-day seedling), 24.4; harley "12-day seedling), 20.6; wheat (11-day seedling), 22.0; theory (leaves), INS.; Cyclamer persum (leaves), 13.6. The rate of synthesis is the same in an O or N ation H. Cohen . ... 5**0 0** 3 ... ..... z 0 0 ð **z** ... ---. . .... ... . . ... 2 : • • • Chimistry, Academy of Sciences, USSR, Mas ----1;**0** 🖲 ۱**5** ..... -----**Şe •** الأكعلت وورزوه 8 ۲ 100⁻¹ 400 2 43 6 2 . 7 21 1 # H ŝ 'n ÷. A 2 1 100080 •• 10 15 • • u 47 • . . . • 4 Ô. • . . . . ē . • 4 . . . . . • ē . . . The state of the second s

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307130005-2 的目标 2 H B M B B B 11 010 u L * * 4: 4) 14 ċ. • CALIFI ••• .1 ID ICA • • . Enzyme activity in ripening wheat. A. Kurvanov and K. Bryushkova. Biohäimiya 5, 681-6(1940).—Invertase and proteinase activity are studied in relation to ripening. Hydrolytic activity is followed by synthesis when sold invertees are heing laid down, all enzyme action cosing when ripeness is complete. These phenomena depend either on dehydration or on transition of the enzymes into an inactive state. The intermediate synthetic phase is probably associ, with a form of adsorption of the en-zymes. B. C. P. A. -£ 19.6 • ..... -**1**0 **4** . . Biochemistry of the Academy of Sciences ..... Inst .... -**\$• •** 4111119 D 4 a 140000 0 21 12 22 44 Ø 10 15 9 17 N 27 u • • • • : . : ē ŏ • . . . ē ĕ . ē ۲ ò . . . • International Sectors and the second an a shirt has had a shirt of the later of t 11 . . .

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11444545-11-1-

GUNAR, I.I.; KRASTINA, Ye.Ye.; BRYUSHKOVA, K.A.: BELIKOVA, Ye.M.

Diurpal periodicity in the synthetic activity of roots. [with summary in English]. Izv. TSKhá no.5:18-34 '60. (MIRA (MIRA 13:11) (Roots (Botany))

BRYUSHKOVA, O., inzh.; DUBROVKIN, S., inzh.

Ceramic radiators. Na stroi. Mosk. 1 no.9:24 S '58. (MIRA 11:12) (Radiators) (Ceramics)

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•	BRYUSHKOVA, T.A.	
•	$\frac{L 16067-65}{P_T-4/P_{e5}/P_{u-4}} \frac{EVG(j)/EVT(m)/EPF(c)/EPF(n)-2/EVP(j)/T/EVA(h)/EVA(1)}{GG/RM} P_{c-4}/$	
	ACCESSION NR: AP4046086 S/0076/64/038/009/2316/2319	
	AUTHOR: <u>Kiseleva, Ye. D.;</u> Ragimov, A. V.; Chmutov, K. V.; Berlin, A. A.; Kliyentovskaya, M. M.; Bryushkova, T. A.	
•	TITLE: Effect of an ionizing radiation current of accelerated electrons on polysulfophenylenequinone cationities	
	SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 9, 1964, 2316-2319	
	TOPIC TAGS: polysulfophenylenequinone cationite, ionite P3, ionite P4, ionite PS-3, radiation stability, accelerated electron radiation, radiolysis, dry atmos, phere radiation, EPR spectrum, double bond oxidation	
	ABSTRACT: The stability of polysulfophenylenequinone cationites subjected to accelerated electron current radiation in water and in a dry atmosphere was in- vestigated. The <u>conjugated bond</u> containing ionites were obtained by reaction, in a weakly alkaline medium, of p-benzoquinone (I) with salts of bisdiazotised benzidinedisulfonic acid-2, 2 (II) (I:II=1:3 for ionite P3 and 1:4 for ionite P4) or	-
	Card 1/3	

I; 16067-65 ACCESSION NR: AP4046086

stilbenedisulfonic acid-2, 2(III) (I:III=1:3 for ionite PS-3). Radiation conditions: electron energy=4.0-4.2 ME, current strength = 5-10 milliamps, dosage = 1-3 x 10¹⁹ ev/gm.sec. On irradiation in water the capacity and weight of the cationites was reduced and swelling increased with increasing dosage. Destruction was believed to have been caused by oxidation of the quinone-hydroquinone group in P3 and P4 and oxidation of the double bond in PS-3 by the products of water radiolysis. On irradiation in the absence of water the radiation stability was considerably increased. The increased ion exchange capacity of the irradiated PS-3 cationite was explained due to the formation of carboxyl groups at the site of the double bond rupture. The stability to ionizing radiation by accelerated electrons was increased by an increasing amount of hydroquinone in the cationite; stability of the cationites decreased in the following order: P3>P4>PS-3. EPR signals of the irradiated samples showed an increased number of unpaired electrons attributed to formation of new radicals due to the C-S bond rupture. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Akademiya nauk SSSR Institut fizicheskoy khimii (Academy of

Card 2/3

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KISELEVA, Ye.D.; RAGIMOV, A.V.; CHMUTOV, K.V.; BERLIN, A.A.; KLIYENTOVSKAYA, M.M.; BRYUSHKOVA, T.A.

> Effect of the ionizing radiation of accelerated electron current on polysulfophenylenequinone cation exchangers. Zhur. fiz. khim. 38 nc.9:2316-2319 S 164. (MIRA 17:12) (MIRA 17:12)

1. Institut fizicheskoy khimii AN SSSR.

BRYUSKE, Ya. E. Cand Chem Sci -- "Basic-acidity properties of aromatic diazo compounds and certain mines problems of their structure." Len, 1960 (Len Order of Lenin State Univ im A. A. Zhdanov) (KL, 1-61, 181)

-46-

BRYUSKE, Ya.E.; PORAY-KOSHITS, B.A.

Certain characteristics of amphoteric compounds. Report No.1: Compounds with a single functional group. Trudy LTI no.60:123-137 *60. (MIRA: 14:6)

1. Kafedra tekhnologii organicheskikh krasiteley Leningradskogo tekhnologicheskogo instituta imeni Lensoveta. (Diazo compounds) (Hydrogen-ion concentration)

> . 1

BRYUSKE, Ya.E.; PORAY-KOSHITS, B.A.

Certain characteristics of amphoteric compounds. Report No. 2: Acid-base properties of aromatic diazo compounds. Trudy LTI no.60: 138-148 '60. (MIRA 14:6)

1. Kafedra tekhnologii organicheskikh krasiteley Leningradskogo tekhnologicheskogo instituta imeni Lensoveta. (Diazo compounds)

PORAY-KOSHITS, B.A.; BRYUSKE, Ya. E.

Structure and conversions of aromatic diazo compounds. Report No. 19: Acid-base equilibrium of certain diazo compounds. Trudy (MIRA 14:6) LTI no.60:149-158 '60.

1. Kafedra tekhnologii organicheskikh krasiteley Leningradskogo tekhnologicheskogo instituta imeni Lensoveta. (Diazo compounds)
BRYUSHE, Ya.E.; PORAY-KOSHITS, B.A.

Effect of substituents in the aromatic ring on the acid-basic properties of diazo hydrides. Zhur.frikl.khim. 35 no.1:182-185 (MIRA 15:1) Ja 162.

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Diazo compounds) (Substitution (Chemistry))

BRYUSOV, A. Ya.

"Chto nado ponimat' pod etnicheskimi obshchnostyami v arkheologii i ikh enacheniye dlyaproblemy proiskhozhdeniya drevnikh i sovremennykh narodov."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

Method for plotting maps of gravity anomaly verical gradients. Nauch. dokl.vys.shkoly; geol.-geog.nauki no.1:238-242 '58. (MIRA 12:2) dokl.vys.shkoly; geol.-geog.nauki no.1:238-242 '58.

1. Moskovskiy universitet, geologicheskiy fakul'tet, kafedra geo-fizicheskikh metodov issledovaniya zemnoy kory. (Gravity--Maps)

Concerning a method for determining the site of the perturbing mass based on gravimetric data. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.2:191-201 '59. (MIRA 12:8)

1. Moskovskiy universitet, geologicheskiy fakul'tet, kafedra geofizicheskikh metodov issledovaniya kory. (Gravity)

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CIA-RDP86-00513R000307130005-2



Method for determining the site of the perturbing mass based on gravimetric data. Part 2. Izv. vys. ucheb. zav.; geol. i razv. (MIRA 13:10) 3 no.8:92-98 Ag 160.

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Prospecting-Geophysical methods)

Some results of geophysical studies in the western Caucasus. Prikl. geofiz. no.36:236-252 '63. (MIRA 16:9) (Caucasus, Northern--Prospecting--Geophysical methods)

Amplitude method for estimating the depth of perturbing objects from the gravitational and magnetic anomalies at various altitudes. Razved. geofiz. no.1:40-46 '64. (MIRA 18:7)

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NCC NR:	: AR600080	8	SOURCE CODE	: UR/0169/65/000/009	/G007/G007
SOURCE:	Ref. zh.	Geofizika, Abs.	9G43	an a	лO
UTHOR:	Bryusov,	B. A.			Š Š
1	12,44,55	12,44,55		hod of statistic corr •, Mosk. un-t, 1964,	
		imetric analysis,	4. 4		
RANSLA ffecti f the eismic onsists nd emp: evel,	TION: The ve only whe gravitating data is pr s of using irical form Δq is the a	use of frequency en there is suffi g objects. Other roposed for const the method of le mula of the type anomaly in the for	selection metho cient difference wise, the method ructing the reli ast squares for $H=a+b\cdot\Delta g$ (H is t	ds for isolating grav between the horizont of correlating gravit ef of the contact sur selecting the appropri- he depth to the seism . The correlation show re isolated with response	al dimensions metric and face. This iate linear ic reference

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CIA-RDP86-00513R000307130005-2

L 13847-66 ACC NR: AR6000808 geologic considerations, the forms of the reference level and the morphological features of the gravitational field. The eastern Caucusus is used as a test region for the proposed method. A relief diagram for the paleozoic deposit in this region is plotted. The physical meaning of the statistic correlation method is discussed and means for carrying out this method are indicated. SUB/CODE: 08 Card 2/

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CIA-RDP86-00513R000307130005-2"

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<u>L 29588-66</u> $EWT(1)$ $GW/GD$	_
ACC NR: AT6014339	_
AUTHOR: Bryusov, B. A.; Geysherik, G. M. > >	
Long	
TITLE: LOCal anomalion in the	
TITLE: Local anomalies in the force of gravity in the Northeast Caucasus foothills SOURCE: MOSCOW, Universitate V. C.	
SOURCE: <u>Moscow. Universitet</u> . Kafedra geofizicheskikh metodov issledovaniya zemnoy kory. Geofizicheskiye issledovaniya (Geophysical research) po la k	
kory. Geofizicheskiye issledovaniya (Geophysical research), no. 1. Moscow, Izd-vo	
TOPIC TAGS: earth gravity, gravitation field, geology	•
ABSTRACT: The growitational states	
ABSTRACT: The gravitational field in the Northeast Caucasus region is studied. 13 pro- dients in the former	
The upposits percentile c	
asymptotic formulas for a vertical scarp:	
$h < -\Delta g$	
$h < \frac{\Delta g}{\pi \left[1 + \frac{ G_{max} }{4k\sigma}\right]}, \qquad h < \frac{ \Delta g_{max} }{\pi  G_{max} }, \qquad h < \frac{\Delta x}{\pi} = 0.318 \Delta x.$	_
$\begin{bmatrix} 4k\sigma \end{bmatrix} = \pi [G_{max}] = \pi$	
Card 1/2	

and the second second

L 29588-66

ACC NR: AT6014339

where

 $|\Delta g_{max}| = |\Delta g(+\infty) - \Delta g(-\infty)|,$ 

The horizontal gradient G at each point was determined from the formula

h is the depth of the upper edge of the deposit,  $G_{\max}$  is the maximum horizontal gradient in the force of gravity,  $\Delta x$  is the projection on the x-axis of the tangent section cut off by the tangents to the asymptotic sections of the curve for the force of gravity.

$$G(x)=\frac{\Delta g(x+a)-\Delta g(x-a)}{2a},$$

where  $\alpha$  was taken as equal to 2.5 km. It is found that in most cases the local anomalies in the force of gravity are due to disturbing factors associated with the surface of the prepaleozoic stratum or with anomalous masses inside the folded layer. The geographic pecularities of the anomalies are discussed. Orig. art. has: 3 figures, 1 table, 4 formulas.

SUB CODE: 08/ SUBM DATE: 05Nov64/ ORIG REF: 006/

Card 2/2 (1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307130005-2"

OTH REF: 001

BRYUSOV, V.YA.

"Le probleme indoeuropean et la culture des haches de combat."

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Report submitted to the 6th Intl. Cong. of the Intl. Union of Prehistoric and Prohistoric Sciences, Rome, Italy 29 Aug-3 Sep 1962

<u>- 191</u>	L 25505-66 EPF(n)-2/EWT(1)/EWT(m)/ETC(f)/EWG(m) LJP(c) AT/JD	
	AUTHOR: Shvets, O.M.; Tarasenko, V.P.	
	AUTHOR: <u>Shvets</u> , O.M.; <u>Tarasenko</u> , V.F.; <u>Ovchinnikov</u> , <u>S.S.</u> ; <u>Brzhechko</u> , <u>L.V.</u> ; 93	
	ORG: none	
	1월 - San 4 North Leta Nathan Shi Shi New 2017년 1월 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1	
5	TITLE: Investigation of high frequency heating of a dense plasma in a metallic	
· .	SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 3, 1966, 443-446	
	TOPIC TACE	
4 11 -	TOPIC TAGS: plasma heating, ion temperature, cyclotron resonance, magnetic mirror machine, high frequency, hydrogen, helium, argon, helium plasma hydrogen hydrogen	
• .	machine, high frequency, hydrogen, helium, argon, helium plasma, hydrogen plasma plasma charged particle, plasma density	
	present authors (films appears to be a secuel to an earlier unser the	
	present authors (ZhTF, 35, 1285, 1965). <u>Hydrogen helium</u> and hydrogen argon plasmis at pressures in the $(1-3) \times 10^{-3}$ mm Hg range with charged particle densities of blasmis order of $10^{14}$ cm ⁻³ were produced in the "Vikhr" magnetic plasmit produced in the "Vikhr" magnetic plasmit and p	
	mirror and propagated waves which were produced in the visibility and we are	
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	was weaker and corresponded to the center of the discharge chamber where this magnetic field - operated at a frequency of 1.82 MHz. The following advantages are also kw oscillator	
	operated at a frequency of 1.82 HHz. The following advantages are claimed for the momentum initially imparted to the ion is perpendicular to the external to the enternal to t	
	momentum initially imparted to the ion is perpendicular to the external magnetic field 2	
	<u>Cord 1/3</u> UDC: 533.9	



L 40922-66 EWT(1) LJP(a) GD/AT	
ACC NR: AT6020564	SOURCE CODE: UR/0000/65/000/000/0026/0038
AUTHOR: Shvets, O. M.; Ovchinnikov, Pavlichenko, O. S.; Tolok, V. T.	S. S.; Tarasenko, V. F.; Brzhechko, L. V.: 57
ORG: none	$\mathcal{D}^{++}$
TITLE: Study of the conditions for g the high frequency heating of plasma	generating a dense plasma in a metal chamber and $\checkmark$
SOURCE: AN UkrSSR. Vysokochastotnyye plasma). Kiev, Naukovo dumka, 1965, 2	e svoystva plazmy (High frequency properties of 26-38
	ensity, plasma generator, argon,plasma
plasma were investigated. A diagram 100 kw can be generated at frequencies be produced in several configurations diagnostics consist of: 1) voltage m mines the coupling between the general ments of plasma ions and impurity lin	in a metal container and the properties of such a of the experimental apparatus is shown. Up to es of $1.82 \cdot 10^6$ Hg. The magnetic field which can s, has a maximum value of $2 \cdot 10^5$ A/m. The plasma monitoring across the plasma column, which deter- ator and the plasma load; 2) spectral measure- nes, giving the density and temperature of the
$2 \cdot 10^{14}$ cm ⁻³ and a temperature of $4 \cdot 10^{14}$	nine the field distributions. A plasma density of 0 ⁵⁰ K were attained. Another set of experiments
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ACC NR: 1	AT6020564	-					/
used, an strongly of hotter pla be effecti	ion tempe on the ap asma. It ively hea	bserve the lau The results o rature of 2.10 plied voltage, was also show ted; the energ t. has: 5 fig	f these expe ⁶⁰ K was reac it is concl n that a mix y transfer m	riments show the the since the the since the the second se	that when ne ion tem ner voltag ifferent i	argon plas perature o e would re	sma was depends esult in
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L 05917-67 EWT(1) IJP(c) AT ACC NR: AR6032293 SOURCE CODE: UR/0275/66/000/007/A023/A023 46	
AUTHOR: Shvets, O. M.; Ovchinnikov, S. S.; Tarasenko, V. F.; Brzhechko, B. L. V.; Pavlichenko, O. S.; Tolok, V. T.	
TITLE: Investigation of conditions for the production of a dense plasma in a metal chamber and for its h-f heating	1
SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 7A167	
REF SOURCE: none	and the second second
TOPIC TAGS: dense plasma, particle density, charged particle density, cyclotron ion wave	
ABSTRACT: Conditions for <u>producing a dense plasma on a</u> "VIKHR!" system by means of high-powered frequency oscillators were investigated. Charged particle density was determined on the basis of the Stark widening of the line $H_B$ and by SHF methods. Electron temperature was determined by the intensity ratios of the He lines. It was found that the density of the plasma produced in a metal chamber reached $\sim 10^{13}$ cm ⁻³ at an electron temperature of 40 ev. Further action of	
UDC: 537. 575	

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ACC NR: AR6032293		U
cyclotron ion waves on the plas temperature of the basic gas (H gases which were present in th energy transmission by protons [Translation of abstract]	$f_3$ and a noticeable heating $200 \text{ ev}$ .	The mechanism of
SUB CODE: 09, 20/		
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Card 2/2		

<u>L 04161-67</u> EWP(e)/EWT(m) WH	
ACC NR: AP6023674 SOURCE CODE: UR/0143/66/000/004/0025/00	
AUTHOR: Brzhezanskiy, V. I. (Engineer); Vakser, N. M. (Engineer); J. Tolvinskaya, A. V. (Engineer)	2
ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnicheskiy institut)	
TITLE: Comparison of the properties of sheet mica made from muscovite, phlogopite, and vermiculite	
SOURCE: IVUZ. Energetika, no. 4, 1966, 25-29	
TOPIC TAGS: mica, dielectric property	
ABSTRACT: All mica test samples were prepared with the same binder, that is, with Type K-47 organosilicon lacquer, used in the amount of 4% with respect to the dry sample. All the samples were baked under the same conditions: 300°C, pressure 40 kg/cm ² , for 5 hours. Measurements of the tangent of the dielectric losses and dielectric permeability wer made at a frequency of 1 kilocycle. The results of the tests are shown in a series of curves. The best electrical properties and the least dependence of these properties on temperature were found for sheet mica made from muscovite; on heating this sheet mica from 22 to 600°C, the	8
Card 1/2 UDC: 621.315.613.1	

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tangent of the dielectric losses rose from 0.017 to 0.11; the specific volumetric resistance decreased from  $5.8 \times 10^{13}$  to  $7.8 \times 10^{11}$  ohm-cm; the dielectric permeability rose from 3.4 to 3.7; the electric strength decreased from 27 bilovalts (mm to 22 bilovalts (mm to 23 bilo decreased from 27 kilovolts/mm to 22 kilovolts/mm. In sheet mica made from phlogopite, values of the properties of the same order were observed at a temperature of 350°C, as compared with 600°C for the sheet mica made of muscovite. Thus, sheet mica made of muscovite with K-47 lacquer can be used up to 500°C, if at this temperature there is required an electrical strength of the order of 20 kilovolts/mm. 500°C, water of crystallization begins to separate out, which leads to a change in the properties of this sheet mica at higher temperatures. Sheet mica made of phlogopite can be used up to 350°C; above this temperature, there is a sharp rise in the tangent of the dielectric losses. Sheet mica made of vermiculite can be used only up to 250°C, for the same reason. In general, the muscovite sheet mica is considered the best for most applications. Orig. art. bas: 6 figures. SUB CODE: CO / SUBM DATE: 04Dec64/ ORIG REF: 001 Card 2/2 

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CIA-RDP86-00513R000307130005-2"

"APPROVED FOR RELEASE: 06/09/2000

ACC NR: AT6022764 (A) SOURCE CODE: UR/2563/65/000/258/0138/0141

AUTHOR: Brzhezanskiy, V. I.; Vakser, N. M.; Tolvinskaya, A. V.

ORG: none

TITLE: Mica plastics

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 258, 1965. Vysokovol'tnaya izolyatsiya liniy i apparatov (High voltage insulation of lines and apparatus), 138-141

TOPIC TAGS: mica product, mica plastic , mica-

ABSTRACT: The mica plastic consists of small phlogopite flakes bonded by aluminum phosphate (Soviet trademark AF-2,5) or silicone. Developed by the Department of Electric Insulation, Cables, and Capacitors, LPI, the new material is intended as insulation operating at 350-400C in electrical equipment. Within 25-400C, the mica plastic has tgo from about 0.04 to about 0.25 and  $\varepsilon$  about 6 or 7 measured at 1000 cps. Although good electrical characteristics were ensured

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with the binder content as low as 1%, in practice over 3% binder was used to add high mechanical strength to the material. Curves of  $tg\delta$ ,  $\varepsilon$ , and resistivity vs. temperature for five different compositions of the mica plastic are shown. Data on a mica plastic with an organic binder (working temperature up to 150C) is also given. Orig. art. has: 3 figures and 1 table.

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SUB CODE: 11, 09 / SUBM DATE: none / ORIG REF: 002

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!	ACC NR: AP6035535 SOURCE CODE: UR/0292/66/000/010/0047/0050	
	AUTHOR: Abramishvili, D. A. (Engineer); Brzhezanskiy, V. O. (Engineer); Parkhomenko, V. I. (Engineer)	
	ORG: none	
:	TITLE: Electrical characteristics of the micaplastic with heat-resistant binders	
• • •	SOURCE: Elektrotekhnika, no. 10, 1966, 47-50 heat resistant material, TOPIC TAGS: mica product / slyudoplast mica product	
	ABSTRACT: The "slyudoplast" or micaplastic (MP) sheet insulating material consists of small phlogopite flakes and one of these heat-resistant binders: (A) aluminum phosphate, (B) same, plus an artificial-corundum filler, (C) silicone, and (D) A-plus-C combination. Resistivity, breakdown voltage, water absorption, moisture absorption, and lifetime of these binders are	
	Cord 1/2UDC: 621.315.613.1.001.5	

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# ACC NR: AP6035535

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tabulated. Electrical characteristics (  $\mathcal{G}_{\star}$ ,  $\mathcal{G}_{\star}$ , breakdown voltage), weight loss and swelling of the above MP's heated and 1000-hr aged at 500C or subjected to high humidity or high vacuum were determined. Findings: (1) MP with any of the above binders can be used for continuous (1000 hrs) work at 500C in air or in vacuum; or for short-time work at 750C; (2) Inorganic or near-inorganic binder is recommended for MP intended for working in vacuum at 500C; (3) Products molded (at 280C) from A-binder MP and intended for high-temperature operation should receive an additional thermal treatment at 500C; (4) The above MP's can be used as elastic molded insulation of slots, magnets, windings, etc., operating at 500C. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 11, 09 / SUBM DATE: none / ORIG REF: 003

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ACC NR	AT7000580	SOURCE CODE: UR/2589/65/000/078/0043/0048	
	Brzhezinskiy,	, M. L.; Zorin, D. I.; Sverdlichenko, V. D.	- 110
ORG: VN			
TITLE:	A photometric	photoelectric microscope	
Komiteta	. no. 78(138),	t standartov, mer i izmeritel'nykh priborov. Trudy institutov , 1965. Issledovaniya v oblasti lineynykh izmereniy (Research in easurements), 43-48	
TOPIC TA	GS: pho <u>reeled</u> anning, photoe	atric microscope, photoelectric method, photoelectric tracking, electric scanning, automatic scale, reading equipment, metrology	
ABSTRACT of this 3 throug relay le ing spli the opti stantane	: A photoelec instrument is h the beam spl ns system 4 in t) driven by t cal scanning s cous values of	ctric, line reading microscope is described. The block diagram shown in Figure 1. Scale 10 is illuminated by the light source litter 2 and the objective 1. The scale plane is imaged by the nto the plane of the optical chopper 5 (in the form of a vibrat- two electromagnets. A photodetector 6 receives the light from system and generates electrical signals proportional to the in- the light flux. The photodetector output is amplified in the ulated in a phase sensitive ring demodulator $\vartheta$ . The resulting of to the displacement of the microscope main axis from the center	dc
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