"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

at 1550°C ($\rho = 2.5 \cdot 10^5$ ohm/cm). Its variation with temperature was much slower than that of pure boron nitride. In vacuo (10^{-5} mm Hg) the boron nitride - graphite fusion evaporates more slowly than pure boron nitride (at 1500 ± 10°C $(2.02 \pm 0.15) \cdot 10^{-7}$ g/cm^2·sec) and oxidizes above 1000°C. Articles made of this new refractory have been used in the Institut metallurgii im. A. A. Baykova (Institute of Metallurgy imeni A. A. Baykov), in the Leningradskiy politekhnicheskiy institut (Leningrad Polytechnic Institute) and in the Institut metallokeramiki i spetsial'nykh splavov AN USSR (Institute of Powder Metallurgy and Special Alloys AS UkrSSR) to compare their refractoriness and chemical stability with those of fusions containing the silicides of transition metals, boron - silicon alloys (at 2000°C), of cryolite - aluminum melts (at 1000°C), borate and chloride melts (900°C). The new material has a better refractoriness than graphite, zirconium dioxide, and boron carbide and can be used for the production of aluminum for electrolizer linings, thermocouple sheathes, very pure metals and alloys for semiconductors, and also for machine parts working under low load in contact with agressive molten media. There are 3 figures and 1 table.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN USSR (Institute of Powder Metallurgy and Special Alloys AS UkrSSR)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

ZOZULYA, B.I.; MOROZOV, V.N.; SEMENOV, Yu.N.; Prinimal uchastiye ANTOSHIN, V.G.

Ceramic metal filters for the automatic analysis of pulp in the production of alumina. Porosh. met. 3 no.4:101-105 Jl-Ag '63.

1. Zaporozhskoye otdeleniye Instituta metallokeramiki i spetsial'nykh splavov AN UkrSSR i Zaporozhskiy filial instituta avtomatiki.
(Filters and filtration) (Hydrometallurgy)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 15033-65 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPR/EPA(w)-2/T-2/EWP(b)/EWA(d)/EWP(t) Pab-24/Pr-4/Ps-4/Pt-10/Pu-4 AEDC(b)/AFETR/IJP(c) WH/BW/WW/JD/JG

ACCESSION NR: AP4046751 S/0226/64/000/005/0087/0091

AUTHOR: Morozov, V. N.; Semenov, Yu. N.

TITLE: Iron cermet filters for thorough purification of diesel fuel

SOURCE: Poroshkovaya metallurgiya, no. 5, 1964, 87-91

TOPIC TAGS: diesel fuel, diesel fuel purification, cermet filter, filter, diesel fuel filter, fuel filter

ABSTRACT: A study has shown that iron powder produced by grinding compacts of reduced iron oxide scale in ball mills is suitable for making high-throughput cermet filters for diesel fuel. The powder was sintered at 1100—1150C in undissociated ammonia. The effects of additional powder roller-milling and of sintering time on throughput were determined. Sintering time beyond 2 hr has no effect but roller milling raised throughput 35—50%. Successful 2460-hr field tests on a diesel engine were conducted. The slight amount of corrosion that occurred had no detrimental effect. It is estimated that the cost of mass-

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 15033-65
ACCESSION NR: AP4046751

produced cermet filters will be 1/20 to 1/25 of that of felt filters; in addition, the cermet filters will last longer in service. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR, Zaporozhskoye otdeleniye (Institut of Problems of Materials Science, Academy of Sciences, UkrSSR, Zaporozh'ye Branch)

SUBMITTED: 27Jan63 ENCL: 00 SUB CODE: MT

NO REF SOV: 005 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

KRAMNIK, V.Yu.; SEMENOV, Yu.N.; ARUTYUNOV, E.A.; MOROZOV, V.N.; DEMCHENKO, O.Ya.

Chemically resistant ceramic metal filters made of sponge titanium wastes. Porosh.met. 4 no.4:86-90 Jl-Ag '64. (MIRA 18:8)

1. Institut problem materialovedeniya AN UkrSSR, Zaporozhskoye otdeleniye.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

POPOV, V.A. inzh.; SEMENOV, Yu.N., inzh.

Testing the performance of new stoping units with auger cutters-loaders in the Moscow Basin. Ugol' 40 no.8:53-57 Ag '65. (MIRA 18:8)

1. Podmoskovnyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 61076-65 EWP(k)/EWP(z)/EWA(c)/EWT(d)/EWT(m)/EWP(i)/EWP(b)/T/EWA(d)/EWP(e)/EWP(v)/
ACCESSION NR: AP5018280 EWP(t)/EWP(h) Pf-4 UR/0226/65/000/007/0108/0111
MJW/ JD/HM

43
39
B

AUTHOR: Semenov, Yu. N.; Kondratov, I. Ya.; Semenov, R.A.
44,55 44,55 44,55

TITLE: Application of current-conducting powder composition on metal parts by roll welding and rolling

SOURCE: Poroshkovaya metallurgiya, no. 7, 1965, 108-111

TOPIC TAGS: metal powder application, seam welding, metal powder rolling, electro-conductive powder

ABSTRACT: A method was developed for applying powder compositions to metal parts by electric roll welding and rolling on of the powder. The welding and rolling of the compositions on steel strips and rings were carried out on an MShP-150 roll welder. Parts of 10 KP steel were plated with compositions of the following compositions: (1) 72% Cu, 9% Pb, 8% Sn, 4% Fe, 7% graphite; (2) 80% Cu, 10% Pb, 10% graphite; (3) 70% Cu, 30% Pb; (4) 88% Cu, 12% graphite. Prior to the application of the powder, the steel surface was copper-plated electrolytically. The powder-metal layers obtained adhered well to the steel base. A further increase in the strength of adhesion to steel was achieved by additional cold rolling and sintering. The mechanical properties and adhesion of the powder-metal layers were as good as those of layers obtained by standard methods.

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 61076-65

ACCESSION NR: AP5018280

Experiments with ferromagnetic powders were unsuccessful because the powder came off the steel specimen under the influence of an alternating magnetic field created by the passage of current from one roll to the next. The use of direct-current units is recommended for the welding and rolling of ferromagnetic powders on metal parts. The proposed process is highly reproducible and can be readily automated. "M.N. Khovik, V.F. Semisinov, L.T. But, and V.V. Kripak participated in the work." Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 20Aug64 ENCL: 00 SUB CODE: MM, IE

NO REF SOV: 003 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

FRANTSEVICH, I.N.; GNESIN, G.G.; SEMENOV, Yu.N.; BORODULIN, P.Ya.; ANTIPIN, L.N.; VAZHENIN, S.F.; MAKSIMENKO, V.M.; MASHNITSKIY, A.A.

Lining material for aluminum electrolytic cells. TSvet. met. 38 no.6:49-54 Je '65. (MIRA 18:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

2

L 4942-66 EWT(d)/FBD/FSS-2/EWT(1)/EEC(k)-2/EWA(d)/T-2 GW/WS-2/WR

ACC NR: AP5025696 SOURCE CODE: UR/0286/65/000/018/0044/0044

AUTHORS: Brodovskiy, V. N.; Vvedenskiy, V. A.; Voronin, N. N.; Moiseyev, I. G.; Pogozhev, I. I.; Semenov, Yu. N.; Yakimenko, N. M.

ORG: none

TITLE: A device for controlling a radio telescope in azimuthal mounting. Class 21, 174689 [announced by Organization of the State Committee for Defense Engineering SSSR (Organizatsiya gosudarstvennogo komiteta po oboronnoy tekhnike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 44

TOPIC TAGS: azimuth, radio telescope, telescopic equipment, tracking telescope, tracking system, tracking, tracking computer

ABSTRACT: This Author Certificate presents a device for controlling a radio telescope in an azimuthal mounting. The device contains an input unit for the reference data in the equitorial coordinate system and electric following drives for turning the radio telescope in azimuth and elevation angles. The reliability and precision of tracking are increased. The unit contains a digital computer. The output of the elevation angle and azimuth angular mismatch are connected via

Card 1/2 UDC: 621-503.53:522.61

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 4942-66
ACC NR: AP5025696

memory registers and groups of amplifiers to the input of code-to-voltage converters. The second input of these converters, via a second group of amplifiers and corresponding memory registers, is connected to the outputs of the azimuth and elevation angle data speeds of the digital computer. The third input of the converters is connected to tachogenerators. These tachogenerators are mechanically connected to the azimuth and elevation angle axes of the radio telescope. To broaden the operating range of the azimuth angle pickup when the radio telescope passes from the clearly defined range, the output of an azimuth code correction selsyn is connected to the digital computer. This azimuth code correction selsyn is mechanically connected to the azimuth axis and is mounted on the turning circle, increasing the operating range of the radio telescope.

SUB CODE: DC, OP/ SUBM DATE: 25Jul64

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 20751-66 EWA(h)/EWP(c)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/ETC(m)-6/ETC(f)/EWG(m)/T/EWP(1) EWP(e)/EWP(v)/EWP(t) AT/WH/JD/HW/JG

ACC NR: AP6009625 IJP(c) SOURCE CODE: UR/0182/66/000/003/0001/0003

AUTHOR: Zhivov, L. I.; Semenov, Yu. N.; Skornyakov, Yu. N.; Shmakov, G. S.

ORG: none

52
51
B

TITLE: Investigation of hot compacting and extrusion of sintered copper-boron nitride alloy

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 3, 1966, 1-3

TOPIC TAGS: copper alloy, boron nitride containing alloy, alloy compacting, hot compacting, sintered alloy, alloy extrusion

ABSTRACT: Electrolytic copper powder PM-2 mixed with 1, 2, 3, 4, or 5% boron nitride was compacted under 4 t/cm^2 pressure into briquettes 38 mm in diameter and 30 mm high. Briquettes were sintered at 920C for 2 hr in ammonia gas and extruded at 700, 800, or 900C to 12, 16, and 20 mm in diameter, i. e., with respective extrusion ratios ε = 2.41, 1.87, and 1.39. With these reductions the bars had a density of 98%. Lower reduction (ε = 1.2) produced bars with 95% density, whose electric conductivity was found to be lower. Examination of the microstructure and hardness tests of alloys annealed at 300—800C showed that recrystallization of copper-boron nitride alloys procedes much slower than that of copper. Sintered copper underwent a complete recrystallization in two hours at 800C, while copper-boron nitride alloys still had the deformation texture. The alloys with a high content of boron nitride require a high

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 20751-66

ACC NR: AP6009625

extrusion pressure. This can be explained by the recrystallization delaying effect of the dispersed boron-nitride phase. High-quality extrusions from this alloy can be obtained by extrusion at 820—880C with ratios of at least 2.0 for alloys with 2% boron nitride, or at least 2.4 for alloys with 2—5% boron nitride. Orig. art. has: 3 figures. [ND]

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 4224

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV, Yu.P.

Classification of sediments in the modern marine basins.
Inform. sbor. NIIGA no.32:29-32 '62. (MIRA 16:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

PEREPELKIN, K.Ye.; SEMENOV, Yu.P.; BASKAKOVA, G.V.

Studying the processes of swelling and washing of polyvinyl alcohol. Khim. volok. no.4:10-14 '64. (MIRA 18:4)

1. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Perepelkin). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyannogo volokna (for Semenov, Baskakova).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV, Yu.P.

Mineralogical composition of bottom sediments in the East Siberian and Chukchi Seas. Uch. zap. NIIGA. Reg. geol. no.4:231-239 '64. (MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

ROMANENKO, P. N.; SEMENOV, Yu. P.

"Friction and heat transfer in a turbulent boundary layer over a permeable surface with the injection of liquids and gases."

report submitted for 2nd All-Union Conf on Heat & Transfer, Minsk, 4-12 May 1964.

Moscow Wood Technology Inst.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 11654-66 EWT(m)/EWT(1)/EWP(e)/EWP(m)/ETC(F)/EPF(n)-2/EWG(m)/EWP(v)/EWP(j)/EWP(b)/
EWA(c)/ETC(m)/EWA(1) RPL IG/WW/RM/WH

ACC NR: AP6002006 SOURCE CODE: UR/0170/65/009/006/0816/0833

AUTHOR: Romanenko, P. N.; Kharchenko, V. N.; Semenov, Yu. P.

ORG: Institute of wood technology, Moscow (Lesotekhnicheskiy institut)

TITLE: The effect of coolant injection on heat transfer and friction in the turbulent boundary layer

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 6, 1965, 816-833

TOPIC TAGS: heat transfer, cooling, transpiration cooling, nozzle cooling

ABSTRACT: One of the most effective means for protecting walls from the effect of high temperature gases is transpiration cooling effected by injection of liquids or gases through the porous wall into the boundary layer. This subject is reviewed in the present survey article which covers a total of 86 studies including 35 Soviet works. Cases with chemical reaction in the boundary-layer are not considered. Among the Soviet studies reviewed, the following articles deserve mentioning: Three theoretical studies by Motulevich, in which transpiration cooling is analyzed and the integration of the boundary layer equations is attempted. Kutateladze presented analyses, made with the assumption that the sublayer is destroyed and that boundary layer conditions are similar to those at an infinite Reynolds number. These studies yielded relationships for the friction and heat transfer coefficients as a function of the intensity of the coolant injection. Romanenko studied the injection of air,

Card 1/2 UDC 532.526+536.24

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 11654-66

ACC NR: AP6002006

helium, carbon dioxide, and freon-10 into a subsonic turbulent boundary layer on a porous copper plate experimentally. Mugalev's studies with the injection of air and other gases through a porous plate into a sub- or supersonic air stream included methods for calculating the heat and mass transfer. Sergeev studied the intensification of heat transfer by use of coolants, such as water, acetone, benzene, and butanol, which evaporate. Equations for calculating the heat and mass transfer during the evaporation of liquids from porous ceramic plates were derived. Isachenko studied cooling by injecting water through a porous copper plate, and Fedorov measured velocity and temperature fields when water is injected through a porous ceramic plate. [PV]

Orig. art. has: 5 figures and 20 formulas.

SUB CODE: 01/ SUBM DATE: 16Jul65/ ORIG REF: 040/ OTH REF: 046/ ATD PRESS: 4175

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 16159-66 EWT(1)/EWT(m)/ETC(F)/EPF(n)-2/EWG(m)/T WW/JW/DJ/WE/GS

ACC NR: AT6006914 SOURCE CODE: UR/0000/65/000/000/0280/0289

AUTHOR: Romanenko, P. N.; Semenov, Yu. P.

ORG: Moscow Forestry-Engineering Institute (Moskovskiy lesotekhnicheskiy institut)

TITLE: Friction and heat transfer in the turbulent boundary layer on a permeable surface during the injection of liquids and gases

SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvii tel s potokami zhidkostey i gazov (Heat and mass transfer. v. 2: Heat and mass transfer in the interaction of bodies with liquid and gas flows). Minsk, Nauka i tekhnika, 1965, 280-289

TOPIC TAGS: transpiration cooling, cooling, heat transfer, skin friction

ABSTRACT: A study was made of the effect of fluid injection through a porous plate on the skin friction and heat transfer in the boundary layer. The experiments were conducted with water, ethanol, glycerin, air, helium, argon, freon-12, and an air—freon-12 mixture, which were injected through a porous copper plate into a rectangular duct in which air at 500—625K was flowing at speeds of 15—80 m/sec. The gas and the wall temperatures and the boundary layer parameters

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 16159-66

ACC NR: AT6006914

were determined to obtain velocity and temperature profiles in various cross sections. Plots of St/St_0 (St is the Stanton number under actual conditions and St_0, the Stanton number without injection) vs. a dimensionless injection parameter showed that the injection of liquids, e.g., of water, is as effective as the injection of gases, e.g., helium or hydrogen. Therefore, the wall temperatures can be efficiently reduced by injecting small amounts of liquids. The latter finding is in contrast to previous conclusions claiming that at low liquid injection rates the heat flux to the wall increases. Orig. art. has: 9 formulas and 2 figures. [PV]

SUB CODE: 20/ 21/ SUBM DATE: 09Nov65/ ORIG REF: 004/ OTH REF: 007/ ATD PRESS: 4204

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 28986-66 EPF(n)-2/EWT(m)/ETC(f)/EWG(m)/EWP(t)/ETI IJP(c)

ACC NR: AP6001792 SOURCE CODE: UR/0089/65/019/006/0

AUTHOR: Kaminker, D. M.; Konoplev, K. A.; Semenov, Yu. P.; Trenin, V. D.

ORG: Physicotechnical Institute im. A. F. Ioffe of AN SSSR (Fiziko-tekhnical institut AN SSSR)

TITLE: Reduction of radioactive discharges into the atmosphere and investigation of water deaeration conditions in the primary loop of VVR-M reactor

SOURCE: Atomnaya energiya, v. 19, no. 6, 1965, 517-521

TOPIC TAGS: nuclear research reactor, nuclear reactor technology, nuclear reactor component, isotope/VVR-M nuclear reactor

ABSTRACT: The design and the two-year operation of the closed deaeration loop of the VVR-M reactor are discussed. The reactor was installed at the Physicotechnical Institute im. A. F. Ioffe. The experience with this reactor disclosed that radioactive discharges into the atmosphere from experimental holes and hot channels were unimportant in comparison with the radiolytic and gas discharges from the deaerator. It was mentioned that the Ar-41 isotope was the main product of the bombardment of the air by neutrons. The radioactive gas discharge was reduced by using a closed deaeration system for removing and burning detonation gas. The gas from the deaerator being preheated in a 10-kw heater was delivered to a 7-liter platinum catalyzer where a slow buring process

UDC: 621.039.586:539.16.04

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 28386-66

ACC NR: AP6001792

7

of gas took place. The hydrogen-free air was then cooled to 25 C in a condenser and returned back to the deaerator. The system was illustrated by a diagram. The discharged oxygen-hydrogen gas was not of an explosive nature. Removal of hydrogen dissolved in the water of the primary loop was considered. It was shown that the amount of detonation gas or hydrogen from the loop interconnections and from the reactor water surface was relatively small. An additional amount resulted from the effect of radiolysis and recombination processes. The effect of water temperatures upon the hydrogen contents in the air was investigated and graphically illustrated showing the hydrogen decrease with the increase in temperature. The amount of hydrogen increased with the reactor power capacity only up to a certain limit. This is explained by the effect of gas recombination. All these physical and chemical factors were discussed and a conclusion was drawn that not all hydrogen was removed from the water of the primary loop. It is stated, however, that the use of a closed deaeration loop and the burning of detonation gas reduced the discharge of radioactive gases into the atmosphere more than ten times. The closed loop was designed and constructed by E. N. Babulevich, V. V. Goncharov and Yu. G. Nikolayev. Gratitude is expressed to these members of Physicotechnical Institute as well as to E. A. Volkhonskiy, B. S. Razov, V. A. Solov'yev and I. K. Yursha for their advices given on this subject. Orig. art. has: 8 figures.

SUB CODE: 18 / SUBM DATE: 16Feb65 / ORIG REF: 003 / OTH REF: 002

Card 2/2 NC

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 33028-66 EWT(1)/EWP(m)/EWT(m)/EWP(j) RM/WW

ACC NR: AP6014400 SOURCE CODE: UR/0096/66/000/001/0080/0083

UTHOR: Romanenko, P. N. (Doctor of technical sciences, Professor); Semenov, Yu. P. (Engineer)

53

B

RG: Moscow Wood Technology Institute (Moskovskiy lesotekhnicheskiy institut)

ITLE: Effect of transverse mass flow on heat transfer in turbulent low past a flat porous surface

OURCE: Teploenergetika, no. 1, 1966, 80-83

OPIC TAGS: convective heat transfer, turbulent flow

BSTRACT: The article gives the results of an experimental investigation of heat transfer in turbulent flow past a porous plate, with feeding of air, helium, argon, and Freon-12 into the boundary layer. The experimental apparatus consisted of a thermally insulated channel of rectangular cross section, in the lower wall of which was inserted a copper plate with a porosity of 35%. The dimensions of the plate were 280 x 130 x 10 mm. The length of the working section was 400 mm and the dimensions of the rectangular section were 155 x 80 mm. During the experiment, the following quantities were measured: the

UDC: 536.24

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

L 33028-66

ACC NR: AP6014400

frictional parameters of the air flow in front of the experimental section, the distribution of the static pressure along the length of the section, the temperature of the plate at nine points on the upper surface and nine points on the lower surface, the dynamic pressure and the flow temperature at five cross sections, and the temperature and flow rate of the cooling medium at the inlet to the working section. The heat transfer coefficient was determined from the integral energy relation and from the heat balance equation. The results are shown in a series of curves. Agreement of the experimental and calculated values is not bad, although there is a certain deviation of the experimental data toward the side of an increase in heat transfer. Although the molecular weight of argon is greater than that of air, its injection lowers the heat transfer coefficient somewhat more significantly than injection of air. Orig. art. has: 7 formulas and 7 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 009

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV, Yu.S.

Statistical data on the incidence of angina among workers in the Krasnoye-on-Volga Combine. Sov.med. 24 no.12:122-126 D '60. (MIRA 14:3)

1. Iz Kineshemskoy gorodskoy bol'nitsy No.3 (glavnyy vrach Z.D. Kul'pova) i kafedry bolezney ukha, gorla i nosa (zav. - prof. K.G. Borshchev) Ivanovskogo meditsinskogo instituta.
(KRASNOYE-ON-VOLGA—TONSILS—DISEASES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

KONCHALOVSKAYA, Natal'ya Petrovna; SEMENOV, Yulian Semenovich; PODKOPAYEVA, Ye.M., otv.red.; MOLOKANOVA, N.A., tekhn.red.

[China, how do you do!] Chzhungo, nin' khao! Moskva, Gos.izd-vo detskoi lit-ry M-va prosv.RSFSR, 1959. 106 p.

(MIRA 13:12)

(China--Description and travel)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

Semenov, Yu. S.

25(1) PHASE I BOOK EXPLOITATION SOV/2931

Konferentsiya po voprosam rascheta, konstruirovaniya i issledovaniy zubchatykh peredach i peredach gibkoy svyaz'yu. Odessa, 1957

Raschet, konstruirovaniye i issledovaniye peredach; trudy konferentsii..., vyp. 3 (Design, Construction, and Analysis of Transmissions; Transactions of a Conference on Problems in Design, Construction, and Analysis of Gears and Flexible Transmissions, No. 3) /Odessa/ Izd. Odesskogo politekhn. in-ta, 1959. 124 p. 3,000 copies printed.

Sponsoring Agencies: Odesskiy politekhnicheskiy institut, and Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Odesskoye oblastnoye pravleniye.

Ed.: I. P. Nikiforov, Engineer; Editorial Board: L. S. Borovich, Candidate of Technical Sciences; M. S. Belyayev, Engineer; K. I. Zablonskiy, M. D. Genkin, Candidate of Technical Sciences; P. S. Zak, (Resp. Ed.) Candidate of Technical Sciences, Ya. G. Kist'yan, Candidate of Technical Sciences; V. N. Kudryavtsev, Doctor of Technical Sciences; N. P. Mal'tsev, Candidate of Technical Sciences; M. S. Polotskiy, Candidate of Technical Sciences; and L. B. Erlikh, Candidate of Technical Sciences; Tech. Ed.: A. R. Komissarenko.

PURPOSE: This book is intended for design engineers in the machine-building and automotive industries, particularly gear designers.

COVERAGE: The technical papers contained in this book were originally presented at a conference on gear design held in Odessa in 1957. A number of papers deal with the causes of failure in modern gear drives under such severe service conditions as seizing and jamming. To determine these causes a study was made of the wear resistance of contact surfaces and the rigidity of gear teeth under load. Various gear drives and systems of engagement, including the Novikov-type gears, which are claimed to have many superior characteristics, and the double-enveloping type of worm gear drive are compared. A study is made of the rigidity of gear drives, particularly the rigidity of splined gear-to-shaft joints. A number of gear testing methods and devices are also listed. No personalities

Grishel', I. N. Load-bearing Capacity of a Gear System by M. L. Novikov 41

Frenkel', I. N. Experimental Determination of the Rigidity of 30-degree Spur Gear Teeth 49

Grekov, G. M., and V. P. Mal'tsev. Method of Gear Testing on a Roller Machine 57

Semenov, Yu. S. Study of Gear Wear of Reduction Mechanisms in Electric Rock Drills 65

Murashko, V. P., and K. I. Zablonskiy. Contact Wear Resistance of Heavily Loaded Gears With Stepped Load Increase 73

Kuznetsov, A. P. Study of the Rigidity of Certain Elements of Automobile Transmissions 85

Teteryachenko, V. G. Design of Teeth for the M. L. Novikov Gear Train and Some Special Features of Composite Gear Drives 91

Tsfas, B. S. Relationship Between Load Distribution in a Splined Joint of a Gear and Shaft and the Rigidity of Components in the Joint 97

Omirov, O. F. Maximum Value of the Coefficient of Overlap in Spur Gear Trains With External Engagement With Straight Involute Teeth and Angular Correction 103

Zablonskiy, K. I. Gear-testing Installation 111

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

YERSHOV, N.N.; SEMENOV, Yu.V.; CHERNYY, A.I.; VOSKOBOYNIK, D.I., redaktor.

[Russian-English dictionary of nuclear physics and engineering] Russko-angliiskii slovar' po iadernoi fizike i tekhnike. Pod red. D.I. Voskoboinika. Moskva, Akademiia nauk SSSR, Institut nauchnoi informatsii, 1955. 349 p. (MLRA 8:10)

(Nuclear physics--Dictionaries)
(Nuclear engineering--Dictionaries)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

VLEDUTS, G.E.; KAFAROV, V.V., red.; LISICHKIN, S.M., red.; MIKHAYLOV, A.I., red.; SEMENOV, Yu.V., red.;

[Scientific information problems in the field of chemistry] Nekotorye voprosy nauchnoi informatsii v oblasti khimii. Moskva, Izd-vo AN SSSR. No.1. [Ways of improving the systematization of chemical indexes] O putiakh usovershenstvovaniia sistematiki khimicheskikh ukazatelei. 1958. 77 p. (Chemistry--Abstracting and indexing) (MIRA 16:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

ACCESSION NR: AT4025437 S/0000/62/000/000/0091/0119

AUTHORS: Tur'yev, I. A.; Galich, Ye. V.; Semenov, Yu. V.; Reznikov, I. P.; Kozlovskiy, B. V.; Oliv, A. G.; Petrov, I. Ya.

TITLE: Laboratory computer for combined operation with simulating unit

SOURCE: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi. Nauchno-tekhnicheskaya konferentsiya. 16th, Leningrad, 1961. Kibernetika i elektronno-vy*chislitel'naya tekhnika (Cybernetics and electronic computer technology); materialy* konferentsii. Moscow, Gosenergoizdat, 1962, 91-119

TOPIC TAGS: computer, optimal control, analog digital computer, computer component, computer technique, computer testing, computer control

ABSTRACT: The laboratory computer is intended for the design and

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investigation of complicated dynamic systems subject to random influences and can also be used as an ordinary high-speed universal computer for the solution of engineering problems. It is designed to be part of an experimental combined simulating installation containing both analog and digital parts. However, the usual analog computer and digital computer shortcomings can be eliminated by using this combined computer by making the analog part operate in real time and the digital computer part to improve the precision of the results. The combined computer can also be used for optimization of dynamic systems. Various other uses of such a combined computer are also proposed. The article headings are: Main operational-technical specifications of the laboratory computer. Overall description of laboratory computer. Distribution of the number-position grid of the computer. List of commands. Block diagram of laboratory computer. Arithmetic unit. Memory unit. Input unit. Printing unit. Central control unit. Random number generator. Control panel. General principles underlying the construction of the

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electric circuit. Time cycle of computer operation. Features of arithmetic unit. Features of control unit. Features of magnetic operative memory. Input and printing units. Random number generator. Power supply. Preventive supervision of computer operation. Experience in the operation of the laboratory computer as a universal computer. Orig. art. has: 12 figures, 4 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 01Sep62 DATE ACQ: 07Apr64 ENCL: 00

SUB CODE: DP NR REF SOV: 000 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

ACCESSION NR: AT4025438 S/0000/62/000/000/0120/0129

AUTHORS: Tur'yev, I. A.; Kozlovskiy, B. V.; Semenov, Yu. V.; Reznikov, I. P.; Oliv, A. G.; Petrov, I. Ya.

TITLE: Vacuum tube high speed multichannel digital analog converter

SOURCE: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi. Nauchno-tekhnicheskaya konferentsiya. 16th, Leningrad, 1961. Kibernetika i elektronno-vy*chislitel'naya tekhnika (Cybernetics and electronic computer technology); materialy* konferentsii. Moscow, Gosenergoizdat, 1962, 120-129

TOPIC TAGS: digital to analog converter, coding, code converter, computer technique, computer converter, digital system

ABSTRACT: The described digital to analog converter is part of a combined digital-analog computing system and is used to interconnect the laboratory computer with the simulating unit. In addition to

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ACCESSION NR: AT4025438

being used for research on automatic control systems containing discrete elements or digital special-purpose machines, it makes it also possible to generate during the course of simulation functions of several variables and to insert the quantities into the simulating unit with high accuracy when called for by the technical specifications. The required conversion accuracy is 0.2--0.5% and is one order of magnitude higher than the accuracy of the simulating unit. The speed of conversion is 50 microseconds per conversion (20,000 conversions per second). There are four channels. Provision is made for the use of 1, 2, or 3 channels with suitable reduction of the total conversion time, and also for a future increase in the number of channels. The digital-analog converter consists of a commutator for the input and output gates, a comparison block, a code-voltage converter, and a conversion control block, all of which are described in some detail, along with the over-all operation of the unit. A total of 115 tubes is used and the consumption is 1 kva. Orig. art. has: 8 figures and 1 table.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

ACCESSION NR: AT4025438

ASSOCIATION: None

SUBMITTED: 01Sep62 DATE ACQ: 07Apr64 ENCL: 01

SUB CODE: DP NR REF SOV: 000 OTHER: 000

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV, Yu.V.

Effect of BK-8 protein blood substitute on the dynamics of the leucocyte quantity in acute radiation sickness in rabbits. Trudy Kiev. nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:137-142 '61. (MIRA 17:10)

1. Kiyevskiy institut perelivaniya krovi.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

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ACCESSION NR: AP5014838 UR/0238/65/011/003/0319/0323

28
27
B

AUTHOR: Semenov, Yu. V.

TITLE: Comparative analysis of relative and absolute erythrocyte indices during acute hypoxia

SOURCE: Fiziolohichnyy zhurnal, v. 11, no. 3, 1965, 319-323

TOPIC TAGS: hypoxia, biological effect, erythrocyte, dog, hemoglobin, erythropoiesis, erythrocytosis

ABSTRACT: Absolute erythrocyte indices can be used to judge the actual change in the respiratory surface of the blood (erythrocytes per 1 mm^3 of blood) during acute hypoxia. Regulation of the functional activity of the erythron at the systemic, cellular, and molecular levels is responsible for changes in the oxygen capacity of the blood during hypoxia. At the systemic level, redistribution of erythrocytes, erythropoiesis, and erythrolysis changes the magnitude of the respiratory surface of the blood. Seventeen experiments were conducted on 10 adult dogs. It was found that acute hypoxia caused a gradually decreasing percentage of oxygen in the supply of gas mixtures for respiration. In only 60% of the experiments did the increase in erythrocyte concentration correspond to the real increase in the respiratory sur-

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face of the blood because of the general decrease (in 13 out of 17 experiments) in the volume of circulating plasma and subsequent relative erythrocytosis. Changes in the absolute number of erythrocytes and the amount of hemoglobin in the blood were nonproportional. It was concluded that during redistribution reactions, the relationship between the number of erythrocytes and the amount of hemoglobin varies, probably because of the smaller than average dimensions of the erythrocytes entering the bloodstream. Therefore, the number of erythrocytes may seem to be unaccountably greater than the increase in hemoglobin. Orig. art. has: 1 table. [JS]

ASSOCIATION: Laboratoriya vikovoyi fiziolohiyi Instytutu fiziolohiyi im. A. A. Bohomol'tsya Akademiyi nauk URSR, Kiev (Laboratory of Developmental Physiology, Institute of Physiology, Academy of Sciences URSR)

SUBMITTED: 05Mar65 ENCL: 00 SUB CODE: LS

NO REF SOV: 005 OTHER: 002 ATD PRESS: 4046

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV, Z. A.

"Cytological Changes in the Case of Jaundice of the Mulberry Silkworm." Sub 5 Mar 51, Moscow State Pedagogical Inst imeni V. I. Lenin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV, Zakhariy Semenovich; MOROZOV, Valeriy Aleksandrovich; DIMENT'YEV, V., red.

[Wages for construction workers] Oplata truda rabochikh v stroitel'stve. Moskva, Mosk. rabochii, 1964. 86 p. (MIRA 18:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, A. P.

SEMENOV-TYAN-SHANSKIY, A.P.; NIKOL'SKAYA, M.N.

Cuckoo flies (Hymenoptera, Chrysididae) of Tajikistan. Trudy Zool. inst. 15:89-137 '54. (MLRA 7:7)
(Tajikistan--Cuckoo flies) (Cuckoo flies--Tajikistan)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, A.P.

System of the tribe Hedychrini Mosc. (Hymenoptera, Chrysididae) and description of new species. Trudy Zool.inst. 15:138-145 '54. (Cuckoo flies) (MLRA 7:7)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

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SEMENOV-TYAN-SHANSKIY, M. D.

Semenov-Tyan-Shanskiy, M. D. "On the problem of landscape Zoning in the North of the Eastern European lowlands," Uchen. zapiski (Leningr. gos. ped. in-t im. Pokrovskogo), Vol. VI, 1948, p. 11-22

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O. I.

USSR/Meteorological Research Jul/Aug 1947
Medicine - Growth

"A Study of the Phenological Process in Murmansk Oblast," O. I. Semenov-Tyan-Shanskiy, 11 pp

"Iz Vsesoyuz Geog Obshchestva" Vol LXXIX, No 4

The author discusses the relationship of climate to the various growing and biological processes of plants and animals in Murmansk Oblast and presents in tabular form the progress of certain biological and climatological factors and their relationship in the Lapland game preserves. This data was taken over a period of ten years.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

NASIMOVICH, A.; NOVIKOV, G.; SEMENOV-TYAN-SHANSKIY, O.

Norwegian lemming; its ecology and role in the natural complex of the Lapland Preserve. Mat. k pozn. fauny i flory SSSR. Otd. zool. no.17:203-262 '48. (MIRA 11:3)

(Lapland Preserve--Lemmings)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SHERNOV-[illegible]-SHANSKIY, O. I.

"Remains of Ungulates in a Gorge in Northern Oseti," Priroda, No. 9, 1948.

VERESHCHAGIN, N. K.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY O. I.

FA 44/49T24

USSR/Biology Mar 49
Mammals
Clethrionomys

"Factors Causing Fluctuations in Clethrionomys (Reddish Field Mice) Populations," O. I. Semenov-Tyan-Shanskiy, A. A. Nashimovich, 3 pp

"Priroda" No 3

In certain years the population of European reddish mice (Clethrionomys glareolus Schreb.) was sharply predominant (1936, 1937, 1940, 1941), while in other years (1938, 1946) the reddish-gray mice (Clethrionomys rufocanus Sund.) were most numerous. European mice were predominant

[redacted] 44/49T24

USSR/Biology (Contd) Mar 49

in years when total mouse population was greatest, while reddish-gray mice were most numerous when total mouse population dropped. On the basis of data obtained, a 4-year cycle of fluctuation is indicated.

[redacted] 44/49T24

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.I.

Effect of light on the light of the snipe. Zool.zhur. 32 no.5:1027-1028 S-O '53. (MLRA 6:10)

1. Zoologicheskiy institut Akademii nauk SSSR. (Snipes)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.I.

Spawning of the lamprey Lampetra japonica kessleri Anikin.
Zool.zhur. 35 no.6:937-938 Je '56. (MLRA 9:10)

1. Pechoro-Ilychskiy gosudarstvennyy zapovednik.
(Lampreys)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.I., kandidat biologicheskikh nauk.

End of winter on the Pechora. Priroda 45 no.3:128 Mr '56.
(MLRA 9:7)

1.Pechero-Ilychskiy zapovednik.
(Pechora Valley--Spring)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.; KNORRE, Ye.

Concerning A.I. Likhachev's article "Adaptive morphofunctional features of the locomotor organs of elks" [with summary in English]. Zool. zhur. 36 no.6:946 Je '57. (MLRA 10:8)
(Elk) (Animal locomotion)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.I.

Conditions for the eclosion of the dragonfly Ophiogomphus cecilia Fourcr. (Odonata, Gomphidae) [with summary in English]. Ent.obozr. 37 no.4:896-899 '58. (MIRA 11:12)

1. Pechoro-Ilychskiy zapovednik.
(Insects--Development) (Pechoro-Ilych Preserve--Dragonflies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

NASIMOVICH, A.A.; SEMENOV-TYAN-SHANSKIY, O.I.

Recent data on river beavers of the Kola Peninsula. Zool.zhur. 38 no.9:1406-1412 S '59. (MIRA 13:1)

1. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii Gostekhniki SSR i Akademii nauk SSSR (Moskva).
(Kola Peninsula--Beavers)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.I.

Studying the nesting behavior of birds by the use of an automatic recording device. Trudy Probl. i tem. sov. no.9:279-286 '60. (MIRA 13:9)

1. Laplandskiy gosudarstvennyy zapovednik.
(Birds—Behavior) (Scientific apparatus and instruments)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, O.I.

Data on the biology and hunting of game birds inhabiting pine forests in the north of the European part of the U.S.S.R. Ornitologiia no.2:104-108 '59. (MIRA 14:7)
(Russia, Northern--Grouse)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN'SHANSKIY, O. I.

Dissertation defended at the Zoological Institute for the academic degree of Doctor of Biological Sciences:

"Ecology of Ptarmigans."

Vestnik Akad Nauk No. 4, 1963, pp. 119-145

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, V.V., FADEYEV, Yu.I., TKACHUK, G.N.

"The Determination of the Hydrodynamic Characteristics of the Lateral Pitching of Marine Transport Vessels on the Basis of Results Obtained in a Series of Tests."

report presented at the 11th Annual Scientific Technical Conference on Ship Theory, organized by the Central Administration of the Scientific-Technical Society of the Shipbuilding Industry, 13-15 December 1960.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN'SHANSKIY V. V.

LUKASHEVICH, Aleksandr Aleksandrovich, kandidat tekhnicheskikh nauk.
GORYANSKIY, Yu.V., redaktor; ALFER'YEV, M.Ya., retsenzent; SEMENOV-TYAN'SHANSKIY, V.V., retsenzent.

[Problems in ship theory] Zadachnik po teorii korablia. Leningrad, Gos. izd-vo vodnogo transporta, 1954. 259 p. (MLRA 7:11)
(Naval architecture--Problems, exercises, etc.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

PALLADINA, Ol'ga Mikhaylovna; SEMENOV-TYAN-SHANSKIY, V.V., d-r tekhn. nauk, prof.; red.; KAPLANSKIY, Ye.F., red.; TSAL, R.K., tekhn.red.

[Ship theory; a bibliography of literature in Russian from 1774 to 1954] Teoriia korablia; ukazatel' literatury na russkom iazyke za 1774-1954 gg. Sost. O.M.Palladina. Pod red. V.V. Semenova-Tian-Shanskogo. Leningrad, Gos.soiuznoe izd-vo sudostroit. promyshl., 1957. 370 p. (MIRA 11:1)

1. Nauchno-tekhnicheskoye obshchestvo sudostroitel'noy promyshlennosti. (Bibliography--Ships)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SOV/124-58-11-12679

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 106 (USSR)

AUTHOR: Semenov-Tyan-Shanskiy, V. V.

TITLE: A Static-stability Diagram for a Ship With Variable Trim (Diagramma staticheskoy ostoychivosti korablya s uchetom menyayushchegosya differenta)

PERIODICAL: Tr. Nauchno-tekhn. o-va sudostroit. prom-sti, 1957, Vol 7, Nr 2, pp 161-170

ABSTRACT: Owing to the asymmetry between the shapes of the bow and stern extremities relative to the plane of the amidships section, there arises a restoring moment in the longitudinal plane normal to the plane of the effective waterline when the ship is inclined by an angle θ. This restoring effect is caused by the trim, measured by the angle ψ, of the ship. Even with large angles of θ the magnitude of ψ is relatively small, so that in stability calculations for large heeling angles ψ is assumed to be constant and the action of the longitudinal moment is disregarded. In order to introduce a refinement into the computation of the static-stability diagram of a ship, the author proposes formulas that permit calculating the variation in trim angle ψ and in the

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

A Static-stability Diagram for a Ship With Variable Trim SOV/124-58-11-12679

lateral restoring moment for large heeling angles θ and in the absence of any external moment that might hinder any changes in the angle ψ. The following details are employed in the derivation of the formulas: The construction of the Chebyshev hull, determination of the bow and stern ordinates of the waterline by the Krylov-Dargny method, and the mathematical devices employed in the study of small inclinations of ships. The author provides methods and tabular forms for the computation of the static moments of the volumes, the moments of inertia of the waterline area projections, the restoring moment, the corrected moments of static stability, and the trim angles. It is shown that the degree of accuracy of the proposed methods at large heeling angles remains to be elucidated through an accumulation of design data.

V. B. Dragomiretskiy

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, Vladimir Veniaminovich. Prinimal uchastiye GLOTOV, V.K., kand.tekhn.nauk; FIRSOV, G.A., nauchnyy red.; OSVENSKAYA, A.A., red.; FRUMKIN, P.S., tekhn.red.

[Statics and dynamics of ships; buoyancy, stability, and launching theories] Statika i dinamika korablia; teoriia plavuchesti, ostoichivosti i spuska. Izd.2., perer. i dop. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1960. 576 p. (MIRA 14:2)

1. Kafedra teorii korablya Leningradskogo korablestroitel'nogo instituta (for Glotov).
(Naval architecture)
(Ships--Launching)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYANSHANSKIY, V.V., doktor tekhn.nauk; DORIN, V.S., kand.tekhn.nauk

Problems of ship reserve buoyancy and stability examined at the Conference on the Revision of the International Convention of 1948 on the Protection of Human Life at Sea. Sudostroenie 28 no.5:1-4 My '62. (MIRA 15:7)
(Lifesaving—Congresses) (Stability of ships)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYANSHANSKIY, V. V.

"On resonance in linear and nonlinear ship vibrations"

report to be submitted for the East German Chamber of Technology shipbuilding Engineering Fall Meeting, ROSTOCK, East Germany , 22-23 Oct. 63

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

BLAGOVESHCHENKIY, S., doktor tekhn.nauk, prof.; VOZNESENSKIY, A., kand.tekhn. nauk; VOYTKUNSKIY, Ya., kand.tekhn.nauk, dotsent; GERASIMOV, A., kand.tekhn.nauk, dotsent; GRECHIN, M., kand.tekhn.nauk; DORIN, V., kand.tekhn.nauk; DOROGOSTAYSKIY, D., doktor tekhn.nauk; KOSOUROV, K., doktor tekhn.nauk, prof.; KRIVTSOV, Yu., kand.tekhn.nauk; MURU, N., kand.tekhn.nauk, dotsent; SEMENOV-TYAN-SHANSKIY, V., doktor tekhn. nauk, prof.; SOLOV'YEV, V., kand.tekhn.nauk, dotsent; TOPORKOV, I., inzh.; FIRSOV, G., doktor tekhn.nauk, prof.; FISHER, A., inzh.; KHRUSTIN, V., kand.tekhn.nauk, dotsent; EYDEL'MAN, D., inzh.

Concerning P.Khokhlov's article "Determining the center of gravity of a vessel during an inclining experiment with trim difference." Mor. flot 23 no.5:33-34 '63. (MIRA 16:9)
(Stability of ships)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-TYAN-SHANSKIY, V. V. (Leningrad

"Die Anwendung der energetischen Methode zur Losung einer nichtlinearen Schwingungsgleichung von Duffing."

report submitted for 3rd Conf on Nonlinear Oscillations, E. Berlin, 25-30 May 64.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

VOYEVODIN, Nikolay Fedorovich; SEMENOV-TYAN-SHANSKIY, V.V., prof., doktor tekhn. nauk, retsenzent; SUKACHEVA, Ye.V., kand. tekhn. nauk, nauchn. red.; LISOK, E.I., red.

[Effect of cargo loading on the stability of ships] Vliianie priema gruza na ostoichivost' sudna. Leningrad, "Sudostroenie," 1964. 165 p. (MIRA 17:5)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOV-ZHUKOV, T. T.

USSR/Engineering Jul 48
Lumbering
Loading Equipment

"Performance of the Karavayev and Kheyfets Timber-Loader," T. T. Semenov-Zhukov, Engr, 2½ pp

"Mekh Trud i Tyazh Rabot" No 7

Simple loading device operates on a power take-off from ZIS-5 and ZIS-21 trucks modified for lumber industries. Gives basic characteristics and performance figures. Photograph shows equipment in action. In recent performance tests, the equipment loaded an average 930 cu m of lumber every 10 minutes.

33/49T48

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOVA, A. (UA9DA - Sverdlovsk); BASSINA, M. (UB5KBA - L'vov); BESSONOVA, V. (UA4KSA - Yoshkarola); KOROTKOVA, G. (UA1KAI - Leningrad); NAYDENOVA, M. (UB5TU - Dnepropetrovsk); LYNDINA, I. (UA4KHA - Kuybyshev); OSIDZE, L. (UF6YL - Tbilisi); ZAYNULINA, S. (UI8KAA - Tashkent); SHCHEKOLDINA, A. (UB5GS - L'vov)

YL replies to our inquiries. Radio no.3:14-15 Mr '62. (MIRA 15:3)

(Radio operators)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

KONONOV, N.A.; SEMENOVA, A.A.; GRUND, F.F.

Regeneration of spent acids and neutralization of acid in a naphthalene plant. Koks i khim. no.9:51 '63. (MIRA 16:9)

1. Kemerovskiy koksokhimicheskiy zavod.
(Naphthalene) (Acids, Inorganic)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

TISHCHENKO, D.V.; KISLITSYN, A.N.; ZAGARMISTR, O.S.; Prinimali uchastiye: VAPYSHEVA, K.M., mladshiy nauchnyy sotrudnik; MITRYAKOVA, L.Kh.; SEMENOVA, A.A., mladshiy nauchnyy sotrudnik

Using phenylic acids of wood tar pitch as raw material for obtaining viscosity reducers. Sbor.trud.TSNILKHI no.14:46-52 '61. (MIRA 16:4)

1. Starshiy tekhnik laboratorii drevesnykh smol TSentral'nogo nauchno-issledovatel'skogo i proyektnogo instituta lesokhimicheskoy promyshlennosti (for Mitryakova). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy tekhniki (for Semenova).

(Wood tar) (Phenols)
(Chemical tests and reagents)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

YERMOL'YEVA, Z.V.; KRASNOVA, I.N.; GLADKOVA, N.V.; SEMENOVA, A.D.

Study of the effectiveness of polymyxin M in dysentery in an experiment and in the clinic. Antibiotiki 6 no.11:964-968 N '61. (MIRA 15:3)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey, detskaya bol'nitsa No.4 (glavnyy vrach Z.I. Sleto) Leningradskogo rayona Moskvy.
(DYSENTERY) (POLYMYXIN)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOVA, A.D.; KHOMCHENKO, G.P.; PLETYUSHKINA, A.I.; VOVCHENKO, G.D.

Reduction and electroreduction of organic substances on a platinized platinum. Part 1: Behavior of allylbenzene, propenylbenzene, and α-methylstyrene on a surface of platinum electrode. Vest.Mosk. un. Ser.2:khim. 17 no.1:49-54 Ja-F '62. (MIRA 15:1)

1. Moskovskiy gosudarstvennyy universitet, kafedra obshchey khimii.
(Benzene) (Styrene) (Electrodes, Platinum)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOVA, A. D.; KHOMCHENKO, G. P.; VOVCHENKO, G. D.

Reduction and electroreduction of organic substances on platinized platinum. Part 2: Effect of the composition of electrolyte on the catalytic reduction of allylbenzene. Vest. Mosk. un. Ser. 2: Khim. 16 [i.e.17], no.6:51-54 N-D '62. (MIRA 16:1)

1. Kafedra obshchey khimii Moskovskogo universiteta.

(Benzene) (Reduction, Electrolytic)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

LEVINA, M.Ye.; SEMENOVA, A.D.

Heats of solution of various modifications of sodium fluoberyllate (Na_2BeF_4). Vest.Mosk.un. Ser.2:Khim. 18 no.6:55-58 N-D '63. (MIRA 17:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOVA, A.D.; FEDOTOVA, T.G.; KHOMCHENKO, G.P.

Effect of poisons on hydrogen adsorption by iridium in the presence of electrolytes. Vest. Mosk. un. Ser. 2: Khim. 20 no.6:47-49 N-D '65. (MIRA 19:1)

1. Kafedra obshchey khimii Moskovskogo universiteta. Submitted April 5, 1965.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

6(7) SOV/111-59-9-16/31

AUTHOR: Semenova, A.F., Chief of the Control Service

TITLE: Incorrect Original Transmission of Telegrams Causes Defects in the Operation of the Telegraph Office

PERIODICAL: Vestnik svyazi, 1959, Nr 9, pp 22-23 (USSR)

ABSTRACT: This article deals with the problem of incorrect original transmission of telegrams, and measures taken at the Leningradskiy telegraf (Leningrad Telegraph Office) to decrease the number of such mistakes. The author discusses the problem of incorrect original transmission of telegrams at points of origin, particularly with regard to use of the proper procedures for indicating beginning and end of the telegram, illustrating the consequences of improper procedure with several examples, (Table 1). He states that each provincial telegraph office should bear the responsibility for the quality of telegram transmission in municipal communications sections and provincial

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SOV/111-59-9-16/31

Incorrect Original Transmission of Telegrams Causes Defects in the Operation of the Telegraph Office

districts, and outlines measures taken at the Leningrad Telegraph Office for elimination of errors in telegram transmission, and the results of these measures. There is 1 table.

ASSOCIATION: Leningradskiy telegraf (Leningrad Telegraph Office)

Card 2/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

PANOV, A.G.; ZINCHENKO, A.P.; SEMENOVA, A.F.

Clinical aspects and pathomorphology of subacute progressive leukoencephalitis. Zh. nevropat. psikhiat. Korsakov 63 no.3: 321-329 '63 (MIRA 17:1)

1. Kafedra nervnykh bolezney Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova, Leningrad.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

ACC NR: AP6025609 (N) SOURCE CODE: UR/0413/66/000/013/0050/0050

INVENTORS: Volkov, S. N.; Makar'in, V. P.; Palevich, K. K.; Rubaylo, G. M.; Gerasimova, L. S.; Ryazantseva, V. M.; Andreyeva, I. I.; Semenova, A. G.

ORG: none

TITLE: A machine for contact spot welding. Class 21, No. 183300

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 50

TOPIC TAGS: welding, spot welding, welding technology, welding equipment

ABSTRACT: This Author Certificate presents a machine for contact spot welding. The machine contains a frame and welding transformers, each of which is electrically connected to a group of welding guns (see Fig. 1). To increase the productivity, the welding transformers together with the corresponding group of welding guns are mounted on the vertical planes of plates which move under the action of a driving mechanism located on the frame. The movement takes place along the horizontal guides also located on the frame. Rods attached to one of the plates serve as auxiliary guides for another plate. These rods are intended for fixing the plates

Card 1/2 UDC: 621.791.763.1.037

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ACC NR: AP6025609

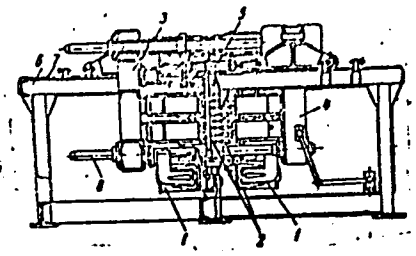

Fig. 1. 1 - welding transformers; 2 - welding guns; 3 and 4 - vertical plates; 5 - driving mechanism for plates; 6 - frame; 7 - guides; 8 - rods

in their original position prior to welding. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 16Jun65

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

DOBATKIN,V.I., kandidat tekhnicheskikh nauk; KRUPENINA,K.N.; SEMENOVA,A.I.

Properties of pressed D16 aluminum alloy shapes depending on heat treatment conditions. Trudy MATI no.23:86-101 '54. (MLRA 8:11)
(Aluminum alloys) (Metals--Heat treatment)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

Semenova, A. I.

Distr: 4E2c

18

Roasting nickel and copper-nickel sulfide mats. O. F. Butts, A. B. Burochkin, S. E. Lyumkis, B. D. Murashev, A. I. Semenova, N. A. Stepanov, L. L. Chermak, and T. S. Shmalenok. U.S.S.R. 107,535, Sept. 25, 1957. The sulfidic product of bessemerization is sepd. into a metalized (large-grain) fraction and a sulfidic (small-grain) fraction each of these is roasted separately in a bubbling layer. In the 1st stages, the roasting is done with preheated air. In the last stage an air-O mixt. is used. To prevent dusting, it is preferable to agglomerate the fine-grained sulfidic fraction prior to roasting. M. Hoseh

9

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

KUROCHKINA, Z.V.; SEMENOVA, A.I.; DOBROVOL'SKAYA, Ye.A.; USTINOV, Ye.Ye.

Food poisoning caused by a Salmonella typhimurium (Breslau) group. Zhur. mikrobiol. epid. i immun. 29 no.11:71-73 N '58. (MIRA 12:1)
(SALMONELLA INFECTIONS, in inf. & child, typhimurium food pois. (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SHRAMENKO, Aleksandra Ivanovna, kandidat meditsinskikh nauk; SEMENOVA, A.I., redaktor; LOKHMATYY, Ye.G., tekhnicheskiy redaktor

[Protection against radium radiation and substitutes for it in institutions using radiotherapy] Zashchita ot izlucheniia radiia i ego zamenitelei v radioterapevticheskikh uchrezhdeniiakh. Kiev, Gos. med. izd-vo USSR, 1956. 30 p. (MIRA 9:12)
(RADIOACTIVITY--SAFETY MEASURES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOVA, A. K.

Thermal Fatigue of Single Crystals of Aluminium. V. I. Arkharov and A. K. Semenova (*Doklady Akad. Nauk S.S.S.R.*, 1952, 83, (5), [illegible] [in Russian]. Thermal fatigue can be connected with the mosaic structure of crystals. A disorientation of neighbouring mosaic blocks implies that at their boundaries there are zones in which the disposition of atoms differs from that in the true lattice, and in which certain soluble impurities can be adsorbed. Hence there are variations in thermal expansion, similar to, but much smaller than, those connected with the intercryst. zones of polycryst. bodies. Al single crystals (20 mm. × 3 mm. in dia.) were prepared by recrystn. of 99·5% Al wire, and were then given cyclic changes of temp., namely heated in a salt-bath (KNO_3–$NaNO_2$ eutectic, at 300°, 400°, or 500° C.) for 6 sec., removed and transferred (2 sec.) into water at 15° C., held there for 6 sec., then transferred back (4 sec.) to the salt-bath. These operations were carried out mech. The changes in structure were observed by taking Laue X-ray photographs at various stages. With $t_{max.} = 500°$ C., the first changes in the fine structure of the Laue spots had taken place by 25 cycles, and then proceeded further. The spots broadened and split up into bands branching in various directions; this indicates that the single crystal undergoes complex local deformation. At lower values of $t_{max.}$, similar changes were observed, but at a greater number of cycles; thus at 300° C. the changes were noticeable after 2000 cycles, and at 8000 cycles the changes had not developed further than for 100–200 cycles at 500° C. Annealing a specimen for 2 hr. at 500° C. after a large number of cycles (2500 at $t_{max.} = 500°$ C. or 8000 at $t_{max.} = 300°$ C.) caused no appreciable change in the fine structure of the spots. The change thus has the character of polygonization. The Laue spots of specimens given 50 cycles at $t_{max.} = 500°$ C. in 15 min. were much more branched and diffuse than those of specimens given the same treatment in 11 hr. Differences were also observed between specimens of Al of different purity given the same cyclic treatment, i.e. the specimens had different mosaic structures.—G. V. E. T.

Ural State U. im. Gor'kiy, Sverdlovsk

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

USSR/Physics - Graph of cooling FD-3044

Card 1/1 Pub. 153 - 13/23

Author : Levin, G. M ; Malkova, E. M.; Semenova, A. K.

Title : Investigation of the character of graphs of simple cooling of bodies

Periodical : Zhur. tekh. fiz., 25, February 1955, 270-279

Abstract : The authors state that the problem concerning the character of the breaks in graphs of cooling has not yet been solved conclusively and their causes have not been completely analyzed. The so called simple cooling of a solid is involved in tests of materials for their heat conduction, in determinations of thermal inertia of measuring instruments, in the finding of heat emission coefficient and other investigations carried out by methods of regular heat regime (G. M. Kondrat'yev, Trudy VNIIM, No 4(59), 1947), leading to the construction of the corresponding semilogarithmic graph $\log\theta = f(t)$, where θ is the difference between the temperature u at a given point of the body and the temperature T of the surrounding medium, and t is the time; this equation becomes the straight line $\log\theta = mt+B$ after the passage of a certain time after the beginning of simple cooling, when a regularization of the process of the variation of the temperature field occurs. The authors discuss the value of the general angular coefficient m and the derivative $N=d(\log\theta)/dt$. They thank G. M. Kondrat'yev. Six references.

Submitted : June 5, 1953

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

USSR/Physics - Thermometry FD-3151

Card 1/1 Pub. 153 - 7/26

Author : Levin, G. M.; Malkova, E. M.; Semenova, A. K.

Title : Investigating the methods for the construction of characteristic curves of thermal inertia

Periodical : Zhur. tekh. fiz., 25, No 9 (November), 1955, 2286-2295

Abstract : The authors study a concrete problem of the thermal inertia of instruments for measuring temperature, in particular mercury-glass thermometers. They conclude that the method of stationary regime employed up til now for determinations of coefficient alpha can give considerable errors in the construction of characteristic curves of thermo-receptors (short cylinders), and that the method of alpha-calorimeter and method of calculation of cooling process of two-composite cylinder of finite length give coincident results which can be considered reliable. The authors consider the present data of their article preliminary to further work. They thank Professor Dr. G. M. Kondrat'yev. Six references: e.g. G. M. Kondrat'yev, Trudy VIMS, No 10 (26), 1936; Trudy VNIIM, No 5 (50), 1941 and No 4 (59), 1947.

Institution :

Submitted : February 8, 1954

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

SEMENOVA, A. K.

AUTHORS: Semenova, A. K., and Gel'd, P. V. 126-2-32/35

TITLE: On the protective effect of chromium during corrosion of Fe-Cr alloys by sulphur vapours. (O zashchitnom deystvii khroma pri korrozii splavov Fe-Cr parami sery).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.2, pp. 378-379 (USSR)

ABSTRACT: According to earlier work of one of the authors (Ref.1), there is reason to assume that a deep analogy exists between the processes of oxide and sulphide corrosion of iron and its alloys, which is attributed to the fact that in both cases the oxidation products are non-stechiometric compounds with inadequate quantities of metal. On the basis of this assumption it was postulated (Ref.2) that, in the same way as during oxidation of Fe-Cr alloys by oxygen (Ref.3), chromium increases the stability of the alloy against sulphide corrosion due to accumulation and formation in the internal layers of the scale of inter-layers which are enriched in the sulphide spinel $FeCr_2S_4$. To verify this experimentally, investigations were made of the kinetics of oxidation of iron alloys with chromium (0 to 19.29% Cr) by means of sulphur vapours (P_{S2} = 50 mm Hg col) and also investigation

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

137-58-6-12851

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 238 (USSR)

AUTHORS: Semenova, A.K., Gel'd, P.V.

TITLE: Effect of Chromium on Sulfide Corrosion of its Alloys With Iron (Vliyaniye khroma na sul'fidnuyu korroziyu yego splavov s zhelezom)

PERIODICAL: Tr. Ural'skogo politekhn. in-ta, 1957, Nr 72, pp 196-206

ABSTRACT: A study of oxidation of Fe-Cr alloys the Cr content of which varied from 0 to 19.2% by S vapors at a vapor pressure of 50 mm Hg at temperatures 500-800°C. It is shown that the rate of corrosion diminishes rapidly with a lowering of temperature and increase of Cr content in the alloy. Small additions of Cr (3-4%) lower the average rate of oxidation by one-third to one-half; an addition of 12-17% increases corrosion resistance 10-20 times. X-ray and chemical examinations and measurement of the electric properties of external and internal layers of sulfide scale have revealed experimentally the analogy of the protective action of Cr against oxidation of alloys with O_2, as well as with S. It is shown that in the process of oxidation of alloys by sulfur the Cr concentrates almost entirely in the

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

137-58-6-12851

Effect of Chromium on Sulfide Corrosion of its Alloys With Iron

interior layer of the scale, forming a sulfide spinel $FeCr_2S_4$ which is structurally similar to $FeCr_2O_4$. With a content of 12.08% Cr in the alloy the interior layer of the scale contains 86% of sulfide spinel which sharply retards the diffusion of the S and Fe atoms, thereby making the alloy more resistant to corrosion. Bibliography: 15 references.

P.S.

1. Chromium-iron alloys--Corrosion 2. Sulfide vapors--Corrosive effects
3. Corrosion--Temperature factors

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137-58-6-12852

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 238 (USSR)

AUTHORS: Semenova, A.K., Gel'd, P.V.

TITLE: Effect of Manganese on Sulfur Corrosion of its Alloys With Iron (Vliyaniye margantsa na sul'fidnuyu korroziyu yego splavov s zhelezom)

PERIODICAL. Tr. Ural'skogo politekhn. in-ta, 1957, Nr 72, pp 207-213

ABSTRACT: The corrosion of Fe-Mn-alloys (with contents of Mn from 0.01 to 15.32%) in vapors of S at 500-800°C has been examined. It was revealed that an increase of Mn to 15% lowers the rate of corrosion of alloys in the 500-800° interval in an approximately linear proportion. The chemical and X-ray analysis of layers of scale showed that with low concentrations of Mn in the alloy, the Mn distributes itself almost uniformly through the entire thickness of the scale. With 6-9% of Mn in the original alloy an accumulation of Mn in the form of MnS takes place in the interior layer of the scale. In high-manganese (15%) alloys the quantities of FeS and MnS contained in the interior layer are commensurate; the comparatively small inhibiting effect on corrosion (one-third at 800° with 15% Mn) is explained by

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Effect of Manganese on Sulfur Corrosion of its Alloys With Iron

the authors by stating that Mn gradually accumulating in the interior layer of the scale forms saturated phases of two types (Mn, Fe) S and (Fe, Mn) S, which are characterized by ready permeability relative to the diffusion of atoms of the metal and the metalloid.

P.S.

1. Iron-manganese alloys--Corrosion 2. Sulfur vapors--Corrosive effects
3. Corrosion--Temperature factors

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820019-4

AUTHORS: Semenova, A. K., Gel'd, P. V. 76-32-5-22/47

TITLE: The Effect of Chromium on the Sulfide Corrosion of Its Iron Alloys (Vliyaniye khroma na sul'fidnuyu korroziyu yego splavov s zhelezom)

PERIODICAL: Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5, pp. 1087-1094 (USSR)

ABSTRACT: The influence of chromium on the oxidation kinetics of its iron alloys in sulfur vapors as well as the structural properties of the tinder formed on this occasion were investigated. From the experimental part can be seen that alloys with from 0 to 19.2% chromium were investigated which were melted in Shteynberg-Gramolin furnaces under the assistance by A. I. Pastukhov. The tests were carried out in a specially constructed vessel while the thermo e.m.f. was measured according to the method by G. D. Fedorov. The determinations of the velocity of corrosion took place at 500, 600, 700 and 800°C with different heating times. It was observed that the corrosion velocity decreases with the temperature drop and the increase of the chromium content, with also a decrease of the tinder layer having been observed. A stronger effect of chromium was noticed only to a content of 4-12%, so that, for in-

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The Effect of Chromium on the Sulfide Corrosion of Its Iron Alloys 76-32-5-22/47

stance, with additions of 12-17% chromium the corrosion resistance increases to the 1o-2o-fold. The x-ray structural and chemical investigations showed that the tinder consists of two different layers the thickness of which changes with the chromium content, with the chromium accumulating in the inner layer and with spinels having been found present. In determinations of the thermo e.m.f. it was observed that the inner layer has a greater activation energy which points at an energetic complicatedness in the charge transfer by the impinging of chromium ions. In evaluating the results the analogy of the oxidation with oxygen and sulfur is stressed, reasoned in detail and explained, and among others it is mentioned that the principle of heat resistance according to V. I. Arkharov (Ref 15) can also be extended to the sulfide corrosion, and that the corrosion resistance of the formation velocity of the spinel protective layer is dependent on a normal lattice parameter. There are 4 figures, 2 tables, and 15 references, 11 of which are Soviet.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova, Sverdlovsk

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The Effect of Chromium on the Sulfide Corrosion of Its Iron Alloys 76-32-5-22/47

(Sverdlovsk, Ural Polytechnical Institute imeni S. M. Kirov)

SUBMITTED: January 25, 1957

1. Chromium iron alloys--Corrosion 2. Sulfur vapors--Corrosive effects

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SEMENOVA, A.K.

24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215

Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva

Referaty nauchno-issledovatel'skikh rabot; sbornik No. 2 (Scientific Research Abstracts; Collection of Articles, Nr 2) Moscow, Standartgiz, 1958. 139 p. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Komitet standartov, mer i izmeritel'nykh priborov.

Ed.: S. V. Reshetina; Tech. Ed.: M. A. Kondrat'yeva.

PURPOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gages for the various industries.

COVERAGE: The volume contains 128 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Commission on Standards, Measures, and Measuring Instruments under the USSR Council of Ministers). The participating institutes are: VNIIM - Vsesoyuznyy nauchno-issledovatel'skiy metrologii imeni D.I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D.I. Mendeleyev) in Leningrad; Sverdlovsk branch of this institute; VNIIK - Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research Institute of the Commission on Standards, Measures, and Measuring Instruments), created from MGIMIP - Moskovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Moscow State Institute of Measures and Measuring Instruments) October 1, 1955; VNIIPTRI - Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy (All-Union Scientific Research Institute of Physicotechnical and Radio-engineering Measurements) in Moscow; KhGIMIP - Khar'kovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Khar'kov State Institute of Measures and Measuring Instruments); and NGIMIP - Novosibirskiy gosudarstvenyy institut mer i izmeritel'nykh priborov (Novosibirsk State Institute of Measures and Measuring Instruments). No personalities are mentioned. There are no references.

Kandyba, V.V., V.Ye. Minkel'shteyn, A.T. Chekirda, and I.A. Rumyantsev (KhGIMIP). Measuring the Free Combustion Temperature of Basic Industrial Fuels 86

Levin, G.M., A.K. Semenova, and V.I. Vol'mir (Sverdlovsk Branch of VNIIM). Studying Characteristic Curves of Thermal Inertia in Thermal Sensing Devices 87

Gomel'skiy, K.Z. (Sverdlovsk Branch of VNIIM). Determining Thermal Capacity of Solids at High Temperatures 87

Levin, G.M., and E.M. Malkova (Sverdlovsk Branch of VNIIM). Studying Methods for Determining Thermal Characteristics of Materials on the Basis of the Theory of Regular Thermal Conditions 89

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KOVALEV, V.Ye.; SEMENOVA, A.K.

Simplified method for determining the active substance in the technical preparations of the 2,4-D and 2,4,5-T esters. Zashch. rast. ot vred. i bol. 6 no.5:32-33 My '61. (MIRA 15:6)
(Herbicides)

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SEMENOVA, A. M.

15(2) SOV/72-58-12-22/23

AUTHOR: Vargin, V.V.

TITLE: Conference on Enamels and Metal Enameling (Soveshchaniye po emalyam i emalirovaniyu metallov)

PERIODICAL: Steklo i keramika, 1958, Nr 12, pp 47-48 (USSR)

ABSTRACT: The organizers of the conference were: Leningradskoye oblastnoye nauchno-tekhnicheskoye obshchestvo promyshlennosti stroitel'nykh materialov (Leningrad Oblast Scientific and Technical Society of the Industry of Building Materials); Leningradskiy sovnarkhoz (Leningrad Council of National Economy) and Leningradskiy tekhnologicheskiy institut imeni Lensoveta (LTI) (Leningrad Technological Institute imeni Lensovet (LTI). The program of the conference included: the most important problems of enamel synthesis, enameling of metal products and industrial apparatus. About 250 experts took part in the conference: representatives from works in the UkrSSR, Ural, Novosibirsk, Ulan-Ude, Kuznetsk, Dzerzhinsk, as well as functionaries of the universities, of the scientific research and design institutes in Leningrad, Moscow, Novocherkassk, Dnepropetrovsk, Sverdlovsk, Riga, Khar'kov, and other towns. More than 40 reports were given and discussed. Professor K.S. Yevstrop'yev, director of the LTI imeni Lensovet, in his opening speech stressed the great economic importance of the problem of enameling metal products and apparatus.

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Ye.I. Litvinova (LTI imeni Lensovet) reported on the influence of metal quality on the formation of "fish-scales" in enameling.

A.A. Appen, Institut khimii silikatov AN SSSR (Institute of Silicate Chemistry of the AS USSR), spoke on the present stage of the problems of calculating the properties of glass and enamels according to their composition.

M.V. Serebryakova (LTI imeni Lensovet) gave a survey of foreign literature on enamels and metal enameling.

M.N. Lifshits, Nauchno-issledovatel'skiy institut sanitarnoy tekhniki (Scientific Research Institute of Sanitary Engineering) reported on the enameling of products in the electric field of a corona discharge.

I.O. Petrunya, Luganskiy zavod imeni Artema (Luganskiy ~~Works~~ Artema) spoke of new types of enameled steel products made in this factory.

Card 2/6

Yu.P. Nikitin, Ural'skiy politekhnicheskiy institut (Ural'skiy Polytechnical Institute) reported on the character of interaction between metals and melted enamels.

N.S. Zaimov, Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (Ural'skiy Scientific Research Institute of Ferrous Metals) reported on the influence of the condition of the steel surface on the formation of the enamel coat.

A.I. Borisenko, Institute of Silicate Chemistry of the AS USSR, spoke on the new method of obtaining thin silicate coats of semi-colloid solutions.

Ye.N. Podkletnov spoke on a new enameling method with heating of the products by high-frequency currents.

P.A. Roshdestvenskiy, Lys'venskiy metallurgicheskiy zavod (Lys'venskiy Metallurgic Works) gave informations on new enamels used by the factory.

T.I. Polyubash, Novosibirskiy metallurgicheskiy zavod (Novosibirskiy Metallurgic Works) reported on the dependence of the moistening angle and the enamel deliquescence on the correlation of boric and non-boric silts.

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