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SOV/146-2-4-4/19

Rectangular Resonator for Measuring the Electric Constants of Dielectrics at Super-High Frequencies

(The Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: July 15, 1959.

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SOV/142-2-3-21/27

9(2,3)

AUTHOR:

Ivanov, A.N., Candidate of Technical Sciences

TITLE:

Theses for Acquiring the Scientific Degree of Candidate of Sciences

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, p 379 (USSR)

ABSTRACT:

R.D. Yukna defended his thesis titled "The Investigation of Some Problems of Electromagnetic Shielding With Screens Commensurable With the Wavelength" (Issledovaniye nekotorykh voprosov elektromagnitnogo ekranirovaniya pri soizmerimyykh s dlinoy volny ekranakh) for acquiring the scientific degree of Candidate of Sciences on October 28, 1958. The thesis was written under the guidance of Professor, Doctor of Technical Sciences S.I. Zilitin-Kevich. The official opponents were Professor L.B. Slepyan and Candidate of Technical Sciences A.N. Ivanov. The material of this thesis was published in Uchenyye zapiski Latviyskogo gosudarstvennogo universiteta, Vol 10, 1957, and Vol 21, 1958, and in Izvestiya AN Latviyskoy SSR, 1958, Nr 9. R.D. Yukna analyzed a substitute circuit for a shielded system. Using this analysis he sug-

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06529

SOV/142-2-2-5/25

24(4)

AUTHOR:

Ivanov, A.N.

TITLE:

An Experimental Method of Calculating the Effect of Coupling Devices on Cavity Resonator Parameters When Measuring Electric and Magnetic Constants of Matter

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 2, pp 172-174 (USSR)

ABSTRACT:

In the existing theory of the resonator method for measuring electric and magnetic constants of matter, the presence of devices for exciting and detecting magnetic fields (coupling devices) in the measuring resonator is not considered. In addition, these devices change the boundary conditions in the skin of the resonator. The volume, occupied by the field, creates an additional attenuation in the resonator, increasing the measuring errors. The problem of considering the influence of coupling devices on the resonator parameters when measuring electric constants (ϵ and $tg \delta$) of a dielectric was discussed in another

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An Experimental Method of Calculating the Effect of Coupling
Devices on Cavity Resonator Parameters When Measuring Electric
and Magnetic Constants of Matter

paper of the author [Ref 1]. There, he also suggested an experimental method of establishing the influence of these devices on the measuring results ϵ and $\text{tg}\delta$ of the dielectric. In this article the author presents an improved version of the aforementioned method, resulting in a high accuracy in measuring electric and magnetic constants of matter with application of the theory explained by the author in [Ref 2]. The author explains this improved version in detail, referring to figure 1. The method may find practical application for measuring electric and magnetic constants of matter at super-high frequencies with an increased accuracy and calibration of measuring resonators. There are 1 diagram and 2 Soviet references.

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SOV/142-2-2-5/25

An Experimental Method of Calculating the Effect of Coupling
Devices on Cavity Resonator Parameters When Measuring Electric
and Magnetic Constants of Matter

This article was recommended by the
Kafedra radiotekhniki Leningradskogo instituta tech-
noy mekhaniki i optiki (Chair of Radio Engineering
of the Leningrad Institute of Precision Mechanics
and Optics)

SUBMITTED: May 19, 1958

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SOV/146-2-5-1/19

9(6)

AUTHOR: Ivanov, A.N., Candidate of Technical Sciences

TITLE: A Review of the Development of Methods and Devices for Measuring the Electric Constants of Dielectrics on Ultrashort Waves ²⁷

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1959, Nr 5, pp 3-12 (USSR)


ABSTRACT: A Brief general historical review is made of foreign and Soviet methods and devices developed between 1886 (Hertz) and the present day. In conclusion, the author refers to his own theory of resonator method [Ref 42] and his suggested experimental method [Ref 43] for determining the errors caused by the connections in the resonator system. This article was recommended by the Kafedra radiotekhniki (Chair of Radio Engineering). There are 4 diagrams, 2 sets of diagrams, and 43 references, of which 5 are German, 

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SOV/146-2-5-1/19

A Review of the Development of Methods and Devices for Measuring
the Electric Constants of Dielectrics on Ultrashort Waves

6 English, and 32 Soviet.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki 
(Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: July 15, 1959

Card 2/2

IVANOV, A.N.; PETROV, A.S.

Measuring the capacitance, inductance, and resistance to spreading of parametric semiconductor diodes in the superhigh frequency range. Izv. vys. ucheb. zav; fiz. no.1:35-38 '63. (MIRA 16'5)

1. Sibirskiy fiziko-tekhnicheskii institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva. (Junction transistors—Electric properties)

IVANOVA, YE. L., IVANOV, A. N.

Plows

Two-way five-share plow for an electric tractor. Sel'khoz mashina No. 3, 1952.

2

9. Monthly List of Russian Accessions, Library of Congress, July 195~~2~~, Unclassified.

IVANOV, A.N., inzhener.

KPIa-I, 0 planting hole digger. Sel'khoz mashina no.11:8-11 N
'54. (MLRA 7:11)
(Agricultural machinery)

NIKIFOROV, P.Ye., doktor sel'skokhoz. nauk; IVANOV, A.N., inzh.

Flows for operating with speeds over nine kilometers per
hour. Mekh. i elek. sots. sel'khoz. 21 no.1:9-10 '63.

(MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii
sel'skogo khozyaystva.

(Flows)

L 47177-56 EWT(m)/EWP(e)/T/SAP(t)/ETI/EWP(R) (N) SOURCE CODE: UR/0226/66/000/009/0081/0083
ACC NR: AP6032301

56
54
B

AUTHOR: Kushtalova, I. P.; Ivanov, A. N.

ORG: Institute of Problems in Material Science, AN UkrSSR (Institut problem materialovedeniya, AN UkrSSR)

TITLE: Plastic deformation of refractory compounds

SOURCE: Poroshkovaya metallurgiya, no. 9, 1966, 81-83

TOPIC TAGS: refractory compound, titanium carbon compound, zirconium carbon compound, titanium boron compound, molybdenum silicon compound, plastic deformation

ABSTRACT: A series of specimens of refractory compounds ^{v1}TiC, ^{v1}ZrC, ^{v1}TiB₂ and ^{v1}MoSi₂ obtained by hot compacting were strain hardened by grinding which significantly increased their microhardness. The microhardness of the strain-hardened compounds ranged from 1060 dan/mm² for MoSi₂ to 2520 dan/mm² for TiC compared to the initial 739 and 2310 dan/mm². Annealing of the hardened compounds brought about recrystallization (see Fig. 1). The ratio of recrystallization temperature T_r to melting temperature T_m was found to vary within 0.48—0.53, which was considerably higher than that for

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ACC NR: AP6032301

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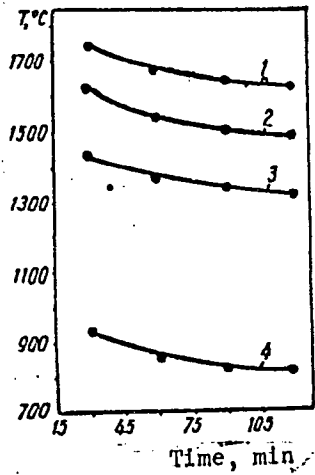


Fig. 1. Dependence of the temperature at which recrystallization commences on holding time for ZrC (1), TiC (2), TiB₂ (3) and MoSi₂ (4).

the pure metals, which varies from 0.3 to 0.4. Orig. art. has: 1 figure and 1 table. [TD]

SUB CODE: 11/ SUBM DATE: 22May66/ ORIG REF: 006/ ATD PRESS: 5091

Card 2/2 blg powder metallurgy 18

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PROCESSES AND PROPERTIES INDEX

2

Dependence of exchange adsorption on dilution. II. R. N. Gaspon and A. N. Kuznetsov. *Colloid J.* (U. S. S. R.) **J.** 443 (1937); cf. *C. A.* **32**, 707. A continuation of previous work. The following systems were investigated, with microgavka chromatem: (1) XCa (100 g.) + CH₃COONa (1 mol. per F l.), (2) XCa (100 g.) + NaCl (1 mol. per F l.) and (4) XH (100 g.) + NaCl (1 mol. per F l.), where X and F are variables. With increase of diln. adsorption decreases for (1) and (2) and increases for (3), in accordance with theory. In case of (4) adsorption increases with diln., contrary to theory. III. R. N. Gaspon and N. I. Gorbunov. *Ibid.* 447 (41). Math. S. I. Malozsky

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNONYMS

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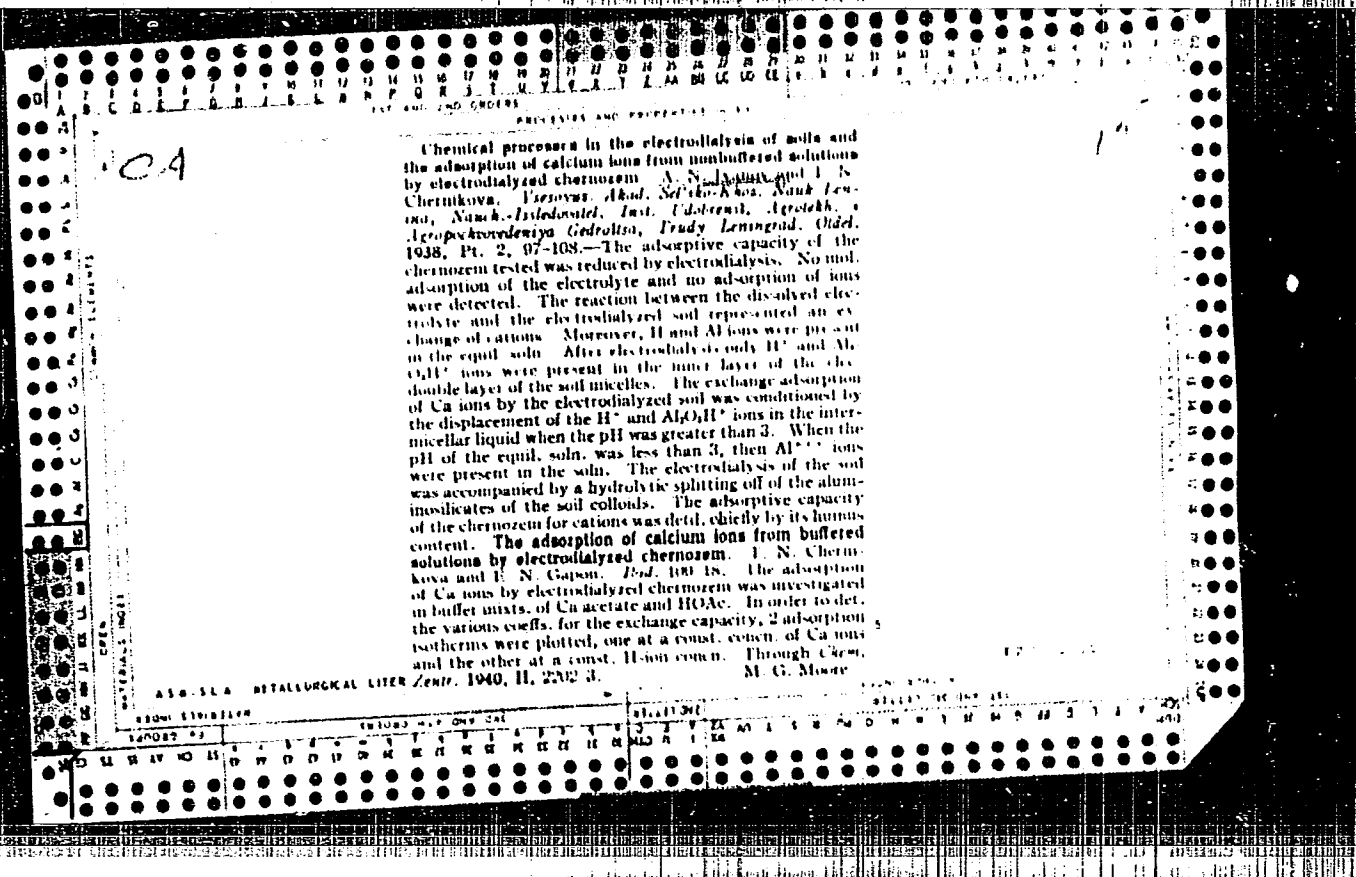
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Ion exchange between solid and liquid phases. I. Dependence of cation exchange on dilution. A. N. Avramov and E. N. Gapon. II. Differential coefficients of sorption of two ions. E. N. Gapon (*J. Phys. Chem. Russ.*, 1941, 15, 659-664, 666-672).—1. In the ion exchange between a solid salt MX and a dissolved salt BA the amount of B sorbed is independent of dilution if M and B have equal valencies; if the valency of B is > that of M, the sorption of B increases with dilution, and vice versa. These rules are deduced theoretically and supported by experiments with aluminosilicates saturated with Na or Ca and exchanging their cations with KCl, NaCl, and CaCl₂.

II. It is shown theoretically that the sorbed amount s of an ion the activity of which is a_1 and valency n_1 generally depends on the activity a_2 and valency n_2 of another competing ion, according to the equation $s = \text{const.}_1 + \text{const.}_2 \times (\log_2 a_1^{1/n_1} - \log_2 a_2^{1/n_2})$.
J. J. B.

IVANOV, A. N.

Ivanov, A. N.

"On the Adsorption fo the ions of Aluminum and Iron by Certain Argillaceous Minerals." Moscow Order of Lenin Agricultural Academy imeni K. A. Timirazev. Moscow, 1955, (Dissertation for the Degree of Candidate in Chemical Sciences)

So: Knizhnaya letopis', No. 27, 2 July 1955

I. V. Ivanov, A. N.

USSR/ Cosmochemistry. Geochemistry. Hydrochemistry

D.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11524

Author : Aleshin S.N., Ivanov A.N.

Inst : Timiryazev Agricultural Academy

Title : Thermographic Analysis of Clayey Minerals Saturated with Ions of Aluminum and Trivalent Iron

Orig Pub : Izv. Timiryazevskoy s.-kh. akad., 1956, No 1, 217-226

Abstract : Differential curves have been obtained of the heating of kaolin and askanite saturated with the ions Fe^{3+} and Al^{3+} . It was found that Al and Fe can not be absorbed at clayey minerals from solutions in the form of ions, and are taken up only in the form of hydroxides. Thermograms of samples of yellow ocher and terra rossa from Western Georgia indicate the presence therein of hydrated oxides of Fe and Al.

1/1

Ivanov, A. N.

USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 502

Author: Ivanov, A. N., and Aleshin, S. N.

Institution: Moscow Agricultural Academy imeni K. A. Timiryazeva

Title: Hydrolysis of Salts of Aluminum and Trivalent Iron

Original

Periodical: Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1956, Vol 22, 386-392 ²⁵⁶⁻²⁷²

Abstract: The negative logarithm of the dissociation constant (pK) of the product of the hydrolysis of $AlCl_3$, calculated from the experimental pH and activity values of the salt by the formula $pK = 14 - 2pH - \log A$, remains constant over a wide concentration range of $AlCl_3$. In the opinion of the authors the pK value (8.14) determines the dissociation of the 2 ions $Al(OH)_2^+$ and $Al(OH)_2^+$. For the hydrolysis product of $Al_2(SO_4)_3$ the pK varies from 8.93 for a 0.001 N solution to 11.14 for a 1 N solution. Here an increase in concentration produces an increase of 0.75 in the pK value; this the authors explain by the varying solubility of the basic aluminum sulfates formed. In $3.3 \cdot 10^{-4}$ and

Ca Card 1/2

SOV/58-59-8-17724

Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 108 (USSR)

AUTHORS: Aleshin, S.N., Ivanov, A.N., Chernikova, T.N.

TITLE: On the Variability of the Surface Tension of Aqueous Solutions of Surface-Active Substances

PERIODICAL: Dokl. Mosk. s. kh. akad. im. K.A. Timiryazeva, 1958, Nr 39, pp 279-282

ABSTRACT: The equation $\Delta \sigma = ZC/K + C$ (where $\Delta \sigma$ is the reduction in the surface tension of the solution, $Z = \sigma_0 - \sigma_c$ is the difference between the surface tension of water and that of alcohol, and K is the constant of surface tension) was verified for an aqueous solution of isobutyl alcohol. The estimated and the experimentally verified surface tension at various concentrations were found to be in good agreement.

T.V.Z.

Card 1/1

L 10797-66 EWT(l)/EWT(m)/EPF(n)-2/T/EWP(t)/EWP(z)/EMP(b)/EWA(h)/EWA(c) IIR(c)
ACC NR: AT5023791 SOURCE CODE: UR/0000/62/000/000/0.36/0152
JD/WW/WW/JG/CG/GS

AUTHOR: Ivanov, A. N.; Pravdyuk, N. F.

ORG: none

TITLE: Effect of neutron irradiation on the electric resistivity of some metals

SOURCE: Soveshchaniye po probleme deystviya yadernykh izlucheniya na materialy. Moscow, 1960. Deystviye yadernykh izlucheniya na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, 136-152

TOPIC TAGS: iron, nickel, titanium, iodide zirconium, molybdenum, tungsten, neutron irradiation, metal electric resistivity, neutron irradiation effect

ABSTRACT: The Atomic Energy Institute im. I. V. Kurchatov has investigated the effect of neutron irradiation at 40-50C on the electric resistivity of commercial-grade iron, nickel, titanium, iodide zirconium, molybdenum, and tungsten. The metals in the as-rolled and annealed conditions were irradiated with a flux of 2.0-2.5 x 10¹³ n/cm²·sec (thermal) and about 2.0-2.5 x 10¹² n/cm²·sec fast neutrons with an energy of more than 1 Mev. A method developed by the authors

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L 19797-66

ACC NR: AT5023791

Table 1. Relative change in the electric resistivity of various metals depending on the integrated flux.

Materials	Preliminary treatment	Electrical resistivity prior to irradiation at 20C, 10 ⁶ ohm·cm	Change in the electric resistivity (%) at an integrated flux of 10 ²⁰ n/cm ² (thermal)*		
			1.3	2.35	2.9
Iron	Annealing at 700C, 1 hr	14,94	2,6±0,3	4,0±0,1	4,8±0,1
	Reduction up to 94%	15,51	2,1±0,2	3,7±0,1	4,4±0,5**
Nickel	Annealing at 700C, 1 hr	9,12	2,9***	4,6±0,1	4,9±0,1
	Reduction up to 92,5%	9,41	1,1±0,2	2,7±0,1	3,1±0,1
Zirconium	Annealing at 1000C, 1 hr	48,96	3,6±0,6	6,1±0,3	7,6±0,1
	Reduction up to 95,5%	51,63	3,0±0,3	4,3±0,3	4,6±0,2
Titanium	Annealing at 1000C, 1 hr	60,63	1,7±0,4	8,0±0,1	4,0±0,1
Molybdenum	Annealing at 1000C, 1 hr	5,99	12,6±1,7**	22,3±0,45	25,3±0,3
Tungsten	Annealing at 1000C, 1 hr	6,10	47,3±10,3	94±1,4**	28,9±0,4****
					121±12****

* Fast neutron flux constituted about 10% of thermal neutrons
 ** The average from two specimens
 *** Single specimen
 **** Specimens were irradiated at 40--50C with an integrated flux of 2.6·10²⁰ n/cm² thermal

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ACC NR: AT5023791

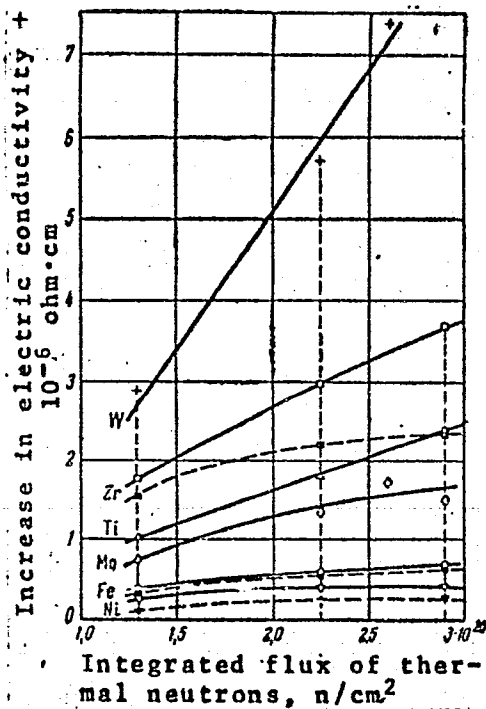


Fig. 1. Dependence of the electric resistivity of metals on the integrated flux.

The calculated flux of fast neutrons ($E > 1$ Mev) constituted 10% of the thermal neutron flux. Dashed line shows the dependence for specimens irradiated in the as-rolled condition. Solid line shows specimens annealed before irradiation.

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ACC NR: AT5023791

for the remote measurement of the electrical resistivity of metals during irradiation in the reactor was used in the experiments. Results of the measurements are shown in Fig. 1 and Table 1. To determine the nature of the irradiation defects, the kinetics of the change in the resistivity of the metals irradiated with various integrated fluxes was investigated by means of isochronal annealing. It was found that the removal of the irradiation-induced increase in the resistivity of titanium, zirconium, and iron irradiated in the annealed conditions proceeded in a single stage and was complete at 210—290, 300—400, and 350C for Ti, Zr, and Fe, respectively. This seems to indicate annealing not of elementary, but of more complex defects. In rolled irradiated and unirradiated iron, the removal of the resistivity increment proceeded in two stages: the first at 100—250C, associated with the release of simple defects from traps, and the second at 250—550C, associated with the rearrangement of dislocations. The decrease of the irradiation-induced increase in resistivity in irradiated molybdenum and tungsten also proceeded in two stages: at 100—250 and above 450C in molybdenum and at 100—375 and 375—1000C in tungsten. The low-temperature stage of the decrease appears to be associated with

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ACC NR: AT5023791

the migration of defects trapped by other imperfections of the crystal lattice or by impurity atoms, and the high-temperature stage with the annihilation of more complex defects. [MS]

SUB CODE: 13,20 SUBM DATE: 18Aug62/ ORIG REF: 000/ OTH REF: 015

gc
Card 5/5

ACC NR: AP6032299

(A)

SOURCE CODE: UR/0226/66/000/009/0055/0060

AUTHOR: Artamonov, A. Ya.; Bezukor nov, A. I.; Ivanov, A. N.

ORG: Institute of Problems in the Science of Materials, Academy of Sciences, UkrSSR
(Institut problem materialovedenya, AN UkrSSR)

TITLE: Investigation of the abrasive capacity of refractory compounds

SOURCE: Poroskovaya metallurgiya, no. 9, 1966, 55-60

TOPIC TAGS: refractory carbide, refractory boride, refractory compound, ~~refractory compound abrasive capacity~~, tungsten boride, *tungsten compound, boride, abrasiveness*

ABSTRACT: Several refractory compounds, such as borides of zirconium, titanium, molybdenum, chromium, and carbides of boron, titanium and zirconium, have been tested for abrasive capacity and improved methods of evaluating the abrasive capacity have been developed. It was found that some refractory compounds possess higher abrasive capacities than some of the conventional abrasives. For instance, the abrasive capacity of tungsten boride (0.233) is higher than that of synthetic corundum and tungsten boride (and some other compounds) does not react chemically with titanium or its alloys. Orig. art. has: 3 figures and 2 tables. [TD]

SUB CODE: 11/ SUBM DATE: 09Mar66/ ORIG REF: 009/ OTH REF: 001

Card 1/1

SOV/95-58-11-19/21

AUTHOR: Ivanov, A.N., Engineer

TITLE: An All-Union Conference of Power Engineers in the Ferrous Metal Industry (Vsesoyuznoye soveshchaniye energetikov chernoy metallurgii)

PERIODICAL: Teploenergetika, 1958, Nr 11, pp 92-93 (USSR)

ABSTRACT: An All-Union Conference of power engineers in the Ferrous Metal Industry was held at Zhdanov from the 1st - 5th July 1958. The conference was organised by GOSPLAN USSR, the State Scientific Technical Committee and Central Directorate of the Scientific Technical Society of Ferrous Metallurgy. It was devoted to the development of power economy, to the introduction of modern techniques and to fuel economy in iron and steel works. The plenary sessions considered questions associated with the development of power engineering, the modernisation of electrically-driven air-blast equipment, the fuel balance of the country and the utilisation of natural gas. Reports were read by V.A.Gerasimerko, Engineer and P.K.Aksyutin, Engineer (GOSPLAN USSR) M.N.Pavlov, Engineer (Giprometz), A.N.Ivanov, Engineer (Energochermet)

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SOV/96-58-11-19/21

An All-Union Conference of Power Engineers in the Ferrous Metal Industry

A.G.Osipov, Engineer (Glavgaz) of the Council of Ministers USSR) and Engineer V.I. Surovov (Metallurgical Works imeni Petrovskiy). These reports were considered by representatives of the Kuznetsk, Magnitogorsk and Nizhny Tagil Metallurgical Combines, Giprostal', the **Stalino** Metallurgical Works, GOSPLAN UkrSSSR, the State Scientific Technical Committee of the USSR, GOSPLAN RSFSR and other organisations. Sixty reports and communications were read at sectional sessions. In the section dealing with power stations and power equipment the main themes considered were: the modernisation of electrically-driven air-blast equipment, increasing the efficiency of steam-turbine and heat-supply installations, compressors and blowers, the use of gas turbines in ferrous metallurgy and so on. The main recommendations are concerned with modernisation of the drive of air-blast equipment. The section dealing with the utilisation of secondary power resources considered reports relating to the

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SOV/96-58-11-19/21

An All-Union Conference of Power Engineers in the Ferrous Metal Industry

better use of secondary power resources in ferrous metallurgy. Waste-heat boilers can be installed with open-hearth furnaces. Enormous quantities of heat are still not used in metallurgical works. The use of steam for soot blowing in waste-heat boilers was considered and the design of these boilers was discussed. The major recommendation was to design waste-heat installations for agglomeration works, coking plants, pipe-rolling mills and heat insulation manufacture. The main themes considered by the section dealing with metallurgical heat engineering and gas utilisation were: methods of increasing the efficiency of furnaces, thermal-technical problems of open-hearth furnaces and heating furnaces, gas purification in industrial furnaces and the gas balance of metallurgical works. Rational use of oxygen blast in open-hearth furnaces can increase the output by 20 - 30% and reduce the fuel consumption by 10 - 20%. The main recommendations concerned the

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An All-Union Conference of Power Engineers in the Ferrous Metal Industry

urgent need to develop methods of using natural gas in large open-hearth furnaces, called for more efficient use of hydrogen in open-hearth furnaces, stressed the need to increase the blast temperature to 1,000 - 1,200°C. on existing blast furnaces and advised more experimental work and the introduction into industry of improved methods of gas purification.

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SOV/94-58-11-20/28

AUTHOR: Iyanov, A.N., Engineer

TITLE: A Conference of Power Engineers from Ferrous Metallurgy Undertakings (Soveshchaniye energetikov predpriyatiy chernoy metallurgii)

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 11, p 36 (USSR)

ABSTRACT: The Scientific Technical Society of Ferrous Metallurgy together with GOSPLAN and the State Scientific Technical Committee of the USSR held in July, in the town of Zhdanov an All-Union Conference of power engineers in ferrous metallurgy devoted to the development of power equipment and to the introduction of advanced technique and to fuel economy in metallurgical works. The conference was attended by 47 representatives of metallurgical works, 48 from coke and chemical works, Manufacturers of Refractories and Engineering Works, 38 of Councils of National Economy and 49 of Scientific and Design Organisations; altogether 475 persons took part. Sixty five reports were read. The conference directed attention to the need for more profound investigation of technical and economic indices, it indicated the need to use gas

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SOV/94-58-11-20/28

A Conference of Power Engineers from Ferrous Metallurgy Undertakings

turbine installations and to combine them with other ways of using secondary power resources, NIOGAZ should press on with development of their dry high-temperature purification method for flue and industrial gases. The conference pointed out various difficulties in the utilisation of steam, it mentioned delays in installing the first installation for the dry quenching of coke and delay in making use of the heat of slag.

Card 2/2

AUTHOR: Ivanov, A.N., Engineer

SOV/96-58-5-16/27

TITLE: Increasing the Efficiency of Industrial Electric Power Stations (Povysheniye ekonomichnosti promyshlennykh elektrostantsiy)

PERIODICAL: Teploenergetika, 1958, Nr 5, pp 68 - 70 (USSR).

ABSTRACT: This is a discussion of an article of the same title by V.N. Yurenev in Teploenergetika, 1958, Nr 4. Condensing sets of low and medium output are still used in many industrial electric power stations and they will need to be modernised by using them to supply heat. Until 1955, it was the policy of the Ministry of Power Stations that all metallurgical works should be supplied with electric power from their own stations, the connection to the main supply being regarded only as a standby. At present, the Ministry of Power Stations proposed that, in most districts, industrial stations should cover the thermal load and use up excess gas; any deficiency or excess of electric power should be delivered by or to the power system. In new metallurgical works, the output of the power station equipment usually depends on the heat demand of the works and its neighbourhood and also on the

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SOV/96-58-5-16/27

Increasing the Efficiency of Industrial Electric Power Stations

combustion of all excess gas and other coal products. However, for a number of reasons, it is still necessary to instal some condensing sets and instances are cited. Because of the increased capacity of the power system, existing condensing sets may now be reconstructed to supply heat either by arranging steam-tapping from an intermediate stage or by working at reduced vacuum. The best results are obtained by a combination of these two methods. A number of examples of such conversions are quoted.

When a turbine installation is adapted for reduced vacuum, there is a considerable increase in the temperature of the exhaust steam, so that the low-pressure end of the turbine is heated: this may cause vibration or overloading of the thrust bearing. Examples of stress determination are given. When turbines are going to operate permanently on impaired vacuum, the removal of the last stages should be considered, as this cuts down the internal losses. very often, the efficiency of industrial turbines can be improved by attention to the condensing equipment: various examples are given.

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SOV/96-58-5-16/27

Increasing the Efficiency of Industrial Electric Power

There are 2 figures and 1 Soviet reference

ASSOCIATION: Energochermet

Card 3/3

1. Electric power plants--Performance
 2. Electric power production
- USSR

Ivanov A. N.

PHASE I BOOK EXPLOITATION 671

Kukushkin, Aleksandr Ivanovich; Boykov, Aleksandr Geogriyevich; Ivanov,
Anatoliy Nikolayevich

Teploizolyatsionnyye raboty (Heat Insulation) Moscow, Gostoptekhizdat, 1958.
254 p. 6,000 copies printed.

Ed.: Losev, B. S.; Executive Ed.: Martynova, M. P.; Tech. Ed.: Fedotova, I. G.

PURPOSE: This book is intended for foremen, and engineering and technical personnel of concerns dealing with heat insulating problems.

COVERAGE: This book provides general information in popular form on heat insulation and the exploitation of heat insulating materials, manufacture of these materials, and appropriate equipment. The authors outline principles of heat transfer and classify the equipment for heating and refrigerating. The capital invested for heat insulating equipment should be recovered by its exploitation within one year. Efficiency of proper heat insulating equipment varies from 85 to 95 percent. Reasonable usage of one ton of insulating

Card 1/4

Heat Insulation

671

material leads to the economy of 200 tons of rated fuel per year. During the prewar period the Soviet industry manufactured large quantities of friable heat insulating products such as "ASBOTERMIT", "NOVOASBOZURIT", "ASBOSLIUDA" and others. Mastic heat-insulating construction parts were based on the above-mentioned materials. There are two serious disadvantages connected with application of mastic heat-insulating constructional parts, namely: necessity of preheating the equipment to be insulated and the labor involved being 2 to 5 times more than in the case when large formed heat-insulating parts are used. After the war the use of mastic heat-insulating construction parts was sharply reduced and production of slag wool was rapidly developed. This material is more economical and suitable for refrigeration and heat insulation up to +600°C. The book mentions that at the present there is no wide choice of heat insulating materials that can be used in construction processes. Nevertheless, production of heat-insulating raw materials and ready-made products develops rapidly.

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AVAILABLE: Library of Congress

TM/bmd
10-21-58

Card 4/4

IVANOV, A.N.

All-Union Scientific and Technical Conference on Electric
Drives in Ferrous Metallurgy Plants. Prom. energ. 17 no.6:
50-51 Je '62. (MIRA 17:6)

BYKOV, G.A., inzh.; BIRFEL'D, A.G., inzh.; GENDEL'MAN, B.R., inzh.;
YEGORYCHEV, G.M., inzh.; KRICHEVSKIY, G.M., inzh.;
PISTRAK, M.Ya., inzh.; TAYTS, A.A., kand. tekhn. nauk;
FRIMES, A.P., inzh.; GOL'DIN, Ya.A., glav. red.; IVANOV, A.N., red.;
LANOVSKAYA, M.R., red. izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Electric power engineering] Elektroenergetika. [By] G.A. Bykov i
dr. Moskva, Metallurgizdat, 1962. 190 p. (MIRA 16:4)
(Electric motors) (Automatic control)
(Metallurgical plants--Electric equipment)

IVANOV, A.N.

Methods for modernizing industrial electric power plants. From.
energ. 16 no.10:32-36 0 '61. (MIRA 14:10)
(Electric power plants)

IVANOV, A.N.

Experience in increasing the engineering-efficiency factors of
industrial electric power plants. Prom.energ. 16 no.11:9-14 N
'61. (MIRA 14:10)

(Electric power plants)

IVANOV, A.N., inzh.

Means for increasing the efficiency of power facilities in ferrous metal plants. Trudy NTO Chern. met. 20:38-53 '60. (MIRA 13:10)

1. Energochermet. (Metallurgical plants)

L 01209-67 EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW
ACC NR: AP6032458 SOURCE CODE: UR/0129/66/000/009/0042/0045 ⁵⁷

AUTHOR: Vishnyakov, Ya. D.; Ivanov, A. N.; Mirskiy, L. M.; Kherodinashvili, Z. Sh. ⁵⁶ _B

ORG: Institute of Steel and Alloys, Moscow (Moskovskiy institut stali i splavov)

TITLE: Effect of high-temperature thermomechanical treatment on the fine structure and mechanical properties of titanium alloys ¹⁷

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 9, 1966, 42-45

TOPIC TAGS: titanium alloy, thermomechanical ^{property,} ~~treatment,~~ alloy thermomechanical treatment, alloy, ~~fine structure,~~ ~~and~~ mechanical property/VT3-1 alloy, VT15 alloy

ABSTRACT: VT3-1 titanium alloy (2.4% Mo, 1.6% Cr, 5.9% Al, 0.5% Fe, 0.2% Si) and VT15 titanium alloy (7.8% Mo, 11.0% Cr, 3.2% Al, 0.2% F, 0.1% Si) were subjected to high-temperature thermomechanical treatment (HTMT) — deformation at 900—1000 and 800—900C, respectively, followed by rapid (200C/sec) cooling. Specimens were strained either by tension (VT3-1 alloy) or by upsetting (VT15 alloy). HTMT increased the strength and ductility of the alloys. For example, the VT3-1 alloy strength increased from 115 kg/mm² after conventional heat treatment to 142 kg/mm² after HTMT at 900C with a reduction of 26%. Higher reductions brought about no additional effect. Aging at 500C for 5 hr increased the strength of conventionally and thermomechanically treated alloy to 125 and 160 kg/mm² at an elongation of 12 and 15%, respectively. With the HTMT in the β -region (1000C), the strengthening effect was

UDC: 620.17:669.295:621.789

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ACC NR: AP6032458

still higher because only α' -phase was formed. With increasing deformation in HTMT, the size of the coherent dispersion regions decreased and the lattice microdeformations increased in both alloys. Subsequent tempering at 550C for 2 hr brought about no changes in the fine structure, which indicated a thermally stable configuration of the lattice defects formed with deformation and subsequent phase transformation. Also, no grain growth occurred in thermomechanically treated alloys reheated up to 900C; this ensures preservation of the advantages of HTMT at elevated temperatures. However, at temperatures above 600C, because of a higher diffusion in the structure with defects, the thermomechanically treated VT3-1 alloy softens more rapidly than conventionally heat treated alloy. Orig. art. has: 2 figures and 3 tables. [MS]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 005/ ATD PRESS: 5097

Card 2/2 blg

IVANO, S.N.

First instruction for the study of caves. Peshchery no.3:
91-92 '63. (MIRA 18:2)

IVANOV, A.N., inzh.

Snow removal at the pass sections of mountain roads. Avt. dor.
28 no.9:11 S '65. (MIRA 18:10)

REF ID: A66002, Item 1, Page 1 of 1
DATE: 08/10/2001, BY: [illegible]

Operations and maintenance reports of the [illegible] large
aircraft in the [illegible] category of the [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible] [illegible]

(FORM 14-60)

IVANOV, A. N.

90

PHASE I BOOK EXPLOITATION

SOV/6176

Konobeyevskiy, S. T., Corresponding Member, Academy of Sciences
USSR, Resp. Ed.

Deystviye vadernykh izlucheniiv na materialy (The Effect of
Nuclear Radiation on Materials). Moscow, Izd-vo AN SSSR,
1962. 383 p. Errata slip inserted. 4000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye tekhniki-
cheskikh nauk; Otdeleniye fiziko-matematicheskikh nauk.

Resp. Ed.: S. T. Konobeyevskiy; Deputy Resp. Ed.: S. A.
Adasinskiy; Editorial Board: P. L. Gruzin, G. V. Kurdyumov,
B. M. Levitskiy, V. S. Lyashenko (Deceased), Yu. A. Kartynuk,
Yu. I. Pokrovskiy, and N. F. Pravdyuk; Ed. of Publishing
House: M. G. Makarenko; Tech. Eds: T. V. Polyakova and
I. N. Dorokhina.

Card 1/14

90

sov/6176

The Effect of Nuclear Radiation (Cont.)

PURPOSE: This book is intended for personnel concerned with nuclear materials.

COVERAGE: This is a collection of papers presented at the Moscow Conference on the Effect of Nuclear Radiation on Materials, held December 6-10, 1960. The material reflects certain trends in the work being conducted in the Soviet scientific research organization. Some of the papers are devoted to the experimental study of the effect of neutron irradiation on reactor materials (steel, ferrous alloys, molybdenum, avial, graphite, and nichromes). Others deal with the theory of neutron irradiation effects (physico-chemical transformations, relaxation of internal stresses, internal friction) and changes in the structure and properties of various crystals. Special attention is given to the effect of intense γ -radiation on the electrical, magnetic, and optical properties of metals, dielectrics, and semiconductors.

Card 2/14

The Effect of Nuclear Radiation (Cont.)

SOV/6176

- Astrakhontsev, S. M., and Yu. I. Kozlov. Effect of Neutron Irradiation on Inhomogeneous Solid Solutions 121
Specimens of X20H80 [Ni80Cr20] alloy were irradiated at a temperature not exceeding 100° [C?] by a thermal neutron flux of $1 \cdot 10^{17}$ to $1.4 \cdot 10^{20}$ n/cm².
- Sayenko, G. P. Effect of Neutron Irradiation on Ordering Fe₃Al Alloy 127
Specimens were irradiated by fast neutrons and measurements were made of electric resistance, lattice parameters, and the intensity of superlattice lines.
- Ivanov, A. N., and N. F. Pravdyuk. Effect of Neutron Irradiation on Electrical Resistance in Certain Metals 136
- Pravdyuk, N. F., and P. A. Plastunov. Study of Long-Time Strength of Copper After Irradiation 153
The investigation was conducted before and after irradiation with a neutron flux of $\approx 10^{20}$ n/cm².

Card 7/14

IVANOV, A.N.; PRAVDYUK, N.F.

[Measuring the electric resistance of molybdenum during irradiation in a reactor for physical and technological research] Izmerenie elektrosoprotivleniia molibdena v protsesse oblucheniia v reaktore RFT. Moskva, In-t atomnoi energii AN SSSR, 1960. 18 p. (MIRA 16:12)
(Molybdenum--Electric properties)
(Nuclear reactors)

IVANOV, A.N.; PRAVDYUK, N.F.

[Effect of neutron irradiation on the electric resistance
of certain metals] Vliianie neitronnogo oblucheniia na
elektrosoprotivlenie nekotorykh metallov. Moskva, In-t
atomnoi energii im. I.V.Kurchatova, 1960. 23 p.

(Neutrons)
(Metals, Effect of radiation on)

(MIRA 16:12)

IVANOV, A-O.

8(0)

PHASE I BOOK EXPLOITATION

SOV/1548

Tun, Aleksandr Yakovlevich, and Andrey Osipovich Ivanov

Naladka elektricheskikh apparatov i mashin v skhemakh elektroprivoda
(Adjustment of Electrical Equipment and Machinery of Electric
Drive Systems). Moscow, Gosenergoizdat, 1958. 159 p. 21,000
copies printed.

Ed.: K.D. Kofman; Tech. Ed.: A.M. Fridkin.

PURPOSE: This is a handbook for technicians adjusting and inspecting
electric drive equipment.

COVERAGE: The authors describe practical methods of adjusting ma-
chines and equipment of electric drive systems. They discuss ad-
justment and testing of equipment during installation and opera-
tion and provide examples of equipment characteristics and os-
cillograms. The book is based on the work experience of the ad-
justing departments of GPI "Tyazhpromelektroproyekt". The authors
thank V.I. Krupovich and K.D. Kofman for their help. They mention
the book by V.S. Khmelevskiy, "Electric Drive Adjustment." There
are no references.

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Adjustment of Electrical Equipment (Cont.)	SOV/1548	
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AVAILABLE: Library of Congress (TK2189.T8)

JP/sfm
5-8-59

Card 3/3

IVANOV, A.O.; KHAR'YUZOV, V.A.

Dielectric properties of melted glass batch. Opt.-mekh.prom. 25
no.5:51-54 no.5:51-54 My '58. (MIRA 11:9)
(Glass--Dielectric properties)

IVANOV, A.O.; YEVSTROP'YEV, K.S.

Structure of simple germanate glass. Dokl.AN SSSR 145 no.4:797-800
Ag '62. (MIRA 15:7)

1. Predstavleno akademikom A.A.Lebedevym.
(Glass) (Germanates)

IVANOV, A. O.

"Investigation of the minimum effect of electroconductance in germanate glasses."

report submitted for 4th ^A11-Union Conf on Structure of Glass, Leningrad,
16-21 Mar 64.

TUN, Aleksandr Yakovlevich; IVANOV, Andrey Osipovich; KOFMAN, K.D.,
red.; BORUNOV, N.I., tekhn. red.

[Repair of the electrical machines of electric drives] Na-
ladka elektricheskikh mashin elektroprivodov. Moskva, Gos-
energoizdat, 1963. 94 p. (Biblioteka po avtomatike, no.85)
(MIRA 16:12)

(Electric driving)

(Electric machinery--Maintenance and repair)

NEMILOV, S.V.; IVANOV, A.O.

Viscosity of vitreous germanium dioxide in the region of
the softening point. Zhur. prikl. khim. 36 no.11:2541-2542
N '63. (MIRA 17:1)

IVANOV, A.O.

Electric conductivity of mixed alkali glasses of the system
Na₂O -- K₂O -- GeO₂. Fiz. tver tela 5 no.9:2647-2652 S '63.
(MIRA 16:10)

1. Gosudarstvennyy opticheskly Institut im. S.I.Vavilova,
Leningrad.

SKVARIK, V.P. [Skvaryk, V.P.], kand. tekhn. nauk; D'YACHENKO, V.S.; KUCHERENKO,
A.G. [Kucherenko, A.H.]; VOLOSHIN, A.M. [Voloshyn, A.M.]; IVANOV, A.O.

Use of plastics in shoe manufacture. Leh. prom. no.3:78-81 JI-S '64.
(MIRA 17:10)

PHASE I BOOK EXPLOITATION

SOV/4737

Ivanov, A.P., I.F. Kirillov, A.A. Rybnikov, and K.M. Sirotov

Gidrometeorologicheskiye nablyudeniya na kitoboynom sudne "Slava-15" Antarkticheskoy kitoboynoy flotilii v 1955-58 gg. i glubokovodnyye gidrologicheskiye nablyudeniya v 1950-51 i 1953-58 gg. (Hydrometeorological Observations Made on Board the Whaler "Slava-15" of the Antarctic Whaling Fleet, 1955-58, and Deep-Sea Hydrological Observations, 1950-51 and 1953-58) Moscow, Gidrometeoizdat (Otd-niye), 1960. 319 p. (Series: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, vyp. 58) 650 copies printed.

Sponsoring Agencies: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR; Gosudarstvennyy okeanograficheskiy institut.

Ed. (Title page): V.S. Nazarov; Ed. (Inside book): N.I. Sorokina; Tech. Ed.: I.M. Zarkh.

PURPOSE: The book is intended for members of the whaling industry and for navigators. It will also be useful to meteorologists and hydrologists.

COVERAGE: This issue of the Transactions of the Moscow State Oceanographic Institute presents the results of hydrometeorological and glaciological observations
Card 1/5

ARKHANGEL'SKIY, P.Ye., inzhener; ARKHIPOV, P.P., inzhener; VAS'KOV, M.P.,
agronom; ZHMUDSKIY, D.A., arkhitektor; IVANOV, A.P., arkhitektor; KIBI-
REV, S.P., arkhitektor; KRYLOV, N.V., inzhener-arkhitektor; KULAKOV,
D.V., arkhitektor; MARTYNOV, P.F., inzhener; NIKIFOROV, V.S., inzhener;
NOSKOV, B.G., arkhitektor; PETUKHOV, B.V., kandidat tekhnicheskikh nauk;
RUDANOV, M.L., kandidat tekhnicheskikh nauk; RYAZANOV, V.S., kandidat
arkhitektury; SOKHRANICHEV, N.S., inzhener-arkhitektor; TARASOV, D.I.,
arkhitektor; SEMIDT, N.E., kandidat arkhitektury; KHOMUTOV, Ye.Ye.,
arkhitektor; VOL'FOVSKAYA, V.N., redaktor; FEDOTOVA, A. F., tekhniche-
skiy redaktor.

[Handbook on the construction of farm buildings] Spravochnik po sel'sko-
khoz.iistvennomu stroitel'stvu. Avtorskii kollektiv: P.E.Arkhangel'skii
i dr., avtor-sost. N.V.Krylov. Moskva, Gos.izd-vo sel'khoz.lit-ry. Vol.3
1955. 843 p. (Farm buildings) (MLRA 9:6)

IVANOV, A. F.

"Lowering Mast of the Wind Vane". Meteorol. i gidrologiya, No 10, 1953, pp 48-50

The author describes in considerable detail the experimental erection of the lowering mast of the wind vane, planned in accordance with the "crane" method. The installation makes it possible for one man to lower a wind vane to earth without difficulty in the course of 4-5 minutes and after execution of the necessary operations to erect it again to its operating position in the same time. Use of the lowering mast in the course of 5 years has demonstrated the faultless operation of the wind vane. This recommends the installation for wide employment in stations. (RZhGeol, No 5, 1954)

SO: Sum No. 568, 6 Jul 55

YEFIM'YEV, Nikolay Nikolayevich, prof., kand. tekhn. nauk;
IVANOV, A.P., red.

[Principles of the theory of submarine boats] Osnovy teorii
podvodnykh lodok. Moskva, Voenizdat, 1965. 381 p.
(MIRA 18:5)

IVANOV, A.P.; NIKITINA, V.N.; RENECHTEYN, B.S.

Input resistance of a grounded electric dipole. Izv. AN SSSR. Ser.
geofiz. no.9:1399-1404 S '64. (MIRA 17:10)

1. Geologicheskii institut AN SSSR.

VASIL'YEV, V.G.; IVANOV, A.P.; VOSTRYAKOV, O.I.; SHMITEL'SKIY, V.N.;
GAFANOVICH, M.D.; DIDENKO, K.I.; ABUGOV, Yu.O.; SHRANKO, K.N.;
ZAGARIY, G.I.; DUDCHENKO-DUDKO, V.M.; NIKULIN, Yu.Ya.;
YEFIMOV, Yu.N.; BYKOV, V.L.

Inventions. Avt. i prib. no.4:73-74 O-D '64 (MIRA 18:2)

VOLOKH, V.G.; GUSHCHINA, M.V.; IGRUNOV, V.D.; NECHAYEV, I.N.; POKROVSKAYA, I.A.; TRIFONOVA, T.S.; TSYGANOVA, A.M.; RUSIN, N.P., otv.red.; KITAYTSEV, A.M., red.; KUZ'MIN, L.A., red.; OLIMPOV, V.G., red.; SKITEYKIN, I.S., red.; BERLIN, I.A., red.; NECHAYEV, I.N., red.; SHCHERBAKOVA, L.F., red.; MARTYNOV, S.I., red.; SIMONOV, Yb.P., red.; IVANOV, A.P., red.; BESSONOV, N.P., red.; YASNOGORODSKAYA, M.M., red.; VLADIMIROV, O.G., tekhn.red.

[Directions for hydrometeorological stations and posts] Nastavlenie gidrometeorologicheskim stantsiham i postam. Leningrad, Gidrometeor.izd-vo. No.3, pt.1. [Observations at meteorological stations] Meteorologicheskie nabliudeniia na stantsiakh. 1958. 223 p.

(MIRA 12:12)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Sotrudniki Metodicheskogo otdela Glavnoy geofizicheskoy observatorii im. A.I.Voyeykova (for Volokh, Gushchina, Igrunov, Nechayev, Pokrovskaya, Trifonova, Tsyganova). 3. Glavnoye upravleniye Gidrometeorologicheskoy sluzhby SSSR (GUGMS)(for Kitaytsev, Kuz'min, Olimpov, Skiteykin). 4. Glavnaya geofizicheskaya observatoriya (GGO) (for Berlin, Nechayev, Rusin, Sherbakova). 5. Mestnyye upravleniya Gidrometeorologicheskoy sluzhby (for Martynov, Simonov, Ivanov, Bessonov).

(Meteorology--Observations)

MORGUN, Vladimir Nikiforovich; IVANOV, A.P., inzhener-kapitan 2
ranga, red.; SRIENIS, N.V., tekhn. red.

[Diesel-engine mechanic]Slesar'-dizelist. Izd.2., dop. Mo-
skva, Voenizdat, 1963. 559 p. (MIRA 16:3)
(Diesel engines--Maintenance and repair)

GERASIMOV, Vladimir Nikolayevich; DROBLENKOV, Viktor Feoktistovich;
RODIONOV, A.I., retsenzent; VASIL'YEV, B.F., retsenzent;
IVANOV, A.P., red.; MEDNIKOVA, A.N., tekhn.red.

[Submarine boats of imperialist countries] Podvodnye lodki
imperialisticheskikh gosudarstv. Moskva, Voen.izd-vo M-va
obor.SSSR, 1960. 221 p. (MIRA 13:12)
(Submarine boats)

GERASIMOV, Vladimir Nikolayevich; DROBLENKOV, Viktor Feoktistovich;
RODIONOV, A.I., redsenzent; VASIL'YEV, B.F., redsenzent;
ANTONOV, D.A., redsenzent; IVANOV, A.P., red.; KRASAVINA,
A.M., tekhn. red.

[Submarine boats of imperialist countries] Podvodnye lodi im-
perialisticheskikh gosudarstv. Izd.2., dop. Moskva, Voenizdat,
1962. 301 p. (MIRA 15:9)
(Atomic submarines) (Submarine boats)

IVANOV, Stepan Stepanovich; IVANOV, A.P., inzh.-kapitan 2 ranga, red.;
SVIRIDENKO, L.V., inzh.-kapitan 2 ranga, red.; BUKOVSKAYA, N.A.,
tekhn. red.

[The submarine] Podvodnaia lodka. Moskva, Voen.izd-vo M-va obor.
SSSR, 1961. 116 p. (MIRA 14:12)

(Submarine boats)

IVANOV, A.P., podpolkovnik meditsinskoy sluzhby, kand.med.nauk

Medical service for Soviet Army troops in the defense of
Sevastopol. Voen.-med. zhur. no.11:82-87 N '61. (MIRA 15:6)
(SEVASTOPOL--WORLD WAR, 1939-1945--MEDICAL AND SANITARY AFFAIRS)

IVANOV, A.P., kand.med.nauk (Leningrad, C-15,ul.Saltykova-Shchedrina, d.41)

Organization of surgical aid for the wounded in Sevastopol during the Great Patriotic War; on the 20th anniversary of the defense of the city against the fascist invaders. Klin.khir. no.8:67-69 J1 '62. (MIRA 15:11)

1. Leningradskiy institut usovershenstvovaniya vrachey imeni S.M.Kirova.
(SEVASTOPOL—SIEGE, 1942—MEDICAL AND SANITARY AFFAIRS)

IVANOV, A. P., Cand Biol Sci (diss) -- "The effect of fodder proteins and wastes of penicillin, of various biological value, on young carp". Moscow, 1960. 16 pp (Moscow Order of Lenin and Order of Labor Red Banner State U im M. V. Lomonosov), 200 copies (KL, No 14, 1960, 130)

IVANOV, A.P.

Rearing young-of-the-year carp on different feed rations.
Trudy VNIRO 44:156-159 '61. (MIRA 14:11)
(Carp)
(Fishes--Food)

IVANOV, A.P., kand.biologicheskikh nauk

Experiments with the isolated heart of a mammal. Biol. v shkole no.3:
30-33 My-Je '62. (MIRA 15:7)

1. Khabarovskiy pedagogicheskiy institut.
(Physiology—Study and teaching) (Heart)

IVANOV, A.P.

Breaking off a sand particle from the surface and its movement in
an air flow. Izv. AN Turk. SSR. Ser. biol. nauk no. 2:42-49 '63.
(MIRA 16:5)

1. Institut pustyn' AN Turkmenskoy SSR.
(SAND) (FLUID DYNAMICS)

IVANOV, A.P.

Rotation of sand particles in an air flow. Izv. AN Turk. SSR. Ser.
biol. nauk no.4:42-47 '64. (MIRA 17:11)

1. Institut pustyn' AN Turkmenskoy SSR.

IVANOV, A.P. [Ivanou, A.P.]

Transmission factor of a fading layer. Vestnik AN BSSR. Ser. Fiz.-tekh.
nav. no.2:35-37 '63. (MIRA 17:1)

IVANOV, A. P.

Cand Tech Sci

Dissertation: "Investigation of High-Speed Turning of Heat-Resistant Steels
of the Austenitic Type."

28 June 49

Moscow Aviation Technological Inst.

SO Vecheryaya Moskva
Sum 71

11332* Rapid Turning of Heat-Resistant Steels of the Austenitic Class. (In Russian.) A. P. Ivanov. *Stanki i Instrument* (Machine Tools and Equipment), v. 22, Feb. 1951, p. 3-5. Experimental investigation of behavior of steels most difficult to machine on lathes equipped with cutting tips of optimum characteristics established that breakdown of cutting edge as a result of chipping is not due to any casual causes, but is fully related to individual factors of cutting conditions. Obtained data, relating time, revolutions per minute, depth of cut, and wear are charted and discussed.

11332

IVANOV, A.P.

B

5

Common Elements

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Processes and Properties Index

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

LEON NUMBER

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Common Variables Index

KOLESNIK, N.V.; IVANOV, A.P., kandidat tekhnicheskikh nauk, rensenzent; POKROVSKIY, V.V., kandidat tekhnicheskikh nauk, rensenzent; DOKUCHAYEV, A.N., kandidat tekhnicheskikh nauk, redaktor.

[Static and dynamic balancing] Statischeckaja i dinamicheskaia balansirovka. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 243 p. (MLRA 7:8)
(Balancing of machinery)

IVANOV, Aleksandr Pavlovich; OBORIN, Arkadiy Ivanovich; REZNITSKIY, L.M.,
kandidat tekhnicheskikh nauk, redaktor; KAPLANSKIY, Ye.F., redaktor;
SOKOLOVA, L.V., tekhnicheskii redaktor

[Construction and use of annular drills] Konstruktsiia i eksplua-
tatsiia kol'tsevykh sverl. Moskva, Gos.nauchno-tekh. izd-vo mashino-
stroitel'noi lit-ry, 1955. 54 p. (MIRA 9:2)
(Drilling and boring machinery)

IVANOV, A.P., konstruktor; YEMEL'YANOVA, Ye.V., red.; LEVONOVSKAYA, L.G.,
tekh. red.

[New tools] Nove vysokoproizvoditel'nye instrumenty. [Leningrad]
Leningradskoe gazetno-zhurnal'noe i knizhnoe izd-vo, 1955. 65 p.
(Cutting tools) (MIRA 11:10)

SOV/123-59-15-58893

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 11 (USSR)

AUTHOR: Ivanov, A.P. (Leningrad)

TITLE: The Situation and Prospects of Improving Accuracy in Machine Construction

PERIODICAL: V sb. Vzaimozamenyayemost', tochnost' i metody izmereniya v mashinostroyeniye. M.-L., Mashgiz, 1958, vpp 114 - 118

ABSTRACT: The present stage of development of a theory of accuracy in machine construction is characterized by a number of works on the elaboration of an engineering basis for the theory of accuracy of mechanism and machines. The efforts of the scientists are directed to the discovery of the complex laws of accuracy, referring to the physical nature of phenomena taking place in mechanisms and to the investigation of the conditions of their behavior. The great importance of a theory of dynamic accuracy of machines and mechanisms, which hitherto has been insufficiently developed, is emphasized. When calculating the accuracy of machines and mechanisms

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C

IVANOV, A.P.; LISITSYN, V.D.; YEKIMOV, K.K.

Scientific conference on modernization and operation of forging
and pressing machinery in Leningrad. Kuz.-shtam.proizv. 1 no.3:
47-48 My '59. (MIRA 12:10)
(Forging machinery) (Power presses)

PHASE I BOOK EXPLOITATION

SOV/4436

Ivanov, Andrey Pavlovich, Candidate of Technical Sciences, Docent

Mekhanizatsiya i avtomatizatsiya tekhnologicheskikh protsessov v mashinostroyenii
(Mechanization and Automation of Manufacturing Processes in Machine Building)
Moscow, Mashgiz, 1960. 334 p. 12,500 copies printed.

Reviewer: F.S. Dem'yanyuk, Doctor of Technical Sciences, Professor; Ed.: S.B. Berlin; Managing Ed. for Literature on Metal Working and Machine-Tool Making (Mashgiz): V.I. Mitin, Engineer; Ed. of Publishing House: V.V. Rzhavinskiy; Tech. Eds.: L.P. Gordeyeva, and Z.I. Chernova.

PURPOSE: This book is intended for technical personnel and efficiency-minded workers in machine-building establishments, and it may also be useful to students who are studying machine building at schools of higher education and tekhnikums.

COVERAGE: The author presents an evaluation of the economic effectiveness of the automation of manufacturing processes as related to the production scale, and investigates conditions for the efficient use of mechanized and automated equipment under various production conditions. Included in the book are methods of mechanization and automation of the basic elements of production processes,
Card 1/6-

PHASE I BOOK EXPLOITATION

SOV/5658

Ivanov, Aleksandr Petrovich, Candidate of Technical Sciences, and
Viktor Dmitriyevich Lisitsyn, Candidate of Technical Sciences,
eds.

Modernizatsiya kuznechno-shtampovochnogo oborudovaniya (Moderni-
zation of Die-Forging Equipment) Moscow, Mashgiz, 1961. 226 p.
Errata slip inserted. 10,000 copies printed.

Reviewer: V. Ye. Nedorezov, Candidate of Technical Sciences; Ed.
of Publishing House: T. L. Leykina; Tech. Ed.: A. A. Bardina;
Managing Ed. for Literature on Machine-Building Technology
(Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for foremen, machinists, designers,
and process engineers concerned with the modernization and de-
signing of die-forging equipment. It may also be used by students
at schools of higher education.

COVERAGE: The book contains material presented at the Conference

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Modernization of Die-Forging Equipment

on Problems in the Modernization and Operation of Die-Forging Equipment, held in November 1958 in Leningrad. The Conference was called by Leningradskiy Sovet narodnogo khozyaystva, Sektsiya obrabtki metallov davleniyem Leningradskogo oblastnogo pravleniya NTO Mashprom (Leningrad Council of the National Economy, Section of Metal Pressworking at the Leningrad Oblast Board of the Scientific and Technical Society of the Machine Industry) and Leningradskiy mekhanicheskii institut (Leningrad Mechanical Engineering Institute). Actual problems in the modernization, operation, and repair of die-forging equipment are described. Analyses are provided for problems involved in the mechanization and automation of die-forging and stamping operations. Also included are practical data to be used in the modernization of equipment. No personalities are mentioned. There are 59 references: 56 Soviet, 2 German, and 1 English.

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red.

[Modernization of forging and die stamping equipment] Modernizatsiia
kuznochno-shtampovohnogo oborudovaniia. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1961. 226 p. (MIRA 14:6)
(Forging machinery) (Sheet metal working machinery)