35803 5/120/62/000/001/053/061 E032/E314

11.3120 11.0950

AUTHOR:

TITLE:

Device for measuring the position of a liquid-helium

Pribory i tekhnika eksperimenta, no. 1, 1962, surface

PERIODICAL: 198

The device is in the form of a Ta spiral wound on a constantan wire which is used as a heater. The power supplied TEXT: to the heater is chosen so that it is sufficient to heat the part of the Ta spiral above the liquid to a temperature above the critical point but is insufficient to reduce the superconductivity of the part lying in the liquid helium. The Ta. wire employed was 0.2 mm in diameter and was wound with a pitch of 0.4 mm on a lacquered constantan wire, 0.5 mm in diameter. Current and voltage leads are taken out separately. required power is less than 0.02 W, the working heater current is 50 mA and the working current in the spiral is about 50 - 100 mA. The position of the surface can be determined

Card 1/2

CIA-RDP86-00513R000618820012-3" **APPROVED FOR RELEASE: 04/03/2001**

Device for

5/120/62/000/001/053/061

E052/E314

to within 1 - 2 mm. A.I. Shal'nikov is thank for advice and

assistance.

ASSOCIATION:

Fizicheskiy fakul'tet MGU

(Physics Division

of MGU)

SUBMITTED:

May 23, 1961

Card 2/2

 $04403-67 \quad EWT(1)/EWT(m)/T/EWP(t)/ETI$ IJP(c) JD/A'L SOURCE CODE: UR/0386/66/004/008/0311/0315 ACC NR: . AP6034424 AUTHOR: Isayeva, R. V. ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut); Institute of Physics Problems, Academy of Sciences SSSR (Institut fizicheskikh problem Akademii nauk SSSR) TITIE: Character of conduction-electron reflection from the surface of copper whisker SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 8, 1966, 311-315 TOPIC TAGS: copper whisker, fiber crystal, conduction electron, electron reflection ABSTRACT: It has been assumed until recently, on the basis of experimental data on both the conductivity of thin polycrystalline samples (foils, wires, films) and the anomalous skin effect, that practically all the electrons that participate in charge transport in real samples are scattered diffusely by the surface. To check on the relative roles of diffuse and specular reflection of the electrons from the surface of a thin conductor, the author studied the character of reflection of conduction electrons from the faces of filamentary single crystals of copper having small dimensions and a natural crystallographic faceting. The single-crystal whiskers were obtained by reducing spectrally pure copper iodide in a hydrogen stream at 610 - 620C. They were produced with three crystallographic orientations ([100] with square cross section [110] with rectangular section, and [111] with hexagonal section). A microscope was Card 1/2

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used to select for the investigations straight, elastic whiskers of uniform thickness, having different diameters and optically smooth surfaces with cross sections that were either hexagonal or differed little from square. Each investigated sample was placed between four single-crystal whiskers which acted like springs and served as current and voltage leads. The electric contacts were produced by dielectric breakdown. The sample resistance was measured at room and helium temperatures with a potentiometer circuit. Plots of the ratio of the resistance at room temperature and at 4.2K against the reciprocal of the whisker diameter are presented and are interpreted on the basis of the simplest theory of conductivity of thin samples of metals having a spherical Fermi surface. Linear extrapolation of the obtained data to infinite thickness (bulk sample) shows that the investigated samples had dimensions ($d = 3.85 - 20 \mu$) smaller than or of the order of the mean free path of the conduction electrons, from which it is deduced that 60% of the conduction electrons are reflected from the surface specularly. The presence of partial specular reflection can be demonstrated without; assuming uniform purity of the investigated whiskers. It is possible that when the experimental conditions are improved the specular reflection of the electrons from the surface of \single-crystal whiskers can be made complete. In particular, it would be advantageous to eliminate the possibility of oxidation of the sample surface in air. The author thanks Academician P. L. Kapitsa for the opportunity of working at the Institute of Physics Problems, AN SSSR, to Yu. V. Sharvin for guidance, and Yu. A. Osip' yan for interest in the work. Orig. art. has: 1 figure and 2 formulas.

BUB CODE: 20/

SUBM DATE: 18Jul66/

8Jul66/ ORIG REF: 002/

OTH REF: 010

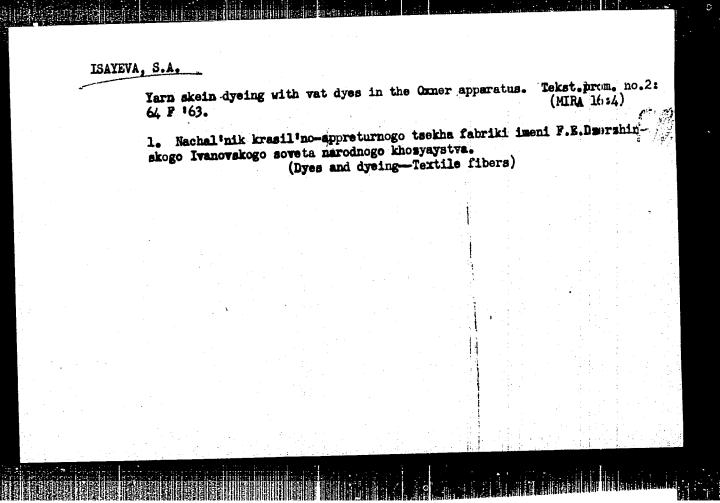
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reige til etter

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618820012-3"

USSR / Pharmacology and Toxicology. Medicinal Plants. : Ref. Zhur - Biologiya, No 17, 1958, No. 80644 Abs Jour : Guseynov, D. Ya.; Damirov, I. A.; Isayeva, S. A. Author : Phytodhemical and Pharmacological Investigations of the Inst Ephedra Procers That Grove in Azerbaydzhan Title : Izv. AN Azertsen, 1957, No 3, 111-120 Orig Pub : During a test on mice of an aqueous extract (I) and a tincture (II) from the Ephedra process herb, it was estab. Abstract lished that I does not possess a toxic effect, but II in a dose of 1 ml causes the death of the majority of the mice. In experiments on isolated heart of frogs, a 1% solution of II decreases the amplitude of heart contractions, while a 3% solution causes stoppege of the heart. An analogous result was obtained during the use of I in significantly greater concentrations. In isolated vessels of warmblooded 1 483 60 Card 1/2



AT4010228

s/3056/63/000/000/0076/00**8**4

ACCESSION NR: Borovenko, E. V.; Volkovitskiy, O. A.; Zolotarev, L. M.; Isayeva,

AUTHOR: TITLE: Effect of the construction of a 300-meter meteorological tower on measurements of wind velocity

SOURCE: Issledovaniye nizhnego 300-metrovogo sloya atmosfery*. Moscow, 1963,

TOPIC TAGS: meteorology, wind, wind velocity measurement, meteorological tower, meteorological tower construction, anemograph, anemometer, rhumbograph

ABSTRACT: Since the main disturbances in wind velocity recording are caused by the cylindrical body of the tower, all the calculations in this paper concern flow determination of an ideal fluid around a stationary cylinder (mathematical formulations are given for flow around a cylinder, the rate of flow, the relationship of the rate of flow to the rate at infinity, and their dependence on tower radius and angle of the monitor). In September and October of 1961 a series of special measurements was carried out using a remote photoimpact anemograph and unidimensional rhumbographs. The examples, tables, and conclusions are based on the results of these observations. It was found that the effect of the tower on readings of wind velocity was in the range of + 3%. No significant effects on Card 1/2

ACCESSION NR: AT4010228

wind velocity readings were produced by other types of tower appurtenances (i.e. balcony, railing, etc.). In an arrangement where the anemometers were placed at a distance r > 12 meters, the effect of the tower on their readings was expressed by a deviation of approximately 1%, which is not significant in practice. The smallest effect on wind velocity readings was observed when the anemometers were turned into the wind at an angle of $\pm 45^{\circ}$, and for monitors turned with the wind the effect of the tower (r = 7.5 meters) did not exceed 1.5°. Orig. art. has: 8 figures, 1 table, and 9 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 20Feb64

ENCL: 00

SUB CODE: AS

NO REF SOV: 002

THER: 000

Cerd 2/2

ISAIEVA, S.G. Asst Professor (Belaya Tserkov')

"On the Baw Surgical Approach of Ovariectomy in Cows"

Report given at 13th Inter-VUZ(Higher Educational Insts.) Scientific-Industrial Conference, held February, 1956 at Kiev Vet Inst.

RUBAN, N.N.; VINOGRADOVA, K.A.; ISAYEVA, C.M.; AVETISYAN, Yu.A.

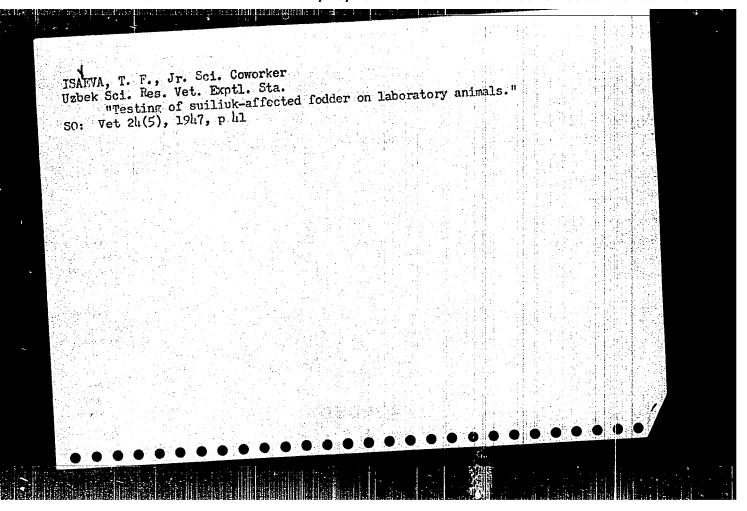
Determining small quantities of aluminum in systems containing aluminum and vanadium chlorides. Trudy Inst. met. 1 obog. AN

(MIRA 18:10)

Kazakh. SSR 12:120-124 165.

SENDBEKOVA, O.G.; ISEYEVA, Sh.A.; AIMAMEDOV, G.G.; DADASHEV, B.A.

Alkyl urothanes and the synthesis of methylene-bis-alkyl urethane.
Azerb. khim.zhur. no.4:89-92 *64. (MIRA 18:3)



APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618820012-3"

ISAYEVA, T.M.

USSR/Human and Animal Physiology - Lipoid Metabolism.

R-3

Abs Jour

: Referat Zhur - Biologii, No 16, 1957, 70483D

Author

: Isayeva, T.M.

Inst Title

: Dynamics of Several Representatives of Lipoid Metabolism

in Botkin's Disease

Orig Pub

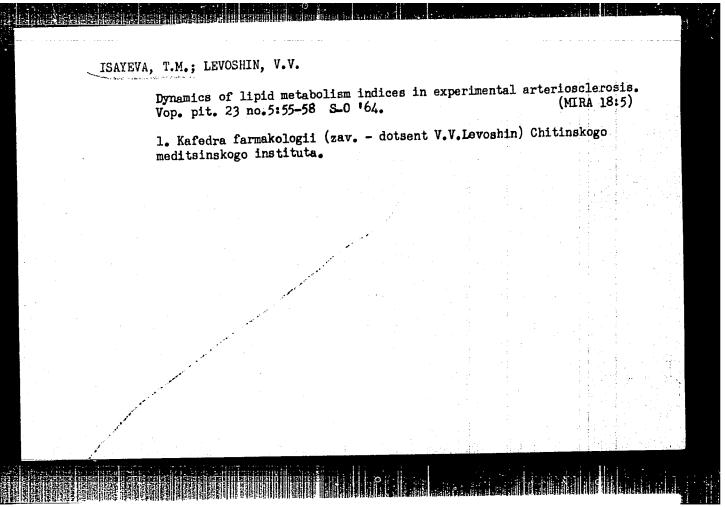
: Avtoref. Diss. Kand. med. n. Khabarov, med. in-t

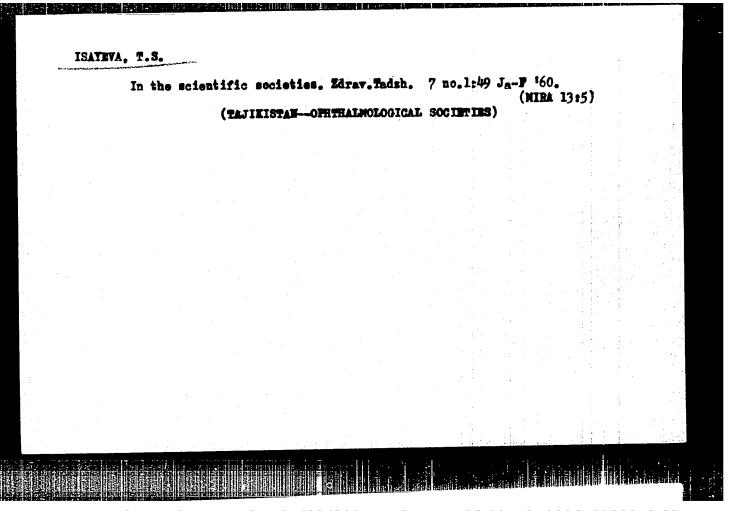
Blagoveshchensk, 1957,

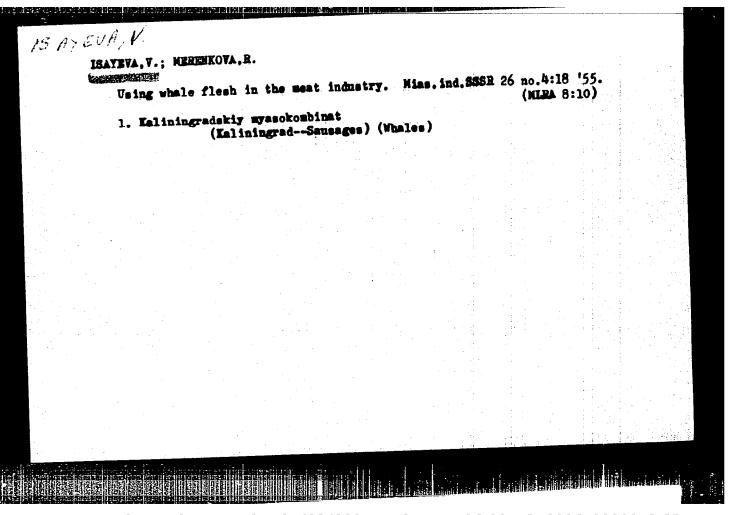
Abstract : No abstract.

Card 1/1

97 -







AVER YANOV, A.; ISAYEVA, V.

Pilot plant of the All-Union Scientific Research Institute of Synthetic Fibers for the manufacturing of polyolefin fibers. (MIRA 18:2) Khim. volok. no.1:78 165.

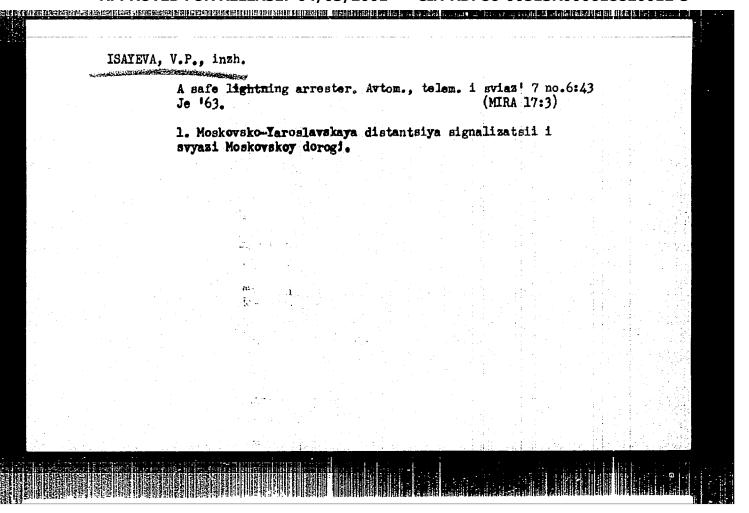
1. Viesoyusnyy nauchno-issledovatel'skiy institut sinteticheskogo volokna, g. Kalinin.

ADEADISANT	UR/0286/65/000/015/0072/0472	
ACCESSION NR: AP5024391	677.499.108	
AUTHOR: Fil'bert, D. V.; I	sayeva, V. I. odi	
TITLE: A mathod for produc	ing modified polypropylene fiber. Class 29, No. 1'3379	
	eniy i tovarnykh znakov, no. 15, 1965, 72	
TOPIC TAGS: synthetic fibe	300 C C C C 是5 C C 和 C C C C C C C C C C C C C C C C	
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ABSTRACT: This Author's Ce	ertificate introduces a method for producing modified	
polypropylene fiber from a	ertificate introduces a method for producing modified mixture of polypropylene and another component. The ake up the color of dispersed dyes is improved by using a	地方
polypropylene fiber from a	mixture of polypropy and dispersed dves is improved by using a	
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ISAYEVA, V.P., insh.

Experience in balancing cables. Avtom., telem.i svias' 7
no.3:42-43 Mr '63. (MIRA 16:2)

1. Moskovsko-Varoslavskaya distantsiya signalizatsii i svyasi
Hoskovskoy dorogi. (Electric cables)



ZHVIRBLYANSKAYA, A.Yu.; ISAYEVA, V.S.

Effect of biomycin and terramycin on Achromobacter genus bacteria.

Trudy TSentr.nauch.-issl.inst.piv., bezalk. i vin.prom. no.11:3-16
163. (MIRA 17:9)

SHAPOSHNIKOVA, V.N.; NOVIKOVA, C.A.; ISAYEVA, V.S.

Development of Proteus vulgaris on synthetic media. Vest. Mosk.
un. Ser. 6: Biol., poohv. 20 no.6:29-32 N-D '65.

(MIRA 19:1)

1. Kafedra mikrobiologii Moskovskogo gosudarstvennogo universiteta.
Submitted December 17, 1964.

KOTLYAR, Mikhail Davydovich; ALEKSANDROV, Mark Aleksandrovich; ISAYEVA.

V.V., vedushchiy red.; MIKHIMA, E.A., tekhn.red.

[Drilling practices of the progressive Al'met'evek Oil Well
Drilling Trust] Opyt raboty peredovogo treate Al'met'evburneft'.

Moskva, Gos.neuchno-tekhn.isd-vo neft. i gorno-toplivnoi lit-ry.

1959. 52 p.

(Al'met'yevsk region--Oil well drilling)

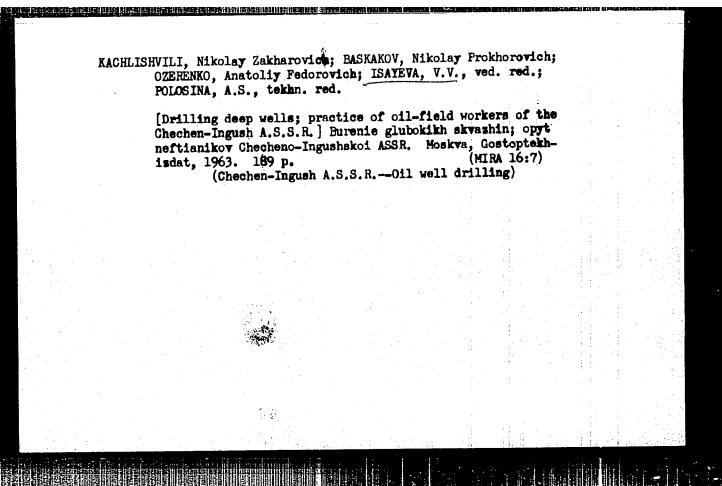
(MIRA 13:11)

TIMOFEYEV, Nikolay Stepanovich; BELORUSSOV, Vladimir Olegovich; ISAYEVA, V.V., ved. red.; BASHMAKOV, G.M., tekhn. red.

[Drilling vertical wells under geological conditions facilitating well curvature] Burenie vertikal nykh skvazhin v geologicheskikh uslovijakh, sposobstvujushchikh iskrivleniju skvazhin. Moskva, Gostoptekhizdat, 1962. 124 p.

(MIRA 15:10)

(Oil well drilling)



KHAMILULLIN, Nazin Khayrullovich; KHABIEULLIN, Rashid Akhmadullovich; GORKIN, S.F., red.; ISAYEVA, V.V., ved. red.; STAROSTINA, L.D., tekhn. red.

[Work organization in the construction of oil wells; practices of petroleum workers in the Tatar A.S.S.R.] Organizatsiia proizvodstva pri sooruzhenii neftianykh skvazhin; opyt neftianikov Tatarskoi ASSR. Moskva, Gostoptekhizdat, 1963. 75 p. (MIRA 17:1) (Tatar A.S.S.R.—Oil well drilling—Management)

STESHENKO, Nikolay Nikitich; TARASOV, D.A., red.; ISAYEVA. V.V., ved.; VORONOVA, V.V., tekhn. red.

[Manual on the installation and repair of belectrical systems on premises subject to explosion hazards in the petroleum and gas industry] Spravochnik po montashu i remontu elektrovistanovok vo vzryvoopasnykh sooruzheniiakh neftianoi i gazovoi promyshlennosti. Moskva, Izd-vo "Nedra," 1964. 419 p. (MIRA 17:3)

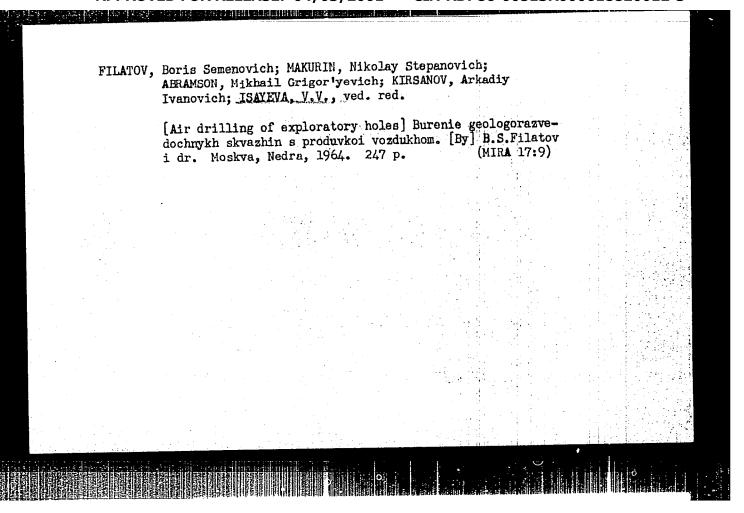
BERKOVICH, Mikhail Yakovlevich; SINOPLIS, Leonid Aleksandrovich; KHIEBNIKOV, Nikolay Vasil'yevich; ROSHCHIN, P.F., red.; ISAYEVA, V.V., ved. red.

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[Preventing and eliminating accidents in structural drilling] Preduprezhdenie i likvidatsiia avarii v strukturnopoiskovom burenii. Moskva, Izd-vo "Nedra," 1964. 178 p. (MIRA 17:7)

OVNATAMOV, Gurgen Tomasovich; PRITULA, Yu. ..., red.; ISAYEVA, V.V., ved. red.

[Drilling in and treating strata; theoretical and experimental investigations of the drilling in and treatment of the bottom zone of a stratum which is an oil and gas reservoir of the fractured type] Vskrytie i obrabotka plasta; teoreticheskie i eksperimental nye issledovaniia vskrytiia i obrabotki prizaboinoi zony plasta, predstavlennogo kollektorami nefti i gaza treshchimnego tipa. Moskva, 1xdvo Nedra, 1964. 265 p. (MIR. 17:8)



SHEVALDIN, Ivan Yegorovich; ISAYEVA, V.V., ved. red.

[Natural drilling muds for well drilling] Estestvennye promyvochnye zhidkosti dlia burenila skvazhin. Moskva, Nedra, 1964. 170 p. (MIRA 18:1)

BHONZOV, Anatoliy Samsonovich; VASJL'YEV, Yuriy Sergayevich;
SHETLER, Georgiy Arvidovich; GRIGOR'YEV, V.1., red.;
ISAYEVA V.V., ved. red.

[Turbodrilling of inclined wells] Turbinnoe burenie naklonnykh skvazhin. 2. dop. i perer. izd. Moskva, Nedra, 1965.
247 p. (MIRA 18:4)

YEREMENKO, Terentiy Yefimovich; Bulatov, A.I., red.; ISAYEVA,
V.V., ved. red.

[Bracing oil and gas wells] Kreplenie neftianykh i gazovykh skvazhin. Moskva, Nedra, 1965. 213 p.

(MIRA 18:5)

ISAYEVA, V.V. Regeneration and somatic embryogeny of Convoluta convoluta (Turtellaria, Accela). Nauch.dokl.vys.shkoly; biol.nauki no.3:12-14 '65. (MRA 18:8) 1. Rekomendovana kafedroy embriologii Leningradskogo gosudarstvennogo universiteta im. A.A.Zhdanova.

ISAYEVA, V.V.

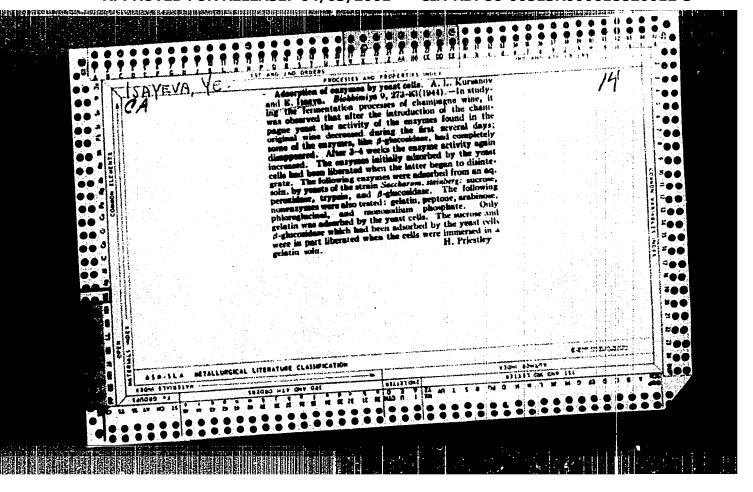
Reaction of Amoeba proteus (Pall.) of different age to some injurious actions. Nauch.dokl. vys. shkoly; biol. nauki no. 2: 11-14 '64. (MIRA 17:5)

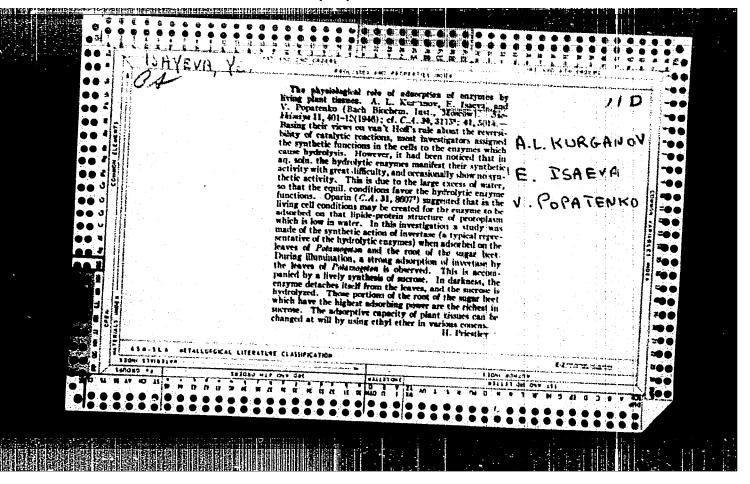
1. Rekomendovana kafedroy embriologii Leningradskogo gosudarstvennogo universiteta im. A.A.Zhdanova.

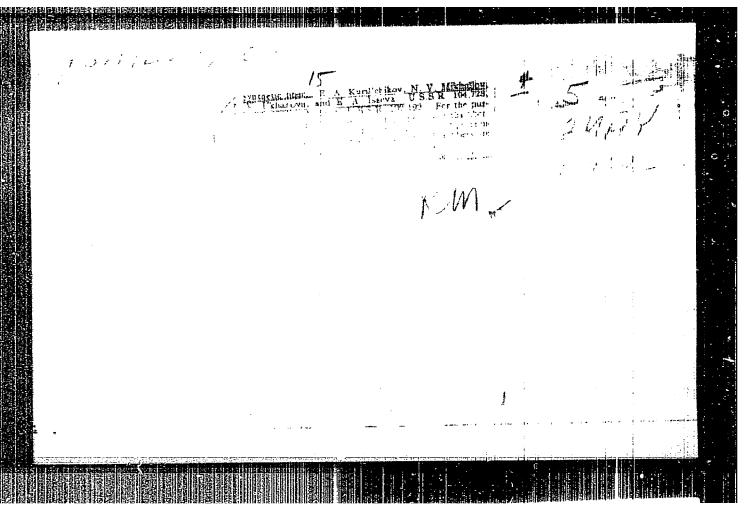
- 1. ISAYEVA, Ya
- 2. USSR (600)
- 4. Beetles
- 7. Onion shout beetle and ways to control it. Sad i og. no. 11, 1952

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

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618820012-3







5/186/62/004/003/015/022 E071/E433

AUTHORS: . Isayeva, Ye.A., Makasheva, I.Ye., Maslov, I.A.,

Obukhov, A.P.

TITLE: Chemical identification of phosphorus and thallium in

the quantitative neutron activation analysis

PERIODICAL: Radiokhimiya, v.4, no.3, 1962, 345-350

TEXT: The determination of admixtures by the activation analysis is usually associated with their radiometric identification for which the separation and purification to "radiometric purity" is which the separation and purification to "radiometric purity" is necessary. The authors attempted to improve the method of chemical separation of phosphorus and thallium (the knowledge of the content of which in some materials such as semiconductor the content of which in some materials such as semiconductor silicon and germanium, luminophors, etc is necessary) so as to exclude the necessity for radiometric identification. The method of separation of P32 and T1204 in the form of T12Cr204 and of separation of P32 and T1204 in the form of T12Cr204 and mixtures containing Fe59, Zn65, Agllom, Inl14m, Sb124, Ta182 and mixtures containing Fe59, Zn65, Agllom, Inl14m, Sb124, Ta182 and Bi210 and by imitating the separation of phosphorus and thallium from irradiated specimens in which the amount of individual Card 1/2

L-18280-63 EWP(q)/EWT(m)/BBS AFFTO/ASB -BD/JG-ACCESSION NR: AP3004945 s/0075/65/018/008/0979/0985 AUTHOR: Isayeva, Ye. A.; Makasheva, I. Ye.; Obukhov, A. P. 7/ TITLE: Analysis of pure silicon carbide by neutron activation 9 SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1965, 979-985 TOPIC TAGS: silicon carbide, trace analysis, neutron activation, activation analysis, neutron activation analysis, inpurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 52, phorus, impurity, copper 64, zinc 69m, arsen	
AUTHOR: Isayeva, Ye. A.; Makasheva, 1. 15., 979. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	
AUTHOR: Isayeva, Ye. A.; Makasheva, 1. 15., 979. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	
AUTHOR: Isayeva, Ye. A.; Makasheva, 1. 16., open serious of pure silicon carbide by neutron activation of the serious of pure silicon carbide by neutron activation of the serious of the	
AUTHOR: Isayeva, Ye. A.; Makasheva, 1. 10. TITLE: Analysis of pure silicon carbide by neutron activation 9 SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1963, 979-983 TOPIC TAGS: silicon carbide, trace analysis, neutron activation, activation analysis, neutron activation analysis, zinc, copper, arsenic, antimony, phospharus 32, analysis, neutron activation analysis, zinc, copper, arsenic, antimony 122, phosphorus 32, analysis, neutron activation of the proper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation of the proper 64.	
AUTHOR: Isayeva, Ye. A.; Makasheva, 1. 1e., 7 TITLE: Analysis of pure silicon carbide by neutron activation 9 SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1963, 979-983 SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1963, 979-983 TOPIC TAGS: silicon carbide, trace analysis, neutron activation, activation analysis, neutron activation analysis, zinc, copper, arsenic, antimony, phosphorus 32, analysis, neutron activation analysis, zinc, copper, arsenic, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron 9, arsenic 76, antimony 122, phosphorus 32, analysis, neutron 9, analysis, neutron	
SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1963, 979-983 SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1963, 979-983 TOPIC TAGS: silicon carbide, trace analysis, neutron activation, activation analysis, neutron activation analysis, zinc, copper, arsenic, antimony, phospanalysis, neutron activation analysis, zinc, copper, arsenic, antimony, phospanalysis, neutron activation analysis, zinc, copper, arsenic, antimony 122, phosphorus 32, analysis, neutron activation.	
SOURCE: Zhurnal analiticheskoy khimii, v. 18, no. 8, 1903, 1	
TOPIC TAGS: silicon carbide, trace analysis, neutron activation, activation, activation analysis, zinc, copper, arsenic, antimony, phosanalysis, neutron activation analysis, zinc, copper, arsenic, antimony 122, phosphorus 32, analysis, neutron activation analysis, zinc, copper, arsenic 76, antimony 122, phosphorus 32, analysis, copper 64, zinc 69m, arsenic 76, antimony 122, phosphorus 32,	
TOPIC TAGS: silicon carbide, trace analysis, neutron activation, activation, activation analysis, zinc, copper, arsenic, antimony, phosenalysis, neutron activation analysis, zinc, copper, arsenic, antimony 122, phosphorus 32, analysis, neutron activation analysis, zinc, copper, arsenic 76, antimony 122, phosphorus 32, analysis, neutron activation, acti	
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of immurities - zinc, copper, arsenic, antimoty, and	
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γ-activity of Zn ^{69m} , Cu ⁶⁴ , As ⁷⁶ , and Sb ¹²² isotopes with an end-window β-counter. trometer and the β-activity of the P ³² isotope with an end-window β-counter. trometer and the β-activity of the p ³² isotope with an end-window β-counter.	
trometer and the practiced by irradiating encapsulated Sic samples irradiated	-
trometer and the produced by irradiating encapsulated SiC samples irradiated. The isotopes were produced by irradiating encapsulated SiC samples irradiated with n·10 ¹³ thermal neutrons/cm ² ·sec in a nuclear reactor. To the irradiated with n·10 ¹³ thermal neutrons/cm ² ·sec in a nuclear reactor. To the irradiated sample were added 5—10 mg of Zn, Cu, As, Sb, and P, as carriers for the sample were added 5—10 mg of Zn, Cu, As, Sb, and P, as carriers for the	
sample were added)—10 mg	1
Card 1/3)	
<u> 통료로 있는 양보다 하는 한 문문로 중요한 원리로부터 발표하는 요즘 나는 사람들들은</u>	•
- 5.(2/86)	

5(3)

AUTHORS: Berlin, A. A., Popova, G. L.,

807/20-123-2-20/50

Isayeva, Ye. F.

TITLE:

Condensation Telomerization and a New Type of Unsaturated Polyesters (Polyester Acrylates) (0 kondensatsionncy telomerizatsii i novom tipe nepredel'nykh poliefirov (poliefirakrilaty))

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 282 - 284 (USSR)

ABSTRACT:

The di- and polyfunctional acrylates differ from the corresponding simple di-esters of allyl and vinyl alcohol by the fact that the velocity of their polymerization increases with the increase of the distances between the double bonds (Refs 1, 2). The possibility of producing highly active di- and polyfunctional monomers with a considerable length of the cross connections is theoretically as well as practically of interest. It is possible: 1.-That the elasticity of the cross connection is varied. 2.-The contraction is the transition from the monomer to the polymer is controlled. 3.-Heat-resistant polymers with a wide range of physical and mechanical properties are produced. For the

Card 1/3

Condensation Telomerization and a New Type of Unsaturated Polyesters (Polyester Acrylates)

SOV/20-123-2-20/50

synthesis of such substances the authors used the principle of the control of the growth of the chain in the polyesterification of dibasic acids by glycols and glycerin by means of the addition of methacrylic- (or acrylic) acid. This method of producing relatively low-molecular compounds with a predetermined type of functional end groups can be regarded as an example of telomerization taking place according to a condensation mechanism ("condensation telomerization"). The mechanism of this type of reaction is still unknown. There is reason to believe that acidolysis processes take place in the polyesterification. A probable formation scheme of the polyesters in question (the authors call it "polyester acrylates"(poliefirakrilaty)) is given. The mentioned telomerization was carried out in the medium of inert solvents (benzene, toluene) with an azeotropic distilling off of the reaction water. Phosphoric, sulfuric, ethyl-sulfuric and p-toluene-sulfonic acids were used as catalysts. The highest velocity (8 - 12 hours) and the best yields (85 -95%) were obtained when using a 2 - 3% sulfuric or p-toluenesulfonic acid in the presence of 0.5 - 0.8% hydroquinone.

Card 2/3

Condensation Telomerization and a New Type of Unsaturated Polyesters (Polyester Acrylates)

507/20-123-2-20/50

The degree of polymerization mainly depends on the dosing of the methacrylic (or acrylic) acid. The fractional distillation of the polyester acrylates failed due to their low volatility and their great tendency to polymerize. The substances mentioned above are more and more used for the production of various polymeric materials. There are 2 tables and 5 references, 4 of which are Soviet.

PRESENTED:

June 25, 1958 by A. V. Topchiyev, Academician

SUBMITTED:

June 23, 1958

Card 3/3

BERLIN, A.A.; POPOVA, G.L.; ISAYEVA, Ye.F.

Polymerization and properties of polymers of mixed polysters of the acrylic series. Vysoko.soed. 1 no.7 Jl '59. (MIRA 12:11)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut aviatsionnyka materialov. (Acrylic acid)

BERLIN, A.A.; POPOVA, G.L.; ISAYEVA, Ye.F.

Condensation telemerization and synthesis of a new type of unsaturated polyesters. Vysokom.soed. 1 no.7:951-956 J1 '59. (MIRA 12:11)

1. Vsessoyuznyy nauchno-issledovatel skiy institut aviatsionnykh materialov. (Esters) (Polymerisation)

5(3) AUTHORS:

Berlin, A. A., Popova, G. L., Isayeva, Ye. F. SOV/20-126-1-22/62

TITLE:

Investigation of the Polymerization and Properties of Mixed Polyethers of the Acryl Series (Issledovaniye polimerizatsii i svoystv smeshamykh poliefirov akrilovogo ryada)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 83-85 (USSR)

ABSTRACT:

The authors reported in a previous paper (Ref 1) on the synthesis of a new group of derivatives of the acryl series - the polyester acrylates. In the present paper the relation between the structure of these substances, their capacity of a tridimensional polymerization, and the physical-mechanical properties of the polymers were investigated. The following compounds served for this purpose: 1) dimethacrylate-(bis-ethylene-glycol)-phthalate,

2) dimethacrylate-(bis-diethylene-glycel)-phthalate,

3) dimethacrylate-(bis-triethylene-glycol)-phthalate,
4) dimethacrylate-(bis-triethylene-glycol)-sebacinate,

5) tetramethacrylate-(bis-glycerin)-phthalate, and

6) tetramethacrylate-(bis-glycerin)-sebacinate.

The substances enumerated differed from one another by the dimensions and flexibility of the groups which form the cross connections of the spatial structure of the polymer as well as by

Card 1/4

Investigation of the Polymerization and Properties of Mixed SQV/20-126-1-22/62 Folyethers of the Acryl Series

the number of reactive double bonds. The polymerization was carried out at 65° and 20-25° in the presence of benzoyl peroxide. The investigation of the polymerization kinetics showed that the polymerization of the tetra- and coto-functional polyester acrylates is in all cases preceded by an induction period. During this period neither the viscosity nor the refractive index change. In the subsequent period the whole mass of the monomer is instantaneously gelatinized. The fluidity vanished completely and insoluble tridimensional polymers were produced. The rates of polymerization of an octo-functional substance (above mentioned Nr 5, Figs 1:1) and of a tetra-functional (Nr 2, Figs 1:2) were compared in order to clarify the effect of the molecular functional capacity of the polyester acrylates on their capacity of a tridimensional polymerization. This shows that the rate of polymerization rises rapidly with the increase of the number of double bonds. The opto-functional Nr 5 and 6 are in contrast to the tetra-functional ones able to produce glasslike polymers (Fig 2). The comparison of the curves 1 and 2 (Fig 2 cursive) shows that the rate of polymerization of different esters of the

Card. 2/4

 Investigation of the Polymerization and Properties of Mixed SOV/20-126-1-22/62 Polyethers of the Acryl Series

same functional capacity depends on the distance of the reactive groups from one another. Atmospheric oxygen inhibits the polymerization reaction. The introduction of a siccative eliminates the last mentioned phenomenon. Table I shows the toughness and the strength of the non-meltable glasslike polymers with the reduction of the density of packing of the cross-linked (sshity) chain macromolecules (Experiments Nr 1-4) and with the increase of the flexibility of the cross-linking (sahivayushchiy) groups (Experiments 4 and 5). Thus the polyester acrylates open production possibilities of polymers with a minimum change in volume as well as with a combination of a high thermal stability, strength, and toughness. They can find a wide range of application. There are 2 figures, 1 table, and 2 Soviet references.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut aviatsionnykh materialov (All-union Scientific Research Institute of Airplane Material)

PRESENTED: Card 3/4 March 2, 1959 by A. V. Topchiyev, Academician

Investigation of the Polymerization and Properties of Mixed SOV/20-126-1-22/62
Polyethers of the Acryl Series
SURMITTED: June 23, 1958

Card 4/4

ISAYEVA, Me.N.

PHASE I BOOK EXPLOITATION

360

Moscow. Tsentral 'nyy institut prognozov

- Voprosy sinopticheskoy meteorologii (Problems in Sinoptic Meteorology)
 Leningrad, Gidrometeoizdat, 1957. 129 p (Series: Its Trudy,
 vyp. 52) 1,100 copies printed.
- Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR
- Ed. (Title page): Tomashevich, L. V.; Ed. (inside book): Pisarevskaya, V. D.; Tech. Ed.: Soloveychik, A. A.
- PURPOSE: The collection of articles is intended for employees of the meteorological service as well as for these interested in the activities of the Central Institute of Forecasting.
- COVERAGE: The collection of articles analyzes the causes of incorrect short-term weather predictions and explains the nature of the errors.

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360

The forecast for this particular date was rain at night and cool during the day. The prediction was based on the observed cyclogenesis by night (and early in the morning) on May 30. The enclosed maps show: 1) weather conditions at 3 o'clock a.m. on May 30 2) thermal and baric conditions at 6 o'clock a.m. on May 30 3) forecast for 3 o'clock a.m. for May 31 4) actual weather situation at 3 o'clock a.m. on May 31. The prediction failed: there was no rain by night and the temperature on May 31 was 22° C. The error was due to incorrect forecasting of baric pressure; this is illustrated by two additional maps. There are 5 maps and no references.

Mertsalov, A. N. Two Cases of Convective Rain

15

The article discusses two cases of erroneous weather preduction in Moskovskaya oblast' for July 29 and 30, 1954 due to convective rain. On July 28 in the evening, the prediction for the following day was no rain. This prediction was repeated the next morning. Nevertheless, it rained heavily with precipitation Card 3/8

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mounting to 35.2 mm. The prognostics for July 30 read: scattered showers. In fact, it rained throughout the entire Moskovskaya oblast' with precipitation ranging from 8 to 18.9 mm. As a cyclone was moving westward covering the whole oblast, the rainfall was caused by convective instability. Because of an incorrect diagnosis of the baric field on the eve of the rainfall, the movement of the cyclone was not predicted in the forecast. There are 12 synoptic maps illustrating the above two cases and 3 Soviet references.

Isayeva, Ye. N. Analysis of the Erroneous Weather Forecast for July 28, 1954

31

The forecast for Moskovskaya oblast' for this date was rain. The error was caused by incorrect prediction of the movement of a cyclone approaching Moscow from the Baltic area. Two maps show the baric pressure near the surface and the thermal and baric situations on the morning of July 27. The author explains the mistake made in the analysis of this situation and shows how and why the expected cyclone by-passed Moscow. There are two synoptic maps, 1 table and no references. Gard 4/8

360

Tomashevich, L. V. Analysis of the Erroneous Weather Forecast for May 2, 1954

35

The Moscow forecast for this date, confirmed on the morning of May 2nd read: partially cloudy, no rain, with daily temperature of 20 to 22°C. The error was caused by an unexpected retardation in the movement of two warm fronts from the South, which produced rain and with it a drop in temperature to 10°C. There are 3 synoptic maps and 2 Soviet references.

Bachurina, A. A. Analysis of the Incorrect Weather Forecast for June 26, 1954

40

The Moscow forecast for this date read: some cloudiness, no rain, daily temperature from 22 to 27°C. This was confirmed on the morning of June 26th. The error was due to incorrect evaluation of the factors causing precipitation. The capital was hit by torrential rains and the rain was persistent. Evolution of the zone of rain progressed from the direction of Card 5/8

360

Smolensk but this had not been foreseen by the forecast service. There are 6 figures, 2 tables and no references.

Gorodova, M. I. Storm on July 4, 1954

¥7

The storm was not predicted in the morning forecast for Moscow. The synoptic map for this day was made at 3 o'clock in the morning. Although a slowly moving anticyclone was expected to reach the area of Moscow some time in the afternoon, no immediate rain was predicted. Nevertheless, the storm came at 5:30 a.m. and lasted until 11 a.m. The storm resulted from instability produced by the advection of saturated air, while the adiabatic gradient created conditions for convective rain. There are 7 drawings, 2 tables and 3 Soviet references.

Card 6/8

RECURING CONTROL OF THE CONTROL OF T

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Cherkasskaya, V. M. Torrential Rains in the Ridge of High Pressure on August 12 and 13, 1954

57

For August 13th the Moscow forecast read: no precipitation. However, the whole oblast was hit in the evening by torrential rains amounting to 30 mm in the capital. The prediction was based on the position of isallohypsal lines and on the calculation of the movement of a depression, the axis of which expected to be east of Moscow towards evening. The convective instability was created by adiabatic decrease in temperature at 500 millibar level and by the advection of colder air at a 700-850 millibar level. There are 8 figures and 1 Soviet reference.

Neronova, L. M. Distribution of Summer Precipitation in Moskovskaya Oblast'

67

Since the majority of incorrect weather predictions in 1954 in Moskovskaya oblast' concerned precipitation, the author Card 7/8

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618820012-3"

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analyzes the total distribution of rainfall throughout the entire oblast from the point of view of both intensity and occurrence. The author refers to previous attempts by I.I. Kasatkin to sum up the distribution of rainfall in the area of Moscow. The article includes a map of all meteorological stations in the oblast and draws general conclusions as to the amount of rainfall from both frontal zones and air masses. In the appendix there are tables showing maxima of precipitation under various synoptic situations (ridge, cold front, anticyclone, depression, etc.) and a listing of average monthly rainfall observed at each station. There are 9 maps, 16 tables, and 6 Soviet references in the text and 5 tables in the appendix.

AVAILABLE: Library of Congress (QC851.M64V.52)

Card 8/8

MM/vm June 26, 1958

KORNETOV, N.I.; ATROSHENKO, F.M.; ISAYEVA, Ye,P.; MIRONOV, T.V., red.; LUKINA, L.Ye., tekhn.red.

र्द्धा द्वारा सम्बद्धा कृष्ण हरू । विद्या स्थापन स्थापन स्थापन स्थापन स्थापन स्थापन स्थापन स्थापन स्थापन स्थाप स्थापन स्थापन

> [The Tatar Soviet Republic] Sovetskaia Tatariia. Moskva. Izd-vo "Sovetskaia Rossia." 1958. 74 p. (MIRA 13:8)

1. Moscow. Vsesoyusnaya sel'skokhosyaystvennaya vystavka, 1958.
2. Rabotniki pavil'ona Tatarskoy ASSR na Vsesoyuznoy sel'sko-khosyaystvennoy vystavke (for Kornetov, Atroshenko, Isayeva).

(Tatar A.S.S.R.--Agriculture)

CIA-RDP86-00513R000618820012-3 "APPROVED FOR RELEASE: 04/03/2001

AP6014663 ACC NR

SOURCE CODE: UR/0031/65/000/002/0054/0058

AUTHOR:

Zhumatov, Kh. Zh.; Sayatov, M. Kh.; Isayeva, Ye. S.

ORG: none

TITLE: Investigations of the infectious activity of RNA of influence A virus in

susceptible animals

SOURCE: AN KazSSR. Vestnik, no. 2, 1965, 54-58

TOPIC TAGS: virology, virus disease, RNA, mouse, antigen

ABSTRACT: Intranasal injection of RNA of influenza A virus (Pr-8 strain) diluted 1:8 in 0.15 M NaCl in 0.007 M phosphate buffer causes influenza which kills white mice in the first passage. Undiluted RNA generally does not have this effect. When RNA solution is injected into white mice and chick embryos, virus is reproduced with the antigenic properties characteristic of the original virus. Mouse strains of influenza virus resynthesized from RNA had a lower hemagglutination and infection titer than did a strain obtained from RNA after inoculation of chick embryos. Orig. art. has: 3 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 007

Infective ribonucleic acids of viruses from animals and man.
Vest. AN Kazakh. SSR 20 no.6:39-46 Je *64 (MIRA 18:1)

1. Chlen-korrespondent AN KarSSR and AMN SSSR (for Zhumatow).

ZHUMATOV, Kh.Zh.; SAYATOV, M.Kh.; ISAYEVA, Ye.S.

Studying the infective activity of RNA of the type A influenza virus in susceptible animals. Vest. AN Kazakh.SSR 21 no.2:54-58 F '65.

(MIRA 18:3)

SAVKOVSKIY, P.F., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.; OLIFER, A.V., nauchn. sotr.; SHCHERBAKCV, V.V., nauchn. sotr.; POVZUN, I.D., nauchn. sotr.; MASLO, Ye.M., nauchn. sotr.; KRYLOVA, A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.; VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO. D.P., nauchn. sotr.; BOGDAN, L.I., nauchn. sotr.; GROTTE M.G., nauchn. sotr.; CHEFUR, N.D., red.; PROGRAMMENT.

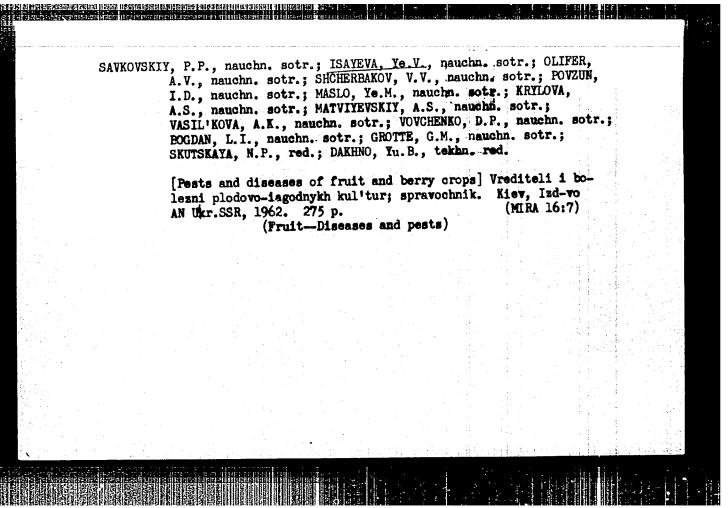
[Pests and diseases of fruit and berry plants; a manual] Vrediteli i bolezni plodovo-iagodnykh kul'tur; spravochnik. Kiev, Naukova dumka, 1965. 287 p. (MIRA 18:9)

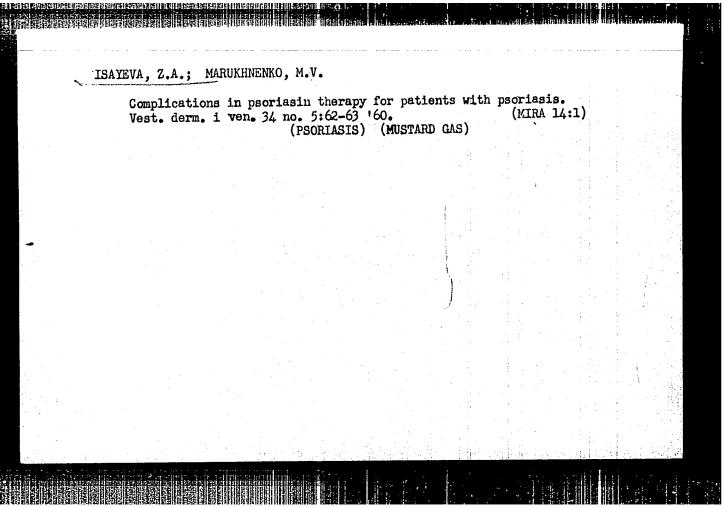
ISAYEVA, Ye.V., kand. biolog. nauk

Crown gall as a dangerous disease in nurseries. Zashch. rast. ot vred. i bol. 6 no.11:12 N '61. (MIRA 16:4)

(Ukraine—Crown-gall disease)
(Ukraine—Eursery stock—Diseases and pests)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618820012-3"

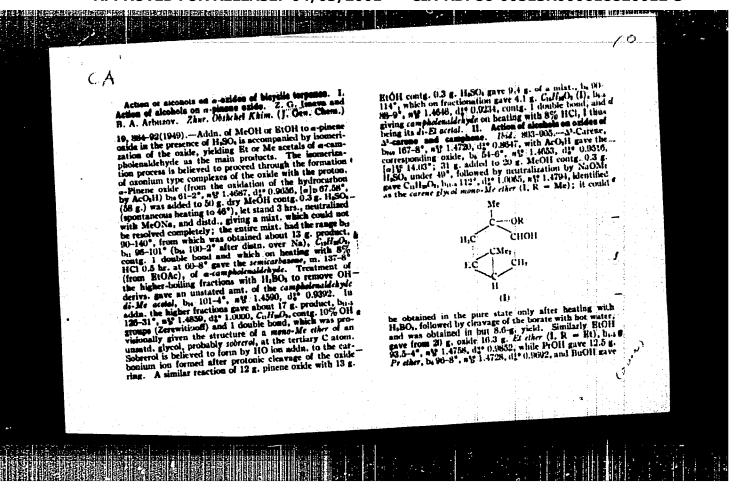


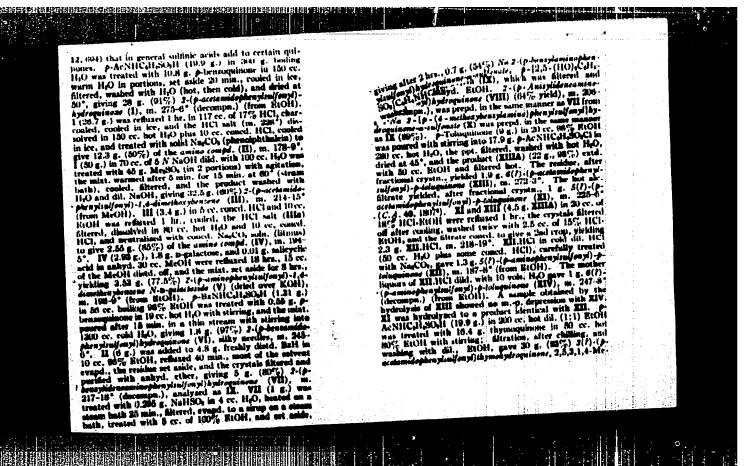


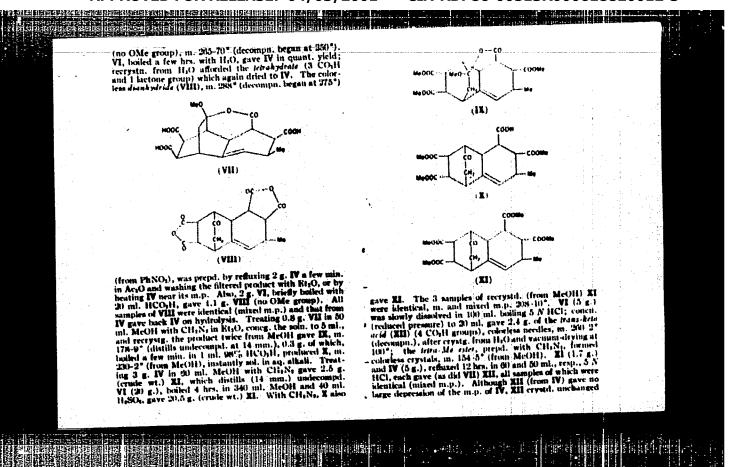
Fungal flora in patients with mycoses in Transbaikalia. Vest. derm.i ven. 34 no.8:44-45 60. (MIRA 13:11)

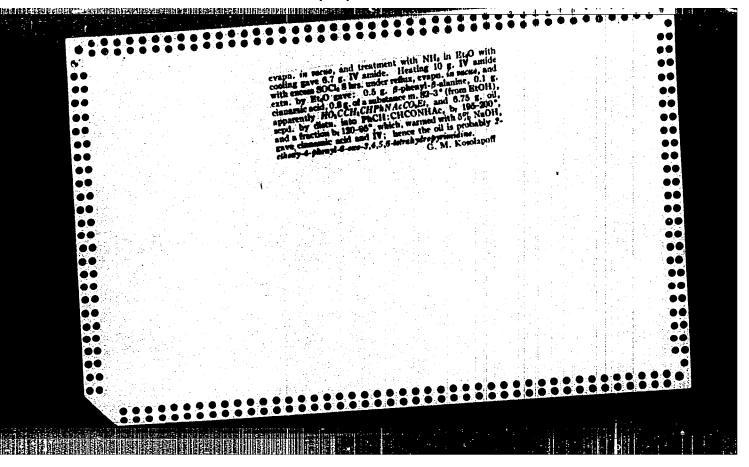
1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - dotsent L.A. Abramovich) Chitinskogo meditsinskogo instituta (dir. - dotsent Yu.D. Ryshkov).

(TRANSBAIKALIA-MEDICAL MYCOLOGY)

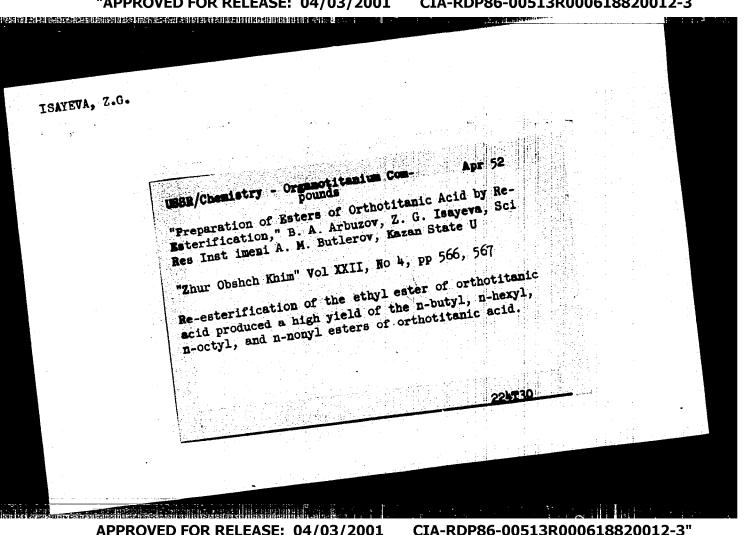




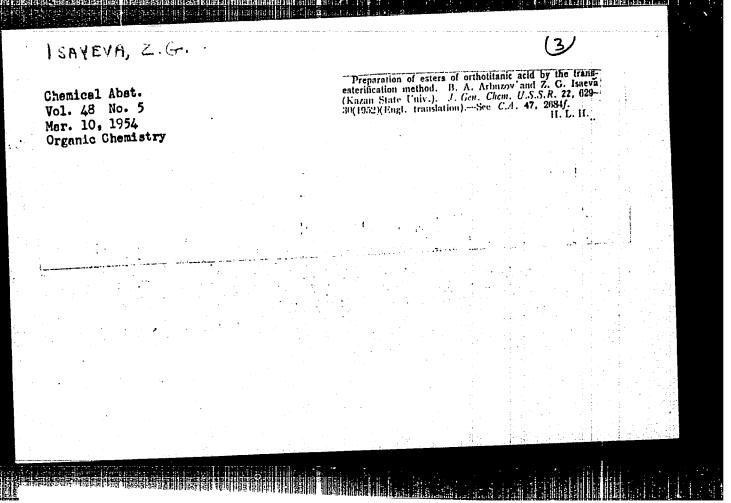




CIA-RDP86-00513R000618820012-3 "APPROVED FOR RELEASE: 04/03/2001



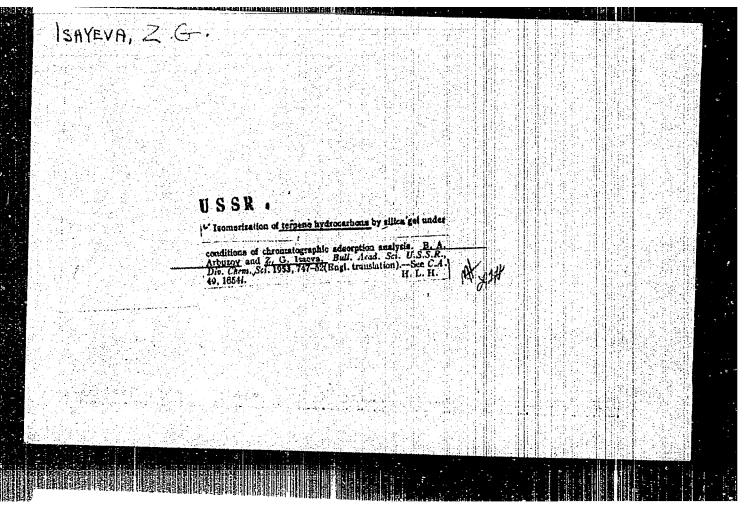
CIA-RDP86-00513R000618820012-3" APPROVED FOR RELEASE: 04/03/2001



ARBUZOV, B.A.; ISAYEVA, Z.G.

Some reactions of products of cyanochtylation of dihydric phenols by acrylonitrile. Zhur. Obshchey Khim. 22, 1645-7 '52. (MLRA 5:9) (CA 47 no.17:8681 '53)

1. V.I. Ul'yanov-Lenin State Univ., Kazan.



ISAYEVA, Z.G MSR/Chemistry Hydrocarbon isomerization Card Pub. 40 - 10/22 1/2 Authora Arbuzov, B. A., and Isaeva, Z. G. Title Isomerization of terpene hydrocarbons with silica gel in conditions of Periodical Izv. AN SSSR. Otd. khim. nauk 5, 843-849, Sep-Oct 1953 Abstract The effect of silica gel in conditions of adsorption analysis on the isomerization of terpene hydrocarbons was investigated. It was found that alphapinene isomerizes easily into camphene, dipentene and terpinolene; 23 - carene isomerizes into dipentene and terpinolene; dipentene isomerizes into terpinolene which in turn undergoes further conversions. The isomerization of above compounds with silica gel was found to be analogous to the isomerization of the very same hydrocarbons with

Izv. AN SSSR. Otd. khim. nauk 5, 781-787, Sep-Oct 1954. (Additional card)

Card 2/2 Pub. 40 - 3/22

Abstract : cation is in the lower-valent stages. Approximate intervals at which

the thermodynamic values experience certain changes are explained. Eleven references: 5-USSR; 4-German and 2-USA (1926-1953). Tatles;

graphs.

Institution : East Siberian Branch of Acad. of Sc. USSR, Mining-Metallurgical

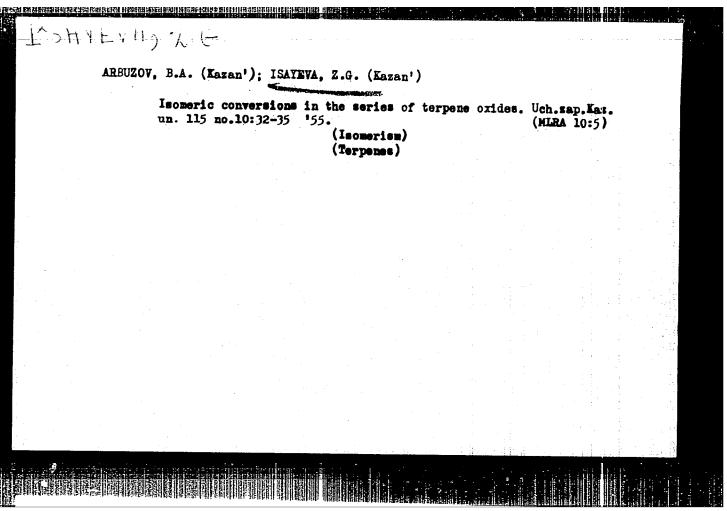
Institute, Irkutsk

Submitted: November 22, 1952

LSAVEVA, A. G USSR/ Chemistry Isomerization processes : 1/1 Card Pub. 151 - 32/35 Authors : Arbuzov, B. A., and Isaeva, Z. G. Title . About the isomerization of bicyclic terpene oxides during reaction with acetic anhydride Periodical : Zhur. ob. khim. 24, Ed. 7, 1250 - 1259, July 1954 Abstract : The reaction of acetic anhydride with oxides of alpha-pinene, \(\Delta^{3} \) -carene and camphene was investigated to determine the behavior (isomerization) of oxides of bicyclic terpene hydrocarbons in catalyst-free reactions. The variety of products formed during the reaction of bicyclic terrene oxides with acetic anhydride, which was found to be very complex. is described. Three USSR, 1 USA and 1 German reference.

Institution : State University, The A. M. Butlerov Scient.-Research Institute, Kazan

Submitted : February 22, 1954



SOV/20-121-1-28/55 AUTHORS: Arbuzov, B. A., Member, Academy of Sciences, USSR, Isayeva, Z. G.

On the Reduction of the Δ^3 -Carene Oxide (O vosstanovlenii TITLE: okisi Δ^3 -karena)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 1, pp. 105-106

ABSTRACT: It is known that the oxide mentioned in the title may be reduced to an alcohol ($C_{10}H_{18}O$). When the authors investigated the hydration of this oxide they found that two further products with the same formula are produced from it. The first alcohol is apparently identical with the 1-caranol of Kuczyuski and Chabudzinski (Kuchinskiy and Khabudzinskiy) (Ref 2). An alcohol which was obtained by the authors from reduction of the 1-caranone-3 (purified twice with p-nitrobenzoate and the acid phthalic ether) has constants which are very close to the alcohol produced by the authors (purified by 3,5-dinitrobenzoate). The two alcohols differ only by the melting point of the acid

Card 1/3 phthalic ether. In consequence of the oxidation of the

On the Reduction of the Δ^3 -Carene Oxide

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SOV/20-121-1-28/55

 Δ^3 -oxide-hydration product by chrome anhydride in acetic acid a ketone C10H160 was obtained which yields semicarbazide (melting point 201 - 2020) in a quantitative yield. This ketone is according to its constants and its melting temperature identical with the 1-caranone-3 (Ref 2) which is an isomerization product of the Δ^3 -carene-oxide by sodium in benzene. The same ketone was obtained by the authors (in a low yield) from the dehydration reaction of the B-carene-glycol by p-toluenesulfochloride in pyridine. In order to be able to give a final identification of the initially mentioned product, the authors produced it by the action of sodium upon the Δ^{j} -carene-oxide in benzene. From the alcohol reactions 3,5-dinitrobenzoate of the 1-caranol-3 (from alcohol) and an acid phthalic ether were obtained. Since these two compounds did not show a temperature depression of mixed samples with corresponding derivatives of the Δ^3 -carene-oxide hydration product one of the products of the catalytic hydration of the last mentioned oxide is bound to be 1-caranol-3. A further alcohol existed in the reaction products; it turned out ot be caranol-4, could, however, not be isolated. It might be one of the 4 possible stereoisomers of caranol-3.

Card 2/3

On the Reduction of the Δ^3 -Carene Oxide

SOV/20-121-1-28/55

The reduction of the Δ^3 -carenc-oxide with LiAlH₄ yielded caranol-4 (Ref 2). There are 8 references, 1 of which is Soviet.

SUBMITTED:

April 17, 1958

1. Terpenes--Chemical properties 2. Organic oxides--Reduction

3. Alcohols--Synthesis

Card 3/3

SOV/20-122-1-19/44

AUTHORS:

Arbuzov, B.A., Member, AS USSR, Isayeva, Z.G.

TITLE:

Reaction Products of α -Pinene Oxide and Δ Carene Oxide With Acetic Anhydride (O produktakh reaktsii okisey α -pinena

i \(\triangle ^2 \)-karena s uksusnym angidridom)

PERIODICAL:

Doklady Adademii nauk SSSR, 1958, Vol.122, Nr 1, pp. 73-76

(USSR)

ABSTRACT:

The authors continued their research on this subject as well as on the same reaction of the camphene oxide. It could be proved that the reaction of these bicyclic terpene oxides proceeds on a complicated way. Mixtures of products are formed, and an isomerization of the oxides takes place. The present paper is intended to clear the structure of the acetates which have been produced from the above oxides. As previously reported (Ref 3), the yield of the acetate C₁₂H₁₈O₂ with α-pinene oxide does not surpass 30%, whereas in the case of α carene oxide it remains below 22%. The authors have performed the first reaction in the presence of NaHCO₂, in order to conduct the formation of the acetates C₁₂H₁₈O₂ mainly in the direction of the suggested scheme. The latter salt binds the acetate ions and reduces the formation of acetate-diols to a minimum.

Card 1/4

Reaction Products of α -Pinene Oxide and \triangle $^{\circ}\text{C}_{a}$ rene Oxide With Acetic Anhydride

507/20-122-1-19/44

By this, it was proved that the α-pinene oxide could be recovered unchanged to 40 %; the isomerization of the oxide to a "campholene" aldehyde occurred to a much lower extent. Instead of the expected acetate, however, an alcohol C16 60 (yield 28 %) was isolated which is identical with the distranscarveol (Ref 4). By oxidation of this alcohol by means of chromium anhydride in acetic acid, carvone was obtained. According to the statements of reference 3 the boiling point of the acetate from a-pinene oxide is found in a broad temperature range. By repeated fractionation, apart from "campholene" aldehyde and sobrerol acetate 3 further substances with the same empirical formula C12H18O2 with a total yield of 31 % were isolated: 1) A product with lower boiling point (79 -80°/3mm) and with a double-bond in the molecule. By its maponification with 7 % NaOH solution in alcohol-water an alcohol with a ring consisting of 4 links was produced, which rather might be identical with a pinocarveol (II) or still more with the trans-pinocarveol (Ref 7). 2) A somewhat higher boiling (87-87,5 /3mm) product $C_{12}H_{18}O_{2}$ with two double-bonds. By saponification with 10 % NaOH solution in alcohol-water an alcohol similar to the trans-carveol resulted.

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Reaction Products of α -Pinene Oxide and

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△3 Carene Oxide With Acetic Anhydride

3) The boiling point of the third product C12H1802 was still higher (89-89,5°/3 mm). The investigation of the latter is continued. The reaction of the \triangle carene with acetic anhydride does not proceed smoothly. The products of reaction consist of: 1) The hydrocarbon fractions (3,5%) and 2) the products containing carbonyl (7%). They will further be investigated. There are 1: references, 4 of which are Soviet.

ASSOCIATION: Khimicheskiy institut im. A. M. Butlerova pri Kazanskom gosudarstvennom universitete im. V. I. Ul'yanova-Lenina (Chemistry Institute imeni A. M. Butlerov of the Kazan' State University imeni V. I. Ul'yanov-Lenin)

SUBMITTED:

May 7, 1958

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CIA-RDP86-00513R000618820012-3" APPROVED FOR RELEASE: 04/03/2001

5 (3) AUTHORS:

Isayeva, Z. C., Arbuzov, B. A.

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SOV/62-59-6-16/36

TITLE:

On the Reduction of the Oxides of α -Pinene and of the Oxides of Δ^3 -Carene (O vosstanovlenii okisi α -pinena i okisi Δ^3 -

karena)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 6, pp 1049 - 1057 (USSR)

ABSTRACT:

The reduction of the oxides mentioned in the title by lithium and aluminum hydride was not possible, what is proved by publications (Refs 1-17). In the present investigation the oxides could be reduced by hydrogen in the presence of Renay-nickel under sharp conditions. α -pinene was reduced at 135-175 and a pressure of from 60-100 atmospheres, Δ^3 -carene at 175-200 and a pressure of from 50-80 atmospheres. The reduction of α -pinene leads to the formation of 2 alcohols of the composition $C_{10}H_{16}$ 0. The hydration reaction was accompanied by an isomerization of the α -pinene under formation of a ketone of the same

zation of the α -pinene under formation of a ketone of the same composition, which is similar to the thermal isomerization and the oxidation products of the alcohol $C_{10}H_{18}O$. The ketone ob-

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tained by the thermal isomerization of a-pinene oxide may be

On the Reduction of the Oxides of α -Pinene and of the SOV62-59-6-16/36 Oxides of Δ^3 -Carene

reduced by lithiumaluminum hydride to $C_{10}H_{18}O$ in 2 isomer alcohols which, however, are not identical with the alcohols obtained by reduction of α -pinene oxide on Renay-nickel. Reduction of α -pinene oxide:

Pinokampheol (II) and pinanol (I) are produced. The reduction of pinokamphon produced from hyssop oil on lithiumaluminum hydride also leads to an alcohol of the composition $C_{10}^{\rm H}_{18}^{\rm O_9}$ which differs from the aforementioned one. The Δ^3 -carene oxide is reduced on Renay-nickel to an alcohol of the composition $C_{10}^{\rm H}_{18}^{\rm O_9}$, which isomerizes into a ketone $C_{10}^{\rm H}_{16}^{\rm O}$ when being heated. The different reductions are described in detail in the experimental part. A table gives the results of the thermal isomerization

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APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618820012-3"

SOT/62-59-6-16/36 On the Reduction of the Oxides of α -Pinene and of the Oxides of Δ^3 -Carene

of α -pinene. There are 1 table and 12 references, 1 of which is Soviet.

ASSOCIATION: Nauchno-issledovatel skiy institut im. A. M. Butlerova Kazanskogo gosudarstvennogo universiteta im. V. I. Ul'yanova-Lenina (Scientific Research Institute imeni A. M. Butlerov of the

Kazan' State University imeni V. I. Ul'yanov-Lenin)

August 15, 1957 SUBMITTED:

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CIA-RDP86-00513R000618820012-3" APPROVED FOR RELEASE: 04/03/2001

ARBUZOV, B.A., akademik; ISAIWA, Z.G.; RATNER, V.V.

Products of the autoxidation of A³-carene. Dokl. An SSSR 134 no.3; (MIRA 13:9)
583-586 S'60.

1. Mauchno-issledovatel'ckiy khimicheskiy institut im. A.M. Butlerova pri Kasanskom gosudarstvennom universitete im. V.I. Ul'yanova-Lenima.

(Garene)

ARBUZOV, B.A., akademik; ISAYEVA, Z.G.; SAMITOV, Yu.Yu.

Proton magentic resonance study of bicyclic terpenes and their crides. Bokl. AN SSSR 137 no.3;589-592 Nr. [6]. (NIRA 14:2) oxides. Bokl. AN SSSR 137 no.3;589-592 Nr. [6].

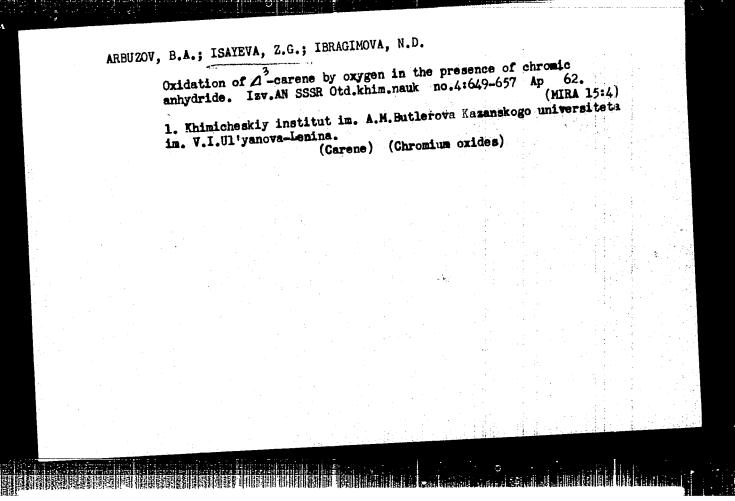
1. Nauchno-issledovatel skiy khimicheskiy institut in A.M.Butlerova pri Kasanskom gosudarstvennom universitete im. V.I.U.'yanova-lienira. (Ruclear magnetic resonance and relaxation)

(Terpenes) (Nuclear magnetic resonance and relaxation)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618820012-3"

Action of lead tetracetate on \$\alpha^2\$-carene. Izv.AN SSSR Otd.khim.nauk no.4:644-649 Ap '62.

1. Khimicheskiy institut im. A.M.Butlerova Kazanskogo universiteta
im. V.I.Ul'yanova-Lenina.
(Lead acetates) (Carene)



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Nuclear magnetic resonance spectra of protons and conformation of A-carene oxide. Dokl. AN SSR 150 no.5:1036-1038 Je '63.

(NIRA 16:8)

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Betlerova pri Kamanskom gosudarstvennom universitete im. V.I.
Ul'yanova-Lenina.

(Garene—Spectra) (Protons)

ISAYEVA, Z.G.; ANDREYEVA, I.S.

Isomerization of 43 -carene oxide in the reaction with alcohols in the presence of acids. Dokl. AN SSSR 152 no.1:106-109 S '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy khimicheskiy institut im. A.M.Butlerova Kazanskogo gosudarstvennogo universiteta im. Ul'yanova-Lemina. Predstavleno akademikom B.A.Arbuzovym. (Carene) (Alcohols) (Isomerization)

ISAYEVA, Z.G.; ANDREYEVA, I.S.

Interaction of 4^3 -carene oxide with methyl alcohol in the presence of sodium methylate. Dokl. AN SSSR 152 no.2:342-345.S. 163. (MIRA 16:11)

1. Nauchno-issledovatel skiy khimicheskiy institut im.A.M. Butlercya pri Kazanskom gosudarstvennom universitete im. V.I. Ul'yanova-Lenina. Predstavleno akademikom B.A. Arbuzovym.

ARBUZOV, B.A., akademik; ISAYEVA, Z.G.; POVODYREVA, I.P.

Structure of unsaturated alcohol acetates from the reaction of $\Delta 3$ — carene oxide with acetic anhydride. Dokl. AN SSSR 159 no.48827-830 D 164 (MIRA 18:1)

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Oxidation of \$\Delta^3\$ -carene by mercury acetate. Izv. AN SSSR. Ser. khim. (MIRA 18:5)

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ISAYEVA, Z.G.; ARBUZOV, B.A.; RATNER, V.V.

Oxidation of \(\textit{ as } \) -carene by selenious acid. Izv. AN SSSR. Ser. khim.

no.3:475-485 | 165.

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Structure of (-) alcohol from the reaction of \(\triangle 3 \) - carene oxidation in the presence of chromic anhydride. Izv. AN SSSR, Ser. khim. no.4:678-684 '65.

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Isomerization of A-pinene and △3-carene oxides with lithium diethylamine. Izv. AN SSSR. Ser. khim. no.5:838-843 '65. (MIRA 18:5)

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