ATAMALYAN, E.G.; KONSTANTINOV, V.I.; KOMAROV, V.I.; LAPSHIN, N.S.; SIMONOV, A.F.; TOVSTOLES, V.Ya.; EMDINA, S.M.; PONOMARENKO, V.K., prof., red.; KHRUSTALEVA, N.I., red.; GOROKHOVA, S.S., tekhn. red.

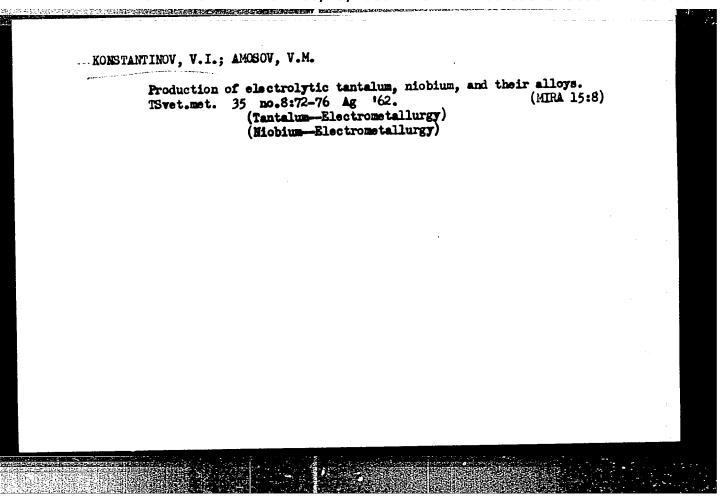
[Methodology for solving general electrical engineering problems]Metodika resheniia zadach po obshchei elektrotekhnike. [By] E.G.Atamalian i dr. Pod red. V.K.Ponomarenko. Moskva, Vysshaia shkola, 1962. 167 p. (MIRA 15:12) (Electric engineering)

KONSTANTINOV, Vasiliy Ivanovich; SIMONOV, Anton Fedorovich. Prinimal uchastiye ANOSOV, Yu.I.; KHRUSTALEVA, N.I., red.; GARINA, T.D., tekhn. red.

[A collection of practical problems and exercises in electrical engineering]Sbornik prakticheskikh primerov i zadach po obshchei elektrotekhmike. Moskva, Vysshaia shkola, 1962. 269 p.

(MIRA 15:10)

(Electric engineering--Problems, exercises, etc.)



KONSTANTINOV, Vasiliy Ivanovich; MANSUROV, Nikolay Nikolayevich; SIMONOV, Anton Fedorovich; FEDOROV-KOROLEV, Anatoliy Alekseyevich; ZHUKHOVITSKIY, B.Ya., dots., kand. takhn. nauk, red.; BULGAKOV, V.A., red.; BORUNOV, N.I., tekhn. red.

[Problems on theoretical electrical engineering]Sbornik sadach po teoreticheskoi elektromekhanike. [By]V.I.Konstantinov i dr. Izd.3., dop. Moskva, Gosenergoisdat, 1962. 191 p. (MIRA 16:3) (Electric engineering)

ACCESSION NR: AP4029251

S/0125/64/000/004/0005/0009

AUTHOR: Rabkin, D. M. (Doctor of technical sciences); Ivanova, O. N. (Engineer); Ipatova, S. I. (Engineer); Romanova, V. N. (Engineer); Konstantinov, V. I. (Engineer)

TITLE: Effect of the addition of oxides of some rare and rare-earth metals upon the characteristics of tungsten electrodes

SOURCE: Avtomaticheskaya svarka, no. 4, 1964, 5-9

TOPIC TAGS: welding, welding electrode, tungsten welding electrode, argon arc welding, lanthanated tungsten welding electrode

ABSTRACT: Despite the fact that information regarding the harmful effects of naturally-radioactive thorium in thoriated-W electrodes on human beings had been "contradictory," the possibility of replacing Th was investigated. A 4-mm tungsten wire was prepared by powder-metallurgy methods with the addition of La, Gd, Y, Nd, Ce, Er, Sm, Dy, or Hf. Depending on the mechanical characteristics of the processed electrode, the addition was introduced either into the

Card 1/2

ACCESSION NR: AP4029251

W anhydride or into the W powder. It was found that W electrodes with oxides of Er, Dy, and Sm, in their processing characteristics, are inferior to thoriated-W electrodes but superior to pure-W electrodes. The electrodes with 1-2% of La₂O₃ were found to have the best technological characteristics; they are similar to thoriated-W electrodes and are characterized by the lowest consumption and highest current density. The welding current was 250 amp, at 65 v, with a 3-mm arc. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Institute of Electric Welding, AN UkrSSR); Moskovskiy elektrolampovy*y zavod (Moscow Electric-Bulb Plant)

SUBMITTED: 12Dec62

DATE ACQ: 27Apr64

ENCL: 00

SUB CODE: MM

NO REF SOV: 005

OTHER: 002

Card 2/2

KONSTANTINOV, V.I.

Investigating the process of the high-temperature sintering of tungsten. Porosh. met. 5 no.10:27-37 0 '65. (MIRA 18:11)

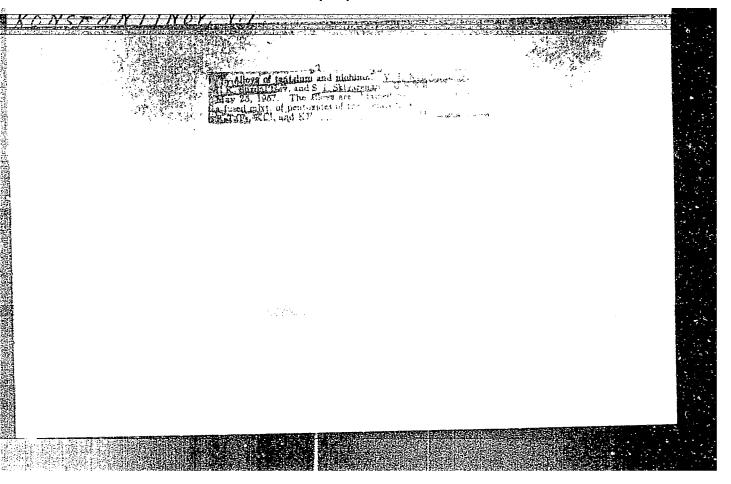
1. Institut khimii i tekhnologii redkikh elementov i mineral'nogo syr'ya, gorod Apatity.

KONSTANTINOV, Vasiliy Ivanovich; SIMONOV, Anton Federevich; MIKHEYEV, Yu.A., prepodavatel; retsenzent; BASAVINA, Ye.V., red.

[Collection of practical examples and problems in general electrical engineering] Sbornik prakticheskikh primerov i zadach po obshchei elektrotekhnike. Moskva, Vysshaia shkola, 1965. 226 p. (MIRA 18:8)

1. TSentral'nyy zaochnyy lesotekhnicheskiy tekhnikum (for Mikheyev).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R00082441001



KONSTANTINOV, V. I. (Mekhanobr)

"Layout as some of the largest Soviet beneficiation works"

report presented at the 4th Scientific and Technical Session of the Mekhanobr Inst, Leningrad, 15-18 July 1958

NOMETHALLMAN A. L.

18(0)

PHASE I BOOK EXPLOITATION

SOV/3212

Samsonov, Grigoriy Valentinovich, and Vladimir Ivanovich Konstantinov

Tantal i niobiy (Tantalum and Niobium) Moscow, Metallurgizdat, 1959. 264 p. Errata slip inserted. 3,150 copies printed.

Reviewers: N. S. Nikolayev, Doctor of Chemical Sciences; A. I. Vaysenberg, Candidate of Technical Sciences; and O. P. Kolchin, Candidate of Technical Sciences; Eds.: A. I. Vaysenberg and O. P. Kolchin; Ed. of Publishing House: M. S. Arkhangel'skaya; Tech. Ed.: Ye. B. Vaynshteyn.

PURPOSE: This book is intended for engineers and research workers in the metallurgical, chemical, electrical, electronics, and other industries engaged in the production or use of tantalum, niobium, and their alloys. It may also be used as a textbook by students at metallurgical schools of higher education.

COVERAGE: The book deals very generally with tantalum and niobium. The properties, applications, geochemistry, minerals and ores, processing, metalurgy, forming, and machining of these elements are discussed. Their alloys, including metallic and nonmetallic components; are also dealt with, the information being based on experimental work conducted by the authors and on published material. Aspects of ore beneficiation, analytical chemistry,

Card 1/4

Tantalum and Niobium

SOV/3212

and the chemistry of the principal compounds of tantalum and niobium are discussed to a lesser extent. The following personalites are mentioned: O. A. Songina, A. N. Zelikman, O. Ye. Kreyn, and G. A. Meyerson. There are 556 references: 163 Soviet, 264 English, 105 German, 14 Swedish, 7 French, 2 Belgian, and 1 Czech.

TABLE OF CONTENTS:

Preface	-
Ch. I. General Information on Tantalum and Niobium 1. Properties of tantalum and niobium 2. Properties of the principal compounds of tantalum and niobium 3. Applications of tantalum, niobium, and their principal compounds 4. Economics of tantalum and niobium	19 33 4
Ch. II. Minerals, Ores, and Concentrates of Tantalum and Niobium	51
Ch. III. Metallurgy of Tantalum and Niobium A. Basic processing flow sheets for treating ore concentrates 1. Fusion with alkalies 2. Treatment with sulfuric acid 3. Treatment with hydrofluoric acid or fluorides	69 69 69 73
Card 2/4	

4. Chlorination	72
5APPROMED FOR RELEASE: 06/19/2000 CIA-RDP86-00513	
6. Extraction of tantalum and niobium from tin concentrates	78
B. Separation of tantalum and niobium	70
1. Separation as complex fluorides	79
2. Separation by hydrolysis of oxalates	80
 Separation by rectification of volatile compounds 	80
4. Separation by selective reduction of niobium compounds.	-81
5. Separation with ion-exchange resins	E
6. Separation by extraction	83
C. Reduction of tantalum and niobium from their compounds	87
1. Production of tantalum and niobium powders	89
D. Production of compact metals	108
Ch. IV. Mechanical Working and Heat Treatment of Tantalum and Niobium.	
Manufacture of Products. Welding	125
1. Mechanical working	123
2. Cleaning tantalum and niobium surfaces	127
3. Heat treatment of tantalum and niobium	128
4. Welding	132
Card 3/h	

18(5)

SOV/135-59-8-2/24

AUTHORS:

Tret'yakov, F.Ye., Candidate of Technical Sciences, Rogozhkina, I.K., Technician, Konstantinov, V.I., Candidate of Technical Sciences, and Polyakov, Ya.

M. Engineer

TITLE:

Argon Shielded Arc Welding of Tantalum

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 8, pp 5-7 (USSR)

ABSTRACT:

The acceleration in the development in the chemical industry, which was urged by the plenary session of the Central Committee of the Communist Party of the Soviet Union in May 1958, depends to a considerable degree on the use of new, highly effective alloys and metals. Especially important in this connection is tantalum, which is very refractory and extremely resistant to corrosion, mainly in regard to acids. In the following part of the article the main physical and mechanical qualities of tantalum are compared with those of titanium, aluminum, and iron (Tables 1 and 2). In spite of its relatively low strength tan-

Card 1/5

talum is used in a number of industrial branches.

Argon Shielded Arc Welding of Tantalum

SOV/135-59-8-2/24

Especially in the chemical industry it is used because of its high resistance to corrosion. In the following part the authors speak about the use of tantalum in the USA and about the different ways the metal is used. The wide application of tantalum made it necessary to work out methods for welding this metal. The foreign literature discusses some aspects of arc welding of tartalum. There are however, no data given about the technology employed in producing the welds, and the welding equipment is not described. In Soviet literature, there are no publications about argonshielded arc-welding of tantalum. Therefore, the authors give some data for the welding of Soviet tantalum. Tantalum plates (lamellas) of 75x150 mm with a thickness of 1.0, 1.5, 2.0 and 2.5 mm were used for the experiments. Before the welding the plates were ungreased. Argon was used to shield the arc and the welding. The electrodes were made of wolfram. In setting up the working data for the welding, the directions given in the literature and the experiences aquired in welding titanium, which is similar to tan-

Card 2/5

Argon Shielded Arc Welding of Tantalum

SOV/135-59-8-2/24

٧γ

B)

talum, were utilized. The welding current, the arc voltage, and the diameter of the wolfram electrode were determined by the strength of the welding samples. The shielding of the front and back side of the seam was attained by using burners, welding heads and fix-tures, which are usually taken in welding titanium. The working data of the welding are given in table 3. The quality of the welded joints was controlled by surface tests and X-ray photography, which was used for a strength up to 2.0 mm. If the plates were thicker than 2 mm, they were radiographed with gamma-rays of the radioactive material thulium 170. The best results were obtained with argon which contained 0.01% of nitrogen and carbon. The mechanical qualities of the weldings were determined on standardized samples. Breaking and bending tests were carried out and the corrosive qualities of the welds determined. The tests showed, that the durability and the bending angle of the weld were equal to the durability and the bending angle of the basic metal in non-chilled condition. The plasticity of the welds was tested by

Card 3/5

Argon Shielded Arc Welding of Tantalum

507/135-59-8-2/24

hammering on the welding seams. The metallographic inspection of the welded joints and of the adjacent zones showed that a coarse crystalline structure is formed in the seam. The size of the grain decreases with the distance from the joint. At a distance of 3-5 mm from the seam the metal is finely granulated. The resistance to corrosion of the basic material and of the tantalum welds was determined with samples which were put into tightly soldered glas ampoules filled with nitric acid of 32% and sulphuric acid of 20% concentration. The results of the corrosion tests showed that the welds resisted corrosion in this solution. The corrosion in the welds did not exceed that of the whole sample, and the mechanical qualities practically do not change at all. vestigation permits the following conclusions: it is well possible to weld tantalum with an unmeltable electrode of argon within direct current and with negative poling of the electrode. Welding with tantalum it is necessary to shield the weld from influences of the atmosphere on front and back side.

Card 4/5

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410015

Argon Shielded Arc Welding of Tantalum

SOV/135-59-8-2/24

outside is shielded by pure argon of 99.98% concentration, which comes out of the welding head. The backside of the welded joint is shielded by admitting argon over a grooved shim. There are 6 tables, 4 photographs and 6 references, 3 of which are Soviet and

Card 5/5

82445

18.1200

\$/149/60/000/004/009/009

Babkin, Yu.A., Tomashov, N.D., Titov, V.A., Konstantinov, V.I.

TITLE:

Corrosion Resistance of Tantalum-Niobium Alloys in Sulfurous Acid

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,

1960 No. 4, pp. 153-156

The authors investigated the corrosion resistance of tantalum-niobium TEXT: alloys in sulfurous acid at various temperatures. The alloys were prepared of electrolytic powders by the metalloceramic method and subsequently rolled into sheets. Specimens were cut out of the unannealed sheets. The tests were performed with specimens of pure tantalum and niobium and their alloys with a Ta content of 21.6; 34; 48.9; 51.1; 67.3 and 70.8 atomic %. The amount of admixture in the alloys did not exceed 0.1%. Prior to the tests the specimens were polished, washed and degreased. Corrosion tests were performed at 20 and 60°C with flasks with ground stoppers. At 110 and 150°C the experiments were carried out with soldered glass ampoules placed in metal cylinders with screwed-on stoppers. To prevent the destruction of ampoules by internal pressure, the cylinders were filled with water whose vapors produced the necessary counter-pressure. The flasks and cylinders were kept in a thermostat for 20 hours. During the tests, measurements

Card 1/3

82445 8/149/60/000/004/009/009

Corrosion Resistance of Tantalum-Niobium Alloys in Sulfurous Acid

were taken of the corrosion rate (in g/m² hr); proneness to crystallite corrosion; changes in the mechanical properties, and electrode potential. The irreversible electrode potential was measured every 5-10 minutes during 3-4 hours by the conventional potentiometric circuit. A calomel electrode served as a comparison electrode. The following results were obtained: Corrosion of pure niobium and niobium alloys with 21.6; 34 and 48.9 atomic % Ta was observed in 90% H2SO4 at 110°C. An increased Ta content made the alloys corrosion resistant in the same degree as pure Ta. Proneness to crystallite corrosion was not observed. During the corrosion process changes in the mechanical properties of niobium and the alloy with 21.6% Ta took place as a result of hydrogenization. In 90% H2SO4 at 60°C, niobium corrosion depended linearly on the holding time at a mean rate of 0.354 g/m².hour. The niobium alloy with 21.6% Ta corroded noticeably after 100 hrs. Maximum hydrogenization of niobium at 110°C was observed in 60% H2SO4. Niobium and its alloy with 21.6% Ta corroded, depending on the temperature, according to the exponential equation

 $K = Ae \overline{RT}$

where A is the constant; Q is the activation energy of the process in cal/mole;

Card 2/3

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410015-6"

68591

\$/156/60/000/01/012/021 E091/E255

125100 AUTHORS:

... #

Konyushenko, A. T., Golovkin, R. V., Konstantinov, V. I.,

and Polyakov, Ya. M.

THE TAX STREET STREET STREET, STREET STREET, S

Manufacture of Tantalum Tubes

PERIODICAL: Tsvetnyye metally, 1960, Nr 1, pp 60-67 (USSR)

ABSTRACT: The authors have developed a new and efficient technique for fabricating metal tubes, among them tantalum tubes. The process consists in butt-welding strip and forming it into tubes; these are welded by argon arc in an existing reconstructed automatic electric welding tube mill and subsequently passed through rolling mills (Fig 1),
The dimensions of the original strip are determined by the size of the tube required and the possibility of its manufacture in a given plant. The application of clamps and directing instruments in rolling prevents scrap due to strip coming out in a crescent-shaped form. Cutting of the strip edges is carried out with disc shears. Pieces of strip were butt-welded by argon arc welding in the modernized automatic machine "ADS-1000-2" by constant direct current (experiments on the welding of tantalum strip with alternating current have not given

Card 1/3

68591

5/136/60/000/01/012/021 E091/E255

Menufacture of Tantalum Tubes

satisfactory results). Tungsten rods (VT-15) containing 1.5% thorium oxide were used as electrodes. Saturation of tantalum with nitrogen and oxygen increases the hardness and brittleness of the metal. To prevent this effect the welding zone (the pool of molten metal and the joint both sides of the strip along a length of 50 to 70 mm) was protected by inert gas (argon containing 0.23% nitrogen and 0.05% oxygen) (see Table 1). The strip can be annealed either before butt-welding or after welding and cleaning of the joint. Annealing was carried out by soaking for 1.1/2 hours in an electric vacuum furnace by soaking for 1.1/2 hours in an electric vacuum furnace of the TSEP-273 type, at a temperature of 1200°C with a residual pressure of 10 mm Hg. The weight of the charge was 30 to 40 kg. was 30 to 40 kg. Prior to being charged into the furnace the strip was thoroughly washed with acetone. The annealed strip had a UTS (ob) of 51 kg/mm², a percentage elengation (\$\delta\$) of 24.8% and a Rockwell hardness (HRE) of 75; the above mechanical properties show that although not fully annealed, the strip was annealed sufficiently to be formed into tube billets (Table 2). In the continuous forming of the tantalum strip the shaping

Card 2/3

68591 8/136/60/000/01/012/021 E091/E255

Manufacture of Tantalum Tubes

rolls used were graduated and had groove profiles as shown in Fig 2. Argon was applied to the internal surface of the joint through the end of a hollow rod which was fixed between the fifth and sixth shaping stands. Argon was also applied to the external surface of the joint, by a supplementary nozzle (Fig 3). The best results in the welding of tantalum tubes were obtained when the welding procedures indicated in Table 3 were applied. Table 4 shows the test results on welded tube specimens at Various annealing temperatures. In Table 5 the best rolling method for tantalum tubes is given. Tubes of niobium, tantalum, cobalt and their alloys have been fabricated by the new technique. There are 3 figures, 5 tables and 3 Soviet references.

ASSOCIATIONS: Moskovskiy trubnyy zavod (Mcscow Tube Works (first two authors)) Moskovskiy elektrolampovyy zavod (Moscow Electric Lamp Works (last two authors)) Card 3/3

S/136/61/000/004/002/006 E021/E135

AUTHOR:

Konstantinov, V.I.

TITLE:

The Production of a Mixture of Tantalum and Niobium Pentoxide by Decomposition of Tantalite-Columbite by Fusing with Caustic Potash

PERIODICAL: Tsvetnyye metally, 1961, No. 4, pp. 35-38

concentrates is by fusion with caustic soda (Ref.1). The main disadvantage of this method is that the extraction of the main metals is not sufficiently high. Experiments were therefore carried out using caustic potash. The chemical composition of the out using caustic potash. The chemical composition of the concentrates used was as follows: Ta205 - 44,4%; Nb205 - 16.1%; A1203 - 3.7%, Na20 - 1.7%, W03 - 0.2%, Mn0 - 5.3%, Sn02 - 4.4%; The effect of temperature on the decomposition is shown in Fig.1, vs. temperature. OC: residue of undecomposed mineral, %, vs. temperature, oc. curve 1 - concentrate: KOH = 1:2; curve 2 - concentrate: KOH = 1:3.

Fusion is practically complete at 700-750 oc. Tests on the cold fused product showed that leaching without boiling gave an Card 1/4

> CIA-RDP86-00513R000824410015-6 APPROVED FOR RELEASE: 06/19/2000

S/136/61/000/004/002/006

The Production of a Mixture of Tantalum and Niobium Pentoxide by Decomposition of Tantalite-Columbite by Fusing with Caustic Potash extraction of Ta205 + Nb205 of 69.1%, and with boiling, 73.3%. The optimum solid: liquid ratio was 1:4. After filtration, a precipitate remained which consisted largely of iron and manganese hydroxide. It was found to be sufficient to wash this precipitate twice using a 5% caustic potash solution. The precipitate, which contains some niobium and tantalum pentoxide, is roasted and can be added directly to the concentrate or treated with hydrochloric acid and fused potash. Investigations on the precipitation of sodium tantalate and niobate by addition of saturated sodium hydroxide to the solution obtained after leaching were carried out. quantities were tried and in all cases a fine-grained precipitate was obtained. The relation between the quantity of Ta205 + Nb205 extracted in this process and the quantity of sodium hydroxide added is shown in Fig. 2. It was found that addition of dilute hydrochloric acid (1:1), with a solid: liquid ratio of 1:6 and roasting at 800 oc gave an extremely pure mixture with a

and the state of t

S/137/62/000/007/020/072 A052/A101

AUTHORS:

Konstantinov, V. I., Amosov, V. M., Kholobes, Ye. A.

TITLE:

The production of electrolytic tantalum, niobium and their alleys.

2nd report

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 46 - 47, abstract 7G323 ("Poroshk. metallurgiya", no. 5, 1961, 42 - 52; English

summary)

Three types of electrolyzer designs with different methods of heating TEXT: were tested. As a result of experiments, an optimum electrolyzer design has been developed in which the electrolyzer itself (made of Ni or nichrome) serves as a cathode, without additional heating, with a hole in the conical bottom and with a mobile graphite anode. Furthermore, the effect of the following factors was studied: the method of feeding the electrolyzer, the degree of filling the bath with the cathode deposit, the composition of electrolyte, the temperature of the process, the cathode, anode and volume current density. The purification of electrolytic Ta and Nb powders from electrolyte salts was realized by heating

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R00082441

S/078/63/008/001/004/026 B101/B186

AUTHORS:

Konstantinov, V. I., Ts'ui Ping-hsing

TITLE:

Melting point and thermal stability of potassium tantalum

PERIODICAL:

Zhurnal neorganicheskoy khimii, v. 8, no. 1, 1963, 47-51

TEXT: Strongly differing publication data on the behavior of potassium tantalum fluoride and its importance for the electrolytic production of tantalum were the reason for determining melting point and point of polymorphous conversion of K2TaF7 in argon, and for recording the cooling ${\rm K_2TaF_7}$ was synthetized by dissolving metallic Ta in HF in a platinum crucible and precipitation with KF. Moreover, commercial. specimens were also compared with each other. Result: m.p. $775 \pm 2^{\circ}C$, polymorphous conversion at $741 \pm 2^{\circ}C$. In conformity with the cooling curve, visual observation showed that quick crystallization sets in when the m.p. is reached, and the melt is already completely solidified at 2-4 below the m.p. The melt remains transparent up to the temperature of

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 Melting point and thermal...

polymorphous conversion; at this point it turns opaque white. Experiments in air showed that liquid K2TaF7 is stable in air, which was confirmed by chemical and X-ray analysis. The $K_2^{TaF}_7$ vapor, however, decomposes in air and an oxygen containing compound melting at higher temperature is formed, which condenses to colorless crystals, but above 1150°C to dark blue crystals. The data by P. Drossbach, P. Petrick (Z. Electrochem. Ber. Bunsenges. phys. chem., 61, 410 (1957)) on the formation of potassium oxy-tantalum fluorides in the melt were not confirmed. Repeated melting of K2TaF7 produced unchanged X-ray patterns. There are 3 figures and 3 tables.

SUBMITTED: February 20, 1962

S/078/63/008/002/007/012 B101/B186

AUTHORS:

Ts'ui Ping-hsin, Luzhnaya, N. P., Konstantinov, V. I.

TITLE:

Investigation of the ternary reciprocal system of potassium and tantalum fluorides and chlorides

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 2, 1963, 389 - 395

TEXT: Both the system KF - KCl - K2TaF7, which is important for the electrolytic production of tantalum, and the systems ${\rm K_2^{TaF}}_7$ - KCl and ${\rm K_2^{TaF}}_7$ were investigated. Differing from T. Juchi et al. (Bull. Res. Inst. Mineral Dress. and Metallurgy Tohoku Univ., 15,87 (1959)) it was found in the binary systems that the compounds K2TaF7.KCl (N = 1.434) and K2TaF7.KF (Ng = 1.423, $N_{m} = 1.420$, $N_{p} = 1.416$) melt congruently at 776°C and undergo a polymorphic transformation at 7410C. In the system containing KCl two eutectics exist; the one, m.p. 712°C, at 16 mole% KCl, the other, m.p. 700°C, at 82.4 mole%. In the system with KF, the eutectic containing 21.5 mole% KF melts at 7170c, the one containing 74.5 mole% KF at 727°C. The system KF - KCl - K2TaF7 may ; Card 1/3

Investigation of the ternary ...

S/078/63/008/002/007/012 B101/B186

be subdivided into two independent secondary systems: The ternary system K₂TaF₇·KF - K₂TaF₇·KCl - K₂TaF₇ and the system corresponding to the exchange reaction KCl + K₂TaF₇·KF = KF + K₂TaF₇·KCl. For KCl, KF, K₂TaF₇·KCl, K₂TaF₇·KF, α-K₂TaF₇·KF = KF + K₂TaF₇·KCl. For KCl, KF, K₂TaF₇·KCl, K₂TaF₇·KF, α-K₂TaF₇, β-K₂TaF₇ the primary crystallization regions were determined. The invariant points have the following position: E₁ at 5800C and 41.5 mole% KF, 51.5 mole%. KCl, 7.0 mole% K₂TaF₇; E₂ at 710°C, 11.6 mole%KF, 8.7 mole% KCl, 79.7 mole%. K₂TaF₇; P at 678°C, 62.0 mole% KF, 19.0 mole% KCl, 19.0 mole% K₂TaF₇. From the partially plotted phase diagram of the system K,Ta||Cl,F it follows that the compound KCl·2KF·TaF₅ (or K₂TaF₇·KCl), melting congruently at 776°C, exists and that the cross section (KCl)₅ - K₂TaF₇ is a stable binary system. From the investigation of the melting-point diagram of KF - KCl - K₂TaF₇ it followed that in the usual electrolyte used for the production of tantalum or Ta-Nb alloys only KCl, KF and K₂TaF₇·KCl exist before Ta₂O₅ or Nb₂O₅ are added, and that no free K₂TaF₇ or K₂TaF₇·KF are Card 2/3

s/078/63/008/002/008/012 B101/B186

AUTHORS:

Ts!ui Ping-hsin, Konstantinov, V. I., Luzhnaya, N. P.

TITLE:

Phase solubility and interaction in systems containing Ta205,

potassium and tantalum fluorides and chlorides

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 2, 1963, 396 - 402

TEXT: To clarify the electrochemical processes used for producing tantalum the following partial systems belonging to the quaternary reciprocal system K,Ta||F,Cl,O were investigated: All binary systems of the tetrahedron (KCl)₁₀ - Ta₂O₅ - K₂TaF₇ - (KF)₁₀, except KCl - KF, partially the systems K,Ta||F,Cl and K,Ta||FO and the cross sections K₂TaF₇·KCl - Ta₂O₅ and KCl - Ta₂O₅·2K₂TaF₇. It was found that the solubility of Ta₂O₅ in KCl at 950°C is only 0.04% by weight, whereas the solubility of Ta₂O₅ in KF at 1122°C is 35% by weight. In the system KF - Ta₂O₅ an eufectic was found at 853°C and 1.8% by weight Ta₂O₅. Above this concentration of Ta₂O₅ there occurs a

Card 1/3

Phase solubility and interaction ...

S/078/63/008/002/008/012 B101/B186

compounds K₃TaO₂F₄ and K₂TaO₂F₃ was proved by the shape of the liquidus isotherm. These were formed as a result of the reactions 2(Ta₂O₅·2K₂TaF₇) + 16KF = 4(K₂TaF₇·KF) + 5K₃TaO₂F₄ (3) and K₃TaO₂F₄ = KF + K₂TaO₂F₃ (4). Accordingly, Ta₂O₅ and Ta₂O₅·2K₂TaF₇ are decomposed by KF and form the potassium oxyfluorotantalates K_nTaO₂F_m (n = 1,2,3; m = 3,4). As a result of the reaction (4) the solubility of Ta₂O₅·K₂TaF₇ in the electrolyte reaches 60 mole% at 868°C. Final conclusion: Within the temperature range 750 - 850°C of the electrolysis, the compounds K₂TaF₇·KCl, K₃TaO₂F₄ or K₃TaO₂F₃ exist in the usual electrolyte besides KF and KCl, playing an important role in the electrolytical process. There are 5 figures and 3 tables.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences USSR); Moskovskiy elektrolampovyy zavod (Moscow Electric Lamp Plant)

SUBMITTED: Card 3/3 July 4, 1962

RABKIN, D.M.; IVANOVA, O.N.; IPATOVA, S.I.; ROMANOVA, V.N.; KONSTANTINOV, V.I.

Effect of the addition of certain rare and rare-earth metal oxides on the properties of tungsten electrodes. Avtom. :var.17 no.4: 5-9 Ap '64 (MIRA 18:1)

1. Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (for Rabkin, Ivanova). 2. Moskovskiy elektrolampovyy zavod (for Ipatova, Romanova, Konstantinov).

L 5323-66 EWP(e)/EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c)

AP5026271 MJW/JD/JG

UR/0226/65/000/010/0027/0037

AUTHOR: Konstantinov, V. I.

TITLE: Investigation of the process of the high-temperature sintering of tungeten

SOURCE: Poroshkovaya metallurgiya, no. 10, 1965, 27-37

TOPIC TAGS: sintering, tungsten, sintering furnace, metal powder, porosity, electric conductivity

ABSTRACT: The high-temperature (2800-3200°C) sintering of tungsten is a major stage in the production of this metal by the powder-metallurgical method. The sintered rods are heated to such high temperatures chiefly by passing electric current directly through them. In this connection the authors investigated the attendant changes in the properties of VA tungsten (0.45% SiO₂ + 0.45% KCl and 0.03-0.05 Al₂O₃) as well as of pure tungsten. The metal powders were first pressed into rods measuring 9x9x400 mm. And, prior to their high-temperature sintering, the rods underwent preliminary sintering at 1150-1200°C in hydrogen muffle furnaces for 30 min (VA tungsten) and at 900-1000°C for 20 min and, subsequently, 1250-1300°C for 40 min (pure tungsten). The high-temperature sintering itself was performed in a special hydrogen furnace with current of 2300-2400 a (VA tungsten) and 2500-2600 a (pure tungsten). After this, the change in density was determined gravimetrically and the shrinkage, by the change in the length of the rods. Findings: for VA tungsten, marked shrinkage begins

Card 1/3

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410015-6

4 2223-00

ACC NR: AP5026271

at 1450-1500°C, whereas for pure tungsten it begins at 1800 and at a slower rate. The density of VA rods is correspondingly greater than that of the rods of pure tungsten. This is apparently attributable to the greater dispersity of the powder of VA tungsten compared with that of pure tungsten. This has a corresponding effect on porosity, which is greater in pure-tungsten rods. As for the changes in chemical composition, high-temperature sintering leads to the gradual evaporation of the additives, such that the sintered VA tungsten rods contains only an average of 0.22% K20, 0.35% SiO2, and 0.045% Al₂0₃. The changes in grain structure were determined by examination of microsections of rods sintered at different temperatures. It was established that grain growth commences at 1800°C and becomes particularly marked above 2700°C; this process is more pronounced in pure-tungsten rods than in VA-tungsten rods, which accounts for the smaller shrinkage, lower density and, correspondingly, higher porosity of the former. It is further established that, beginning with 1600°C, pure-tungsten rods have a smaller electric conductivity than VA-tungsten rods, which also is in agreement with the findings on density and porosity of the rods. Similarly, above 1600°C, the hardness of pure-tungsten rods becomes smaller than that of VA-tungsten rods, owing to the greater shrinkage of the latter. Orig. art. has: 8 figures, 1

ASSOCIATION: Institut khimii i tekhnologii redkikh elementov i mineral nogo syr'ya, Apatity (Institute of the Chemistry and Technology of Rare Elements and Mineral

Card 2/3

4,55

Card 3/3 /40

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410015-6

And the Market of Market of the Market of Mark

Olid: nona

TITLE: An catematic compensation refractometer. Class 42, No. 10/479

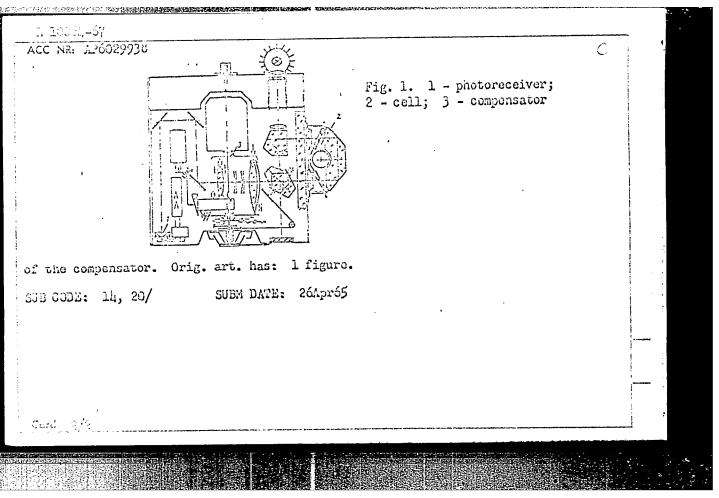
SCURCE: Izobret prom obraz tov zn, no. 15, 1966, 96

TOPIC TACS: refractometer, optic measurement, measuring instrument, automatic control idealgn

ABSTRACT: This Author Certificate presents an automatic compensation refractometer. with a differential photoreceiver, an optical compensator, and a cell (see rig. 1). The design increases the precision of the measurement. The compensator in the refractometer is a lens compensator, consisting of an objective lens, two negative lenses, and a positive lens which moves in a plane perpendicular to the optical axis

Card 1/2

WDC: 535.322.4



ANTONOV, M.A.; KONSTANTINOV, V.L., elektromekhanik

Device for checking the fields of step-by-step switches. Avtom., telem. i sviaz 7 no.6:29-31 Je '63.

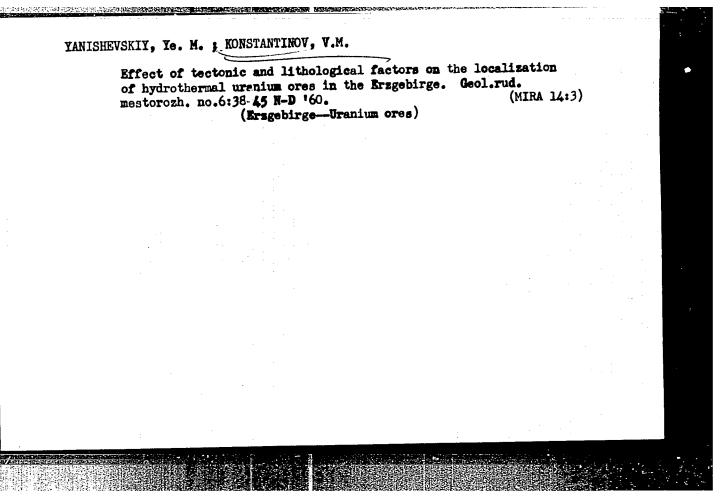
(MIRA 17:3)

1. Rizhskaya distantsiya signalizatsii i svyazi Pribaltiyskoy dorogi.

KONSTANTINOV, V.M.

The All-Union Construction Exhibition. Sel'.stroi. 10 no.1:6-7
Ja '55. (MIRA 8:4)

1. Nachal'nik otdela "Zhilishchnogo i sel'skokhozyaystvennogo stroitel'stva" Vsesoyuznoy stroitel'noy vystavki.
(Moscow—Construction industry—Exhibitions)



KONSTANTINOV, V.M.

Possibility of using the biogeochemical method in prospecting for uranium in an arid climate. Sov.geol. 6 no.3:151-155 Mr 163.

(Geochemical prospecting) (Uranium ores)

KONSTANTINOV, V.M.; YANISHEVSKIY, Ye.M.

Using primary hales of dispersion for the estimation of the ore potential of disjunctive dislocations. Geol. rud. mesterosh. 5 no.2:126-127 Mr-Ap ¹63. (MIRA 16:6)

(Geochemical prospecting)
(Ore deposits)

100 ENT 1 IN/ON 100 EST 100 NR: AP5022499

UR/0089/65/018/006/0652/0659

AUTHOR: Konstantinov, V. M.

TIME: Use of tracer elements in the evaluation of radioactive anomalies in arid climate regions

SOURCE: Atomnaya energiya, v. 18, no. 6, 1965, 657-659

TOPIC TAGS: geochemistry, uranium, fissionable metal ore

ABSTRACT: Geochemical studies or arid climate regions fou i that in the areas bearing radioactive ore anomalies the mellow soils showed the presence of dispersion halos of uranium, lead, zinc, cobalt, molybdenum and arsenic which are the elements forming the endogenic dispersion halos around uranium ore bodies. In places where transmir anomalies were absent only uranium and lead traces were present. It was suggested that in arid climate areas the tracer elements of uranium deposit dispersion halos can be used in prospecting for radioactive ore-bearing anomalies. Orig. art. has 2 figures and 1 table.

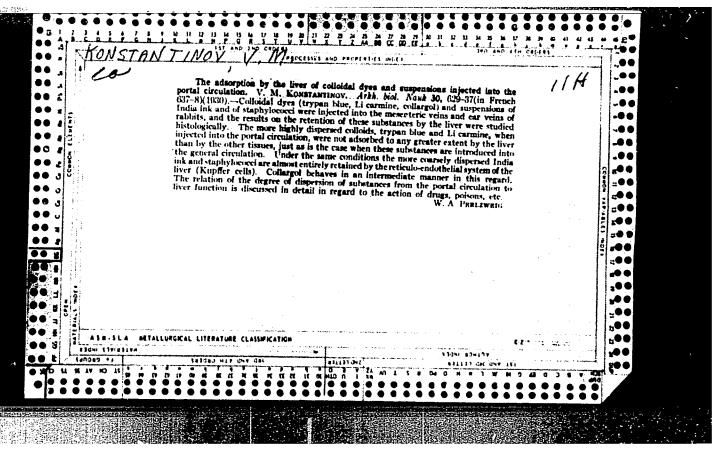
ASSOCIATION: none SUBMITTED: OlApr64

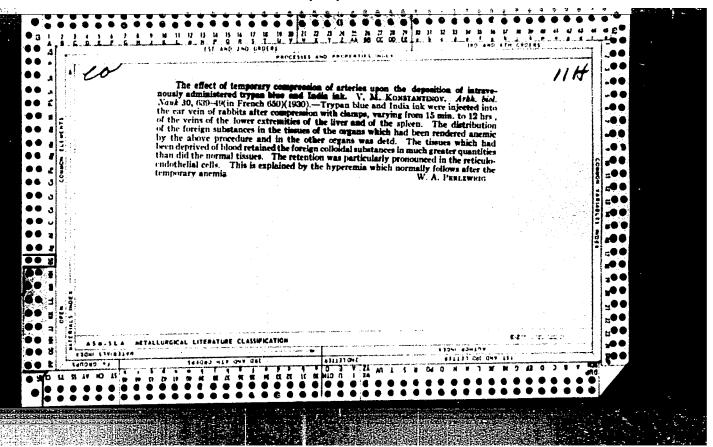
NO REF SOV: 000 .

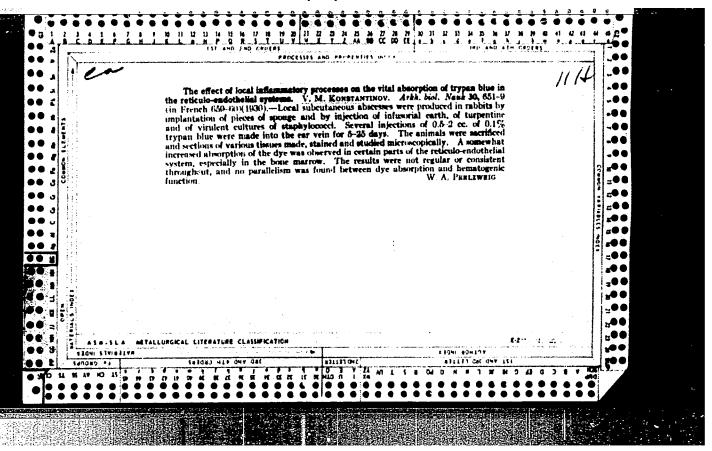
ENCL: 00 OTHER: 000 SUB CODE: MM, ES

NA

Card IA







Echinococcus cysticus. Fel'd. i akush. 23 no.11:8-10 N'58
(MIRA 11:11)
(LIVER-HYDATIDS)

BREGADZE, I.L., prof.; KONSTANTINOV, V.M., prof.

Errors in determining the type of larval forms of echinococcus in man. Sov.med. 25 no.8:77-80 Ag '60. (MIRA 13:9)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. I.L. Bregadze) i kafedry patologicheskoy anatomii (zav. - prof. V.M. Konstantinov) Novosibirskogo meditsinskogo instituta (dir. - prof. G.D. Zalesskiy). (ECHINOCOCCOSIS)

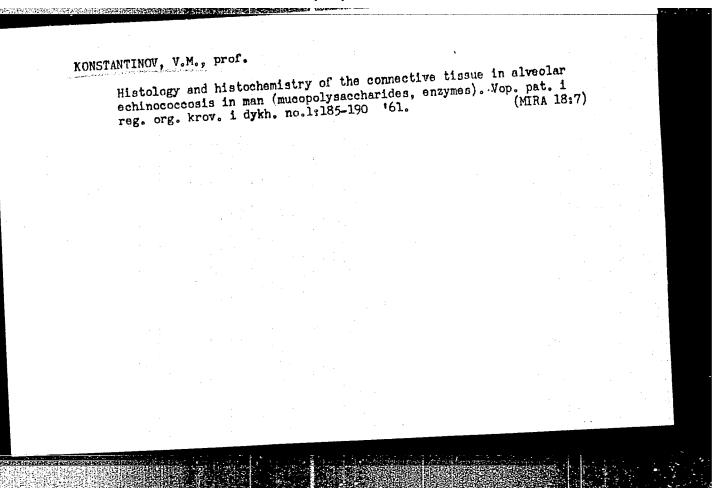
BREGADZE, Iosif Lavrent'yevich, prof.; KONSTANTINOV, Vitaliy

Mikhaylovich, prof.; SIMONYAN, K.S., red.; MAIVETEVA,

M.M., tekhm. red.

[Alveolar echinococcosis (alveococcosis)] Al'veoliarnyi
ekhinokokkoz (al'veokokkoz). Moskva, Medgiz, 1963. 222 p.

(MIRA 16:12)



SHAKHUNYANTS, Georgiy Mikhaylovich, doktor tekhm. nauk; AMELIN, S.V., prof., retsenzent; KONSTANTINOV, V.N., dots., retsenzent; SMIRNOV, M.P., retsenzent; YAKOVLEV, V.F., retsenzent; BOCHENKOV, M.S., kand.tekhn. nauk, retsenzent; BROMBERG, Ye.M., retsenzent; YERSHKOV, O.P., retsenzent; ZVEREV, B.N., retsenzent; ZOLOTARSKIY, A.F., retsenzent; IVASHCHENKO, G.I., retsenzent; LINEV, S.A., retsenzent; MARKAR'YAN, M.A., retsenzent; POPOV, V.V., retsenzent; POPOV, S.N., retsenzent; SEREBRENNIKOV, V.V. reteenzent; SHAFRANOVSKIY, A.K., retsenzent; NOVITSKIY, G.I., inzh., retsenzent; VINTOROV, I.I., kand.tekim.mauk, retsenzent; VISOTSKIY, A.F., kand.tekim.nauk, retsenzent; SAATCHYAN, G.G., kand.tekim.nauk, retsenzent; YAKOVIEVA, Ye.A., kand.tekhn.nauk, retsenzent; TITOV, V.P., kand.tekhn.nauk, reteenzent; GRUSHEVOY, N.G., inzh., red.; BROMBERG, Ye.M., kand.tekhn.nauk, red.; KHITROV, P.A., tekhn. red.

[Railroad tracks] Zhelesnodoroshayi put'. Moskva, Vses.isdatel'skopoligr.ob"edinenie M-va putei soobshcheniia, 1961. 615 p. (MIRA 14:12)

1. Kafedra "Zheleznodoroshnyy put" Leningradskogo instituta inshenerov zheleznoderozhnego transporta (for Amelin, Konstantinov, Smirnov, Yakovlev). 2. Vsesoyusnyy nauchmo-issledovatel'skiy institut zhelesnodorozhnogo transporta (for Bochenkov, Bromberg, Yershkov, Zverev, Zolotarskiy, Ivashchenko, Linev, Markariyan, Popov, V.V., Popov, S.M., Serebremikov, Shafranovskiy, Novitskiy).3. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva(for Viktorov, Vysotskiy, Seatchyan, Yakovleva, Titov) (Railroad engineering) (Railroads—Track)

AMELIN, Stepan Vasil'yevich, zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn.nauk, prof.; DANOVSKIY, Leopol'd Mechislavovich, dotsent; KONSTANTINOV, Vasiliy Nikolayevich, dotsent; ANGELEYKO, V.I., prof., retsenzent; BASILOV, V.V., inzh., retsenzent; LIDERS, G.V., dots., red.; BOBROVA, Ye.N., tekhn. red.

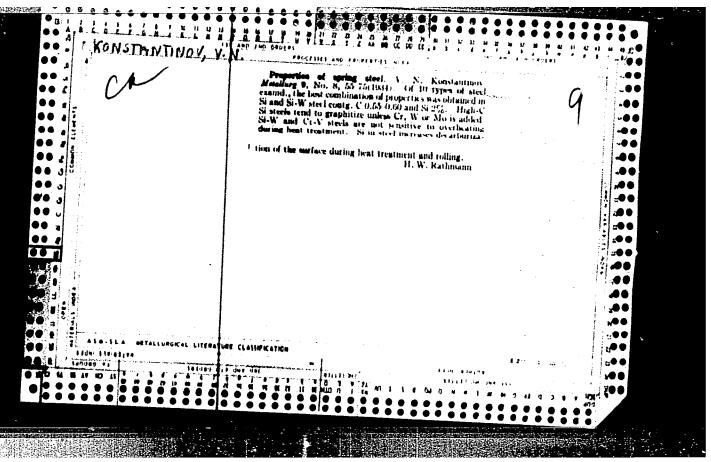
[Tracks and track design, operation and maintenance]Put i i putevoe khoziaistvo. Pod red.S.V.Amelina. Moskva, Transzhel-dorizdat, 1962. 185 p. (MIRA 15:9)

(Railroads-Track)

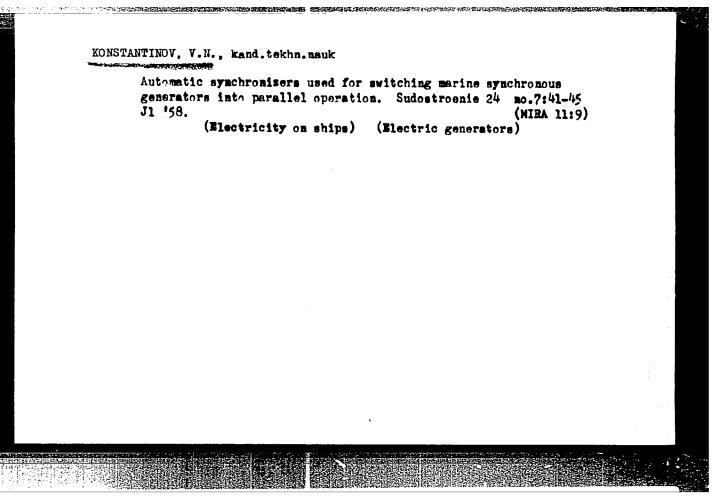
KONSTANTINOV, V.E., in z..

Refect of the design of worms on the efficiency of multiworm preus. Khim. i neft. mashinostr. no.2:21-26 Ag 164.

(MIRA 18:1)



					, ÷	+ 2	, ,	* #			-	. 4	1.5	3.4	2 6	4	2 :	: :				٠ ٠	1 5	* (8 8	6		٠.
Í	,		0 3	• •	• •	• •	• •		•) i () è (•	ě (ě	•	•			•	• •.		
	-3		1 1	1 1	1 1	9 10	11 17	13 14	15 14	17 1	19 1	p (1)	2 B	MB	M 77	# 1	10	מ וו	11 1	1 15 1	M U	M W	4 2 41	41 1	j u	a £ 🗣		
	••	4			M	-AB.	- 	_ 131	AP I	M	n na Marad 186	Y-4-2-	AI.	-A-M	. R . GS .	. 949 \$	8. j. e)L .	. d g		5, 47m	4	,* *	#t	LL	-400		
	••	. '	.Ko	N.51	A ET	LTI	NOI	$L \mathbf{V}$	IN			(8585	4 NO P		18.5 1965		•								•			
	••	. [4					,												***				1	•			
		• !								The	iaffi		of sill	con no	***		-:							- 1	- 1			
	. ••	•																								~		
	••	• •								N. J	onai	entin:	K .1.	letallue 2.829	g 11,	No.	9, 35	42.19	Kirls.							-0		
	• •									i be	146.AL	nce (() .(9)	2.829	o Si i	lt str	el jai	ms th	le eti	ι.						-00		
		. 5								1 mm	B, HK	rease:	s the (crit. qi	www.pp	ug si	red, i	nerea	ses ti	lé.								
		1																							1	-		
										west	18 (15)	H 241	ang in	but h	as lit	tle ii	Hhnr	1874 1981 1781 1981	est to	41					!			
	••	7! <u>3</u> .								nuch	. Deut	with.	٠,			H	. W . I	R' thn	unn	•						-00		
	. •							Ì																	13			
	•• 3	រុះស																							1	=00		
								ļ																	ř			
								i																		300		
		'						-																	- 3	500		
		'	:					- 1																	15	Z.		
	•• 2																									500		
	•• 1	1						- 1																	Ó	z••		
								- 1																	[-]	≂●●		
	10																											
		į																							- 1 ;	-00		
	STATE OF		:																							300		
	Sec.		}					- 1																	1	***		
	, L	. 🖔	:																						- [[~●●		
	عارين	1	<u>!</u> :																						11	10 0 E		
	00 i				ad T	AL L URGI	CAL LI		ME CL	ASSERT	TION			-#							T .:				- i i	200		
	00 8		1100	114:411						,							. ~									200		
			147742				103	383 1	7 (747	Cal.			10211	11 OHE:				13°			151					200		
	9	<u></u>	N AV	0 11		r .		1	•	1	- 5 - 5	•	- 0	7 7 7	I MI	T .	. 0			1 -	DI 2	4	7 7		TOT!	52.2		
	77-	•	• •			D 7 1	2		4 Z		9 4	15 (• •					ana.	. 4		
		ě	ěě			ěě	, .	į	ĕĕ	ii	ě	•				ĕ		•	• •					• •				
		_					_																					
PID:C	SACTOR	45 V.P		ATT WELL		e de la			CTREE SECTION			7.7		21.57	200			7	TO:		5.00	72.5		1000		Quet.	 3 : 3	
	30,000	1	真基基	3.44													强器											
40		44	近红鲜	4.66					100					建位的	CHAP		過級									老是这		



85761



S/137/60/000/009/011/029 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, p. 236, # 21408

AUTHORS:

Konstantinov, V.N., Timofeyev, Ye.I.

TITLE:

The Effect of High-Speed Deformation on the Mechanical Properties of a \upbeta -95 (V-95) Type Alloy After Aging to Various Degrees

PERIODICAL:

V sb.: Nekotoryye probl. prochnosti tverdogo tela, Moscow-Lenin-

grad, AN SSSR, 1959, pp. 230-237

TEXT: The authors investigated the effect of the <u>deformation rate</u> on the mechanical properties of a V-95 type <u>aluminum alloy</u> during static and dynamic tension. It is established that at higher deformation rates of an annealed alloy higher strength and ductility characteristics are observed; strength characteristics are reduced and ductility increased during high-speed deformation of a hardened alloy. Extended time and elevated temperature of aging reduce the effect of the deformation rate; this is due to the effect of the aging process,

Card 1/2

85761

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824410015-6

S/137/60/000/009/011/029 A006/A001

The Effect of High-Speed Deformation on the Mechanical Properties of a 6-95 (V-95) Type Alloy After Aging to Various Degrees

intensified in the deformed alloy at a higher degree of deformation and metastability. There are 8 references.

K.M.

Translator's note: This is the full translation of the original Russian abstract.



Multiscrew presses for processing plastic materials. Khim. mash.
no. 1:3-8 Ja-F '61. (MIRA 14:1)

(Power presses) (Plastics)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410015-6

S/081/61/000/022/070/076 B144/B138

AUTHORS:

Golubev, B. N., Zaretskiy, B. F., Konstantinov, V. N.

TITLE:

Automatization of screw extruders for plastics

PERIODICAL:

Referativnyy shurnal. Khimiya, no. 22, 1961, 454, abstract 22P95 (Mekhaniz. i avtomatiz. proiz-va, no. 3, 1961, 20-24)

TEXT: For automatic temperature control and regulation in the extrusion process, both positional (for larger temperature intervals) and speed-proportional floating control systems are used. But owing to the high inertia of the units hitherto used (e.g., resistance thermometer as pickup, autotransformer as regulating element, control has not proved effective enough. The use of electronic relays and miniature thermocouples gives much better results. At present, electronic machines of the APC-200 (MARS-200) scan-checking type are still more effective. Each of these machines is able to control 20-40 extruder units. [Abstracter's note: Complete translation.]

Card 1/1

RONSTANTINOV, V.N.; LEVIN, A.N.

Performance of multiple-screw extruders with meshing worms.
Plast.massy no.5:47-52 '62. (MIRA 15:4)

(Extrusion (Plastics))

KONSTANTINOV, V.N., inzh.

Geometric compatibility of screws. Khim. mashinostr. no. 6:
12-13 N-D '62. (MIRA 17:9)

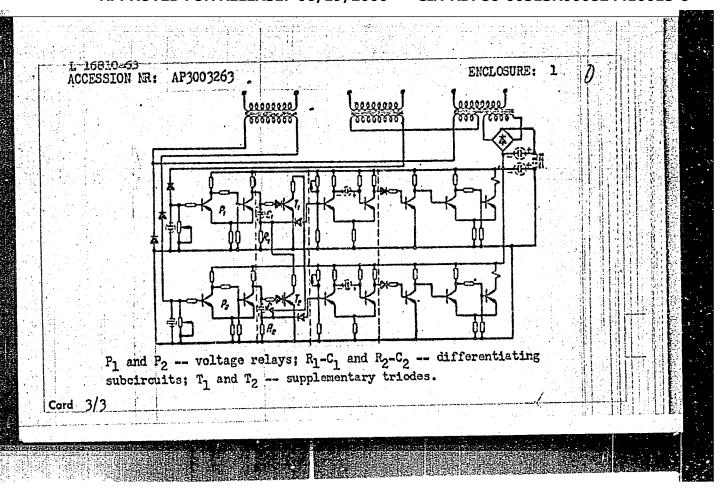
KONSTANTINOV, V. N., kand. tekhn. nauk

Automatic control of marine electric power plants. Sudostroenie
28 no.10:26-30 0 '62. (MIRA 16:1)

(Electricity on ships)
(Automatic control)

L: 16810-53 ACCESSION NR: AP3003263	s/0286/63/000/003/0031/0031
AUTHOR: Frolov, M. D.; Kons	MANUAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERT
42 sub 05. No. 152910	r velocities of rotation. Class H 02j; 2ld sup 2.
	tovarnykh znakov, no. 3, 1963, 31
TOPIC TAGS: equalizer, angu	lar velocity, semiconductor, relay, voltage relay
applied to two voltage relay which are shifted relative to determines the sequence of in order to eliminate the ne equalizer, a voltage relays	rular velocities of rotation, in which there is so, rectified envelopes of the beat voltages, to each other by an angle, the sign of which relay operation; its distinguishing feature is that sed for rectifying the voltages applied to the based on semiconductors and employed in the latter, tween the voltage relays set up with the aid of a and a supplementary triode. Abstracter's note: 5. art. has: 1 figure.
2/2	
Cord 1/3	

ASSOCIATION: none SUBMITTED: 15May61 DATE ACQ: 23Jul63 ENCL: 01 SUB CODE: GE NO REF SOV: 000 OTHER: 000	1, 16810-53 ACCESSION NR: AP3003263			0
SUB CODE: GE NO REF SOV: OOO OTHER: COO	ASSOCIATION: none			
SUB CUDE: 43	SUBMITTED: 15May61	DATE ACQ: 23Jul63	ENCL: 01	
	SUB CODE: GE	NO REF SOV: 000	OTHER: 000	
Card 2/3				
	Card 2/3	Annual de Caracteria de Caract		



KONSTANTINOV, V.N., kand.tekhn.nauk; MAKSIMOV, M.K., inzh.

System of remote automatic control of marine diesel generators.

Sudostroenie 29 no.1:39-43 Ja '63.

(Marine diesel engines)

(Remote control)

KONSTANTINOV, V.N., kand.tekhn.nauk

Principles of the theory of automatic control. Sudostroenia 29 no.10:77 0 '63. (MIRA 16:12)

KONSTANTINOV, V.N., kand.tekhn.nauk; VARLINSKIY, B.D., inzh.

System of remote control for the electric power plant on the lumber carrier "Vytergrales." Sudostroenie 30 no.1:28-30 Ja '64.

(MIRA 17:3)

KONSTANTIOV, V.N., kand. tekhn. nauk

Automating marine electric power systems. Sudostroenie 30 no.9:
45-47 S '64.

(N!RA 17:11)

KONSTANTINOV, Vasiliy Nikolayevich: VILESOV, D.V., doktor tekhn. nauk prof., retsenzent; KUZNETSOV, N.A., Laureat Gos. premii, retsenzent; SUPRUN, G.F., doktor tekhn.nauk nauchn. red.; CHFAS, M.A., red.

[Synchronization of marine synchronous generators] Sinkhronizatsiia sudovykh sinkhronnykh generatorov. Leningrad, Sudostroerie, 1965. 289 p. (MIRA 19:1)

BARTENEV, Prokofiy Vasil'yevich, prof. [deceased]; KONSTANTINOV,
Vasiliy Nikolay ich, dots.; SKALOV, K.Yu., kand. tekhn.
nauk, red.; LCMIDZE, G.I., red.

[Arrangement of trackage and stations] Ustroistvo puti i stantsii. Moskva, Transpert, 1965. 351 p. (MIRA 18:8)

KONSTANTINOV, V.N., inzh.; OZOL, Yu.R., inzh.; VAYNSHTEYN, Ye.S., inzh.; KLOCHKOV, V.I., inzh.

Units for the production of plane films. Khim. i neft. mashinostr. no.1:5-9 Ja *65. (MIRA 18:3)

L 22925-66 ACC NR: AP6007681 SOURCE CODE: UR/0413/66/000/003/0059/0059 (A) AUTHOR: Konstantinov, V. N.; Semenov, V. G.; Voykhanskiy, P. G.; Fedoreyev, V. I. ORG: none TITIE: Unit for longitudinal orientation of a polymer film. Class 39, No. 178483 [Announced by the Scientific Research Institute for the Construction of Chemical Machinery (Nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 59 TOPIC TAGS: film processing, photographic equipment ABSTRACT: An Author Certificate has been issued describing a unit for the longitudinal orientation of polymer films. The machine is equipped with one set of retarding rolls and another set of pulling rolls. To reduce the transverse shrinkage of the film and control its deformation rate, an orientation roll, which can be heated up, is installed between both the pulling and retarding rolls and equipped with a mechanism for moving the film in the vertical plane. SUB CODE: 14/ SUBN DATE: 07Jan65/ film processing Card 1/1 678.017.4

KONSTANTINOV, V.P.

PHASE I BOOK EXPLOITATION SOV/3671

Akademiya nauk SSSR. Institut elektronnykh upravlyayushchikh mashin

- Tsifrovaya tekhnika i vychislitel'nyye ustroystva; [Sbornik] (Digital Technique and Computing Devices; Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 184 p. Errata slip inserted. 4.000 copies printed.
- Ed.: N.S. Bruk, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: G.Yu. Shteynbok; Tech. Ed.: V.V. Volkhova.
- PURPOSE: This collection of articles is intended for persons specializing in computer technique.

COVERAGE: Most of the work in this first issue of the Collection of Articles of the Institute of Electronic Control Machines of the Academy of Sciences, USSR, was carried out during 1958-1959, and was dedicated to digital technique. The Institute conducted studies aimed at creating a high-speed memory device of large capacity. One of the results of this work was improvement of the

Card 1/11

Digital Technique (Cont.)

sov/3671

M-2 computer by replacing its static storage device with ferrite memory cores. Other articles concern the use of transistors in digital computers, stability of analog computers equipped with d-c operational amplifiers, and the use of the M-2 computer in solving various problems. Future issues of this collection of articles will present the results of work in digital technique in mathematical investigations, and in control machines and systems of control which operate on the principle of digital technique. Some personalities are mentioned in the articles. References accompany some of the articles.

TABLE OF CONTENTS:

From the Editor

3

Glukhov, Yu.N., V.I. Zolotarevskiy, M.A. Kartsev, V.P. Konstantinov, and R.P. Shidlovskiy. Ferrite Memory Device With 4096 Digits

The authors present a general description of the ferrite core memory device. It has a 4096 word capacity, each word consisting of 36 binary bits, two of which are reserve. The access time is

Card 2/11

Digital Technique (Cont.)

SOV/3671

about 30 microsec; part of this cycle overlaps other computer operations. This memory unit is equipped with 526 electron tubes and 103 additional tubes are used in the power supply. These specifications constitute a great improvement over the previous memory device, in which the operational electrostatic storage and the reserve magnetic drum storage had a capacity of 512 binary, 34-bit words each, and in which access time was from 37.5 to 50 or more microsec. It was equipped with 644 electron tubes and 150 additional tubes were used in the power supply. The new ferrite core memory device was developed, executed, and adjusted at the Institute under the general direction of I.S. Bruk, Corresponding Member of the Academy of Sciences, USSR. Preliminary studies were made in 1955-1956 under the direction of 0.V. Rosnitskiy. The essential part of the work was done under the supervision of M.A. Kartsev by engineers T.M. Aleksandridi, V.B. Borok, Yu.N. Glukhov, V.I. Zolotarevskiy, L.V. Ivanov, V.P. Konstantinov, Ye.N. Filinov, and R.P. Shidlovskiy; and technicians I.I. Gallyamova, N.S. Zhdanov, V.M. Minayev, M.Ya. Natanzon, Z.N. Sidyakova and V.S. Sokolov. The construction group was under the supervision of A.N. Patrikeyev, and the

Card 3/11

SUKHOV, Dmitriy Konstantinovich; NECHAYEV, V.V., retsenzent; KONSTANTINOV,
V.P., retsenzent; YEVIANOV, S.H., redaktor; KAN, P.M., redaktor

[Blectric engineering and telecommunication] Elektrotekhnika 1
elektrosvias'. Isd. 2-oe, dop. 1 ispr. Moskva, Izd-vo "Rechnot
transport," 1956, 466 p.

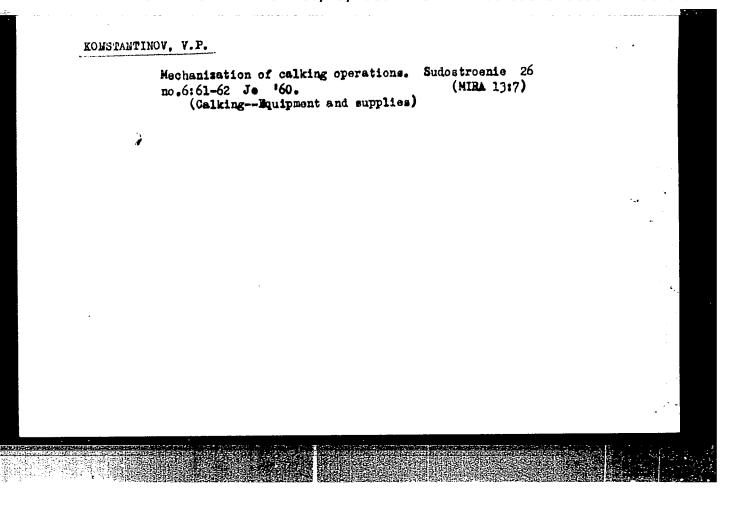
(Electric engineering) (Telecommunication)

(Electric engineering) (Telecommunication)

Wonstantinov, V.P.

Hew head for semiautomatic welding machine. Mashinostroitel'
no.6:18 Je '60. (MIRA 13:8)

(Electric welding)



Gluing parts on a hydraulic press with heating by high frequency currents. Sudostroenie no.7:60-61 J1 '60. (MIRA 13:7)

(Gluing) (Induction heating)

i

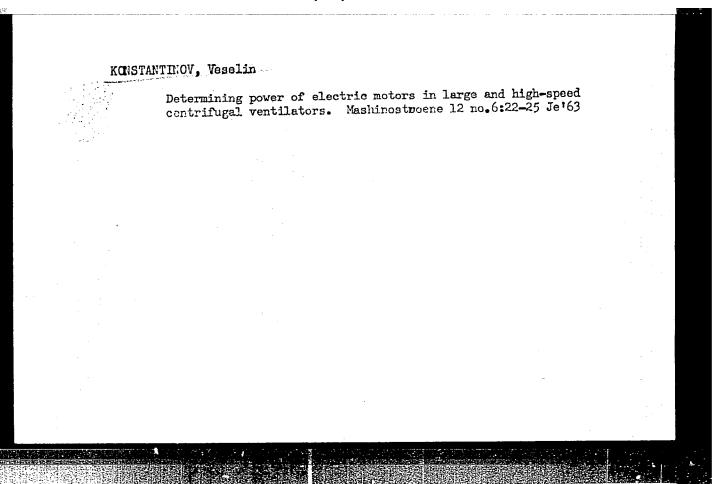
KONSTANTINOV, V.P.; VESELOV, Yu.V.; YEGOROVA, L.S.

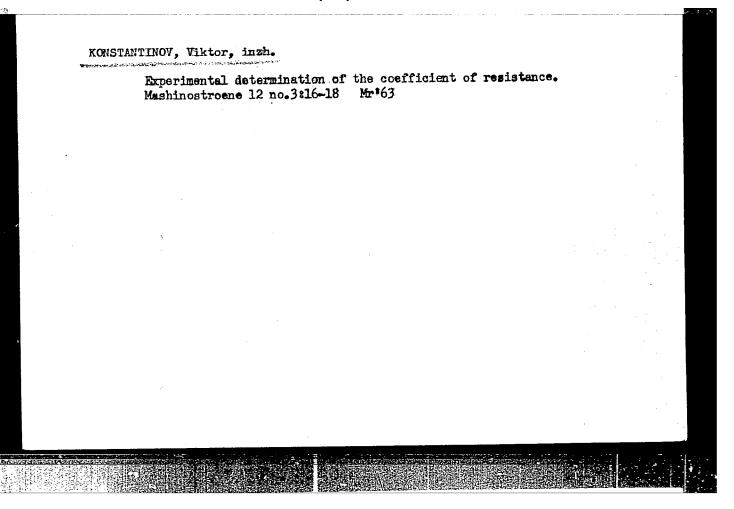
Clinical and epidemiological characteristics of Omsk hemorrhagic fever. Sov.med. 25 no.1:70-71 Ja '61. (MIRA 14:3)

1. Iz Omskogo gosudarstvennogo meditsinskogo instituta. (EPIDEMIC HEMORRHAGIC FEVER)

SOLOMATIN, V.M.; YAURE, A.G., ingh., retsenzent; KONSTANTINOV, V.P., retsenzent; PETUKHOV, M.N., retsenzent; KRUGLIK, G.L., retsenzent; TUPITSA, I.S., retsenzent; FRIK, A.O., inzh., nauchn. red.

[Manual for ship engineers and electricians] Spravochnik elektromekhanika i elektrika sudna. Moskva, Izd-vo "Rechnoy transport," 1963. 713 p. (MIRA 17:2)





IONOV, B.I.; PHTROV, N.I., redaktor; KONSTANTINOV, V.P., redaktor; KRAS-HAYA, A.K., tekhnicheskiy redaktor

[Practical guide for ship radio operators] Prakticheskoe rudovodstvo sudovomu radistu. Izd. 2-e, perer. i dop. Moskva, Isd-vo Ministerstva rechnogo flota SSSR, 1952. 219 p. [Microfilm] (MIRA 8:7) (Radio in navigation)

Developing electric and radio navigation techniques in inland
water transportation during the sixth five-year plan. Each transp.
15 no.8:12-16 Ag '56. (MERA 9:11)

(Inland water transportation) (Radar in nevigation)

(Sounding and soundings)

MEN'SHIKOV, Nikolay Aleksandrovich; CHERNYSHEV, I.K., retsenzent;

MAN'KOVICH, B.Ya., retsenzent; KONSTANTINOV, V.P., red.; KAN P.M.,

red.izdatel'stva; TSVETKOVA, S.V., tekhn.red.

[Organization of ships' radio communication systems] Organizatsiia sudovoi radiosviazi. Moskva, Izd-vo "Rechnoi transport," 1957. 88 p. (MIRA 10:12)

(Radio -- Installations on ships)

107-57-2-31/56

AUTHOR: Konstantinov, V., Chief Specialist, Administration of Communications, Ministry of the River Fleet, USSR

TITLE: Radio Communication in the River Fleet (Radiosvyaz' na rechnom flote) PERIODICAL: Radio, 1957, Nr 2, pp 26-27 (USSR)

ABSTRACT: Radio communication adopted on Soviet river ships has acquired great importance over the last few years. It helps in management of the shipping, and also in securing safety. Radio stations of 30 to 80 w have two bands, 25 to 120 m and 500 to 1,200 m. Radio stations "Urozhay" are widely used in roadstead communications. Operational communication in the river fleet is of the CW type and has definite intervals between the communication sessions. Each river basin is subdivided into several dispatchers' sections, from 400 to 800 km apart. As the ship goes along the river, it contacts a number of section stations in succession. In many basins the ships also establish communication with the radio center's of the shipping management. Sometimes communication is effected by means of announcements that are made three or four times a day. The announcements include the call sign of the ship for which mail is waiting and also set the schedule of communications. Twice a day a radio center of the shipping

Card 1/2

KONSTANTINOV, V.P., inzh.

Adopting reder methods for ship handling. Rech. transp. 17 no.5:

(NIBA 11:5)

(Badar in navigation)

RUL'KOV, Dmitriy Ivanovich; SARATOV, Vladimir Fadeyevich; SHUMEYKO, G.K., retsenzent; KONSTANTINOV, V.P., retsenzent; KUSHCH, L.K., red.; LOBANOV, Ye.M., red.izd-va; BOBROVA, V.A., tekhn.red.

[Nautical equipment of ships for inland navigation] Mavigateionnoe oborudovanie sudov vnutrennego plavaniia. Moskva, Isd-vo "Rechnoi transport," 1959. 127 p. (MIRA 13:1) (Inland navigation) (Nautical instruments)

Vol., retsensent; ENVORTSOV, D.R., retsensent; BOGDANOV,
V.I., retsensent; medeased]; KAN, P.M., red.izd-va; BOBROVA,
V.A., tekhn.red.

[Ship radio operator's manual] Posobie sudovomu radiatu.
Moskva, Izd-vo "Rachnoi transport." 1959. 332 p. (MIRA 12:9)
(Radio in navigation)

VIASOV, Viktor Grigor'yevich, dotsent, kand.tekhn.nauk; SVECHNIKOV, Vladimir Grigor'yevich, kand.tekhn.nauk; HIKITENKO, Yu.I., dotsent, kand.tekhn.nauk, retsenzent; ZHKHLAKOV, A.V., dotsent, kand.tekhn.nauk, retsenzent; KONSTANTINOV, V.P., inzh., retsenzent, red.; VITASHKINA, S.A., red.izd-va; BODROVA, V.A., tekhn.red.; POKHLHBKINA, M.I., tekhn.red.

[Fundamentals of radio engineering and electronic navigation devices] Osnovy radiotekhniki i elektroradionavigatsionnye pribory. Moskva, Izd-vo "Rachnoi transport," 1960. 279 p. (MIRA 14:3)

(Radio in navigation) (Radio)

KONSTANTINON, VP

PHASE I BOOK EXPLOITATION

SOV/5712

- Makiyenko, Semen Ivanovich, Nikolay Aleksandrovich Men'shikov, and Vadim Pavlovich Konstantinov
- Organizatsiya radiosvyazi, radioveshchaniya i radionavigatsii na rechnom transporte (Organizing Radio Communications, Radio Broadcasting, and Radio Navigation in River Transportation) Moscow, Izd-vo "Rechnoy transport", 1960. 130 p. 2,800 copies printed.
- Ed.: D. K. Sukhov; Reviewer: I. I. Pospelov; Ed. of Publishing House: P. M. Kan; Tech. Ed.: V. A. Bodrova.
- PURPOSE: This book is intended for radio-communication personnel and for ship handlers and other personnel concerned with the operation of fleets, harbors, and maintenance bases.
- COVERAGE: The book presents the principles of the organization of radio communications, radio broadcasting, and radio navigation in river transportation. Primary attention is paid to radio communication operations aboard ships, in particular during navigation

Card 1/5

KÖNSTANTINOV, V., inzh.; TSYPIN, Ya., inzh.; MIROSHNICHENKO, I., inzh.

Introducing autematic control in inland navigation and prospects for its development. Rech. transp. 20 no. 2:12-14 F '61.

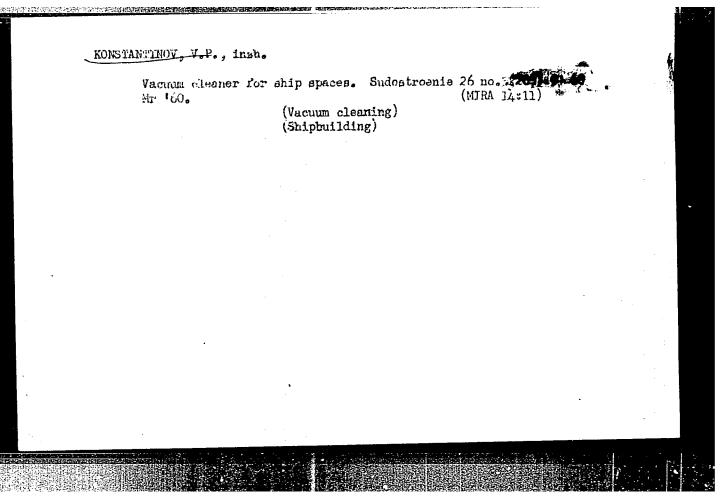
(MIRA 14:12)

(Inland navigation) (Automatic control)

STUKUSHIN, V.I., otv. za vypusk; KONSTANTINOV, V.P., red.; KAN, P.M., red. izd-va; BEGICHEVA M.N., tekhn. red.

[Regulations governing radio equipment on ships navigating the inland waters of the U.S.S.R.; rivers lakes, and canals] Pravila po radiooborudovaniiu sudov vmutrennego plavaniia SSSR; reki, ozera, kanaly. Utverzhdeny prikazom MPF no.77 22 marta 1956 g. Moskva, Izd-vo "Rechnoi transport," 1956. 56 p. (MIRA 15:3)

1. Russia (1923- U.S.S.R.) Rechnor Registr. (Radio in navigation) (Radio-Installation on ships)



KONSTANTINOV, Vadim Pavlovich; NITS, Yu.K., retsenzent;

MIROSHNICHENKO, I.F., red.; KAN, P.M., red. izd-va;

REMNEVA, T.T., tekhm. red.

[Ship radio operator's handbook]Posobie sudovomu radistu.

2., dop. i perer. izd. Moskva, Izd-vo "Rechnoi transport,"

(MIRA 15:12)

1962. 262 Pe

(Radio in navigation—Handbooks, mamuals, etc.)

HENUA, F.F.; DUKOR, Z.G.; KLYUSHENKOV, I.S.; KONSTANTINOV, V.P.;

KATLER, A.I.; MAYKOV, N.K.; PRAYSMÁN, A.D.; SERGETEV, V.I.;

KATLER, A.I.; MAYKOV, N.K.; FRAYSMÁN, A.D.; SERGETEV, V.I.;

TRUFANOV, V.G.; FEDOROV, V.F.; FRUMIN, S.R.; CHERTKOV, Kh.A.;

SHIBANOV, B.V.; VATASHKINA, S.A., red.izd-va; CHERNOV,M.I.,

red.; BODROVA, V.A., tekhn. red.

[Handbook on ship repairs in two volumes] Spravochnik po

remontu sudov v dvukh tomakh. Pod obshchei red. M.I.Chernova.

remontu sudov v dvukh tomakh. Pod obshchei red. M.I.Chernova.

remontu sudov v dvukh tomakh. Pod obshchei red. M.I.Chernova.

(Ships--Maintenance and repair)

(MIRA 16:9)

(Ships--Maintenance and repair)

BENUA, F.F.; DUKOR, Z.G.; KIYUSHENKOV, I.S.; KONSTANTINOV, V.P.;
KOTIYAR, D.I.; MAYKOV, N.K.; PRAYSMAN, A.D.; SERGEYEV,
V.I.; TRUFANOV, V.G.; FEDOROV, V.F.; FRUMIN, S.R.;
CHERTKOV, Kh.A.; SHIBANOV, B.V.; CHERNOV, M.I., red.;
VITASHKINA, S.A., red.izd-va; BODROVA, V.A., tekhn. red.

[Handbook on ship repairs in two volumes] Spravochnik po remontu sudov v dvukh tomakh. Pod obshchei red. M.I. Chernova. Moskva, Izd-vo "Rechnoi transport." Vol.1. 1963. 550 p. (MIRA 16:12)

(Ships-Maintenance and repair)
(Marine engineering-Handbooks, manuals, etc.)

PAKHOMOV, V.B., kand. tekhn. nauk; NAUMOV, A.I., inzh.; SHEIMANOV, V.S., inzh.; KONSTANTINOV, V.P., inzh.; KOSTIN, A.M., inzh.; SEMENOV, YU.K., inzh.; PYATLIN, A.A., kapitan; VAGANOV, G.I., kand. tekhn. nauk; SVIRIDOV, A.A., inzh. KHODUNOV, M.Ye., kand. yurid. nauk; SAPOGOVA, A.Ye., inzh.; SOYUZOV, A.A., doktor tekhn. nauk, prof., red.; VASIL'YEV, A.V., kand. tekhn. nauk; ALEKSEYEV, V.I., red.; KUSTOV, L.I., red.; VITSINSKIY, V.V., red.; BORISOV, I.G., red.; SOLAREV, N.F., red.; ANDRIYENKO, V.I., red.; SUTYRIN, M.A., red.; GOLOVNIKOV, V.I., red.; ZOTOVA, V.V., red.

[Manual for the navigator of a river fleet] Spravochnik sudovoditelia rechmogo flota. Izd.2., dop. Moskya, Transport, (MIRA 18:2)

l. Gor'kovskiy institut inzhenerov vodnogo transporta (for Pakhomov, Semenov, Vaganov, Vasil'yev). 2. Moskovskiy rechnoy tekhnikum (for Naumov). 3. Volzhskoye ob"yedinennoye rechnoye parokhodstvo (for Shelmanov, Sapogova). 4. Minister-stvo rechnogo flota (for Konstantinov, Sviridov). 5. Kazanskiy port (for Kostin). 6. Moskovskoye rechnoye parokhodstvo (for Pyatlin).

。 一种,他们就是一种,他们就是一种,他们们就是一种,他们们们就是一种,他们们们们就是一种,他们们们

ACC NRI	AP6031288	(N)	SOURCE C	ODE: UR	/0399/66/0	000/009/0107	/0111
AUTHOR:	Konstantinov,	V. P.; Dontso	ov, G. I.				
ORG: De Medical	epartment of In Institute im. Inskogo institut	fectious Disea 1. I. Kalinin	ess/Director	docent t	V. P. Kons kh bolezne	tantinov/, (y Omskogo	Dmsk
TITLE:	Clinical pictur	e and treatme	ent of tetanus	•		The state of the s	••
	Sovetskaya med			.1		•	
ABSTRACT	5—11 days. paralysis. and revacci	idemiological ms were fairly ranged from Eight deaths Complex there mation was rec	studies of te y similar in a 3-30 days wit s were caused apy was effect: commended.	tanus in 11 patie h an ave by asphy ive for	omsk revents; the rage between	ealed incuba- een rdiac	Semial-
SUB CODE	: 06/ SUBM DA	TE: none/ OR	NIG REF: 030/	•	*		
. :		•			•	"·	.
Cord 1/1	_		UDC: 616.	981.551	.313.13(57	1.13)	
	SSE SAME TO SECURE						

KOROLEV, V.G.; KONSTANTINOV, V.V., redaktor, KOGAN, F.L. tekhnicheskiy redaktor

[Manual for an automobile dispatcher] Posobie dispetcheru avto-khoziaistva. Moskva, Nauchno-tekhn. izd-vo avtotransportnoi lit-khoziaistva. Moskva, Nauchno-tekhn. izd-vo avtotransportnoi lit-y, 1954. 102 p.

(NIRA 8:6)

(Radio--Transmitters and transmission)

