

CIA-RDP86-00513R001858710010-0

12/17 March

L 15797-66 ACC NR: AP6002234 conducted in the following directions: a) the classical applications of a thermocell as a converter of heat into electric energy; b) the practical use of the electrode reaction in a thermocell to the electrolytic purification of metals; and c) the application of the electrochemical phenomena of a thermocell to the evaluation of the thermoelectrolytic corrosion in chemical reactors (nonuniformly heated) of various types. This paper was presented by B. Stefanowski 6 July 65. Orig. art. has: 5 figures and 14 formulas. [08] [08] SUB CODE: 10/SUBM DATE: none/ OTH REF: 005 / ATD PRESS: 420(Card 2 5.1254456

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SARUKHA	ANYAN, V.O.; DZHANDZHUGAZYAN, A.G.; MURADYAN, K.M.; VARTANYAN, A.	
	Potentiated anesthersia. Trudy Erev.med.inst. no.11:341-346 '60. (MIRA 15:11)	
	<pre>1. Iz kafedry khirurgicheskogo sanitarno-gigiyenicheskogo fakul'teta (zav. kafedroy - prof. V.O.Sarukhanyan) Yerevanskogo meditsinskogo instituta.</pre>	
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US3R/Microbiology. Homoglobinophillic Bacteria F-5 Microbus of Tularenia Abs Jour : Ref Zhur - Biol., No 14, 1958, No 62436 : Vartanyan A., Yosadzhanyan M. Author Inst : -Title : On Sheep Sick with Tularemia and on the Resistance of the Microbes Contained in their Meat. Orig Pub : Arokhehapautyun, 1956, No 2, 23-25 Abstract : No abstract : 1/1 Card NAMES OF TAXABLE PARTY. - sadawarayar

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	VARTANYAN, A.A.			
	Rapid methods of hydrau 51-72 '57.	ilic tunnel co (Tunneling)	nstruction. Trudy KBI	no.29: (MIRA 13:3)
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VARTANYAN, A A AN, A.A., Cand Toch Sci-(diss) TERTAINTY Regnance "Spoed methods of construction of hydrogeneing tunnels upon hydraulle cutting through rocky grounds." Mos, 1958. 24 pp (Min of Higher Education USSR. Mos Order of Lenin Power Engineering Inst. Chair the physical operation for Building of Reconction of Hydron the Constructions)" 100 copies (KL,25-58, 112) -78-Billic

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VARTANYAN, A. B., RASSADTH, L. H.
Looms Application of a reserve shuttle on automatic looms., Tekst. prom., No. 1, 1951.
9. Monthly List of Russian Accessions, Library of Congress, March 1952 1953, Uncl.

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858710010-0 , BOGDANOVA, A. V.; VARTANYAN, A. B.; PROKOP'YEVA, L. N. 1. USSR (600) 2. 4. Cotton Spinning 7. Using cotton waste in spinning. Tekst, prom 12 no. 10, 1952 9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

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MARTANYAN, A.B., kandidat tekhnicheskikh nauk. Determining the production capacity of enterprises. Tekst.prom. 17 no.li61-62 Ja '57. (MLRA 10:2) (Textile industry) (Textile mchinery)

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VARTANYAN, A.B.; PUSHKINA, I.P.; MAGNITSKIY, A.A., retsensent; OKLOVA, L.A., red.; KNAKNIN, M.T., tekhn.red.

> [Organizing the labor of workers operating sliver lapping machines in cotton spinning] Organizatsiia truda rabotnits, obsluzhivaiushchikh lentosoedinitel'nye mashiny khlopkopriadil'nogo proizvodstva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 26 p. (MIRA 12:6) (Cotton spinning)

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VARTANYAN, A.B., kand.tekhn.nauk

Motion pictures at the service of the scientific organization of work. Tekst.prom. 25 no.11:4-6 N 165. (MIRA 18:12)

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AUTHORS:	SOV/136-58-5-6/22 Averchenkov, D.O., Vartanyan, A.M., Kopchenko, D.S.
TITIE:	Introduction of Electrothermy at the Ust'-Kamenogesk Lead- zinc Combine (Vnedreniye elektrotermii na Ust'-Kamenogorskom svintsovo-tsinkovom kombirate)
PERIODICA	svintsovo-tsinkovom komsil 1007 L: Tsvetnyye Metally, 1958, Nr 5, pp 35 - 38 (USSR)
ABSTRACT:	The authors discuss a recent article by V.N. Kostin in Tsvetnyye Metally, 1958, Nr 1, in which the greater appli- cation of electrothermic methods in lead and zinc production is mentioned. They list some disadvantages of shaft- furnace smelting and state the importance of developing new methods for Soviet lead-smelting works, a favourable factor being the increasing availability of cheap hydro- electric power. Electric heating of settlers was substi- tuted for oil heating at the Ust'-Kamenogorsk Lead-zinc Combine in 1953 without altering dimensions (length, width and depth - 7 100, 2 960 and 660 mm, respectively), but experience and joint work by works and VNIItsvetmet personnel led to reconstruction with the volume reduced from 13 to 8 m ³ . After listing conditions for successful operation of such stationary settlers, the authors describe
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SOV/136-58-5-6/22 Introduction of Electrothermy at the Ust'-Kamenogersk Lead-zinc Combine

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the smelting of silver-containing dross in an electric furnace under an artificial slag layer (30% Ma₂O, 30% CaO, 40% SiO₂): tabulated compositions show that this method

gives a higher recovery of noble metals into the silverlead than with retort distillation. This work was also carried out by the same organisations and the collaborator is continuing to improve the method and to convert the 150-ton refining kettles to electric heating. The authors outline the present electric kettle-heating method with nichrome strip resistance heaters and urge the development of induction heating for higher efficiency. They agree with Kostin on the need for special design staffs in existing institutes with proper equipment for the rapid development of electrothermic methods. They do not agree with his suggested scheme for converting the Ust'-Kamenogorsk Lead Works to electric smelting as data are lacking; they would prefer the Giprotsvetmet to design a new, separate works. They urge the rapid completion

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SOV/136-59-5-9/21 Vartanyan, A.M., and Kopuhanko, D.S. AUTHORS: TITLE: The Experimental Use of Oxygen in Lead Smelting Shaft Furnaces (Opyt primeneniya kisloroda pri shakhtnoy svintsovoy plavke) PERIODICAL: Tsvetnyye metally, 1959, Nr 5, pp 46-49 (USSR) ABSTRACT: The results of using oxygen-enriched air in shaft furnaces on the Ust-Kamenogorsk Lead-Zinc Kombinat are given. Fig 1 shows the high-power oxygen plant. Oxygen is fed from a gas holder to the air-blast plant, under pressure. Individual pipes with automatically controlled valves, which can regulate the oxygen content, feed the enriched air to the shart furnaces. Fig 2 shows the influence of oxygen content on production using a constant blast volume - 34 m3/m2, An increase in 0 content to 26.5% leads to a 27% increase in production. Fig 3 shows the influence of 0 content on the volume of blast required to maintain constant production. Increase in 0 content to 26.5% gives a decrease in enriched air volume of 34% with a corresponding decrease in volume of exhaust gases. The mean Card 1/3 temperature of the "goose nack" on the air blast in

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SOV/136-59-5-9/21 The Experimental Use of Oxygen in Lead Smelting Chaft Furnaces April 1958 was 286 °C (reaching 600-600° on individual days). Using an enriched air mixture the temperature (in November 1958) was 120-130° and for long periods was only 60-80°. The use of enriched air also results in a decrease in dust content of exhaust gases from 2-2.5 to 1.5-1.7 g/hm3. There is a decrease in coke consumption of 13.4% due to an increase in officiency. In the first four months of 1958 the Pb content of the slag was 2.05%. After using enriched air, the Pb content fell to 1.21% (in November 1958). Because of this decrease and the decrease in dust content of exhaust gases, there was an increase in production of crude lead of 1%. Thus, considering the increase in production, the decrease in coke consumption and the decrease in the Pb lost in the slag and the gases, the economic effect is over 5 million roubles per year. The better working conditions also

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5/136/60/000/02/002/022 E193/E483 AUTHOR : Vartanyan, A.M., Director TITLE : First Step in the Great 7-Year Period PERIODICAL: Tsvetnyye metally, 1960, Nr 2, pp 7-9 (USSR) ABSTRACT: The author of the present article discusses the progress made in 1955 at the Ust'-Kamenogorsk Combine towards the fulfilment of the latest 7-year plan. In spite of the fact that a shorter (6 to 7 h) working day was introduced at the plans of the Combine on the 1st March, 1959, the plan for the first year of the 7-year period has been over-fulfilled by thousands of tons of metal produced (or in monetary terms, by 26 million roubles) and the targets set for reducing the production costs, improving the quality and the quantity of produced metals, reducing the consumption of auxiliary raw materials and electrical energy and increasing the productivity of labour, have all been reached. This success is attributable, in the first place, to the devoted and disciplined effort of all the employees of the Combine who, for the second year running, retained in their hands the Red Trophy of the Council of Ministers of the Card 1/4 (Kazakhstan) Republic. Owing to high degree of 離離。發展的習慣的是因素的意思。

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First Step in the Great 7-Year Period

mechanization, introduction of new production methods and rationalization of work, the productivity per man at the Ust'Kamenogorsk Combine is more than twice higher than at any similar industrial undertaking in the Soviet Union. In 1959, for the first time in the history of lead metallurgy, oxygen-enriched blast was used in the blast furnace smelting of lead at the Combine; as a result, the quantity of charge smelted per 1 m^2 of the furnace cross-section area (at the tuyeres level) was increased by 20 to 25% and the consumption of coke reduced by 15 to 20%; the newly introduced smelting schedule brought about a 10 to 15% increase in the degree of recovery of lead, equivalent to 1 to 1.5% increase in the quantity produced; this measure alone gave an annual saving of 10 million roubles. The second successful innovation was the construction of a plan for treating slags produced during smelting of lead; it has been found that slags, accumulated at a few only plants in Kazakhstan, contain more than 800000 t of non-ferrous metals, in concentration which in some cases (particularly in the case of zinc) exceeds the

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First Step in the Great 7-Year Period

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concentration of this metal in the as-mined ore; value of zinc and lead extracted from these slags in the 1959 exceeded 7.5 million roubles. Other processes, developed and successfully applied in production, include; electrothermal treatment of silver drosses; new method of purification of zinc solutions; aero-separation of clinker before leaching; sulphatizing treatment of lead dusts etc. More than 1000 suggestions have been received; of these, 600 were successful and gave an annual saving of 6 million roubles, Several processes, including melting and casting of electrolytic zinc, have been completely mechanized and the basic technical parameters of the production processes are automatically controlled at 2500 points; full automation is being introduced in several shops (dust collection, sulphuric acid and roasting shops). Introduction of new processes and new complex equipment requires continuous training of the personnel; more than 2500 operatives and technicians attend evening classes organized by various educational establishments or take correspondence courses.

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First Step in the Great 7-Year Period

At a recent general meeting of the employees of the Combine, the following targets were set for the year 1960: to exceed the output of zinc and lead planned for the third year of the 7-year period; to exceed the output of sulphuric acid planned for 1963; to reach the output of cadmium planned for 1965; to over-fulfil the overall plan by 15 million roubles by lowering the cost of production and introducing new production methods.

ASSOCIATION:Ust'-Kamenogorskogo svintsovo-tsinkovogo kombinata (Ust'Kamenogorsk Lead-Zinc Combine)

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AUTHORS: Tsyb, P. P., Getskin, L. S., <u>Vartanyan, A. M</u>., Fel'dman, V. G., Anosova, T. V., Akylbekov, A. A., Levina, A. A., Chepik, M. N.

TITLE: Extraction of indium from dusts of lead plants

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1961, 329, abstract 17K150 (Sb. nauch. tr. Vses. r.-i. gornometallurg. in-t tsvetn. met., no. 6, 1960, 377-388)

TEXT: Indium-containing dusts of lead plants are granulated with strong H_2SO_4 , and the resulting granules are thermally treated in a pseudoliquid

layer in a furnace at $300-350^{\circ}$ C in order to sublimate most of the As. The hydrates, including that of indium, are precipitated by adding ZnO to the sulfuric acid solution. Subsequently, As is washed out with 10% NaOH, and the residue is dissolved in H₂SO₄ in order to remove Pb. Cu is

removed from the solution by cementation with cast-iron filings, after which In is precipitated with NaOH solution. The resulting concentrate, Card 1/2

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Extraction of indium from	29424 S/081/61/000/017/073/166 B101/B102
which contains 2-8% of In, is aga	in dissolved in $H_2SO_4^{}$, As and Sb are
cemented with cast-iron filings, tion, and the precipitate is diss	In is again precipitated with NaOH soluolved in HCl. From this solution, In is ting sponge is treated with dilute H_2SO_4
from which indium is precipitated	by neutralizing with NH3. The resulting
plates. Thus, a raw product with purified by dissolution in Hg and 60% of Tn is thus extracted from	HCl, and indium is again cemented on Al 97-98% of In is obtained, which is by electrolysis of the amalgam. About the initial dust. Cu, Te, Tl, Cd, and it is processed. [Abstracter's note:
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VARTANYAN, A.M.

In the V.I.Lenin Lead and Zinc Combine in Ust'-Kamenogorsk. TSvet.met. 34 no.10:10-12 0 '61. (MIRA 14:10)

1. Direktor Ust'-Kamenogorskogo svintsovo-tsinkovogo kombinata imeni V.I.Lenina.

(Ust:-Kamenogorsk---Nonferrous metal industries)

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V.I.Lenin Lead and Zinc Combine in Ust' Kamenogorsk on the 45th anniversary of the Great October Socialist Revolution. TSvet. met. 35 no.ll:10-14 N '62. (MIRA 15:11) (Ust'-Kamenogorsk--Nonferrous metal industries)

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I. 09354-67	
ACC NR, ANO23203	SOURCE CODE: UR/0020/66/168/006/1287/1290
AUTHOR: Vartanyan, A. T. ORG: none	41
TITLE: Photosemiconducting properties of bi	lirubin
SOURCE: AN SSSR. Doklady, v. 168, no. 6, 19 TOPIC TAGS: photoconductivity, semiconducti pound, oxygen	66, 1287-1290 ng film, organic semiconductor, vinyl com-
ABSTRACT: Although bilirubin is one of the p photosemiconducting properties have not been was placed between two platinum electrodes de quartz test tube provided with a ground seal tion (10^{-5} mm Hg) . The layers were obtained chloroform solution (thin layers, several tim layers, several hundred millimicrons). The c different degrees of vacuum and in oxygen at of the conductivity it is deduced that the ox of vinyl groups of the bilirubin molecule. E absorption band causes the resistance of the eral orders of magnitude. The photocurrent h Dhm's law in fields up to 10^4 v/cm . The depe	most important compounds in medicine, its investigated before. A bilirubin layer sposited 0.5 mm apart on the surface of a for connection to a high vacuum installa- either by depositing the pigment from a mes ten millimicrons) or by rubbing (thick conductivity of the layer was measured in different pressures. From the variation ygen becomes localized on double bonds posure to monochromatic light in the layer in the vacuum to decrease by any
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24398 VARTANYAN, A. V. Dva sluchaya bolezni Keniga.-V ogl: A. N. Vartanyan. Sbornik nauch. Trudov (Verevansk. nauch.-issled. IN-T optopedii i vosstanovit. Khirurgii), 1, 1949, S. 128-30.

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VARTANYAN, A.V., kapitan moditsinskoy sluzhby Treating concealed diaphysial femur fractures by interesseous fization. Yoen.-med.shur. no.7:86 Jl '56. (MLRA 9:11) (FEMUR-FRACTURE)

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Modern design of electric belt conveyor drums. Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh. no. 49 pt. 2: 137-145 ' 64 (MIRA 19:1)

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EWT(1)/EWT(m)/EPF(n)-2/T/EMP(t)/EMP(k)/ETC(m)-6L 22673-66 P(t)/EMP(k)/ETC(m)-6 JD SOURCE CODE: UR/0377/65/000/004/0005/0010 ACC NR: AP6006191 Vartanyan, A. V.; Shermazanyan, Ya. T. (Candidate of technical sciences) AUTHORS: ORG: Armenian Basic Laboratory, All-Union Scientific Research Institute for Current Sources (Armyanskaya bazovaya laboratoriya, Vsesoyuznogo n.-i. instituta 46 istochnikov toka) 21, 14, 55 Investigation of heat flow control systems in constant-power solar furnaces TITLE: SOURCE: Geliotekhnika, no. 4, 1965, 5-10 TOPIC TAGS: solar furnace, temperature distribution, temperature stabilization, solar radiation intensity, power optimization ABSTRACT: The governing parameters behind a power-regulation method for a constantstrength solar furnace are discussed. The power regulation is defined by the equation $P_{reg} = A \cdot P_{max}$ = const, where $A = c \cdot k = const$. The technique consists of defining c as a function of k. To this end, it is assumed that the sun can be represented as a point-radiation source, the parabolic concentrator has an idealized geometry and receives parallel beams of radiation with constant density. Three types of regulators are analyzed: a screen type regulator placed perpendicularly to Card 1/3

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VARTANYAN, G.

347:全部推动

Universal unit for automatic regulation of humidity and of the concentration of acid and salt medium. Prom.Arm. 4 no.2:33-35 F *61. (MIRA 14:6)

(Electronic instruments)



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VARTANYAN, G.A.; MERKULOV, V.L.; MENITSKIY, D.N.

Professor Norbert Wiener's (U.S.A.) report at the Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R., July 22, 1960. Fiziol. zhur. 46 no.12:1518-1519 D '60. (MIRA 14:1)

(ELECTROENCEPHALOGRAPHY)

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VARTANYAN, G.A.; MENITSKIY, D.N.

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Method for the investigation of conditioned motor-defense reflexes in fish with recording of conditioned motor reactions. Zhur.vys. nerv.deiat. 10 no.6:918-921 N-D '60. (MIRA 14:1)

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1. Otdel sravnitel'noy fiziologii i patologii Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR. (CÓNDITIONED RESPONSE)

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1. Institut eksperimental'noy meditsiny ANN SSSR, Leningrad. (ELECTROPHYSIOLOGY-EQUIPMENT AND SUPPLIES)

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VARTANYAN, G.A., VASILEVSKIY, N.N.

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1. From the Laboratory of Comparative Physiology and the Laboratory of Cybernetics, Institute of Experimental Medicine, Leningrad.

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VARTANYAN, G.A.; VASILEVSKIY, N.N.

Evaluation of the functional properties and reactions of individual neurons of the central nervous system. Fiziol. zhur. 50 no.2:153-160 F 164.

1. Otdel sravnitel'noy fiziologii i patologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

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VARTANYAN, G.A.
Stable changes of membrane potentials of the spinal metr neurons during afferent high-frequency stimulation. Fiziol. zhur. 50 no.3: (MIRA 18:1) 272-279 Mr '64.
1. Otdel sravnitel'noy fiziologii i patologii Instituta eksperimental'noy meditsiny ANN SSSR, Leningrad.

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AUTHOR: Vasilevskiy	N. N.; Klimova-Cherkasova, V. I.; Vartanyan, G. A. B
	xperimental Medicine, AMN SSSR, Leningrad (Institut eksperimen-
-	nd functional interrelationships between excitation and inhibition
	oskiy zhurnal SSSR, v. 51, no. 4, 1965, 424-430
TOPIC TAGS: central	nervous system, cat, neuron, neurophysiology
cord were stimulate At current frequenc suppressed entirely observed. In anoth response of a thin medial divisions of grey matter around that within the mot	iments with cats, individual motor neurons of the spinal d electrically by applying the microelectrode technique. ies ≩ 300 cycles excitation postsynaptic potentials were and only inhibition postsynaptic potentials were er series of experiments, also conducted on cats, the bundle of n. vagi fibers upon bipolar stimulation of the brain stem (medial nuclei of the thalamus, central the aqueduct of sylvius) was studied. It was established or nucleus of the vagus nerve motor neurons differed in ctional characteristics as far as stimulation and inhi- s synchronous with inhalation (inspiration) and exhalation
bition of discharge	

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USSRI/Engineering - Hydraulics, Water Apr 52 "Device for Remote Control of Liquid Level," "Device for Remote Control of Liquid Level," Gidrotekh i Melio" No 4, pp 74-76 "Gidrotekh i Melio" No 4, pp 74-76 bescribes device for remote control of level of water of other liquid. It comprises 2 stainless electrodes installed in reservoir at certain sugle to each other and connected into one of arms of measuring bridge; thickness of liquid between electrodes represents variable resistance of this arm. Measuring of sp resistance of vater 212751	is realized by controlling plate attached to one electrode with aid of insulator. To eliminate polarization phenomenon, bridge is fed from high- frequency vacuum-tube oscillator, action of which is based on using RC quadripole with electron tube. Accuracy of device readings of 1 mm of liquid level. Awarded Certificate of Authorship No 81312.	· · · D · (HATHATA)
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VARTANYAN, G.V.

Hydrodynamics

Methods based on principles of electrical and radio engineering for measuring the velocity of water. Gidr.i. mel. 4 No. 5, 1952.

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VARTANYAN, G.V.

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Determination of the leveling moment of water-race levels for remote automatic control of sluice gates. Gidr.stroi. 22 no.10:40-42 0 '53. (MLRA 6:10) (Sluice-gates) (Water meters)

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VARTANYAN, I.A.; MARUSEVA, A.M.

网络基本律师家新学校教育学校的基本保持法院研究研究于 医小学学校 经

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Electrical responses of the cochlea in rats under the effect of short sound signals (clicks). Fiziol. zhur. 51 no.9:1037-1042 S '65. (MIRA 18:9)

1. Laboratoriya fiziologil slukhovogo analisatora Instituta fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.

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VAETANYAN, I.A.

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Quantitative characteristics of temporary summation in colliculus posterior and lemniscus lateralis of the brain in rats. Zhur. vys. nerv. deiat. 16 nc. 1:103-111 Ja-F '66 (!!IRA 19:2)

1. Iaboratoriya fiziologii slukhovogo analizatora Instituta fiziologii imeni I.P. Pavlova AN SSSR, Leningrad. Submitted January 28, 1965.

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AUTHOR: <u>Vartenyan. L.A.:</u> Maruseva, A. M. ORG: Laboratory of the Physiology of the Auditory Analysor, <u>Institute of Physiology</u> im. Pavlov, AN SSSR, Leningrad(Laboratoriya fiziolgii slukhorogo analizatora Institute fiziologii AN SSSR) TITE: Electrical responses of the rat cochlea to the action of brief acoustic clicks SOURCE: Fiziologicheskiy zhurnal SSSR, v. 51, no. 9, 1965, 1037-1042 TOPIC TAGS: rat, man, cat, bioelectric phenomenon, audition ABSTRACT: The range of sounds perceived by rats comprises frequencies higher than those to which the auditory apparatus of human beings and of such laboratory animals as cats and dogs still responds. Hitherto the functional characteristics of the auditory system of rats were studied mainly on the basis of behavior reactions. Under the circumstances it was of interest to measure electric audi- tory reactions of rats and compare them with those of animals that respond to sound stimuli of lower frequencies. The technique of the experiments was the same as in those carried out on cats. As stimuli clicks with a duration of 0.2 msec were used, which were emitted by a loud-speaker with a frequency range of 200-7,000 cycles. The latent periods of the reactions in rats were 50% greater than in cats, while the amplitude was lower by a factor of 10. For the responses of the cochlea of rests, a high amplitude of the second nerve component N2 was characteristic; its value was often close to that of the first nerve_component N ₁ . The time of restoration of the amplitude of the first nerve_component N ₁ . The time of scund stimuli 40-45 db above the threshold, was considerably greater than for cats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of rats can be described as inert. UDC; Ced 1/1 SUE CODE: 06/ SUEH DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612,822,3:612,862	and the second s	29017-00 C NRI AP6018856	SOURCE CODE: UR/0239/65/051/009/1037/1042
im. Pavlov, AN SSSR, Leningrad(Laboratoriya fiziolgii slukhorogo analizatora Institute fiziologii AN SSSR) TITLE: Electrical responses of the rat cochlea to the action of brief acoustic clicks SOURCE: Fiziologicheskiy zhurnal SSSR, v. 51, no. 9, 1965, 1037-1042 TOPIC TAGS: rat, man, cat, bioelectric phenomenon, audition ABSTRACT; The range of sounds perceived by rats comprises frequencies higher than those to which the auditory apparatus of human beings and of such laboratory animals as cats and dogs still responds. Hitherto the functional characteristics of the auditory system of rats were studied mainly on the basis of behavior reactions. Under the circumstances it was of interest to measure electric audi- tory reactions of rats and compare them with those of animals that respond to sound stimuli of lower frequencies. The technique of the experiments was the same as in those carried out on cats. As stimuli clicks with a duration of 0.2 msec were used, which were emitted by a loud-speaker with a frequency range of 200-7,000 cycles. The latent periods of the reactions in rats were 50% greater than in cats, while the amplitude was lower by a factor of 10. For the responses of the cochlea of restoration of the amplitude of the second nerve component N ₂ was characteristicj its value was often close to that of the first nerve component N ₁ . The time of restoration of the amplitude of the the threshold, was considerably greater than for cats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of, rats can be described as inert. UDG Cend 1/1 SUB CODE: 06/ SUBM DATE: 10Apr64/ ORUG REF: 002/ OTH REF: 007/612.822.3:612.852			
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200-7,000 cycles. The latent periods of the reactions in rats were 50% greater than in cats, while the amplitude was lower by a factor of 10. For the responses of the cochlea of rats, a high amplitude of the second nerve component N ₂ was characteristic; its value was often close to that of the first nerve component N ₁ . The time of restoration of the amplitude of the rat cochlea response, measured on application of sound stimuli 40-45 db above the threshold, was considerably greater than for cats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of rats can be described as inert. UDC: Card 1/1 SUE CODE: 06/ SUBM DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.3+612.858	8	ane as in those carried out (on cats. As stimuli clicks with a duration of 0.2
than in cats, while the amplitude was lower by a factor of 10. For the responses of the cochlea of rats, a high amplitude of the second nerve component N ₂ was characteristic; its value was often close to that of the first nerve component N ₁ . The time of restoration of the amplitude of the rat cochlea response, measured on application of sound stimuli 40-45 db above the threshold, was considerably greater than for cats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of rats can be described as inert. Orig. art. has 3 figures and 1 table. [JPS] Cord 1/1 SUE CODE: 06/ SUBM DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.3+612.858	2	sec were used, which were em	itted by a loud-speaker with a frequency range of
of the cochlea of rats, a high amplitude of the second nerve component N ₂ was characteristic its value was often close to that of the first nerve component N ₁ . The time of restoration of the amplitude of the rat cochlea response, measured on application of sound stimuli 40-45 db above the threshold, was considerably greater than for cats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of rats can be described as inert. Orig. art. has 3 figures and 1 table. [JPS] Cord 1/1 SUE CODE: 06/ SUBM DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.3+612.858	ť	han in cats. while the ampli	tude was lower by a factor of 10. For the responses
characteristic; its value was often close to that of the first nerve component N1. The time of restoration of the amplitude of the rat cochlea response, measured on application of sound stimuli 40-45 db above the threshold, was considerably greater than for dats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of rats can be described as inert. Orig. art. has 3 figures and 1 table. / PRS/ UDC: Cord 1/1 SUE CODE: 06/ SUBM DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.3+612.858	; 0;	f the cochlea of rats. a high	h amplitude of the second nerve component No was
N1. The time of restoration of the amplitude of the rat cochlea response, measured on application of sound stimuli 40-45 db above the threshold, was considerably greater than for cats, i.e., by 60-74 msec. On the basis of the results obtained, the auditory system of rats can be described as inert. Orig. art. has 3 figures and 1 table. (JPRS) UDC: Cord 1/1 SUE CODE: 06/ SUBH DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.3+612.858		haractoristic; its value was	often close to that of the first nerve component
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Orig. art. has 3' figures and 1 table. /JPRS/ UDC: Cord 1/1 SUE CODE: 06/ SUBH DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.34612.858		considerably greater they' for	and stimuli 40-45 db above the threshold, was
Cord 1/1 SUG CODE: 06/ SUBH DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.34612.858	· t	he results obtained, the and	' Cats, 1.6, by OU-74 MSGC. Un the Dasis OI
Cord 1/1 SUE CODE: 06/ SUBH DATE: 10Apr64/ ORIG REF: 002/ OTH REF: 007/612.822.3+612.858	'-``C	Fig. art. has 3'figures and	1 table. /JPRS/
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	L 31187-66
	ACC NR: AP6022564 SOURCE CODE: UR/0219/66/061/002/0003/0006
	AUTHOR: Vartanyan, I. A.; Lebedeva, Z. P.; Maruseva, A. M.
	ORG: Laboratory of Auditory Analysor Physiology, Institute of Physiology im. I. P. Pavlov, AN SSSR, Leningrad (Laboratoriya fiziologii slukhovogo analizatora Instituta fiziologii AN SSSR)
:	TITLE: Electrical reactions of the inferior colliculus of rats to brief sounds (clicks)
	SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 61, no. 2, 1966, 3-6
	TOPIC TAGS: electrophysiology, rat, acoustic biologic effect, audition
	ABSTRACT: The electrical reactions of the inforior colliculus of rats are similar to those of cats. Typically, they start with a rapid positivo wave followed by a slow negative deviation. In some cases two positivo waves with a subsequent negative deviation were recorded. The amplitude of the reactions in the 30 anesthetized white rats studied ranged from 70_400 microvolts. The maximum amplitude was noted in the experiments in which the electrode was in the center of the nucleus. The thresholds of the reactions were somewhat higher than the audibility thresholds of man under the same conditions.
	The average threshold in the rats with normal middle ear was somewhat higher than that in cats (the difference was no more than 5 db). The average length of the latent period of the reaction to the clicks was 3.1
	MILLISUCONDE WITH THE INTERSITY OF the stimulue ht to de shows the thread of the
	When the intensity of the signal was changed 5-80 db above the threshold, Card 1/2 UDC: 612.826.5.014.423.014.45
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的是他们是不能是我们的问题的是最 ALL THE PLATER STREET STRE L 31167-66 ACC NR: AP6022564 the latent period decreased from 5 to 2.8 milliseconds. The duration of the positive wave of the response had different values -- from 2-4 milliseconds. The amplitude of responses caused by a second signal presented at intervals of 3-100 milliseconds from the first was 50% of the amplitude of the first response at a 3-4.6 milliseconds interval. Complete restoration of the amplitude of both responses usually required 60-70 milliseconds. This paper was presented by Academician V. N. Chernigovskiy on 1 August 1964. Orig. art. has: 3 figures. [JPRS] SUB CODE: 06 / SUBM DATE: OLAug64 / ORIG REF: 006 / OTH REF: 013 Card 2/2 CC

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CHUKHNO,---(Continued) Card 2. (for Rozenman). 14. Armyanakiy sel'akoki-ozyaystvenny; institut (for Vartanyan). 15. Permskiy polltekinicheskiy institut (for Novikov). 16. Chlen-korrespondent Akademi nauk SSSR, glavnyy redaktor zhurnala "Voprosy ekonomiki" (for Gatovskiy). (Economics---Study and teaching)

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	SOV/137-58-7-14034
Translatior	from: Referativnyy zhurnal, Metallurgiya, 1958, Nr7, p7 (USSR)
AUTHOR:	Vartanyan, K. T.
TITLE: -	Significance of Direct Selection for Production of High-quality Concentrates and the Flotation of Ores Difficult to Dress (Znacheniye pryamoy selektsii dlya polucheniya vysokosort- nykh kontsentratov i flotatsii trudnoobogatimykh rud)
PERIODIC.	AL: V sb.: Obogashcheniye rud tsvetnykh metallov. Moscow, Metallurgizdat, 1956, pp 67-73
ABSTRACT	Direct selective flotation of Mo-Cu ores is run with depression of the Cu minerals by Na ₂ S at an initial concentration of $1-3$ g / liter of pulp. The flowsheet suggested makes it possible to at- tain both a high quality of concentrate and a high rate of recover of the metal. A comparative table of process indices is adduce The new method is termed "flotation conditioning of flotation feed" or "multiflow stepwise flotation". The different behavior of Na ₂ S in metered and in bulk proportioning is noted.
	1. Copper-molybdenum oresProcessingK. A.2. Copper-molybdenum oresFlotationK. A.

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Translation	15-57-5-6625 from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
. 11 a	p 133 (0000)
• AUTHORS :	Vartanyan, K. T., Lutsenko, V. I.
TITLE:	The Concentration of Feldspar-Quartz Sands and Their Industrial Application (Obogashcheniye polevoshpatovo- kvartsevykh peskov i ikh promyshlennoye ispol'zovaniye)
PERIODICAL:	Soobshch, AN GruzSSR, 1956, Vol 17, Nr 5, pp 409-410.
ABSTRACT:	The sands of GeorgTa (the Shukrutskoye, Sachkherskoye, Suramskoye, and other mestorozhdenyye (deposits) are of the feldspar-quartz type. Factory tests have shown that the proportions of 89 percent SiO_2 , 7 percent Al ₂ O ₃ , and O.2 percent Fe ₂ O ₃ are entirely suitable for foundry sands in making cast iron and fine steel casting and also for the complex feldspar-quartz base to produce fine ceramics. Improvement in the mineral composition of the sands, i.e., concentration of quartz in the sands, may be accomplished by improving the grain content through elimination of the upper (grain
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	The Concentration of Feldspar-Quartz Sands (Cont.)
	<pre>size from 1.0 to 0.85 mm) and the lower (grain size less than 0.21 to 0.15 mm) classes of grains. These sizes contain the principal part of the harmful impurities: feldspar, clay, mica, iron hydrox- ides, etc. The middle size of sand (grain size from about 1.0 mm to 0.85 mm down to 0.21 mm to 0.15 mm and containing 70 to 80 per- cent SiO₂) represents the part of the raw material with the greatest quartz concentration and is called by the author the</pre>
	productive class of feldspar-quartz sands. Card 2/2 V. P. Ye.

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CIA-RDP86-00513R001858710010-0

S/137/62/000/002/029/144 A006/A101 AUTHORS: Vartanyan, K. T., Tevonyan, M. S. 1 TITLE: Investigating a new depressor for selective flotation of molybdenumcopper ores PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 8, abstract 2055 ("Yezhegodnik Kavkazsk. in-ta mineral'n syr'ya za 1957 g", Moscow, Gosgeoltekhizdat, 1959, 20) TEXT ; The authors investigated a new depressor for flotating Agarak-type Cu-Mo-ores, containing carbonaceous substances. When investigating this depressor, ores of the Agarak deposit were employed which contained in %. Mo 0.05, Cu 0.3, Fe about 2. The ore contains 0.6% carbonaceous substances. The new depressor which can be used for depressing both carbonaceous substances and Cu minerals, will, probably, ensure the production of conditional Mo-concentrate. A. Shmeleva [Abstracter's note: Complete translation] Card 1/1

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s/137/62/000/002/030/1 A006/A101 Vartanyan, K. T., Kapanadze, M. G. AUTHORS : Investigating the concentration ability of tungsten-molybdenum ores TITLE: of the Baynazar deposit in the Karaganda Oblast' of Kazakh SSR Referativnyy shurnal, Metallurgiya, no. 2, 1962, 8, abstract 2057 PERIODICAL: ("Yezhegodnik Kavkazsk. in-ta mineral'n. syr'ya za 1957 g." Moscow, Gosgeoltekhizdat, 1959, 21-22) Investigations were made with ore, containing 0.04% Mo, 0.11% WO3 TEXT: and 0.05% Cu. In connection with the high flotability of molybdenate and the presence of fine-disseminated tungstenite in the ore, molybdenum flotation with tungstenite extraction from the tails was performed by the gravitation and flotation method. To obtain Mo-concentrate, conditional as to the Cu content, selective flotation with Cu-mineral and pyrite depression is necessary. Extraction of Mo into a final grade I concentrate without considering a possible additional extraction from industrial products, attained 50%. The method of concentration on a table of flotation tails, yielded tungsten concentrate where the WO_3 content Card 1/2STREET CONTRACTOR STREET, STREET

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2°F 17 LEGO ANTINO MAN s/137/62/000/002/028/144 A006/A101 Vartanyan, K. T., Tevonyan, M. S. AUTHORS: Investigating the concentration capacity of low-molybdenum ore of TITLE: the Dzhindarin deposit (Armenian SSR) Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 8, abstract 2054 PERIODICAL: ("Yezhegodnik Kavkazsk. in-ta mineral'n. syr'ya za 1957 g.", Moscow, Gosgeoltekhizdat, 1959, 22-23) The authors investigated poor Cu-Mo ore containing 0.5% Cu and TEXT: 0.022% Mo. According to the scheme of direct selective flotation a conditional Mo concentrate was obtained, containing 47.88% Mo, with extraction of 53% in an open cycle. The Cu-content in the Mo-concentrate was 0.56%. There is a possibility of obtaining a Mo-product with a considerably higher extraction percentage. Conditional Cu-concentrate is obtained with 15% Cu content at 65% extraction. To activate Cu minerals it is proposed to replace H2SOM by new activators - HC1, HN03, H202 and K2Cr207. A. Shmeleva [Abstracter's note: Complete translation] Card 1/13. 6R

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	S/137/61/000/012/030/1 49 A 006/ A 101
AUTHORS:	Vartanyan, K.T., Shukakidze, N.D.
TITLE :	Developing a flotation-hydrometallurgical method of concentrating gold-containing antimonous-arsenous ores of the Zopkhito deposit (Verkhnyaya Racha)
PERIODICAL	Referativnyy zhurnal: Metallurgiya, no. 12, 1961, 11, abstract 12076 ("Yezhegodnik Kavkazsk. in-ta mineral'n. syr'ya za 1957 g", Moscow, Gosgeoltekhizdat, 1959, 23 - 24)
ed compounds on coarse fl orushed up t ton of ore. of tails of	According to results of chemical analysis the technological ore ined Sb 2.9% in the form of antimonite, and in the form of Sb oxidiz- about 10%, As 1.27%, Fe 6% and Au about 2.2 g/ton of ore. Tests otation of Sb were made during a short period of time, the ore was o 60% of class-0.074 mm, with lime admixtures of 0.5-1.0 kg per 1 Flotation of As-pyrite concentrate was carried out after crushing As-flotation up to 74.48% of class-0.074 mm. Under such conditions bourings Sb concentrates of first class were obtained with 61.1% Sb, ad class with 20.15% Sb; coarse As-pyrite concentrates with 6.5% As

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Developing a flotation-hydrometallurgical	S/137/61/000/012/030/149 A006/A101
content were also obtained at 67.72% extraction contains 21.52% As. Au concentration is observ its content attains 10.6 kg/t.	After scouring the concentrate ed in As-pyrite concentrate where
	L. Vorob'yeva
[Abstracter's note: Complete translation]	
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LAZAREV, N. V.; VARTANYAN, L. P. (Leningrad)

Possibility of facilitating the adaptation of the body to unusual climactic conditions. Gig. truda i prof. zab. no.1:21-24 ¹⁶². (MIRA 15:2)

1. Institut onkologii AMN SSSR.

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