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BEKHER, P.M., KOGANOVSKIY, A.M.; KRAYUKHINA, N.N.; MYSHKINA, N.P.; TARAN. P.N.; TROYANOV, I.A.; SHEYN, S.M. Adsorption removal of aromatic compounds from the waste waters of aniline dye production. Ukr. khim. zhur. 27 no.2:268-273 '61. (MIRA 14:3) 1. Institut obshchey i neorganicheskoy khimii AN USSR i Rubezhanskiy filial Nauchno-issledovatel'skogo instituta organicheskikh poluprodyktov i krasiteley. (Salvage(Waste, etc.)) Ë (Aromatic compounds)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756810004-9 SOV/112-59-5-9567 Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, P 158 (USSR) TITLE: Standardization of Computing Perforating Machines of the "SAM" Penza Factory PERIODICAL: V sb.: Mekhaniz. ucheta i vychisl. rabot. M.-L., Mashgiz, 1958, pp 199-202 ABSTRACT: In 1958-1959, the SAM Penza Factory is expected to start batch of standardized 80- and 45-column perforators and verifiers AUTHOR: Troyanoy, La A TRACT: In 1958-1959, the SAM Penza Factory is expected to start patch production of standardized 80- and 45-column perforators and verifiers designed on the same etructural base. As compared to previous Production of standardized 80- and 45-column perforators and verifiers designed on the same structural base. As compared to previous machines new ones have a number of operating advantages. The P80-5 perforator has designed on the same structural base. As compared to previous machines, new ones have a number of operating advantages. Increased its capacity to 12 one-punch solenoid for each position. which has increased its capacity to 12 new ones have a number of operating advantages. The P80-5 Perforator has increased its capacity to 12 and the solenoid for each position, which has increased its capacity to estrokes per sec. The K80 and K45-5 verifiers have a brush-type sensitive sensiti sensitive sensitive one-punch solenoid for each position, which has increased its capacity to 1 strokes per sec. The K80 and K45-5 verifiers have a brush-type sensing mechanism which is very stable. An alphabetic PA80 perforator and KA8 strokes per sec. The K80 and K45-5 verifiers have a brush-type sensing and KA80 mechanism which is very stable. An alphabetic PA80 perforator manufactur verifier are planned. S45-5 and S80-5 standardized sorters are manufactur mechanism which is very stable. An alphabetic PA80 perforator and KA80 verifier are planned. S45-5 and S80-5 standardized sorters are manufactured

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TALYING, MARIE

USSR/Cosmu Abs Jour	ochemistry - Geochemistry. Hydrochemistry. : Ref Zhur - Khimiya, No 9, 1957, 30390	D.
Author Inst Title	: Rimskaya-Korsakova, O.M., Troyanov, M.D.	
Orig Pub	: New Data Concerning Tungstenite : Zap. Vses. mineralog. o-va, 1956, 85, No 3, 277-285	
Abst	: Report of a new discovery of the mineral tungstenite (I), hitherto known to occur only in one deposit (Emma, State of Utab). The deposit	
	skarnic deposit Lyangar of western Uzbekistan, along contact zone of biotitic granites and a limestone- schist bed of Lower Paleozoic. Associated minerals: pyroxen, garnet, scheelite, pyrrhotine, chalcopyrite, sphalerite, molybdenite, pyrite and other. Chemical composition of I (in %): W 73.71, S 26.20, R_2O_3 0.50, SiO ₂ 0.10, total 100.51; by means of spectra were discovered in addition (in %):	
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USSR/Cosmochemistry - Geochemistry. Hydrochemistry. D. : Ref Zhur - Khimiya, No 9, 1957, 30390 Abs Jour Fe n . 10^{-1} , Mg, Ag, Ca, Cu n . 10^{-2} , Mn n . 10^{-3} , Mo n . 10^{-4} . Chemical analysis of incomplete pseudometamorphism of I in scheelite (in \$): W 26.08, WO3 total 99.70; present in smaller amounts are: M_E, Li, Al n . 10⁻¹, Si, Cu, Mn n . 10⁻², Ga n . 10⁻³, Mo, Be n . 10⁻⁴. On the basis of x-ray analysis parameters of unit cell were calculated: $a_0 = 3.151 \pm 0.004$, $c_0 = 12.359 \pm 0.009$ kX, $a_0: c_0 = 1: 3.922$. It is assumed that formation of \underline{I} occured during the hypothermal stage, together with other sulfide minerals -- under reducing conditions, with a sharp deficiency in oxygen. The process took place according to the formulation: $CaWO_4 + 2H_2S + CO > WS_2 + CaCO_3$ (secondary calcite)+ 211,0. Card 2/2 在 马兰林市场用户的公司中心。

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RIMSKAYA-KORSAKOVA, O.M.; TROYANOV, H.D.

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New data on tungstenite. Zap.Vses.min.Ob-va 85 no.3:277-285 '56. (MLRA 9:11)

1. Kafedra mineralogii Leningradskogo ordena Lenina Gosudarstvennogo universiteta imeni A.A.Zhdanova, Trest "Sredaztsvetmetrazvedka."

(Tungstenite)

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AUTHORS:	Zerkevich, B.A., Subbotin, V.I., Troyanov, M.F. Bottand (2)
TITLE:	The Critical Thermal Load in the Flow of Water Over a Tube in the Longitudinal Direction, Which has not yet Attained Saturation Temperature (Kriticheskiye teplovyye nagruzki pri prodol'nom omyvanii puchka trubok vodoy, nedogretoy do temperatury nasyshcheniya)
PERIODICAL:	Atomnaya Energiya, 1958, Vol. 4, Nr 4, pp. 370-372 (USSR)
ABSTRACT:	Experimental determination of thermal load was carried out by means of a special apparatus, a sectional view of which is given. The tubular fuel elements (two different variants) were put together in groups of 7 or 19 each in a working channel. (Lattice spacing: equilateral triangle with $a = 6 \text{ mm}$). For the determination of the oritical point of the regime thermo- couples, which were fitted in the channel, were used. The critical thermal flux (q_{cr}) was determined from the electric power developed and was checked by the thermal balance of the water.
Card 1/2	If the q_{cr} -values in dependence on ψ (K ₂) are drawn both for the

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		The Critical Thermal Load in the Flow of Water Over a $89-4-4-9/23$ Attained Saturation Temperature					
	group of seven as well as for that of nineteen tubes, it wi be found that there is good agreement between the values an the theoretically derived relation. There is, however, a deviation between the values for 7 and for 19 tubes, which is probably due to the experimental conditions. Th are 3 figures, and 2 Soviet references.						
	SUBMITTED:	November 25, 1957					
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A CALENDARY CONTENTS AND A CALENDARY

AUTHORS: Kirillov, P. L., Troyanov, M. F. SOV/89-5-4-23/24

- TITLE: On an Error in the Values of the Specific Heat of the Alloys of Sodium With Potassium (Ob odnoy oshibke v znacheniyakh teployemkosti splavov natriya s kaliyem)
- PERIODICAL: Atomnaya energiya, 1958, Vol 5, Nr 4, pp 491-491 (USSR)
- ABSTRACT: In the books "The Thermophysical Properties of Materials" by N. B. Vargaftik and "High-Temperature-Coolants" by A. V. Chechetkin data concerning the properties of sodium-potassium alloys were obtained from the reference work for liquid metals (Editor: Layon). The errors commited in the 1st edition were taken over in spite of the fact that these errors were corrected in the 2nd and 3rd edition of this work. Soviet authors are even induced to draw wrong conclusions from these errors. There are 1 table and 5 references, 0 of which is Soviet.

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87657 S/137/60/000/010/002/040 11.3950 A006/A001 Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 5, # 22408 Translation from: Kirillov, P.L., Subbotin, V.I., Suvorov, M.Ya., Troyanov, M.F. AUTHORS: Investigation of Heat Transfer in a Tube to a Sodium-Potassium TITLE: Alloy V sb.: Vopr. teploobmena, Moscow, AN SSSR, 1959, pp. 80 - 95 PERIODICAL: TEXT: The authors studied heat transfer in a round Cu-tube to an eutectic 22% Na-78% K alloy. It was established that the value of the coefficient of heat transfer from the wall to the liquid metal increased with time and attained a stable value within about 800 hours of operation; this value is in a satisfactory agreement with the Martinella - Lyon (Martinella-Layon) theoretical formula $Nu = 7 + 0.0025 \text{ Pe}^{0.8}$. A.N. Translator's note: This is the full translation of the original Russian abstract. Card 1/1

APPROVED FOR RELEASE: 03/14/2001

- 21(9), 24(8) AUTHORS: Kirillov, P. L., Subbotin, V. I., Suverez, V. Y., Troyanov, M. F.
- TITLE: Heat Transfer in a Tube to a Sodium-Potassium Alloy and to Mercury (Teplootdacha v trube k splavu natriya s kaliyom i k rtuti)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Hr 4, pp 382-390 (USSR)

Into a circular tube system made from (Kh18N9T) steel a liguid ABSTRACT : Na-K-mixture and/or liquid mercury is pumped by means of electromagnetic pumps through a measuring tube (made of brass or nickel, diameter 22-40 mm, wall thickness 4-7 mm, total length 2200 mm, length of heated part of the tube ~ 1100 mm). and the heat transfer is measured. For this purpose a mobile special thermocouple (a sectional drawing of which is given) is constructed. Further thermocouples of various composition are fitted to the walls of the actual range of measurement. The fact that the thermocouples are composed of different materials and are checked by means of a blank test to a certain extent warrants reproducibility of the measuring results. Moreover, devices for measuring the quantity of heat are connected within the measuring circuit for purposes of Card 1/3

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SOV/89-6-4-2/27 Heat Transfer in a Tube to a Sodium-Potassium Alloy and to Mercury

> control. Search thermocouple may be let into the Na-K and Hg current respectively. For the purpose of measuring the electromotive force generated by the thermocouples the potentiometer PPTN-1 is used in conjunction with a mirror galvanometer M-21/4. The NaK circulates through filters and cooling trap, so that the oxygen content in the Na-K-circulation may be reduced down to 0.003 % by weight. On the basis of the experimental data the following conclusions may be drawn: 1) The heat transfer coefficients for Na-K were determined twice, viz.: a) from the wall temperatures of the measuring tube, and b) from the temperature distribution of the flowing Na-K. From both measurements it may be concluded that a contact resistivity to heat exists, which varies with time. The amount of the thermal contact resistivity depends on the oxygen content of the Na-K alloy. It is graphically represented as a function of time (Fig 5). 2) Measurement of the heat transfer coefficients of nickel (measuring tube material) on mercury shows that no thermal contact resistivity exists. Thus, the material of the contact surface influences heat transfer. 3) By using the mobile thermocouple it was possible to find out that the results are not falsified by

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SOV/83-6-4-2/27 Heat Transfer in a Tube to a Sodium-Potassium Alloy and to Mercury boundary effects and that the length of the heat stabilization for the hydraulically stabilized current is 10 1/d (1/d the specific length of the headed part of the measured dist m 4) For the case mentioned under 2), the data obtained agree well with the data obtained from references 4 and 5. The heat transfer coefficient may be represented by the equation Nu = 7 + 0.025 (E Pe)^{0.8}, where $E \approx 1$. There are 9 figures. 1 table, and 10 references, 6 of which are Soviet. SUBMITTED: June 25, 1958 Card 3/3

USACHEV, L. N.; NEVINNITSA, A. I.; TROYANOV, M. F.

CONTRACTOR OF STREET

"Some new aspects of adjoint function and perturbation theory applications in reactor and shielding calculations."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.

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NR: AR6031859 SOURCE CODE: UR/0058/66/000/006/V053/V053	9
AUTHOR: Bazazyants, N. O.; Zaritskiy, S. M.; Troyanov, M. F.	
TITLE: Reading of critical experiments on <u>ZPR-III assemblies</u> by means the FEI constants system $\int \int \int$	of
SOURCE: Ref. zh. Fizika, Abs. 6V435	
REF SOURCE: Byul. Inform. tsentra po yadern. dannym, vyp. 2, 1965,	247-280
TOPIC TAGS: experiment reading, fast neutron assembly, multiplication indicator fission cross section, fast neutron life, fast neutrons/ZPR III as	factor, ssembly
ABSTRACT: The effective multiplication factor, indicator fission cross-s ratio, reactivity caused by various materials when they are placed in the of the system and the life of fast neutrons were calculated by means a sys multigroup constants developed at FEI (Obninsk, USSR) for 11 critical ass using ZPR-III fast neutrons. Metal, oxide, carbide and cermet uranium f	tem of emblies

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ACC NR: AP7000787	~ •	SOURCE CODE: UR/0089/66/0:1/0/0500/0563
AUTHOR: Lytkin, V.	B.; Troyanov, M.	F.; Novozhilov, A. I.
ORG: none TITLE: Use of the m	ethod of calculat	ted losses to choose the characteristics of a
	orgiva. v. 21. no	0. 5, 1966, 360-363
TOPIC TAGS: fast re	actor, nuclear ro	eactor characteristic, and
formulas for the and actor. The basic for ciency factor, and t	prmula employed to the fuel component ns (with credit f so takes into acc	thod of using the theoretical fuel-consumption momics of the fuel cycle of a fast plutonium re- akes care of the initial fuel cost, the effi- at of the cost of electricity generated during the for fuel reprocessing and for plutonium). The count the prolonged stay of the fissioning materies and the screens. Results of calculations are of the fuel component of the calculated expendi-
proposed formula all in the full cycle of presented, in which tures on the heat 1	oad and on the "c , is made evident	e and the screens. Results of curculated expendi- of the fuel component of the calculated expendi- compacting" of the active zone of the reactor of t. The formula takes into account the change in e it stayes in the reactor and time delays in the , and also in the exctraction of the plutonium

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THE PROPERTY AND A DESCRIPTION OF THE PROPERTY ACC NR: AP6000787 from the screens. Plots are presented of the dependence of the amount of plutonium in the fuel cycle of the active zone and the annual consumption in the fuel elements on the energy load of the active zone, of the dependence of the fuel components of the calculated expenditures and the doubling time on the heat rate, and of the dependence of the fuel component on the ratio of the diameter of the active zone to its height. Examples are presented to show that the method yields a good estimate of the relative roles of the initial investiment in the fuel cycle and the running expenses of the fuel cycle, and consequently makes it possible to choose more correctly the optimal characteristics of the reactor. The authors thank A. I. Leypunskiy and V. V. Orlov for interest in the work and useful discussions, and G. S. Filatov for help with the calculations. Orig. art. has: 3 figures and 3 formulas. SUBM DATE: 01Apr66/ ORIG REF: 007 SUB CODE: 18/ 1 2/2 Card 127

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TROYANOV, Pavel Mikheylovich; LAZARIDI, Jl'ya Grigor'yevich; FAKTOR, B.S., tekhn. red.

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[Mechanization and automatic control at the Mirgilimsay Ore Dressing Plant] Mekhanizatsila i avtomatizatsila na Mirgalimsaiskoi obogatitel'noi fabrike. Alma-Ata, TSentr. in-t nauchnotekhn. informatsil, 1960. 12 p. (Mirgalimsay--Ore dressing) (Mirgalimsay--Ore dressing) (Metcllurgical plants--Equipment and supplies)

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L h223-66 EWT(m)/EPA(w)-2/EWA(m)/22 ACCESSION NR: AT5007945 AUTHOR: Kanunnikov, V. N.; Kolonenskiy, A. A.; Ovchinnikov, Ye. P.; Troyanov, Off Ye. F.; Fateyev, A. P.; Yablokov, B. N. Ye. F.; Fateyev, A. P.; Yablokov, B. N. TITLE: Some results of the work on starting the symmetrical electron ring-phaso-	
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retical investigations. It was decided to construct a comparatively small accelerator, the symmetrical 30-Mev electron ring-phasotron, ensuring the simultaneous acceleration of two electron beams moving in opposite directions. This accelerator has to serve as a sufficiently flexible and resourceful basis for experiments on the creation of strong-current accelerators and accumulators. It was planned, in particular, to investigate with it various injection alternatives, accelerator regimes, and also the process of storing one and two counter beams. The principal results of the theoretical and experimental works completed in connection with the development of this accelerator have been published (V. N. Kanunnikov, et. al., Proc. International Conference on High Energy Accelerators, CERN, 1959, p. 89). The present report describes the main difficulties which were overcome in the initial period of starting the installation, and notes the results obtained up to the present moment. The principal parameters of the ring-phasotron are discussed, as well as the measurement and correction of its magnetic field. The characteristics of the beam during static operation are investigated. "The authors wish to thank for their participation workers of various organizations, expecially the associates of the Physics Institute: V. S. Voronin, L. N. Kazanskiy, D. D. Krsil'nikov, A. N. Lebedev, S. S. Semenov, and of the Scientific-Research Institute of Electro-

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Prevention and treatment of nervousness in children. Zdrav. Bel. 7 no.9:41-44 S '61. (MIRA 14:10)

1. Psikhiatricheskaya klinika (zaveduyushchiy kafedroy - pref. M.A. Chalisov) Minskogo meditsinskogo instituta i psikhonevrologicheskiy kabinet 2-oy detskoy polikliniki (glavnyy vrach T.I. Yakovleva) Minska. (NERVOUS SYSTEM_DISEASES) (CHILDREN_DISEASES)

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TROYANOVA, A. G., Candidate Med Sci (diss) -- "The pathophysiology of presenile psychosis". Minsk, 1958. 15 pp (Minsk State Med Inst), 200 copies (KL, No 24, 1959, 153)

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TROYANOVA, M.

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Support the heroic struggle of the people against colonialism. Vsem. prof.dvizh.no.ll:55 N 356. (MIRA 10;1)

1. Sekretar' TSentral nogo soveta profsoyuzov Chekhoslovakii. (Colonies)

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MASLIKOV, V.A.; TROYANOVA, N.L.

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Boiling points of sunflower oil-benzine miscellas. Trudy KIPP no.16:47-50 '57. (MIRA 12:7)

1. Krasnodarskiy institut pishchevoy promyshlennosti, Mekhanicheskiy fakul'tet, kafedra spetsoborudovaniya i kafedra tekhnologii zhirodobyvaniya.

101

(Boiling points)

LANDERSKI SANDA

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XELIKMAN, I.F.; TROYANOVA, N.L.
Rate of crystallization of sucrose from a mixture of sugar best
syrup and the unrefined cane sugar solution, Sakh.prom. 36
no.9:21-23 \$ '62. (NIRA 16:11)
. Krasnodarskiy institut pishchevoy promyshlennosti. . . .

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KOPEYKOVSKIY, V.H.; SHERBAKOV, V.G.; GARBUZOVA, G.I.; IGOL'CHENKO, M.I.; RYAZAITSEVA, M.I., TROYARDVA, N.L.

Problem of the forced ventilation of sunflower seeds. Izv.vys. ucheb.zav.; pishch.tekh. no.1:20-23 '59. (MIRA 12:6)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kefedra tekhnologii zhirodobyvaniya. (Sunflower goed--Storage)

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TR	04	ANOVA, N.L.	
USSR/Chemic	cal	Technology - Chemical Products and Their 1-10 Application. Fats and Oils. Waxes. Soap. Detergents. Flotation Reagents.	
Abs Jour	:	Ref Zhur - Khimiya, No 1, 1958, 2687	
Author	:	Zarnitskiy, G.E., Kopeykovskiy, V.M., Troyanova, N.L., Shcherbakov, V.G.	
Inst	:	Krasnodar Institute of the Food Industry	
Title	:	Steam Expenditures and Ways of Increasing the Heat-Utiliza- tion Coefficient in Oil-Extracting Plants.	
Orig Pub	:	Tr. Krasnodarsk. in-ta pishch. prom-sti, 1956, No 14, 75-80	
Abstract	:	Different operating conditions of distillation columns of oil-extracting plants were studied. It was found that when the rate of miscella feed is increased up to $8.7-9.3$ m ³ /hour, steam consumption is reduced gy 8%; in this manner, in the extraction department of a plant that	
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ZARNITSKIY, G.E., kandidat tekhnicheskikh nauk; KOPKYKOVSKIY, V.M., kandidat tekhnicheskikh nauk; TROTANOVA, N.L., inshener; SHCHERBAKOV, V.G., inzhener.
Ways of increasing the heat utilization coefficient in oil extraction plants. Masl.-zhir.prom. 21 no.2:26-28 '56. (MIRA 9:7)
I.KIP.
(Intraction apparatus)

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KOPEYKOVS	VSKIY, V.M., kand.tekhn.nauk; SHCHIRRAKOV, V.G., kand.tekhn.nauk; Garbuzova, G.I., inzh.; IGOL'CHINKO, M.I., inzh.; RYAZANTSEVA, M.I.; TROYANOVA, M.L., inzh.				
	Posthervest drying of oil-rich sunflower seed 26 no.3:12-14 Mr '60.	ds. Maslzhir.prom. (MIRA 13:6)			
	1. Krasnodarskiy institut pishchevoy promyski (Krasnodar TerritorySunflower	lennosti. seed)			



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tekh. no.5:137-143 ¹⁶².

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LEYBOVICH, D. M.; ZELIKMAN, I. F.; TROYANOVA, N. L. Rapid method of determining the coefficient of saturation of solutions in sugar manufacture. Izv. vys. ucheb. zav.; pishch. tekh. no.5:137-143 ¹62. (MIRA 15:10)

1. Krasnodarskiy institut pishchevoy promyshlennosti, kafedra tekhnologii sakharistykh veshchestv.

> (Crystallization-Testing) (Sugar manufacture)

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ACC NR: AP7004766 (N) SOURCE CODE: UR/0413/67/000/001/0081/0081	
INVENTOR: Troyanovskaya, G. I.; Bereznikov, V. V.; Grib, V. V.; Alekseyev, N. M.; Mironov, O. G.	
ORG: None	
TITLE: A method for studying processes of sliding friction in a vacuum. Class 42, No. 190043	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 81	
TOPIC TAGS: friction, vacuum technique, surface property	i Ţ i
ABSTRACT: This Author's Certificate introduces a method for studying processes of sliding friction in a vacuum. The procedure consists of placing two specimens in a vacuum chamber and moving them against one another under a load. In order to study friction processes between absolutely clean (juvenile) surfaces, the oxide film is sheared from the surfaces of the specimens before and during testing in the vacuum chamber.	
SUB CODE: 🚒 20/ SUBM DATE: 26Jun65	! !
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TROYANOVSKAYA, G. I. PHASE I BOOK EXPLOITATION SOV/6217
Kragel'skiy, Igor' Viktorovich, Doctor of Technical Sciences, Professor
Treniye i iznos (Friction and Wear). Moscow, Mashgiz, 1962. 382 p. Errata slip inserted. 11,000 copies printed.
Reviewer: D. N. Garkunov, Candidate of Technical Sciences; Ed.: V. I. Kumanin, Engineer; Ed. of Publishing House: V. V. Bystritskaya; Tech. Eds.: A. Ya. Tikhanov and T. F. Sokolova; Managing Ed. for Literature on General Engineering: A. P. Kozlov, Engineer.
PURPOSE: This book is intended for scientific workers and engineers engaged in the development of friction and antifriction materials

and for designers and specialists in the operation and repair of machines.

COVERAGE: The book deals with the analysis of various types of friction and wear and with calculations relating to certain processes characterizing them. Methods of testing for friction and wear are

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reviewed, and basic data on friction and antifriction materials discussed. The author acknowledges the assistance and cooperation of: V. A. Kudinov; G. I. Troyanovskaya, Candidate of Technical Sciences, who participated in writing Ch. III and Ch. X; N. B. Demkin, Candidate of Technical Sciences, who participated in writing Ch. II; Yu. I. Kosterin, Candidate of Technical Sciences, who participated in writing Ch. VII; and V. A. Kudinov, Candidate of Technical Sciences, who wrote Ch. IX. Each chapter is accompanied by references, mostly Soviet.

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		1 - LA BUNTS AT MERIKEBERGENJERE METROE LOOM
	<u>L 10709-67</u> EWT(m)/EWP(j) IJP(c) DJ/RM ACC NR: AP6025817 (A) SOURCE AUTHORS: Vaynehteyn, V. E. (Candidate of techni (Candidate of technical sciences)	CODE: UR/0117/66/000/005/0018/0020 al sciences); <u>Troyanovskaya</u> , G. I.
	ORG: none TITLE: Self-lubricating polymoric matorials in	rollor bearings
	SOURCE: Mashinostroitel', no. 5, 1966, 18-20	hubmicant, cobalt, chromium,
	ABSTRACT: The use of the following polymeric s construction of roller bearings on the high-tem longevity of the bearings was investigated: pol + graphite, and teflon + fiber glass. (5 The peri	elf-lubricating materials in the aperature and vacuum performance and lyucotal, MoS ₂ + epoxy regin, polyamide formance of Gr-Mo-V and steel ShKh15 l results are presented in graphs and
-	roller bearings was compared. The experime tables (see Fig. 1). It was found that the per improved considerably if the latter were equip (see Fig. 2). The most effective lubricant was + fiber glass. Card 1/2	ped with a special polyanide fing s found to be the combination teflon UDC: 621.822.6.002.3:678.5

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	L 2572-66 EWT(m)/EFF(c)/EWP(j) DJ/GS/RM ACCESSION NR: AT5022679
	ACCESSION NR: AT5022679 AUTHORS: Akishin, A. I.; Troyanovskaya, G. I.; Isayev, L. N.; Sergeyeva, L. M.; 77 Andreyeva, M. G.; Marchenko, Te. A; Alekseyev, N. M. 44 Andreyeva, M. G.; Marchenko, Te. A; Alekseyev, N. M. 44 Authors and some self-lubricating materials in a
	minir. Behavior of friction junctions and the
	Tromum under 101 Dundar under
	SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya treniya i iznosa (Theory of friction and wear). Moscow, Izd-vo Nauka, 1965, 285-289
-	TOPIC TAGS: friction, wear, solid lubricant, molybdenum disulfide, polymer, ion modiation effect/ AMAN self lubricating material, AF ZA plastic lubricant 6
	ABSTRACT: The effects of hydrogen ion bombardment on the coefficient of <u>iristion</u> and on wear of friction junctions were investigated. Self-lubricating materials and on wear of friction junctions, and various polymeric bonding matrices, and,
	in particular, material Addit, bronzectored is hown on Fig. 1 on the Enclosure. The plastic AF-ZA were tested in the apparatus shown on Fig. 1 on the Enclosure. The specimens were irradiated with 3-Kev hydrogen ions, and their friction and wear characteristics against a steel shoe (1 kg load, 1.2 m/sec) were measured over a
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'APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756810004-9 2 L 2572-66 ACCESSION NR: AT5022679 9.5-hour period (1 hour run-in, 2 hours in vacuum, 6 hours in vacuum under radiation and 30 minutes without radiation, or 1 hour run-in and 8.5 hours in vacuum without radiation). It was found that the coefficient of friction decreased significantly in vacuum, but that radiation had no measurable effects on friction or wear of any materials tested. Thus the coefficient of friction can be calculated from $f = 0.35C_8 \left(\frac{p_o}{H_sB}\right)^{\frac{1}{6}} + 0.9\beta + \frac{\tau_0}{HB}$ (where β = adhesion coefficient, C_5 and γ = microstructure characteristics, T_0 = specific shear adhesion, p_o = contour pressure) which is suggested by Kragel'skiy and Mikhin. The wear can be calculated from $-\ln \left| 1 - \frac{h_{max}}{R} \left(\frac{p}{bHB} \right)^{\overline{v}} - \right|$ (where θ = angle of irregularities on friction surface, δ = elongation in tension, $T_g = yield point)$. Orig. art. has: 2 formulas, 3 tables, and 2 figures. ASSOCIATION: Nauchnyy sovet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR) Card 2/4

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TROYANOVSKAYA, (-1 225 Rev. PHASE I BOOK EXPLOITATION Tomsk. Universitet. Sibirskiy fiziko-tekhnicheskiy institut. Issledovaniya po fizike tverdogo tela (Research in the Physics of Solids) Moscow, Izd-vo AN SSSR, 1957. 277 p. 4,000 copies printed. Resp. Ed.: Bol's Manina, M. A., Dr. of Physical and Mathematical Sciences, Prof.; Ed. of Publishing House: Bankvitser, A. L.; Tech. Ed.: Kashina, P. S. Approved for printing: Akademiya nauk SSSR. Otdeleniye fizikomatematicheskikh nauk. PURPOSE: This collection of articles is meant for metallurgical physicists and for engineers of the metalworking industry. COVERAGE: This book contains results of research in the field of failure and plastic deformation of materials, mainly of metals. The work was conducted along two main lines: 1) study of the physical principles of plasticity, study of the effect of temperature, rate of deformation, character of alloys, etc., on the mechanical properties, and 2) the study of the cutting, wear, and friction characteristics of metals and alloys. This collection is Card 1/13

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位可以不必不特定的并且形态不行。 CARACTERISTICS AND REAL PROPERTY AND THE REA 编标 TATE PARTY 225 Rev. Research in the Physics of Solids dedicated to Vladimir Dmitriyevich Kuznetsov, Corresponding Member of the Academy of Sciences of the USSR, Professor, Doctor of Physical and Mathematical Sciences. The physicists of the Tomsk State University Siberian Physics-technical Institute (SFTI) and other scientists participated in this work. TABLE OF CONTENTS: 4 Preface Vladimir Dmitriyevich Kuznetsov, Corresponding Member of the Academy of Sciences of the USSR (on the Occasion of the 70th Anniversary of 5 his Birthday) Khrushchov, M. M. Certain Problems in Abrasive-Wear Testing Methods 10 Wear-testing investigations were performed by Zaytsev, A. K., Professor Matsin, E. A., Zamotorin, M. I., Professor, Khrushchov, M.M., and Babichev, M. A. Abrasion testers used were the Kh 4 and Kh 4-B. There are 5 figures, 1 table and 17 references, 9 of which are Soviet. Card 2/13

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Research in the Physics of Solids 225 Rev. Personalities mentioned are Kosenko, I. A., In'shakov, N. N., Seredenko, B. N., Khrushchov, M. M., Professor, Radchik, V. S., and Radchik, A. S. Wear-testing machines used were the type A Ye.-5 and type MI; materials tested, steel 45, bronze BrAZhMts, and plexiglass; lubricant used, type MS plus abrasive. There are 3 figures, 2 tables, and 13 references, 12 of which are Soviet. Kiselev, G. I. Effect of Scale on the Scratch Test of Metals 49 Personalities mentioned are Davidenkov, N. N., Savitskiy, K. V., and Kudryavtseva, L. A., from SFTI; Gogoberidze, D. B. and Maslov, Ye. N. Materials tested were lead, tin, copper, iron, brass L-62, and aluminum; cutting points used, ShKh 15, hard alloy VK -8, and a diamond point. The testing machine was developed by SFTI. Microscope used was the type MIS -11. There are 5 figures, 2 tables, and 8 references, 7 of which are Soviet. Card 4/13 元。而且

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Yepifanov, G. I. The Binomial Law of Friction. Personalities mentioned are Deryagin, B. V., Kragel'skiy, I. V., and Minayev, N. I. Materials tested were electrolytic copper, high purity aluminum. Armco iron, brass, steel EI -417, and alloy EI -437. There are 7 figures, 3 tables and 5 references, 3 of which are Soviet.	
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	Toporov, G. V. Effect of the Structure and Quantity of Pearlite on Abrasive Wear of Cast Iron
	Personalities mentioned are Konvisarov, D. V., Grechin, V. P., Sukhodol'skaya, Ye. A., Kislik, V. A., Frolov, V. I., Chernenko, D. N., Dubinin, N. P., Timofeyev, V. G., and Kuznetsov, V. D. Material tested was the eutectic steel U 8. There are 3 tables and 10 Soviet references.
	Savitskiy, K. V. Study of the Distribution of Residual Deformations Under a Friction Surface
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Material studied was tin. There are 4 figures, 2 tables, and 9 references, 8 of which are Soviet. 2hdanova, V. N. Study of the Softening of Drawn Tin Due to Applied Load 17 Personalities mentioned are Oding, I. A., Kulikov, F. V., Makagon, M. B., Legkova, M. L., and Tabatarovich, A. K. Materialsstudied were tin Ol and commercial tin. There are 2 figures and 2 Soviet references. Kybalko, F. P. Nonuniform Distribution of Plastic Deformation and Hardening Orientation 17 Materials tested were aluminum and copper. There are 7 figures and	Material studied was tin. There are 4 figures, 2 tables, and 9 reference 8 of which are Soviet. Zhdanova, V. N. Study of the Softening of Drawn Tin Due to Applied Load Personalities mentioned are Oding, I. A., Kulikov, F. V., Makagon, M. B., Legkova, M. L., and Tabatarovich, A. K. Materialsstudied were tin Ol and	·8 ,
Personalities mentioned are Oding, I. A., Kulikov, F. V., Makagon, M. B., Legkova, M. L., and Tabatarovich, A. K. Materialsstudied were tin Ol and commercial tin. There are 2 figures and 2 Soviet references. Rybalko, F. P. Nonuniform Distribution of Plastic Deformation and Hardening Orientation 17 Materials tested were aluminum and copper. There are 7 figures and	Personalities mentioned are Oding, I. A., Kulikov, F. V., Makagon, M. B., Legkova, M. L., and Tabatarovich, A. K. Materialsstudied were tin Ol and	170
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225 Rev. Research in the Physics of Solids Grin', A. V., and Pavlov, V. A. Internal Friction in Deformed Aluminum-184 Magnesium Alloys Personalities mentioned are Veynberg, B. P., Kuznetsov, V. D., and Ioffe, A.F. Materials used were alloy prepared from aluminum AV000 and electrolytic magnesium. There are 6 figures and 18 references, 9 of which are Soviet. Bol'shanina, M. A., and Panin, V. Ye. Latent Energy of Deformation Personalities mentioned are Bol'shanina, M. A., Khotkevich, V. I., Kunin, N. F., Senilov, G. V., Fedorov, A. A., Degtyarev, M. M., Studenok, Yu.A., Panin, V. Ye., Tyzhnova, N. V., Fastov, N. S., Shermergor, T. D., Nikitina, A.K., Shelepukhin, P. R., Gruzin, P. L., and Milevskaya, V. G. Materials studied were copper, aluminum, nickel, steel, steel 3, iron, brass, bronze, zinc, silver, and tin. There are 19 figures, 4 tables, and 64 references, 23 of which are Soviet. Vasil'yev, L. I., Yelsukova, T. F., Bol'shanina, M. A., and Kondrat'yev, P. A. Vibrational Stability of Certain Lead Alloys Used for Cable 234 Heathing, Part 1. Card 11/13 2

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Personalities mentioned are Samoylov, V. N., Obolentsev, A. V., and Vasil'yev, L. I. Materials studied were a total of 13 lead alloys: binary alloys of lead with antimony, tin, cadmium, bismuth, and tellurium; ternary alloys of lead-antimony-tin, lead-antimony-tellurium, lead-antimony-arsenic, lead-antimony-sodium, and lead-antimony-selenium; quaternary alloys of leadantimony-tin-copper and lead-tin-bismuth-arsenic. Research was done from specifications of the Tomsk Cable Plant "Tomkabel" with the participation of engineers of this plant. There are 4 figures, 3 tables, and 4 Soviet references.

Bol'shanina, M. A., Yelsukova, T. F., Kondrat'yev, P. A., and Fomina, M.A. Vibrational Stability of Certain Lead Alloys Used for Cable Sheathing, Part 2.

Personalities mentioned are Zakharov, P. A., Pereslegin, V. A., Dnestrovskiy, N. Z., and Shpagin, A. I. Materials studied included 19 different lead alloys: binary alloys of lead-antimony, lead-cadmium, lead-tin, lead-bismuth, and lead-tellurium; ternary alloys of leadantimony-tin, lead-antimony-sodium, lead-antimony-arsenic, lead-antimonytellurium, and lead-antimony selenium; quaternary alloys of leadantimony-Card 12/13

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Research in the Physics of Solids 225 Rev. tin-copper and lead-antimony-bismuth-arsenic. There are 17 figures, 4 tables, and 12 references, 3 of which are Soviet, 1 German, and 8 in English. Kiselev, G. I. and Ilyushchenkov, M. A. Physical and Mechanical Properties of Low-Carbon Steel 262 Personalities mentioned are Shramkov, Ye. G., Akulov, N. S., and Lifshits, B. G. There are 9 figures, 3 tables, and 16 references, 13 of which are Soviet. Karpenko, G. V. Universality of the Adsorption Effect of Hardness Decrease in Metals 273 Personalities mentioned are Aslanova, M. S., Chayevskiy, M.I., Markova, N. Ye., Rebinder, P. A., and Likhtman, V. I. Materials used were the steel ShKh 15 and brass L-62. There are 9 Soviet references and 1 figure and 1 table. AVAILABLE: Library of Congress Card 13/13 BK/mal 9-11-58 I REAL FRANKLIKE THE REAL PROPERTY OF THE REAL PROPERTY.

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TROMANOVSKAYA, G. I. and KRAGEL'SKIY, I. V.

REPORTS AND A CONTRACT OF A

"Effect of Temperatures on Friction Characteristics" in book <u>Research in the</u> <u>Physics of Solids</u>, Moscow, Izd-vo AN SSSR, 1957. 277 p. Ed. Bol'shanina, M. A. Tomsk Universitet, Siberskiy fiziko-tekhnicheskiy institut.

The following materials were used in experiments: plastics FK-24A and 6KKh-1 and metal ceramic MK-2, and as the second element of the friction pair cast iron ChNMKh, SCh-21-40, and steel 45. The machine used was type I-47-K-54, There are 9 figures, and 15 references, 7 of which are Soviet.

This collection of articles is meant for metallurgical physicists and for engineers of the metal-working industry. This book contains results of research in the field of failure and plastic deformation of materials, mainly of metals. Problems of cuting, abrasion, friction, and wear of solid materials. (metals) are discussed.

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USSR/ Engin		ring - Materials
Card 1/1		Pub. 124 - 11/30
Authors	8	Troyanovskaya, G. I., And Lazarev, G. Ye.
Title	t	Heat resistant friction material "RETINAKS"
Periodical	:	Vest. AN SSSR 25/7, 71 - 73, Jul 1955
Abstract	T	The development of a new heat resistant $(1000^{\circ}C)$ friction material called "RETINAKS", trade name FK-24A, is announced. Results obtained in testing the new material, presently used for mass production of brake-shoes, are described. Composition of the new material is not described but mention is made that one of its components is phenol-formaldehyde resin. The advantages of the Retinaks material over the 6KKh brake-shoe material are listed. It is shown that the addition of brass or soft steel filings to the Petinaks composition increases its frictional and mechanical properties at forced brake conditions.
Institution	:	
Submitted	:	
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- Submoye i pranichacye treniye. Friktaionnyye wata inly (bryonal Bountry Frictica. Fri tien Actorials) Nober, Isdaye Angush, 1960. 3-2 p. Emate sliping to 1. 1,500 copies rinted. (Seried: Its: Truty, 7.2)

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KRAGEL'SKIY, Igor' Viktorovich, doktor tokhn. nauk, prof. Prinimali uchastiye: TROYANOVSKAYA, G.I., kand. tekhn. nauk; DEMKIN, N.B., kand. tekhn. nauk; KOSTEAIN, Yu.I., kand. tekhn. nauk; KUDINCV, V.A., kand. tekhn. nauk; GARKUNOV, V.I., inzh., red.; BYSTRITSKAYA, V.V., red. izd-va; TIKHANOV, A.Ya., tekhn. red.; SOKOLOVA, T.F., tekhn. red.

[Friction and wear] Trenie i iznos. Moskva, Mashgiz, 1962. 382 p. (MIRA 15:3)

> (Friction) (Mechanical wear) (Lubrication and lubricants)











"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756810004-9 BERRI, L.Ya., doktor ekon. nauk, prof.; MAKSIMOV, I.S.; BRAGINSKIY, B.I., doktor ekon. nauk; GRIGOR'YEV, A.Ye., doktor ekon. nauk, prof.; ITIN, L.I., doktor ekon. nauk, prof.; LOKSHIN, E.Yu., prof.; KAMENITSER, S.Ye., doktor ekon. nauk, prof.; OBLOMSKIY, Ya.A., kand. ekon. nauk, dots.; SHASS, M.Ye., doktor ekon.nauk, prof.; STEPANOV, A.Ya.; ULITSKIY, L.I., prof., doktor ekon. nauk; PODGÓRNOVA, V., red.; TROYANOVSKAYA, N., tekhn. red. [Economics of socialist industry] Ekonomika sotsialisticheskoi promyshlennosti; uchebnik. 3., dop. i perer. izd. Pod red.L.I. Itina. Moskva, Gospolitizdat, 1963. 646 p. 1. Moscow. Gosudarstvennyy ekonomicheskiy institut. 2. Zaveduyushchiy kafedroy ekonomiki promyshlennosti Moskovskogo instituta narodnogo khozyaystva im.G.V.Plekhanova (for Itin). (Russia-Industry)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756810004-9 HERE'S 1.62176754755475 THOMANOVSKI, A. V. 4 Mg 200 Ô . Losses at the electrode contacts of baths for the electro-lytic zinc process. A. V. Troyanovskii (Mech. Machine Tool Inst., Chelyabinsk). Prom. Energel. 7, No. 7, 12-13 (1950); Chem. Zentr. USI, H. 205.—Electrodes of sheet AI with Cu rods as lead-in lines underwent corresion in HSO₄ funces at $40-42^\circ$, which resulted in the formation of a surface film consisting of ZnSO, up to 60, AltOH), up to 31, and Fe up to 7%. Therefore, contacts of uniform metal were installed. The joints between the sheet metal-and lead-in lines were welded or soldered. M. G. Moore—

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TROYANOVIETY, A. V. USSR/Blectricity - Industrial Electrolysis May 52 Methods for Determining and Measuring Leakage Cur- rents in Zinc Electrolysis Shops, "Engr A. V. Troy- anovskiy Prom Energet, No 5, pp 12 - 16 Mesults of study and measurement of current leakages in basis of author's work at a Zn plant, 1949 - 51 (many verified at other such enterprises), show that high leakage (2-2.5% in some cases) can be reduced, saving metal and power, by use of non-con- dor bo for beth linings, piping. Recommends this procedure for Zn, Cu, Ni electrolysis plants.	FEATURATE FEATURE FEATURE	Real Real Contraction of the Source of the	
Metallurgy - Electrolysis of Hint "Methods for Determining and Measuring Leakage Cur- rents in Zinc Electrolysis Shops," Engr A. V. Troy- anovskiy Prom Energet, No 5, pp 12 - 16 Results of study and measurement of current leakages on basis of author's work at a Zn plant, 1949 - 51 (many verified at other such enterprises), show that high leakage (2-2.5% in some cases) can be reduced, saving metal and power, by use of non-con- ducting materials ("vinilplast", "faolin") instead of Pb for bath linings, piping. Recommends this procedure for Zn, Cu, Ni electrolysis plants.	TROYANOVSKIY, A.		
rents in Zinc Electrolysis Shops, Engrand anovskiy Prom Energet, No 5, pp 12 - 16 Results of study and measurement of current leakages on basis of author's work at a Zn plant, 1949 - 51 (many verified at other such enterprises), show that high leakage (2-2.5% in some cases) can be reduced, saving metal and power, by use of non-con- ducting materials ("vinilplast", "faolin") instead of Pb for bath linings, piping. Recommends this procedure for Zn, Cu, Ni electrolysis plants.		USSR/Electricity - Industrial Electrolysis May 52 Metallurgy - Electrolysis of Zinc	
Results of study and measurement of current leakages on basis of author's work at a Zn plant, 1949 - 51 (many verified at other such enterprises), show that high leakage (2-2.5% in some cases) can be reduced, saving metal and power, by use of non-con- ducting materials ("vinilplast", "faolin") instead of Pb for bath linings, piping. Recommends this procedure for Zn, Cu, Ni electrolysis plants.		rents in Zinc Electrolysis Shops, Sug-	
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TROYANOVSKIY, A.V.; MASHKOVICH, P.S., inzhener, retsenzent; KOLDASHOV, V.A., redaktor; NAUMOV, V.I., redaktor; MIKHAYLOVA, V.V., tekhnicheskiy redaktor. f Economizing on electric energy in the electrolysis of zinc and

copper; basic electric characteristics of the processes and electric equipment used] Ekonomiia elektroenergii pri elektrolize tsinka i medi; osnovnye elektricheskie kharakteristiki protsessov i elektrooborudovaniia. Moskva, Gos. nauchno-tekhnicheskoe izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 166 p. (MLRA 8:1) (Electrolysis) (Zinc-Electrometallurgy) (Copper-Electrometallurgy)

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TROYANOVSKIY, A. V.

"Determination of Optimum Electrical Parameters and Electrical Equipment for the Purpose of Effecting an Economy in Electric Power in the Electrolysis of Heavy Nonferrous Metals." Cand Tech Sci, Ural Polytechnic Inst imeni S. M. Kirov, Min Higher Education USSR, Chelyabinsk-Sverdlovsk, 1955. (KL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55- Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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CCESSION NR: AP4041639	S/0114/64/000/006/0039/0040
UTHOR: Troyanovskiy, B. M. (Zanin, A. I.; Kazintsev, F. V. (E	Candidate of technical sciences, Docent); ngineer)
FITLE: Higher economy of a stag nilled blades	e in which stamped blades were replaced with
SOURCE: Energomashinostroyeni	ye, no. 6, 1964, 39-40
IOPIC TAGS: steam turbine, ste milled turbine blade, steam turbin	am turbine blade, stamped turbine blade, ne economy
urbine was tested under various (b) MEI-designed milled varying-	VPT-25-4 (Ural Turbomotor Plant) steam conditions with (a) stamped nozzle blades and thickness blades having the same effective ency was 80-81% and 86% for the first and second asts were staged with pressure ratios
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	AID P - 5114	
Subject	: USSR/Engineering	
Card 1/1	Pub. 110-a - 17/18	
Authors	: Belosel'skiy, B. S., B. M. Troyanovskiy, Kandidats Tech. Sci., A. M. Mostovaya, Librarian.	
Title	: New books	
Periodical	: Teploenergetika, 10, 63-64, 0 1956	
Abstract	: Book-reviews discussing 14 new technical books published in the USSR in 1956.	
Institution	: None	
Submitted	: No date	

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AID P - 5115 Subject : USSR/Engineering Card 1/1 Pub. 110-a - 18/18 Author : Troyanovskiy, B. M., Kand. Tech. Sci. Title : Foreign books Periodical : Teploenergetika, 10, 64, 0 1956 Abstract : Book review discussing technical books published in the USA, England, Germany, Hungary, France, in 1955-1956. Institution : None Submitted : No date	"APPROVE	ED F	OR RELEASE:	03/14/2001	
Subject : USSR/Engineering Card 1/1 Pub. 110-a - 18/18 Author : Troyanovskiy, B. M., Kand. Tech. Sci. Title : Foreign books Periodical : Teploenergetika, 10, 64, 0 1956 Abstract : Book review discussing technical books published in the USA; England, Germany, Hungary, France, in 1955-1956. Institution : None		10-162-1			
Subject : USSR/Engineering Card 1/1 Pub. 110-a - 18/18 Author : Troyanovskiy, B. M., Kand. Tech. Sci. Title : Foreign books Periodical : Teploenergetika, 10, 64, 0 1956 Abstract : Book review discussing technical books published in the USA; England, Germany, Hungary, France, in 1955-1956. Institution : None					AID P - 5115
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Abstract : Book review discussing technical books published in the USA, England, Germany, Hungary, France, in 1955-1956. Institution : None	Title	:	Foreign bool	KS	
USA, England, Germany, Hungary, France, In 2000 10	Periodical	:	Teploenerge	tika, 10,	64, 0 1956
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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001756810004-9 TROYANOVSKIY, B.M.; KIRSANOV, I.N., redaktor; IARIONOV, G.Ye., tekhni-Cheskly redaktor. [Prombems in designing and operating steam turbines] Nekoterye voprosy procktirovaniia i ekspluatatsii parovykh turbin. Ho -

skva, Ges.energ.isd-ve, 1957. 135 p.

(Steam turbines)

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AUTHORS:	Deych, M.E. (Cand. Tech. Sci.), Samoylovich, G.S. (Cand. Tech.Sci.), Troyanovskiy, B.M. (Cand. Tech. Sci.), Kazintsev, F.V. (Engineer) and Lipatnikov, S.N. (Eng.)
TITLE:	Investigation of two-crown regulating stages in an experimental steam turbine. (Issledovaniye dvukhvenechnykh reguliruyushchikh stupeney v parovoy eksperimental'noy turbine).
PERIODICAL:	"Teploenergetika" (Thermal Power), Vol.4, No.5, May, 1957, pp.35-43 (U.S.S.R.)
ABSTRACT :	Operating test results have shown that the regulating stages having two sets of blading on a single runner that are used by steam turbine factories are of low efficiency. Therefore, turbine designers try to avoid the use of such stages in high power turbines. However, hitherto, such stages have not been systematically investigated, the reasons for their low efficiency have not been established and methods of improving the efficiency have not been indicated. This article describes new 2-crown regulating stages that have been developed in the Moscow Power Institute intended for various heat drops and steam consumptions. The explanations of the type of stage and of the experimental conditions are all expressed in terms of Soviet conventional notation which is assumed to be so familiar to the reader as to require no explanation. The experimental set-up is described, the available experimental turbine having the following limiting
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Investigation of the two-crown regulating stages in an experimental steam turbine. (Cont.)

conditions: maximum power 600 kW, maximum speed 12 000 r.p.m.; initial pressure 1 to 5 atm.; maximum initial temperature 150 to 300°C and exhaust pressure 0.1 to The turbine is loaded by a hydraulic brake. The main geometrical characteristic of the stages tested are described with full information about blade profiles and dimensions. The results of the tests are presented.in the form of graphs of the internal and blade efficiencies.

The experiments carried out were of a preliminary nature. For a number of operational reasons unstable conditions were obtained with a deep vacuum beyond the stage and it was, therefore, impossible to obtain a reliable efficiency value for certain conditions and particularly for low Reynolds numbers. Moreover, the relative error of the experiment is higher with deep vacuums because the power of the stage is less. However, the test results are of interest in that they give a qualitative picture of the relationship between efficiency and Reynolds number. Graphs illustrating this point are given. Information is also given about changes in the reaction under different conditions and the results of investigations on the stages with partial supply of steam. Some results are also given on a

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Investigation of the two-crown regulating stages in an experimental steam turbine. (Cont.)

detailed investigation of the structure of flow in the stages, including graphs of pressure distribution over the profile of the blading.

It is concluded that stage type KS-lA is of high efficiency over a fairly wide range of conditions. With partial supply of steam the blade and internal efficiencies of the stage are reduced. Protective housings and longitudinal glands on the boundaries of the arc of steam supply should be installed to reduce windage losses. General agreement was found between the pressure distributions over the profile determined under static conditions and by calculations. There is reason to think that similarity of pressure fields is observed during tests using steam and air. 11 figures, 1 literature reference (Russian).

Card 3/3

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