장이 지지가 하는 것이 되었다. 그는 그 가는 생각이 되었다면 되는 것이 되었다. 모든 이 점점이

Polymers with conjugate bonds...

S/190/62/004/006/012/026 B110/B138

Polymers obtained from metals had much higher heat stability than those obtained from copper acetylacetonate, since the acetylacetonate groups bonded to a metal of different valences initiate chain decomposition into peroxide radicals. The magnetic susceptibility depends on the flux density and temperature, and is higher ($\aleph = 1.03 \cdot 10^{-5}$ CGSM) (2000, 3500 Card 3/4

Polymers with conjugate bonds...

\$/190/62/004/006/012/026 B110/B138

acidic substances were obtained here after 5 - 20 hr at 150 - 450°C. The black, infusible, hygroscopic polymers obtained from tetraethylene cyanide and copper acetylacetonate (2:1) were insoluble in common organic substances, variously soluble in dimethyl formamide, pyridine, triethanolamine and concentrated H₂SO₄. The IR spectra of the films obtained from

tetraethylene cyanide and copper showed a background at 700 - 1800 cm⁻¹ which is typical for built-up or planar polymers with conjugate bonds. Polymers from copper acetylacetonate showed a wide asymmetric absorption

band at 1700 - 1400cm⁻¹. For all polymers the absorption maximum lies at $\approx 2210~{\rm cm}^{-1}$, which corresponded to the CaN bond. The intensive background confirmed the strongly branched system of the conjugate bonds. The degree of order depends on conditions of synthesis. Polymers obtained from copper acetylacetonate showed abnormal η/c dependence on c, similar to polyphenylenes and polyamophenylenes. The presence of neighboring CaN groups points to the formation of energetically favorable, flat azoporphin structures with or without chelate-like bonded metals:

Card 2/4

\$/190/62/004/006/012/026 B110/B138

AUTHORS: 1

Berlin, A. A., Matveyeva, N. G., Sherle, A. I.,

Kostrova, N. D.

TITLE:

Polymers with conjugate bonds and heteroatoms in the conjugate chains. XXI. Polymeric complexes of tetraethylene

cyanide

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 860-868

TEXT: The preparation of polymers from tetraethylene cyanide and metals or metal salts was studied because: (1) tetraethylene cyanide has a planar structure, which permits conjugation via nitrile groups; (2) it shows four nitrile groups on two carbon atoms, and may form cyclic structures with and without metal atoms; (3) polymers obtained from it and the metals have so far been the only "inorganic" macromolecular compounds with directly bonded carbon, nitrogen and metals; and (4) because of the high vapor tension and heat stability of the monomer polymer complexes can be formed directly on the metal surface (Cu, Fe, Ni, Al etc). Black films which were insoluble in organic, alkaline, and

Card 1/4

LIMANOV, V.Ye.; KOSTROVA, N.D.; MOSEKOVSKIY, Yu.Sh.; IZMAIL'SKIY, V.A. Hydrogen bond and configuration of molecules p- and m-H-[$oldsymbol{eta}$ -(4-hitrophenyl)-ethyl]-aminophenol. Izv.vys.ucheb.zav; knim. i khim. tekh. 4 no.5:867-868 161. (MIRA 14:11) 1. Institut khimicheskoy fiziki AN SSSR i Moskovskiy gosudarstvennyy pedagogicheskiy institut imeni Lenina. (Phenol-Spectra) (Hydrogen bonding)

27738

Polymers with conjugated bonds.

\$/190/6:/003/0:1/008/0:6 B110/B101

is suggested by the parallelism between the intensity if cent nice, absorption in the infrared range of the spectrum and the concert proof unpaired electrons in the polymer sample. This, however, will have to be confirmed by further investigations. There are 5 figures, so flower references

ASSOCIATION: Institut khimicheskoy fizik: AN SOOR (Trotatore as

Chemical Physics AS USSR)

SUBMITTED: December 23 1960

Date 5/3

15 8600 1372 2209 1234

29738 \$/190/61/003/011/008/016 B110/B101

AUTHORS:

Moshkovskiy, Yu Sh., Kostrova, N. D., Berlin, A. A

TITLE.

Polymers with conjugated bonds and neterestems in the conjugated chain. XVIII. Some peculiarities of infrared spectra of polymers with conjugated bonds

Vysokomolekulyarnyye soyedineniya, v 3, no. 11, 1961, 1669 PERIODICAL: - 1672

TEXT: The authors studied the infrared spectra of linear and trimeric carbochain polymers with linear conjugated chain for peculiarities connected with the appearance of epr spectra. By means of Wkl-11 (IKS-11) and UKC-14 (IKS-14) spectrometers, they investigated: yellow polyphenyl acetylene (PPA) thermally polymerized in Ar atmosphere at 150°C (1) $(\overline{M}_n = 1200)$; PPA after additional thermal treatment at 300 (II) and 400°C (III); unmeltable and unsoluble trimeric block copolymer from PPA and p-diethinyl benzene (PDEB) (IV); polyazophenylene (PAP) (V) $(\overline{M}_n = 650)$ and its trimeric block copolymer with PDEB (VI); poly PDEB (VII) and the Card 1/3

: USSR Country Category : Ferm Animals. Q Poultry. Aba. Jour : Ref Zhur-Biol., No 21, 1958, 96906 : Pigarev, N. V.; Kostrova, L. A.; Chavchanidze, All-Union Scientific Research Institute of the Author Institut. Titlo : The Characteristics of Feather Shedding in Laying Hens Kept in Cages. Oriz Pub. : Tr. Vses. n.-i. in-ta ptitseprom-sti, 1956, 6, **132-1**37 Abstract : The experiment was conducted on Leghorn hens placed in individual cages under feeding and keeping conditions which assure high productivity indicators. The hens were exposed to light for not less than 14 hours per day. Laying hens were examined every 10 days, the number of replaced wing feathers was counted, and the shedding of the outer feather cover was observed. It was found that shedding of wing feathers is not indicative for the state of shedding of the outer feather cover. Wing fea-Card: 1/3 *V. L. **Fowl Industry.

<u>/FD_FOR_REL_FASE: 06/23/11:__CIA-RDP86-00513R000825300054-6</u> Country : USSR Category : Farm Animals. Q Poultry. : Ref Zhur-Biol., No 21, 1958, 96912 Abs. Jour Author Institut. Title Orig Pub. :10-day periods.

Hens behave quietly in individual cages, they eat calmly and rest after being fed; also, incidences of various trama are excluded. -- S. G. Abstract Petrov 5/5 Card:

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	Country Category	: USSR : Farm Animals. Q Poultry.	
	Abs. Jour	: Ref Zhur-Biol., No 21, 1958, 96912	47.
	Author Institut.	: :	
	Title	:	
	Orig Pub.	•	3
	Abstract	month old hens could serve as a criterium for their subsequent egg productivity. In another experiment, 30 young hens with good egg produc- tivity were transferred at the age of 11.5 months from individual cages to group cages (with an area of 0.5 m ² each) with 5-6 hens in	
		each cage. The egg productivity dropped sharply and only at the end of the month gradually approached the level of the control group which has remained in individual cages. When in a third experiment 119 laying hens 12.5	
	Card:	3/5	
	Card:	4/5	

OR RELEASE: 06	s/23/11: CIA-RDP86-00513R000825300054-6	
Aba. Jour	Farm Animals. Poultry. Ref Zhur-Biol., No 21, 1950, 96912	Q
Author Institut. Title	: Pigarev, N. V.; Kostrova, L. A.; Chavelan : All-Union Scientific Research Institute of : Certain Chracteristics of the Egg Laying (city of Hens Kept in Cages.	f the
Orig Pub.	: Tr. Vses. n1. in-ta ptitseprom-sti, 1950	5, 6,
Abstract	97-107 From the age of 51/2 to 18 months 86 laying hens which were kept in separate coops of m2 each were divided into 3 groups accorded to their egg productivity: up to 130 eggs. 190 eggs, and 191 and more eggs. A compariof monthly egg productivity demonstrated thens with a low yearly productivity laid cent less eggs during the first 3 months to	0.14 lng 131- lson
Card:	1/5 *V. I. **Fowl Industry.	
	58	
	secutive months on the basis of their ind dual egg productivity during the first fe months. Only the egg productivity of 11.5	i we
Card:	2/5	

L 7689-66 EWP(t)/EWP(b) LIP(b) JD SOURCE CODE: CZ/0043/65/000/001/0034/0040

AUTHOR: Treivil, Ludovit-Traindl, L. (Doctor; Candidate of sciences); Kostrova, Lubica (Graduate chemist)

ORG: Faculty of Inorganic and Physical Chemistry, Department of Natural Sciences,
Comenius University, Bratislava (Katedra anorganickej a fyzikalnej chemie Prirodoveckej
fakulty University Komenskeho)

TITLE: Polarographic study of kinetics of reduction of bromates by sulfocyanates

SOURCE: Chemicke zvesti, no. 1, 1965, 34-40

TOPIC TAGS: bromate, thiocyanate, chemical reduction, chemical kinetics, polarography

ABSTRACT: The study was based on the influence of time upon the limiting currents of the bromates. Reaction velocity corresponds to a kinetic equation of the first order, even at equal concentrations of both reactants. The rate constant increases linearly with increasing sulfocyanate concentration, and with the square of the concentration of H ions. On the basis of the changes of the rate constant with temperature, the activation energy of 11.4 k cal/mole and an activation entropy of 28.0 cal/g mole were determined. A discussion of the partial reactions of the decomposition of the unstable compound Brog. SCN that is formed is presented. Orig. art. has: 5 figures, 6 formulas, I table. /JPRS/

wara with

KNIGA, N.P.; KOSTROVA, K.M. men in many and received by the resident of the second of Late results of tons illectomy. Zdrav. Belor. 5 no.2:9,10 F '59. (MIRA 12:7) 1. Iz kliniki bolezney ukha, gorla i nosa Minskogo med. instituta. (TONSILS --- SURGERY)

Kishawa, K. H. A STROVA, k. ..: "Selcrome in childrone has adopted here." Thingh State her 'cil Inst. Mach., 1996. (Disserbation for the degree of Cauditate in England Selences) Do: Katalange belooks, to 36, 1 jc, for con.

KOSTROVA, K. E. "Temperature Reaction Following Bronchoscopy and Trachectory in Coleratic Cases," Vest. Oto-rino-larihgol., No. h_\star , 1948. Otorninolaryngological Clinic, Belorussian Med. Inst. Hinsk.

KOSTROV, Yuriy Anatol'yevich; ZAZULINA, Z.A., kand. tekhm. nerk, dots., nauchn. red.; ISH, N.N., red.; OSTROVA, I.M., red. [Acetyl cellulose fibers] Proizvodstvo atsetiltselliuloznogo volokna. Moskva, Vysshaia shkola, 1964. 70 p. (MIRA 18:2)

SOKOLOVA, V. A., KOSTROV, Yu. A.

Economic prefitableness of a speeded-up development of the production of scetate cellulose fibers. Khim. volok. no.6: 28-30 62. (MIRA 16:1)

1. Serpukhovskiy f. lial Vsesoyuznogo nauchno-issledovatel - skogo instituta iskustvennogo volokna.

(Cellulose acetates)
(Textile fibers, Synthetic)

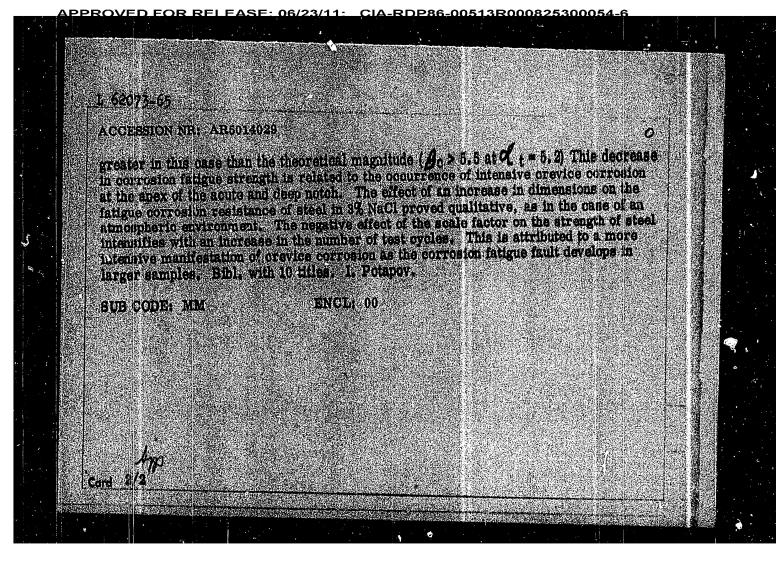
KOSTROV, Yu.A. Acetylcellulose staple fiber of new types. Khim.volok no.4:1-3 162. (MIRA 15:8) 1. Vsesoyuznyy nauchno-issledovateliskiy institut iskusstvennogo volokna. (Cellulose acetate)

RYAUZDV, A.N., GRUZDEV, V.A., KOSTROV, Yu.A., SIGAL, M.E.;
GERSHMAN B.G., rod., VVATKITA, N.V., rel. [Technology of the manufacture of synthetic fibers] Tekhonologila proizvodstva khimicheskikh volokon. Moskva, Khimita, 1965. 516 p. (MIRA 18/8)

L_11446-67_ ACC NR: AP6029683 same limit in air. The reduction in protection effectiveness with excess current is highest for the hard steel. The curves produced are the result of the interaction of two features: the increased protection due to the cathode effect and the reduction in fatigue strength due to absorption of hydrogen. Orig. art. has: 3 figure and 1 table SUB CODE: 11/, SUBM DATE: 14Dec65/ ORIG REF: 008/ OTH REF: 005

	ACCESSION NRI. ARSO14098
	of steel in a forged state. Patigue failure of the tested steel in air and in the NaCl soluti was intercrystalline in charloter. Bibl., with I titles. L. I stapov.
	BUB CODE: MM ENCL: 00
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i c	rd 2/s 2/s
Although soft st	The curve of effectiveness of protection vs current density prove a manual has with the optimal cathode polarization the corrosion-fatigue resistance of the seels is practically the same as in air, the maximal limit of corrosion-fatigue
	th of the hard steel, with optimal current density, is still 20% less than the
Card 1/	2

EPY(G)/EMP(E)/EMP(E)/EMT(d)/EMT(m)/EMP(b)/EMP(b)/T/EMA(d)/ TO POLITICAL AND POLITICAL PROPERTY AND PARTY A Descrotoving Actional UR/6277/68/000/003/0011/0011 669.14.018.8: 620.194.8 SCURCE: Rec. 25. Mashinostrottel'nyys materialy, konstrukteli i raschel detaley mashin. Gidroprivod. Ozdal'nyy vypust, Ans. 3,48,78 AUTHOR Gilleman, L.A., Kostrov, Y., N. PAULE: Efficient interconversabiling accretion disceptibility in type 18-8 stainless steel on de nom actorità d'appendinc de di CITED SOURCE: Sp. Lorrozion, ustalost' metallov. L'vov, Kamenyar, 1964, 96-104 TOPIC TAGS: corrosion latigue strength, stainless steel, intercrystalline corrosion, steal corresion, cast steel, austenite steel, tempered steel, steel fatigue/LKh18N9 steel THANSLATION: The study concerned the effects of the intercrystalline corrosion susceptibility of stainless steel (Khisne in the cast, austenitized or tempered state on its corrosion fatigue strength. Fatigue tests involved simple bending on an NU unit in air and in a corrosive environment. The reduction of corrosion fatigue strength in 8% NaCl was nuticeab. Treater (about 22%) for east steel after sustenitizing than for the same type Cere 1/2



(\$20(6)/\$80(6)/\$80(6)/\$80(6)/\$7/\$84(6)/\$80(9)/\$80(5) 186207**3**467 MH/JI/AR UR/0277/65/000/008/0011/0011 ACCUESTION NR. AR501402H 669, 14, 018, 8, 620, 194, 8 SCURCE: Ref. 2h. Mashinostroitel nyve materialy, konstruktsii i raschet detaley mashin, Giftroprived, Otel byy vypusk, Abs. 3, 48,70 ATTRIOR CLIKING, LA, KOTEON YO AL PILLE: Characteristics of corresion fatigue fatture in stainless steel 1Kh18N9T CITED SOURCE: Sb. Korrozion, ustalest metallov, Livov, Kamenyar, 1984, 16-26 TOPIC TACS: stainless steel, correston fatigue test, steel fatigue, stress concentration, ateel corresion, notch geometry, scale factor, crevice corresion/iKhicher steel TRANSLATION: Smooth (#\$10 and 60 mm) and notched samples were used to study the corrosion (atigus strength of stainless steel LKhlaner). Tests with smooth samples of small diameter (10 mm) indicated high corrosion farigue strength of steel 1KhisN9T in 3% NaCl. A sharp decrease in corrosion latigue atrength was noted for samples with streas concentrators. The corrosion fatigue strength in sharply notched samples was 70 n/mm² at about 10.107 cycles. The actual value of the concentration factor proved Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300054 VYSCTERIY, A., minach y matchegy retronerty state. E. ha., harr-tesmanack, EOS TROV, Ye., kard-tekin, math, size . O man high a bring s Greenling optioners were madeling to the owner of theory internal combination engines. More, i of the action of the profile (MIRA 18 ())). Therefore the state is the state of (for lyndaki.).

KOSTROV, Ye.M., kand. tekhn. mauk; SHEKROVESEV, Ye.D.; MARGIE, V.V.; KAGANOVICH, I.S. Effect of corrosion inhibitors on the corrosion-fatique strength of steel and cast iron. Trudy TSNIMF 57:51-60 164.

The effect of the scale factor upon the...

\$/137/62/000/011/034/045 A006/A101

of 2 factors: namely, the corrosion and the mechanical factor. Then the relative share of these factors, under otherwise equal conditions (material, frequency of cycles, shape and dimension of specimens, corrosion medium), depends upon the basis of the cyclic effect. There are 16 references.

N. Lukashina

[Abstracter's note: Complete translation]

Card 2/2

5/137/62/000/011/034/045 A006/A101

AUTHORS:

Glikman, L. A., Kostrov, Ye. N.

TITLE:

The effect of the scale factor upon the corrosion-fatigue strength

of metals

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 113 - 114, ab-

stract 111741 (In collection: "Tsiklich. prochnost' metallov",

Moscow, AN SSSR, 1962, 187-198)

TEXT: The authors studied the effect of the scale factor upon the corresion-fatigue resistance in sea water of the following materials: structural carbon steel CT 40 (St 40) in annealed state, structural Cr-Ni-steel 40 XH (40KhN), stainless austenitic steel 1 X18 H 9 T (1Kh18N9T) in rolled state, brass ЛМЦЖ 55-3-1 (LMtsZh55-3-1) and ЛАМЦЖ 67-5-2-2 (LAMtsZh67-5-2-2) in cast state. Results are presented on variations of the corrosion-fatigue strength of all materials under atmospheric conditions, in 3% NaCl (Imitating sea water) and fresh water, depending upon the frequency of cycles, the shape and dimension of specimens. The process of corrosion-fatigue failure is determined by the interaction

Card 1/2

GLIKMAN, L.A., doktor tekhn.nauk; BABAYEV, A.N., kand.tekhn.nauk; KOSTROV, Ye.N., kand.tekhn.nauk; DAMASKINA, O.L., inzh. Fatigue strength and residual streases in steel specimens surfaced with 1Kh13 high-chromium stainless steal. Trudy LMZ (MIRA 1686) no.98138-151 162. (Thermal stresses) (Steel - Fatigue)

sov/6025 Cyclic Metal Strength (Cont.) EFFECT OF THE STRESS CONCENTRATION AND THE SIZE FACTOR ON THE FATIGUE STRENGTH Oding, I. A., and S. Ye. Gurevich. Notch Sensitivity of 169 High-Strength Steels Under Cyclic Load Oleynik, N. V., and I. S. Mezentsev. Effect of Stress Concentration on Characteristics of the Summation of 177 Fatigue Damage Glikman, L. A., and Ye. N. Kostrov. Effect of the Size 187 Factor on Resistance of Metals to Corrosion Fatigue Markovets, M. P. Technological Theory of the Size Factor 199 in Fatigue Tests CYCLIC TOUGHNESS AND INTERNAL FRICTION 207 Postnikov, V. S. Internal Friction and Strength Card 6/9

CIA-RDP86-00513R000825300054-6

APPROVED FOR RELEASE: 06/23/11:

Cyclic Metal Strength (Cont.)

SOV/6025

and growth of fatigue cracks, the role of plastic deformation in fatigue fracture, an accelerated method of determining fatigue strength, the plotting of fatigue diagrams, and various fatigue test methods. New data are presented on the sensitivity of high-strength steel to stress concentration, the effect of stress concentration on the criterion of fatigue failure, the effect of the size factor on the strength of metal under cyclic loads, and results of endurance tests of various machine parts. Problems connected with cyclic metal toughness, internal friction, and the effect of corrosion media and temperature on the fatigue strength of metals are also discussed. No personalities are mentioned. Each article is accompanied by references, mostly Soviet.

TABLE OF CONTENTS:

NATURE OF FATIGUE FRACTURE

Oding, I. A. Diffusionless Mechanism of Formation and Growth of a Fatigue Crack Card 2/#

KOSTROV, YEN.

MOLLY TOOK BY TOTAL STAND

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115

Soveshchaniye po ustalosti metallov. 2nd., Noscow, 1950.

Talklicheskaya prochmost' metallov; materially viorogo sevenhehaniya po ustalosti metallov, 24 - 27 maya 1950 g. (Gyelle Hetall Strength; Haterials of the Second Conference on the Patigue of Metals, held May 24 - 27, 1960) Moscov, Esd-vo Al SSSR, 1962. 338 p. Errata slip inserted. 2000 copies printed.

Resp. Ed.: I. A. Oding, Corresponding Member of the Academy of Sciences of the USSK; Ed. of Fublishing House: A. M. Cherney; Tech. Ed.: A. P. Guseva.

PURPOSE: This collection of articles is intended for selectific research workers and metallurgists.

COVERAGE: The collection contains papers presented and discussed at the second conference on fatigue of metals, which was held at the Institute of Metallurgy in May 1960. These papers deal with the nature of Tatigue fracture, the mechanism of formation

Card 1/#

SOV/32-25-4-31/71

Tests for Corrosion Fatigue in Bending and Torsion

moment (Fig 2). The working principle of the machine consists in the fact that by an eccentrically loaded, rotating vertical axis a torsional moment varying in magnitude and direction is produced on the sample. The frequency of the load cycles is determined by the speed of the electric motor driving the vertical axis, and amounted to 2300-2500 cycles/minute. The corrosion agent was a 3% NaCl solution, and paralle's tests with air were made. V. V. Marugin (Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota) (Central Scientific Research Institute of the Merchant Marine and Ye. A. Suvorova (zavod "Elektro-..., Lacktrobard works) took part in the experiments. The fatigue curves obtained show that the corrosion-fatigue resistance greatly depends on the number of load cycles. The test results obtained show, among other things, that the relationship between the corrosion-fatigue resistance in bending and torsion remains the same for corrosion-resistant materials. Ther are 4 figures and 8 references, 6 of which are Soviet.

ASSOCIATION: Card 2/2

Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota (Central Scientific Research Institute of the Merchant Marine)

28(5) SOV/32-25-4-31/71 AUTHORS:

Glikman, L. A., Kostrov, Ye. N., Dobrer, V. K.

TITLE: Tests for Corrosion Fatigue in Bending and Torsion (Ob ispytani-

yakh na korrozionnuya ustalost! pri izgibe i pri kruchenii)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 456-460 (USSR)

ABSTRACT: The tests were carried out in common with the metal laboratory of the "Elektrosila" Works. The problem of relationship between

the fatigue limits in torsion and bending under the simultaneous effect of corrosion has not been much investigated up to date, and the results (Refs 3,4) are contradictory. For this reason, special investigations of steel 35 (0.35% C, 0.32% Si, 0.77% Mn,

0.027% S and 0.022% P) were carried out in this case. The samples were made of a long bar (diameter 25 mm); they were submitted to normalizing at 850.870° and had the following characteristics: σ_s = 33.1 kg/mm², σ_B = 62.1 kg/mm²,

 δ_5 = 27.4% and ψ = 60.1%. The sketch of a sample is given

(Fig 1). The transverse-fatigue tests were carried out on machines of the type NU at a sample rotation speed of 3000 rpm. The torsion tests were made on an especially designed machine

Card 1/2 (according to V. K. Dobrer, Engineer) with a certain load

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300054-6

GLIMMAN, L.A.; MOSTROW, Ye.N.; SUPPUN, L.A.; YELIN, I.A.; SHCHERBAKOW, P.S.;
ZORACHEW, Yu.Ye.; DORRER, V.K.; STRUMPE, P.I., kand. tekhn.nauk, otv.
red.; ARAKELOV, V.M., nauchnyy red.; EAMA, N.G., red.; KOTLYAKOVA, O.I.,
tekhn.red.

[Organization and technology of ship repair; corrosion and
mechanical strength of metale] Organizatsia i tekhnologiia
sudoremonta; voprosy korrozionno-mekhanicheskoi prochnosti
metallov. Leningrad, Izd-vo Morskoi transport 1959, 76 p.
(Leningrad, tsentral'nyi nauchno-issledovatel'skii institut
morskogo flota. Trudy no.22)

(MHRA 12:5)

(Metals--Testing) (Corrosion and anticorrosives)

CIA-RDP86-00513R000825300054 GLIKMAN, L.A., doktor tekhn.nauk, prof.; KOSTROV, Ye, N., inch., aspirant Effect of the scale factor on the fatigue strength of steel. Trudy LIEI no.23:27-45 '58. (MIRA 12:5) 1. TSentral'nyy nauchno-issledovatel'skiy institut Morskogo flota (for Kostroy). (Steel -- Fatigue)

KOSTROV, YE.A.
GLIKMAN, L.A.; SUPRUN, L.A.; KOSTROV, Ye.N. Method for corresion fatigue testing of specimens 60mm in diameter. Zav. lab. 23 no.3:343-345 '57. (MI (Corrosion and anticorrosives) (Metals-Fatigue) (MLRA 10:6)

KOSTRAY,

112-6-11762 D

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr6, p. 1 (USSR)

AUTHOR:

Kostrov, V.N.

TITLE:

History of the Theory and Practice of Development and Coordination of Russian Engineering Terminology (Istoriya teorii i praktiki postroyeniya i uporyadocheniya russkoy tekhnicheskoy terminologii)

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Doctor of Technical Sciences, presented to the Institute of History of Natural Science and Engineering (In-t istorii yestestvoznaniya tekhniki), Academy of Sciences, USSR, Moscow, 1956.

ASSOCIATION: Institute of History of Natural Science and Engineering (In-t istorii yestestvoznaniya i tekhniki), Ac. of Sc., USSR

Card 1/1

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300054-6</u> KOSTROV, V.N., kandidat tekhnicheskikh nauk Standardization and regulation of terminology. Standartizatsiia no.2:11-14 Mr-Ap '55.
(Standardization--Terminology) (MLRA 8:6)

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									1:302	
	9.	Monthly	List of	Russian A	ccessions	, Library o	of Congress	\$, <u></u>	1142 1953, Ur	classifi
				4						. 9,

1. KOSTROV V.N. 2. USSR (600) h. Technology-terminology 7. Committee on Technical Terminology of the Academy of Sciences of the USSR. Izv. AN SSSR Ott, tekh.anuk no.12, 1952. o. Monthly List of Russian Accessions, Library of Congress, April 1953 uncl. DVORAK, Zdenek, inz., arch.; KOSTROV, Vl., inz., arch. Use of weldless steel tubes. Zel dop tech 11 no.4:116 '63. KOSTROW, V.I.; GORDEYEV, Ye.M., red.; SAGITOVA, S.G., tekhn. red. [Work practice of mixed brigades on the collective farms of the Tatar A.S.S.R.] Opyt raboty kompleksnykh brigad v kolkhozakh Tatarskoi ASSR. Kazan', Tatarskoe knizhnoe izd-vo, 1960. 55 p. (MIRA 14:9) (Tatar A.S.S.R.-Collective farms)

KOSTROV, V.I. Casting caps in combination molds. Mashinostroitel' no.11:17 N *60. (MIRA 13:10) (Molding (Founding))

BYALYY, L.A.; SHUR, A.B.; Prinimali techastiyes KOTOV, A.P.;
RUSAKOV, P.G.; YEGOROV, N.D.; KOSTROV, V.A.; RYNNOV, N.F. Investigating the time length for the flow of gases through powerful blast furnaces. Stal' 24 no.1:14-17 Ja 164c (MIRA 17:2) 1. Leningradskiy politekhnichaskiy institut i Cherepsvatskiy metallurgicheskiy zavod.

LEVIN, L.Ya.; VANCHIKOV, V.A.; SHUR, A.B.; KAYLOV, V.D.; BYALYY, L.A.; Prinimali uchastiye: RUSAKOV, P.G.; ANTONOV, V.M.; KOSTROV, V.A.; KOTOV, A.P.; YEGOROV, N.D.; BUGAYEV, K.M.; SOLODKOV, V.I.; YASHCHENKO, B.F. KOREGIN, A.V.; SAPOZHNIKOV, N.P.; TSUKANOV, V.N.; VITOVSKIY, V.M. Mastering the operation of high-capacity blast furnaces. Stal' 23 no.9:773-778 S '63. (MIRA 16:30)

Synthesis of Hydrocarbons. LXX. Synthesis of Litertiary SOV/79-29-8-32/81 Alkyl Methanes (C11-C17) With Three Quaternary Carbon Atoms

> previously employed primary or secondary alkyl-magnesium bromides) in the first part of the Grignard-Wuertz reaction. The alkenes (II) with two adjacent quaternary carbon atoms were formed; by hydrochlorination of these alkenes, the corresponding saturated tertiary chlorides (III) were obtained, from which the ditertiary alkyl methanes (IV) with considerably branched structure and with three quaternary carbon atoms were synthesized with iso. propylmagnesium bromide, in the presence of HgCl2, according to

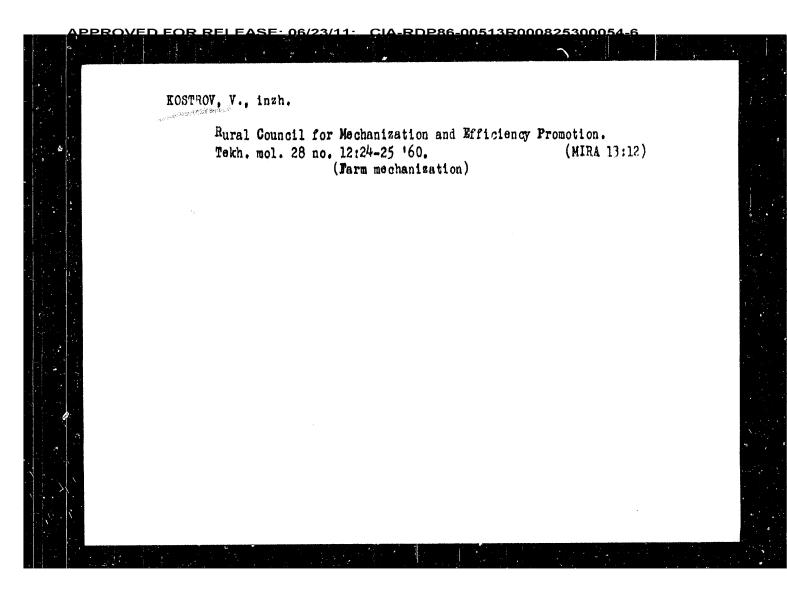
Grignard-Wuertz (Reaction Scheme). In this way, the former universal method of synthesizing the ditertiary alkyl-methanes with two quaternary carbon atoms was extended to the ditertiary alkyl methanes with three quaternary carbon atoms. In both tables, the constants of the resultant alkenes and alkanes with the corresponding general structure formulas are given. The authors expressed their gratitude to Ye. G. Treshchova for the optical investigations which were carried out in order to characterize the compounds synthesized. There are 2 tables and 8 Soviet references.

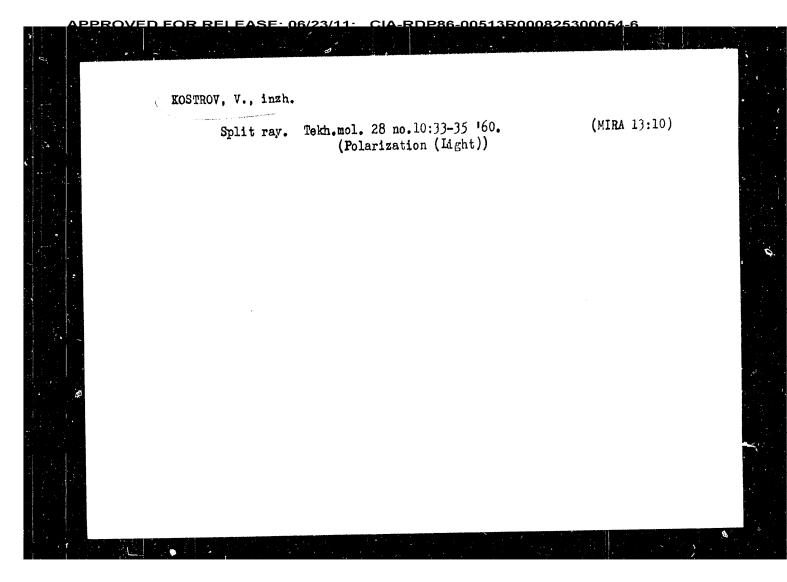
SUBMITTED: Card 2/2

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University) July 4, 1958

5(3) SOV/79-29-8-32/81 AUTHORS: Levina, R. Ya., Daukshas, V. K., Kostrov, V. A. Synthesis of Hydrocarbons. LXX. Synthesis of Ditertiary Alkyl TITLL: Methanes (C14-C17) With Three Quaternary Carbon Atoms PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2601 - 2604 (USSR) ABSTRACT: The authors recently described (Refs 1-3) the general method of synthesizing the paraffin hydrocarbons with two quaternary carbon atoms which are separated by a methylene group (of the ditertiary alkyl methanes): the tertiary allyl chlorides (I), the monohydrochlorides of 2,4-dimethyl pentadiene-1,3, $(R=CH_3)$ or of 3,5-dimethyl heptadiene-2,4 (R=C $_2\mathrm{H}_5$) were introduced into the reaction, i.e. into the first reaction of Grignard-Wurtz, with alkyl magnesium; the resultant alkenes were hydrochlorinated, and the tertiary saturated chlorides synthesized in this connection were converted with alkyl magnesium bromides in the presence of mercuric chloride (in the second Grignard-Wuertz reaction) into the ditertiary alkyl methanes. In the present paper Card 1/2 the tertiary alkyl-magnesium chlorides were used (instead of the

RDP86-00513R000825300054





Electricity generated in ...

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plifies the design of such generators. To obtain good results with the temperatures attainable so far, charged particles have to be injected into the hot plasma to increase its electric conductivity. In the development of magnetohydrodynamic generators, scientists endeavor to obtain a maximum difference in pressures to give the plasma current with the velocity of light. Aerodynamic supersonic tubes and rockets prove the possibility of a practical solution to this problem. The first three methods permit attaining a considerable increase of the maximum temperatures of motor cycles, and thus to increase their efficiency to 0.5-0.6, whereas the costs are reduced at the same time. The fourth method (2) is based on the utilization of electrochemical current sources obtained by fuel elements of comparatively high efficiency (approximately 75%). A further increase may be attained by the use of cheaper fuels, such as natural gas, gasoline vapor etc. instead of oxygen and hydrogen. There are 5 figures.

Card 2/2

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AUTHOR:

Kostrov, V., Engineer

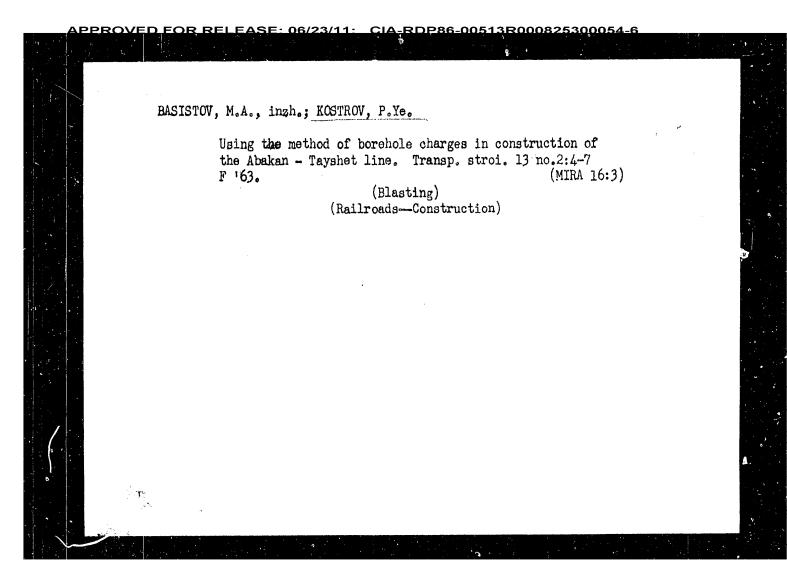
TITLE:

Electricity generated in the flame

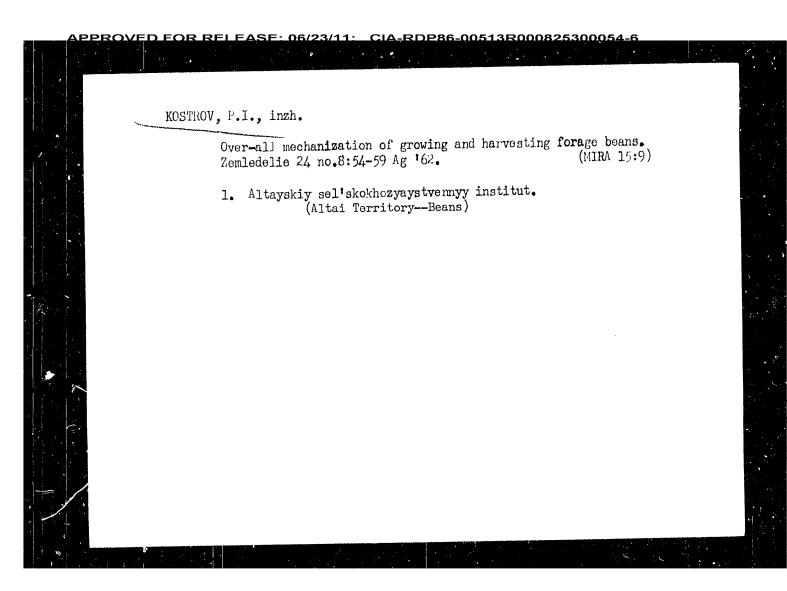
PERIODICAL: Tekhnika molodezhi, no. 1, 1961, 2-4

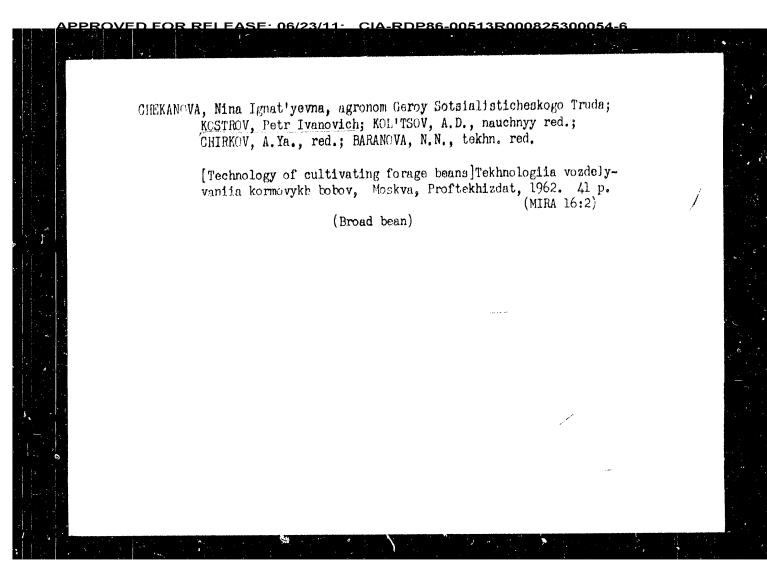
TEXT: The author reports on four different methods of generating electricity direct from thermal and chemical energies. Colored insert sheets show the schemes of these methods. The first method of transforming thermal energy into electricity is based upon the thermoelectric effect. The material best suited for generators based upon this principle, are semiconductors. The best scheme is probably a nuclear reactor, where the fuel itself shows thermoelectric properties. In the second method, hot substances are used which emit electrons from their surfaces. In this case, a thermionic reactor with the fuel serving as cathode, is suited best. The combination of thermionic generator and a normal motor, or a thermoelectric generator permits utilization of the high temperatures of the anode. Experiments showed that such a system of high efficiency and sufficient capacity could be developed. The replacement of metallic conductors by hot plasma sim-

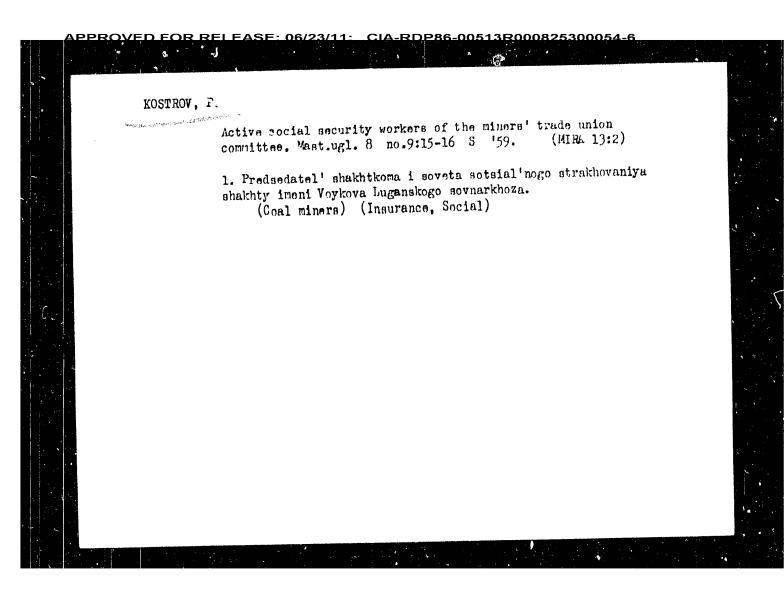
Card 1/2



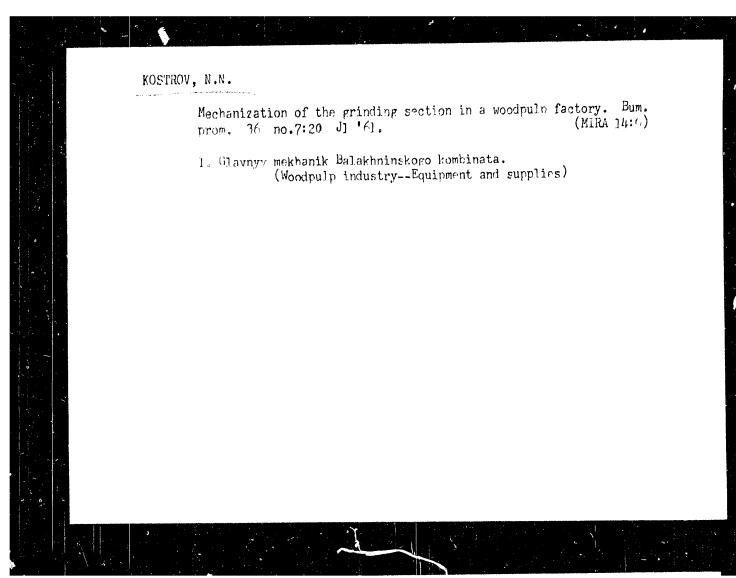
BASISTOV, M.A., inzh.; KOSTROV, P.Ye., inzh. Working weak rocky soil with rippers. Transp. stroi. 12 no.6:9-10 Je '62. (MIRA 15:6) (Excavating machinery)







CIA-RDP86-00513R000825300054-6 KOSTROV, N.Ye., inzhener. Improving the method of salting margarine. Masl.-zhir.prom. 17 no.12:25-26 D '52. (MIRA 10:9) 1. Vsesoyuznyy nauchno-issledovatel'skiy inzhener zhirov. (Oleomargarine)



Materials on craniometric studies on persons with chronic suppurative otitis. Zhur. ush., nos. i gor. bol. 24 no.1:82
Ja-F '64. (MIRA 18:3)

1. Iz kliniki bolezney ukha, gorla i nosa imeni V.I. Voyacheka (nachal'nik - zasluzhennyy deyatel' neuki prof. K.L. Khilov)

Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.

CIA-RDP86-00513R000825300054 KOSTROV, N.I. Case of foreign bodies in the ear. Vest.otorin. 20 no.2: (MIRA 12:11) 116-117 Mr-Ap '58. 1. Iz kliniki bolezney ukha, gorla i nosa imeni prof. V.I. Voyacheka Voyenno-meditsinskoy akademii im. S.H.Kirova. (MAR--FORMIGN BODIES) (PARAFFINS-THERAPEUTIC USE)

Registration of mystagmus with a mechanical cariograph. Vest. (MIRA 11:3) oto-rin. 20 no.1:105-106 Ja-F '58. 1. Iz otolaringologicheskoy kliniki imeni V.I.Voyacheka (nach.kafedryzasluzhennyy deyatel' nauki prof. K.L. Khilov). (EYE, physiol. movements, determ. with mechanical cardiograph (Rus)

KOSTROV, N. I. "Acute catarrhs of the upper respiratory tracts" - p. 30 Voyenno Meditsinskiy Zhurnal, No. 3, 1962

Leonid Ivanovich Sirotinskiy. On His 80-th Birthday

sov/105-59-6-22/28

Nauchno-tekhnicheskoye obshchestvo MEI (Scientific and Technical Society of the MEI). He is at present still a member of the Scientific Councils of the MEI and VEI, member of the Technical Council of the Ministerstvo stroitel stva elektrostantsly (Ministry for the Construction of Power Stations). His three-volume textbook "High-Voltage Engineering" is well known. At present he is engaged in re-editing this book. He has been awarded two Lenin Prizes, is a member of the Order of the Red Banner of Labor, of the order "Medal of Distinction" and of several medals. In 1942 the title of a Merited Scientist and Engineer of the RSFSR was conferred upon him, and in 1950 he was awarded the Stalin Prize for his work on valve arresters. There is 1 figure.

Card 3/3

Leonid Ivanovich Sirotinskiy, On His 80-th Birthday

SOV/105-59-6-22/28

at the MEI and established a laboratory with this whalr. In 1921 in collaboration with K. A. Krug he established the Gosudarstvennyy eksperimental nyy institut (State Experimental Institute), which later on was aransformed into the Vsesoyuznyy elektrotekhnicheskiy institut imeni lenina (All-Union Institute of Electrical Engineering imeni Lenin). Sirotinskiy was the forst head of the department of high voltages of the VEL. He still is in close contact with the VEL. He was a member of the Tsentralinyy elektrotekhnicheskiy sovet (Central Council for Electrical Engineering). In this function and as a consultant to the Glavevergo he collaborated in giving his expert opinion on the power stations on the Dnepr and the Swir', and on the electric grids in the Dombass. He participated in the discussion on the projects of the 400 km and. Him and of the d.c. line Stalingrad hydroelectric power station -Donbass. For many years he was the chairman of the committee for the elaboration of specifications for overvoltage protection. He was a member of the Presidium and deputy chair. man of the Eicktrotekhnicheskoye obshchestvo (Electrotechnical Society), chairman of the section for power stations at the MONITOE, and for many years he was chairman of the

Card 2/3

8(0) AUTHORS: SOV/105-59-6-22/23 Chilikin, M. G., Kostrov, M. F., Venikov, V. A., Biryukov, V. G.,

Glazunov, A. A., Butkevich, Yu. V., Razevig, D. V., and Others

TITLES

Leonid Ivanovich Sirotinskiy (Leonid Ivanovich Sirotinskiy)

On His 80-th Birthday (K 80-letiyu so daya rozhdeniya)

PERIODICAL:

Elektrichestvo, 1959, Nr 6, pp 91-92 (USSR)

ABSTRACT:

The scientist and pedagogist, Doctor of Technical Sciences
Leonid Ivanovich Sirotinskiy was born in April 1879. His career
in the field of science and teaching began, when in 1907 he
participated in the establishment of the first junior engineers
college in Russia (at present Moskovskiy energeticheskiy
tekhnikum, Moscow Polytechnic of Power Engineering), where
afterwards he worked for more than 25 years. In 1917 he began
to work at the Moskovskoye vyssheye tekhnicheskoye uchilishche
(Moscow Technical University) and later on in the Moskovskiy
energeticheskiy institut (Moscow Institute of Power Engineering).
He introduced courses on electrical illumination, electric
traction, overvoltages and overvoltage protection at the MVTU
and MEI. Later on he mainly worked in the field of high-voltage
engineering. He organized the chair of high-voltage engineering

Card 1/3

A High-Power High-Voltage Valve

105-58-5-1/28

"Izolyator" porcelain plant and by the Institute of the GIEKI. N. P. Stepanov, N. P. Savin, N. M. Maslennikov, 1. D. Shkolin, A. A. Pertsev, V. S. Grigor'yev, A. A. Timofeyev, R. 1. Grigor'yeva, V. V. Bazhenov, I. V. Blond, A. A. Ivanov, Te. P. Shmarina and others directly and actively participated in the work. There are 12 figures.

ASSOCIATION:

Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina (VEI) (All-Union Institute for Electrical Engineering imeni Lenin)

SUBMITTED:

November 5, 1957

AVAILABLE:

Library of Congress

1. Electron tubes--Development

2. Electron tubes--USSR

3. Electron tubes--Test results

4. Electron tubes--Applications

Card 5/5

5. Transmission lines--Equipment

A High-Power High-Voltage Valve

105-58-5-1/28

arc drops to 700 - 800 V. For the purpose of energy investigations a test stand for 120 MVA was built at the Moscow Institute for D. C. The results of the first test series showed that 900 A and a countervoltage jump of 50 kV no disturbances occurred at the valves. At 900 A and 90 kV countervoltage jump the valves do not lead to an extinction of the excitation are. For the transmission line from the Stalingrad hydroelectric plant to Donbass (the voltage between the poles amounts to 800 kV and the amperage in the line to 900 A) the VET proposed an eight-bridge-scheme. The voltage of each bridge amounts to 100 kV. The scheme was accepted by the expert commission. Here two values are connected in series into the bridge arm: maximum countervoltage 61 kV, countervoltage jump 34 kV, maximum amperage 900 A. - The work for the valve was performed at the Laboratory for High-Voltage Rectifiers at the VEI under participation of the Laboratory for Gas Discharge Devices, and of the Laboratory for Physical Investigations at the institute. The samples of the valves were produced by the electromechanical test plant of the VEI. The porcelain- and seramic products were produced by the

Card 4/5

A High-Power High-Voltage Valve

105-58-5-1/28

follows a description of such a valve of the type VR 9/3 for 900 A and 130 kV. In 1952 25 samples of different power and different types were produced. The electric strength of the malve is high. In static tests it stands 140 - 160 kV without an exterior divider. The investigations of the mercury vapor took place according to the probe methods, which had been elaborated in the Laboratory for gas discharge devices at the VEI. The electrical tests at full amperage and voltage were carried out with the equivalent scheme constructed in the VEI for maximally 1000 A and 160 kV, and valuable data were obtained. An extraordinary phenomenon was determined: At positive anode-voltage and normal operation of all excitation anodes and nets no lighting of the principal anode took place at high voltage. At low voltage this phenomenon was not observed. This fact is explained by the occurrence of negative potentials. In investigating the overload capacity it was found that also at 15 000 A within the range of working temperatures an interruption of the current does not occur, ruen the voltage in the

Card 3/5

A High-Power High-Voltage Valve

105-58-5-1/28

test works of the VEI during the second half of 1950 1950 - 1951 12 walves of the type VR 3 for a maximum of 300 A and 130 kV were produced in the VEI. Since 1952 works were started on a valve for a maximum of 900 a and 130 kV. These works are shortly described here. 1) The problem whether the valve is to be constructed as single-anode- or multi-anode valve, was solved in favor of the single-anode type. It was shown that the difficulties in connection with the discharge concentration on a small cross section can be overcome, 2) The number of the insets was selected in a way that the advantages are relatively great and the disadvantages are as small as possible. The tests were carried out with 15 (valve by Kesayev), 5, 4, 3, 2 and 1 insets (construction by Andreyev). 3) The problem of size and density of these insets is finally to be cleared in the plant. 4) The materials were investigated, 1951 - 1952 a special vacuum--technological equipment was put into operation, solitary test stands were established (up to 1000 A and 160 kV, pulse circuit up to 350 kV). The construction of the valve essentially differs from those used in industry. Then

Card 2/5

Kostrov, M.F.

AUTHORS:

Butayev, F. I., Candidate of Technical 105-58-5-1/28 Sciences, Klimov, N. S., Candidate of Technical Sciences,

Kostrov, M. F., Candidate of Technical Sciences, Sakovich, A. A., Candidate of Technical Sciences

TITLE:

A High-Power High-Voltage Value (Meshchnyy vysokovol tnyy

ventil!)

PERIODICAL:

Elektrichestvo, 1958, Nr 5, pp. 1-7 (USSR)

ABSTRACT:

At first a survey of the development of the high-voltage valves abroad and at home is given in the USSR such works were carried out in the laboratories of the VEI

(A. N. Larionov, S. V. Krauz 1937, N. S. Klimov 1938 - 1939, M. I. Gal'din 1940). After the war high-voltage valves

and control boxes for the first test-à...o. trunk line

from the hydroelectric plant Kashira to Moscow were elaborated

These works were mainly performed in the Scientific

Engineering Office of the former Ministry for Electrical Industry under participation of important German specialists,

as G. Dobke, R. Kneliters, and others 30 valves of the type VR I were produced by this office and partly by the

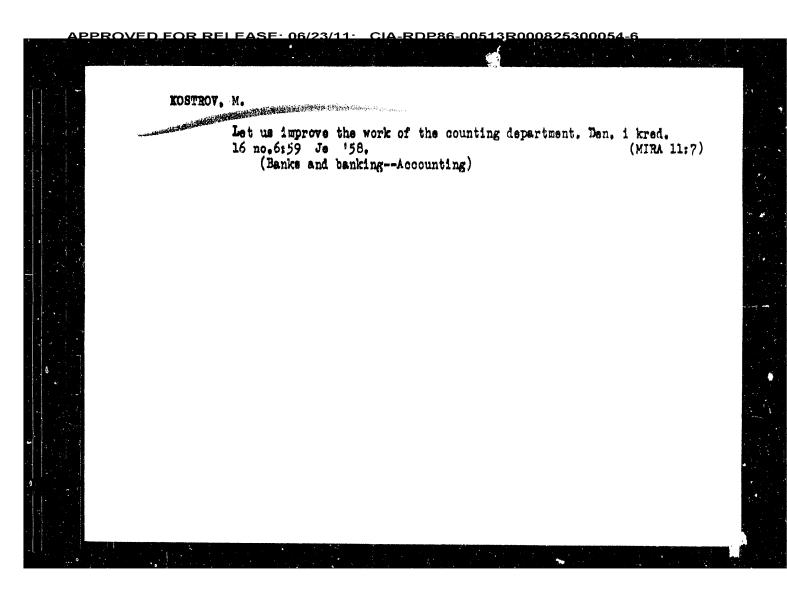
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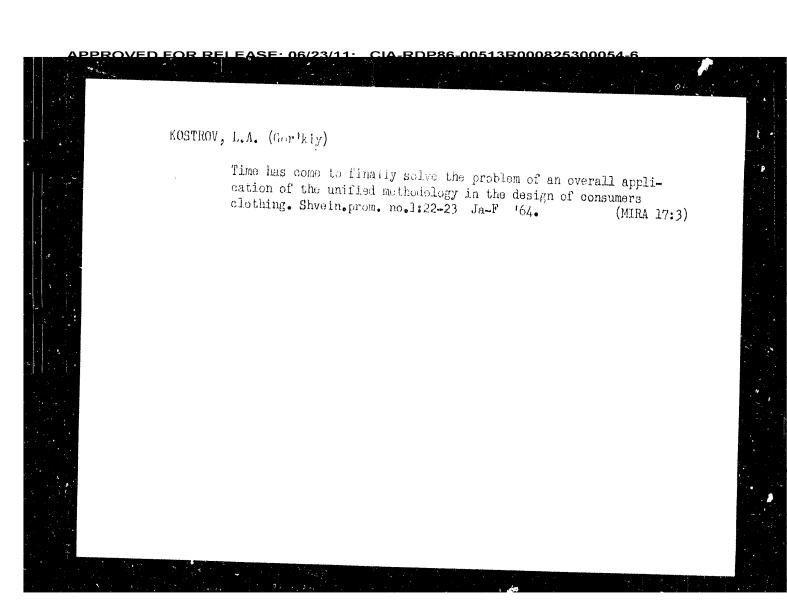
KOSTROV, H. F. CHILIKIN, M.G.; KOSTROV, M.F.; GLAZUNOV, A.A.; MESHKOV, V.V.; SO-LOV'YEV, I.I.; VENIKOV, V.A. L.I. Sirotinskii, honored worker in science and engineering. Elektrichestvo no.6:91 Je 154. (MIRA 7:7) (Sirotinskii, Leonid Ivanovich, 1879KOSTROV, M.F.; EIRYUKOV, V.G.; SIROTINSKIY, L.I.; KISLOV, A.N.; KOZHUKHOV, V.K.; AKOPYAN, A.A.; MEL'KUMOV, A.M.; LARIONOV, V.P. Professor G.V.Butkevich. Fiftieth anniversary of his birth. Elektrichestvo no.10:92 0 153. (MURA 6:10) (Butkevich, Georgii Vladimirovich, 1903-)

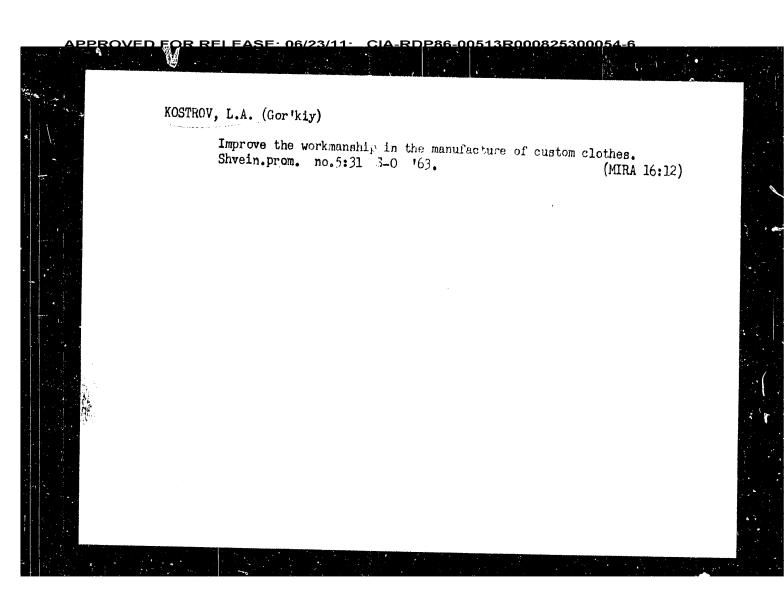
Mostrov, M.F.

Description	Roy 1947	Roy 1947
Roy 1947	Roy 1947	
Roy 1947	Roy 1947	
Miscriptication	Rectrotechnical Institute on the Rye of the Thirtieth Ampiversary of the Great October Socialist Revolution, M. F. Restor, Candidate in Technical Sciences, All-Union Rectrotechnical Institute insent	
V. I. Leain, 6 pp		
"Yest Mistro-Promysh" Ro 11		
Rhort historical description of the development of the All-Union Rectrotechnical Institute, and particularly the achievements of GEMI-VEM (State Experimental Rectrotechnical Institute and All-Union Recorrectabilish Institute and All-Union Recorrectabilish Institute	with respect to the COMMIT plan, which appears to be a plan for the electrification of the Union.	

KOSTRÓV, M. F. Kostrov, M. F. Principles of relay protection Moskva, Gos. energ. izd-vo, 1944. 435 p. (50-44156) TK2861.K6







CIA-RDP86-00513R000825300054-GARAS'KO, B.M., insh.; KOSTROV, L.A., Jush. K-2,5-2 pneumatic-tire hydraudic orans. Stroi. i der. mach. 9 no.1:9-11 Ja '64. (MIRA 18: (MIRA 18:7)