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	ACCESSION NR: AT4005957 8/2755/63/00	0/004/0018/0033
	AUTHOR: Yemel'yanov, V. S.; Borkov, N. V.	
	TITLE: Effect of hydrogen and nitrogen on corrosion resi in water and steam	stance of sirconium
	SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Metal vedeniye chisty*kh metallov, no. 4, 1963, 18-33	lurgiya i metallo-
	TOPIC TAGS: zirconium corrosion, hydrogen effect	•
	ABSTRACT: The effect of H_2 and N_2 on corrosion resistanc Zr sheets (1 mm thick) was investigated. Absorption of H laboratory device, using specific amounts of H_2 at variou der a high vacuum. The amount of H_2 required for absorpt by means of the Mendeleyev-Klapeyron equation, and the am was determined by a gravimetric method. At a temperature	2 was studied in a s temperatures un- ion was calculated ount of H ₂ absorbed
Card	distribution of H ₂ in a cross section of the specimen was minutes. Corrosion tests of specimens exposed to H ₂ were series in a stainless steel autoclave at 350C and 170 atm series of experiments, specimens containing 0.001, 0.01, 1/3	reached in 30-40 carried out in two . In the first

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ACCESSION NR: AT4005957 0.015% H₂ were exposed to distilled water for up to 950 hours; the hydrogen absorption was tested after 100, 200, 440, 670 and 950 hours. In the second series of experiments, specimens containing 0.005, 0.01, 0.02 and 0.025% were exposed to distilled water in sealed ampules of stainless steel and tested at 2500°C. The kinetics of the corrosion process were determined from the increasing weight of the specimens. It was found that an increase in the H₂ content in a Zr specimen decreased its corrosion resistance in steam. The effect of N₂ on Zr-corrosion resistance was tested on 30 x 10 x 1 mspecimens. Absorption of N2 was studied by the N.V. Borkov method, in the range of 0.006-0.055% of absorbed N2. Corrosion tests were carried out in stainless steel autoclaves at 300 C, 88 atm. pressure; 350 C, 170 atm. pressure; and 400 G, 280 atm. pressure. The kinetics of the corrosion process were studied by weighing the specimens after stated time intervals. After the specimens were removed from the autoclave, a loose layer of oxide was found on the surface. It was concluded that the corrosion resistance of Zr in water and steam is more markedly decreased by M2 than by H2. Orig. art. has: 1 formula, 9 figures and 9 tables. ASSOCIATION: Inshenerno-fizicheskiy institut, Moscow (Engineering Physics Institute)

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ACCESSION NR: AT400595		8/2755/63/000/004/	/0058/0063	1
AUTHOR: Yemel'yanov, V.	. S.; Yevstyukhin, A.	I.; Leont'yev, G.	A.; Semenikhin, A.	
• TITLE: Growing of moly	bdenum single crystal	and their propert	ies .	
SOURCE: Msocow. Inzher deniye chisty*kh metallo	nerno-fizicheskiy inst DV, no. 4, 1963, 58-63	itut. Metallurgiy	a i metclloven-	
TOPIC TAGS: molybdenum molybdenum single crysta molybdenum elasticity mo single crystal growing,	dulug molubdogu t	single crystal mi	al property, crohardness, lybdenum property,	
ABSTRACT: For the major single crystals are well other hand, growing of s W, Cb, and Ta, presents authors tried to grow mo	ingle crystals of hig some experimental diff lybdenum single crysta	h-melting point met ficulties. In this	ature. On the cals, such as Mo; connection, the s phase of an	

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12 ACCESSION NR: AT4005959 4-5 hours.. Such monocrystalline filaments could be obtained in 10 to 90 mm lengths. The method and test equipment used are described in the paper of V. S. Yemel'yanov et al. (Yemel'yanov, V. S., Leont'yev, G. A., Yevstyukhin, A. I.: "Metallurgiya i metallovedeniye chisty*kh metallov," vy* p. III. M., Gosatomizdat, 1961, str. 137). The subsequent growing of crystals was performed from the gaseous state of MoCl₅ at temperatures of 1500-1600C in the beginning of the process, and then at 1280-1300C. A higher rate of deposition occurred at the higher temperatures. Molybdenum single crystals were grown up to 3 mm thick and 90 mm long. The single crystals obtained showed high ductility at room temperature, could be easily bent to a large angle and cold-rolled. In contrast to this, polycrystalline deposits obtained from the same gaseous phase were brittle in bending. In addition, tests were made to determine hardness, modulus of elasticity, and internal friction values of molybdenum single crystals. The hardness of molybdenum single crystals was considerably lower than that of the bound of molybdenum single crystals was considerably lower than that of the source of the second state was 200 gr load). of molybdenum single crystals was considerably lower than that of the commercial while that of the common commercial metal in an annealed state was 230-260 kg/mm The modulus of elasticity was determined from resonance frequencies of flexural vibrations of freely suspended cylindrical specimens. Single crystals showed somewhat higher E values than samples of commercial metal. The internal friction was determined from the damping of flexural vibrations. Quenched single crystals Card

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friction. When a consubject to fiving be	f internal friction. After a slight plastic bending defor- ble increase of internal friction was observed. In plastic of dislocations increased, causing an increase of internal systal contained an abundant number of points of disorder y quenching, the latter might migrate to the dislocations and thus the level of internal friction. Orig. art. has: 5
	erno-fizicheskiy institut, Moscow (Engineering-Physics
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SUBMITTED: 00	DATE ACO. 177
SUBMITTED: 00 SUB CODE: ML	DATE ACQ: 17Jan64 ENCL: 00
SUBMITTED: 00	DATE ACQ: 17Jan64 ENCL: 00



S/025/63/000/001/001/003 D205/D307 AUTHOR : Yemel'yanov, V.S., Corresponding Member of the AS USSR TITLE: 2. From the history of atomic research in our country Nauka i zhizn', no. 1, 1963, 34-35 PERIODICAL: TEXT: A brief summary of the early atomic research in Russia, beginning with the work of A.P. Sokolov, V.I. Bernadskiy, I.A. Antipov, and P.P. Orlov and ending with the mention of the first Soviet reactor. A description is given of the formation of Radiyevy institut (Radium Institute), Institut geokhimii i analiticheskoy khimii Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry of the Academy of Sciences USSR), and Cosuderstvennyy insti-Chemistry of the Academy of Sciences USSR) and Gosudarstvennyy insti-tut redkikh metallov (State Institute of Rare Metals). The work of these organizations and of accompanying developments in the chemical industry are outlined. Card 1/1

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On the forthcoming International Conference on Peaceful Uses of Atomic Mergy. Vest. AN SSSR 34 no.6:79-82 Je '64 (MIRA 17:8) 1. Chlan-korrespondent AN SSSR.	YKMEL'Y	ANO	, V.S.						
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	YEmel'yanov, Vasiliy Semenovich; YEvstyukhin, Aleksandr Ivanovich
	Metallurgy of nuclear fuels; properties and principles of the technology of uranium, thorium and plutonium' (Metallurgiya yadernogo goryuchego; svoystva i osnovy tekhnologii urana, toriya i plutoniya) Moscow, Atomizdat, 1964. 450 p. illus., biblio. Errata slip inserted. 1,950 copies printed.
	TOPIC TAGS: metal purification, uranium alloy, metal compound, thorium, thorium alloy, plutonium, plutonium alloy, metal physical property, metal melting, solid mechanical property, nuclear fuel, metal heat treatment, radiation effect, refractory compound 27.
	FURPOSE AND COVERAGE: In principle the book is a course of lectures presented by the authors at the Moscow Engineering Physics Institute. ¹ It examines the physical and chemical properties of uranium, thorium and plutonium and their important compounds and alloys. The characteristics of nuclear raw materials and the theory and technology of their processing, separation, and refining are discussed. Basic requirements of nuclear fuels, methods for their physico-chemical and heat treatment used in the production of maximum burn-up
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	L 2913-66			
	AM5007584			61
	Ch. VII. Uranium alloys 80			1997 - 19
	Ch. VIII. Uranium oxides — 104			
	Ch. IX. Refractory uranium compounds with carbon, nitrogen, a	silicon,	berylliu	n,
	boron and sulphur $12-124$ Ch. X. Uranium compounds with fluorine 145	. Z . (·	
	Ch. XI. Uranium deposits and ores 159			· []
]	Ch. XII. Uranium ore concentration methods 169			
•	Ch. XIII. Purification methods of uranium ore concentrates -	- 194	•	
	Ch. XIV. Deviation methods of UO2, UF4 and UF6 217		• .	
	Ch. XV. Production methods of metallic uranium - 229		• •	
	Ch. XVI. Refining and processing of uranium 276			
	PART 2. THORIUM	at , i		
		ing ¥ing an ang	• 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
	Ch. I. Metallic thorium - 280	2	et te	
	Ch. II. Important thorium alloys and compounds 294		ang an contractions.	
	Ch. III. Raw material sources and processing of thorium ores	307		·
- 1 - 1 - 1	Ch. IV. Processing of monasite concentrates 314			· · [.
·	Ch. V. Production of pure thorium compounds 324 Ch. VI. Production methods of metallic thorium 332			
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Ch. VII. Methode	s of thorium p	rocessing and	manufacture	of produ	cts 3	348
PART 3. PLUTONIL	M					ал А
Ch. I. Metallic					•.	
Ch. II. Plutoniu Ch. III. Methods	m alloys and o	compounds	377 nd nurificati	00	ADE	
Ch. IV. Producti	on methods of by-products -	metallic plu	tonium from	alts and	regenera	tion
		- 462		•.		
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YEMEL'YANOV. V.S. Science and life. Nauka i zhizn' 30 no.4:32-34 Ap '63. (MIRA 16:7) 1. Chlen-korrespondent AN SSSR. (Moscow--Universities and colleges) APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1"



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SEMENOV, N.R., polkovnik; GRIGOR'YEV, G.M., polkovnik; VESELOV, S.P., inzh.-polkovnik; ANDREYEV, N.R., polkovnik; ROMANOV, D.K., kapitan 1 ranga; YP/EL'YANOV, V.T., polkovnik, red. [Organization and armament of armies and navies of capitalist countries] Organizatsiia i vooruzhenie armii i flotov kapitalisticheskikh gosudarstv. Moskva, Voenizdat, 1965. (MIRA 19:1) 545 p. COP IN LA CIA-RDP86-00513R001962630003-1" APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962630003-1

MUSTAFAYEV, I.D.; YEMEL 'YANOVA, V.V. Duration of the stage of tillering and stalk formation in Land wheat samples of various geographical origins in Azerbaijan. 12%. AN Azerb. SSR. Ser. biol. i med. nauk nc. 1:25-31 163. (BIR: 17:5) APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1"





ACC NR	AP7005555		SOURCE C	ODE: UR/010	8/67/022/001/0068/	0074
AUTHOR:	Filonenko,	(Active muntur) V. A."; Yemel'ya	(Alinamin) nov; V. Ye. St	el'mashenko	Active member)	
ORC: So niches	cientific Te koye obshche	chnical Society C stvo radiotekhnik	f Radio Engine i i elekroniki	ering and El	ectronics (Nauchno	-tekh-
TITLE:	Errors in o	letermining the b als in systems wi	earing by mean	s of instant	aneous amplitude antennas	
SOURCE	Radiotekh	11ka, v. 22, no.	1, 1967, 68-74	i i i i i i i i i i i i i i i i i i i		
nulse a	militude				antenna, pulu ir	
ABSTRAC	CT: The autiource with u	nknown radiation	polarization w	then the meth	etermining the bea od of instantaneou rived for computin	18
the bea	aring charact	teristics of ante or the case of reg	ennas with elli der helical and	lptical polar cennas are gi	ization. Some com ven. It was concl	uded
indical	tion of regul	lar helical anter	nas with heli:	ces wound in	develop split bea the same direction the ellipse of the	vary
incident	nt field. W	hen the bearing of amplitude compari	of an object in Leon of signals	s determined s in respect	using the method o to the bearing cha	of aracter-
istic o	of the orien	tation of the ind	cident field is	s unknown, th	e result may be in is impossible to d	1- [
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建筑时间外销销工业约2000年1月1月 308-25-58-8-35/61 Yemel'yanov, Ya. , AUTHOR: Artificial Vanillin (Iskustvennyy vanilin) TITLE: Nauka i zhizn', 1958, Nr 8, p 67 (USSR) PERIODICAL: Vanilla, a dark brown pod exhaling the pleasant vanilla scent, ABSTRACT: is being used for many purposes in confectionery, perfumery and lately for preparing drugs. Only 3 7% vanillin is found in a vanilla pod, and this accounts for the high cost. For this reason scientists are endeavoring to find methods for producing vanilla artificially. The waste products of cellulose paper factories (sulfite-alcohol residual liquid) have proved to be a useful raw material for making artificial vanillin. The Syas'skiy tsellyulozno-bumazhnyy kombinat (The Syas' Cellulose-Paper Combine), Leningrad Oblast', was the first in the USSR to start the production of vanillin obtained from residual liquids of processed sulfite-alcohol. The method of making vanillin is described in the article. The technological process has been developed by the Vsesoyuznyy nauchno-issledovatel'skiy institut sul'fitno-Card 1/2APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1"



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Artificial Vanillin spirtovoy i gidroliznoy promyshlennosti (All-Union Scientific Research Institute of the Sulfite-Alcohol and Hydrolysis Industry). i. Vanillin--Synthesis Card 2/2

APPROVED FOR RELEASE: 03/15/2001

AUTHOR:	Yemel'yanov, Ya.	SOV	7/25-59-1-34/51
TITLE:	A House of Shavings (Dom	iz struzhek)	
PERIODICAL:	ي Nauka i zhizn', 1959,AN	r 1, p 67 (USSR)	
ABSTRACT:	The Engineers Prokhorov Tsentral'nyy nauchno-is mekhanicheskoy obrabotk Research Institute of M developed a project for out of shavings and turn the wood pulp industry. waste material is press of houses built of thes against rain, heat and	sledovatel'skiy insti i drevesiny (Central echanical Processing building a new type ings and other waste Applying high press ed into plates. The e plates proved to be	tut Scientific of Wood Pulp), of house - material of sure, the model samples e resistant
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	ACC NR: AT6022681 SOURCE CODE: UR/0000/66/000/000/0127/0130	
	AUTHOR: Yemel'yanov-Yaroslavskiy, L.B. 46	
	ORG: none	
•	TITLE: Fundamental concepts of the work of a visual analyzer in an informal automaton	
	SOURCE: <u>Moscow, Institut avtomatiki i telemekhaniki</u> , Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 127-130	
	TOPIC TAGS: pattern recognition, finite automaton, circuit design	
	ABSTRACT: The author examines the general mechanism of the work of a visual analyzer. The conditions required for an automatic device to purposefully function with visual informa- tion is studied, with special attention directed at the considerations underlying the design and operation of the information conversion unit (or "eye" of the machine). The static and dynamic effect of visual information on the automaton are considered, and a general exposition of the operation of a possible visual analyzer or sensor is given. The role of the solid angle of vision, the informational center of gravity, static and iterative perception, and neuron circuit structure are analyzed. Reading rate factors are discussed and the principle of the dynamic perception	
	Card 1/2	

and complex recognition	5022681 ormation is ex configuration problem exists ers is subordi is seen as an	are consider for the auto nate to a con	red, and i maton, b nmon pro	It is shown ut that the blem: the	that no e functioni minimiza	ng of the ntion of t	ained, i visual the field	and all of activ	the rity.
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YEMEL'YANOV, Ya. G.

Electric Transformers

Change of acid transformer oil in 110 and 220 KV lead-ins, Energ, biul, no. 2, 1952.

MLRA, Library of Congress, May 1952, Unclassified.

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Centrifuges Experience in c	nerating a cer	trifuge.	Rab.	energ.	2 No.	4:24-2	25 Ap	152.		
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Monthly List of	<u> Russian Acce</u>	ssions, L	itrary	of Cor	igress,	July	1952.	Unclassifi	ed.	· ·
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1.	YEMEL'YANOV, Ya. C.		
2.	USSR (600)		
4.	Electric Transformers		
7.	Device for protection of inlet of Energ. biul. No. 8, 1952.	oil against oxidation.	
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9. 🛓	onthly List of Russian Accession	s, Library of Congress,	1/00, 0.01000111001
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2. USSR (600)					
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1. PLOKHIN, A.M.; SHIRNOVA, I.V.; EMEL'IANOV,)	<u>K.G.</u>
2. USSR (600)	
4. Electric Transformers	
7. Device for measuring ohmic resistance and tran A.H. Plokhin, Eng. I.V. Smirnova, Eng. Ya. G.	nsforming coefficient of transformers, Emel'ianov, Rab.energ. 3 no. 3, 1953.
9. Monthly List of Russian Accessions, Librar	y of Congress, APRIL 1953, Uncl.
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CIA-RDP86-00513R001962630003-1

YEMEL'YANOV, YA.C.

Device for testing transformer oil during equipment inspection. Energ.biul. no.9:31-32 S '53. (MLRA 6:8) (Electric transformers)



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•			AID P - 678
S	ubject	:	USSR/Electricity
C	ard 1/1	Pu	b. 29 - 13/24
A	uthors	:	Plokhin, A. M., Foreman, Smirnova, I. V., Eng. and Yemel'yanov, Ya. G., Eng.
T	itle	:	New construction of the electric heater in a centrifugal machine
P	eriodical	:	Energetik, 7, 22, J1 1954
A	bstract	:	The new electric heater for the NSM-3 type of centrifugal machine is briefly described and illustrated by a drawing.
I	nstitution	:	None
	nstitution ubmitted		

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1

Yemel	YANOV, Ya.G.
Subject	: USSR/Electricity AID P - 883
Card 1/1	Pub. 29 - 16/23
Author	: Yemel'yanov, Ya. G., Eng.
Title	: Device for pumping transformer oil from the collecting tank of the centrifugal separator
Periodical	: Energetik, 10, 24, 0 1954
Abstract	: The author briefly describes the device. One drawing.
Institution	
Submitted	: No date

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AUTHOR: Yemel'yanov-Yaro	oslavskiy, L.B.		43 BHI
ORG: none			BHI
TITLE: Principles of an info	rmal self-organizing automat	<u>con</u> 4	
SOURCE: <u>Moscow. Institut a</u> avtomaticheskiye sistemy (Se 113-126	avtomatiki i telemekhaniki. If-instructing automatic syste	Samoobuchayushchiyesy ems). Moscow, Izd-vo	va Nauka, 1966,
TOPIC TAGS; self organizing	z system, automaton, neuron	, bionics, circuit desig	m
ABSTRACT: The author cons the properties of natural autor refining these postulates. An derived from biological data a maton is designed on the basis seen as the paramount problem	matons. The primary purpose a expository approach, limited and research engineering expo- s of neurons, with the selecti m, since the relation of mach v accepted physiological views	se of the paper is in ver d to fundamental autom eriments is presented. on of the neuron charac- line properties to neuron s are incorporated in the	rifying and aton notions The auto- cteristics on properties ne determina-
is an intimate one. Currently tion of the hypothetical machin Card 1/2	ne neuron. Not all the prope	rties of natural neuron	
is an intimate one. Currently tion of the hypothetical machin	ne neuron. Not all the prope	rties of natural neuron	

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ACC NR: AT6022680

into account in this approach. The arrangement of the hypothetical neuron is largely based on information concerning the natural neuron. However, various speculative considerations were of equal weight in the treatment of the problem. The fundamental principles of the automaton are reviewed, and the plane neuron chain is described as the essential machine element. A system of neuron postulates is outlined, and it is shown that in a system consisting of elements with the properties described, self-organization will be present and such a system will have the ability to "work." The concepts of self-organization and work as they apply to an automatic machine are defined in the form of (intuitive) conditions and criteria. The formation of the primary network and "embryogenesis" as the first step in the existence of the automaton are analyzed, and the structure and fundamental mechanisms of the neuron chain are discussed. The work of the automaton is studied in the light of these mechanisms, together with an analysis of "rhythm memorization." Four working mechanisms or principles are seen as fundamental to the system: information locking, compensation, generalization, and excitation centers; these mechanisms must be provided, among other things, by the neuron. Two modalities of neuron interaction, vital to system operation, are distinguished and explained: contact interaction and field interaction. Orig. art. has: 12 figures.

SUB CODE: 06,09/ SUBM DATE: 02Mar66

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L 15712-66 EVT(1)/EWT(m)/EWP(m)/EWA(d)/T/FCS(K)/EWA(1) WW/JW/HE ACC NR: AT6003104 SOURCE CODE: UR/3181/63/000/015/0325/0330	
 AUTHOR: Dorofeyev, V.M.; Levin, V.Ta.; Yemel'yanov, Ye.I.	
ORG: None TITLE: Method of testing powder type gas generators $B+1$	
SOURCE: <u>Kuybyshev. Aviatsionnyy institut.</u> Trudy, no. 15, pt. 2, 1963. Doklady kustovoy nauchno-tekhnicheskoy konferentsii po voprosam mekhaniki zhidkosti i gaza (Reports of the <u>Joint scientific-technical</u> <u>conference on problems of the mechanics of liquid and gas</u>), 325-330	
TOPIC TAGS: gas engineering, combustion engineering, test method	5
ABSTRACT: The experimental unit permitted oscillograph recording of the change in weight of the fuel charge during the <u>combustion process</u> A scheme of the apparatus is given in the article. The experiments were aimed at answering a series of practical questions in the design / 5 of more efficient powder type gas generators: determination of the gas	
flow rate through the nozzle, temperature of the gas before the nozzle, velocity of the gas through the nozzle opening, and the magnitude of the linear rate of fuel combustion in the chamber, as well as measure- ment of the change in weight of the fuel. Formulas are developed in the article for calculation of the temperature of the gas before and	
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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1 L 15712-66 ACC NRI AT6003104 after the nozzle. No actual experimental data are given. has: 14 formulas and 5 figures. Orig. art. SUB CODE: /O SUBM DATE: 00/ ORIG REF: 001/ SOV REF: 000/ OTH REF: 000 21 APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1"

YEMEL'YANOV, Ye.M. Recent data on sediments of the Mediterranean Sea. Dokl.AN SSSR. 137 no.6:1437-1440 Ap '61. (MTRA 14:4) 1. Chernomorskaya nauchno-eksperimental'nayua stantsiye, institut okeanologii AN SSSR. Predstavleno akademikom N.M.Strakhovým. (Mediterranean Sea-Sediments (Geology)) (Mitterranean Sea-Sediments (Geology)) Approved For Release: 03/15/2001 CLA-RDP86-00513R001962630003-1"

YEMEL'YANOV, Ye.M. Some data on the suspended material in the Black and Mediterranean Seas. Okeanologiia 2 no.4:664-672 '62. (MIRA 15:7 (MIRA 15:7) 1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya stantsiya Instituta okeanologii AN SSSR. (Black Sea-Sedimentation and deposition) (Mediterranean Sea-Sedimentation and deposition) CIA-RDP86-00513R001962630003-1" APPROVED FOR RELEASE: 03/15/2001





TEMEL'YANOV, Ye.M.; SHIMKUS, K.M.
Study of the variability of deep-sea sediments in the Black Sea. Okeanologiia 2 no.6:1040-1049 '62. (MIRA 17:2)
1. Chernomorskaya eksperimental'naya nauchno-issledovatel'-skaya stantsiya Instituta okeanologii AN SSSR.

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 "Motorboat" by L.L.Romanenko, L.S.Shcherbakov. Reviewed by

 IU.Zmel'ianov. Za rul. 18 no.6:31 Je '60. (MIRA 13:8)

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L 27897-66 EWT(m)/FCC/T IJP(c) SOURCE CODE: UR/0048/65/029/009/1719/1721	
AUTHOR: Babayey, M.K.; Denikayey, R.Z.; Yenel'yanoy, Yu. A.; Zhukoy, Ye. I.; Lukin, /4	
Yu. T.; Kurzin; V.S.; Khomenko. G.S.	
ORG: none	-
TITLE: Fluctuation in the number of particles in an electromagnetic shower at 110 Bey /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August	
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SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1719-1721	
monto TAGE: secondary commic ray, cosmic ray shower, electron, photon, iron	
ABSTRACT: Electron-photon showers were investigated in an ionization calorimeter com ABSTRACT: Electron-photon showers were investigated in an ionization calorimeter com sisting of the following components in order from the top: 13 cm G, 3 cm Fe, 8 trays of ionization chambers each followed by 5 cm Fe, 2 trays of chambers with no absorber of ionization chambers each followed by 5 cm Fe, 2 trays of chambers separated and fol- between, 1 cm Fe, 160 g/cm ² C, 3 cm Pb, and two trays of chambers separated and fol- between, 1 cm Fe, 160 g/cm ² C, 3 cm Pb, and two trays of chambers separated as electron lowed by 2 cm Pb. Showers initiated by cosmic ray particles were regarded as electron photon showers if they produced ionization in at least one of the two uppermost trays and no ionization in the two trays beneath the large carbon absorber. Of 334 electron photon showers thus identified, 152 had energies between 100 and 200 BeV. The ioniza- tion versus depth curves for these showers were normalized to a primary energy of 110	00- 5 00-
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用于FELL和新闻的非常的现在分词用。因此在大学会和自己的问题。 يوجعهم والمتهيد ورياسه والمرجع وتوطي L 27897-66 0 ACC NR: AP5024642 Bey and averaged, and the average curve was compared with theoretical curves calculated for different assumed values of the radiation length in iron. Good agreement was obtained with the curve based on a radiation length of 12.6 g/cm². This value of the radiation length in iron was confirmed by comparing the observed depth of maximum shower development with calculated values. The fluctuation (ratio of the mean square to the square of the mean) in the number of particles in the showers as a function of depth was compared with the calculated curve of N.M.Gerasimova (Zh. eksperim. i teor. fiz., 43, 500 (1962); 44, 240 (1963)). Good agreement was found at depths less than 23 radiation units, but at greater depths the observed fluctuations were much less than the calculated ones. In conclusion, the authors express their gratitude to Zh.S. Takibayev for valuable discussions. Orig. art. has: 1 formula, 3 figures, and 1 table ORIG REF: 004/ OTH REF: 000 SUBM DATE: 00/ SUB CODE: NP/ Card 2/2

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EABAYEV, M.K.; DENIKAYEV, R.Z.; YEMEL'YANOV, Yu.A.; ZHUKOV, Ye.I.; LUKIN, Yu.T.; MURZIN, V.S.; KHOMENKO, G.S. Fluctuations in the number of particles in an electromagnetic shower at an energy of 1.1 · 10¹¹ ev. Izv. AN SSSR. Ser. fiz. 29 no.9:1719-1721 S '65. (MIRA 18:9)

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ACC NR: AP7007077 SOURCE CODE: UR/0048/66/030/010/1602/1603 AUTHOR: Denikayev, R. Z.; Yemel'yanov, Yu. A.; Lukin, Yu. T.; Takibayev, Zh. S.; Khomenko, G. S. ORG: none TITLE: Probability of the recording of "Stars" by an ionization calorimeter /Paper presented at the All-Union Conference on Cosmic Radiation Physics, Moscow, 15-20 Nov 1965/ SOURCE: AN SSSR. Izvestiya. Seriyz fizicheskaya, v. 30, no. 10, 1966, 1602-1603 TOPIC TAGS: calorimeter, astrophysics, star, neutron, proton, alpha particle, deuteron SUB CODE: 08 ABSTRACT: Upon interaction of nucleus-reactive particles with matter, there is not only formation of new particles but also fission of nuclei of the target, which is accompanied by the emission of low-energy neutrons, protons, deuterons, and A - particles: i. e., formation of so-called "starts," The ionization produced by strongly ionizing particles of the stars is added to that due to electrons of the shower and measured, together with the latter, in an ionization calorimeter. On the basis of experimental data obtained on an instrument of the ionization calorimeter type, in which iron was used as an absorber, the contribution of stars to ionization was estimated at \sim 10% of the ionization due to the nuclear shower. Orig. art. has: 2 figures and 3 formulas. /JPRS: 39,658/ Card 1/1

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APPROVED FOR RELEASE: 03/15/2001

YEMEL'YINOV, Yu. D.

Yemel'yanov, Yu. D.

"Geophysical Methods of Determining the Elements of Stratification of Deposits Based on Observations in Small-Diameter Oil Wells." Min Petroleum Industry USSR. Glavneftegeofizika (Main Petroleum Geophysical Office). Sci Res Inst of Geophysical Methods of Prospecting (NIIGR). Moscow, 1955. (Dissertations for the Degree of Candidate in Technical Sciences).

SO: Knizhnaya Letopis', No 27, 2 July 1955







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fertilizing action of the meteoric substance itself, an expedition of the Sibirskoye otdeleniye AN SSSR (Siberian Branch of the AS USSR) under G.F. Plekhanov and V. Koshelev, set up in 1960, planted test trees at various distances from the point of impact. After the fall of the meteorite, the coniferous trees were replaced by their own kind. There are no deforested areas now, except for those due to soil destruction. The new plantations are irregularly dispersed, they contain no more than 700-1200 trunks per 1 ha, the trunks are very regularly distributed and there are no signs of dying-off. Forty- to fifty-year-old trees of large and medium thickness were found to have grown to heights of 17-22 m as compared with the 7-8 m normal under analogous conditions. The central part of the area of forest destroyed by the meteorite is now occupied by trees with class 11 and even class I bonitet, and the peripheral areas by trees of class III bonitet; normally, the forests of this zone have class IV and V bonitets, rarely class III. The mean annual growth in diameter of trees suffering damage to the base of the trunk by burning was 5.0 mm,2-4 years after the fall of the meteorite as compared with 1.2 mm before. Further investigation is required to establish the causes of the described phenomena. There are 3 figures and 2 Soviet references.

Card 2/2

Did the Tunguska ...

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时间转出转开西部出现自己 和 经济利用 化 89339 S/534/60/000/19/003/005 3,9000 (1041,1109,1327) D226/D302 Florenskiy, K.P., Vronskiy, B.I., Yemel'yanov, Yu.M., AUTHORS: Zotkin, I.T., and Kirova, O.A. Preliminary results of the work of the 1958 Tungussk TITLE: Meteorite Expedition PERIODICAL: Akademiya nauk SSSR. Komitet po meteoritam. Meteoritika, no. 19, 1960, 103-134 TEXT: The object of the expedition, organized by the KMET (Committee on Meteorites) AS USSR was to carry out fieldwork in the area of impact of the meteorite which fell in 1908. Previous investigations were conducted inaccurately and inferences concerning the dimensions of the destruction area, its topography and other characteristics were based on insufficient data. The orga-nizer of the expedition was K.P. Florenskiy, member of the Institute of Geochemistry and Analytical Chemistry im. Vernadskiy. Card 1/13

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Preliminary results of the work ...

Other members of the expedition were: O.A. Kirova -- Minerologist, B.I. Vronskiy -- Geologist, Yu.M. Yemel'yanov -- Chemist, I.T. Zotkin -- Astronomer, S.A. Kuchay -- Physicist, P.N. Paley -- Chemist, 2 KMET laboratory assistants, Ye.I. Malinkin, T.M. Gorbunova, and a "collector" K.D. Yankovskiy, who took part in the expedition of 1929-1930, and who, therefore, was able to evaluate changes in the area during the last 28 years. The expedition was joined by camera operator M.A. Zaplatin from the Moscow Studio of Documentary Films and had two local senior guides: A.I. Dzhenkoul' and A.I. Doonov. The expedition left Moscow on June 3 and returned on August 10 having spent 34 days in the studied area. The tasks of the expedition were as follows: 1) To undertake trans-section routes through the whole area of the forest fall of 1908, to determine its general character, its extension and boundaries; 2) to collect soil samples and analyze them on the spot for their iron and nickel content and determine

Card 2/13

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89339 s/534/60/000/19/003/005 D226/D302 Preliminary results of the work ... the ratio Ni : Fe., on the assumption that the meteorite was an iron one. The most interesting samples were to be taken twice and retained for more detailed study in Moscow. It was planned to collect samples throughout the whole area from squares with a side length of 5 km. This plan was abandoned later; 3) to work out a fieldwork plan for the next expedition, based on actual observations and collected data. The expedition established camp in the hamlet Kulik in the north-western part of the area. <u>Preliminary results of the fieldwork:</u> The destruction of the forest, caused by the 1908 meteorite is still the most important evidence of its impact and was, accordingly, most thoroughly investigated. Leafy trees which fell in 1908 were, of course, completely rotten but conifers were well preserved, although general observations were hindered by the growth of young trees. The whole area of forest destruction amounts to 1500 km². This can be clearly observed by the scale of forest-fall and the radial character of its distribution. The whole region was divided by Card 3/13

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ISERVESTALENDER AV STATESTALEN STATESTAREN STATESTAREN STATESTAREN STATESTAREN STATESTAREN STATESTAREN STATESTAR 89339 s/534/60/000/19/003/005 Preliminary results of the work ... D226/D302 the expedition into three zones. 1) A zone, where the trees fell without any clear orientation, called "unoriented zone". It is situated in the depression around the "Yuzhnoye Boloto" (Southern Marsh) and forms the central region, from whose boundaries the radially oriented forest fall begins; 2) The second area was called the zone of "mass forest fall", although isolated groups of living old trees were to be found in this area. Visual estima-tion of fallen trees amounted to 80-90 %; 3) The zone of partial forest destruction; its area could be estimated only approximately, the percentage of fallen trees near its boundaries amounting probably to 15 - 20 %. These boundaries estimated by the agreed fairly well with those given by local expedition hunters and with the aerovisual estimation made by K.P. Florenskiy in 1953. The expedition studied also the remainder of the forest conflagration which took place during the catastrophe. Its conclusions differ from those expressed by previous investigators: Ye.L. Krinov (Ref. 1: Tungusskiy Meteorit / Tungussk Me-Card 4/13 APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1"

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Preliminary results of the work ...

teorite7 Izd-vo AN SSSR, 1949) and L.A. Kulik (Ref. 14: Dannyye po Tungusskomu meteoritu k 1939 g /Data on the Tungussk Meteorite for 19397 Dokl. AN SSSR, 22, no. 8, 520-524, 1939) both thought that during the catastrophe, spontaneous partial burning of broken trees took place without provoking a general forest fire. The conclusions of the expedition may be summarized as follows: 1) Near the center of the devastation area, many broken trees show burntraces at their breaking spots. This clearly proves the sequence of events: Burning occurred after the action of the shock-wave; 2) Traces of burning do not show any definite orientation toward the center of devastation area. They occur in most cases on the eastern side of trunks, as a result of wind direction during the fire; 3) Many trunks clearly indicate prolonged conflagration. B.I. Vronskiy found on the "Yuzhnoye Boloto" two well developed living twin-larches. One of them was found to be 104 years old. Both trees were devoid of any traces of fire; they survived because they grew in the middle of the marsh,

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Contraction of the second states and the second states and the second states and the second states and the second states are second states and the second states are second s 89339 S/534/60/000/19/003/005 Preliminary results of the work ... D226/D302 where the fire could not penetrate; 4) In all probability the fire was a result of the catastrophe; in type it differs from typical taiga fires by the clearly surface character of the burn, and its area comprised most of the area of the zone of "mass forest fall", where fallen trees had accumulated in great quantity. Some observations, however, suggest several starting points for the forest conflagration, from which the fire spread in a normal way /Abstractor's note: These not given7. It may be assumed, the authors state, that the timber fall and the forest fire were effects of the same cause. As regards the growth of new trees the expedition concluded that young trees grow very fast in burned areas. Some of these trees, found to be 35-40 years were much thicker than the dead ones (100 or even 300 years and). Old surviving trees, which were dwarfed before the fire, showed an intensified growth subscattently. Further biological investigations are needed, the authors state, but at present one connot speak of a dwarfing influence of the catastrophe on vegetal Card 6/13

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growth. The expedition carried out an extensive search for any earth disturbances which could be the results of an explosion with a possible energy equaling 1020 - 1023 ergs., according to F. Whipple (Ref. 7: "The Great Siberian Meteor and the Waves, Seismic and Aerial which it produced". Journ. of the Roy. Meteorological Soc., 56, no. 236, 1930). None were found. Certain depressions or holes which were examined resulted, in fact, from the dissolution of gypsum in the subsoil, and on one occasion from a temporary lake, formed by a dam of fallen trees (since burst). The "Yuzhnoye Boloto" which is one of the proposed places of the meteorite's impact was transpaced four times by K.P. Florenskiy, Yu.M. Yemel'yanov and B.I. Vronskiy. No traces of destruction which could possibly be associated with a powerful explosion were observed, no rock eruptions, no peat disruptions. All members of the expedition unanimously agreed, the "Yuzhnoye Boloto" could not be the center of a surface explosion which produced the general forest fall; the formation of a crater,

Card 7/13

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Preliminary results of the work ...

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many hundreds of meters in diameter, which was subsequently overgrown, is regarded by the members as a quite improbable assumption, but this opinion does not exclude the possibility that certain parts of the metcorite could have fallen to the bottom of the bog without having any critical explosive consequences. In order to ascertain the presence of iron and nickel, soil samples were taken from about 80 places, most of these in the "unoriented zone". Undisturbed turf and soil layers (5 dm² in area and 5 cm thick) were dug out. Their thickness was sufficient, because the increase in soil-thickness in this district is much less than 5 cm per 50 years and therefore, the soil layer corresponding to 1908, was always included in the samples. The samples were then disintegrated over a basin fitted with 3 magnets, (roots removed manually), and the soil was thoroughly we shed in the basin. The residual magnetic slush was rinsed many takes through a magnetic trap. The particles in the magnetic

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slush were mostly over 0.1 mm, although certain of them were up to ten times smaller. The residue was then dried and samples weighing 0.1 - 1.0 g were dissolved in HCl and tested calorometrically for Fe and Ni. When no traces of Ni were found in this way, separate iron particles were picked out from the residue and examined by 0.4. Kirova. Again only negligible traces of Ni were found, which proves the non-cosmic origin of those particles. Apart from irc. particles certain minute silicomagnetic globules were observed. They were not analyzed on the spot, but brought back to Mcscow. Even if they did come from outer space, there is no evidence to connect them with the meteorite. Upon returning to Moscow, the expedition forwarded soil and peat from the area of "Yuzhnoye Boloto" to the Institute of Geochemistry and Analytical Chemistry AS USSR to determine their radioactivity. Tests, conducted under the supervision of Professor V.I. Baranov showed that there were no differences in the radioactive content of the given samples and that of similar soils from other regions. The

Card 9/13

APPROVED FOR RELEASE: 03/15/2001

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Preliminary results of the work ...

authors conclude that 1) The general aspect of the forest devastation suggests that the basic direction of the shock was from above; this means that the wave center was situated high above the earth's surface; 2) The fact that no parts of the meteorite were found does not prove that they did not fall into the area, for only a few routes -- made on foot -- were investigated; 3) There could have been several starting points for the fire as the result of the shock wave from above; 4) The contours of the zone of mass forest destruction and the excentricity of the "unoriented zone" suggest the action of a shock-wave having neither the correct spherical shape, nor central symmetry. Nevertheless, this assumption seems to be contradicted by the radial distribution of the fallen trees; 5) During the fieldwork, no particles of an iron meteorite were found. These negative results may have been due to: The great dispersion state of meteorite particles which were too small to be separated by the normal methods applied in fieldwork; the possibility of complete oxidation of minute

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iron particles over 50 years; the notable deviation of dispersion ellipse from the center of the forest fall. The assumption that the meteorite was of the iron-type has no factual foundation, but, on the basis of currently available data, it is also impossible to place it in any other category; 6) The authors point out the discrepancy between the general atmospheric disturbance in 1908 and the testimony of eye withesses; None of them spoke of powerful smoke trails of the meteorite. It is possible that such a smoke-tail detached itself from the meteorite in the upper part of the atmosphere. Eye witness testimony was reexamined, but found rather obscure and confusing. All these considerations suggest that at present, it is too early to consider the Tungussk meteorite as belonging to the crater forming category. Apparently the meteorite caused great devastation on the earth's surface without a crater being formed. General information on the destructive action of shock-waves may be found in the work of K.P. Stanyukovich, G.S. Golitsyn (Ref. 6: Udarnyye volny /Shock Waves/,

Card 11/13

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Preliminary results of the work ...

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Priroda, no. 12, 1958) Academician A.P. Vinogradov asked M.A. Tsikulin and V.N. Rodionov (Ref. 15: Priblizhennaya otsenka parametrov Tungusskogo meteorita 1908 g po karte razrusheniy lesnogo massiva /Approximate Evaluation of the Parameters of the Tungussk Meteorite of 1908, according to the Map indicating Forest Zone Destruction/, Narodnokhozyaystvennoye ispol'zovaniye vzryva, no. 6, Sibirskoye otd. AN SSSR, 1959) to interpret the findings of the expedition. Their evaluation showed that the observed phenomena could be best explained as the results of a shock wave, submitted to an acute braking action, caused by the disintegration of the meteorite. The authors suggest a plan for further investigations, which includes: 1) Preparing a very detailed map of the forest zone destruction, using all new available topographic data of the whole area; 2) Searching further for meteorite parts on the earth's surface and in the deposits of lake beds; 3) Researching on the dispersion ellipse outside the devastation area; 4) Studies by marsh specialists on possible changes in

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Preliminary results of the work ...

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peat formation in the "Yuzhnoye Boloto" and in the state of subsoil permanent freezing; 5) Studying the general ecology of the area; 6) Studying in detail all the material collected. The authors feel, therefore, that it is necessary to organize a new expedition, comprising specialists of many kinds, and that it is important to do it as soon as possible for the traces of the meteorite impact are already fading. There are 27 figures, 1 table and 15 references: 13 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: F. Whipple. "The Great Siberian Meteor and the Waves, Seismic and Aerial which it Produced." Journ. of the Roy. Meteorological Soc., 56, no. 236, 1930.

Card 13/13

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YEMEL'YANOV, Yu.M.; NEKRASOV, V.I.

. . . .

Abnormal growth of arboraceous vegetation in the region of the fall of the Tunguska meteorite. Dokl. AN SSSR 135 no.5:1266-1269 D '60. (MIRA 13:12) 1. Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova i Glavnyy botanicheskiy sad AN SSSR: Predstavleno akademikom V.N. Sukachevym.

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(Podkamennaya Tunguska Valley-Meteorites) (Growth (Plants)) (Trees)

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/	USSR/Physi	cal Chemistry - Electrod	hemistry.	B 012	-
	Abs Jour:	Referat. Zhurnal Khimiya	, No 2, 1958, 398 2		
	Author : Inst :	Yu.V. Filippov, Yu.M. Ye	mel'yanov.		
	Title :	Electrical Theory of Ozo Characteristics of Ozoni	mizers. I. Static Volt zers.	-Ampere	
	Orig Pub:	Zh. fiz. khimii, 1957, 3	1, No 4, 896-903.		
		ozonizers (0) with spark carried out. It was fou the first approximation of which is determined of capacity and the capacit on the examination of the age on the spark gap of discharge burning and do	as two straight segment correspondingly to the t by of the dielectric bar he SVC, it was concluded the O remains constant	represented in s, the slant otal electric riers. Basing that the volt- during the	
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B-12 USSR/Physical Chemistry - Electrochemistry. Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3982. current passing through the O. Equation for the computation of the intensity of the current passing through the 0 at a given voltage on the O are derived. An installation is desa cribed, which permits to maintain a constant pressure and a set speed of the gas flow automatically. 1. Missharsking gas. UNIV. 100 Lem 1 dar Dit -24-: 2/2 Card APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1"



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5(4) SOV/76-32-12-25/32 Filippov, Yu. V., Yemel'yanov, Yu. M. AUTHORS : The Electrical Theory of Ozonators (Elektricheskuya teoriya TITLE: ozonatorov) III. Electric Current in Ozonators (III. Elektricheskiy tok v ozonatorakh) Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 12, pp 2817-2823 PERIODICAL: (USSR) Based on a previously outlined theory (Refs 1 and 2), the **ABSTRACT:** expressions for the dependence of the actual and average values of the current passing through the ozonator on the terminal voltage of the ozonator and its constructive parameters are calculated. The static actual volt-ampere characteristic of an ozonator below the critical voltage is represented by a straight line passing through the origin of coordinates (as is the case with all condensers); the inclination of this straight line is determined by the aggregate electric capacity of the ozonator. If the voltage exceeds the critical value, the characteristic takes the form of an asymptote, again approaching the straight linge passing through the origin of coordinates. The inclination of the straight line is now only determined by the dielectric barriers of the ozonator. Accordingly, the entire volt-ampere Card 1/2APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1" "APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962630003-1

The Electrical Theory of Ozonators. III. Electric 50V/76-32-12-25/32 Current in Ozona'ors characteristic is S-shaped. The static volt-ampore characteristic for the average values of the current consists of two straight lines intersecting at the point of critical voltage. There are 2 figures and 5 references, 2 of which are Soviet. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov) SUBMITTED: June 15, 1957 Card 2/2	The Electrical Theory of Ozonators, first first first and current in Ozonators characteristic is S-shaped. The static volt-ampere characteris for the average values of the current consists of two straight lines intersecting at the point of critical voltage. There are 2 figures and 5 references, 2 of which are Soviet. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov) SUBMITTED: June 15, 1957	.stic it
for the average values of the current consists of two straight lines intersecting at the point of critical voltage. There are 2 figures and 5 references, 2 of which are Soviet. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov) SUBMITTED: June 15, 1957	for the average values of the current consists of two straight lines intersecting at the point of critical voltage. There are 2 figures and 5 references, 2 of which are Soviet. ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov) SUBMITTED: June 15, 1957	is ti c it
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28(4) AUTHORS:	SOV/32-25-4-52/71 Yemel'yanov, Yu. M., Filippov, Yu. V.
TITLE:	Automatic Pressure and Gas Consumption Regulating System (Sistema avtomaticheskogo regulirovaniya davleniya i ras- khoda gaza)
PERIODICAL:	Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 490 - 491 (USSR)
ABSTRACT:	A setup has been designed which can be used to maintain auto- matically a constant gas pressure in laboratory plants (Fig). Basically, it consists of two manostats and a contact mano- meter. The working principle on which it is based is that of a mercurymanometer closing an electric circuit as soon as the pressure in the plant increases. The electric contact actuates a water jet pump produce a vacuum in one of the manostats, which in turn causes the pressure in the plant to diminish. As soon as the pressure desired is produced the mercury in the manometer sinks to such a point as to break the electric circuit, so that the vacuum pump is de-energized.
Card 1/2	The electric electric to that the variant pressure differ- T the pressure is to be adjusted to very small pressure differ- ences a contact manometer with several contacts is required.
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Automatic Pressure and Gas Consumption Esgulating SOV/32-25-4-52/71 System The apparatus described could be used for stabilizing gas consumption within a range of 2-350 l per hour. The power source consisted of two batteries ZS-L-30 with a capacity of 30 a/hour and 1.5 v. There is , figure. ASSOCIATION: Moskovskiy goudarstvonnyy universitet im. M. V. Lomonosova (Moscow State University denoised M. V. Lomonosov) Card 2/2 APPROVED FOR RELEASE: 03/15/2001 CLA-RDP86-00513R001962630003-1"

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5(4) AUTHORS:	SOV/76-35-5-13/33 Yemel'yanov, Yu. M., Filippov, Yu. V. (Moscow)
TITLE:	The Electrical Theory of Ozonizers (Elektricheskaya teoriya ozonatorov). 4. On the Active Energy of Ozonizers (4.0b aktivnoy moshchnosti ozonatorov)
PERIODICAL:	Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5, pp 1042 - 1046 (USSR)
ABSTRACT :	The formula for the energy of the ozonizer is derived from the assumptions of the passage of the current through an ozonizer maintained in a previous paper (Ref 2). It can be physically interpreted in the simple form $U=V_z(I_c - I_b)$ as
	the difference of the Coulomb current I passing through with
	the ignition voltage V_z in 1 sec and the reactive current I_r .
	The energy is a linear function of the voltage on the ozonizer. The experimental aftertest was carried out by means of the calorimetric passage method. This method consists in measuring the temperature increase of the cooling liquid of the ozonizer and comparing it to an equivalent energy by which temperature increase is not brought about by discharge but in a way by
Card 1/2	which measurement is rendered possible. A figure shows the

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The Electrical Theory of Ozonizers. 4. On the Active Energy of Ozonizers

agreement of the measuring values with the values determined, especially in the case of ozonizers with a small spark gap. Longer spark gaps (2.5 - 4.2 mm) show deviations from the linear connection because of complications already mentioned in reference 5. There are 1 figure and 7 references, 5 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet ir. M. V. Lomonozova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: October 10, 1957

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.5 (4) AUTHORS:	Filippov, Yu. V., Yemel'yanov, Yu. M. SOV/76-33-8.17/39 Electrical Theory of Ozonizers. V. On the Problem of the Power
TITLE:	Electrical Theory Conizers Coefficient of Ozonizers Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 8, pp 1780 - 1787 (USSR)
PERIODICAL:	(USUR)
ABSTRACT:	cient (PC) of the (0) and the voltamp different parameters. The power (AP) of the (0) and the voltamp different parameters. The regarding the dependence of (PC) on different parameters current regarding the dependence of (PC) on different parameters current ally, (VP) is considered the product of the expression (1) is and voltage values; here, however, a complex expression (1) is and voltage values; here, however, a complex expression (1) is and voltage values; here, however, a complex expression of the obtained for the (PC) η of (0) which is very inconvenient in obtained for the (PC) η of (0) which is the product of the obtained for the (PC) η of (0) which is product of the product of the obtained for the (PC) η of (0) which is product of the product of the obtained for the (PC) η of (0) which is product of the product of the obtained for the (PC) η of (0) which is product of the product of the obtained for the (PC) η of (0) which is product of the product produ
0 1 /3	obtained for the vertexpression for the das the product of the practice. A simpler expression for the das the product of the (PC) η ! is obtained if (VP) is regarded as the product of the amplitude value of the voltage and the mean current value. Both amplitude value of the voltage and the mean current the equations ob- ways of determination are considered, and from the equations ob- ways of determination are considered, and from the equations ob- ways of determination are considered, and from the ourrent fra- ways of determination are considered, and sponse he of the simplified critical voltage; and approaches asymptotically the zero point (at a voltage tending to ∞). Considerations of the simplified
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SOV/76-33-8-17/39 Electrical Theory of Gzonizers. 7. On the Problem of equation (3); i.e. the (PC) η ', resulted in an equation (8) for the Power Coefficient of Ozonizers Which contains no expressions other than the capacity of max the discharge space (DS) and the dielectric barriers of (0). Thus, the maximum of (PC) does not depend on the electrical properties of the gas in (0) but on the dimensions of (0) only. Experimental determinations regarding the dependence of N' on the voltage were carried out for (0) of different (DS) values (1.0. 2.1, 2.9 and 4.2 mm) at different rates of oxygen flow (3 - 340 1 Fer hour). The unit has already been described (Ref 9) the (AP) was determined calorimetrically (Ref 7). The amplitude values of the voltage were calculated from the offective values determined by means of a static kilovoltmeter FS-15. The mean current value was measured by a millianmeter (with a cuprous oxide rectifier To-41). The measurement results of the (FC) (Table 1) show, in accordance with the theoretical considerations made above; that the (PC) passes through a maximum as the voltage increases. The voltages at 2 max max as well as the value η_{max}^* itself, increase at an increase in the (DS). The Card 2/3 CIA-RDP86-00513R001962630003-1 APPROVED FOR RELEASE: 03/15/2001

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Electrical Theory of Ozonizers. V. On the Problem of SOV/76-33-8:7/33
Electrical Theory of Ozonizers
(PC) depends on the rate of oxygen flow, which will be explained in a future paper, where it is shown as well that this is due to in a future paper, where it is shown as well that this is due to there are in the gas composition in the course of orone formation. There are 3 figures, 2 tables, and 9 references, 4 of which are Soviet.
ASSOCIATION: Moskovskiy gosidarstvennyy universitet in. M. V. Lemonosova (Noscow State University imeni M. V. Lemonosova)
SUBMITTED: January 27, 1958

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	Yemel yanovy
777001	Yemel'yanov, Yu. H., IIIII Straw State of the Forma- Electrical Theory of Ozonizers. VII. The Effect of the Forma- tion of Ozone on the Current-voltage of Ozonizers
PERIODICAL:	Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 5, pp. 1083-1087 c the present paper carried out special investigations
	the present paper carried our exprent voltage char-

TEXT: The authors of the present paper carlies the current-voltage charof the effect of the concentration of ozone on the current-voltage characteristics and capacity of the ozonizer. They used a device described in Ref. 1. The concentration of ozone was iodometrically determined, and the capacity of the discharge was measured by means of a calorimeter and an capacity of the static current-voltage characteristics, the discharge oscilloscope. The static current-voltage characteristics, the discharge burning voltages of the discharge at different rates of oxygen passage burning voltages of the discharge at different rates of oxygen passage of the discharge in Tables 1-3. It was found that the burning voltage of the disare given in Tables 1-3. It was found that increasing concentration of charge in the ozonizer rises linearly with increasing concentration of the offective capacity of the barriers of the ozonier (calculated ozone. The effective capacity of the barriers of the ozonier (calculated from the dynamic charge-voltage characteristics) depends on the terminal Card 1/2

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