SOV/120-58-2-18/57

AUTHORS: Akishin, P. A., Vinogradov, M. I., Danilov, K. D., Levkir, N. P., Martinson, Ye. N., Rambidi, N. G. and Spiridonov, V. P.

TITLE: An Electronograph for Studying the Structure of Molecules of Non-Volatile Compounds (Elektronograf dlya issledovaniya stroyeniya molekul trudnoletuchikh soyedineniy)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 2, pp 70-74 (USSR)

ABSTRACT: One of the most widely used and effective methods of studying the geometrical structure of complex molecules is the electronographic method. The method is based on the study of the diffraction of fast electrons by the vapour of the substance under investigation. In the literature there is very little information on the geometry of the molecules of non-volatile compounds. This is due to experimental difficulties associated with such studies. Maxwell and his collaborators have described an electronograph with a high temperature evaporator which was used to study the structure of molecules of substances whose boiling points were 1200-1400°C. The present paper describes an electronograph which

Card 1/3

SOV/120-58-2-18/37

An Electronograph for Studying the Structure of Molecules of Non-Volatile Compounds.

was constructed in 1954 and can be used for substances with boiling points up to 2500°C. The instrument consists of an evaporator in which the substance under investigation is evapourised by electron bombardment, an electron gun and a vapourised by electron bombardment, an electron gun and a recibed of preventing the radiation from the evaporator from cribed of preventing the radiation from the evaporator from the diffraction pattern produced by vapours at high temperatures. The most effective way of screening the emulsion was tures. The most effective way of screening the emulsion was by covering it with a thin layer of black ink which can be by covering it with a thin layer of black ink which can be in the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configin the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determine the configing the present paper has been used to determin

Card 2/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710(

An Electronograph for Studying the Structure of Molecules of Non-Volatile Compounds.

are English and 9 are Soviet.

ASSOCIATION: Khimicheskiy fakul'tet MGU (Department of Chemistry of the Moscow State University)

SUBMITTED: July 11, 1957.

Card 3/3

- 1. Complex compounds 2. Molecules—Structural analysis
- 3. Electronic equipment--Applications

SOV/48-23-4-21/21 Levkin, N. P., Kushnir, Yu. M. A New Model of a Universal Electronograph With 400 kv With an AUTHORS: Armored Supply (EG-100A) (Novaya model' universal' nogo elektronografa na 100 kF s bronirovannym vvodom (EG-100A)) TITLE: Izvestiya Akademii rauk SSSR. Seriya fizioneskaya, 1959, Vol 23, Nr 4, pp 531 - 536 (USSR) PERIODICAL: The instrument is destined for the investigation of solid and gaseous substances by means of electron diffraction. First, the parameters of the instrument are given and the formula for the ABSTRACT: ecomputation of the resolution is written down. As an example, figure 1 shows a microphotogram taken with this instrument. The chief parts of the latter are the electron gun with 100 ky accelerating voltage and armored supply as well as the two magnetic lenses. Figures 2 and 3 depict and describe the construction, as well as the adjustment of the individual parts. A large object chamber having a length of 400 mm and one 200 mm long make it possible to place the object at distances of 350 mm or 400 mm, respectively, from the image screen. A mechanism allows the object to be shifted in a vertical plane to the optical axis. The camera and the vacuum system are accurately described. Card 1/2

A New Model of a Universal Electronograph With 100 kv SOV/42-23-4-21/21 With an Armored Supply (EG-100A)

Among the electrical facilities special mention is made of the oxide cathode and the coreless transformer, the latter because of its little disturbing magnetic field. The high voltage exhibits the steps of 40, 60, 80 and 100 kv and its fluctuation amounts to 0.00%-0.00%. The stabilization of the high voltage and of the lens current is illustrated in short and the compensation of the electron background appearing on the image screen during the investigation is described. A few structural details are discussed and relative pictures are shown. The conclusion of the paper is devoted to the investigation of the gas molecules and volatile substances. There are 7 figures and 2 Soviet references.

Card 2/2 USCOMM-DC-61,352

LEVKIN, N.P.; ALEKSETEV, N.V.

Use of the EG-POA electron diffraction apparatus for studying the structure of molecules. Zhuristrukt.khim. 4 no.3:327-330 My-Je '63. (MIRA 16:6)

1. Institut elemento-organicheskikh soyedineniy AN SSSR. (Electron diffraction apparatus) (Chemical structure)

KUSHNIR, Yu.M.; KABANCV, A.N.; LEVKIN, N.P.; CHERNOVA-STOLYAROVA, Ye.Ye.

Electron spectrograph for the EG-100A electron diffraction camera.

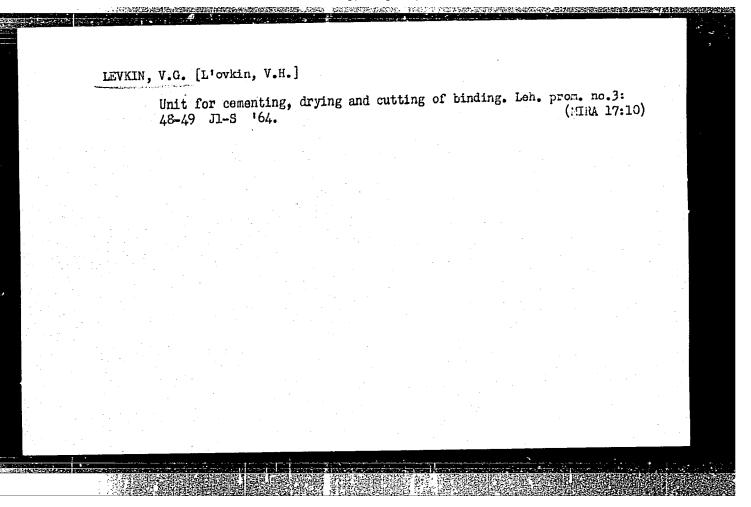
Iav. AN SSSR. Ser. fiz. 27 no.9:1196-1198 S '63. (MIRA 16:9)

(Electron diffraction apparatus) (Electrons—Spectra)

GAYENKO, A., inzhener-podpolkovnik; LEVKIN, V., Mayor; K.IVANOV, M., inzhener-mayor

Greater attention to practice. Tekh. i vooruzh. no.2:40-43
F '64.

(MIRA 17:9)



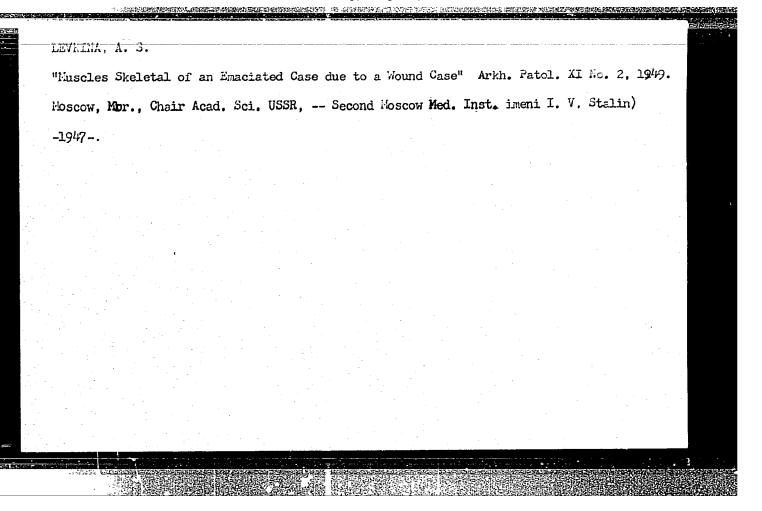
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ACC NR: AP5028110 JDVGE SOURCE CODE: UR/0048/65/029/011/2017/2019	c)
AUTHOR: Guyenok, Ye.P.; Kudzin A.Yu. 1 January 55 14	
OM: Dnepropetrovsk State University (Dnepropetrovskiy good	
TITLE: Peculiarieties of polarization of hand 5-44	
ritle: Peculiarieties of polarization of barium titanate single crystals having to Rostov-on-the Don 12-16 Sepgember 19647	
CURCE. AV gran	
OUNCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2017-2019	
OPIC TAGS: ferroelectric crystal stade	
OPIC TAGS: ferroelectric crystal, single crystal, dielectric constant, electric constant, electric cop	
polarization, hysteresis	
BSTRACT: Polarization and domain structure have been investigated in BaTiO <sub>3</sub> single	
rystals doped with 0.35 mole % of Ta <sub>2</sub> 0 <sub>5</sub> and grown from solution in a KF melt. Such	
rystals are known to exhibit double hysteresis loops. At room temperature the in-	
heating and the persisted to a temperature lower than that above the Curie	_
heating, and the characteristic fine e-domain structure was recovered only after crystals had been held at room temperature for several hours. The dielectric con-	
Black with the dielectric con-	
ord 1/2	
	<b>6</b> 2/
Card 2/2	
The same of the sa	و

LEVKINA, A. S.

"The So-called Pseudocarcinomatosic Lymphangitis of the Lung", Arkh. Patol., 10,

No. 1, 1948.

Mbr., Chair Pathological Anatomy, 2nd Poscow Ped. Inst. Im. Stalin, -1947-.



### LEVKINA. A.S.

Changes in the skeletal muscles in chronic exhaustive diseases. Arkh. pat., Moskva 14 no.4:67-70 July-Aug 1952. (CLML 23:2)

1. Of the Department of Pathological Anatomy (Head -- I. V. Davydovskiy, Active Member AMS USSR), Second Moscow State Medical Institute imeni I. V. Stalin.

PIMENOVA, Ye.M.; LEVKINA, A.S.

Traumatic rupture of renal hypernephroma. Khirurgiia no.9:64 S '53. (MLRA 6:11)

1. Iz fakul'tetekoy khirurgicheskoy kliniki sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta na baze Klinicheskoy bol'nitsy Zhdanovskogo rayona. (Kidneys--Tumors)

LEVKINA, A.S. (Moscow); DAVYDOVSKIY, I.V., deystvitel nyy chlen Akademii meditsin-

Problem of pathology of the vascular system in man. Arkh.pat. 15 no.4:52-56 (MLRA 6:11)

1. Kafedra patologicheskoy anatomii 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta im. I.V.Stalina. 2. Akademiya meditsinskikh nauk SSSR (for Davydovskiy). (Blood vessels--Diseases)

## LEVKINA, A.S.

Vascular changes in the vermiform appendix of the periarteritie nodosa type. Arkh.pat. 18 no.7:76-84 156. (MIRA 10:1)

1. Is kafedry patologicheskoy anatomii (sav. - deystvitel'nyy chlen AMN SSSR prof. I.V.Davydovskiy) II Moskovskogo gosudarstvennoto meditsinskogo instituta imeni Stalina.

(APPENDICITIS, pathology, periarteritis nodosa-like vasc. changes in excised specimens (Rus))

(PERIARTERITIS NODOSA.

wasc. changes simulating periarteritis nodosa in specimens excised in appendicitis (Rus))

TKACHEV, V.V., inzh.; SHOLENINOV, V.M., inzh.; Prinizali uchastiye:

KONSTANTINOV, V.G.; LEVIN, L.Ya.; GRIGORIYEVYKH, G.F.;

ZAKHAROV, V.N.; ZHDANOV, L.A.; PUZANOV, N.A.; SUKHANOV, V.I.;

VASILIYEV, A.N.; ZHELEZHAYA, P.T.; TUGARINOVA, Ye.A.; LEVKIN,

A.S.; MOKIYEVSKIY, N.M.; SHAKHALOV, V.; SMIRNOV, A.I.

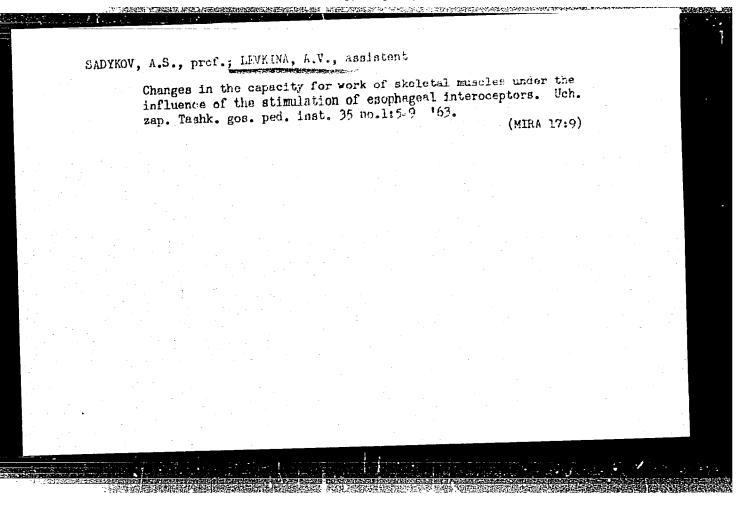
Developing the technology of producing a high-basicity

open-hearth sinter. Stal' 25 no.8:683-686 Ag '65.

(MIRA 18:8)

1. Cherepovetskiy metallurgicheskiy zavod (for Tkachev,

Sholeminov).



Perforated ulcer of the duodemum in a 3-year-old girl. Sov.med.
21 no.11:31-32 B '57. (MIRA 11:3)

1. Iz kafedry obshchey khirurgii (zav.-doktor med.nauk V.V.Ponov)
Chitinskogo meditsinskogo instituta (dir.-dotsent Tu.D.Ryshkov)
i khirurgicheskoy bol'nitay Zabaykal'skoy zheleznoy dorogi (nach.
L.F. Zarembol.

(PEPPIC ULCER, in inf. and child
perf., duodenal in 3-year-old girl)

SEALENGER BERKER BERKER BERKER BERKER BERKER B. DER BERKER BERKER

LEVKINA, L., mladshiy nauchnyy sotrudnik

Effective mixture. Zashch. rast. ot vred. i bol. 10

no.8:50-51 '65.

1. Moskovskiy gosudarstvennyy universitet.

Levrina, C.H. AUTHORS: Gorlenko, M. V., Chinnov, Ye. A., Levkina, L. M., TITLE: A Biochemical Method for Determining the Parasitism in Fungi From the Genera Alternaria and Cladosporium. (Biokhimicheskiy metod opredeleniya parazitizma u gribov iz rodov Alternaria i Cladospor-PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 3, pp. 514-516 (USSR) ABSTRACT: Investigation results concerning the capacity of the genera of these fungi to accumulate amido nitrogen in the culture-medium at the expense of the pepton contained therein, are given in this report. The parasitism of these two fungi is different. Concerning the Fusarium species, and inverse dependence between the quantity of the said nitrogen, and theparasitic acitivity of the species of the fungus was stated in previous elaborate stules. In this way the grade of parasitism of these two species of fungi could be expressed in the laboratory according to the character of their nitrogoen- alimentation. Now the same operations were carried out with the genera of fungi referred to in the title. Amongst 5 species Alternaria (table 1) parasitic species accumulate up to 6 mg amido nitrogen in the culture-medium, facultative parasites compile up to 12, whereas the saprophytic species accumulate still more of it. A more intensive exploitation of the nitrogen by the Card 1/3 parasites is apparently connect d with the better accommodation of

A Biochemical Method for Determining the Parasitism in Fungi From the 20-3-45,46 Genera Alternaria and Cladosporium.

their fermentation apparatus to the utilization of amino acid. The study of the forms of Alternaria tenius Nees, isolated from various substrates, has shown that this species is physiologically nonhomogeneous. The froms from germinating seeds approach more the parasites, whereas the forms from inactive "substrate" completely disclose their saprophytic nature. Therefore Alt. venuis is a collective species. The evolution of thephysiological properties is ahead of of themorphological evolution, the latter of which is more conservative with fungi. Analogous data on 5 Cladosporium species are shown in table 2. In this case too, the difference in the accumulation of nitrogen between the parasites and saprophytes is remarkable. The facultative parasites used in this test were artificially cultivated long before and are supposed to have partly lost their parasitical properties. The results are therefore less clear. The physiological characteristic feature of the parasitism of this group of fundi partly agrees with the characteristic of Krangauz (reference 2) with respect to morphological symptoms. Based upon the differentation of parasitism, achieved by the above method, a more general significance of this phenomenon can be accepted and applied for the same purpose in the case of other groups of fundi. However, specific classifications of values had to be stipulated for the species of each genus. There are

Card. 2/3

A Biochemical Method for Determining the Parasitism in Fungi 20-3-45/46 From the Genera Alternaria and Cladosporium.

2 tables and 4 references, all of which are Slavic.

ASSOCIATION: Moscow State University im. M. V. Lomonosov (Moskovskiy

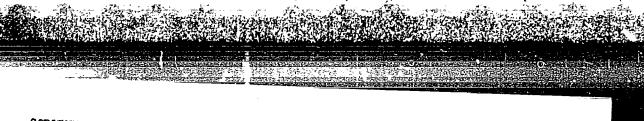
gosudarstvennyy universitet im. M. V. Lomonosova)

PRESENTED: June 28, 1957, by A. L. Kursanov, Academician

SUBMITTED: June 27, 1957

AVAILABLE: Library of Congress.

Card 3/3



GORIENKO, M.V.; LEVKINA, L.M.; USPENSKAYA, G.D.; CHINNOV, Ye.A.

Investigation of the physiology and biochemistry of some parasitic fungi; evolution of the parasitism of fungi. Vest. Mosk. un. Ser. 6: Biol., pochv. 17 no.3:49-55 My-Je 162.

1. Kafedra nizshikh rasteniy Moskovskogo universiteta.
(FUNGI, PHYTOPATHOGENIC)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R00092

BARANOV, V.I.; PAVLOTSKAYA, F.I.; FEDOSEYEV, G.A.; TYURYUKANOVA, Y.B.;

RODIONOVA, L.M.; BABICHEVA, Ye.V.; ZATSEPINA, L.N.; VOST NOW Prinimali uchastiye: YEMEL'YANOV, V.V.; BELYAYEVA, L.I.; XVLUE, F.I.;

MOLCHANOVA, I.V.

Distribution of Sr<sup>90</sup> on the surface horizon of soils of the Soviet Union during 1959-1960. Atom. energ. 18 no.3:246-250 Mr '65. (MIRA 18:3)

Pc-4/Pr-4 =ASD(p)-3/ASD(m)-3/RAEM(1) L 8728-65 EWT(m)/EPF(c)/EWP(j)/T DJ/RH 8/0065/64/000/009/0053/0056 ACCESSION NR: AP4045006 AUTHOR: Kobzova, R. I.; Tubyanskaya, G. S.; Operina, Ye. H.; Levkina, N. K. B TITLE: Stabilization of polysilexanes by antiexidant additives SOURCE: Khimiya i tekhnologiya topliv i masel, no. 9, 1964, 53-56 TOPIC TAGS: polydimethylsiloxane, polydimethylsiloxane grease, antioxident, entioxident additive, additive affectiveness ABSTRACT: The possibility of prolonging the life and raising the upper temperature limit for the use of polydimethylsiloxane oils and greases based on them, by means of antioxidant additives, has been studied. The relative effectiveness of additives was evaluated from the gelation time of the oils. The experiments, which consisted in determining the weight loss and viscosity of the oils, were conducted with PMS-100 and PMS-400 silicone oils and with such entioxidants as phenyl-l-naphthylamine phenothiazine, 1,4-dimesidinoanthraquinone, Ionol, bisphenol, pyrene, fluoranthrene, coronene, and dilauryl selenide. The most effective antioxidant additive was found to be Card 1/2

L 8728-65 ACCESSION NR: AP4045006 1,4-dimesidinoanthraquinone, 0.5% of which increased the thermal-oxidative stability\of PMS-100 at 300C by 1600% and at 250C by 4400%. It was also shown that the combination of two or more antioxidant additives can increase their mutual effectiveness, that the effectiveness of certain additives passes through a maximum with an increase in their concentration, and that the use of additives in amounts over 3% is not expedient. The poor solubility of additives in polydimethylsiloxane oils does not hinder the use of additives in greases, since the thickeners prevent their sedimentation and since, in service at nigher temperatures, the additive dissolves in the liquid phase of the grease. Orig. art. has: 2 figures and 2 tables. ASSOCIATION: VNIINP SUBMITTED: 00 ATD PRESS: 3111 ENCL: NO REF SOV: OTHER: SUB CODZ:

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L 2271-66 EWT(m)/EPF(c)/EWP(j)/T RM/I J
ACCESSION NR: AP5022227 UR 0191/65/000/009/0035/0037
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AUTHOR: Kobzova, R. I.; Levkina, N. K.; Kudryavtsev, A. S.; Savich, I. A.;
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TITLE: Effect of some complex compounds on the stability of polydimethylsiloxanes to thermal oxidation
SOURCE: Plasticheskiye massy, no. 9, 1965, 35-37
TOPIC TAGS: polydimethylsiloxane, silicone lubricant, antioxidant additive,
chelate compound, Schiff base
ABSTRACT: The effect of certain complex compounds of copper, cobalt, nickel,
lead, and iron with various Schiff bases on the stability of liquid polydimethyl- siloxane polymer PMS-100 to thermal oxidation was investigated. All the compounds
studied increased the stability of polydimethylsiloxane, the most effective being
N,N'-bis(2-hydroxy-1-naphthylidene)-1,2-diaminoethane, which increased the
stability by a factor of 9. The effectiveness of the complex compounds depends to a considerable extent on the nature of the metal and choice of the addend.
The effect of metal is displayed most clearly in the case of N-(2-hydroxybenzyli-
dene)-2-aminophenol, which forms a very effective stabilizing compound with

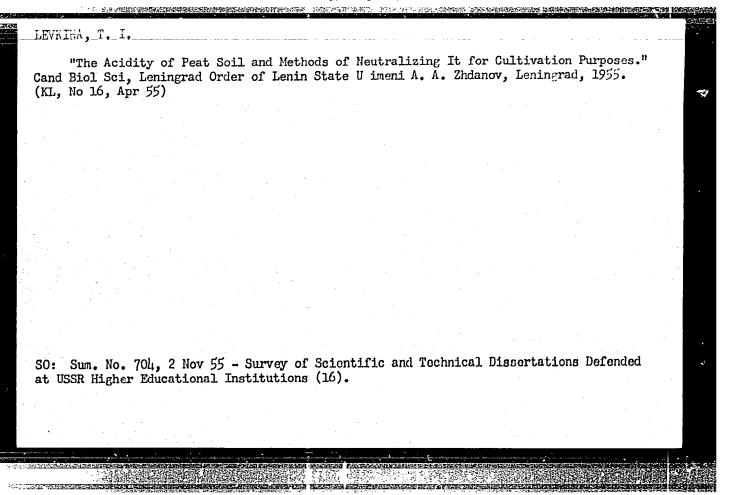
L 2271-66 ACCESSION NR: AP5022227 copper only; the effect of containing nickel. It is	the addend is most concluded that the	pronounced in thuse of chelates a	e case of complexes s high-temperature
antioxidants for silicone 2 tables.	oils deserves furthe	er illinebrigaraom	
ASSOCIATION: none SUBMITTED: 00	ENCL: 00	, SUB CODE:	MT, GC
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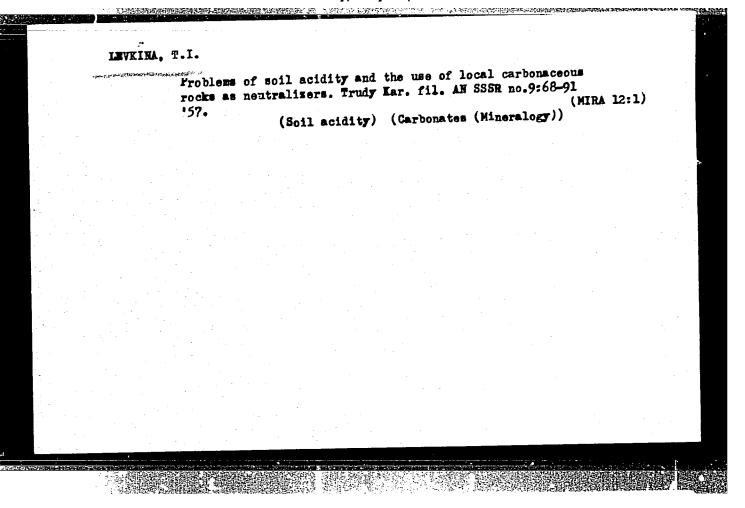
AUTHOR: Kobzova, R. I.; Tubyanskaya, G. S.; Oparina, Ye. M.; Levkina, N. K.  ORG: VNII NP  SURCE: Stabilization of polyethylsiloxane fluids by additives  SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1966, 52-54  TOPIC TAGS: silicone lubricant, thermal traitments stability, antioxidant additive  ABSTRACT: The effectiveneos of antioxidant additives such as phenyl-1-naphthylamine, lubricant 6 (TUYEU-118-55), has been studied for the purpose of prolonging service oxidative stability of lubricant specimens with or without additives was gelation 250C addition of 57 of this compound increases the thermal stability of the lubricant concentration (57 max) and drops with increasing temperature. In other tests it selicone fluids. For example, oxidation inhibitors of PES-100 polymethylsiloxane fluid such as cyclopentadiurylcarbonylmanganese, selenophene derivatives, or ferrocene  Cord 1/2  UDC: 665.521.5:547'28	ACC NR: AP6003434 (4)	and the second s
TITLE: Stabilization of polyethylsiloxane fluids by additives  SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1966, 52-54  TOPIC TAGS: silicone lubricant, thermal residence stability, antioxidant additive  ABSTRACT: The effectiveness of antioxidant additives such as phenyl-1-naphthylamine, lubricant 6 (TUYEU-118-55), has been studied for the purpose of prolonging service oxidative stability of lubricant specimens with or without additives was gelation 250C addition of 52 of this compound increases the thermal stability of the lubricant by a factor of 25. The effect' eness of the additives tested improves with increasing was found that the same additives do not produce the same effect in individual fluid such as cyclopentadiurylcarbonylmanganese, selenophene derivatives, or ferrocene	SOUDCE	/0754
SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1966, 52-54  TOPIC TAGS: silicone lubricant, thermal valuative stability, antioxidant additive  ABSTRACT: The effectiveness of antioxidant additives such as phenyl-1-naphthylamine, lubricant 6 (TUYeU-118-55), has been studied for the purpose of prolonging service oxidative stability of lubricant specimens with or without additives was gelation 250C addition of 5% of this compound increases the thermal stability of the lubricant concentration (5% max) and drops with increasing temperature. In other tests it silicone fluids. For example, oxidation inhibitors of PMS-100 polymethylsiloxane  Cord 1/2		
TOPIC TAGS: silicone lubricant, thermal valuative stability, antioxidant additive  ABSTRACT: The effectiveneos of antioxidant additives such as phenyl-1-naphthylamine, lubricant 6 (TUYEU-118-55), has been studied for the purpose of prolonging service oxidative stability of lubricant specimens with or without additives was gelation 250C addition of 5% of this compound increases the thermal stability of the lubricant by a factor of 25. The effect eness of the additives tested improves with increasing was found that the same additives do not produce the same effect in individual fluid such as cyclopentadiuryl carbonylmanganese, selenophene derivatives, or ferrocene	IIILE: Stabilization of polyethylsiloxand fluida to	B
lubricant 6 (TUYeU-118-55), has been studied for the purpose of prolonging service oxidative stability of lubricant specimens with or without additives was gelation time at 200 and 250C. The best results were attained with dilauryl selenide; at 250C addition of 5% of this compound increases the thermal stability of the lubricant concentration (5% max) and drops with increasing temperature. In other tests it fluid such as cyclopentadiurylcarbonylmanganese, selenophene derivatives, or ferrocene Card 1/2	TOPIC TAGS: silicone lubricant, thermal residents	
oxidative stability of lubricant specimens with or without additives was gelation time at 200 and 250C. The best results were attained with dilauryl selenide; at 250C addition of 5% of this compound increases the thermal stability of the lubricant concentration (5% max) and drops with increasing temperature. In other tests it silicone fluids. For example, oxidation inhibitors of PMS-100 polymethylsiloxane Card 1/2	lubricant 6 (mm. selenide as oxidation inhibited such as phenyl-1-naphthylas	
concentration (5% max) and drops with increasing temperature. In other tests it silicone fluids. For example, oxidation inhibitors of PMS-100 polymethylsiloxane fluid such as cyclopentadiurylcarbonylmanganese, selenophene derivatives, or ferrocene	oxidative stability of lubricant specimens with or without additives was gelation	ce al-
Card 1/2	was found that the same additives do not produce the state in other tests it	asing
	polymethylsiloxane selenophene derivatives or form	cene
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1 38217-66 EWT(m)/EWP(j)/T DJ/RM
ACC NR: AP6025463 SOURCE CODE: UR/0080/66/039/007/1638/1641
AUTHOR: Kobzova, R. I.; Oparina, Ye. M.; Levkina, N. K.; Magdesiyeva, N. N.;
Yur'yev, Yu. K.
ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy
universitet); VNII NP
TITLE: β-Diketones and azomethines of the selenophene series: oxidation inhibitors
for silicone fluids /
7 1638–1641
SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 7, 1638-1641
TOPIC TAGS: antioxidant additive, silicone lubricant, selenophene, selenium compoun
ABSTRACT: A study has shown β-diketone and azomethine derivatives of selenophene to be effective therma-oxidation inhibitors for silicone fluids used as lubricating
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interest because compounds containing a selection atom in a tang are
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ille sauddas kurud de barende fællige 1720. Desemblike belege i

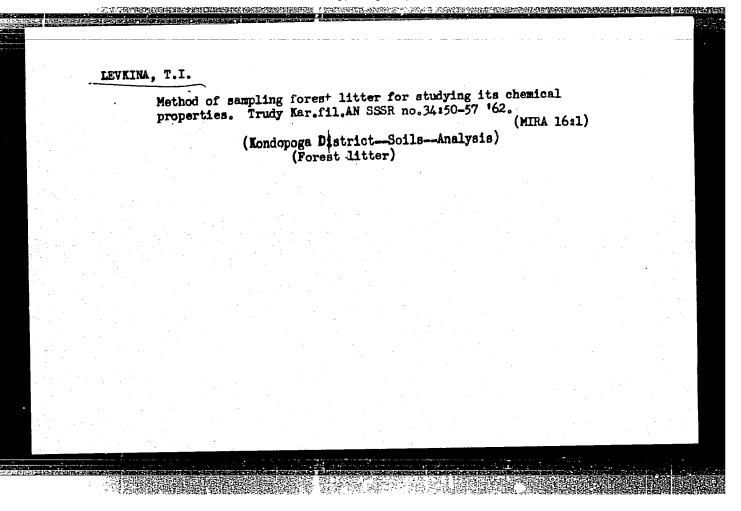




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#### LEYKINA, T.I.

Seasonal dynamics of chemical properties of the soil under spruce—whortlberry forests and motley-type birch groves in the "Kivach" Preserve. Trudy Kar.fil.AN SSSR no.34:23-49 '62. (MIRA 16:1) (Kondopoga District—Forest soils)



LEVKINA, T.I.; PEREVOZCHIKOVA, Ye.M.

Copper, molybdenum, zinc, manganese, and cobalt content of some soil types in Prionezhskiy and Olonets Districts of the Karelian A.S.S.R. Uch. zap. Petrozav. gos. un. 12 no.3: 111-120 '64. (MIRA 19:1)

1. Kafedra neorganicheskoy khimii Petrozavodskogo gosudarstvennogo universiteta imeni 0.V. Kuusinena.

# KRINCHIK, Ye.P.; LEVKO, A.N. Device for the automatic tape recording of the binary sequence of auditory stimuli. Vop. psikhol. 1l no.2:155-157 Mr-Ap '65. (MIRA 18:6) 1. Otdeleniye psikhologii Moskovskogo gosudarstvennogo universiteta.

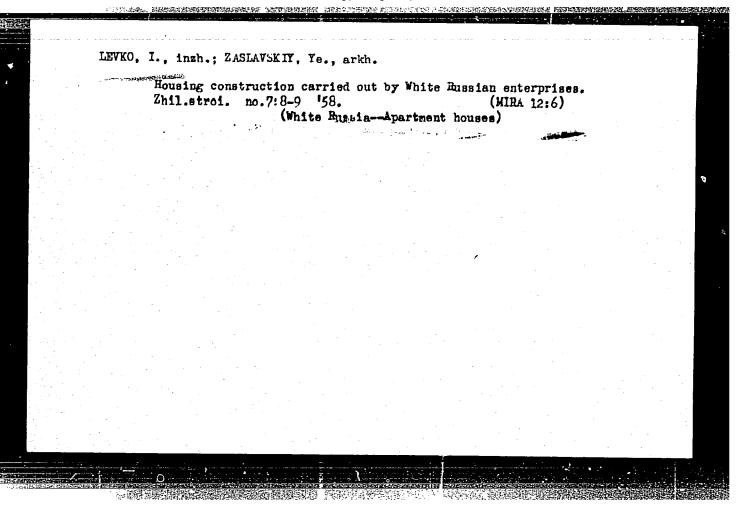
AKSYUK, A.F., kand.med.nauk; POLTORAK, S.A., inzh.; LEVKO, A.P., tekhnik

Electronic device for the determination of the rate of reflex reactions simultaneously in several subjects. Gig.i san. 26 no.12:47-50 D '61. (MIRA 15:9)

CONTRACTOR OF THE PROPERTY OF

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny imeni F.F.Erismana.

(REFLEXES) (PHYSIOLOGICAL APPARATUS)



### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929710

EVKCPULO, A.K.

High capacity thermal power station in the Kustanay industrial district. Teploenergetika 4 no.8:83-86 Ag '57. (MIRA 10:9)

1. Glavnyy inshener proyekta Gosudarstvennoy rayonnoy elektrostantsii Kustanayskogo industrial 'logo usla. (Kustanay Province--Electric power plants)

AUTHOR:

Levkopola, A.Kh., Engineer.

SOV/96-58-7-12/22

TITLE:

A super-high-output thermal electric power station. (Sverkhmosh-hnaya

teplovaya elektrostantsiya)

PERIODICAL:

Teploenergetika, 1958,

No.7, pp. 48-55 (USSR)

ABSTRACT 8

The Moscow division of the trust Teploelektroproyekt was set the task of designing a regional power station of 2400 MW to cover the base load of an entire region. The reasons why it should be possible to make 600-MW sets in the near future are first briefly explained. The limiting power of the station was determined by the available water supply. The station will be a purely condensing one, supplying only electrical loads. Steam will be tapped only for fuel drying and for heat supply to the local housing. The electrical output will all be delivered at voltages of 220, 400 and 500 kV. The station will operate on brown coal with a calorific value of 3000 kcal/kg having 30% moisture-and 16% ash-content. This article is restricted to a description of the most important solutions adopted and to a brief description of the actual station without going into all the detail. The use of critical and super-critical steam conditions depends on the availability of special steels. A 300-MW turbine for steam conditions of 300 atm and 650/565/565°C is now in the design stage. The use of such steam conditions would result in an economy of about 9%. For purposes of the design, economic and technical comparisons

Card 1/5

A super-high-output thermal electric power station.

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SOV/96-58-7-12/22

were made between sets with steam conditions at the turbine of either 300 atm 650°C, with two gas reheats to 565°C at pressures of 65/60 atm and 15/13 atm, or, alternatively, 220 atm 580°C with one reheat to 565°C at 43/29 atm using perlitic steel. In preliminary calculations on an SKK-300 turbine the Khar'kov Turbo-Generator Works took the blade length of the last stage of the condensing turbine as 1390 mm at 1500 r.p.m. This and other draft designs have shown that a 600-MW turbine can be made with the same outlet velocity losses for steam conditions of 300 atm, 650/565/565°C and for 220 atm 580/565°C. The SKK-600 turbine would have somewhat smaller last stages than the SVK-600. The steam conditions governed the choice of boilers with forced circulation. It was considered possible to make boilers of 1700-1900 tons/hr output; the problem, difficult in any case, was rendered more so by the poor quality of the fuel. The best type of boiler was considered to be that of the All-Union Thermotechnical Institute with high ash-removal, consisting of a vertical cylindrical pre-furnace, with combustion and cooling chambers designed for pulverised fuel. Because of the high pressures involved, steam drive was best for the feed-pumps, the power of which would range from 23.54 MW for turbine SKK-800 to 9.54 MW for turbine SVK-300. Steam drive with variable-speed turbines was considered more reliable than electric drive with hydraulic couplings. Eight variants of

Card 2/5

A super-high-output thermal electric power station.

SOV/96-58-7-12/22

feed-pump drive were considered. Centralised fuel preparation was found best. As the fuel consumption is 12 million tons a year, it had to be decided whether it was best to locate the station near the fuel and bring the water to it, or vice versa; at the time it was found best to locate the station near the water, but this is now being reconsidered. The design variants considered were?

- (1) 4 turbines SKK-600 (300 atm 650/565/565°C) and 4 direct-flow boilers of 1690 tons/hr 655/570/570°C.
- (2) 4 turbines SVK-600 (220 atm 580/560°C) and 4 direct-flow boilers of 1900 tons/hr 580/570°C.
- (3) 4 turbines SKK-300 and 3 (21) turbines SKK-600, 4 direct-flow boilers of 845 tons/hr and 2 of 1690 tons/hr.
- (4) 4 turbines SVK-300 (220 atm 580/565°C) and 2 turbines SKK-600 (300 atm 650/565/565°C) with 4 direct-flow boilers of 950 tons/hr and 2 of 1690 tons/hr.

The schematic thermal diagram of a unit is given in Fig.2. Wet asharresters are proposed with hydraulic ash-removal. A number of different station arrangements were considered, some of which are shown in Figs.3. and 4. All arrangements used outdoor installation of induced-draught fans and ash-arresters and transverse arrangement

Card 3/5

A super-high-output thermal electric power station.

SOV/96-58-7-12/22

of turbo-alternators. The preferred arrangement uses turbines SVK-600, inverted U semi-outdoor boilers and central ash-preparation, with a crane in the boiler house and an indoor machine hall. The main sets are arranged as units, each comprising one boiler, one turbine and all auxiliaries, one feed-pump of 2060 m3/hr at a head of 290 atm, and a reserve electrically-driven pump of half this output. One control-board serves two units. The fuel consumption is 1700/1800 tons/hr; fuel is unloaded by three wagon tipplers. The fuel preparation equipment is described. The cooling-water system is direct flow with a cooling pond, fed from a river on which two reservoirs would be constructed. The main data of the four variants that were fully worked out are given in Table. 2, which shows that the variant adopted gives the lowest cost per kW, but the variant with 4 turbo-generators SKK-300 and two SKK-600 is competitive. With stations of this size the installed cost per kW is 30-35% less than for a station of 1200 MW, the staff required is relatively smaller and the main building is relatively much smaller. A considerable number of very large power stations will be required in the 7th and 8th Five-Year Plans in which it will be practicable to install sets of 300 and 600 MW with boilers of up to 1900 tons/hr. As the development of this equipment will take some time, manufacturers and designers should start work forthwith. There is not much difference between the cost of various arrangements of the main

Card 4/5

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A super-high-output thermal electric power station.

SOV/96-58-7-12/22

building and the choice should be based on operating convenience. The first stage of ash-arresting would be in the furnace cyclones, which retain 80 - 85% of the ash; the second stage would use wet ash-arresters with an efficiency of about 92%, giving an everall efficiency of arrest of about 98½. Because of this high efficiency and because the locality is sparsely populated the stack height would be 150 m. Only limited fuel storage would be required because the open-cast workings are nearby. There are 2 tables and 5 figures.

In this article and other Soviet literature, extensive use is made of turbine designations such as SYK-300 or SKK-600, where SVK stands for super-high-pressure, condensing SKK for super-critical-pressure condensing and the number 300 or 600 indicates the megawatts output.

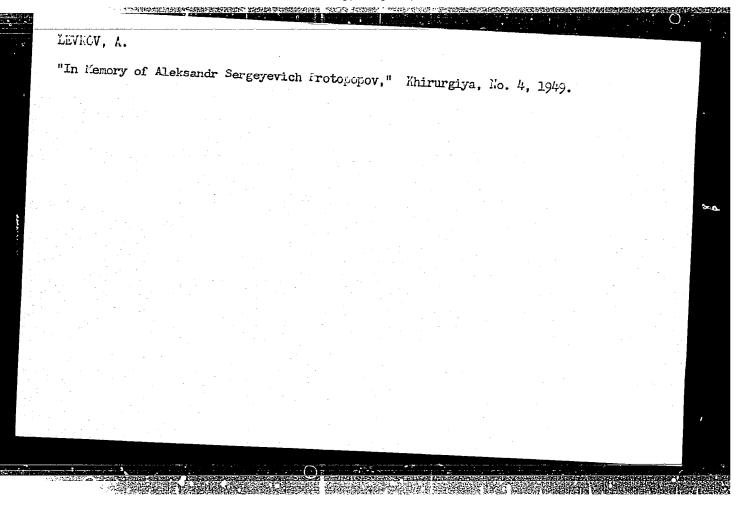
**ASSOCIATION** 8

Teploelektroproyekt

Steam power plants - Design 2. Steam power plants - Equipment 3. Electric power production - USSR

Card 5/5

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710



BALABAROV, Krum, professor; LEVKOV, Aleksandur

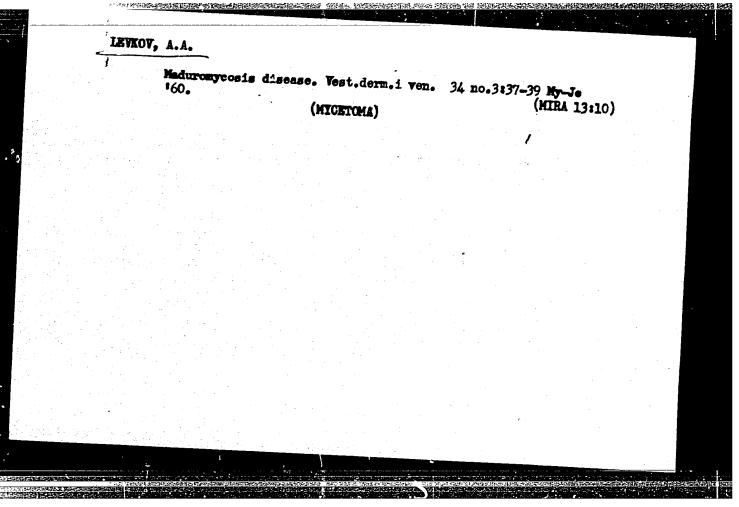
Treatment of cutaneous tuberculosis and of tuberculous epididymitis with new drugs. Isv.med.inst.Sofia 11-12:477-507 1955.

1. Koshna klinika, (dir.:prof.L. Popov) pri Visshiia meditsinski institut V. Ghervenkov-Sofiia.

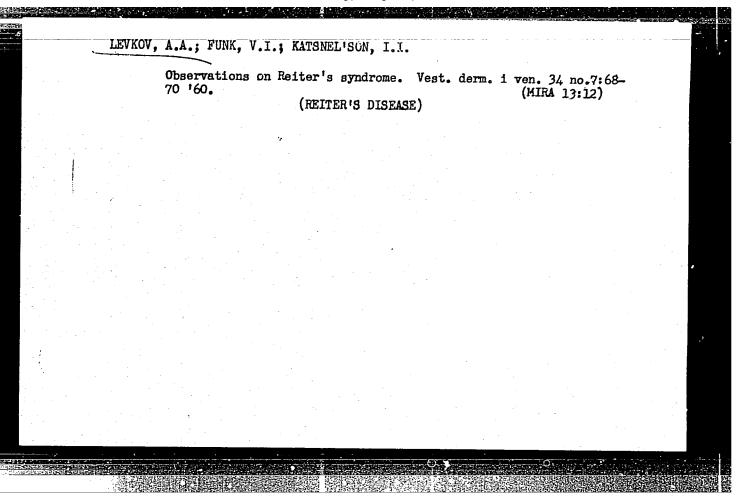
(TUBERCULOSIS CUTANEOUS, therapy, chemor.)

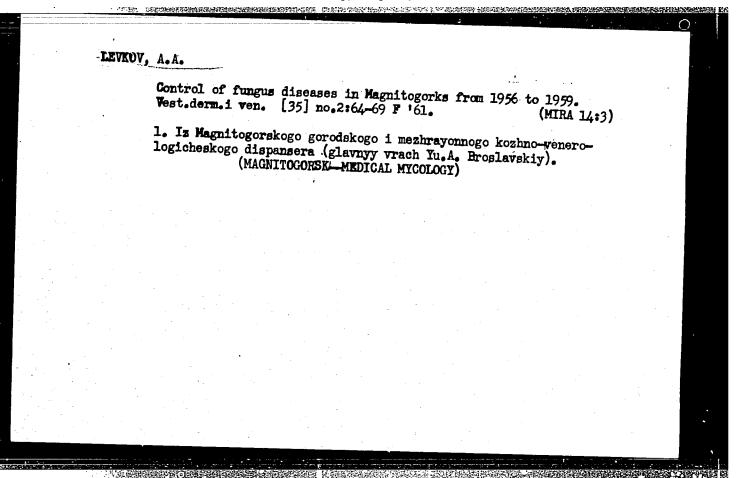
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epididymis, chemother.)



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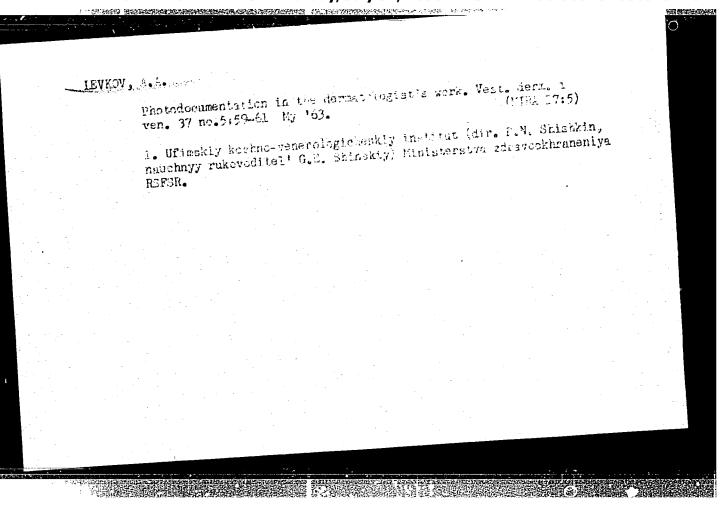
### KATSNEL'SON, I. I.; LEVKOV, A. A.

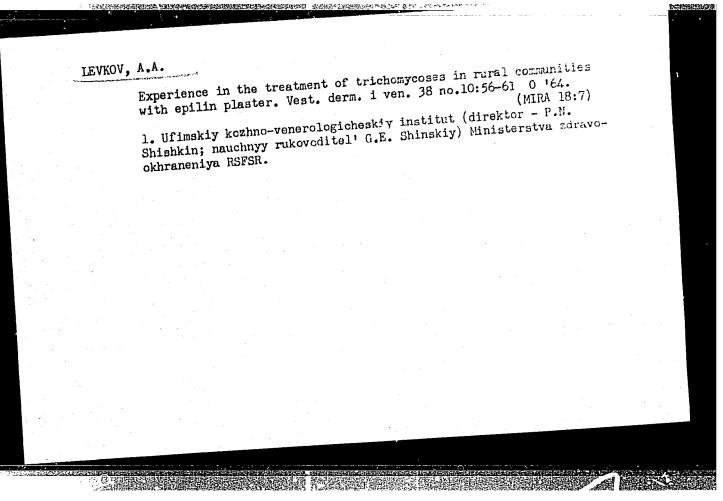
Deep mycosis with skin lesions of the mycetoma type. Vest. derm. i ven. no.4:78-80 62. (MIRA 15:4)

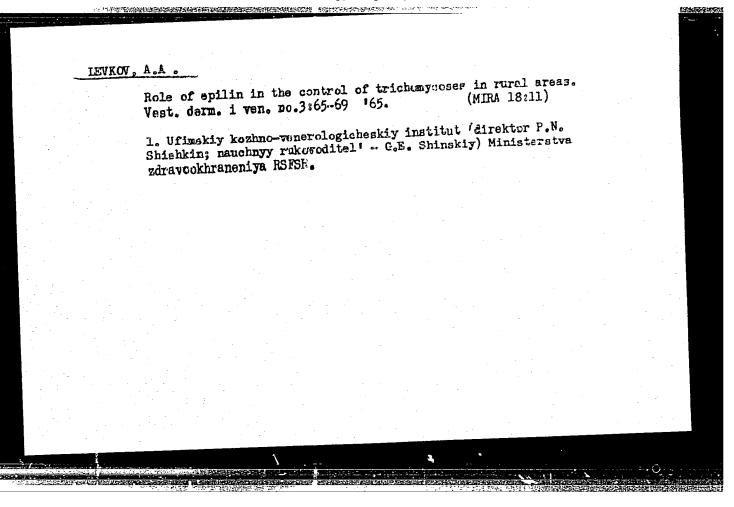
1. Iz mediko-sanitarnov chasti tresta "Magnitostroy" (glavnyy vrach Ye. N. Yermakova) i Magnitogorskogo gorodskogo i mezhrayon-nogo kozhno-venerologicheskogo dispansera (glavnyy vrach Yu. A. Broslavskiy)

(MYCETOMA)

## "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710







GUBIN, N.I.; ZAGAYEVSKIY, Yu.L.; KAZAKOV, L.M.; LEVKON. A.I.; LEVCHENKO, A.I.; MALICHENKO, E.Ya.; KAZAKOV, L.M.; POTAPENKO, G.D.

Overall mechanization and automation of mines in the Tula-ugol Combine. Ugol 40 no.2:1-5 F '65. (MIRA 18:4)

1. Shakhta No.38 (tresta Novomoskovskugo 'for Gubin). 2. Trest
Krasnoarmeyskugol' (for Zagayevskiy). 3. Kombinat Tulaugol' (for
Kazakov). 4. Shakhta No.2 "Bibikovskaya" tresta Uzlovskugol' (for Levkov).
5. Shakhta No.13 tresta Shehekinugol' (for Levchenko). 6. Shakhta No.2
"Zubovskaya" tresta Krasnoarmeyskugol' (for Mal'chenko). 7. Trest Novomoskovskugol' (for Potapenko).

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LEVKOV,	A.I., inzhener.		D	:
	Increased speed of wood dr no.2:19-20 F '56.	rying at high temperature.	Der.prom. 5 (MLRA 9:5)	
	1. Maykopskiy mebel'nyy ko (LumberDrying) (k	ombinat. MaykopFurniture industry)		
				_

LEVKO, A.I. [Liauko, A.I.], kand.filos.nauk; PALILOV, A.I. [Falilau, A.I.], kand.biol.nauk

J.B. Lamarck's teaching and role in the development of biology.

Vestsi AH BSSR. Ser.bital.nav. no.2:33-42 '60. (MIRA 13'7)

(LAMARCK, JEAN BAFTISTE, 1744-1829) (BIOLOGY)

LEVKOV, A.N.; NOSKOV, M.M.

Magentooptical Kerr effect and the structure of surface layer of mechanically polished metal. Izv. vys. ucheb. zav.; fiz. no.3:76-81 '58. (MIRA 11:9)

1. Ural'skiy gosuniversitet imeni A.M. Gor'kogo. (Metallography) (Magnetoeptics)

51-4-3-15/30 AUTHORS: Levkov, A.N. and Noskov, M.M.

Magneto-Optical Rotation in Alloys of Nickel with TITLE:

Palladium. (Magnetoopticheskoye vrashcheniye v

splavakh nikelya s palladiyem.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol. IV, Nr. 3,

pp.378-382 (USSR)

ABSTRACT: The present paper reports measurements on the magneto-

optical Kerr effect (rotation of the plane of polarization of light on reflection by ferromagnetics). effect is due to a difference in the degree of damping inside a magnetized ferromagnetic of electromagnetic

waves polarized in two mutually perpendicular directions. Nickel-palladium alloys were studied. These two metals form a continuous series of solid solutions in which the mean distance between atoms increases uniformly with

increase of Pd content. The samples were in the form of disks with from 0 to 90 atomic % of Pd. Unifor of the samples was checked by X-ray analysis of their Uniformity

structure. Ferromagnetic Curie points (Fig. 3) of the

samples were found to decrease monotonically with increase of Pd content. Mirror surfaces on samples Card 1/4

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Magneto-Optical Rotation in Alloys of Nickel with Palladium.

were prepared by mechanical polishing. The apparatus used is shown in Fig.1. An Iceland spar crystal was used to separate the reflected light into two mutually perpendicularly polarized beams. The ratio of the relative intensities of these two beams altered by the Kerr effect had its original value re-established by a rotation of the plane of polarization by means of a cell filled with distilled water and placed inside a solenoid. Current in the solencid was proportional to the measured Kerr rotation. Re-establishment of the original value of the intensity ratio was observed by balancing a photoelectric bridge with a quadrant electrometer as a null indicator. A mercury lamp was used as the source. The results of photoelectric measurements were partly checked visually. measurements were made at rcom temperature. optical constants of samples were determined by B.Ya. Silant'ev. Measurements of the dependence of the Kerr effect on the alloy composition (Fig. 2) were made in a magnetic field of 8000 cersted in which, in all cases, magnetic saturation was reached and a limiting value of

Card 2/4

51-14-3-15/30 Magneto-Optical Rotation in Alloys of Nickel with Palladiun.

the angle of rotation a was obtained. At 50 Pd the Kerr effect varies slowly with the alloy **A**t 50-65% composition, but on both sides of this region the Kerr effect depends strongly on the amount of Pd in the alloy. Values of the saturation magnetization Is are given These values were used to calculate the Kerr in Fig.3. constant  $R = a_g/I_g$ The dashed curve in Fig. 3 gives the values of Iso, which is the saturation magnetization reduced to the absolute zero of temperature. The third curve in Fig. 3 gives the dependence of the Curie point on the Pd content. Fig.4 shows the dependence of the optical constants of Ni-Pd alloys on their composition. The strong dependence of the magneto-optical Kerr effect on the Pd concentration seems to contradict the constancy of the atomic magnetic moment and of optical constants of Ni-Pd alloys when the Pd content is varied. The theory given in Ref.1 does not solve this problem, probably because of simplified assumptions on which this theory Furthermore this theory is applicable to is based.

Card 3/4

51-4 -3-15/30 Magnete-Optical Rotation in Alloys of Nickel with Palladium.

pure ferromagnetic metals and not to alloys. A tentative explanation of the dependence of the Kerr constant R on the Pd content in Ni-Pd alloys is sought in the dependence of R on the relative magnetization  $y = I_g/I_{go}$ which falls with increase of Pd in the alloys. In a separate experiment the authors found that annealing in an atmosphere of hydrogen (both Ni and Pd can absorb large quantities of hydrogen) at 700°C affected strongly the Kerr angle of rotation in Ni-Pd alloys with 20, 50 and 57 atomic % of Pd (Fig.5). The effect of hydrogen is reversible; annealing in vacuum at 900°C re-established the original values of the Kerr angle of rotation. There are 5 figures and 7 references, of which 4 are Soviet. 1 German. 1 French and 1 American.

ASSOCIATION: Ural State University, Sverdlovsk.

(Ural'skiy gosudarstvennyy universitet, g. Sverdlovsk.)

SUBMITTED: June 3, 1957.

Card 4/4

1. Nickel-palladium alloys-Reflective effects 2. Magnets-optic rotation

LEVKOV, A. N.: Master Phys-Math Sci (diss) -- "Investigation of the magneticoptical properties of a system of nickel-palladium alloys". Sverdlovsk, 1959.

11 pp (Min Higher Educ USSR, Ural State U im A. M. Gor'kiy), 150 copies (KL, No
15, 1959, 113)

5/139/62/000/004/018/018 E039/E420

**AUTHORS:** 

Levkov, A.N., Shkolina, Ye.I. The magneto-optical properties of alloys in the Ni-Co

system in the region of small Co content

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika,

no.4, 1962, 182-184

The early experiments on the Kerr and Faraday effects are discussed briefly. An experimental investigation of the dispersion and concentration dependence of the Kerr effect in the Ni-Co system is described for Co concentrations up to 22% at. Co. 12 Samples are used to cover this range at 2% intervals. A mirror surface is produced on the samples by mechanical burnishing and polishing and the effect of this on the properties of the surface layers is discussed. The samples are heated at 420°C at a rayers is discussed. The samples are neated at 420°C at a pressure of 10°4 mm Hg for 2 hours to restore the crystal structure in the surface layers without destroying the mirror finish. It is shown that the addition of Co to Ni up to 22% At. Co does not change the Kerr effect dispersion significantly in the visible region of the spectrum. A slight increase in the Kerr effect is

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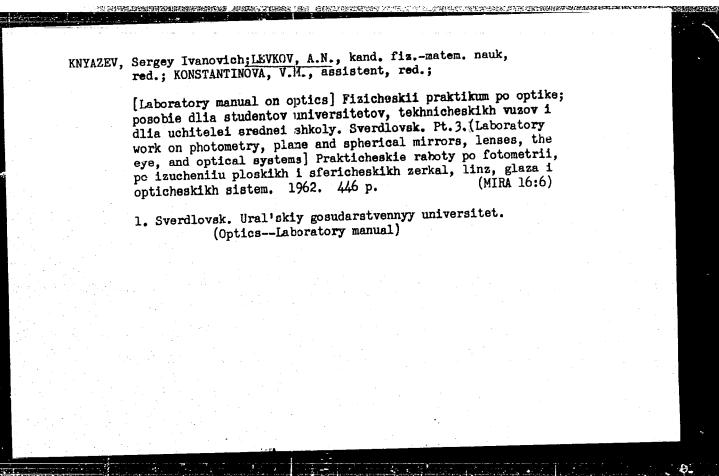
	1)/EMT(m)/EMP(t) IJP			
ACC NR: AP6005232		SOURCE CODE: UR/0058/65/000	)/009/E129/E129	
AUTHOR: Levkov, A.	N.		13	
TITLE: Investigati	on of the magneto-opti	cal Kerr effect on the Cr-Pt	alloy B	
SOURCE: Ref. zh. F		15,27		
REF SOURCE: Sb. Fi	z. magnitn. yavleniy.	Sverdlovsk, 1964, 146-153		
TOPIC TAGS: chromi ordered alloy, surf	um alloy, platinum all ace property, annealin	oy, Kerr effect, magnetoopti g	c effect,	
using an alloy of 3 ordered alloy grind sequent annealing a slight polishing wi frequency dependence	O at.% Cr and 70 at.%; ing and polishing lead to 600C greatly increase the dry flet again discrete of the Kerr effect of	by the method of photoelectre. It is established that is to disordering of the surfaces the degree of long-range reders the surface. An investigation of a partially ordered alloy at 405 nm) decreases linear	for a partially- ace layer. Sub- order, but even tigation of the shows that the	
creasing  reverse	s sign at $\lambda = 510$ nm,	and becomes equal to -4.5° a	t $\lambda = 580$ nm.	
creasing \( \), reverse \( \). Fedorov.	s sign at $\lambda = 510$ nm,	and becomes equal to -4.5° a	rly with in- t λ = 580 nm.	
angle of rotation a creasing $\lambda$ , reverse G. Fedorov.	s sign at λ = 510 nm, (	and becomes equal to -4.5° a	rly with in- t λ = 580 nm.	
creasing \( \), reverse \( \). Fedorov.	s sign at λ = 510 nm, a	and becomes equal to -4.5° a	rly with in- t λ = 580 nm.	7

# LEVKOV, A.N.; SHKOLINA, Ye.I. Magnetooptical properties of alloys of the system nickel-cobalt in the region of small cobalt concentrations. Izv.vys.uch.sav.; fiz. no.4:182-184 '62. (MIRA 15:9) 1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo. (Magnetooptics) (Nickel-cobalt alloys)

LEVKOV, A.N.; NOSKOV, M.M.; PONCMAREVA, V.I.

Faraday effect in copper oxide and selenium hear the main absorption band. Izv. vys. ucheb. zav; fiz. no.1:171-175 '63. (MIA 16:5)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo. (Faraday effect) (Gopper oxide) (Selenium)



EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) \_JD/\_JG L 47162-66 UR/0137/65/000/009/1039/1039 SOURCE CODE: ACC NR: TR6000151 AUTHOR: Levkov, A. N. TITLE: Investigation of the magneto-optic Kerr effect in chromium-platinum alloy SOURCE: Ref. sh. Metallurgiya, Abs. 91245 REF SOURCE: Sb. Fis. magnith. yavieniy. Sverdlovsk, 1964, 146-153 TOPIC TAGS: chromium containing alloy, platinum containing alloy, Kerr effect ABSTRACT: The magneto-optic Kerr effect (MEK) in alloy Pt + 30 at \$ Cr (Gurie point of 3140) was studied by a photoelectric method. After homogenizing the specimens (15 mm diameter, 2 mm thick) were machanically polished. Observations revealed the presence of a ferromagnetic condition in the bulk of the specimen. In the surface layers, MEK was absent. This is explained by the destruction of the ordered structure due to mechanical treatment. The surface structure was reestablished by forevacuum annealing at 600C. After 2 hours annealing MEK appeared and increased with the period of annealing. The absence of the influence of the degree of longrange order 1 on the shape of dispersion of the magneto-optic rotation was estab. lished. The inversion point of the alloy is in the visible region of the spectrum and after 6 hours annealing is displaced from  $\lambda_0 = 580$  mm. to  $\lambda_0 = 510$  mm. The increase in the absolute value of MEK with the length of the annealing period UDC: 669.265'231:535 Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

is explained by an increase in magnetisation saturation of the optically active surface layer with increase in \(\cap(\) (from zero to 50%). I. Dekhtyar Translation of abstract											
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LEVKOV, B.

Effect of mass heating on the quality of wall-tile biscuits. Staklo. p. SPK33.

KEMIJA U INDUSTRIJI. (Drustovo kemicara-technologa NHR) Zagreb, Yugoslavia. Vol. 8, no. 9, Sept. 1959.

Monthly List of East European Accessions (LEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

LEVKOV DK

25(5)

PHASE I BOOK EXPLOITATION

SOV/1314

Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.E. Dzerzhinskogo

Opredeleniye proizvodstvennykh moshchnostey v mashinostroyenii (Determining Productive Capacities in Machinery Manufacturing) Moscow, Mashgiz, 1957. 185 p., 8,000 copies printed.

Additional Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Ed.: Voskresenskiy, B.V.; Tech. Ed.: Uvarova, A.F.; Managing Ed. for Literature on the Economics and Organization of Production (Mashgiz): Saksaganskiy, T.D.

PURPOSE: This collection of articles is for engineering and technical personnel of manufacturing plant; and national economic councils.

Card 1/4

Determining Productive Capacities (Cont.)

SOV/1314

COVERAGE: This collection of articles explains the methodology and practice employed in determining the productive capacities of machinery manufacturing establishments and discusses the discovery and utilization of untapped productive capacities. Material included in this collection of articles was presented and discussed at the second scientific and technical conference on exchange of experience in the field of dealing with the methodology and actual determination and utilization of productive capacities in Soviet machinery manufacturing plants, convened in December of 1955 by the Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.E. Dzerzhinskogo (Moscow House imeni F.E. Dzerzhinskiy for Dissemination of Scientific and Technical Data). There are no references. No personalities are mentioned.

TABLE OF CONTENTS:

From the Editors

3

Card 2/4

Determining Productive Capacities (Cont.) SOV/1314	
Mett, G.Ya., Docent. Reserves [Hidden Capacities] of Productive Capacities in Machinery-manufacturing Plants and Ways of Utilizing Them	5
Frumin, I.L. Methods Used in Determining the Productive Capacity of Machinery-manufacturing Plants	28
Khisin, R.I. Rules for Determining the Productive Capa- city of Plants in Machine-tool Manufacturing	44
Odoyev, S.N., Engineer. Calculating Capacities and Exposing Productive Reserves in Heavy Machinery Manufacturing	59
Voskresenskiy, B.V. and A.P. Lyubimov. Calculating Production Capacities and Exposing Productive Reserves in Plants Manufacturing Transport Equipment	77
Levkov, D.K., Engineer. Calculating the Productive Capacity of Plants Manufacturing Construction and Road Equipment Card 3/4	122

Kozlov, F.V., Engineer, and B.I. Smirnov, Engineer. Methods of Determining the Productive Capacity of	
Shipyards	131
Khesin, Ya.I. Experience of the Moscow Automobile Plant imeni I.A. Likhachev in Calculating and Discovering Unused Productive Capacities	164
	107
Markov, N.M. Experience of the Kolomna Plant for Heavy Machinery in Calculating and Discovering Unused Pro-	
ductive Capacities	171
Ratner, M.L. Candidate of Technical Sciences. Structure of the Machine-tool Stock and Utilization of Productive	
Capacities	176
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#### "APPROVED FOR RELEASE: Monday, July 31, 2000

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(MIRA 13:8)

LEVKOV, D.K., inzh.; LOKSHIM, S.V., inzh. Introducing all-purpose adjusting tools in plants manufacturing building and road machinery. Stroi. i dor. mashinostr. 5 no.8:31-33

(Machinery industry -- Equipment and supplies)

Some characteristics of the granulometric composition of sand sediments in the White Russian S.S.R. Vestei AN BSSR. Ser. fiz-tekh. nav. no.4:128-130 '62. (MIRA 18:4)

GORELIK, Zalman Abramovich; MISHAGOVA, Edit Donal'dovich; LEVKOV, Ernst Arkad'yevich; AVKSENT'YEV, A.N., red.; BARABANOVA, Ye., red. izd-va; VOLOKHANOVICH, I., tekhn. red.

[Sands of the White Russian S.S.R. and their industrial utilization]
Peski BSSR i ikh promyshlennoe ispol'zovanie. Minsk, Izd-vo Akad.
nauk BSSR, 1961. 170 p. (MIRA 14:11)
(White Russia—Sand)

LEVKOV, Ernst Arkad'yevich; CHERKASOV, A., red.

[Mineral resources of White Russia] V nedrakh zemli
Belorusskoi. Minsk, Izd-vo "Belarus'," 1964. 121 p.

(NIKA 17:6)

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	Prefabricated frame-panel building 160.	s. Seli. stroi. l	6 no.11:13-14 N (MIRA 13:11)	
	l. Wachal'nik otdela kapital'nogo khozupravleniya. (Maritime Territory-Fa		orskogo kraysel'-	

MILOSHEV, G.; LEVKOV, L.; KRASTANOV, L. [Krustanov, L.], Academician

Formation of crystalline embryos with tetragonal lattices on the isomorphic nuclei. Doklady BAN 17 no.8:697-700 '64.

1. Chief Editor, "Doklady Bolgarskoi akademii nauk, Comptes rendus de l'Academie bulgare des Sciences" (for Krustanov).

I 34514-66 BU/0011/65/018/010 SOURCE CODE: ACC NRI AP6024742

AUTHOR: Krastanov, L.; Miloshev, G.; Levkov, L.

ORG: Geophysical Institute, BAN

TITIE: Activity on the equilibrium-shaped faces of ice

SCURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 10, 1965, 911-914

TOPIC TAGS: ice, crystal lattice structure, crystal surface, epitaxial growing, formation heat

The equilibrium shape of ice crystals is ABSTRACT: surrounded by basic (0001), prismatic (0101), and pyramidal (1011) faces. The authors investigate theoretically the activity of these faces by comparing the energy of formation of two-dimensional embryos from the gas phase above them. In the crystal models used the positions of the water molecules are assumed identical with the position of the oxygen stoms in the lattice. Calculations took into account the surface structure of the base and the processes of epitaxial deposition. Though the results cover the two-dimensional ice embryo-ice case, they can be applied also to the ice formation from the gas phase on foreign but ice-similar (in structure) bases such se AgI and PbI. In all the cases, in presence of supersature the primatic feces appear to be the most ective ones. Orig. art. has: 2 figures and 9 formulas. [Orig. art. in Eng.] [JPRS: 34,964]
SUB CODE: 20 / SUBM DATE: OLJul65 / ORIG REF: 002 / OTH REF: 002 Card 1/1 mg

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HU/0033/65/069/006/0321/0326 SOURCE CODE: ACC NR: AP6027385 Krystanov, L. (Doctor; President BAN; Director); Miloshev, G.; Levkov, L. AUTHOR: ORG: Instituto for Geophysics, BAN, Sofia TITIE: Effectiveness of the surfaces of the ice forms in the state of equilibrium This paper was presented at the Symposium on Cloud Physics, held in Budapest from 8 to 10 September 1965. SOURCE: Idojaras, v. 69, no. 6, 1965, 321-326 TOPIC TAGS: ice, crystal growth, cloud physics ABSTRACT: The formation of two-dimonsional nuclei appearing on the surfaces of ice crystals was investigated by studying the equations characterizing the forces involved in the growth. After determining the force needed for the separation of the "half crystal" from the hexagon or prism surfaces, the force required for nucleus formation as a function of supersaturation was calculated. The prism surfaces required less force than the hexagon surfaces. The factors discussed are of importance in cloud physics. Porig. art. has: 2 figures and 16 formulas. Based on authors Eng. abst. [JPRS: 31,270] SUB CODE: 04, 20 / SUBM DATE: none / SOV REF: 003 / OTH REF: 1/1 Card

ACC NR: AP7003865

SOURCE CODE: BU/0011/66/019/012/1139/1142

AUTHOR: Levkov, L,; Genadiev, N.

ORG: Geophysical Institute, Bulgarian Academy of Science

TITLE: Relation between the freezing temperature of supercooled water droplets and the cooling rate

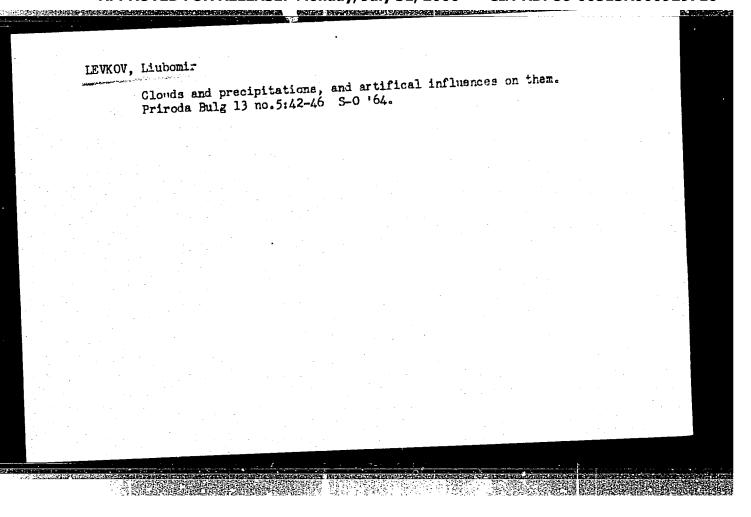
SOURCE: Bulgarska akademiya na naukite. Doklady, v. 19, no. 12, 1966, 1139-1142

TOPIC TAGS: meteorology, cooling rate, supercooled water droplet, freezing, temperature neasureness, contre, supercooled water droplet, freezing,

ABSTRACT: A study was conducted to determine the relationship between the freezing temperature of supercooled water droplets and the cooling rate. Twenty water droplets from various samples of water were frozen a total of 326 times in a 20-cm<sup>3</sup> freezing chamber at different cooling rates, and were defrosted. The results obtained showed that the absolute maximum deviation from the mean freezing temperature of each drop varied between 0.2—0.9C, and the mean

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# MILOSHEV, G.; LEVKOV, L.

Influence of the adsorption on the formation of embryos with tetragonal lattices on the isomorphic nuclei. Doklady BAN 17 no.8:700-704 '64.

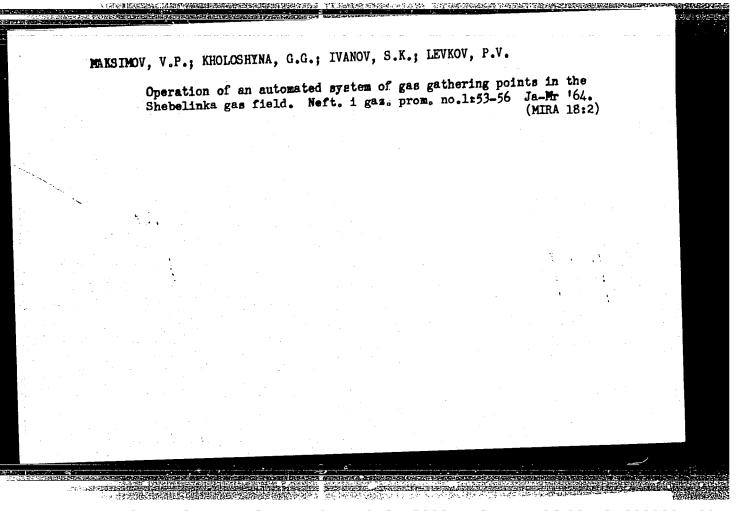
l. Note presentee par L. Krastanov [Krustanov, L.], membre de l'Academie et redacteur responsable, "Doklady Bolgarskoi akademii nauk, Comptes rendus de l'Academie bulgare des Sciences".

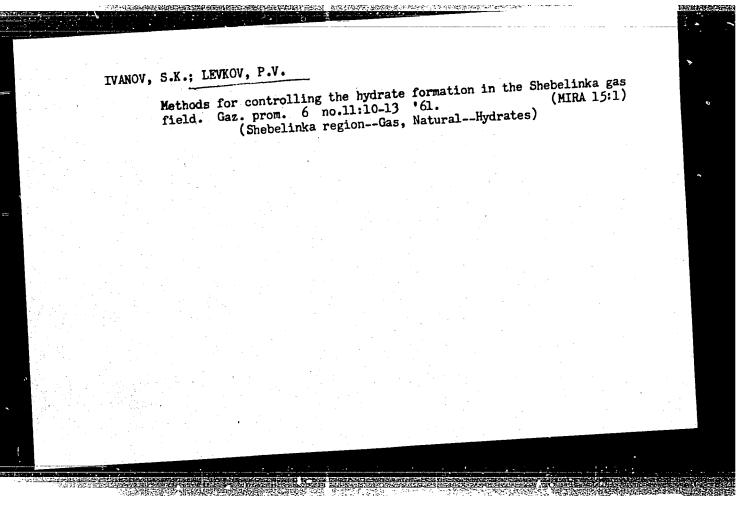
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MILOSHEV, G.; LEVKOV, L.; KRASTANOV, L.[Krustanov,L.]

Condensation nuclei insofer as embryos are ready for adsorption of foreign substances. Doklady BAH 17 no.9:213-216 164.

1. Submitted April 29, 1964.





LEVKOV, P.V.; ROSTOTSKIY, L.M.

Automatic control of a group of points in the Rudki gas field.

(MIRA 17:9)

(az. delo no.8:33-35 '64.

1. Institut avtomatiki AN UkrSSR.

LEVKOV, V.; TIMOFEYEV, V.Ye., dotsent, nauchnyy rukovoditel'

Key to the determination of multicell algae of Kuybyshev
Province. Uch.zap.Kuib.gos.ped.inst. no.37243-50 '62.
(MIRA 16:1)

(Kuybyshev Province—Algae)

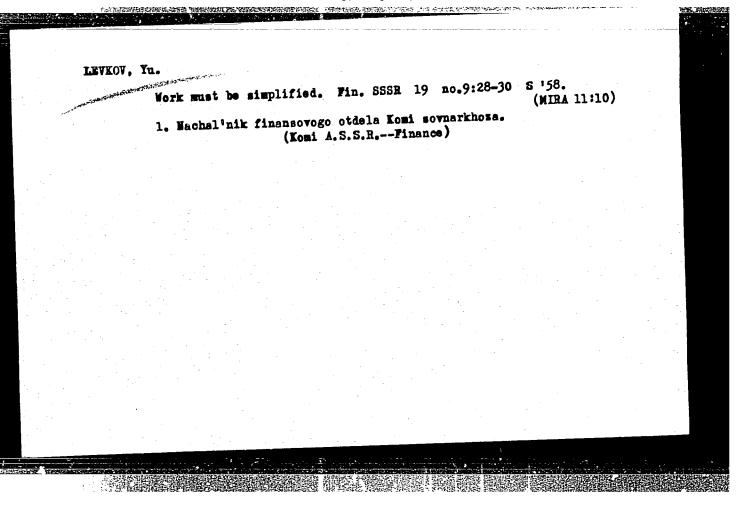
- 1. LEVKOV, V. P.
- 2. USSR (600)
- 4. Horse Pacing- Kamyshlov
- 7. 25 years activity of the Kamyshlov racr track (Sverdlovsk Province). Konevodstvo 23 no. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

NEFEROY, O.M.; LEVKOY, Ya.L.; PETROY, A.D.

Synthesis of aryl halides from aromatic hydroxy compounds.
Dokl.AN SSSR 133 np.4:855-858 Ag '60. (MIRA 13:7)

1. Institut organicheskoy khimii imeni N.D.Zelinnkogo
Akademii nauk SSSR. 2. Chlen-'correspondent AN SSSR (for Petroy). (Halides)



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	120-14 ArOH	$\stackrel{\text{(Ar'O)}_3\text{PCI}_2}{\to} (\text{Ar'O)}_3 (\text{A:O)} \text{PCI} + \text{HCI};$ $\stackrel{\text{(Ar'O)}_3}{\to} \text{ArCI} + (\text{Ar'O)}_3\text{PO},$		
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Production of Aryl Halides From Aromatic Hydroxy Compounds

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where Ar! OH is an aromatic hydroxy compound with better electron-donor where Ar on is an alomatic normal properties than ArOH (phenol, p-cresol, the best one being p-tert.-butyl phenol). To obtain aryl bromides (ArBr) or aryl iodides (ArI), the compound (Ar'0)3(ArO)PCl is boiled before the pyrolysis with an excess

of C2H5Br or CH3I, e.g.:

(Ar'O)<sub>5</sub> (ArO) PCI + C<sub>2</sub>H<sub>8</sub>Br → (Ar'O)<sub>8</sub> (ArO) PBr + C<sub>2</sub>H<sub>5</sub>CI;  $(Ar'O)_s$  (ArO) PBr  $\xrightarrow{250-350^a}$  ArBr + (Ar'O)<sub>s</sub>PO.

During the pyrolysis of the reaction products, the undesired halide Ar'X is also formed (up to 70%). The yields of aryl bromides become even smaller. Therefore, the authors developed modified methods of synthesizing individual ArX, in which they proceeded from the corresponding hydroxy compounds and PX5. They found that the substitution of the hydroxy group in ArOH by chlorine for the production of ArCl can be performed during one stage. For this purpose, the corresponding aromatic compound is heated

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Production of Aryl Halides From Aromatic Hydroxy Compounds

S/020/60/133/004/038/040XX B016/B054

as of the ArX produced, on the basis of the authors' data and publications. There are 1 table and 8 references: 1 Soviet, 1 US, 3 German, and 1 Indian.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni

N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

April 25, 1960

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APPROVED FOR RELEASE: Monday, July 31, 2000

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