GROMOVA, G.; MASHKOVICH, S.A.

Some results of numerical forecasts of the baric field at sea level and in the middle troposphere. Trudy TSIP no.86:49-54 '59.

(Atmospheric pressure)

(Atmospheric pressure)

Characteristics of atmospheric circulation over Eastern Siberia and the adjacent part of the Pacific Ocean. Meteor. i gidrol. no.6:28-32 Je 162.

(Atmospheric temperature)

S/546/62/000/119/001/002 A006/A101

AUTHOR:

Gromova, G. G.

TITLE:

Peculiarities of circulation during strong cooling in the European

territory of the USSR

SOURCE:

Moscow, Tsentral nyy institut prognozov, Trudy, no. 119, 1962.

Voprosy dolgosrochnykh prognozov maloy zablagovremennosti. 51 - 69

TEXT: The author attempts to determine the correlation between strong cooling in the European territory of the USSR and changes in the intensity of meridional and zonal circulation in various areas of the northern hemisphere. A detailed analysis is made of ultrapolar processes which are classified according to a method developed by A. L. Kats. The investigation is based on 39 synoptic periods when cooling was caused by the motion of anticyclones along the ultrapolar axis. To reveal quantitative circulation characteristics in the investigated 39 synoptic periods of strong cooling, indices of zonal and meridional circulation for each of them are analyzed. Circulation indices of the North-American sector are studied

Card 1/3

S/546/62/000/119/001/002 A006/A101

Peculiarities of circulation during...

Card 2/3

to reveal circulation peculiarities in remote areas. A detailed analysis is made of peculiarities in strong cooling during processes with 3 different evolution types of the upper-air frontal zone: 1) monotonous northward evolution of the crest; 2) southward direction of the crest; 3) quasi-stationary state of the orest; The studies lead to the following conclusions: The lowest drop of the air temperature in the European territory of the USSR is observed during the motion of ultra polar anticyclones. Strong cooling during the ultrapolar surge to the East-European territory is predetermined by an intensive tropospheric cold seat in the region of the Taymyr Peninsula. During synoptic periods of ultrapolar surge on the European territory of the USSR, the meridional state predominates upon the zonal ... state over the Atlantic Eurasian sector of the northern hemisphere (I' is greater than norm N; I' is the ratio of the indices of meridional, I_m , and zonal $I_{\overline{z}}$, circulation). Simultaneously, an anomalous development of zopality and meridionality takes place in the North-American sector. It is then $\frac{I_m}{I}$ < N. To the greatest negative deviation of I' from norm N, corresponds a maximum southward penetration of ultrapolar anticyclones over Eastern Europe. As a result of the upper-air crest growth over Scandinavia and an increased amplitude of the upper-air

Peculiarities of circulation during...

S/546/62/000/119/001/002 A006/A101

frontal zone fluctuation during the synoptic period, and the simultaneous evolution of the crest top to the north-east, the anticyclone moves over the earth surface along an ultrapolar trajectory with a high western component. The main cold is then observed in the northern section of Eastern Europe. If the upper-air fluctuation amplitude over Scandinavia decreases during the synoptic period, the anticyclone over the earth surface moves along the ultrapolar trajectory, but to the south-west, attaining the extremal southern regions of the Ukraine. The main cold is then observed in the southern section of Eastern Europe. There are 7 figures and 5 tables.

Card 3/3

S/546/62/000/119/002/002 A006/A101

AUTHOR: Gromova, G. G.

TITLE: Characteristics of zonal and meridional processes over East-Siberia

and the adjacent section of the Pacific Ocean

SOURCE: Moscow, Tsentral'nyy institut prognozov, Trudy, no. 119, 1962

Voprosy dolgosrochnykh prognozov maloyzablagovremennosti. 104 - 112

TEXT: The author presents results of investigating peculiarities in the formation of circulation characteristics during several years over East-Siberia and the adjacent section of the Pacific, obtained from analyzing the frequency of concrete circulation types in this region. For this purpose the author used a catalogue of daily indices of zonal and meridional circulation according to AT charts for various sectors of the northern hemisphere during 1954 = 61.

Macroprocesses are classified with the aid of quantitative criteria. The frequency of the circulation types over the seasons is investigated. The investigation yields the following results. The intensity of meridional circulation over the

Card 1/3

s/546/62/000/119/002/002

Characteristics of zonal and meridional processes over.. A006/A101

area investigated is characterized by a decrease from the winter to the summer. Its evaluation from AT₅₀₀ charts is on the average twice and more below the actual evaluation, and even four times less during the summer, because relatively uniform meridional macroprocesses are developed over the area investigated during the cold season. In the summer season, however, opposite meridional circulation types (M and W) alternate rapidly, at a relatively low prevalence of typical summer macroprocesses (C and E). Meridional processes with an active southern branch of the upper-air frontal zone are observed most frequently; processes with an active northern branch of the upper-air frontal zone occur very rarely. This is probably one of the causes, that in the 30 - 50 northern latitude zone of East-Asia and the adjacent section of the Pacific, intensive streams are observed. Actually, the mean annual frequency of zonal and meridional type synoptic processes with an active southern branch of the UFZ in the 35 - 50 n. l. area, is 70%. Of the four types of meridional circulation the highest yearly frequency occurs for the type with mixed orientation of the UFZ crest (M), and lowest frequency is shown by the type with eastern orientation of the UFZ crest (E).

Card 2/3

Characteristics of zonal and meridional processes over.. A006/A101

In the seasonal distribution of the circulation types, zonal processes are characteristic of the autumn; type M (mixed) meridional processes are characteristic of the winter; type W (western) of spring, and types C (central) and E (eastern) of the summer. The predominance (62.5%) of type M meridional circulation is the cause of stable winter monsoons over the aforementioned region. This proves also the low horizontal macroturbulence of winter processes. During the summer, type C meridional processes prevail over the other types; this causes lesser stability of summer monsoons and a greater horizontal turbulence over this region. There are 8 tables and 1 figure.

Card 3/3

GROMOVA, G.G., kand: geograf. nauk; KNYAZEVA, V.I., kand. geograf. nauk

Two-year cycle of the formation dates of the summer stratospheric anticyclone. Meteor. i gidrol. no.6:35-36 Je '64 (MIRA 17:8)

1. TSentral'nyy institut prognozov.

LOMOVATSKIY, Yefim Grigor'evich; GROMOVA, Galina Mikhaylovna; VASHKWICH, Ye.Yu., red.; ASTAKHOVA, I.V., tekhn. red.

[Administration of state-controlled trade in the U.S.S.R.]
Upravlenie gosudarstvennoi vnutrennei torgovlei v SSSR. Moskva.
Gos. isd-vo iurid. lit-ry. 1957. 174 p. (MIRA 11:9)
(Trade regulation)

<u>L 27770-65</u> EPF(n)-2/EPR/EWP(k)/EWT(m)/EW P(b)/EWA(d)/EWP(e)/EWP(t) Pf-4/Pg-4/ Pu_4 IJP(c) AT/WH/MJW/JD/HW/JG s/2776/64/000/038/0029/0041 ACCESSION NR: AT5003399 AUTHOR: Vinograd, M. I.; Gromova, G. P.; Smirnova, A. V.; Krasnova, A. K. TITLE: A study of the reasons for the lowered plasticity in alloy EI437b at high temperatures SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 38, 1964. Novyye metody ispytaniy metallov; metallograficheskiye issledovaniya i mekhanicheskiye ispytaniya metallov (New methods in the analyses of metals; metallographic investigations, and mechanical analyses of metals), 29-41 TOPIC TAGS: alloy plasticity, tensile tost, alloy forgeability, metallographic examination, electronic microphotography, petrographic analysis, nonmetallic inclusion, yitreous inclusion, high temperature plasticity / alloy EI437B ABSTRACT: The reasons for the lowered plasticity of alloy EI437B under the influence of hot working were investigated by forgeability, impact and tensile strength tests within the 1200 - 1250 C temperature range. Conventional methods were employed for macro- and microstructural examinations of nonmetallic inclusions and the fracture surface was studied under the electron microscope. Ti-Card 1/3

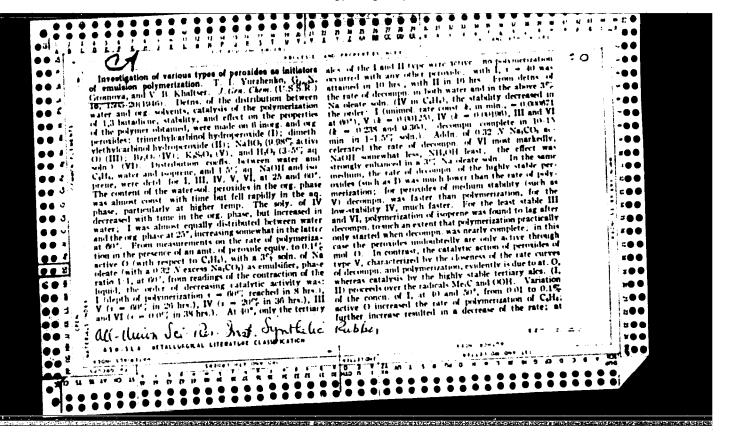
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ACCESSION NR: AT5003399

tanium nitride inclusions were revealed by thermal etching in all specimens. Petrographic analysis showed the occurrence of coarse vitreous inclusions in the form of a film with a thickness reaching 0.1 mm in low-plasticity specimens. These inclusions were found to be primarily composed of SiO2, their shape and location along interaxial sections and crystal boundaries being indicative of their origin during crystallization when the excess silicon monoxide was separated from the solution. The crystal boundaries in these specimens were thick as a result of the separation of various phases made visible by thermal etching at 650 - 700 C, which also rendered dendritic segregation more conspicuous. The diffraction pattern showed the formation of Cr5B6, Cr3B4 and TiNi3 along the grain boundaries accompanied by the frequent occurrence of vitreous admetallic inclusions. The results of room temperature impact tests varied widely from those of tests carried out at 1250 C: in the cold, brittle intercrystalline fractures without any trace of plastic deformation were identified. At high temperatures, border phases predominate and plastic deformation occurs with the formation of wavy lines. Specimens with an adequate plasticity displayed appreciably fewer areas of deformation and, therefore, the plasticity of the metal was higher. The authors suggest that investigations be continued and the possibility of developing methods for the production of metals with a predetermined plasticity be explored. A more de-

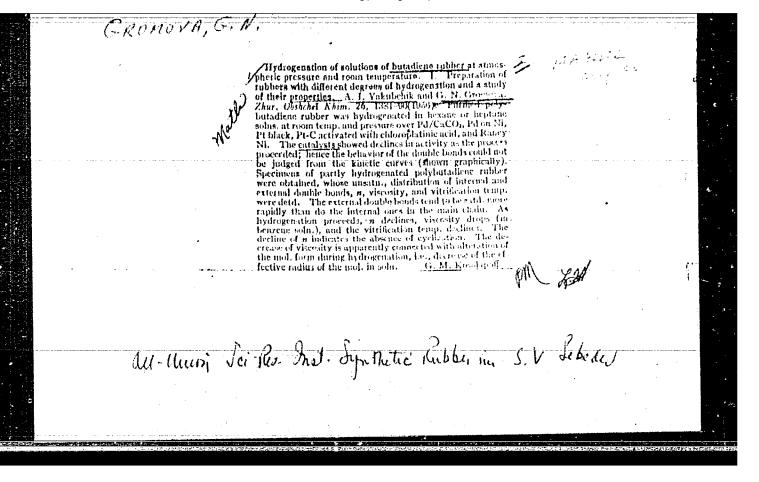
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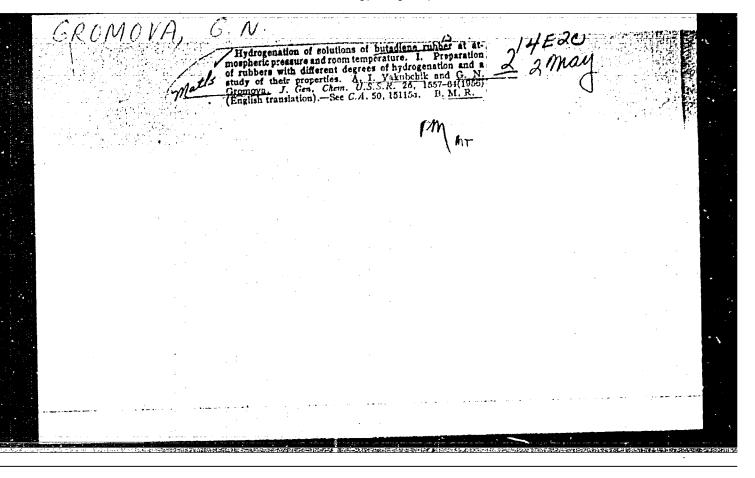
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mmended along with a comparative study of hot plasticity and exidation resistance	• 1 Fg	
The petrographic analysis was carried out by A. G. Ryl'nikova and S. B. Lebedeva	i	
Title periodical and has W. V. Vacarabina and S. R. Manlenkov.	,	
the x-ray spectroscopy was carried out by T. V. Yegorshina and S. B. Haslenkov,	1. 73 -	
thermal destruction was carried out in a device developed under the direction of		
B. H. Ovsyannikov (Bach. Tech. Sci.); I. V. Kikhnova, L. A. Volkova, and N. F.	1 1	
B. H. OVSYMMIROV (Bach) Access and Leading		
Poplavskaya also took part in the work." Orig. art. has: 23 figures and 1 table		
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ASSOCIATION: Tsentral nyy nauchno-issledovatel skiy institut chernoy metallurgii	. 4	
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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702





B-9

Category: USSR / Physical Chemistry - Kinetics. Combustion. Explosives.

Topochemistry. Catalysis.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30066

Author : Yakubchik A. I., Gromova G. N.

: not given Inst

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Card

GALMOND CON.

: Hydrogenation of Divinyl Rubber Solutions at Atmospheric Pressure and Room Temperature. II. Effect of the Nature of the Solvent on Title

Process of Catalytic Hydrogenation of an Unsaturated Compound over

a Palladium on Calcium Carbonate Catalyst.

Orig Pub: Zh. obshch. khimii, 1956, 26, No 6, 1626-1628

Abstract: Hydrogenation of ally. alcohol (I) over a Pd/CaCO catalyst (C)

was used to elucidate the effect of the nature of the solvent on rate and extent of hydrogenation. In C.H OH and n-C.H, (II) I is hydrogenated to the extent of 87%, in iso-C H, OH to 52%, In 2,2-dimethyl-dioxane-1,5 (III) to 65%, in (C.H.-) 0 to 95%, in benzene no hydrogenation takes place. Hydrogenation of divinyl

-28-

Category: USSR / Physical Chemistry - Kinetics. Combustion.

Explosives. Topochemistry. Catalysis

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 3066

rubber (IV) was carried out over a C in solution of III, and samples of hydrogenated rubber (V) insoluble in III were obtained. Properties of V, obtained over a C in III, are analogous to properties of V previously obtained, with the same C, in II. Selective hydrogenation of external double bonds of IV on hydrogenation in III is more clearly manifested than on hydrogenation in II. Part I, see RZhKhim, 1957, 27071.

card : 2/2

-29-

YAKUBCHIK, A.I.; SUBBOTIN, S.A.; GROMOVA, G.N.

Effect of hydrogenation on the characteristics of rubbers.

Kauch. i rez. 16 no.7:12-16 Jl '57. (MIRA 10:10)

1. Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva.

(Rubber) (Hydrogenation)

L 17561-65 EWT(m)/EFF(c)/EWP(j)/EWP(t)/EWP(b) Pc-4/Fr-4 IJP(c)/ASD(p)-3/ACCESSION NR: AP4049780 RAEM(1) JD/RM S/0138/64/000/011/0001/0004

AUTHOR: Piotrovskiy, K. B.; Gromova, G. N.

TITLE: Passivation of the action of copper and iron compounds during the oxidative destruction of oil-filled, butadiene-styrene rubbers,

SOURCE: Kauchuk i rezina, no. 11, 1964, 1-4

TOPIC TAGS: butadiene styrene rubber, oil filled rubber, thermal aging, synthetic rubber, rubber aging, aging catalyst, copper compound, iron compound, antioxidant

ABSTRACT: An investigation was made of the relationship between the content of copper and iron in butadiene-styrene, oil-filled rubber SKS-30 ARKM-27 and its stability. In addition, the amount of deactivator necessary to passivate the catalytic action of the metalswas extablished. The stability of 50-micron-thick rubber films was evaluated from the change in viscosity during the induction period during oxidation with oxygen at 120C and also after different periods of aging in air at 100C. The change in viscosity of the rubber was calculated from

was calculated from $K_{ind.} = \frac{\Delta[\pi]}{\tau} \times 10^4$ where $K_{ind.}$ is the change in viscosity during the induction period of oxidation; $\Delta[\pi]$ is

Cord 1/2

L 17561-65

ACCESSION NR: AP4049780

the change in characteristic viscosity at the end of the induction period, and is the length of the induction period in min. $[\eta]$ was calculated from data on the relative viscosity of a 0.08% benzene solution at 25C from $[\eta]=2.3$ lg n/c, where η is the relative viscosity of the benzene solution of the rubber and c is the concentration of the polymer in solution. The stability of the rubber was characterized by means of K which is the ratio of the viscosity of the rubber after heating to the viscosity of the original rubber. The stability of the rubber drops sharply with an increase in the copper content to 0.0016%; further increase to 0.01% leads to an insignificant increase in rate of oxidation of the polymer. Iron compounds have a noticeably smaller catalytic action on the oxidation of the polymer. The joint presence of both metals in the polymer increases their separate catalytic action somewhat. The catalytic action of the metals can be passivated by the addition of diphenylparaphenylenediamine, isopropylphenylparaphenylenediamine, parahydroxyphenyl- ρ -napthtylamine or mercaptobenzimidazole in amounts of 0.25-0.50% of the rubber. Orig. art. has: 3 tables, 2 figures and 2 formulas.

ASSOCIATION: Vsesoyuzny*y nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute for Synthetic Rubber)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 001

OTHER: 005

Card 2/2

VINOGRAD, M.I.; GROMOVA, G.P.; Prinimali uchastiye: LIKHMOVA, I.V.; SMIRHOV, Yu.I.; RASKOVA, A.F.; PROSHKINA, M.F.

Investigating inclusions in UlOA steel with a varying degree of plasticity. Stal' 22 no.9:342-845 S '62. (MIRA 15:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

(Steel--Impurities)
(Metals at high temperature)

VINOGRAD, M.I.; GROMOVA, G.P.; RYL'NIKOVA, A.G.; SMIRNOVA, A.V.

Methods of investigating inclusions in smelting baths with varying plasticity at high temperatures. Sbor. trud. TSNIICHM no.24: 261-278 *62. (MIRA 15:6) (Steel--Inclusions) (Metals at high temperatures)

S/776/62/000/024/003/007 E111/E135

AUTHORS: Vinograd, M.I., and Gromova, G.P.

TITLE: Change in the quantity and nature of inclusions in

type 1 x 18 m 9T (1Kh18N9T) steel during melting

SOURCE: Moscow. Tsentral'nyy nauchno-issiedovatel'skiy institut

chernoy metallurgii. Shornik trudov, no. 24, 1902.

Novyye metody ispytaniy metallov. 301-307

TEXT: The quality of type 1Kh18N9T steel improved with oxygen lancing of the bath. There was considerable contamination with titanium-nitride inclusions; therefore an investigation had to be made of the behaviour of inclusions during melting. Melting practice was the normal for this steel. 1-1.j kg samples were taken at the following stages: after complete melt-down (with oxygen), after oxygen lancing, after addition of first portion of deoxidizing mixture (silicochrome, ferrosilicon, silicocalcium and aluminium), before addition of ferrochrome, after melting of ferrochrome and addition of further portion of deoxidizing mixture, after addition of ferrotitanium and slag mixture with silicocalcium. The inclusion estimation was carried Card 1/2

Change in the quantity and nature ... \$/776/62/000/624/003/007

out by a metallographic method using a magnification of \$350. The work showed that after oxygen lancing of the bath nitride inclusions are absent, appearing again after addition of terrotitanium. Sulphide inclusions vary little during melting, but decrease greatly after addition of terrotitanium. The nature of the oxide inclusions changes greatly during melting; the chromites and silicates of iron first formed change into glassy silicates after addition of the deoxidizing mixture; some of these then leave the Bath whilst the remaining glasses change into titanium oxides. There are b figures and 1 table.

Card 2/2

VINOGRAD, M.I.; GROMOVA, G.P.

Effect of inclusions on the plasticity of steel at high temperatures.

Sbor. trud. TSNIICHM no.32:5-21 '63. (MIRA 16:12)

GROMOVA, G.P.; ZHURENKOV, P.M.; LIKHNOVA, I.V.

Revealing the primary structure of steel by the color metallography method. Sbor. trud. TSNIICHM no.32:100-102 '63. (MIRA 16:12)

KOROLEV, N.V.; FAYVILEVICH, G.A.; GROMOVA, G.P.; LEMEDEVA, S.B.

Investigating nonmetallic inclusions by the microspectral method.
Shor. trud president no.32:138-141 '63. (MIRA 16:12)

MJW/JD/HW/JG AFWL/ASD(m)-3/SSD/RAEM(t) EWI (m)/EWP(q)/EWP(h) Pad L 7036-65 8/0032/64/000/005/0571/0573 ACCESSION NR: AP4035088 AUTHORS: Smirnova, A. V.; Krasnova, A. K.; Gromova, G. P.; Vinograd, M. I. TITLE: Electron microscopic investigation of cracks in cast alloy EI437B SOURCE: Zavodskaya laboratoriya, no. 5, 1964, 571-573 TOPIC TAGS: E1437B cast alloy, KhM77TYuR alloy, phase structure, fractography, surface property, metal grain structure 18 ABSTRACT: The method used by the authors permits simultaneous study of relief on fractures and the phase composition of particles disposed on the fracture surface. This method, furnishing a single-stage carbon print or film, was described in a previous paper by A. V. Smirnova and G. A. Kokorin (Zavodskaya laboratoriya, XXIV, 12, 1446, 1957). The prints were separated from the cracks by an electrolytic solution of a layer of metal in 10% solution of nitric acid in methyl alcohol, at low current density. This permitted relatively large pieces of the film to be removed, carrying with them segregated particles of the different phases. To remove the particles themselves, the film was washed in 10% H2SO4, which dissolved the oxide film as well. The surface structure of the cracks was studied with no additional etching. Samples were broken by the blow of a hammer at room temperature Card 1/2

L 7036-65

ACCESSION NR: AP4035088

(and also at 1250C) and placed immediately in a vacuum device for plating with the carbon film. For comparison the surface was then etched and studied again. It was found that segregations of chromium boride accumulated at crystal boundaries, especially between dendrite axes. Particles of Y'-phase, Ni₂(Ti,Al) were much less common at the crystal boundaries. Small centers of fracturing were observed about the finely disseminated Y'-phase, and large, greatly extended edges were found in places where single or grouped inclusions of the boride phase were found, or where nonmetallic inclusions were present. Where the primary foci of fracturing were small, the lines of deformation were more nearly rectilinear than where the primary foci were coarse. The nature of the fracturing depends on the nature, size, number, table.

ASSOCIATION: Tsentral'ny*y nauchno-issledovatel'skiy institut chernoy metallurgii im. I. P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy)

SUBMITTED: 00

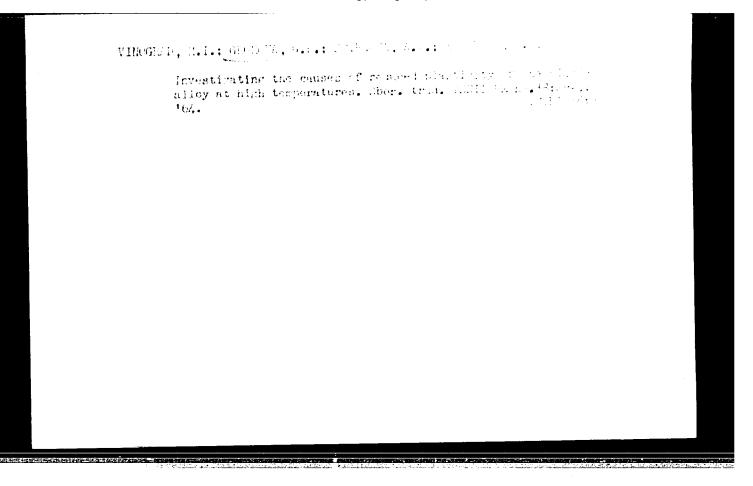
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Card 2/2

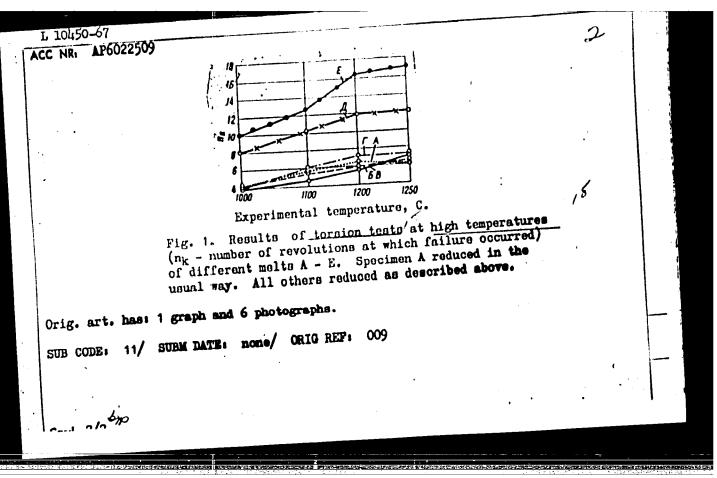


VINOGRAD, M.I.; GROMOVA, G.P.; YEGORSHINA, T.V.

Using X-ray microspectroscopy to investigate the composition of nonmetallic inclusions. Sbor. trud. TSNIICHM no.38:112-114

'64. (MIRA 18:3)

	1, 10/150-67 E-T(m)/E-T(t)/E-T 1JF(c) JD/JQ SOURCE CODE: UR/0133/66/000/004/0355/0358 SOURCE CODE: UR/0133/66/000/004/0355/0358
ĺ	ACC NRI AP6022509
	ACC NRI AP6022509 AUTHORS: Vinograd, M. I.; Gnuchev, S. M.; Gromova, G. P.; Smirnova, A. V.; Ryl'nikova, A. G.; Osmovin, V. A.; Krasnova, A. K.; Likhnova, I. V.; Yegorshina, T. V.
٠٠.	ORG: none TITLE: Nonmetallic inclusions in melts of steel O8Kh20N10G6 exhibiting different hot
	technological plants
	SOURCE: Stal', no. 4, 1966, 355-358 TOPIC TAGS: alloy steel, metallurgic research, aluminum, cerium / O8Kh2ON1OG6 alloy
	TOPIC TAGS: alloy steel, metalinigio
	ABSTRACT: The effect of aluminum and rare earth elements (mainly cerium) on the technological plasticity of steel O8Kh2ON1OG6 was investigated. The investigation technological plasticity of steel O8Kh2ON1OG6 was investigated. The investigation supplements the results of V. A. Osnovin and S. M. Gnuchev (Byulleten' TsIINChM, 1964, supplements the results of V. A. Osnovin and S. M. Gnuchev (Byulleten' TsIINChM, 1964, supplements the results of V. A. Osnovin and S. M. Gnuchev (Byulleten' TsIINChM, 1964, supplements the increase was determined as a No. 6). The microstructure and twisting strength of the specimens was determined as a No. 6). The microstructure and nature of the reducing agent (see Fig. 1). It was function of the temperature and nature of the reducing agent metals (0.152.0% on the found that addition of 1.52.0 kg/ton of Al and rare earth metals (0.152.0% on the lasts of Ce) to steel O8Kh2ON1OG6 leads to a considerable increase in the high basis of Ce) to steel O8Kh2ON1OG6 leads to a considerable increase in the high temperature plasticity of the latter. S. B. Lebedova, I. A. Prokof'yeva, and L. I.
	temperature plasticity of the interpretation of the experimental work. Volkova participated in the experimental work.
•	(DC: 669:17:070:700)
	Card 1/2



GROMOVA, G. V. Cand Med Sci -- (diss) "Certain problems of the hemodynamics of the lesser circulation studied during catheterization of patients with chronic suppurative processes in the lungs and these effected with mitral crific." Mos, 1959. 15 pp including cover (First Mos Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, 50-59, 129)

-61-

MURAY'YEV, H.V.; ZIOCHEVSKIY, P.N.; GROHOYA, G.Y.

Electrocardiographic data on functional changes of the heart during cathetarisation of the right heart and the pulmonary artery. Teraparkh. 31 no.2:22-29 F 159. (MIRA 12:1)

l. Iz kafedry obshchey khirurgii (zav. - prof. V.I. Struchkov) lechebnogo fakul'teta i filiala (rukovoditel' - prof. B.B. Kogan) kafedry gospital'noy terapii (sav. - deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sachenova
na base klinicheskoy bol'nitsy No.23 imeni Nedsantrud.

(CATHETERIZATION, CARDIAC.

right heart & pulm. artery. ECG changes (Rus))

in catheterisation of right heart & pulm. artery (Rus))

MURAVIYEV, M.V.; RYZHKOV, Ye.V.; GROMOVA, G.V. (Moskva)

Certain aspects of pulmonary circulation in chronic suppurative processes in the lungs. Klin.med. 38 no.10:97=105 0 460.

(MIRA 13:11)

1. Iz kafedry obshchey khirurgii (zav. - prof. V.I. Struchkov)
lechebnogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M. Sechenova i morfologicheskoy laboratorii
Deystvitel'nogo chlena AMN SSSR I.V. Davydovskogo na baze klinicheskoy bol'nitsy No.23 imeni Medsantrud (glavnyy vrach A.P.
Timofeyeva).

(PULMONARY ARTERY) (LUNGS-DISEASES)

MURAV'IEV, M.V.; GROMOVA, G.V.; VOL'-EPSHTEYN, G.L.

Some data on pulmonary circulation changes in chronic suppurative processes in the lung. Grud. khir. 3 no.2:68-72 '61.

(MIRA 14:4)

(LUNGS-DISEASES) (PULMONARY ARTERY)

GROMOVA, G.V.

Nature of the change in pressure of the lesser blood circulation in patients with chronic suppurative processes in the lungs.

Ehirurgiia 37 no.1:75-81 Ja '61. (MIRA 14:2)

1. Iz kafedry obshchey khirurgii (mav. - prof. V.I. Struchkov)
lechebnogo fakuliteta I Moskovskogo ordena Lenina meditsinskogo
instituta imeni I.M. Sechenova.

(LUNGS-DISEASES) (BLOOD PRESSURE)

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Glusker, R.v.; GROMOVA, I.I.

Glinicopathoanatomical characteristics of a case of strongyloidosis.

Med.paraz. i paraz.bol. 25 no.4:305-308 O-D '56. (MIRA 10:1)

1. It terapevticheskogo otdeleniya (zav. Ye.S.Brusilovskiy) i patologo-
anatomicheskogo otdeleniya (sav. M.V.Aref'yeva, komsul'tent - prof.

M.K.Dal') Doroshnoy bol'nitsy No. 2 Yugo-zapadnoy zheleznoi dorogi
(nachal'nik bol'nitsy G.I.Zubkov)

(STROMOYLOIDIASIS. case reports.

clin. aspects & histopathol. (Rus))
```

YAKOVLEVA,A.V.; GROMOVA,I.I.; PROTAS,I.R.

A vacuum fluorite spectrograph, photographic material for it and some data on investigations. Isv. All SSSR. Ser. fis. 19 no.1:84-86 Ja-F'55.

(Spectrum analysis) (Spectrometer)

THE MIC VIII, I.A.

USSE / Physical Chemistry. Molecule. Chemical Bond.

B-4

Abs Jour

: Ref Zhur - Khimiya, No 8, 1967, 25750

Author

: I.I. Gromova

Title

: To The Question of Photodissociation of Nitrogen.

Orig Pub

1 Optika i spektroskopiya, 1956, 1, No 3, 433-434.

Abstract

The curves of potential energy at the states $(\xi_{g}, \kappa) = (1 + 3) = 1$ and $(\xi_{g}, \kappa) = 1 = 1$. The number of the N2 molecule, the dissociation energy of which had been assumed to be equal to 9.764 ev, were plotted with Goulbert-Hirschfelder approximation. It was found that the curve of $(A, \xi_{g}, \kappa) = 1 = 1$ and $(A, \xi_{g}, \kappa) = 1 = 1$ and that the crossing of the state $(A, \xi_{g}, \kappa) = 1 = 1$ and $(A, \xi_{g}, \kappa) = 1$ and that the crossing of the state $(A, \xi_{g}, \kappa) = 1$ and $(A, \xi_{g}, \kappa) = 1$ and that the dissociation level of $(A, \xi_{g}, \kappa) = 1$ at the place coinciding with the dissociation level of $(A, \xi_{g}, \kappa) = 1$ at the place coinciding with theoretical forecasts (Geydon A. Dissociation Energy and Spectra of Diatomic Molecules 1949), as well as with experimental data (Douglas A., Herzberg G., Canad. J.

Card

: 1/2

- 10 -

USSR / Physical Chemistry. Molecule. Chemical Bond.

B-4

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 25750

Abstract

: Phys., 1951, 29, 294). It is supposed that molecules of N₂ getting into the region of curve crossing on a 7, levels at the absorption will be dissociated along A² curve into two normal atoms of N in 4S state.

Carc.

: 2/2

- 11 -

COUMNIA TT			_	
GRUMOVA, I.I.	PRIKHOT'KO, A F			
	28(7) b) PHASE I BOOK EXPLOITATION SOV/1365		1	
	- L'voy. Universytet	_		
	Materialy X Vacacyurnogo sovashchaniya po spektroskopii. Molekulyarmaya spektroskopiya (Papers of the 10th All- Conference on Spectroscopy. Vol. 1: Molecular Spectro [Livoy] Ind-vo Livovskogo univ-ta, 1957. 499 p. 8,000 printed. (Series: Its: Fisychnyy sbirnyk, vpp. 3/8/	scopy) copies)		
	Additional Sponsoring Agency: Akademiya nauk SSSR. Komi spektroskopti. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, Editorial Boardi Lavikere, G.S., Academician (Rasp. Editorial Boardi Lavikere, G.S., Academician (Rasp. Editorial Boardi Lavikere, Orthysical and Kathematical Schenkenty, V.A., Doctor of Physical and Mathematical Fabrikanty, V.A., Doctor of Physical and Mathematical Kornitakin, V.A., Candidate of Thysical and Editorial Sciences, Ray Candidate of Physical and Mathematical Sciences, Minical Candidate of Physical and Mathematical Sciences, and A. Te., Candidate of Physical and Mathematical Sciences, and A. Te., Candidate of Physical and Mathematical Sciences,	d., Deceased), lences, Sciences, ciences, skiy, S.M., syskiy, L.K., yanchuk, V.S., llauberman,	And the second s	
	Card 1/30		* *	
	Peatin, Yu. A., Y.M. Tatevskiy, and B.A. Fordyshev. Study of Rotational Isomeriem by Means of Spectroscopy	300		
	Kevalev, I.F. Vibrational Spectra and Fotential Energy Constants of Monosilane and Its Deutero- derivatives	304		
	Veyts, I.V., and L.V. Ourvich. Energy Dissociation and Basic Electron States of Alkali Earth Metal Oxides	305	i !	
	Yakovlevs, A.V., and I.I. Gromova. Mitrogen Fluorescence Under the Influence of Emort-wave Radiation	306	:	
i i	Dianov-Klokov, V.I. Absorption Spectra of Liquid Oxygen	370		
	Reronksvich, V.P. Experimental Determination of Coefficients of the Dispersion Formula for Normal Air			
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AUTHOR:

dromova, I.I.

51-4-5-21/29

TITLE:

New Lines in the Mo II Spectrum (Novyye limii v spektre Mo II)

PERIODICAL:

Optika i Spektroskopiya, 1958, Vol IV, Nr 5, pp 687-689 (USSR)

ALSTRACT:

A group of lines in the region 1700-1750 A was observed in the spectrum excited in a hollow cathode made from Mo sheet (Ref 1). These lines were ascribed to ionized Mo. This spectrum was recorded using a vacuum spectrograph with a diffraction grating of 1 m radius. The linear dispersion was 7.36 A/mm. Carbon and aluminium lines at 1560, 1656 and 1854 A were used as standards. The Mo lines reported on in the present paper could be excited only in pure argon (3 mm Hg pressure, 0.20-0.25 A current, 180-200 V voltago). If argon is replaced by helium or if argon contains some hydrogen or nitrogen these lines disappear. It is suggested that the 1700-1750 A group of lines of Mo II are due to charge-exchange in collisions of Mo atoms with argon ions. The wavelengths and intensities of

Card 1/2

New Lines in the Mo II Spectrum

51-4-5-21/29

22 lines observed are given in Table 1, where the last column gives Lang's wavelengths (Ref 3). Interpretation of these lines is given in Tables 2-4. The author thanks V.K. Prokof'yev and A.V. Yakovleva for their criticism. There are 4 tables and 7 references, 4 of which are American, 1 Soviet, 1 English and 1 translation of Western work into Russian.

ASSOCIATION:

Gosudarstvennyy epticheskiy institut im. S.I. Vavilova (State Optical Institute imeni S.I. Vavilov)

SUBMITTED:

October 2, 1957

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Argon - Application 2. Atoms - Collision

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000517020

SCY/51-7-1-25/27

24(4) AUTHORS:

Gromova, I.I. and Kulikov, S.A.

TITLE:

Effect of the Current Strength on the Intensity of the Hydrogen Spectrum in the Region 2500-1200 A (Vliyaniye sily toka na intensivnost' vodorodnogo spektra v oblasti 1500-1200 Å)

PBRIODICAL:Optika i spektroskopiya, 1959, Vol 7, Nr 1, pp 130-131 (USSR)

ABSTRACT: The intensity of emission by various hydrogen lamps was measured by means of a vacuum monochromator SF-65. A photomultiplier FEU-19 was used as the receiver and the photomultiplier current was amplified and measured with a microammeter. These measurements were made on 350-400 W high-voltage water-cooled hydrogen lamps with and without a window of lithium fluoride. These lamps had capillaries of 4 mm diameter and 100 mm length filled with hydrogen at 3-4 mm Hg pressure in the case of closed lamps and 2-2.5 mm to the case of lamps without windows. The current strength ras varied from 0.02 to 0.4 A. In the lamp without a window the emission intensity was measured for wavelengths from 1216 to 2558 A and the results are shown in Fig]. It can be seen in Fig 1 that only the intensity of smission at 1216 Å (atomic hydrogen line La) is a linear function of the parent strength; the remaining curves are sublinear. Similar results were obtained for the

Card 1/2

3 OV/51-7-1-25/27

Effect of the Current Strength on the Intensity of the Hydrogen Spectrum in the Region 2500-1200 $\hbox{\AA}$

lamp with a window of lithium flucrids (Fig. 2). Intensity measurements were also made on a low-voltage hydrogen lamp GCI. This lamp was a point source, it had an exide cathede and it worked without any cooling. Its power was of the order of 300 W. The current strength was varied from 2.6 to 5 A. The results of measurements between 1250 and 2558 A are shown in Fig 3; all curves are sublinear. The emission intensity of the high-voltage lamp with a lithium fluoride window was found to be practically independent of hydrogen pressure between zero and 50 mm Hg (Fig 4). There are 4 figures and 3 references, 1 of which is Soviet, 1 English and 1 German.

SUBMITTED: February 5, 1959

Card 2/2

33161 \$/120/61/000/006/035/041 E194/E485

24.5600 AUTHORS:

Goncharov, I.N., Gromova, I.I., Neganov, B.S.,

Parfenov, L.B.

TITLE: An electromagnet with super conducting winding

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 142-143

The magnet described was required to control the "thermal keys" in a cyclic refrigerator equipment used to produce extremely low temperatures by the adiabatic demagnetization of a para-The coil was made of lead, which has a critical magnetic salt. field of about 500 cersteds at a temperature of 4.2°K and 800 oersteds at 1.5°K, the critical current for the wire of section 0.5 x 1.5 mm was not less than 10 A at 4.2 °K. were insulated with capacitor paper treated with adhesive grade For convenience of accommodating the "thermal key" $\mathbb{B}\Phi$ -2 (BF-2). between the poles, the magnet was made cylindrical, the pole diameter was 8 mm and the pole tip diameter 14 mm, the gap length For example, with 700 turns the field strength at which super-conductivity broke down to give a p.d. of 0.05 mV was 2800 oersteds at 1.5°K with a critical current of 1.2 A.

Card 1/2

33161 S/120/61/000/006/035/041 E194/E485

An electromagnet with super ...

current is required to flow for several hours, heat evolved in the connections is troublesome and so a circuit was devised to maintain the gap field constant with supply disconnected. The coil was shorted by turns of lead, wound on a metal core in contact with liquid helium, on which a heating coil was also wound. heater was switched on, the lead turns were superconducting and current continued to flow through the magnet coil even with supply If it is required to connect the supply, it is switched off. first switched on then, as the heater current is increased, the lead coil becomes progressively less super-conducting and supply voltage is applied to the magnet coil. Acknowledgments are expressed to V.M.Drobin for assistance. There are 3 figures and The two 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. references to English language publications read as follows: Ref.l: S.H.Autler, Rev. Scient. Instrum. v.31, 1960, 369; Ref.2: D.R. Young, Progress in Cryogenics, v.1, 1959, 3.

ASSOCIATION: Obmyedinennyy institut yadernykh issledovaniy
(Joint Institute for Nuclear Research)

SUBMITTED: April 3, 1961

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

L 18137-63 EWT(1)/BDS/ES(w)-2 AFFIC/ASD/ESD-3/APGC/IJP(C)/SSD P1-4/Po-4/Pab-4/Pq-4 GW

ACCESSION NR: AP3004509

5/0048/63/027/008/1097/1101

AUTHOR: Gromova, I.I.; Yakovleva, A.V.

TITLE: Step excitation and <u>ionization</u> of nitrogen Report presented at the <u>Second All-Union Conference on the Physics of Electronic and Atomic Collisions</u> held in Uzhgorod 2-9 Oct 1962/

SOURCE: AN SSSR, Izvestiya, ser.fiz., v.27, no.8, 1963, 1097-1101

TOPIC TAGS: fluorescence, N, atmospheric optics

AESTRACT: As was shown earlier (A.V.Yakovleva, Phys.Z.USSR,9,547,1936 and Izv.AN SSSR,4,59,1940, and I.I.Gromova and A.V.Yakovleva, Materialy* X soveshchaniya po spektroskopii,1,308,1957), UV irradiation of nitrogen by the light of hydrogen discharge tube gives rise to fluorescence which consists of the bands due to the molecular ion $(B^2\Sigma_u^+ \to X^2\Sigma_d^+)$ and bands of the second positive system $(C^2\pi_u^- \to B^2\pi)$; in both cases the highest intensity is exhibited by the 0'0" band. Excitation of the $C^3\pi_u^-$ level requires 11 eV; ionization and excitation to the $B^2\Sigma_u^+$ level requires an energy of 18.7 eV, yet the supplied energy does not exceed 9.7 eV, which indicates that a step excitation mechanism must be involved. In view of the fact that inter-

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ACCESSION NR: AP3004509

action of nitrogen with short wavelength radiation is of interest from the standpoint of high-altitude atmospheric physics, it was deemed dos' rable to investigate the fluorescence of nitrogen at low pressures (0.1 to 3 mm Hg) and with variation in pressure (0.005 mm Hg to 1 atm). The radiation source in the experiments was a hydrogen tube with a fluorite window transparent to 1250 %. Tubes of this type yield a multiple H2 line spectrum in the 1200 to 2079 8 region. The fluorescence was excited in a glass vessel to which the tube was optically coupled and photographed or detected by a photomultiplier, directly or via a spectrograph, at right angles to the direction of the incident radiation. Under the given experimental conditions it was impossible to eliminate all oxygen from the vessel in order to exclude its influence on the fluorescence. The luminoscence intensity in a vessel with the valve to the vacuum system closed remains coastant only in the case of w weak excitation; at higher intensities the luminescence builds up to a maximum with time. At very low pressures the ion bands predominate, but with increasing pressure are quickly quenched. The bands of the second positive group appear at about 0.03 mm Eg and exhibit two maxima with increasing pressure (one at 0.2, the other at 3-10 mm Hg). The variation in intensity of fluorescence with the excitation intensity (tube current) exhibits a square-law increase with increasing excitation intensity, but the curve obtained for decreasing intensity differs radically from

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L 18137-63

ACCESSION NR: AP3004509

the initial curve (see Figure in the Enclosure). This anomalous behavior is tentatively attributed to formation of metastable molecules on the walls of the vessel. Orig.art.has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 26Aug63

ENCL: 01

SUB CODE: PH, AS

NO REF SOV: 004

WIHER: 008

Card^{3/4}

L 25389-65 EVT(m) IJP(c)

ACCESSION NR: AP5002144

\$/0120/64/000/006/0039/0044

AUTHOR: Gromova, I. I.; Legar, F.; Nikanorov, V. I.; Peter, G.; Pisarev, A. F.

TITLE: Characteristics of a multilayer spark-discharge chamber with various

filling gases

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1964, 39-44

TOPIC TAGS: spark discharge chamber, multilayer spark chamber

ABSTRACT: The results of an experimental investigation of the characteristics of a 27-electrode spark chamber filled with Ne+0.4% A or He or Ne+20% He are reported. The effects of the clearing field, pulse delay, gas pressure, and gas type upon the efficiency of recording charged particles were studied. It was found that the efficiency vs. pulse-delay curves have no gradually falling-off "tails." The curves for Ne+0.4% A and Ne+20% He drop steeply, which fact is favorable

Card 1/2

L 25389-65

ACCESSION NR: AP5002144

for using these gas mixtures in the chambers operating with high background noise. The storage-time vs. clearing-field curves have a minimum at 0.3-0.4 microsec. An increase in the efficiency and storage time with increasing the clearing-field amplitude is most probably due to metastable states of basic-gas atoms which are formed by the drift energy of initial electrons in the clearing field. The spark chambers can operate efficiently at low gas pressures. The plateau length for the above gases is about 7-8 kv. Orig. art. has: 7 figures.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Nuclear Research Institute)

SUBMITTED: 03Oct63

ENGL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 002

Cord 2/2

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L 49017-65 EWT(1) Pi-4 IJP(c)

ACCESSION NR: AR5012281

UR/0058/65/000/003/D066/D066

SOURCE: Ref. zh. Fizika, Abs. 3D534

3

AUTHOR: Yakovleva, A. V.; Gromova, I. I.

B

TITLE: Wall fluorescene during recombination of nitrogen atoms

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR. vyp. 1, 1964, 591-596

TOPIC TAGS: nitrogen atom recombination, nitrogen fluorenscence, metastable nitrogen molecule

TRANSLATION: Hydrogen lamp lumination of nitrogen through a fluorite window results in fluorescence, consisting of primary negative and secondary positive systems. The energy input is insufficient for direct excitation of nitrogen at these levels. Tests showed that one of the elements of fluorescence excitation is atomic nitrogen which recombines on the wall with creation of metastable molecules in the state 5E_g +. After prolonged lumination of the vessel its walls lose the property to give off metastable molecules and fluorescence decays. Thus, there is bright wall fluorescence in the form of continuous radiation with a maximum near the red hydrogen line. In the background of this fluorescence an absorption

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L 49017-65 ACCESSION NR: AR5012281	0	-
 spectrum is observed which consists of narrow bands of various widths sities, without clear conformities corresponding to a molecular series spectrum carrier was not established.	and inten-	
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Card 2/2 77		

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

L 47080-65 EWI (m) IJP(c)

ACCESSION NR: AP5007026 S/0120/65/000/001/0064/0068 //

AUTHOR: Gromova, I. I.; Nikanorov, V. I.; Peter, G.; Pisarev, A. F.

TITLE: Investigation of the characteristics of discharge chambers filled with neon with various additions

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 64-68

TOPIC TAGS: discharge chamber, spark discharge chamber

ABSTRACT: Six 25 x 10 x 7-cm glass chambers with thin semitransparent stannic—oxide electrodes were tested. They were filled at 760 torr with neon with admix-tures of A, H₂O, C₂H₅OH, CH₄, and CCl₄. For the first experiment, all six chambers were filled with a standard mixture of 99.6% Ne and 0.4% A; their memory time was 16 µ sec. One of the chambers was left intact for 2 yrs, where-upon it was tested again: its memory time decreased to 5 µ sec, while its maximum angle of slope of discharge and the quality of tracks remained

Card 1/2

L 47080-65

ACCESSION NR: AP5007026

2

unchanged. Another chamber was used for studying the diffusion of initial electrons from the particle track. The remaining four chambers were used for investigating the effects of the above additions to the standard mixture. It was found that the introduction of 0.1% CH_4 results in a memory-time reduction from 16 to 1 μ sec; an addition of 3×10^{-6} % CCl_4 , from 16 to 1.6 μ sec. The addition of H_2O and C_2H_5OH does not improve the time characteristics. "The authors wish to thank A. A. Tyapkin for his useful advice and discussions about the development of discharge along the particle track." Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Nuclear

Research Institute)

SUBMITTED: 30Dec63

ENCL: 00

SUB CODE: NP

NO REF SOV: 003

OTHER: 003

Cord 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702(

ACC NR: AP6030148

EWT(1)

SOURCE CODE: UR/0120/66/000/004/0157/0160

AUTHOR: Gromova, I. I.; Peter, G.; Pisarev, A. F.

ORG: Joint Nuclear Research Institute, Dubna (Ob"yedinennyy institut yadernykh 42issledovaniy)

TITLE: Testing the models of gas-discharge image converters

SOURCE: Pribory 1 tekhnika eksperimenta, no. 4, 1966, 157-160

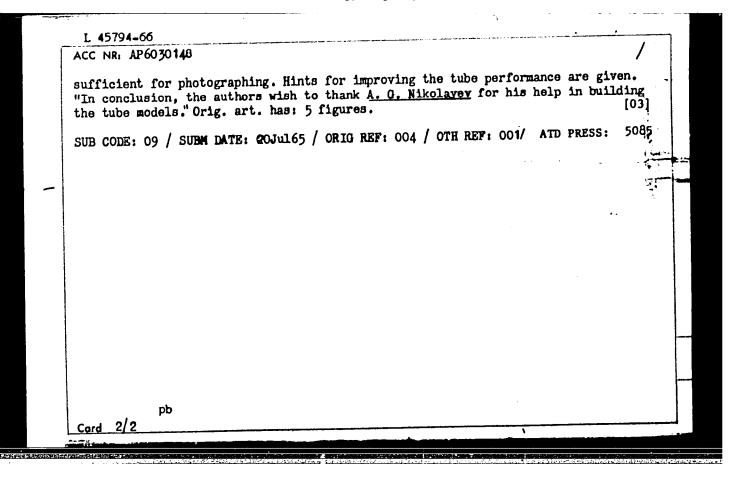
TOPIC TAGS: image converter, gas discharge

ABSTRACT: A principle of operation of a new gas-discharge image-converter tube was suggested by the authors in PTE, 1963, no. 4, 128. The present article reports the results of some studies of the sensitivity and operability of the photocathode in the presence of gas, of the passage of electrons through the metal screen, and of the definition of reproduced image. Plots of photocurrent vs. voltage for various neon pressures and of photocurrent vs. neon pressure show that the tube has acceptable sensitivity only at gas pressures under 1.3 km/m². Satisfactory grid through factor was obtained with a large-mesh grid in a tube filled with neon at 0.7 kn/m2 or lower pressure. Further experiments revealed that a single-stage tube cannot handle the spark-type image because of undesirable optical feedback. Models of two-stage tubes produced a visual slit image, whose intensity, however, was not

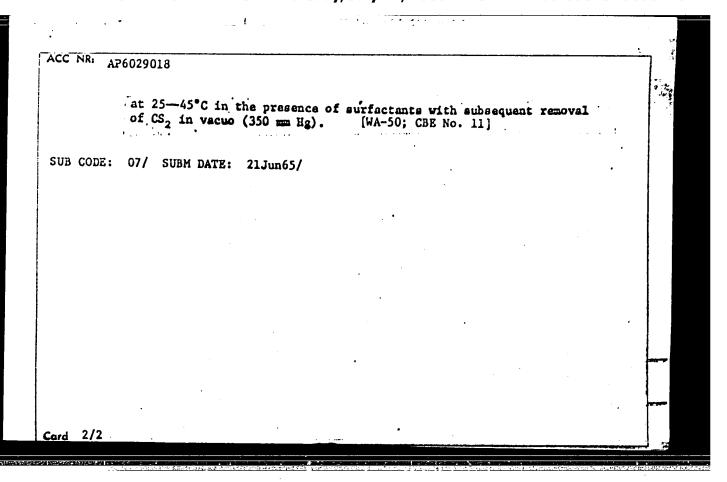
Card 1/2

L 45794-66

UDC: 621.383.001.4:621.383.6



ACC NR: AP6029018 SOURCE CODE: UR/0413/66/000/0	14/0021/0021
INVENTOR: Chalykh, S. N.; Kafarov, V. V.; Vigdorov, A. S.; Savost'yano Gromova, I. I.; Podgorbunskikh, M. T.; Kolesnikov, A. S.; Luferov, V. Y.	v, N. I.; 5
ORG: none	
TITLE: Preparation of salts of dithiocarbamic acid derivatives. Class 183735. [announced by Scientific Research Institute of Organic Intermed Dyestuffs (Nauchno-issledovatel skiy institut organicheskikh poluproduk krasiteley)]	TO CO UNG
SOURCE: Izobret prom obraz tov zn. no. 14, 1966, 21	
TOPIC TAGS: sodium dithiocarbamate, alkyl dithiocarbamate, dialkyl'dith carbamic acid, organic salt ABSTRACT: Usually, salts of dithiocarbamic acid derivatives of the gen	i
formula: (where R_1 and R_2 are CH_3 or C_2H_5 ; He is Na) are obtained by reaction of carbon disulfide with a solution of an amine in sence of alkalies. To improve the technological process and crease the yield and quality of the final product, the processaried out in dilute solutions of amines with a 5% excess	the the pre-
Card 1/2 UDC: 547_496.2.07	



OROMOVA, I.S.; YUSTOVA, Ye.W.

Production of a glass colophony scale. Trudy Inst.Kom.stand.,
mer i ism.prib. no.56:106-112 '61. (MIRA 15:12)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva. (Photometry)

DEMIKHOVSKAYA, S.Z.; VODZINSKIY, Yu.V.; YUSTOVA, Ye.N.; GROMOVA, I.S.;
POKROVSKAYA, G.V.

Standard specimens of the color of rosin. Gidroliz. i lesokhim. prom. 16 no.2:8-10 163. (MIRA 16:6)

- 1. TSentral'nyy mauchno-issledovatel'skiy i proyektnyy institut lesokhimicheskoy promyshlennosti (for Demikhovskaya, Vodzinskiy). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
- im. Mendeleyeva (for Yustova, Gromova, Pokrovskaya).
 (Gums and resins—Grading)
 (Color)

ZELENETSKIY, V.Yo. [Zelenets'kyi, V.IE.]; GROMOVA, I.S. [Bromova, I.S.]

Rare case of lymphogranulomatosis of the heart in an eight-year-old child. Ped. Akush. i gin. 24 no.6:30-31 162. (MIRA 17:4)

1. Kafedra pediatrii vrachebnogo i sanitarno-gigiyenicheskogo fakul'tetov (zaveduyushchiy - prof. R.Yu. Kol'ner) Kiyevskogo meditsinskogo instituta (rektor - dotsent V.D. Bratus') na baze Pervoy zheleznodorozhnoy bol'nitsy Yugo-Zapadnoy zheleznoy dorogi (nachal'nik - Z.Z. Bokhanovich [Bokhanovych, Z.Z.;).

GROMOVA, K.G.; IL'IN, V.S.

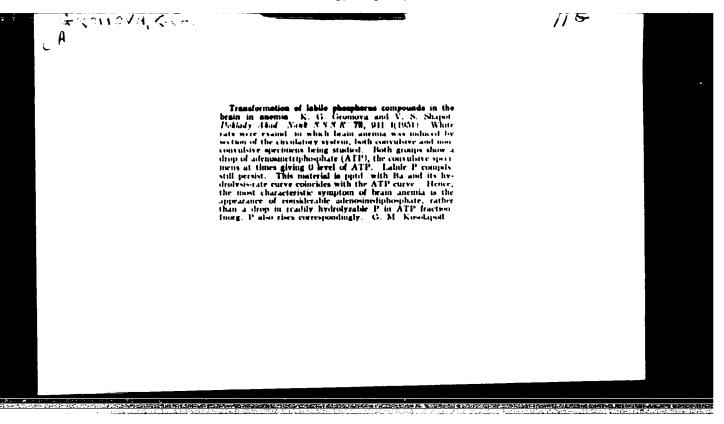
Identification of glucokinase in the adipose tissue of the epididymis of rat testicle and the stimulating effect of insulin on its synthesis. Biokhimia 30 no.4:752-758 Jl-Ag '65.

(MiRA 18.8)

1. Otdel biokhimii Instituta eksperimental'noy meditalny AMN SSSR, Leningrad.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702



GROMOVA, K.G.; KUBRITSKAYA, T.Ye.; PETROY, I.R.; SHAPOT, V.S.

Metabolism of labile phosphorus compounds in the brain in cerebral anemia during protective inhibition. Biokhimiia. Moskvu 17 no.1:13-24
Jan-Feb 1952. (CLML 24:5)

1. Department of Biochemistry, Institute of Experimental Medicine of the Academy of Medical Sciences USSE, Leningrad.

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SHAPOT, V.S.; PETROV, I.R.; GROMOVA, K.G.; KUDRITSKAYA, T.Ye.

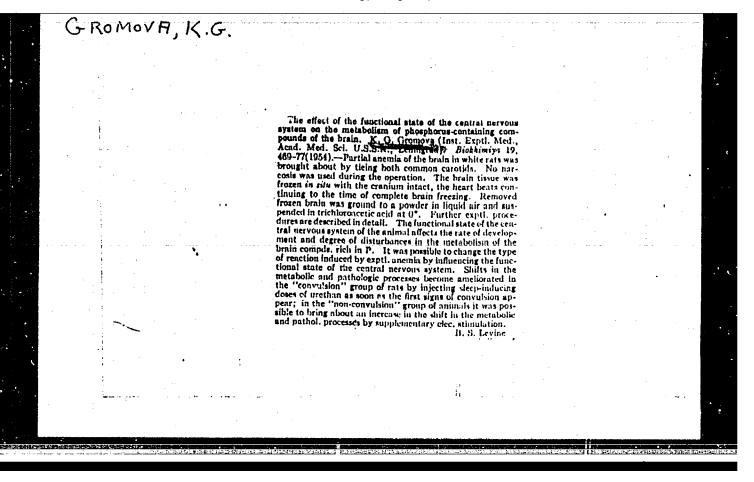
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1. Department of Biochemistry of the Institute of Experimental Medicine of the Academy of Medical Sciences USSR and the Department of Pathophysiology of Military Medical Academy imeni S. M. Kirov, Leningrad.

CROMOVA, K. C.

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SO: SUM 318, 23 Dec 1954



USSR / Human and Animal Physiology. Metabolism.

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Abs Jour: Ref Zhur-Biol., No 9, 1958, 41020.

Author : Gromova K. G.

Inst : Institute of Experimental Medicine. Academy of

Medical Sciences USSR, Leningrad.

Title : Changes of ATP Acid Content in the Organs of the

Starving Organism.

Orig Pub: Yezhegodnik. In-t eksperim. med. Akad. med. nauk

SSSR, 1955, L., 1956, 205-206.

Abstract: The true ATP content of extracts of the liver,

kidneys and myocardium of normally fed and starved rats and rabbits, as determined by the fermentation method, constituted from 51-63% of the total labile

Card 1/2

USSR / Human and Animai Physiology. metabolism.

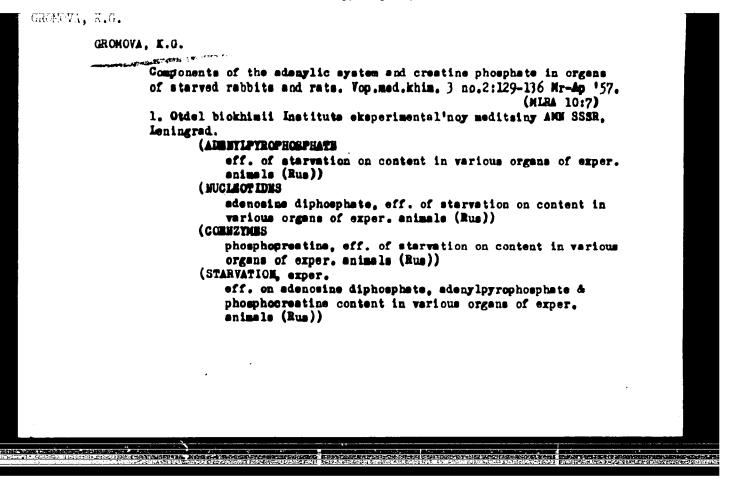
Abs Jour: Ref Zhur-Biol., No 9, 1958, 41020.

Abstract: tissue phosphate, determined by the chemical method. In rats, after a 3-4 day fast, true ATP decreased by 47% only in the liver, but remained unchanged in the myocardium and kidneys. In rabbits, after 10-12 days of fasting, ATP decreased slightly in all the investigated tissues and the value of labile phosphate remained unchanged. It is the opinion of the author that the lower ATP values in the liver of starving rats is related to the decrease in the liver of the intensity of oxidative phosphorylation.

-- A. A. Titayev.

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GROMOVA, K.G.; Prinimala uchastive POLYAKOVA, 1990. Effect of insulin on gluscom and frust on optake by coolet of fat tissue of the epididymis of cornel rate, branch rate with alloxan diabetes. Bicknimits of coord.100-1013 No.

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GROMOVA, K.G.

Utilization of fructose by fatty tissue of the epididymis of normal and starving rats and in the presence of insulin. Blokhimiia 30 no. 3:563-566 My-Je *65 (MIRA 19:1)

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DESNITSKIY, Vladimir Porfir'yevich [deceased]; Prinimali uchastiye:
KATUGIN, S.A.; GROMOVA, K.P., tekhnolog; DESNITSKAYA, T.K.;
SOKOLOV, A.N., dots., kand. tekhn. nauk, retsenzent;
LEVANDOVSKIY, S.N., inzh., red.; BORODULINA, I.A., red. izd-va; POL'SKAYA, R.G., tekhn. red.

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[Making alloyed steel castings for the manufacture of heavy electric machinery] Proizvodstvo legirovannykh stal'nykh otlivok dlia energomashinostroeniia. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1961. 196 p. (MIRA 15:1)

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MASHKOVICH, S.A.; GROMOVA, L.G. Some results of numerical pressure field forecasting by the use of the "Strela-3" electronic calculating machine. Trudy TSIP mo.106:61-64 '60. (MIRA 13:12)

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(Atmospheric pressure) (Blectronic calculating machines)

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PHASE I BOOK EXPLOITATION

SOV/2592

Moscow. Tsentral'nyy institut prognozov

- Voprosy dinamicheskoy meteorologii (Problems in Dynamic Meteorology) Moscow, Gidrometeoizdat, 1959. 69 p. (Series: Its Trudy, vyp. 86) Errata slip inserted. 900 copies printed.
- Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.
- Ed. (Title page): S. A. Mashkovich; Ed. (Inside book): L. V. Blinnikov; Tech. Ed.: I. M. Zarkh.
- PURPOSE: This issue of the Institute's Transactions is intended for specialists working in the field of dynamic and synoptic meteorology.
- COVERAGE: This collection of articles treat problems of short-range weather forecasting using the methods of dynamic meteorology. The use of an electronic computing machine "Pogoda" in short-range (36 hours forecasting of pressure fields at sea level and at 300 mb is described. The programming and coding system are discussed in some detail. The author concludes that the forecasting accuracy of the method he describes is on a par with

Card 1/2

Problems in Dynamic Meteorology (Cont.)	SOV/2592
corresponding statistical techniques used in non-Soviet countries.	References
TABLE OF CONTENTS:	
Belov, P. N. Short-Range Forecast of Pressure Fields by Using the Electromputer "Pogoda"	etronie
Mashkovich, S. A. Simplified Method for Integrating Vorticity Equation	-
Gromova, L. G., and S. A. Mashkovich. Certain Results and Numerical Forecasting of Baric Fields at Sea Level and in the Middle Troposphere	42
Dobryshman, Ye. M., and R. I. Nozadze. Relation Between the Pressure F and Wind in the Barotropic Atmosphere	49 ields
Belov, P. N. The Problem of Murnal Pressure Variations at Various	55
AVAILABLE: Library of Congress	63
Card 2/2	MM/mg 11-3-59

GROMOVA, L.G.

"Decentation" method for obtaining high-melting ceresin. Proisv.
smas.mat. no.4:35-39 '57. (MIRA 11r9)

1.Pervyy Moskovskiy neftemelosavod.

(Geresin)

GRENOVA, L. Gr

15(5), 25(5)

PHASE I BOOK EXPLOITATION

501/3492

Shekhoyan, Lyudmila Sergeyevna and Lidiya Grigor'yevna Gromova

Proizvodstvo konsistentnykh smazok (Grease Manufacturing) Moscow, Gostoptekhizdat, 1959. 143 p. 4,150 copies printed.

Exec. Ed.: K. F. Kleymenova; Tech Ed.: E. A. Mukhina.

PURPOSE: This is a textbook intended for improving the level of skill of technical personnel of grease manufacturing plants.

COVERACE: The textbook deals with grease manufacturing methods. Basic principles of organic chemistry are reviewed along with descriptions of various types of greases, their utilization, and equipment used for their production. Methods for determining physicochemical properties of greases are described, and ways of improving the quality of grease with the aid of various additives are indicated. Brief information on crude stock employed for grease production as well as some information on grease components, thickening agents, fillers and grease production techniques are given. Various operations of grease manufacturing plants are described along with chemical reactions taking place in the process of grease production. Safety techniques and fire prevention measures, the

Card 1/8

Grease	Manufacturing SOV/3492	
pro	ganization of work, system of workmen's remuneration and methods for reduction costs are reviewed. The textbook contains numerous flow sheet les and designs of equipment. There are 21 references, all Soviet.	
TABLE	OF CONTENTS:	
Introd	luction	3
1. 2.	Friction and Lubrication Friction and the role of lubricants Concept of the mechanism of the lubricating process Principal requirements for lubricating materials	5 7 8
1. 2. 3. 4.	Nature, Classification, and Physicochemical Properties of Greases Nature of greases Classification of greases Principal quality indices of grease Characteristics of the most important types of greases Soap base greases Hydrocarbon base greases	9 9 10 11 15 15
Card 2	//a	

15386 8/081/63/000/002/075/088 3149/3144

AUTHORS:

Gromova, L. G., Dintses, A. I.

TITLE:

The use of esters and high-polymeric compounds in the production of hard-fat: lubricants

PERIODICAL:

Referativnyy shurnel. Ehimiya, no. 2, 1963, 468, abstract 2P172 (Fr. Vees. n.-i. in-t po pererabotke nefti i gasa i polucheniyu iskusetv. shidk. topliva no.8, 1959, 177-185)

TEXT: The effect of polymeric additives of polyisobutylene (I) and polyisocotylmethacrylate (molecular weight ~ 12000 and 14000 respectively) on the properties of plastic lubricants, prepared from MGN for 1805-51 (MVP GOST 1805-51) oil and also from the di-2-ethyl hexyl ester of sebacis acid (discoctyl sebacate (DOS)) was investigated. The compositions were thickened with Li-scap of stearic acid (a powder with saponification number 0, excess of alkali up to 0.50%, moisture content 0.15%). The optimum content of scap for the compositions is 10-12%. Addition of 1-3% (in relation to the lubricant) of the indicated polymere improved the lubricant quality by strengthening its colloidal structure. For

Card 1/2

The use of esters and high-polymeric ... 5/081/63/000/002/075/068 B149/B144

compositions prepared with DOS, I acts as the best structure-strengthening agent (I has a limited solubility in DOS). Plastic lubricants may be prepared with a DOS base and addition of 1 to 3% of I; they possess an insignificant volatility (< 0.5% at 100°C in 24 hours), low greese bleeding (1.5 to 3% at 100°C in 24 hours) and a favorable relation between shear stress and temperature, with other properties close to those of the low-temperature lubricants unature-201 (Telatim-201) and OKG -122-7 (OKB-122-7). [Abstracter's note: Complete translation.]

Card 2/2

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15.6600 AUTHORS:

Gromova, L.G. and Dintses, A.I.

SUV/65-59-8-8/17

TITLE:

Preparation of Lithium-Silicone Lubricating Oils with

High Polymeric Additives

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 8,

pp 32-40 (USSR)

ABSTRACT:

Various disadvantages of lubricants are discussed; these can be overcome by introducing different types of additives. The authors investigated the production of stable lithium-silicone lubricants when using various They prepared samples of four standard silicone liquids (liquid 3, 3-L, 4 and 5) and of the residual fraction of liquid 3 obtained by vacuum distillation of the latter at a pressure of 1 mm. liquids 3, 4 and 5 were cyclic ethyl polysiloxanes and the liquid 3-L a linear ethyl polysiloxane; the properties of the samples are given (Table 1). Phenyl-a naphthylamine (0.25%) was used as an anti-oxidant and added to all samples. Syneresis at 100°C after 24 hours (GOST 2635-48), the effective adhesion and strength (according to the VNII NP method) and the degree of evaporation of a

0.2 mm layer at 100°C after 24 hours were determined.

Card 1/4

\$5953 SOV/65-59-8-8/17

Preparation of Lithium-Silicone Lubricating Oils with High Polymeric Additives

Stable compositions were obtained when 10% of a thickening agent was added to the silicone lubricants 3 and 4. The stabilizing action of water on the structure of the composition was investigated and it was found that the addition of 10 to 15% of water gave the best results Experiments were carried out on the quality of lithium compositions prepared from various silicone liquids and also from dioctyl-sebacate and industrial lubricants Tsiatim-201 and Tsiatim-221 (Table 2). It was shown that compositions based on liquid 3 (which has a linear structure) and on the residue of liquid 3 have better low temperature properties and show a relatively low degree of evaporation (3 to 6%). A comparison of the properties of lithium-silicone and lithium lubricants showed that the former had a high degree of evaporation but a lower degree of syneresis. The lithium silicone lubricant, were also compared with the industrial product Tsiatim abl. The second part of the investigation was devoted to ascertaining the influence of polymeric additives on the properties of lithium silicone lubricants:

Card 2/4

66953 SOV/65-59-8-8/17

Preparation of Lithium-Silicone Lubricating Oils with High Polymeric Additives

polyisobutylene (M W 12000), polyisooctylmethacrylate (M W 14000) (PMA), vinipol vB-2\(\tau \) 2590-53). additives were found to dissolve easily in the liquid 3 and 4 and also in the residue of liquid 3 at a temperature of 100 to 130°C. Homogeneous transparent substances were formed VB-2 showed the greatest degree of solubility and PMA the lowest. Best results were achieved when 2 to 3% of the various substances were The effect of the polymer additives on the properties of lithium-silicone lubricants when using phenyl-a-naphthylamine as anti-oxidant are given in Table 3. 10% of lithium stearate was used as thickening agent in all lubricants. The adhesive properties of the lubricants were tested according to GOST 6037-54 and it was found that the "creep" temperature increased by 30 to 50°C when 2% of any of the aforementioned polymers were added. Curves showing the logarithm of the effective adhesion as influenced by the temperature and by the quantity of polymeric additive at temperatures of +50°C and -50°C; see Fig 1 and 2. Data in Fig 2 and

Card 3/4

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SOV/65-59-8-8/17

Preparation of Lithium-Silicone Lubricating Oils with High Folymeric Additives

Table 3 show that the addition of polymeric compounds increases the effective adhesion of lubricants at 50°C by 1.5 to 3 times, that the highest increase in adhesion is ensured when using the additives FMA and VB-2. At "50°C, the effective adhesion is increased by 5% when the additive PMA is used. literature data (Ref 0) indicate that polymeric additives cause depolymerisation, ie that long polymeric molecules are split into shorter chains. The authors carried out experiments on the decrease of effective adhesion of lubricants containing polymeric additives and ascertained the degree of adhesion on a Pavlov viscosimeter at 20°C (Fig 3). was found that after 30 minutes, the adhesion of the investigated samples decreased to about one third but that the degree of adhesion remained unchanged when using Tsiatim-221. There are 3 figures, 3 tables and 7 references, 5 of which are Soviet and 2 English.

ASSOCIATION: VNII NP

Card 4/4

GROMOVA, L. G., CAND TECH SCI, LITHIUM LUBROCATION.

GREATES ON SYNTHETIC LIQUIDS WITH ADMIXTURES OF POLYMERS

AND POLAR COMPOUNDS. MOSCOW, 1960. (MOSCOW ORDER OF LABOR

RED BANNER INST PETROLEGISCH AND GAS INDUSTRY IN I. M.

GUBKIN). (KL, 2-61, 207).

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S/200/000/06/002/004 E000/8112

15.6600

AUTHORS:

Gromova, L.G., and Dintses, A.I.

TITLE:

Influence of Polar Additives on the Quality of

Lithium-Based Greases in Silicone Fluids

PERIODICALs Khimiya i tekhnologiya topliv i masel, 1960, No 6, pp 29-35 (USSR)

ABSTRACT: Polar additives, added at concentrations up to 5% to lithium greases for silicone fluids, can improve their lubricating qualities without diminishing the colloidal stability of the grease. Colloidal stability was assessed by electron microscopy, extrusion of fluid base from the grease, and shear The method of introducing the additive is important. Addition at the commencement of manufacture using silicone fluid strength. No 4, of 1% oxidized ceresin (MNI-7) or 5% vinyl VB-2 increases stability: 5% of a sulphur additive, or 10% pentaerythryl ether mixed with monobasic C5 - C7 acids scarcely affect it; tricresyl phosphate (TCP) added at the start of manufacture in any concentration greatly diminishes colloidal stability. Stability is somewhat improved by introducing the additives to the melt at 205 °C, and even more so by addition to the prepared grease cooled

Card 1/3

5/003/60/000/06/002/004 B030/B112

Influence of Polar Additives on the Quality of Lithium-Based Greases in Silicone Fluids

to 60-70 °C prior to homogenization; in the latter case 3% pentachlorodiphenyl and even 3% TCP scarcely alter colloidal Stability. The effects of different dispersing media have been studied at the optimum grease concentration (10% lithium stearate plus 0.25% phenyl alphanaphthylamine as an anti-oxidant) Spindle oil provides greater stability than silicone fluid No 4 (1.4% liquid extruded instead of 3.6%), but has 5 times greater viscosity at -50 °C. Results similar to silicone fluid No 4 are obtained with 26% residue silicone fluid No 3, dioctyl sebacate, thiodivalerianate, and a 1sl mixture of thiodivalerianate and silicone fluid No 6; however, the shearing strengths are rather lower. The effects of different additives, added before homogenization, using silicone fluid No 4 as a base, have been studied, The shearing strength is scarcely altered by 1% MNI-7 or 3% pentachlorodiphenyl, increased by a factor of 2 by vinyl VB-2, and markedly decreased by 3% of sulphur additive VNII-NP, 5% pentaerythryl ether, or 3% TCP. Thus, addition Thus, addition of MNI-7 (1%), or 3% of vinyl VB-2, markedly improve the overall characteristics of the greaces Card 2/3