

FORTUSHNYI, V. A., NOVIKOV, V. M. (Candidates of Veterinary Sciences) and SHULYAK (Junior Scientific Co-Worker, Ukrainian Scientific Research Institute of Experimental Veterinary Medicine)

"To study and disseminate leading experience of animal breeders and veterinary specialists in the Ukrainian  ${\tt SSR}"$ 

Veterinarya, vol. 39, no. 7, July 1962, pp. 24

NOVIKOV, V.M., kand. veter. nauk; FORTUSHNYY, V.A., kand. veter. nauk; SHUMAK, V.D., mladshiy nauchnyy sotrudnik

Treatment of piglets infected with paratyphoid fever.
Veterinariia 39 no.11:42-44 N '62. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

FORTUSHNYY, V.A., kand. veter. nauk; NOVIKOV, V.M., kand. veter. nauk

Elimination of undesirable microflora in the fermentation of native antibiotics. Veterinariia no.12:52-54 D '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel skiy institut eksperimental noy veterinarii.

# NOVIKOV, V.M. [Novykov, V.M.]

Effect of antibiotics on Bacillus anthracis in vitro. Mikrobiol. zhur. 25 no.5:67-70 \*63 (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel skiy institut eksperimental noy veterinarii, Khar kov.

NOVIKOV, V.M.; FORTUSHNYY, V.A.; SHULYAK, V.D.

Method of determining vitemin B<sub>12</sub> using Escherichia coli. Mikrobiologiia 32 no.2:319-322 Mr-Ap '63. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii, Khar'kov.

FORTUSHNYY, Vladimir Anisimovich; NOVIKOV, Vladimir Mitrofanovich; KALUGIN, Leonid Konstantinovich; CRECHKO, G.S.[Hrechko, H.S.], red.

[Prophylaxis of diseases in young farm animals; aid to veter-inary specialists and stockbreeders] Profilaktyka khvorob molodniaka sil's'kohospodars'kykh tvaryn; na dopomohu veterynarnym spetsialistam i pratsivnykam tvarynnytstva. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1964. 74 p. (MIRA 18:2)

FORTUSHNYY, V.A.; NOVIKOV, V.M., kand. veterin. nauk; SHULYAK, V.D., mladshiy nauchnyy sotrudnik

Study and propagate the advanced practices of Livestock farmers and veterinary specialists in the Ukraine. Veterinaria 39 no.7:24-29
J1 162. (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel\*skiy institut eksperimental\*ney veterinarii.

NOVIKOV J.M. kand. veter. nauk; FORTUSHNY, V.A., kand. veter. nauk;
SHULYAK, V.D., mladshiy nauchnyy sotudnik; GFNSEROVSKAYA, V.K.,
veterinarnyy vrach

Accelerated indicator method for determining vitamin B<sub>12</sub>.
Veterinaria 42 no.5/106-108 My '65. (MinA 18:6)

1. Ukrainskiy nauchnc-issledovatel'skiy institut eksperimental'noy veterinarii.

NOVIKOV, V.M., kand. veter. nauk; FORTUSHNYY, V.A., kand. veter. nauk; GENSEROVSKAYA, V.K., veterinarny; vrach

Sensitivity of the pathogen of swine erysipelas to antibiotics. Veterinariia 41 no.7:26-27 Jl 164.

(MIRA 18:11)

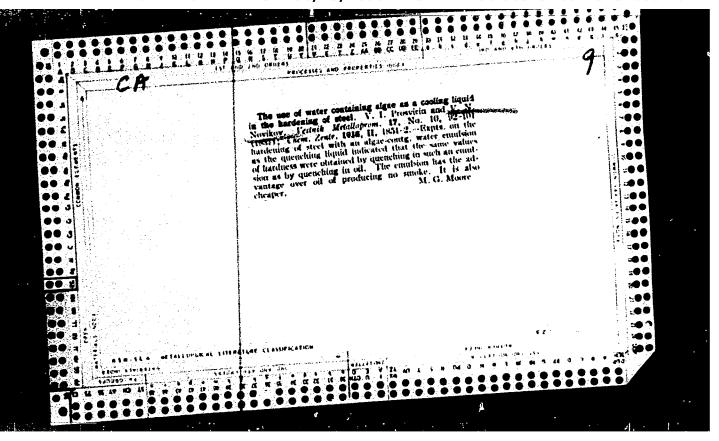
1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.

NOVIKOV, V.M., kand.veter.nauk

Methods for isolating a pure culture of the pathogen of swine erysipelas. Veterinariia 42 no.10:101-102 0 165.

(MIRA 18:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii.



### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001237510004-8

ACC NR: AP6021717

(A)

SOURCE CODE: UR/0237/66/000/003/0938/0045

AUTHOR: Novikov, V. M.

ORG: None

TITLE: Optical properties of thin films of materials in the vacuum ultraviolet spectrum range. A review.

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 3, 1966, 38-45

TOPIC TAGS: ultraviolet optic property, film light reflection coefficient, film light transmission coefficient, film ultraviolet reflectivity, film ultraviolet transparency, film ultraviolet property review, us spectrum, us optic material

ABSTRACT: The author reviews the literature on the optical properties of thin films of materials in the vacuum ultraviolet range of the spectrum. An important stimulus to the development of this domain was given by the short wave optical research in the cosmic space, made possible by the aid of rockets and sattelites. Requirements for simple, reliable and compact installations generated a need for better materials. 54 papers are reviewed, in three chapters, treating: 1) general aspects of optical materials, pointing out, e.g., the influence of age, exposure and surface perfection on the properties of films 2) materials for reflective coatings, 3) materials for transparent layers, noting, e.g., the work of R.W. Wood on the transperency to the UV of thin layers of Na and K, dating back to 1902 and 1917, and remaining unexplained till

Card 1/2

UDC: 539.23:535-3

## ACC NR: AP6021717

the early thirties, 4) papers on the relationship between optical and photoelectric properties of thin films and the use of thin films for absorption and interference filters. The optical techniques of thin coatings are now basic for the research in the vacuum ultraviolet range of the spectrum. Author thanks doctor of physico-mathematical sciences G.A.Gurzadyan for his interest and valuable directives, and L.B. Khokhlova for aid in selecting material for this paper. Orig.art. has 11 figures.

SUB CODE: 20/ SUBM DATE: O2Mar65/ ORIG REF: 005/ OTH REF: 049

Card 2/2

L 37640-66

ACC NR: AP6011245

SOURCE CODE: UR/0413/66/000/006/0088/0088

INVENTOR: Gurzadyan, G. A.; Novikov, V. M.

16

ORG: none

TITLE: Preparation of a light filter. Class 42, No. 179961

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 88

TOPIC TAGS: light filter, ultraviolet spectrum

ABSTRACT: An Author Certificate has been issued for describing a method of preparing a light filter for the far-ultraviolet region of the spectrum by vacuum deposition of an alkaline metal on a plate-like transparent base. The deposited layer is covered with a second protective plate. To prevent oxidation of the alkaline metal deposit, the second plate is applied in vacuo; circular seals are inserted between both plates; the plates are compressed, and the space between them is made completely airtight.

SUB CODE: 20/ SUBM DATE: 30May 64

Card 1/1 vab

UDC: 535.345.6

NOVIKOV, V.N.

USSR/Virology - Bacterial Viruses

E-l

Abs Jour

: Referat Zhurn - Biol. No 16, 25 Aug 1957, 68228

Author

: Novikov, V.N.

Title

: Comparative Characteristics of Different Methods of

Typing Bacteriophages of Typhoid Fever.

Orig Pub

Zh. Mikrobiol., Epidemiol. i Immunnobiologiy, 1956 (1957),

Edition, 37-38

Abstract

Phages, excreted from the patients' organism and from sewer and river waters, were typed by the serologic method and by the ability to lyse experimentally obtained phagoresistant cultures of secondary growth. It developed that the latter method is less exact than the serologic one; besides this, it was not always possible to isolate phagoresistant cultures. Mainly phages of Vi-type were secreted from sick individuals, while from external

media we obtained complex Vi- and O-phages.

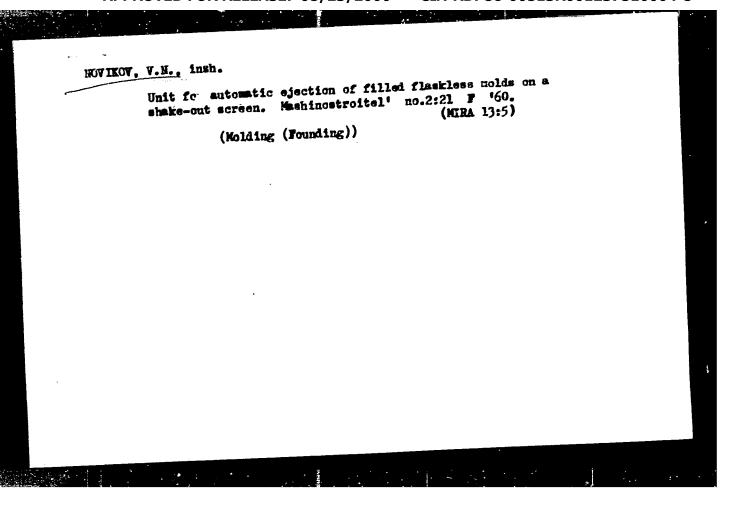
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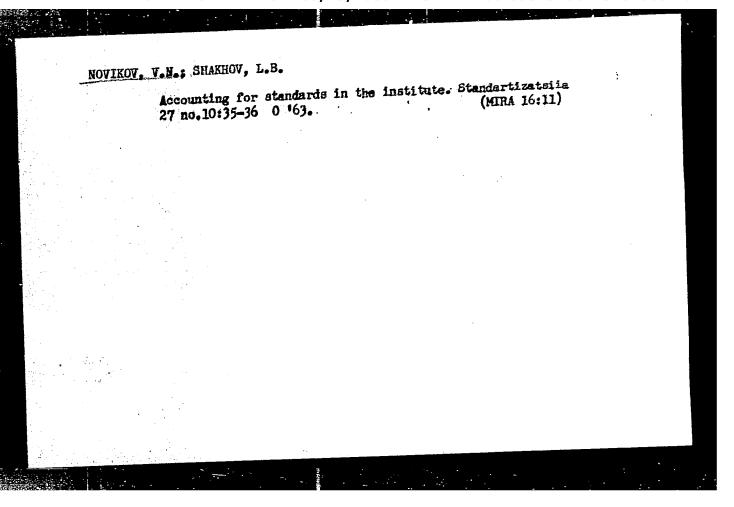
- 7 -

Investigation of the electrical conductivity and dielectric permeability of semiconducting materials in the system of the oxides of manganese and cobalt. V. N. Novikov.

Physico-chemical investigation and electrical conductivity of cobalto-titanium oxide semiconductors. T. N. Yegorova, Ye. V. Kurlina, I. T. Sheftel.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

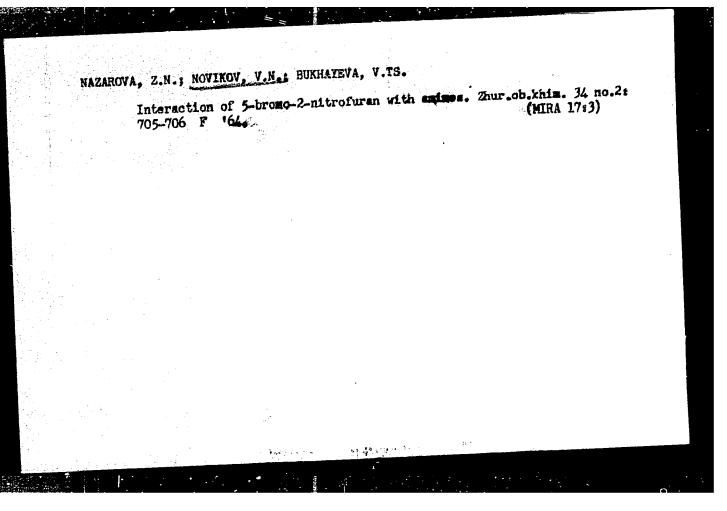




MAZAROVA, Z.M.; NOVIKOV, V.N.

Chemistry of 5-halofurans. Part 15: Reaction of the substitution of the halogen in 5-halo-2-nitrofurans. Shur. ob. khim. 31 no.1: 263-267 Ja 161. (MIRA 14:1)

1. Rostovskiy-na-Domu gosudarstvennyy universitet.
(Furan)



DYNKOV V.F., kandidat tekhnicheskikh nauk; HOVIKOV, V.H., inshener;
BURNIN, V.A., inshener; BNILOV, H.B., kandidat tekhnicheskikh
nauk; nauchnyy redaktor; BNILOV, H.B., kandidat tekhnicheskikh
nauk; nauchnyy redaktor; BNILOV, V.S., tekhnicheskiy redaktor

[Hardening concrete by the use of additives of calcium chloride
under cold weather conditions] Twordenic betoma a doberkami
khloristogo kal'taita pri otritastel'noi temperature. Moskwa,
khloristogo kal'taita pri otritastel'noi temperature. Moskwa,
Gos. ind-vo lit-ry po stroit. i arkhitekture, 1955. 39 p. [Microfile]

(MEZA 10;2)

1. Moscow. Vsesoyusnyy nauchno-issledovatel'skiyinstitut organisatsii
i mekhanisatsii stroitel'stwa.

(Goncrete) (Line, Chloride of)

TROSTIN, Ye.A., inzh.; KALININ, S.A., inzh.; KORENEVSKIY, M.V., inzh.; NOVIKOV, V.N., inzh.; DROBINSKIY, V.A., inzh., red. YUDZON, D.M., tekhn. red.

[Illustrated handbook for the locomotive engineer] Illiustrirovannoe posobie parovoznomu mashinistu. Moskva, Transzheldorizdat, 1963. 280 p. (MIRA 16:7)

(Locomotives—Handbooks, manuals, etc.)

# KOAIKOA' A'N'

How we have increased the life of motor-armature bearings of ChS1 and ChS3 electric lecomotive. Elek. i tepl. tiags 7 ne.3:12-13 Mr 163.

1. Glavnyy insh. lekemetivnoge depe Meskva-Tekhnicheskaya.
(Electric locemotives)
(Bearings(Machinery))

RAKOV, Vitaliy Aleksandrovich; KALININ, S.S., inzh., retsenzent; SUSLOV, B.V., inzh., retsenzent; HAKHODKIN, M.D., kand. tekhn. nauk, retsenzent; FAMINSKIY, G.V., kand.tekhn. nauk, retsenzent; ROGOVA, Ye.N., inzh., retsenzent; KRYLOV, V.I., inzh., retsenzent; NOVIKOV, V.N., inzh., retsenzent; GORELIK, I.A., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Series ChS2 electric locomotive for passenger trains]
Passazhirskii elektrovoz serii ChS2. Moskva, Transzheldorizdat, 1963. 359 p. (MIRA 17:1)

ENT(m)/ENP(j) 31529-66 ACC NRI SOURCE CODE: UR/0366/65/001/011/2022/2028 AP6008866 AUTHOR: Novikov, V. N. Nazarova, Z. N. **ORG:** None TITLE: Sulfides, ethers, and amines of the nitrofuran series SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 11, 1965, 2022-2028 TOPIC TAGS: sulfide, ether, amine, organic nitro compound ABSTRACT: The exchange of bromine in 5-bromo-2-nitrofuran (II) for oxygen-, sulfur-, and nitrogen-containing groups was investigated. When (II) was reacted with 5-mercaptofurfural, 5-mercapto-2-acetofuran, 2-mercaptobenzimidazole, and thiosalicylic acid in alkaline media, the corresponding ethers were obtained. When it was reacted with secondary amines, the corresponding tertiary amines of the nitrofuran series were produced, and their UV and IR spectra were recorded. 2-Nitro-5-furyl-2'-benzimidazolyl sulfide was isolated in two crystalline modifications. The reaction of (II) with ethylamine and methylamine was followed spectrophotometrically and was found to proceed in almormal fashion: the colored intermediate which is first formed disappears in the course of the reaction. Attempts to isolate the products resulting from the reaction of (II) with primary amines led to tarring of these products. Orig. art. has: 3 figures and 2 tables. SUB CODE: 07 / SUBM DATE: 16Jul64 / ORKG REF: 009 / OTH REF: 608 UDC: 547.722.723+541.69

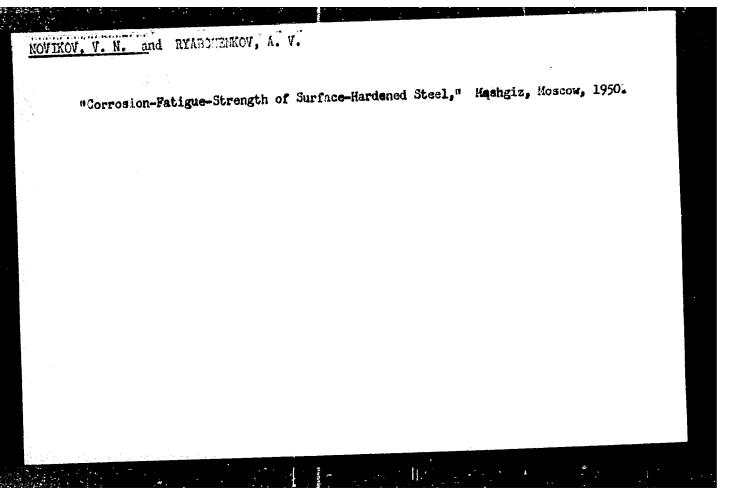
DORGE TENKO, G.N.; SHELEPIN, O.YE.; NAZAROVA, Z.N.; NOVIKOV, V.N.;

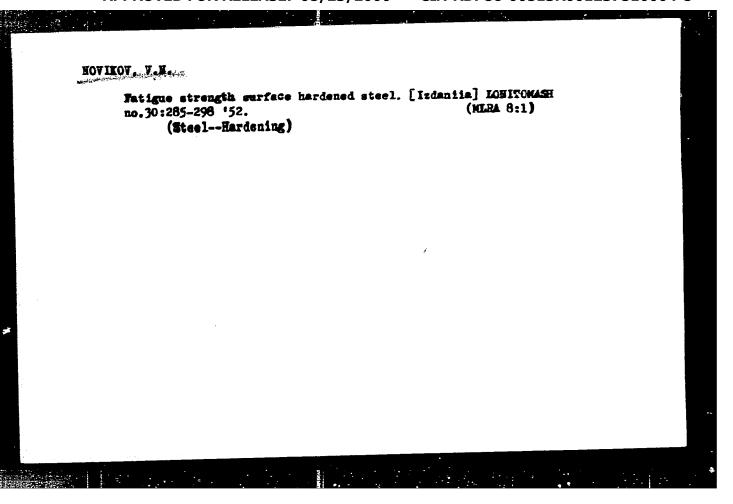
Condensation of 1-methyl-3-phenyl-5,6,7,8-tetrahydroisechroxylium perchlorate aldehydes of the aromatic and heterocyclic series.

[MIRE 18:4]
Zhur. ob. khim. 35 no.3:570-574 Mr 165.

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

Investigation of the strength of surface-hardened steel subjected to cyclic leads. Vest.mash.27 no.7:1-12 Jl '47. (MEMA 9:4) (Strength of materials) (Steel--festing)





HOVIKOV, V. N., Engr

"Electrical Heat Treatment of Rolls for Gold Rolling." Cand Tech Sci. Central Sci-Res Inst of Technology and Machine Building (TENTITMASH), 6 Dec 54. (VM. 26 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

# MOVIKOV, V.N., kandidat tekhnicheskikh nauk. Effect of surface hardening by heating with commercial frequency currents on the properties of work rolls for cold rolling. Metalloved. i obr. met. no.6:36-47 Je '56. (MLRA 9:9) 1. Tdentral'myy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya. (Metals--Hardening) (Rolls (Iron mills))

HOVIKOV, Vladimi. Mikolayevich; IVAHOV, Georgiy Petrovich; SAVUKOV, Vladimir raviovich; Marestovov, Ye.I., inshener, redaktor; BOBROVA, Ye.H., tekhnicheskiy redaktor

LElectric spark hardening of locomotive parts; practices of the Moscow depot of the Moscow-Kursk-Denbass railroad | Blektroiskrove uprochnenie detalei parovozov; opyt depe Moskva Moskovsko-Kursko-Ponbasskoi dorogi. Moskva, Ggs.trausp.shel-dor.izd-vo, 1957. (MLRA 10:7) 50 p. (Locomotives -- Repairs) (Electric spark)

SOV/137-58-11-22973

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 163 (USSR)

AUTHOR:

Novikov, V. N.

TITLE:

Local Heat Treatment of Welding Seams of Bulky Articles by Means of

Electric Heating (Mestnaya termicheskaya obrabotka svarnykh

soyedineniy krupnogabaritnykh izdeliy s primeneniyem elektronagreva)

PERIODICAL: V sb.: Prom. primeneniye tokov vysokoy chastoty, Riga, 1957,

pp 184-193

ABSTRACT:

The induction heating is accomplished with an apparatus which has the following technical characteristics: Power 215 kw, width of the zone of heating above the Ac3 point 250 mm, heating temperature ~ 1000°C during normalizing and 650° during tempering, voltage 190 v, current density 15 amp/mm². The effect of various heat-treatment procedures on the structure and mechanical properties of welding joints was investigated. The work was carried out on specimens cut, out of various spots on the welding seam of full-scale 200x1700x30,000 mm 22K steel plates and 200x500x1400 mm experimental plates. To diminish the loss of heat during electrical heating, the welding zones

Card 1/2

were covered with sheet asbestos. The heating temperature was

SOV/137-58-11-22973

Local Heat Treatment of Welding Seams of Bulky Articles (cont.)

controlled by thermocouples welded onto various areas of the welding seam. It is established that the structure upon electrical heating (normalization) and the mechanical properties of the articles heated electrically (normalized) are similar to those resulting from furnace treatment. The following procedure is recommended for the electrical heating of 22K steel: normalizing within the 960 - 1000° range, heating cycle including the leveling off of the temperature 50 hours, annealing at 600 - 660°, soaking for 2 hours, cooling rate (under a layer of asbestos) in the 1010 - 800° temperature range -250°/hour, in the 800 - 400° range 100°/hour and in the 400 - 200° range 35°/hour. The above-described technique for heat treatment of bulky plates eliminates warping and straightening and decreases the electric energy consumption by amout 95 percent as compared with treatment in furnaces.

Card 2/2

HOVIKOV. V. H., handidat tekhnicheskikh nauk.

Effect of residual etresses on the contact fatigue strength of rolls used in cold rolling. Metalloved.i obr.met.no.1:43-50 Ja 157.

(NEFA 10:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroeniya.
(Rolls (Iron mills)--Testing) (Steel--Fatigue)

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PHASE I BOOK EXPLOITATION

**30V/1891** 

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinestreyeniya

- Elekt oteradcheskaya ebrabetka i elektreiskrevoye uprachaeniye detaley; [sbernik] (Electric Heat Treatment and Electrospark Hardening of Parts; Cellection of Articles) Mescew, Mashgiz, 1958. 214 p. (Series: Its: [Trudy] km. 89) Errata slip inserted. 5,600 cepies printed.
- Ed.: I.Yu. Miloslavskiy, Engineer (Deceased); Ed. of Publishing House: I. Yu. Geller; Tech. Ed.: A. F. Uvereve; Managing Ed. for Literature on General Technical and Transport Machine Building (Machgis): E.A. Fonomareve, Engineer.
- FURFORE: This collection of articles is intended for engineering staffs of plants and scientific research institutes dealing with electric heating, electric heat-treatment, and electrosperk hardening of metals.
- COVERAGE: This collection of articles presents the results of scientific research work carried out by the Department of Temilitath (Central Scientific Research Institute of Technology and Machinery) calcalestric heating in the Field of high

Card 1/8

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Electric Heat Treatment (Cont.)

SOV/1891

and industrial-frequency heating and electrospark hardening of machine parts. The process of surface hardening, through hardening and tempering of steel and cast iron using induction-heating and electrospark methods, and the results of investigation of the effects of electric-heat treatment and electrospark hardening on the properties of steel and cast iron are described. A brief review of industrial applications of induction heating outside the Soviet Union view of industrial applications of induction heating outside the Soviet Union view of industrial applications electric-heating and electrospark hardening equiparts also presented. Various electric-heating and electrospark hardening equiparts developed by Tanillanah are described. The book was written for the 20th anniversary of the scientific research work of Tanillanah, Department of Electric Heating.

# TABLE OF CONTENTS:

Movikov, V. N., and Yu. M. Bogatyrev, Candidates of Tachnical Sciences. Work in the Field of Electric Heating and Electric Heat Treatment

The authors review the history of the development and application of electric heating and electric heat treatment of metals and describe new developments in the field. It is stated that for the past five years scientific and technological research work in the Department of Electric Heating was carried out in two principal directions: development of new production processes requiring high-temperature heating of

**Card** 2/8

. Electric Heat Treatment (Cont.)

SOV/1891

30

metals, and development of new equipment and modernizing old types of equipment and apparatus.

Bogatyrev, Yu.M., Candidate of Technical Sciences, and Ye.I. Rumyantseva, Engineer. Industrial Applications of Induction Heating Abroad

Based on available non-Soviet literature on induction heating, the authors survey various applications of induction heating outside the USSR. They describe the use of induction heating in the surface hardening of metals, in heat-treating welded joints, and in metal forging. In the conclusion it is stated that although induction-heating equipment is discussed in non-Soviet literature, there is a lack of information on the physical metal-lurgy of the electric heat-treating process.

Vashmova, T.A., and V.P. Fleshachkova, Engineers. Induction Heat Treatment of Bridge Crane Parts

The induction heat treatment of wheels, brake drums, and toothed sleeves of a 5-ton capacity bridge crane is described. The equipment used, and the regimes of heating, quenching, tempering, and data on deformation are given. This method is successfully used at the "Stallmost" Crane Building Plant.

Card 3/8

12

70

Electric Heat Treatment (Cont.)

sov/1891

Movikov, V.M., Candidate of Technical Sciences. Investigating the Properties and Life of Induction Quench-hardened Rolls for Cold Rolling

The author recommends replacing chronium steel with a steel of higher fatigue resistance, development of new processes of electric heat treatment of rolls, and insuring the most efficient distribution of residual stresses in rolls. Concerning operation of rolls, the following rules are to be observed: periodical low-temperature annealing in oil, use of lubricant with a lower friction coefficient (maintaining the mechanical properties of the initial metal workpiece), determination and maintenance of the effective temperature of rolls, increase in the strip tension during rolling, insurance of stable regimes of draft by maintaining the same thickness of initial strips, reducing unit pressure of the work on the rolls, and decrease of amount of the relative drafts.

Bogatyrev, Yu.M., Candidate of Technical Sciences, and V.P. Pleshachkova, Engineer. Deformation of Surface-hardened Steel.

The author discusses factors affecting the temperature of induction heating, the rate of cooling, the structure of the initial metal, and the regime of low-temperature tempering in deformation of ring-type samples of medium-carbon construction steel. The effect of replacing

Card 4/8

87

Electric Heat Treatment (Cout.)

SOV/1891

water by oil, and by other milder cooling agents, and the effect of the duration and the temperature of annealing are also discussed.

Klimochkin, M.M., Engineer. Surface Hardening of Hodular Cast Iron
The author presents the results of investigations on modular cast iron
heated for hardening by high frequency (300,000 to 350,000 cycles)
current. He describes the structure and hardness of the surface, wear
resistance, fatigue strength, and resistance to crack formation, and
gives recommendations as to how to meet all these quality requirements.

Bogstyrev, Tu.M., and S.M. Gamazhov, Candidates of Technical Sciences.

Electric Tempering of Surface-hardened Parts by Sectional Heating

The article deals with the following: distribution of temperature along and across specimens during electrical heating, the hardeness of specimens after surface hardening and induction tempering, the structure of the hardened layer, and the residual stresses in it.

The author compares the data obtained with results from the common method of heating specimens in a furnace and he stresses the pronounced advantages of induction heating.

Card 5/8

Electric Heat Treatment (Cont.)

50V/1891

Aleksandrov, V.V. (Deceased). Induction Heating-through of Large Section Steel Parts

131

The author describes methods and equipment for the heating-through of steel forgings and hot stamping blanks using induction heating and sectional heating of pipe. The latter constitutes the main subject of this paper. Detailed data on current, frequency, temperature, rate of heating, and thermal losses in heating various sizes of pipes are given.

Bogatyrev, Yu.M., Candidate of Technical Sciences. Structure and Properties
of Steel Subjected to Electrical Through-heating
The author analyzes the method of induction through-heating of steel,
the factors affecting uniform heating, and the cause of generation
of thermal stresses. The investigation covered distribution of temperature along the cross section of the blank during electric heating,
the structure of steel after treatment, and the mechanical properties
of steel.

Card 6/8

Electric Heat Treatment (Cont.)

807/1891

Lagerkvist, S.A., Engineer, Low-voltage Equipment for Industrial Frequency Induction Heating

170

The author discusses various types of inductors, including flexible case, for sectional heating of large parts using 50 cycles and up to 50 volts current. The simplicity of the construction of such inductors is indicated.

Ivanov, G.P., Candidate of Technical Sciences. Structure, Hardness, and Depth of a Layer Hardened by the Electrospark Nethod 186 The author discusses the mechanism of the electrospark hardening process and the effect of the current used and hardening time on the structure and depth of the layer. The dependence of hardness on the processing regimes and on the carbon content in processed steel is discussed and results of analysis of the structure are given. The author cussed and results of analysis of the structure are given. The author states that methods for mechanization of this process are now being developed.

Astaf'yev, S. S., Candidate of Technical Sciences. Electrospark Equipment Developed by Tamillach

204

**Card** 7/8

Electric Heat Treatment: (Contu)

807/1891

The author describes construction of two apparatus, the IAS-2M and IAS-3M developed by Tellimesh for electrospark hardening of steel surfaces. Technical specifications for both are given, and directions for operating the machines and results that can be obtained with them are included.

AVAILABLE: Library of Congress

GO/fal 8-3-59

Card 8/8

Novikov, V. H., Tutov, I. Ye., Candidates of Technical AUTHORS:

Science and Kondrashev, A. I., Engineer

Local Heat Treatment of Weld Joints Manufactured by TITLE:

Electric Slag Welding (Mestnaya termicheskaya obrabotka

svarnykh soyedineniy, vypolnennykh elektroshlakovoy

svarkoy)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 8,

pp 38-43 (USSR)

ABSTRACT: The single-pass electric slag welding of 100-400 mm thick components developed by the imeni Ye. O. Paton

Welding Institute (Institut svarki imeni Ye. 0. Patona) is widely used in Soviet industry. However, the heat treatment of large components (normalisation annealing and high temperature tempering), which has to be carried

and high temperature temperature, and if they are to be highly stressed in service, out if they are to be highly stressed in service. TSNIITMASh involves serious technological difficulties. TsNIITMASh and NKMZ investigated the problems involved in the process of electro-heat treatment of welded joints of very large

(100 ton) sheets of the Steel 22K. The sheets were butt welded with a wire electrode using a slag method.

50 c.p.s. current was used which ensures a relatively Card 1/5

129-58-8-8/16
Local Heat Treatment of Weld Joints Manufactured by Electric
Slag Welding

low speed and a high degree of uniformity of heating the plate along the cross section. The width of the zone which became heated to a temperature above the Acz point was 2.5 times as high as the width of the weld; beyond this zone the heating was effected as a result of the thermal conductivity of the material. The induction equipment ensured local heating of the weld by means of a group of flat single-phase multi-turn 50 c.p.s. inductors which were connected into a three-phase system; the heating was effected simultaneously from both sides along the entire length of the weld. The inductors are fitted into two revolving frames and are pressed onto the plate by means of pneumatic or hydraulic devices. The induction equipment had a rating of ,700 kVA. In Fig.1 the changes are graphed of the mechanical properties of the Steel 22K as a function of the heating temperature on the basis of experiments made by heating in the furnace at temperatures of 650 to 1050°C with a holding time of four hours at each temperature. The temperature Card 2/5 range 700-800°C proved to be the most dangerous one; the

Local Heat Treatment of Weld Joints Manufactured by Electric Slag Welding

yield point of the steel is reduced by such a heating and subsequent tempering at 600°C to 4-6 kg/mm². The best combination of mechanical properties is obtained in the case of normalisation annealing at 870 to 950°C. Since this steel is not prone to over-heating, induction heating in the weld up to 1050°C is considered admissible. Relaxation tests of the normalised steel showed that tempering at 650°C during 1 to 2 hours conserves the required mechanical properties of the normalised steel whilst eliminating almost entirely the residual stresses. The applied control equipment enabled achieving a full equalisation of the temperature throughout the entire thickness of the plate along the weld seam. The described investigations of the seam metal and the thermally affected zone allows the following conclusions to be made:

1) Normalisation annealing restores the over-heated coarse crystalline structure of the weld obtained during electric slag welding which leads to an improvement of the ductility of the steel. Irrespective of the method

Card 3/5

Local Heat Treatment of Weld Joints Manufactured by Electric Slag Welding

of heating after normalisation and tempering, the metal of the weld and of the near-weld zone will have a strength and mechanical characteristics equal to that of the base metal.

2) The most rational type of heating for normalisation annealing of the metal in the case of welds of large size plates is local induction heating by 50 c.p.s. current.

3) Local electro-thermal treatment of welded plates of

3) Local electro-thermal treatment of welded plates of the Steel 22K containing at least 0.22% carbon ensures obtaining mechanical properties which are in accordance with the requirements to be met by this sheet material.

The described new technology of heat treatment has been successfully introduced and is recommended for weld joints of tubes and steam pipings, high pressure vessels and various other components. If it is necessary to eliminate more fully the residual stresses in the welded component by high temperature tempering in the case of heating in furnaces, application of local electro-thermal treatment (normalisation) is rational and efficient for Card 4/5 welds produced by electric slag welding since it excludes

Local Heat Treatment of Weld Joints Manufactured by Electric Slag Welding

warping and the necessity of straightening of the welded components as is necessary during heating to high temperatures inside furnaces. There are 5 figures, 1 table.

ASSOCIATIONS: TENIITMASh and NKMZ

2. Welded joints--Properties 1. Welded joints--Heat treatment

3. Welded joints--Test results

Card 5/5

CIA-RDP86-00513R001237510004-8" APPROVED FOR RELEASE: 08/23/2000

HOWIKOV, V.N., kand.tekhn.nauk; BOGATYREV, Yu.N., kand.tekhn.nauk

Research in the field of electric heating and electic heat treatment. [Trudy] TSHIITMASH 89:5-17 '59. (MIRA 12:4)

(Induction heating) (Wetals—Heat treatment)

(Netallurgical research)

NOVIKOV, V.N., kand.tekhn.nauk

Investigating properties and durability of electrically hardened rolls for could rolling. [Trudy] TSWIITMASH 89:42-69 '59.

(MIRA 12:4)

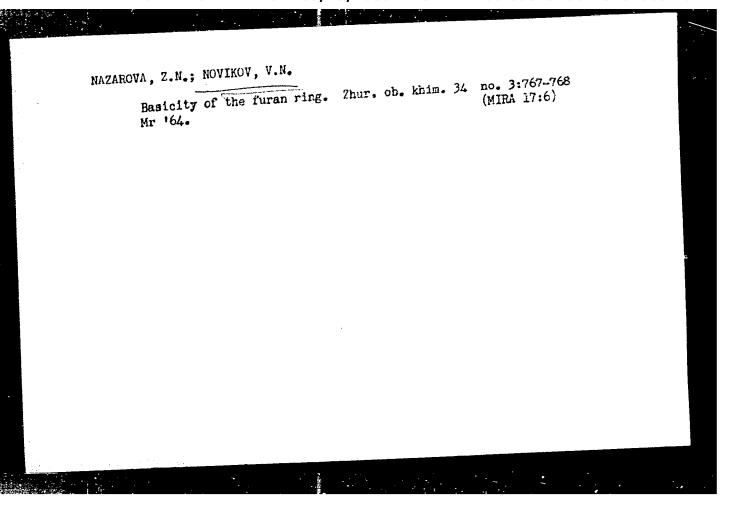
(Rolls (Iron mills)--Testing) (Gase hardening)

NOVIKOV, V.N.; NAZAROVA, Z.N.

Sulfides, ethers, and amines of the nitrofuran series.
Zhur. org. khim. 1 no.11:2022-2028 N '65.

(MIRA 18:12)

1. Submitted July 16, 1964.



NOVIKOV, V.N.; TOLSTOV, L.K.; SEREBRYAKOVA, Ye.K.; SOKOLOV, B.M.; Prinimal uchastiye: Melent'yev, Yu.I.; KAPGER, V.S.; ZORCHENKO, I.F.; KARPOV, K.F.; Kushnarenko, V.S.; SHEVCHENKO, L.I.; TRIFONOVA, N.I.; PODZHUNAS, V.A.; MASLITSKAYA, M.P.

Obtaining industrial naphthalene from the centrifugal naphthalene of the Gubakha Coke and Coal Chemicals Plant. Koks i khim. no.8: 35-38 162. (MIRA 17:2)

1. Vostochnyy uglekhimicheskiy institut (for Novikov, Tolstov, Serebryakova). 2. Gubakhinskiy koksokhimicheskiy zavod (for Sokolov).

DOROFEYENKO, G.N.; KARBAN, V.I.; DULENKO, L.V.; NOVIKOV, V.N.

Synthesis of some ketones in the furan and thiophene series.

Izv. vys. ucheb. zav.; khim. i khim. tekh. 7 no.3:432-436 164.

(MIRA 17:10)

1. Rostovskiy-na-Donu gosudarstvennyy universitet, kafedra khimii prirodnykh i vysokomolekulyarnykh soyedineniy.

DOROFEYENKO, G.N.; NAZAROVA, Z.H.; NOVIKOV. V.H.

Reaction of benzylidene and 'arfurylidene discrtophenone with acetyl perchlorate. Zhur. (b. khim. 34 no.12:3918-3921 D '64 (MIRA 18:1)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

L 52319-65 EFF(c)/EMP(j)/EMT(m)/T Pc-L/Pr-L RM

ACCESSION NR: AP5011239

UR/0303/65/000/002/0018/0021

13

AUTHOR: Bogacheva, Ye. K.; Novikov, V.N.; El'tekov, Yu. A.

TITLE: Adsorption of polymers on fillers and pigments

SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 2, 1965, 18-21

TOPIC TAGS: polymer adsorption, adsorption isotherm, filler, pigment, polydimethyl-siloxane, polyneopentyl phthalate, channel black, rutile, silica powder

ABSTRACT: The paper describes the adsorption of polydimethylsiloxane (PDMS) and polyneopentyl phthalate (PNPP) from dilute solutions of pigments and fillers. The polyneopentyl phthalate (PNPP) from dilute solutions of pigments and fillers. Nonporous PDMS was supplied by A.S. Novikov (NII RP), and the PNPP by the GIPI-4. Nonporous PDMS was supplied by A.S. Novikov (NII RP), and the PNPP by the GIPI-4. Nonporous PDMS and PNPP are given Adsorption isotherms of PDMS and PNPP are given

# "APPROVED FOR RELEASE: 08/23/2000 influence on the adsorption of Pums and in Section 19 and 1

#### CIA-RDP86-00513R001237510004-8

L 52319-65

ACCESSION NR: AP5011239

Orig. art. has: 6 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

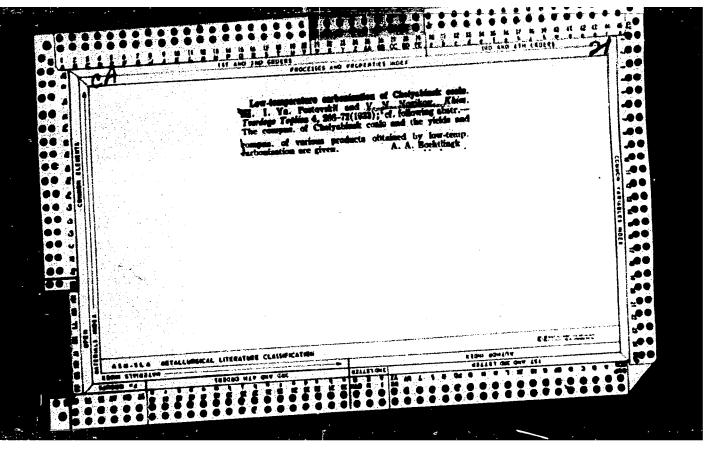
NO REF SOV: 007

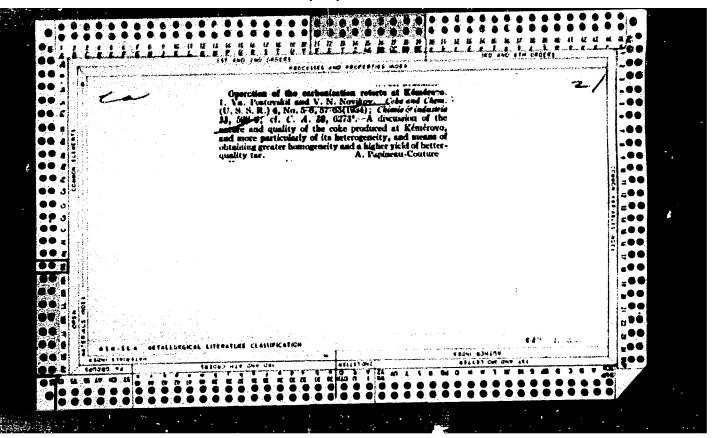
OTHER: 002

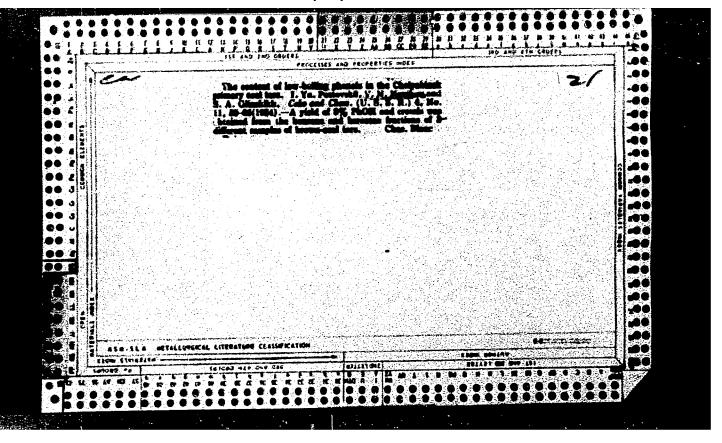
Card 2/APPROVED FOR RELEASE: 08/23/2000

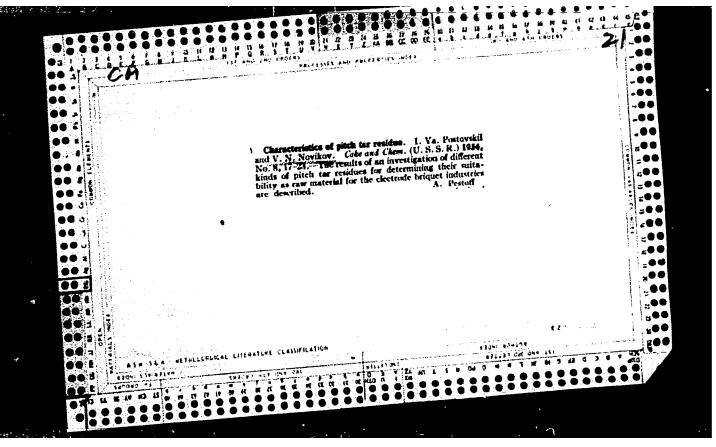
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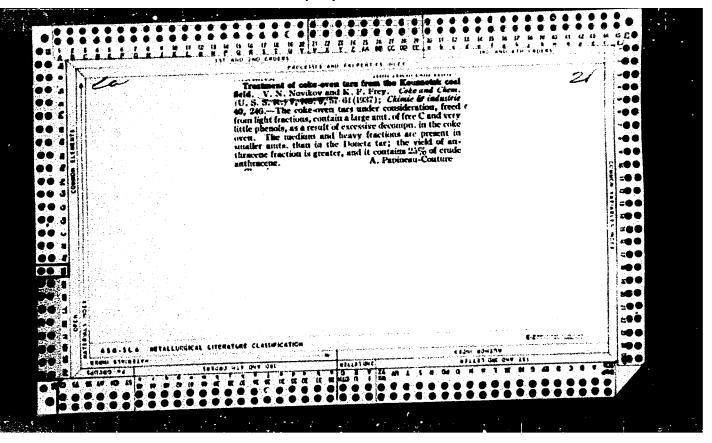
-	SYCHIKOV, G. I., KOVRIGIN, O. D., LATYSHEV, G. D., LONDARENKO, G. A., and  NOVIKOV, V. H.  "Conversion Electron Spectrum of an Iridium Fraction" (Paper presented at  BYCHIKOV, G. I., KOVRIGIN, O. D., LATYSHEV, G. D., LONDARENKO, G. A., and  NOVIKOV, V. H.  "Conversion Electron Spectrum of an Iridium Fraction" (Paper presented at  BYCHIKOV, G. I., KOVRIGIN, O. D., LATYSHEV, G. D., LONDARENKO, G. A., and  "Conversion Electron Spectrum of an Iridium Fraction" (Paper presented at  BYCHIKOV, G. I., KOVRIGIN, O. D., LATYSHEV, G. D., LONDARENKO, G. A., and	
	Irkutsk, 10-15 July 1964)	
	Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaiya (Bulletin of the Academy of Sciences USSR: Physics Series), Vol 30, No 1, Jan 1966, pp 162-166  Abstract: A large double-focussing magnetic beta spectrometer was used to study the iridium fraction of a gold target irradiated with 660 New protons study the iridium fraction of a gold target irradiated with 660 New protons	
	study the iridium fraction of a gold target internant the Joint Institute of Nuclear Studies. The energies and relative interact the Joint Institute of Nuclear Studies. The energies and relative interactions of the conversion lines of Irl89 and Irl90 are tabulated. Lines were observed for Irl88, Irl89, Irl90, and Irl93 but not for Irl92, which fact observed for Irl88, Irl89, Irl90, and Irl93 but not for Irl92, which fact is explained as due to the weakness of the source. The effects on the spectrum of traces of Rel83 and Ptl88 are discussed. The multipolarity of spectrum of traces of Rel83 and Ptl88 are discussed. The multipolarity of transitions 180.5, 147.0, 185.9, 197, and 233.5 kev was determined. Results, in general, agree with available data. Orig. art. has: 4 figures and 4 tables.	, 
	at the Joint Institute of Rutlean String and IrlyO are tabulated. Lines were sities of the conversion lines of Irl89 and IrlyO are tabulated. Lines were observed for Irl88, Irl89, Irl90, and Irl93 but not for Irl92, which fact observed for Irl88, Irl89, Irl90, and Irl93 but not for Irl92, which fact observed for Irl88, Irl89, Irl90, and Irl93 but not for Irl92, which fact observed for Irl88, Irl89, Irl88 are discussed. The multipolarity of spectrum of traces of Rel83 and Ptl88 are discussed. The multipolarity of transitions 180.5, 147.0, 185.9, 197, and 233.5 kev was determined. Results, in general, agree with available data. Orig. art. has: 4 figures and 4 tables.	

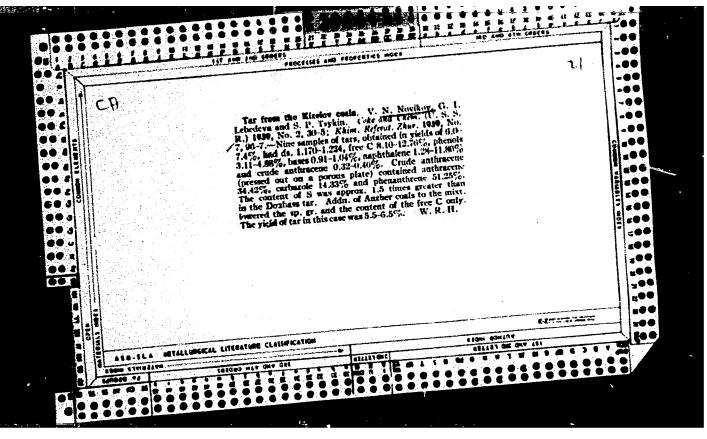


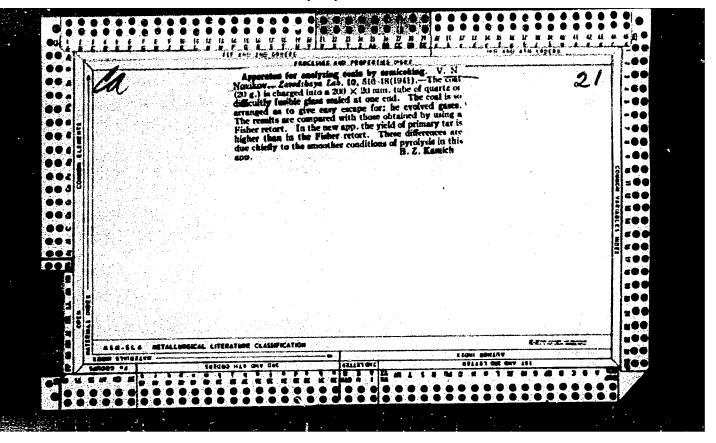


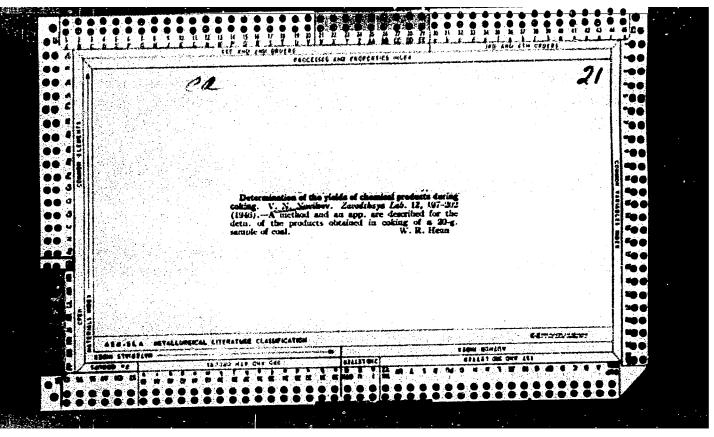


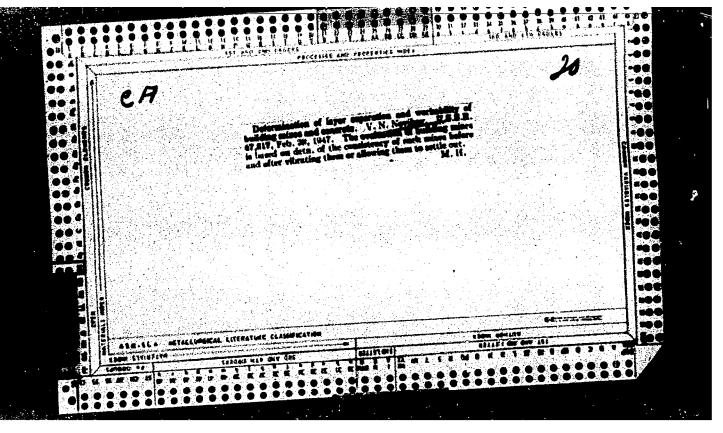












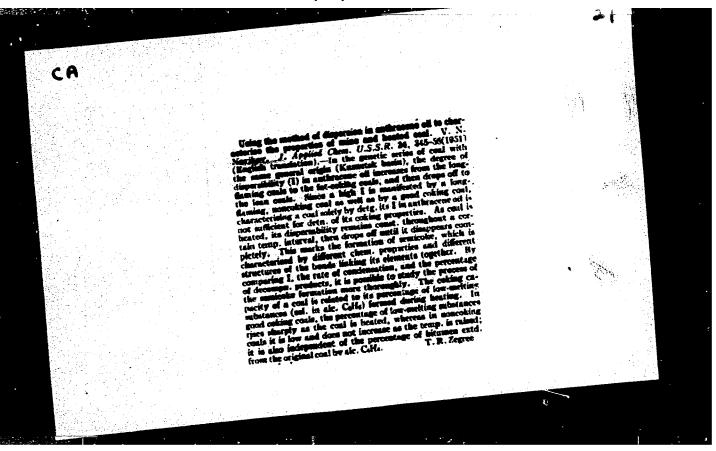
Tourn/Fuel - Coal
Coke

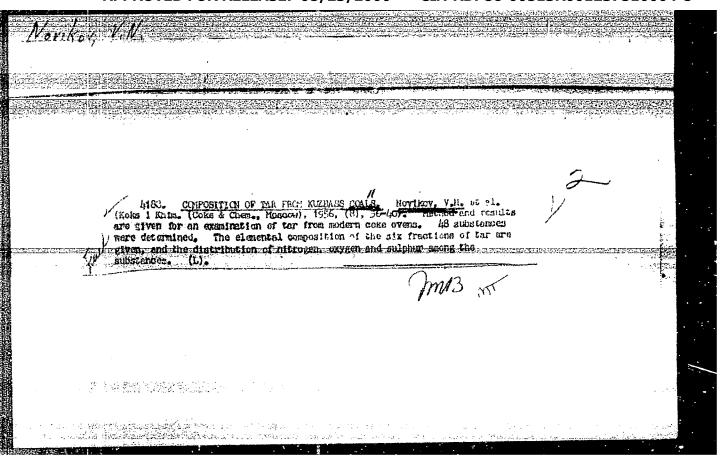
"Laboratory Method for Determination of Yields and Quality of Coke By-Products," V. M. Movikov, M. A. Gruzdeva, Eastern Sci Res Coal-Chem Inst, 8 pp

"Zavod Lab" Vol IVI, No 3

Develops methods which show good results in comparison with production data. Special refort for coal coking has been designed, in which pyrolysis chamber is directly connected with coking chamber. Method offers possibility of classifying coals as to yields and quality of chemical products obtained by any coking method now used.

	UMBR/Chemistry - Coal (Contd) Na From Kuznetsk, Karagands, Kizel(ov-sk). Relates behavior of coals in this respect to results ob- tained in distn (yields of water, tar, gas, etc)	Explains change of coking coals into plastic state than heated at 300-450°C as conversion of some components into liquid phase and colloided dispersion in latter of other solid components. Investi pation based on expt with dispersion of both unprocessed and heated samples of different coals	MARY Chemistry - Coal  Application of the Method of Dispersion in Anthraces Oil for Characterization of the Properties of Unprocessed and Heated Coals, "V. N. Movikov, Eastern Coal Chem Inst
177730	17730 Nar 51 Lates La ob- etc).	olic state some disper- Investi- oth un-	Anthra- ties or





NOVIKOV, V.N.

32-8-47/61

AUTHOR

NOVIKOV, V.N., GUREVICH, B.S.

TITLE

Apparatus for the Rectification of the Fractions of Coal

Pitch.

(Apparatura dlya rektifikatsii fraktsiy kamennougolnoy

smoly. - Russian)

PERIODICAL

Zavodskaya Laboratoriya 1957, Vol 23, Nr 8, pp 993-995,

(U.S.S.R.)

ABSTRACT

In the paper a new construction of the apparatus for the separation of the single fractions from the goal pitch is suggested in order to determine the composition of the latter. It consists of a boiler of 5 1 contents which is fixed on a stand. The boiler has a conical cover which ends in a supporting box and on the side has a connection for manometers. All is enclosed in a container. Under the boiler there is the main electro-heater. An additional heater is provided at the sidewall of the boiler. On top of the support of the boiler there is a column which is fixed by special devices in its vertical position. This column which is of 30 mm diameter, is filled with 3 mmand 0,5 mm rings. This ring column is divided into sections of 150 mm height each, between them a net cone is fixed with its peak directed downwards. Thus it is obtained that the liquid is directed from the on cone to the other inside

CARD 1/2

### "APPROVED FOR RELEASE: 08/23/2000

### CIA-RDP86-00513R001237510004-8

5(3)

507/80-32-3-29/43

AUTHORS:

Novikov, V.H., Gurevich, B.S.

TITLE:

The Dissolution of Coal in Coal Oils With the Furpose of Obtaining Coal Oil Pitch (Rastvoreniye ugley v kamennougol'aykh maslakh, s tsel'yu polucheniya uglemaslyanogo peka)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 628-636 (USSR)

ABSTRACT:

The optimum conditions for dissolving coals of various types in oil are investigated here. The types of coal studied are all mined in the Bastern part of the USSR (Table 1). The solvents used are: soft pitch with a softening temperature of 46°C, pitch tar, pitch distillate, the second anthracene fraction, etc (Table 2). The best results are obtained with gas and fat coal, the yield of which is 92% of the soluble part / Ref. 6, 9 %. The heavy solvents produce a homogeneous pitch which is hard and brittle and has only a low content of volatile matter. The light solvents produce an elastic resin-like pitch which has a low softening temperature. The optimum temperature for fat and gas coal is 300°C. At this point a noticeable decomposition of the

Card 1/2

SOV/80-32-3-29/43

The Dissolution of Coal in Coal Oils With the Eurpose of Obtaining Coal Cil Pitch

> coal is\_observed. The highest yield is obtained at 350-390°C Ref. 97. At higher temperatures irreversible condensation processes are accelerated. The low-boiling fractions are distilled and the yield of pitch decreases. The time needed for dissolution is short. A coal piece of 60-15 mm is dissolved in 3 min to grains of 3-5 mm. The concentration of the coal has a considerable effect on the quality of the pitch; the softening temperature increases as well as the ash content and the residue which is insoluble in toluene. The yield of volatile metter decreases.

There are 6 tables and 13-references, 7 of which are Soviet, 3 English, 2 German and 1 Belgian.

ASSOCIATION: Vostochnyy nauchno-isaledovatel'skiy uglekhimicheskiy iastitut

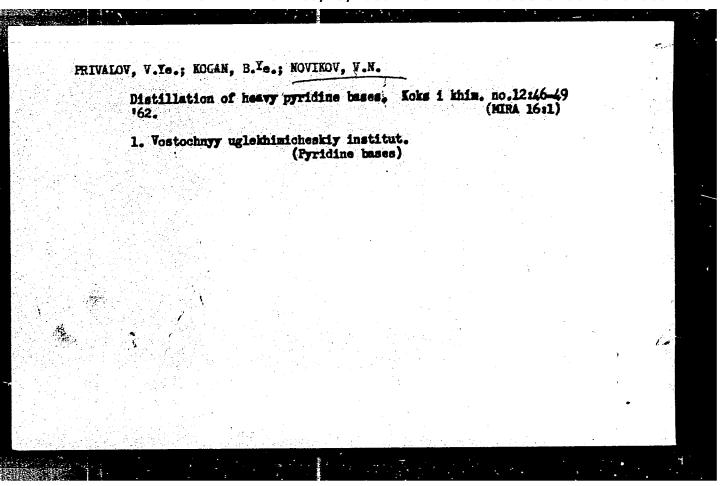
(All-Union Scientific Research Coal-Chemical Institute).

August 3, 1957 SUBMITTED:

NOVIKOV. V.N.; GUREVICH. B.S.

Technology of the production of coal-tar oil pitch. Koks i khim. no.2:45-49 '60. (MIRA 13:5)

1. Vostochnyy uglekhimicheskiy institut. (Coal tar products)



Card 1/2

S/080/62/035/001/001/013 D245/D304

AUTHORS: Shashmurin, P. I., Bolimer, Ye. P., and Novikov, V.N.

TITLE: Distribution of Ge during the coking of anthracite

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 1, 1962, 26-29

of coking coal using the isotope 71Ge as a tracer, added in the form of GeO<sub>2</sub>. The specimens were heated in a horizontal furnace to 900°C, the heating rate being to 250° in the first 30 minutes and then at 3° per minute. Asbestos filters in the tube were used to absorb the vapors formed, removing the tarry constituents. The results showed that 70 - 80% of Ge in the original coal was retained in the coke formed and that the gases evolved contained only traces (not more than 0.2% of the Ge content of the coal). Ge passing ces (not more than 0.2% of the Ge content of the coal). The Ge filters where it became reduced by H<sub>2</sub> and CO to Ge metal. The Ge on the asbestos could be easily recovered by boiling with 10% HNO<sub>3</sub>

Distribution of Ge ...

S/080/62/035/001/001/013 D245/D304

solution. It was shown experimentally that the <sup>71</sup>Ge tracer added was distributed in the products in exactly the same way as the natural Ge present in the coal. There are 2 figures, 2 tables and 1 Soviet-bloc reference.

SUBMITTED: December 31, 1960

Card 2/2

ACCESSION NR: AP4040966

S/0147/64/000/002/0003/0012

AUTHOR: Hovikoy, V. H.

TITLE: Weight analysis of fuel tanks for aircraft with liquid-fuel reaction engines

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1964, 3-12

TOPIC TAGS: fuel tank, aircraft fuel tank, minimum weight tank, stress analysis, tank weight analysis, strength analysis, tank shell buckling

ABSTRACT: The minimum-weight design of tanks for the liquid-fuel components of aircraft reaction engines is discussed. Stress distribution in the shell of a cylindrical tank under combined loading consisting of internal pressure, bending moment, and sxial forces is analyzed by using the membrane theory of shells. The complex action of this loading can cause either the buckling of the tank's shell or its rupture by meridional or hoop stresses. Design formulae for stability and strength of aircraft tanks are derived. Stress analysis of cylindrical rocket tanks of various arrangements for two-component

Card 1/2

## "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510004-8

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ACCESSION NI	R: AP40409	166			; ;	
liquid prope	llants is	presented.	The sti	ffening of th	e shell and	
of various p	urposes at	plein end ce discusse	d. Orig.	d tank shells art. has: 5	for aircraf figures and	<b>t</b>
39 formulas. Association:						
SUBMITTED:		ATD	PRESS: 3	1061	ENCL: 00	
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			是我们的"自己"的 在2000年,在1900年 李朝二载了第二号			
1			设置。 以为人类			
Card 2/2			and the second			LORGIDOTTI

BEDNOV, V.M.; SUKHORUKOVA, Ye.A.; NOVIKOV, V.N. Semimicroanalytical method for determining phenanthrene. Koks i khim. no.2:39-43 64. (MIRA 17:4) 1. Vostochnyy uglekhimicheskiy institut.

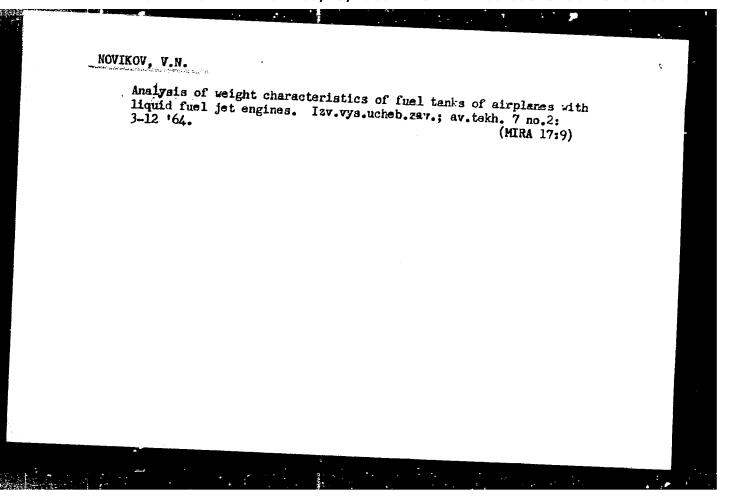
### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510004-8

SYCHIKOV, G.T.; KOVRIGIN, O.D.; LATYSHEV, G.D.; LONDARENKO, G.A.; NOVIKOV, V.N.

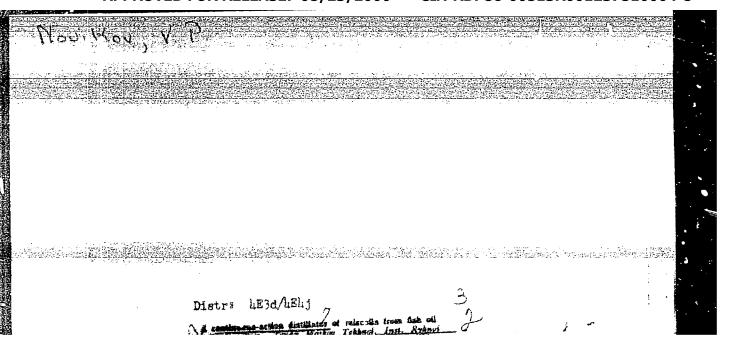
Spectrum of conversion electrons of the iridium fraction.

Izv. AN SSSR. Ser.fiz. 30 no.1:162-166 Ja 66.

(MIRA 19:1)



# "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510004-8



# WOV TROY . Y Postershiy geolog

Constraint G.S. Anan'sv's article "Some structural characteristics of the Kurchine trough in central Transbaikalia." Isv.vys.ucheb.zat.; geol.i rasv.5 no.6:130 Je '62. (AIRA 197)

1. Kruchininskaya geologo-seyemochnaya partiyav TSentral'nom Zahaykal'ye.

(Transbaikalia-Geology, Structural)

(Anan'ev, G.S.)

BUDTOLAYEV, N.M.; NOVIKOV, V.P.; SAUSHKIN, Yu.G.

Economic development of the eastern and western parts of the Soviet Union. Vest. Mosk. un. Ser. 5: Geog. 18 no.4:3-13
J1-Ag '63. (MIRA 17:2)

SIZYKH, V.I.; NOVIKOV, V.P.; SAPOZHNIKOV, V.P.; FOMIN, I.N.

Pre-Cambrian of the Malkhan Range and the southwestern part of the Yablonovyy Range. Mat. po geol. i pol. iskop. Chit. obl. no.1:21-26 '63. (MIRA 17:6)

NOVIKOV, V. P., Candidate Vet Sci (diss) -- "The epizootiology of certain strongy-loses of the digestive tract of sheep in Leningrad Oblast". Leningrad, 1959.

20 pp (Min Agric USSR, Leningrad Vet Inst), 200 copies (KL, No 25, 1959, 138)

EETEKHTIN, Georgiy Aleksandrovich; NOVIKOV, Vasiliy Platonovich

[Use of removable twine healds in the handlooming of rugs] Primenenie snemnykh nitianykh galev remiza v ruchnom kovrotkachestve. Moskva, Gosmestpromizdat, 1962. 5 p. (MIRA 16:11)

(Rugs and carpets) (Looms)

HOVIKOV, V.P.

Equilibrium mixture of phases of the system glycerin-water. Masl.whir.prom.21 no.6:16-18 '55. (NURA 8:12)

1. Mosrybytus (Glycerol) (Soap)

S/145/62/000/009/005/005 D262/D308

AUTHORS:

Chunayev, M.V., Candidate of Technical Sciences,

Docent, and Novikov, V.P., Engineer

TITLE:

An automatic installation for pouring aluminum alloys in die-casting machines with a cold compres-

sion chamber and chill casting

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Mashino-

stroyeniye, no. 9, 1962, 167-173

TEXT: This new automatic installation, designed, constructed and tested by the MVTU im. N.E. Bauman, is based on the design of the existing installation, and consists of a measuring pouring ladle, operated by a pneumatic-hydraulic driving mechanism which draws metal from the distributing crucible. A vertical hydraulic cylinder in the driving mechanism draws up the metal. The device is also provided with 2 pneumatically operated horizontal cylinders, placed one above the other. The upper cylinder is used for the removal of waste metal,

Card 1/2

An automatic installation ...

S/145/62/000/009/005/005 D262/D308

whilst the lower moves the ladle and tilts it for pouring. Automatic control of the installation is executed by an electric system which also allows automatic interlocking, and is designed for semi-automatic and automatic operating conditions. There are 3 figures and 2 tables.

ASSOCIATION:

MVTU im. N.E. Baumana (MVTU im. N.E. Bauman)

SUBMITTED:

July 12, 1962

Card 2/2

### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510004-8

NOVIKOV, V.P.

USSR 600

Cats

Effect of lack of water in the soil on cats in various stages of development. Dokl. AN SSSR, 82, No. 4, 1952. Leningradskiy Gosudarstvennyy Pedagogicheskiy Institut im. A.I. Gertsena red. 1 Dec. 1951.

SO: Monthly List of Russian Accession. Library of Congress, June 1952, Uncl.

# MOVIKOV, V.P.

Development of out panicles under varying conditions of water supply. Bot.zhur. 39 no.1:17-20 Ja-F '54. (MIRA 7 (MIRA 7:3)

1. Leningradskiy Gosudarstvennyy pedagogicheskiy institut im. A.I.Gertsena. (Oats)

### NOVIKOV, V.P;

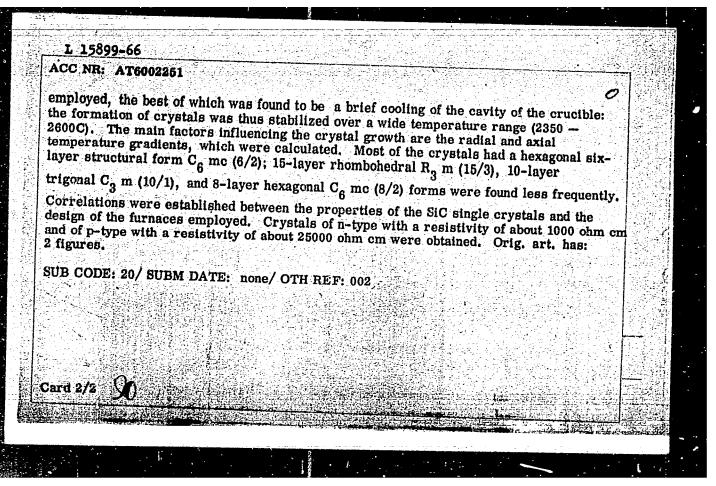
Manifestations of premature deterioration of the spine following an acute trauma. Trudy LIETIN no.16:343-355 164.

Manifestations of degenerative-dystrophic processes developing after an acute trauma in macerated preparations of vertebrae. Ibid.:356-366 (MIRA 19:1)

1. Pervyy Leningradskiy meditsinskiy institut imeni akademika I.P. Pavlova.

### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510004-8

ENT(m)/ETC(f)/ENP(b)/T/ENP(e)/ENP(t)/ENG(m)/ ACC NR: AT6002251 AT/WE/JD/JG SOURCE CODE: UR/2564/65/006/000/0203/0205 AUTHOR: Novikov, V. P.; Ionov, V. I. ORG: None TITLE: Preparation of alpha-silicon carbide[single crystals [Paper presented at the Third Conference on Crystal Growing held in Moscow from 18 to 25 November, 1963] SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 6, 1965, 203-205 TOPIC TAGS: silicon carbide, crystal growing, crystal structure ABSTRACT: The article deals with the study of certain factors affecting the growth and properties of  $\alpha$ -SiC single crystals grown from the vapor phase by the method of J. A. Lely (Ber. deutsch. keram. Ges. 32, 229, 1955). The method was substantially improved by using a thin-walled sleeve forming a cavity and having apertures for discharging the crystals; the advantage of the sleeve is that it restricts the disordered growth of crystals and makes it possible to use powdered SiC synthesized from pure materials and to equalize the thermal field inside the cavity. To increase the probability of nucleation, various methods of producing supersaturation at the start of the growth process were Card 1/2



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Light industries of the Russian Federation in 1957. Leg.pron.
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1. Kinistr legkoy promyshlenmosti RSFSR.
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