87212

S/126/60/010/001/025/027/XX

E032/E314

18 8100 1045, 1418, 1138

AUTHORS:

Perwakov, V.A., Khotkevich, V.I. and

Shepelev, A.G.

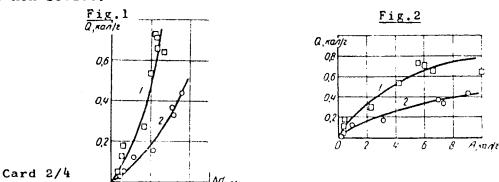
Latent Heat of Plastic Deformation of Silver at -196 and +20  $^{\circ}$  C TITLE:

Fizika metallov i metallovedeniye, 1960, Vol. 10, PERIODICAL: No. 1, pp. 117 - 121

The present authors have measured the latent heat of deformation Q, on the degree of deformation  $\Delta d/d$  and the TEXT: work A done in compressing silver specimens at temperatures between -196 and 20 °C. The pulse method described by the second of the present authors et al in Ref. 1 was employed. 99.99% pure silver wires, having a diameter of 0.1 mm and length of 60 mm were used. The deformation was produced by compression between polished steel plates. Fig. 1 shows the dependence of Q (cal/g) on  $\triangle d/i$  at -196 C (Curve 1) and +20 °C (Curve 2). Fig. 2 shows the latent heat Q as a function of A (cal/g) at the same temperatures as in Fig. 1. Fig. 3 shows Q/A as a function of A and Fig. 4 Card 1/4

87212 \$/126/60/010/001/025/027/XX E032/E314

Latent Heat of Plastic Deformation of Silver at -196 and +20 °C shows the latent heat Q as a function of the relative change in the resistance of the specimens. Acknowledgments are expressed to N.L. Zheldakov for assistance in building the apparatus and in the measurements. There are 4 figures and 7 references: 5 Soviet and 2 non-Soviet.



**APPROVED FOR RELEASE: 06/15/2000** 

CIA-RDP86-00513R001240130004-6"

9721.

s/126/60/010/001/025/027/XX E032/E314

Latent Heat of Plastic Deformation of Silver at -196 and -20

Fig.2

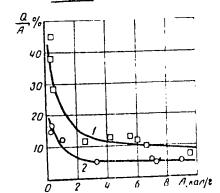
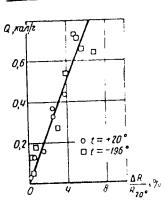


Fig.4



Card 3/4

872120 S/126/60/010/001/025/027/XX E032/E314

Latent Heat of Plastic Deformation of Silver at -196 and +20 or

Fiziko-tekhnichekiy institut AN UkrSSR ASSOCIATIONS:

(Physicotechnical Institute of the AS

Ukrainian SSR)

Khar'kovskiy gosudarstvennyy universitet

imeni A.M. Gor'kogo (Khar'kov State

University imeni A.M. Gor'kiy)

SUBMITTED: February 15, 1960

Card 4/4

PERVAKOV, V.A.; KHOTKEVICH, V.I.

Colorimetric determination of the energy of formation of vacancies in gold. Dokl. AN SSSR 134 no.6:1328-1330 0 '60. (MIRA 13:10)

1. Piziko-tekhnicheskiy institut Akademii nauk USSR i Khar'kovskiy gosudarstvennyy universitet im. A.N.Gor'kogo. Predstavleno akademikom A.F.Ioffe.

(Gold)

```
PERVAKOV, V.A. [Pervakov, V.O.]; KHOTKEVICH, V.I. [Khotkevych, V.H.]

Application of the pulse calorimetric method for determining the solvation energy of oxygen in silver. Unr. fiz. zhur. (MIRA 14:8)

6 no.3:408-411 My.Je '61.

1. Fiziko-tekhnicheskiy institut AN USSR, g. Khar'kov, 1 Khar'kovskiy gosudarstvennyy universitet im. Gor'kego. (Solvation) (Oxygen) (Silver)
```

KHOTKEVICH, V.I.; PERVAKOV, V.A.; GENKIN, Ya.Ye.

Low-temperature press. Prib.i tekh.eksp. 6 no.5:26-202 3-0 (MIRA 14:10)

1. Fiziko-tekhnicheskiy institut AN USSR i Khar'kovskiy gosudarstvennyy universitet.

(Low-temperature research--Equipment and supplies)

PERVAKOV, V.A.; MERISOV, B.A.; KHOTKEVICE, V.I.

Effect of the characteristics of crystal lattice distortions on the temperature dependence of the electric resistance of silver and gold. Fiz. met. i metalloved. 12 no.1:38-41 Jl '61. (MIRA 14:8)

1. Khar kovskiy gosudarstvennyy universitet imeni A.M.Gor kogo - fiziko-tekhnicheskiy institut AN USSR.

(Precious metals--Metallography) (Metals, Effect of temperature on)

# S/126/61/012/003/020/021 E073/E335

Pervakov, V.A., Petrenko, N.S. and Khotkevich, V.I. AUTHORS:

Influence of the plastic deformation on eliminating TITLE:

excess vacancies in quenched gold

Fizika metallov i metallovedeniye, v. 12, PERIODICAL: no. 3, 1961, 460 - 461

According to M.A. Bol'shanina (Ref. 1 - Ivz. AN SSSR, ser. fiz., 1950, 14, 223) plastic deformation of metal does not only cause formation of crystal-lattice distortions but also leads to their elimination. According to published work a sufficiently high deformation at room temperature in Al and Au leads to a decrease in the concentration of the excess vacancies. Data are given in this paper on the influence of deformation, at the rate of 10%/min and  $10^5$  %/min (impact) at 20 and -196 °C, on the increase in the resistance caused by preliminary quenching. investigations were made on 60 mm long, 0.05 mm dia. wire, made of pure gold (99.99%), which was determined by compressing the wire with two polished steel plates. The quenching was by rapid submersion of the specimens in water. Fig. 1 shows the dependence Card 1//2

5/126/61/012/005/020/021 E073/E335

Influence of the ....

process itself, it can be anticipated that for annealed Au specimens which are slowly deformed at room temperature the contribution of the vacancies to the increase in the electric resistance at low degrees of deformation will be greater than at high degrees of deformation. Specimens deformed at low temperatures or specimens deformed by impact at room temperature should contain more vacancies than specimens deformed at a low rate at room temperature. These conclusions on the vacancies are also applicable to other point defects which have a lower temperature stability than vacancies. There are 3 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The three English-language references mentioned are: Ref. 2 - M. Wintenberger, Symposium by the Institute of Metals, Dec., 1957, London, 1958, 201; Ref. 3 - M. Wintenberger - Acta met., 1959, 7, 549 and Ref. 5 - R. Maddin, A. Cottrell - Phil. Mag., 1955, 46, 735.

ASSOCIATION:

Khar'kovskiy gosuniversitet im. A.M. Gor'kogo

(Khar'kov State University im. A.M. Gor'kiy)

April 27, 1961 SUBMITTED:

Card 3//43

ACC NR: AP5028563 (/V) SOURCE CODE: ON PETERSON, V. A.; Petrenko,  AUTHOR: Guterman, M. B.; Mirkin, I. L.; Pavlyuk, A. A.; Pervakov, V. A.; Petrenko,		
AUTHOR: Guterman, M. B.; Mirkin, I. L.; Pavlyuk, A. A.; Pervakov, V. A.; Petrenko;  N. S.; Khotkevich, V. I.  ORG: TsNII of Technology and Machine Building, Moscow (TsNII tekhnologii i mashinostroyeniya); Kharkov gosuniversitet im. A. M. Gor'kiy (Khar'kovskiy gosuniversitet)  TITIE: Certain features connected with the K-state in Ni-Cr, Ni-Cr-Mo and Fe-Ni-Cr-Mo alloys  SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 733-740  TOPIC TAGS: metal physics, ordered alloy, mechanical property, resistivity, non-ferrous metal alloy, ferrous alloy, metal heat treatment, heat resistant alloy, high temperature strength, metal hardening  ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 18% Mo and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low temperature deformation (from +20° to -196°C) and annealing rate (from 2 to 10° deg/min). ture deformation from +20° to -196°C) and annealing rate (from 2 to 10° deg/min).  Decomposition of the K-state in the alloys was observed. The effect of the K-state on high temperature strength was also noted. The K-state causes microscopic inho-		T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(L)
ORG: TsNII of Technology and Machine Building, Moscow (TsNII tekhnologii i mashinostroyeniya); Kharkov gosumiversitet im. A. M. Gor'kiy (Khar'kovskiy gosumiversitet)  TITLE: Certain features connected with the K-state in Ni-Cr, Ni-Cr-Mo and Fe-Ni-Cr-Mo alloys  SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 733-740  TOPIC TAGS: metal physics, ordered alloy, mechanical property, resistivity, non-ferrous metal alloy, ferrous alloy, metal heat treatment, heat resistant alloy, high temperature strength, metal hardening high temperature strength, metal hardening and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low temperature deformation (from +20° to -196°C) and annealing rate (from 2 to 10° deg/min).  The effect of the K-state Decomposition of the K-state in the alloys was observed. The effect of the K-state on high temperature strength was also noted. The K-state causes microscopic inho-		
ORG: TsNII of Technology and Machine Building, Moscow (TsNII tekhnologii i mashinostroyeniya); Kharkov gosumiversitet im. A. M. Gor'kiy (Khar'kovskiy gosumiversitet)  TITLE: Certain features connected with the K-state in Ni-Cr, Ni-Cr-Mo and Fe-Ni-Cr-Mo alloys  SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 733-740  TOPIC TAGS: metal physics, ordered alloy, mechanical property, resistivity, non-ferrous metal alloy, ferrous alloy, metal heat treatment, heat resistant alloy, high temperature strength, metal hardening  ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 18% Mo  ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 18% Mo  and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low temperature deformation (from +20° to -196°C) and annealing rate (from 2 to 10° deg/min).  Ture deformation of the K-state in the alloys was observed. The effect of the K-state Decomposition of the K-state in the alloys was observed. The state causes microscopic inhomology in the cause of the K-state causes microscopic inhomology.		
TITIE: Certain features connected with the K-state in Ni-Cr, Ni-Cr-No and Te-Ni-Cr-Mo alloys  SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 733-740  TOPIC TAGS: metal physics, ordered alloy, mechanical property, resistivity, non-ferrous metal alloy, ferrous alloy, metal heat treatment, heat resistant alloy, high temperature strength, metal hardening  ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 18% Mo and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low temperature deformation (from +20° to -196°C) and annealing rate (from 2 to 10° deg/min). ture deformation of the K-state in the alloys was observed. The effect of the K-state Decomposition of the K-state in the alloys was observed. The K-state causes microscopic inhomial temperature strength was also noted. The K-state causes microscopic inho-	ORG: TENII of Technology	IT 40101 44 4
TOPIC TAGS: metal physics, ordered alloy, mechanical property, resistivity, non- ferrous metal alloy, ferrous alloy, metal heat: treatment, heat resistant alloy, high temperature strength, metal hardening high temperature strength, metal hardening  ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 16% Mo and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- becomposition of the K-state in the alloys was observed. The effect of the K-state and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera- becomposition of the K-state in the alloys was observed.	TITLE: Certain features	connected with the K-state in Ni-Cr, Ni-Cr-no and le-M2
ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 10% Mo  and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low tempera-  and From +20° to -196°C) and annealing rate (from 2 to 106 deg/min).  ture deformation (from +20° to -196°C) and annealing rate (from 2 to 106 deg/min).  The effect of the K-state  Decomposition of the K-state in the alloys was observed. The effect of the K-state  On high temperature strength was also noted. The K-state causes microscopic inho-  UDC: 539.4.015		manager registivity, non-
Decomposition of the K-state in the alloys was observed. The effect of the K-state Decomposition of the K-state in the alloys was observed. The K-state causes microscopic inhom high temperature atrength was also noted. The K-state causes microscopic inhom high temperature atrength was also noted. UDC: 539.4.015	ferrous metal alloy, leri	metal hardening
on high temperature strength was also noted. The K-state causes microscopic limits on high temperature strength was also noted. UDC: 539.4.015	· ····· / J. Formation A TPCIII TA	to to an a second of the Vapore
	Decomposition of the K-st	noth was also noted. The K-state causes microscopic immo
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L 14998-66 ACC NR: AP5028563

Card 2/2

mogeneities which retard the motion of dislocations. In this work, the influence of the decomposition of the K-state was studied in terms of high temperature strength. The temperature dependence of electrical resistivity was obtained as a function of temperature and heating rate. For each alloy, the resistivity increased initially and at 500°C reached a peak, whereupon it dropped to a minimum (about 700° to 900°C depending on the alloy) and rose again. The drop in resistivity was associated with the decomposition of the K-state. Deformation by compression (60 to 70%) in the temperature interval from -196 to +20°C showed that the decomposition of the K-state was practically independent of deformation temperature. At higher temperatures (between 500° and 1000°C) and at high rates of heating, the decomposition of the K-state was studied by increasing the heating rate to 106 deg/min. The interval for the maximum decomposition was displaced to higher temperatures (300 to 450° higher), depending on the type of alloy. In the K-state region a significant strengthening was also noted when the speed of deformation was increased from 0.03%/min to 0.3%/min, while in the region of K-state decomposition no effect on strength was apparent. For fast heating rates, the rise in strength was maintained at higher temperatures than for slow heating rates. In particular, for Ni-Cr this region was expanded to 700°C, while for the other alloys to 900 or 1000°C. Where the K-state was decomposed at room temperature, no additional strengthening occurred upon pulse heating. Orig. art. has: 4 figures. OTH REF: 003 OFIEG REF: 011/ SUBM DATE: 06Aug64/ SUB CODE: 11/

L 23937-65 Ent(n)/EnP(b)/T/EnP(t) Pad

ACCESSION NR: AP5001557

IJP(c) JD/HW S/0185/64/009/012/1371/1373

AUTHOR: Pavlyuk, A. O.; Petrenko, M. S.; Pervakov, V. O.; Khotkevych, V. G.

TITLE: On some peculiarities of the temperature dependence of the increase of the electrical resistivity of the deformed allow Fe + 50% Nt at low temperatures

SOURCE: Ukrayins kyy fizychnyy zhurnal, v. 9, no. 12, 1984, 1371-1373

TOPIC TAGS: resistivity of deformed alloy, martensitic phase formation, ferrous nickel alloy

ABSTRACT: In the iron-nickel alloy with the nickel content below 40%, martensitic transformation is observed on cooling to a sufficiently low temperature. At higher nickel concentrations, this transformation does not take place. However, it can be expected that deformation and cooling will produce in these alloys local formation of martensitic phase. As an indication of the new phase formation, the electrical resistivity was measured (see L. Kaufman and M. Cohen, Trans. Amer., Inst., Min (Metall.) Eng. 206, 1393 (1556)). Fe + 50% Ni alloy was pre-

L 23937.65

ACCESSION NR: AP5001557

2

pared in the form of wires of 0: 2 mm diem, and pressed between metal plates, and the resistance compared with that of annealed specimens. It was found that in specimens which were deformed and measured at -196 C, the increase of resistivity was notices bly greater than in specimens which were deformed at room temperature and measured at -196 C. This is attributed to local martensitic phase formation. The authors are grateful to Y. L. Mirkin for the Fe-Ni alloy. Orig. art. has: I figure

ASSOCIATION: Khark vs'ky derzhuniversytet in. O. M. Gor'kogo (Khar'kov State University)

SUBMITTED: 10Jul64

ENCL: 00

SUB CODE: MM

NR REF SOV: 002

OTHER: 007

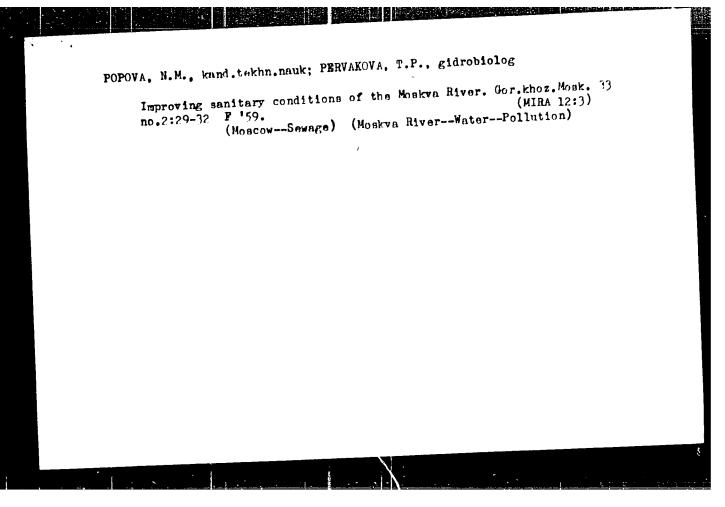
Card 2/2

PAVLYUK, A.A. [Pavliuk, A.O.]; PERVAKOV, V.A. [Pervakov, V.O.]; KHOTKEVICH, V.I. [Khotkevych, V.H.]

Effect of an oxygen admixture on the heat capacity of silver. Ukr. (MIRA 18:4)

fiz. zhur. 10 no.2:237-238 F '65.

1. Khar'kovskiy gosudarstvenny; universitet.



15-57-12-16786

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,

p 12 (USSR)

AUTHOR: Pervakova, V. I.

TITLE: The Stratigraphy and Lithology of the Jurassic Rocks

of the L'vov Vpadina (Basin) (K stratigrafii i litologii yurskikh otlozheniy L'vovskoy vpadiny)

PERIODICAL: Nauchn. zap. L'vovsk. politekhn. in-ta, 1956, Nr 46,

pp 72-81

ABSTRACT: Within the L'vov-Volynia coal basseyn (basin), Jurassic

deposits rest unconformably on rocks of the Carboniferous and the Devonian. At the base of these
Jurassic sediments occur variegated rocks with a
thickness up to 137 m; red, brown, green siltstones,
mudstones, sandstones; and layers of conglomerates and
boulders. The variegated unit is a lagoonal-continental deposit and is Middle Jurassic in age. Above

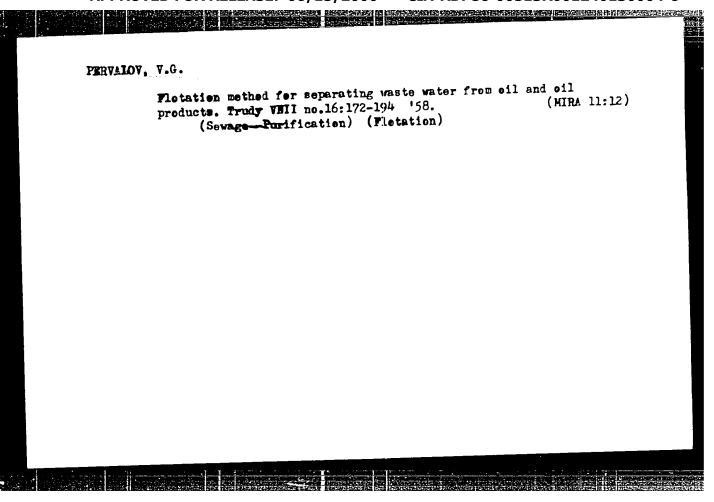
Card 1/2

The Stratigraphy and Lithology of the Jurassic Rocks (Cont.)

it occur lithographic and dolomitized limestones and dolomites with lenses of gypsum and anhydrite and with oolitic and pseudo-oolitic limestones of the Upper Jurassic. Rarely, ostracods, foraminifers, and molluscs may be found in these calcareous rocks. The thickness ranges from 60 m to 300 m.

Card 2/2

V. A. Krasheninnikov



ROZIN, B.B., inzh.; PUCHKOV, L.M., inzh.; PERVAKOV, V.P., inzh.

Using methods of linear programming in planning the charging of steel smelting furnaces. Stal' 23 no.9:845-847 S '63. (MIRA 16:10)

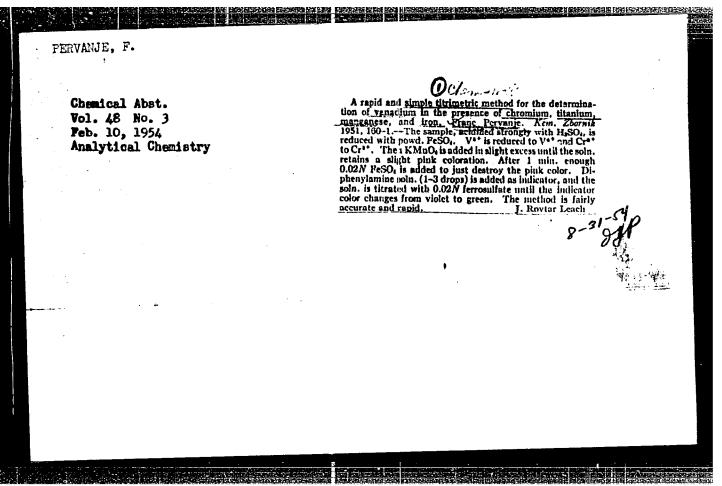
1. Zlatoustovskiy metallurgicheskiy zavod.

JEVTIC, Zivojin, doc., dr.; TRNINIC, Borivoje, dr.; BESAROVIC, Miso, mr.ph.; PERVAN, Vatroslav, dr.

Our experience with the treatment of hypertension with ismelin. Med. glasn. 14 no.12:566-568 D 160.

1. Dijagnosticki centar u Sarajevu (Upravnik: dr M. Gajic-Jankovic).

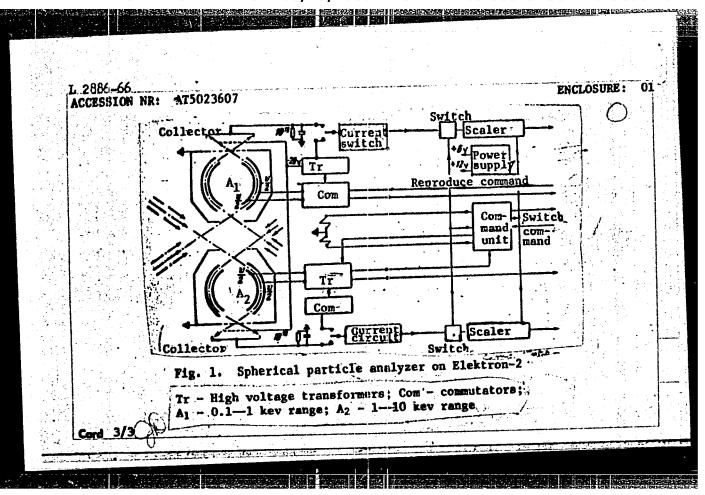
(AMIDINES ther) ANTIHYPERTENSIVE AGENTS ther)



ACC NR. AP6035884 SOURCE CODE: UR/0413/66/000/020/0124/0124 INVENTOR: Badayeva, A. A.; Pervaya, A. S.; Tutov, I. Ye.; Katsnel'son, V. Yu.; Kuz'mintsev, V. N.; Koloskov, M. M.; Kulinich, V. P. ORG: none TITLE: High speed steel. Class 40, No. 187314 [announced by the Central Scientific Research Institute of Technology and Machine Building (Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya); All-Union Scientific Research Tool Institute (Vsesoyuznyy nauchno-issledovatel'skiy instumentalnyy institut)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 124 TOPIC TAGS: high speed steel, chromium tungsten molybdenum steel, vanadium containing steel, titanium containing steel, DUCTILITY, TOUGHNESS ABSTRACT: This Author Certificate introduces a high-speed steel containing silicon, manganese, chromium, tungsten, molybdenum, vanacium and titanium. To improve the strength, ductility, notch toughness, and oxidation and heat resistance and to reduce carbide heterogeneity, the steel composition is set as follows: 0.75-0.85% carbon, 0.17-0.35% silicon, 0.20-0.40% manganese, 3.5-4.5% chromium, 2.5-3.0% tungsten, 2.5-3.0% molybdenum, 1.9-2.2% vanadium, 0.03-0.08% titanium. SUB CODE: 11/ SUBM DATE: 05Jun65/ Card 1/1 UDC: 669.14.018.252.3

	ACCESSION NR: AT5023607	UR/0000/65/000/000/0381/0387	
	AUTHOR: Vernov, S. N.; Hel'nikov, V. V.; Savenko, 1	I. A.; Savin, B. I.; Pervaya.	-
7	TTLE: Recording of charged particles of energies of lectrostatic analyzer	of 0.1-10 kev with a spherical	
			1
5	OURCE: Vsesoyuznaya konferentsiya po fizike kosmic	cheskogo prostranstva. Moscow,	
1_	965. Issledovaniya kosmicheskogo prostranstva (Spa oscow, Izd-vo Nauka, 1965, 381-387	ice research); trudy konferentsii	•
T i	OPIC TAGS: satellite, satellite data storage, part on density/Elektron 2 satellite	cicle counter, electron density,	
l a	BSTRACT: Identical spherical electrostatic analyze and negative particles with energies of up to 1 key	on Common 12 and Common 15 8-4	-
8	p to 10 key on Elektron-2. Each analyzer was comprome 60 mm in diameter, with input apertures leading metals are the second and the second an	ised of a spherical capacitor to plates spaced 12 mm apart,	
a	nnular gap of only particles of a desired energy ra	mge. A Faraday cylinder at the	
10	ord 1/3		-

L 2886\_66 ACCESSION NR: AT5023607 gap output served as the collector. The input apertures and the Paraday cylinder were furnished with biased grids to eliminate thermal particles and secondary emission, respectively. A diagram of the two analyzers used on Elektron-2 is shown in Fig. 1 of the Enclosure; accumulated charge was converted to binary code. The Cosmos data generally showed that electron flux at the 1-kev level did not exceed 10<sup>7</sup>/cm<sup>2</sup>/sec/kev at night and was only slightly higher by day. A maximum was noted during the southernmost portions of orbit, in a region south of New Zealand, attaining up to 12 x  $10^8$ /cm<sup>2</sup>/sec/kev. Electron fluxes recorded on Elektron-2 showed strong variations at sunrise and sunset (referred to the satellite); these variations reached values on the order of  $10^9/\text{cm}^2/\text{sec/kev}$ . Irregular variations in flux readings, correlated with known geomagnetic events observed during the flight. Data show that the satellite was at all times within the magnetosphere. Positive ion flux registered by Elektron-2 in the 0.1-10-kev range did not exceed 5 x 107/cm2/sec. Orig. art. has: 5 figures and 1 table. [SH] ASSOCIATION: none SUBMITTED: 02Sep65 SUB CODE: NO REF SOV: OTHER: 003 2/3



VERNOV, S.N.; SAVENKO, I.A.; SHAVRIN, P.I.; NESTEROV, V.Ye.;
PISARENKO, N.F.; TEL'TSOV, M.V.; PERVAYA, T.I.; YEROFEYEVA, V.N.

Some results of radiometric observations at altitudes of 200 to 400 km. during 1960-1963. Kosm. issl. 2 no.1:136-146

Ja-F '64. (MIRA 17:4)

PERVENTSEY. A., pisatel', ; MDIVANI, G., pisatel', ; KLEBANOV, S.;

BL'SHTREM, A.; ROSTOTSKIY, S., rezhisser; SEGAL, Ya., rezhisser;

BYSTRITSKAYA, L., aktrisa; USHAKOVA, V., aktrisa; PUGOVKIR, Mikh., akter;

TIKHONOV, S., skter; ZAKHARCHNKKO, V., akter; GIMZBURG, V.,

kino-operator; DUL'TSEV, V., kino-operator; SVETOZAROV, Ya., direktor

kartin; MARON, V., direktor kartin.

We speak to you, radio amateurs! Radio no. 6:3 Je '58. (MIRA 11:7)

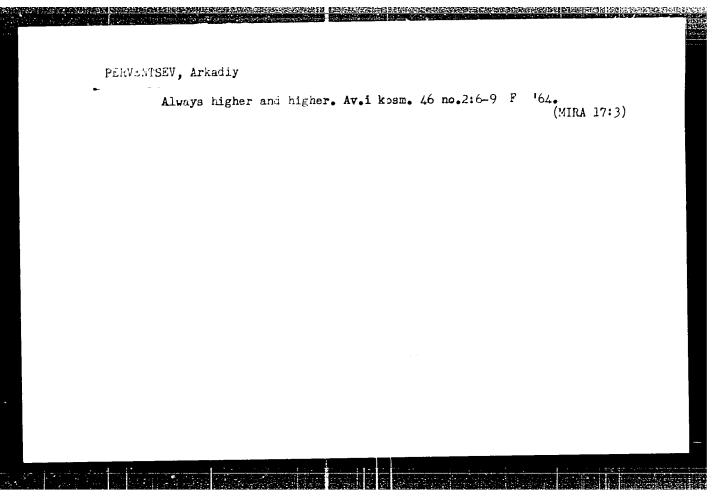
(Radio--Receivers and reception)

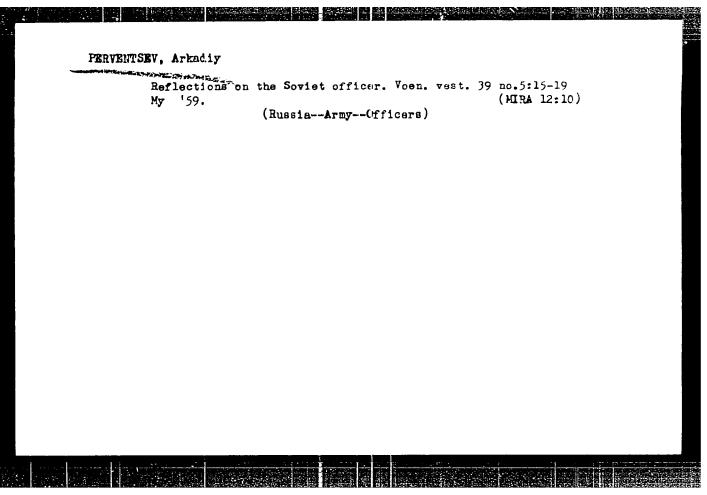
PERVENTSEV, A.

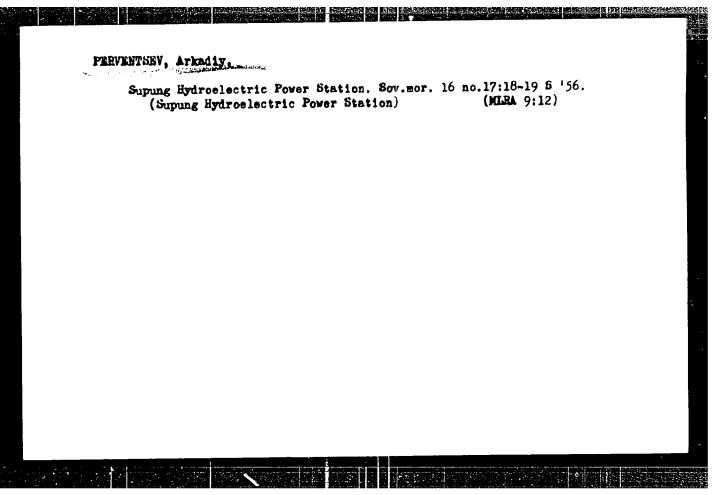
In Iceland; an excerrt from a book. Tr. from the hussian. p. 18.

Vol. 5, no. 7, 1955 ŒEO(RAFIIA Sofiya, bulgaria

So: Eastern European Accession vol. 5 ho. 1 Jan. 1956



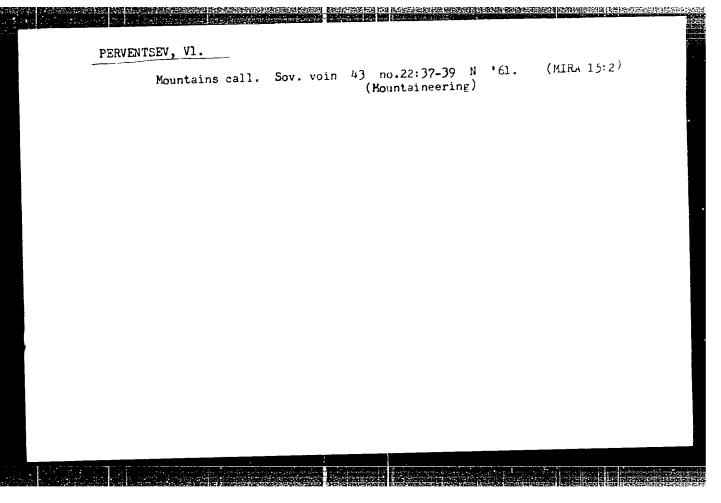




PERVENTSEV, Arkadiy Alekseyevich, MARTYROV, Yu., red.; KOROBOVA, L., tekhn. red.

[Put out to sea] Vykhod v okean. [Moskva] Izd-vo TsK VLKSM "Molodaia gvardiia," 1958. 133 p.

(Russin--Mavy)



PERVERDYAN, A.M.; DANELYAN, M.G.

Reflective spacing of a bisecting series of injection wells used intraboundary flooding. Azerb. meft. khos. 37 no.3:19-21 Mr '58. (Oil field flooding) (MIRA 11:8)

**有对数据和数据的数据数据数据数据数据数据数据数据数据数据** 

EPP(t)/ETI IJP(c) L h16h1-66 RU/0004/65/000/002/0059/0068; SOURCE CODE: ACC NR: AP6031214 AUTHOR: Barosu, Mircea (Graduate chemist; Bucharest); Nastase, Constanta (Engineer; Head researcher; Bucharest); Pervescu, Mariana (Chemical engineer; Timisoara); Tatucu, Stela (Chemical engineer; Timisoara); Sudresan, Sever (Chemical engineer; ORG: [Barosu; Nastase] Laboratory of Electrochemistry, ICPE (Laboratorul de electrochimie la ICPE); [Pervescu; Tatucu; Sudresan] Electro-Banat Factory, Timisoara (Fabrica Electro-Banat) TITLE: Contribution to the establishment of the utilization conditions of some MnO sub 2 types in manufacturing galvanic batteries SOURCE: Electrotehnica, no. 2, 1965, 59-68 TOPIC TAGS: battery, depolarization, manganese compound, carbon black ABSTRACT: The authors studied the effect of changing the C/MnO2 ratio as well as the use of artificial MnO2 and carbon black on the activity of depolarizing agents and the electrical characteristics of 3R12 batteries. This led to some suggestions for improvements in the manufacturing technology, which have been tested and have now been introduced in production. The structural analysis of the x-ray was done at the IFB by Doctor R. Crigorovici and R. Manaila. The authors thank them for attention given the analysis and interpretation of the MnO2 type x-ray structure; Directors of the "Electro-Banat" Factory and Technicians A. Bolog, M. Sociu and C. Butum for assistance given in preparing the industrial phase of the solutions. Orig. art. has: 20 figures and 5 tables. [Based on authors' Eng. abst.] [JPRS] SUBM DATE: O5Aug64 / ORIG REF: O1O / SOV REF: O03 SUB CODE: 09 009 OTH REF: Card 1/1 0418

BAROSU, Mircea, chimist diplomat (Bucuresti); NASTASE, Constanta, cercetator principal (Bucuresti); PERVESCU, Mariana, ing. chimist (Timisoara); TATUCU, Stela, ing. chimist (Timiscara); SUDRESAN, Sever, ing. chimist (Timisoara)

Contributions to the determination of the utilization conditions of some MnO2 types in manufacturing galvanic batteries. Electrotehnica 13 no.2:59-68 F 165.

1. Head of Electrochemical Laboratory of the Research and Electrotechnic Planning Institute (for Barosu). 2. Research and Flectrotechnic Planning Institute (for Nastase). 3. "Flect o- and Flectrotechnic Planning Institute (for Nastase). 3. "Elect o- August 5, 1964.

### PERVETINSKIY, L.N.

Use of graphic plotting in computing leveling nets. Geod.i kart. no.8:72-75 Ag '57. (MIRA 10:10)

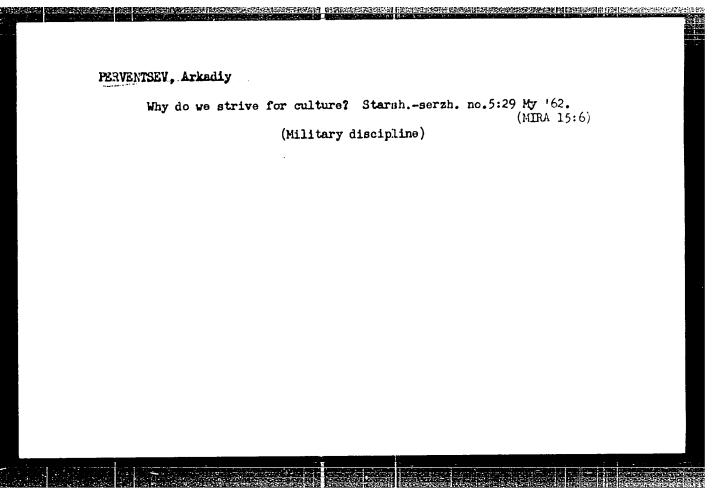
1. Otryad No.23 Sredne-Aziatskogo AGP.
(Triangulation)

PERVENTSEV, Arkadiy Alekseyevich

Geography & Geology

Visit to Iceland Moskva, Sovetskii pisatel 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1956/2 Unclassified.



PERVEN'	rsev, Arkadiy	the people is a mighty	force. Av.i kosm.	45 no.2: (MIRA 16:2)
	2-5 P 63.	the people is a mighty	forces)	(MIAN 1000)

PARVANTSEV, Arkadiy Alekseyevich; PaThuva, S., redektor; Danklina, A., texnainheskay redektor;

[Creative work of millions] Tworchestvo millionov. Moskva, Gos. (Mira 10:10)

izd-vo polit. lit-ry, 1957. 65 p. (Mira 10:10)

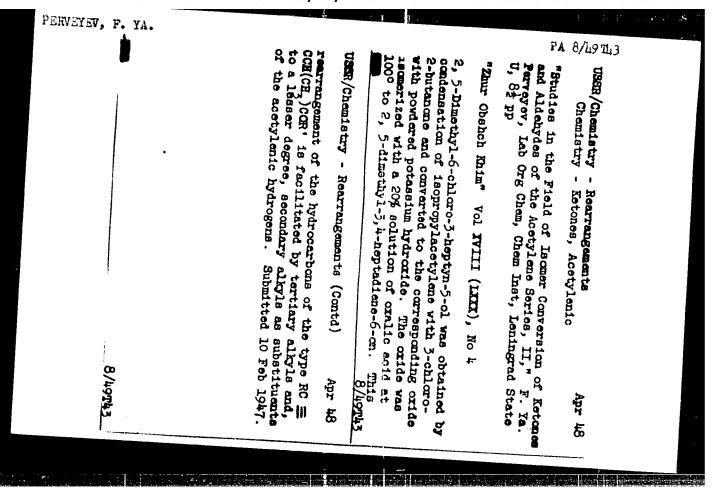
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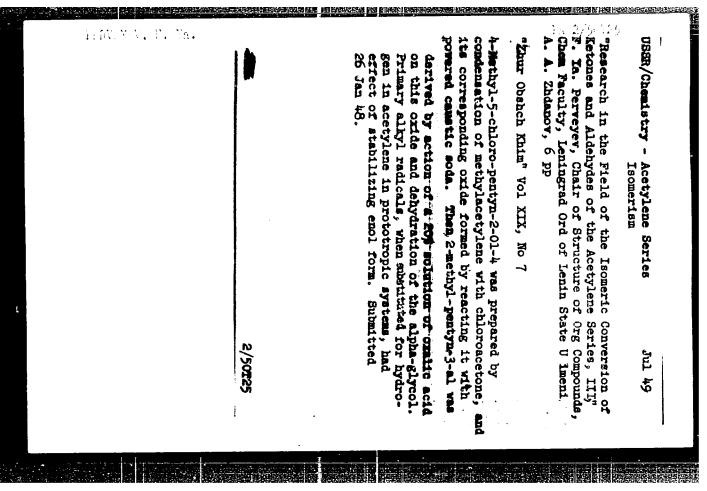
PERVENTSEV, Vl.

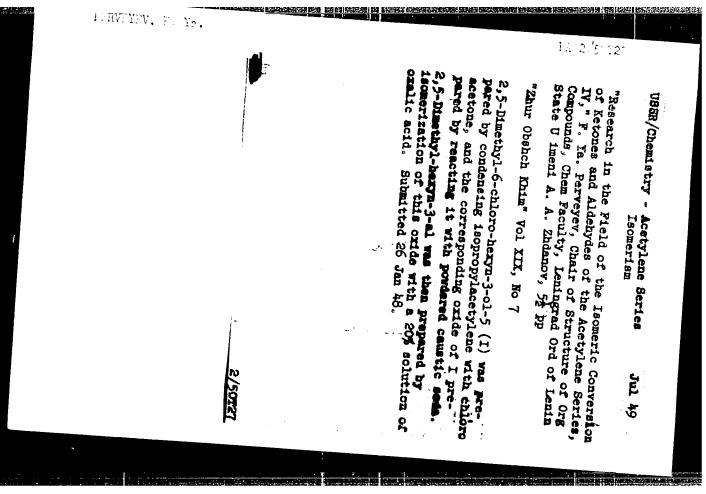
In the boiling of the waves. Starsh.-serzh. no.7:9 Jl '62.
(MIRA lò:6)

(Submarine boats)

PERVEYEV, F. YA PA 69T9 Units Chamistry - Estones Mar 1948 Chemistry - Isomerisation "Research in the Field of Isomeric Conversion of Metones and Aldehydes of the Acetylene Series. I.," F. Ya. Perveyev, Lab Org Chem, Sci Res Chem Inst, Leningrad State Order of Lenin U, 5% pp "Zhur Obshch Khim" Vol XVIII (IXXX), No 3 Istaich's reaction used to synthesize 1-phenyl-3methyl-4-chlor-penten-1-ol-3 and its corresponding oxides, from magnesium-bromium-phenylacetylene and 3-shlor-butanone-2. Isomerization of oxides by sine chloride produced 1-phenyl-3-methyl-renten-1-on-4. Explains character of isomerization and equilibrium between radicals. Submitted 10 Feb 1947. 6979







PERVEYEV, F. YA.

Chemistry, Organic

Minetieth anniversary of the theory of chemical atmeture of organic compounds. Vest. Len. un 6 No. 11, 1951.

Monthly List of Russian Accessions, Library of Congress, September 1952 UNCLASSIFIED.

- 1. PERVEYEV, F. Ya.
- 2. USSR (600)
- 4. Chemistry, Organic
- 7. Intramolecular reciprocal action of atoms, Yest. Len. un., 7, No. 2, 1952.

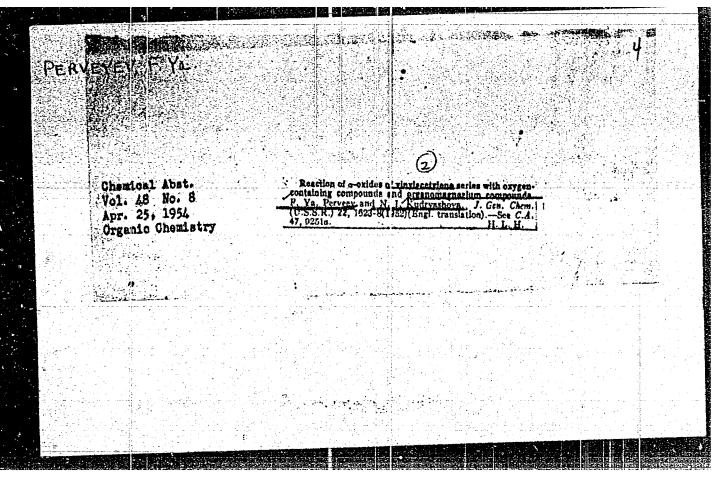
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

PERVEEY, F. IA.

Perveev, F. IA., Kudriashova, N. I.- "Interaction of A-oxides of the vind cetviene series with oxygen-containing and organomagnesium compounds." (p. 1580)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, Vo. 9

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240130004-6



methyl, propyl and n.-butyl alca. The action of

the acid catalysts resulted only in the formation

of tertiary monoethers of glycols. But alk cata-

oxido-1, 2-hexene-5-yne-3 and a secondary one for

lysts produced a primary monoether for 2-methyl-

3-methyl-oxido-2, 3-heptene-6 yne-4. The rate of

formation of monoethers of glycol in the presence

resp were separated out. These were derivs of MaCH, Ba(CH)2), primary and secondary monoethers the presence of alk catalysts (alcoholates of Na,

reaction of 2-methyl-oxido-1, 2-hexene-5-yne-3 and 3-methyl-oxido-2, 3-heptene-6-yne-4 with alcs in

action of 3-methyl-oxido-2, 3-heptene-6-yne-4 with ales in the presence of the same reagents, mono-

n.-butyl, isobutyl and hexyl alcs.

During the re-

glycol were separated out -- derive of methyl, propyl,

ethers were obtained which were the derivs of methyl,

isopropyl, propyl and n.-butyl alcs. During the

USSR/Chemistry - Acetylene

23 T27

Derivatives

Nov 52

the Structure of Organic Compounds N. I. Kudryashova, Leningrad State U, Chair of Magnesium Compounds. II," F. Ya. Perveyev and lene Series with Oxygen-Containing and Organo-"The Reaction of the \( \alpha - Oxides of the Vinyl Acety-

"Zhur Obshch Khim" Vol 22, No 11, pp 1964-1970

furic and oxalic acids, tertiary monoethers of hexene-5-yne-3 with alcs in the presence of sul-During the reaction of 2-methyl-oxido-1, 2-

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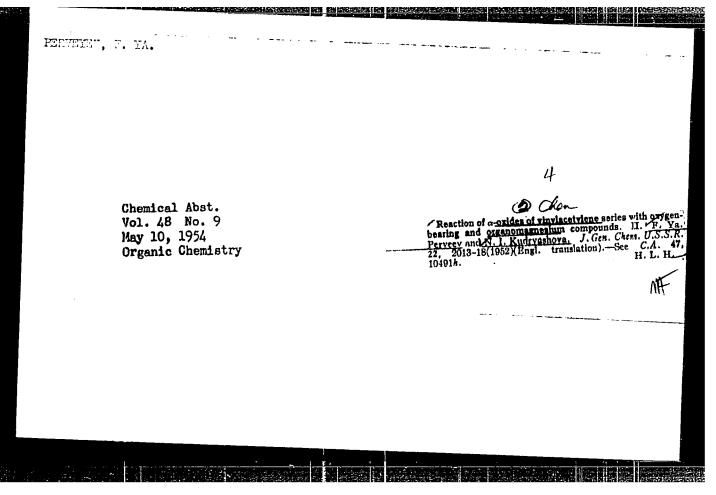
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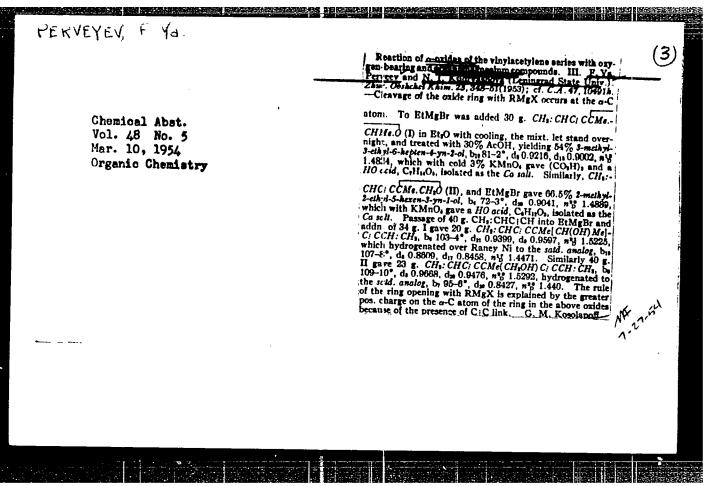
catalysts, drops in accordance with a decrease in of the monoether of glycol, in the presence of alk group of the reacting alc; the rate of formation decrease in the acidity of the H in the hydroxyl of alk catalysts decreases in proportion to the

the soly in alcohol of the alk catalyst being con-

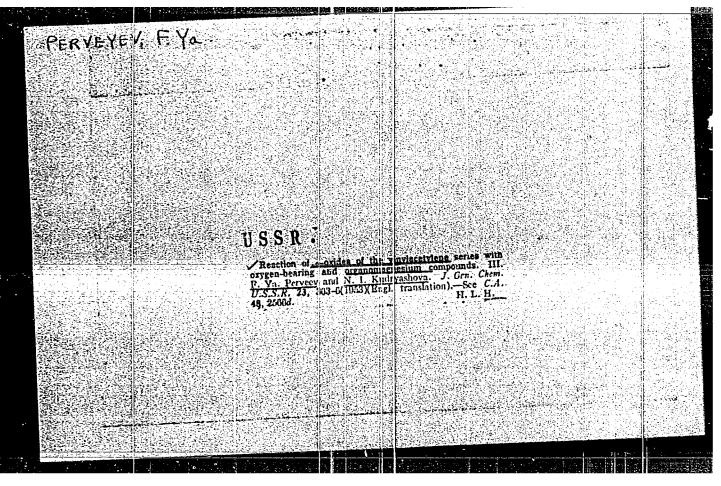
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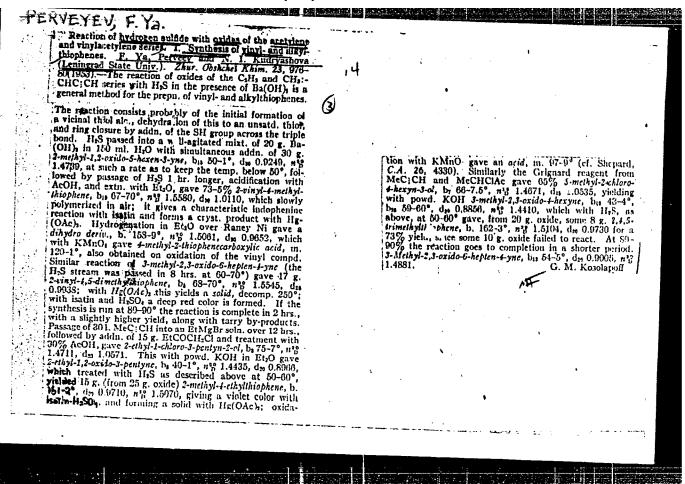
sidered.



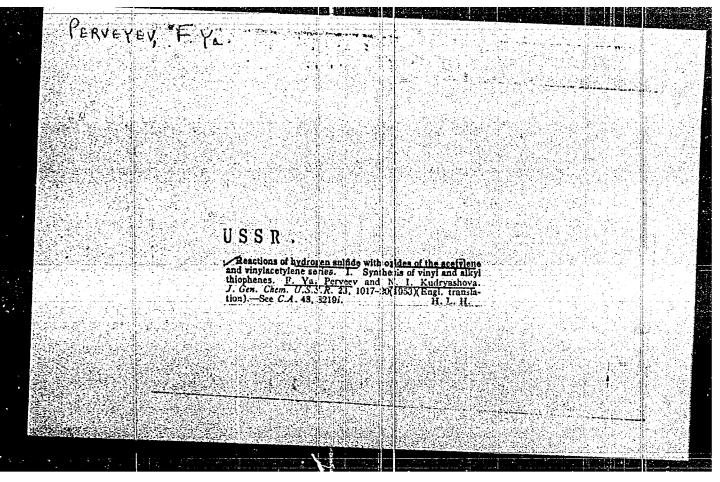


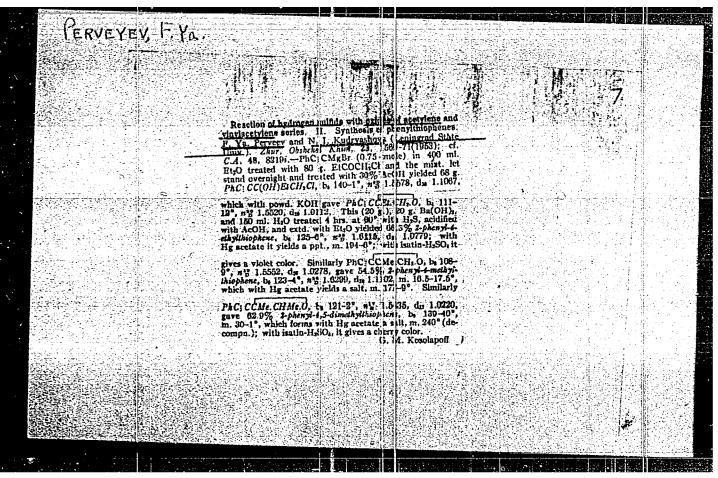
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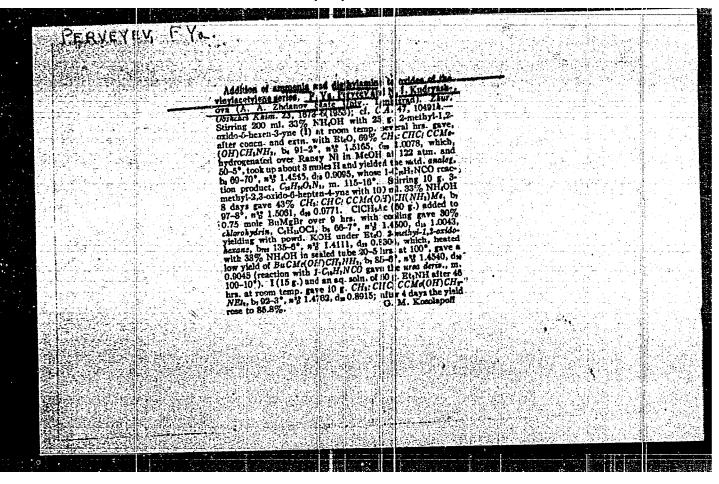




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PERVEYEY, F. Ya. UBSR/Chemistry , 1/1 Card Perrayev, F. Ya., and Kudryashova, N. I. Authors Reaction of alpha-oxides of the acetylene series with hydrogen sulfide. Title Part 3. -Zhur. Ob. Khim., 24, Ed. 6, 1019 - 1025, June 1954 Periodical The reaction of alpha-oxides of the acetylene series, with hydrogen sulfide, in the presence of Ba(OH)2 led to the synthesis of hydroxyalkylthio-Abstract phenes: 2-(alpha-oxyisopropyl)-4 methylthiophene, 2-alpha-oxy-secondary-butyl)-4-methylthiophene and 2-(alpha-oxyisopropyl)-4, 5-dimethylthiophene ene. Dehydration of hydroxyalkylthiophenes with diluted sulfuric acid, results in the formation of vinylthiophenes: 2-isopropyl-4-methylthiophene, 2-(alpha-methylpropenyl)-4-methyl-thiophene and 2-isopropenyl-4, 5-dimethylthiophene. Six references; 1 German since 1885; 2 USSR since 1914. Tables. State University, Leningrad Institution January 15, 1954 Submitted

PERVEYEV, F. Ya.

USSR/Chemistry Isomerization

Card : 1/1 Pub. 151 - 17/33

Authors : Perveev, F. Ya., and Kudryashova, H. I.

Title : Isomerization of alpha-oxides of the acetylene and vinyl acetylene series

Periodical : Zhur. ob. khim. 24/8, 1375 - 1379, August 1954

Abstract: Recommended conversion of oxides of acetylene and vinyl acetylene series, under the effect of diluted sulfuric acid, was investigated. The products of isomeric conversion of the above mentioned oxides and their chemical properties, are described. Nine references: 8 USSR and 1 USA

(1940 - 1953).

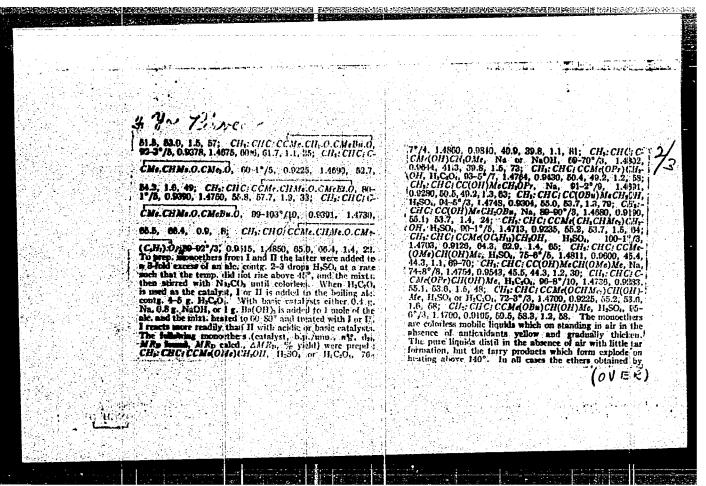
Institution : State University, Leningrad

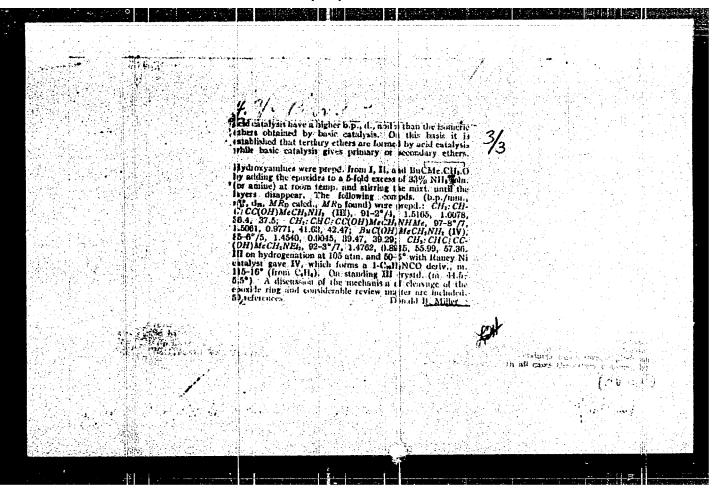
Submitted : February 25, 1954

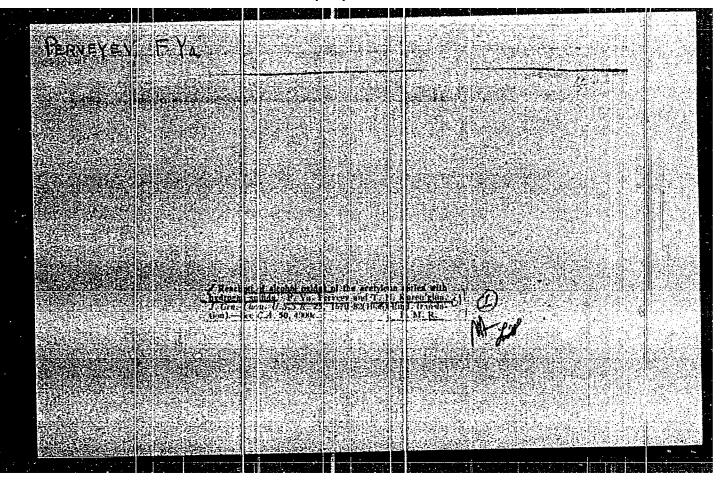
USSR/Chemistry - Synthesis : Pub. 22 - 24/44 Card 1/1 Perveyev, F. Ya., and Kudryashova, N. I. **Authors** Reaction of hydrogen sulfide with oxides of the acetylene and vinyla-Title cetylene series (synthesis of vinyl-, alkyl- and phenylthicphenes) Periodical : Dok. AN SSSR 98/6, 975-978, October 21, 1954 The reaction between hydrogen sulfide and oxides of the acetylene and Abstract vinylacetylene series was investigated. It was found that those oxides, when reacting with hydrogen sulfide in the presence of barium hydroxide, form alkyl-, vinyl-, phenylthiophenes and other derivatives depending upon the structure of the basic acids. (Wher compounds, synthesized through the reaction of oxides with hydrogen sulfide, are listed. Thirteen references: 7-USSR; 3-USA and 3-German (1899-1952). Tables. stitution: Presented by: Academician I. L. Knunyants, May 23, 1954

USSR/ Chemistry - Synthesis Dard 1/1 Pub. 127 - 11/12 Authors Perveev, F. Ya. Tile \* Reaction between a - oxides of acetylene and vinyl-acetylene series and hydrogen-sulfide Pariedical : Vest. Len. un. ser. mat. fiz. khim. 5, 145-161, May 1955 Metrect • An experimental study of the reactions between the a -oxides of acetylene and vinyl-acetylene series and hydrogen sulfide is described. The following reactions were analyzed: vinyl-aklyl-thiophenes and hydrogen-sulfide; alkyl-thiophenes and hydrogen sulfide; alkyl-phenyl-thiophenes and hydrogen sulfide, and thiophene-oxides and hydrogen sulfide. Fifty-four references: 3 British, 13 USA, 18 German, and 20 USSR (1885-1955). Tables. Institution: Submitted : January 6, 1955

# PERVEYEV, F. A. All Sylapsalization in the Said of the exprovy securities and productivens series. P. Va. Pervey. Verinit Acquired and productivens series. P. Va. Pervey. Verinit Acquired and productivens series. P. Va. Pervey. Verinit Acquired and productive for the constructive series of the constructive series of the constructive series of the constructive series of the constructive series shall be constructed in the constructive series of the constructive series shall be constructed in the constructive series shall be constructed and shall be constructed in the constructive series shall be constructed in the construction of the constructive series shall be constructed in the constructive series shall be constructed in series and shall be constructed in the constructive series shall be constructed in the constructive series shall be constructed in the construction of the constructive series shall be constructed in the construction of the construction of the constructive s







PREVENEY, F.Ia.; EUREN'GINA, T.E.

Interaction of alcohol oxides of the acetylenic series with hydrogen sulfide. Zhur. ob. khim. 25 no.8:1619-1623 Ag '55. (MLRA 9:2)

1. Leningredskiy gosudarstvennyy universitet. (Alcohols) (Thiophene)

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PERCEYEL

USSR/ Organic Chemistry - Theoretical and general questions

on organic chemistry

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11590

: Perveyev F.Ya. Author

: Leningrad University Inst

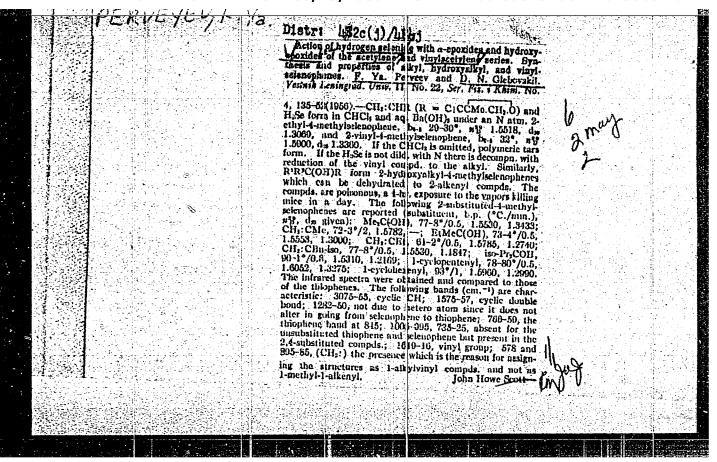
Title Isomerization of Alpha Oxides. III

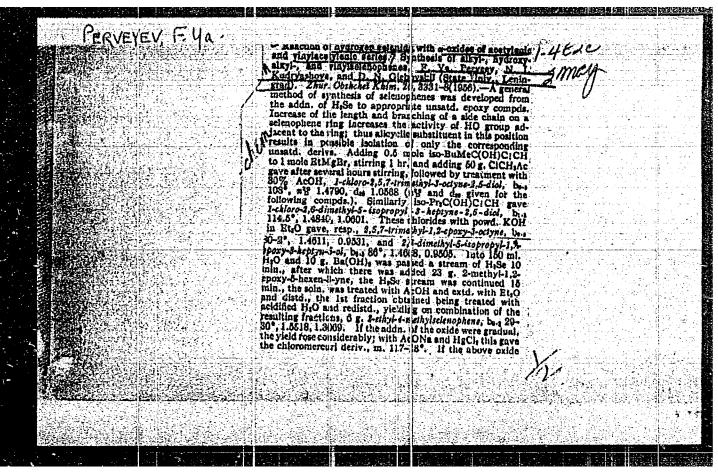
Orig Pub : Vestn. Leningr un-ta, 1956, No 10, 103-115

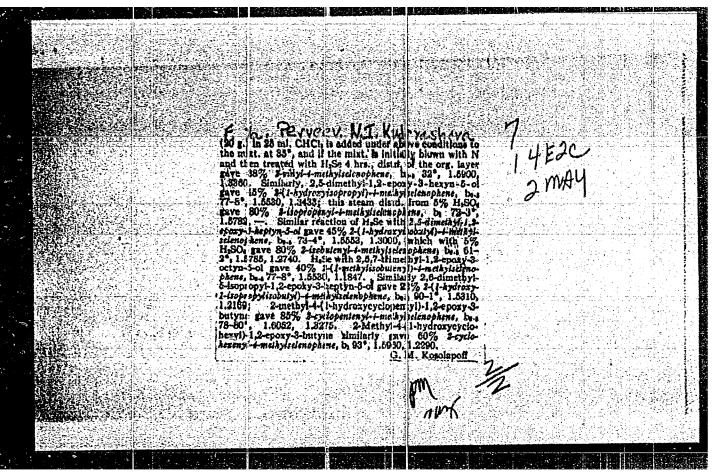
On the basis of literature data and the author's work (Zh. obshch. Abstract :

khimii, 1948, No 18,479, 686; 1949, No 19, 1303; REhKhim, 1955, 13883) a study was made of the effect of substituents in alphaoxides on the nature of rearrangement following opening of the oxide ring. In alkyl substituted alpha-oxides the oxide ring opens mostly on the side of the least hydrogenated C-atom, and most reactive are the disubstituted oxides having the asymmetric structure RR'CCH2O, which are isomerized exclusively to aldehydes; monosubstituted oxides RCHCH20 yield predominantly aldehydes; disubstituted symmetrical oxides RCHCH(R')O and the trisubstituted undergo rearrangement to ketones. In oxides with mixed radicals (aliphatic and

Card 1/3







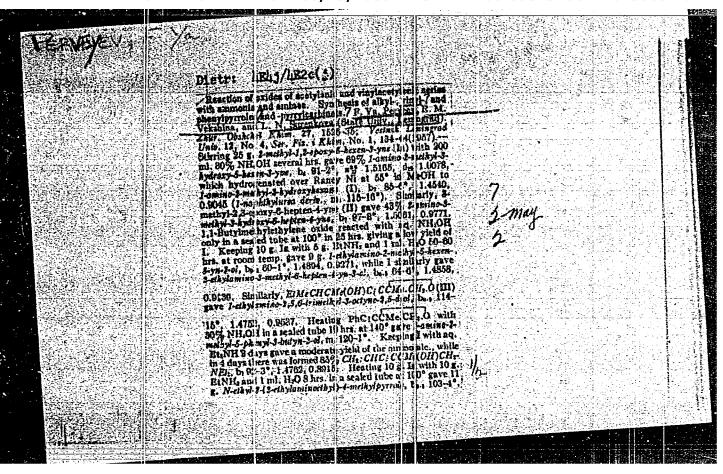
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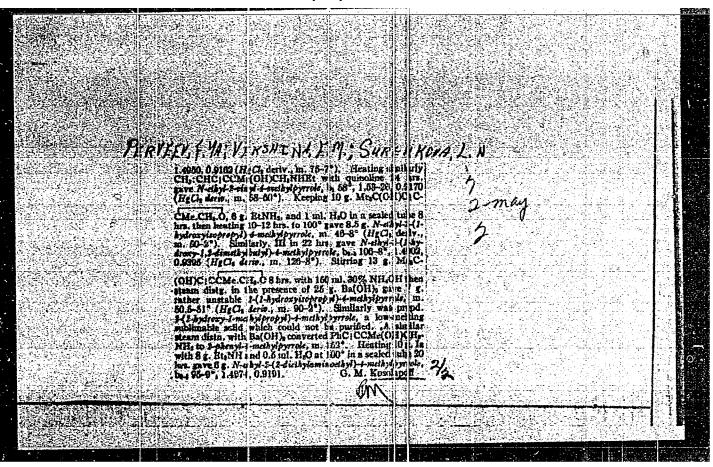
PERVEYEV, F.Ya.; VEKSHINA, Ye.M.; SURENKOVA, L.B.

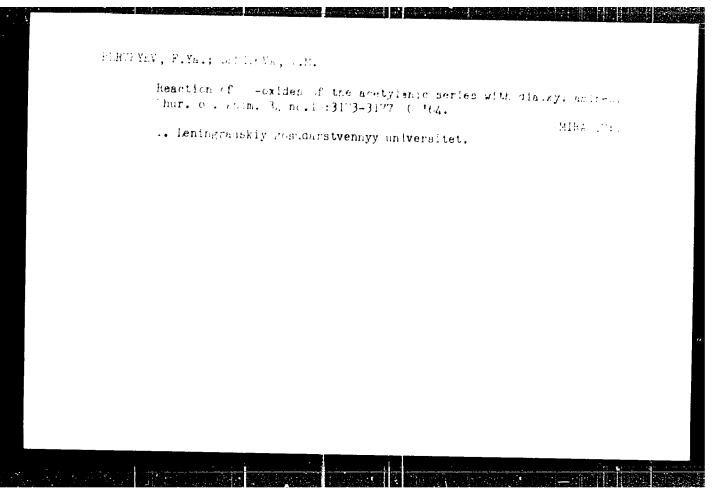
Interpretation of amounts and amines with & -oxi

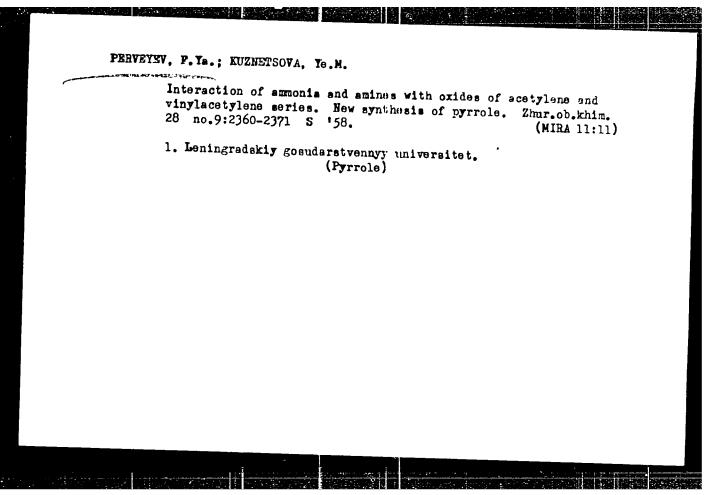
Interreaction of armonia and amines with 0, -oxides and hydroxyoxides of acetylenic and vinylacetylenic series. Synthesis of
alkyl, -vinyl, -phenylpyrroles and pyrrole-carbinols [with summary in English, p.154]. Vest. Len. un. 12 no.4:134-144 '57.

(Pyrroles) (Nethanol)









5(3) AUTHORS:

Perveyev, F. Ya., Statsevich, V. Ya.

S0V/75-29-7-6/83

TITLE:

Investigations in the Field of the Dioxides of the Acetylore Series. I (Issledovaniya u oblasti diokisey atsetilenov $\phi_{\mathbb{C}^{(n)}}$ ryada. I)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2132-2137 (USSL)

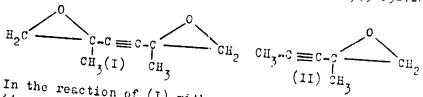
ABSTRACT:

The purpose of the present paper was the reaction of distributed the acetylene series with amines, a comparison of the reactivity of di- and monooxides of this series as well as the solution of the problem as to how the exide cycle opens under the action of amines, and under which conditions the forming diamino clicci: are transformed into the corresponding  $\beta$ -aminopyrryl carries Pyrrole homologs of this structure have hitherto not beer discribed in publications. The dioxides of the acetylene series have equally been little investigated so that the investigation of the opening of the oxide ring under the action of along it in alkaline or acid catalysis was of interest. The disking the dimethyl dioxydo-1,2-5,6-hexyne-3(I) served as initial substant

Card 1/3

Investigations in the Field of the Dioxides of the Acetylene Series. I

SOV/79-29-7-6/07



In the reaction of (I) with ammonia, methyl- and ethyl amine it was found that this dioxide has a higher reactivity than the monoxides of the acetylene series. Thus, (II) reacts with amines when heated in closed ampoules at 100°, in contrast to (I) which reacts explosion-like even with methylamine (without cooling). By the reaction of methylamine with (I) compound (III) is formed which in the case of longer heating passes into compound (IV). Thus, N-methyl-2-(1-oxy-2-methylamino isopropyl)-4-methyl pyrrole and N-ethyl-2-(1-oxy-2-ethyl-amino isopropyl)-4-methyl pyrrole it was found that in the reaction of the dioxide with alcohol dimethylhexyne-3-diol-2,5 and in acid catalysis 1,6-diethoxy-2,5-2,5-dimethylhexyne-3-diol-1,6 is formed.

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## CIA-RDP86-00513R001240130004-6 "APPROVED FOR RELEASE: 06/15/2000

Investigations in the Field of the Dioxides of the Acetylene Series. I

SOV/79-29-7-6/83

The spectroscopic investigation confirmed the above observations. There are 6 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvenny; universitet

(Leningrad State University)

SUBMITTED:

July 4, 1958

Card 3/3

5(3) AUTHORS:

Perveyev, F. Ya., Martinson, E.

SOV/79-29-9-24/76

TITLE:

Reaction of the  $\alpha\text{-Oxides}$  of the Acetylene Series With Diamines. A New Method of Synthesizing Dipyrroles.

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2922-2927 (USSR)

ABSTRACT:

Following the papers quoted in reference 1, which deal with the synthesis of pyrroles from 1,4-dicarbonyl compounds the author based their new investigations on the oxides mentioned in table 1 and studied their reaction with ethylene-, hexamethylene-, p-phenylene diamine which proceeded according to the given scheme. Pyrrole derivative (IV), a product of the reaction of oxide with an amino group of ethylene diamine, and pyrrole derivative (V), a product of the reaction of oxide with two NH2-groups of the diamine resulted from the

reaction of oxide (I) with ethylene diamine. The oxides (II) and (III) form the compounds (VI) and (VII) respectively with ethylene diamine. Oxide (I) together with hexamethylene

diamine yields pyrrole (VIII). Oxides (I) and (II) with

Card 1/2

p-phenylene diamine yield the compounds (IX) and (X). Table 2

Reaction of the a-Oxides of the Acetylene Series SOV/79-29-9-24/76 With Diamines. A New Method of Synthesizing Dipyrroles

> shows the constants of the synthesized compounds. The infrared absorption spectra obtained from six compounds prove clearly that the synthesized compounds have a pyrrole structure. Bands from the pyrrole spectrum were found in their spectra (Ref 2). The introduction of a large amount of substituents into the molecule of pyrrole was of course bound to have an effect upon the oscillations of the molecule. This makes clear that some of the bands are shifted and that in several cases double bands occur instead of a single band, or ewen several bands which do not occur in pyrrole. Already at a first sight a close relationship between the individual bands and the structure of the molecule can be observed (Table 3). There are 3 tables and 2 references, 1 of which is Soviet.

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ASSOCIATION:

Leningradskiy gosudarstvennyy universitet (Leningrad State

University)

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SUBMITTED:

July 4, 1958

Card 2/2

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AUTHORS:

Perceyev, F. Ya., Rikhter, K.

but were insoluble in water.

TITLE:

Reaction of Hydrogen Phosphide With Acetylenic Q -Oxides

PERIODICAL:

Zhurnal obshchey khimii, 1950, Vol 30, Nr 3, pp 784-

789 (USSR)

ABSTRACT:

Acetylenic oxides (I)-(TV) in reaction with monosodium phosphine gave new acetylenic hydroxyphosphines. 2-methyl-1, 3-epoxy-3-oxtyne (I) stirred for 30 hr with NaPH, gave 1-phosphiny1-2-methy1-2-hydroxy-3-oct, ne (V, yield 73%, bp 64-65° C at 0.5 mm; n20 1.4948, d<sub>4</sub> 0.9360). Similarly, 2-methyl-1,2-epoxy-3-pentyne (II) gave in 46 hr l-phosphinyl-2-methyl-2-hydroxy-3-pentyne (VI, yield 73% lp 50-51° C at 1 mm,  $n_D^{20}$  1.5063,  $d_{4}^{20}$  0.9880). The above phosphines were mobile liquids with the characteristic phosphine odor; they were readily soluble in methanol, ethyl acetate, ethyl ether,

Card 1/4

Reaction of Hydrogen. Phosphide With 78259 SOV/79-30-3-13/69

(I) Calgebra C C Calg. (II) Calgebra C Calg. (III) Calgebra C Calg. (III) Calgebra C Calg. (III) Calgebra C Calgebra Calg. (III) Calgebra C

Reaction of Hydrogen Phosphide With Acetylenic  $\alpha$ -Oxides

A Delivery of the Control of the Con

78259 80**V/**79-30-3-13/63

2-methyl-1,2-epoxy-5-hexen-3-yne (III) reacted readily with NaPH<sub>2</sub> but the reaction product polymerized completely. 2-methyl-1,3-epoxypentane (IV) in 50 hr stirring with NaPH<sub>2</sub> gave only traces of 2-methyl-2-hydroxy-pentyl phosphine. IR spectra of the hydroxy-phosphines taken with IKS-11 spectrograph showed the characteristic frequency of the P-H bond (2270-2440 cm-1). Dehydration of V and VI with diethylethylenediamine gave products with bp 140° C (1 mm) and 78° C (0.5 mm), respectively; the structure, according to their elemental composition, molecular weight, spectral analysis, and chemical properties should correspond to the formula:



Card 3/4

#### CIA-RDP86-00513R001240130004-6 "APPROVED FOR RELEASE: 06/15/2000

Reaction of Hydrogen Phosphide With

Acetylenic &-Oxides

78259 SOV/79-30-3-13/69

There are 3 tables; and 9 references, 1 U.S., 1 U.K., 3 German, 4 Soviet. The U.S and U.K. references are: H. Beachell, B. Katalafsky, J. Chem. Phys., 27 (1), 182 (1957); Robertson, Fox, J. Chem. Soc., 120, 120 (1925).

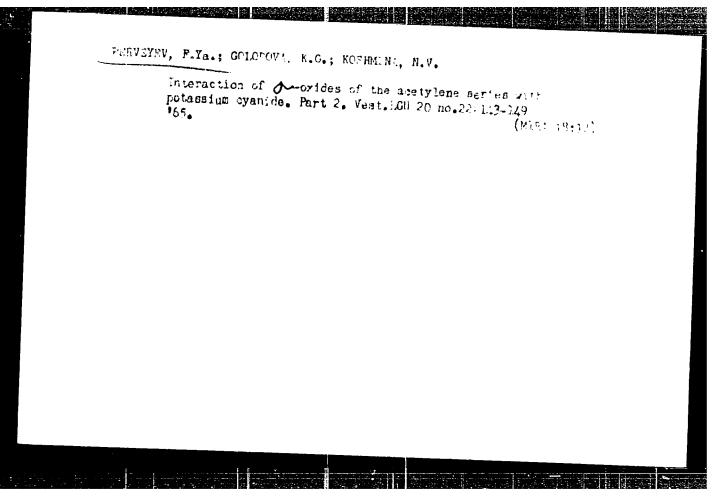
ASSOCIATION:

Leningrad State University (Leningradskiy gosudarstvennyy

SUBMITTED:

July 6, 1959

Card 4/4



RAZUVAYEV, G.A.; STEPOVIK, L.P.; PERVEYEV, F. Ya.; DEMIDOVA, V.M.;
ALANIYA, V.P.; SOKOLOV, N.A.; KHARCHENKO, V.G.; KRUPINA, T.I.;
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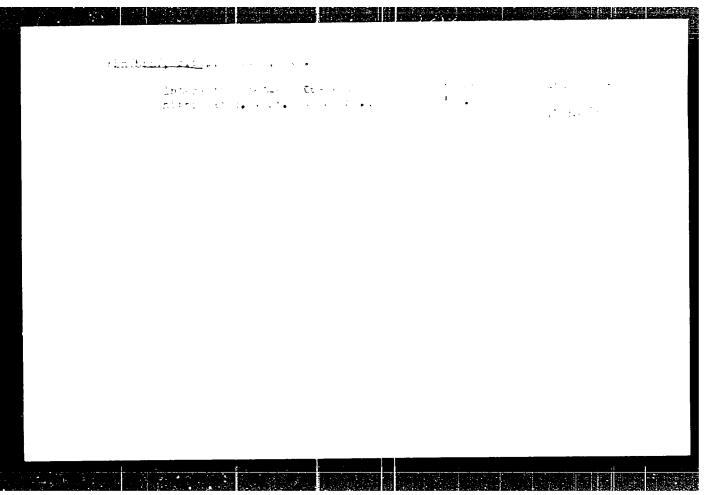
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1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (for Razuvayev, Stepovik). 2. Leningradskiy gosudarstvennyy universitet (for Perveyev, Demidova).
3. Moskovskiy institut neftekhimicheskoy i gazovoy promysh-lennosti imeni Gubkina (for Alaniya, Sokolov). 4. Sarstovskiy politekhnicheskiy institut (for Kharchenko, Krupina, Klimenko, Rassudova).

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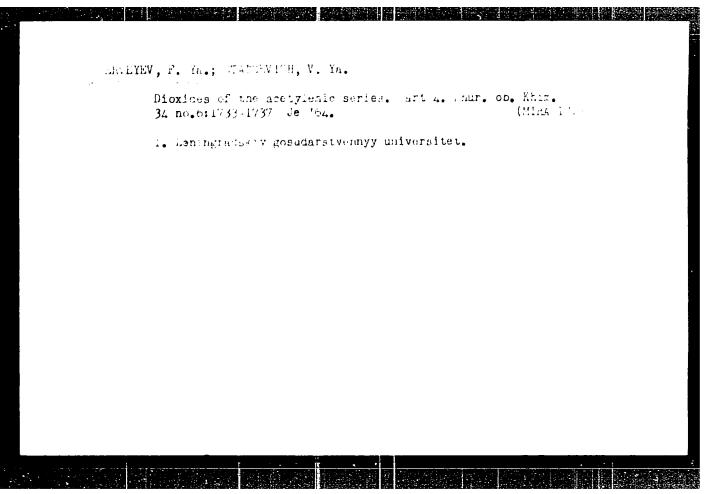
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