Kinetics and mechanism of the oxidation of naphthalene on a oxyvanadium catalyst. 1: Investigation of the effect of the gas phase composition on the chemical composition of the catalyst and on the catalytic activity. (Cont.)

is shown that a partial reduction of V_2O_5 to lower oxides occurs during the catalysis of naphthalene-air mixtures. The low oxides are formed on the catalyst particles, in the centre of the catalyst particles the pentoxide is found. Catalysts prepared from lower oxides acidify after a certain time. Partial reduction of V_2O_5 sharply increases the electroconductivity of the catalyst and its catalytic activity. This makes it possible to investigate the kinetics of the process without having to consider the changes in the composition which are caused by changes in the concentration of naphthalene in the gaseous phase. Catalysts containing excessive quantities of lower oxides are very active but not selective. This seems to be caused by the high catalytic activity of the lower oxides in comparison with the pentoxide (complete oxidation of phthalic anhydride). Catalytic oxidation of phthalic anhydride can also be carried out with copper, aluminium and glass, the activity decreasing from copper to glass. The catalytic

Kinetics and mechanism of the oxidation of naphthalene on a oxyvanadium catalyst. 1. Investigation of the effect of the gas phase composition on the chemical composition of the catalyst and on the catalytic activity. (Cont.)

oxidation of phthalic anhydride is strongly inhibited by naphthalene vapours. The catalyst changes gradually in such a manner that the most suitable conditions for a selective process are established. The reduced particles come into contact with the highly concentrated naphthalene containing solution. The particles consist of slightly active higher vanadium oxides.

There are 2 drawings, 5 graphs and 3 tables. There are 3 references, 1 of which is Slavic.

ASSOCIATION: Institute of Physical Chemistry imeni L.V.Pisarzhevsk, Academy of Sciences, Ukraine. (Institut Fizicheskoy Khimii im. L.V.Pisarzhevskogo AN USSR).

SUBMITTED: November 12, 1956.

AVAILABLE: Library of Congress

Ushakova, V. P.

73-3-5/24

AUTHOR: Ushakova, V. P., Korneychuk, G. P., and Royter, V. A.

TITLE: Kinetics and Mechanism of the Oxidation of Naphthalene with a Vanadium Catalyst.2. (Kinetika i Mekhanizm Okisleniya Naftalina na Okisnovanadiyevom Katalizatore. 2)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol.23, No.3, pp. 310-321 (USSR).

ABSTRACT: Data on the kinetics of the oxidation of naphthalene with a vanadium oxide catalyst are given. The detrimental influence of the macrofactor was eliminated. The investigations on the kinetics of the process disregarding some of the chemical changes in the composition of the catalyst, were published in the first part of this article. (Ref. 1.) Experiments were carried out on a macrocrystalline, non-porous vanadium oxide catalyst (2 grains 5 x 7mm weighing 0.495 g) between 380 - 410°C, by the continuous circulation method, as indicated in Figure 1. The macro-crystalline catalyst was prepared by slow cooling of the vanadium pentoxide solution. The internal diffusion was minimised by using this catalyst. The rate of oxidation of naphthalene was measured at 383, 392, 400 and 410°C. Preliminary experiments showed that the catalyst shows sufficiently reproducible activity in these temperature limits; outside these temperature limits the catalytic activity

Card 1/5

Kinetics and Mechanism of the Oxidation of Naphthalene with a Vanadium Catalyst. 2.

and selectivity of the material changes. Quantitative analysis of the oxidation products gave the following results: phthalic anhydride, maleic anhydride, 1,4-naphthoquinone, CO_2, CO and O_2. The unreacted naphthaline was determined by the difference between the initial concentration and the concentration of the reaction products. The analysis of the gaseous products was carried out in the apparatus BTN, the 1,4-naphthoquinone was analysed with a φK-53 photocolorimeter. Investigations were carried out at 0.505×10^{-3} mole/litre (1:20, I series) and 0.342×10^{-3} mole/litre (1:30, II.series). Figures 2-5 give data on the relation of the output and the concentration of phthalic anhydride ($W_{P,a}$), maleic anhydride ($W_{m.a.}$), 1,4-naphthoquinone ($W_{n.qu.}$) and of products of deep oxidation (W_{CO_2}). The concentration of naphthalene was denoted by C_n. The kinetics of oxidation can be expressed by the equation: $W_{Ph.a} = k_{Ph.}C_N$. The velocity constants of these partial reactions, calculated on the basis of the given equations in Table 1. are shown to be reasonably constant in the given temperature limits.

Card 2/5

Kinetics and Mechanism of the Oxidation of Naphthalene with a Vanadium Catalyst. 2.

The rate of formation of phthalic anhydride does not depend on the concentration of the reaction products and at a constant concentration of oxygen only the naphthalene concentration has to be defined. The activation temperatures were calculated from the inclination of diagram lines lg k_i and $\frac{1}{T}$ (figures 6 - 9). The following results were obtained (in cal./mole):
$E_{Ph.a.} = 37.4$; $E_{M.a.} = 31.6$; $E_{N.qu.} = 32.7$ and $E_{CO_2} = 37.2$
A second series of experiments with smaller initial concentration of naphthalene than in the first series was carried out to clarify the total influence of the reaction products on the rate of oxidation of naphthalene (0.342×10^{-3} mole/litre). These investigations were carried out at 410, 392 and 383°C with the same catalyst as in the first series. Practically identical results were obtained. The mean values of the velocity constants were calculated according to the equations 1 - 4 given in Table 2. Figure 10 shows that the relation of output of phthalic anhydride and the concentration naphthalene of the 2 experimental series tally during each given

Kinetics and Mechanism of the Oxidation of Naphthalene with a Vanadium Catalyst. 2.

temperature. The zero-order of the reaction of formation of phthalic anhydride can be illustrated according to the values given in Table 3. The rate of formation of maleic anhydride, of 1,4-naphthoquinone and total oxidation also increases during increasing concentration of naphthalene. When maintaining the initial concentration of naphthalene by constant relation of the reaction rates and the concentration of naphthalene in the cycle $W_{M.a.} = K_{m.}C_N^{0.5}$; $W_{N.qu.} = k_{N.qu.}.C_N^2$; $W_{CO_2} = k_{CO_2}.C_N$. When maintaining a constant concentration of naphthalene an increase in the rate of formation of maleic anhydride occurs when the concentration of the products is increased. The rate of formation of products of deep oxidation, however, isinhibited by the products of incomplete oxidation (figures 11 and 12). The assumption of the formation of an obstruction of the lower vanadium oxides by products of incomplete oxidation was proved. This explains the stability of the lower oxides during catalysis conditions. The obstructive effect is ascribed to the effect of the

Kinetics and Mechanism of the Oxidation of Naphthalene with a Vanadium Catalyst. 2.

initial oxy-compounds or 1,4-naphtoquinone. There are 13 figures, 3 tables and 13 references, 9 of which are Slavic.

SUBMITTED: November, 12, 1956.

ASSOCIATION: Institute of Physical Chemistry imeni L.V. Pisarzhevskiy, Academy of Sciences, Ukrainian SSR. (Institut Fizicheskoy Khimii im. L.V. Pisarzhevskogo AN USSR)

AVAILABLE: Library of Congress.

ROYTER, V.A.; USHAKOVA, V.P.; KORNEYCHUK, G.P.; SKORBILINA, T.G.

Kinetics and mechanism of the catalytic oxidation of naphthalene to 1,4-naphthoquinone. Kin. i kat. 2 no.1:94-102 Ja-F '61. (MIRA 14:3)

1. Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo AN USSR.
(Naphthalene) (Naphthoquinone) (Chemical reaction, Rate of)

KORNEYCHUK, G.P.; USHAKOVA, V.P.; SKORBILINA, T.G.

Method for studying the reaction kinetics on catalysts in unsteady state. Kin.i kat. 2 no.6:931-935 N-D '61. (MIRA 14:12)

1. Institut fizicheskoy khimii AN USSR, Kiyev.
(Catalysis)

ROYTER, Vladimir Andreyevich; KORNEYCHUK, Grigoriy Petrovich; USHAKOVA, Viktorina Petrovna; STUKANOVSKAYA, Nina Aleksandrovna; POKROVSKAYA, Z.S., red.; MATVEYCHUK, A.A., tekhn. red.

[Catalytic oxidation of naphthalene] Kataliticheskoe okislenie naftalina. Kiev, Izd-vo Akad. nauk RSSR, 1963. 106 p. (MIRA 16:5)

(Naphthalene) (Oxidation) (Vanadium catalysts)

USHAKOVA, V.S.

1

USSR/Human and Animal Physiology (Normal and Pathological). Blood Circulation. General.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79512.

Author : Ushakoba, V.S.
Inst :
Title : On the Problem of Cardio-Vascular Changes During Diphteria.

Orig Pub: Pediatriya, 1957, No 8, 24-29.

Abstract: Fifty-nine children were investigated. During a localized form of diphtheria, there is noted in the beginning of the illness a weakening and irregularity of the I tone in the apex, decrease in the pulse rate, moderate increase of arterial pressure, positive solar reflex and low oculocardiac

Card : 1/3

USSR/Human and Animal Physiology (Normal and Pathological).
Blood Circulation. General.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79512.

appearances of an "infected heart" are benign and reversible; they are connected with a reaction of the autonomic-endocrine apparatus and dystrophy of the myocardium.

Card : 3/3

USHAKOVA, V. S., Cand Med Sci -- (diss) "Characteristics of cardiovascular disorders in diphtheria." Moscow, 1960. 16 pp; (Academy of Medical Sciences USSR, Order of Labor Red Banner Inst of Pediatrics); 300 copies; price not given; (KL, 21-60, 151)

ISHMIRSKAYA, Ye.V.; USHAKOVA, V.V.

Breezes of the lower Volga. Izv. Vses. Geog. ob-va 89 no.2:154-157 Mr-Ap '57. (MLRA 10:6)

(Volga Valley--Winds)

USHAKOVA, V.Ya., red.; AVRUTSKAYA, R.F., red. izd-va; VAYNSHTEYN, Ye.B., tekhn. red.

[Program of a course in "Electric measurements" for technical schools of ferrous metallurgy in the subject "Electric equipment for industrial enterprises and establishments"] Programma kursa "Elektricheskie izmereniia" dlia tekhnikumov chernoi metallurgii po spetsial'nosti "Elektrooborudovanie promyshlennykh predpriiatii i ustanovok." Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 14 p. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii. Upravleniye uchebnykh zavedenii. Nauchno-metodicheskiy kabinet. (Electric measurements)

USHAKOVA, V.Ya., red.

[Program of a course in the "Technology of metals" for technical schools of ferrous metallurgy in the subject: "Electric equipment for industrial enterprises and establishments"] Programma kursa "Tekhnologiia metallov" dlia tekhnikumov chernoi metallurgii po spetsial'nosti [Elektrooborudovanie promyshlennykh predpriiatii i ustanovok." Moskva, 1957. 15 p. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Ministerstvo chernoy metallurgii. Upravleniye uchebnykh zavedeniy. Nauchno-metodicheskiy kabinet. (Metallurgy)

USHAKOVA, Ye.G.

Conditions for the existence of an integral invariant of a transitive group. Uch.zap. KHGU 115:149-152 '61. (MIRA 17:5)

USHAKOVA, YE.

Ushakova, Ye."How the Soviet scientists of the Michurin group create new forms of vegetable crops," Kul't.prosvet. rabota, 1949, No. 3, p. 10-15

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

USPENSKIY, Ye.

Vegetable Gardening

Sowing vegetables in the late fall.

Kolkh. proizv. 12 No. 9, 1952

9. Monthly List of Russian Accessions, Library of Congress, December 1952 1953, Uncl.

1. USHAKOVA, Ye. I., Acad.
2. USSR (600)
4. Vegetable Gardening
7. Tasks of scientific workers in vegetable gardening. Sad i og., No. 1, 1953.

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

USHAKOVA, E. I.

USSR/ Agriculture - Vegetable raising

Card 1/1 : Pub. 77 - 8/21

Authors : Ushakova, E. I., Act. Mem. of the All-Union Acad. of Agri. Sci.

Title : Two hundred kinds of vegetables

Periodical : Nauka i zhizn' 21/9, 21-22, Sep 1954

Abstract : A description is given of the vegetable exhibit at the Moscow Agricultural Exposition with some account of experiments in raising vegetables and adapting them to different climates. Illustrations.

Institution : .....

Submitted : .....

USHAKOVA, YE. I.

USSR/Agriculture - Truck farming

Card 1/1 Pub. 86 - 8/37

Authors : Ushakova, E. I., Act. Mem. Lenin Agri. Acad.

Title : The Gribov vegetable-selection experimental station

Periodical : Priroda 43/10, 57-60, Oct 1954

Abstract : A account is given of the work done at the Gribov experimental station, in collaboration with a number of collective farms, in the production of some 200 new varieties of better vegetables and the raising of seeds. The principle vegetables involved are mentioned by name and the names assigned to the new varieties are given. Illustrations.

Institution : ...

Submitted : ...

MARINICH, P.Ye., redaktor; USHAKOVA, Ye.I., akademik, redaktor; BAGRAMOV, G.G., redaktor; YEVDOKIMOV, M.M., redaktor; MARTYNOV, V.M., redaktor; BUDYUK, V.P., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor

[Methods of state testing of varieties of farm crops; vegetables, melons and squash, potatoes, and fodder root crops] Metodika gosudarstvennogo sortoispytaniia sel'skokhoziaistvennykh kul'tur; ovoshchnye, bakhchevye kul'tury, kartofel' i kormovye korneplody. Pod red. P.E.Marinicha i dr. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 260 p. (MLRA 9:9)

(Plants, Cultivated)

USSR/Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20339.

Author : Ye. I. Ushakova.
Inst : Not given.
Title : Immediate Tasks in the Selection and Seed Raising of Vegetable Crops. (Ocherednyye zadachi selektsii i semenovodstva ovoshchnykh kul'tur).

Orig Pub: Sad i ogorod, 1957, No 6, 6-9.

Abstract: No abstract.

Card : 1/1

COUNTRY : USSR
CATEGORY : Cultivated Plants - Potatoes, Vegetables, Cucurbits. M

ABS. JOUR. : Referat. Zhur., No.14, 1958, No.63429

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : deer meat for 2-3 months. In regard to the quality of the flavor, the green tops of the multiplier onion are not inferior to the ordinary onion. -- Ye. A. Okorokova

Card: 2/2

USHAKOVA, Ye.I., akademik

Late fall sowing of vegetable crops. Politekh.obuch. no.10: 41-43 O '59. (MIRA 13:2)

1. Gribovskaya ovoshchnaya selektsionno-opytnaya stantsiya.
(Vegetable gardening)

[illegible], V.I., akademik

Methods for breeding vegetable crops. Agrobiologiia no.6:803-812 N-D '65. (MIRA 18:12)

1. Gribovskaya ovoshchnaya selektsionnaya opytnaya stantsiya, Moskovskaya oblast', Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina.

NATANSON, G.L. [deceased]; USHAKOVA, Ye.N.

Reviewing some works on the theory of aerosol filtration. Zhur. fiz. khim. 35 no.2:463-466 F '61. (MIRA 16:7)

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.
(Aerosols)

USHAKOVA, Ye.N.

Cummingtonites from the Zavalya village in the Bug Valley.
Min.shor. no.12:317-322 '58. (MIRA 13:2)

1. Gosuniversitet imeni Ivana Franko, L'vov.
(Zavalya region (Bug Valley)--Commingtonite)

USHAKOVA, Ye.N.

Ferruginous hypersthene in Zaval'ye in the middle Bug Valley.
Zap. Vses. min. ob-va 87 no.3:367-369 '58. (MIRA 11:10)

1.L'vovskiy gosudarstvennyy universitet.
(Zaval'ye--Hypersthene)

USHAKOVA, YE. N., CAND GEOL-MIN SCI, "THE MINERALOGY AND PETROGRAPHY OF THE METAMORPHIC ROCKS OF THE KHOSHCHEVATO-ZAVAL'YEV FORMATION OF Bug Region." NOVOSIBIRSK, 1960. (INST GEOL AND GEOPHYS. SIBERIAN DEPT ACAD SCI USSR). (KL, 2-61, 202).

USHAKOVA, Ye.N.

Ferruginous sepiolites from Zaval'ye in the middle Bug Valley. Min.sbor. no.14:327-331 '60. (MIRA 15:2)

1. Gosudarstvennyy universitet imeni Ivana Franko, L'vov.
(Bug Valley—Meerschaum)

KHLESTOV, V.V.; USHAKOVA, Ye.N.

Petrography and genesis of the Kyakhta sillimanite deposit in the Buryat A.S.S.R. Trudy Inst.geol.i geofiz.Sib.otd.AN SSSR no.15:197-241 '63. (MIRA 17:4)

DOBRETSOV, N.L.; REVERDATTO, V.V.; SOBOLEV, V.S.; SOBOLEV, N.V.; USHAKOVA, Ye.N.; KHLESTOV, V.V.

Basic characteristics of the distribution of the facies of regional metamorphism in the U.S.S.R. Geol. i geofiz. no.4: 3-18 '65. (MIRA 18:8)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

VOLFSON, I.V., inzh.; USHAKOVA, Ye.S., inzh.

Simplified telecommunication circuit in the operation of substations.
Elek.sta. 28 no.12:80-81 D '57. (MIRA 12:3)
(Telecommunication) (Electric substations)

ISIRIKYAN, A.A.; KISELEV, A.V.; USHAKOVA, Ye.V.

Adsorption of water, methanol, hexane, and benzene vapors on pigment rutile modified by diethyldichlorosilane. Koll. zhur. 27 no.5:690-696 S-O '65. (MIRA 18:10)

1. Moskovskiy universitet imeni Lomonosova, khimicheskiy fakul'tet.

ISIRIKYAN, A.A.; KISELEV, A.V.; USHAKOVA, Ye.V.

Chemical modification of the rutile pigment surface by hexanol and dimethyldichlorosilane. Koll.zhur. 26 no.1:45-50 Ja-F '64. (MIRA 17:4)

1. Moskovskiy universitet, khimicheskiy fakul'tet.

BORODINA, M.L.; YERMOLAYEVA, T.A.; ISIRIKYAN, A.A.; KISELEV, A.V.; USHAKOVA, Ye.V.

Adsorption properties of commercial samples of a rutile pigment with a modified surface. Koll.zhur. 26 no.2:156-162 Mr-Ap '64. (MIRA 17:4)

1. Moskovskiy universitet imeni Lomonosova, khimicheskiy fakul'tet.

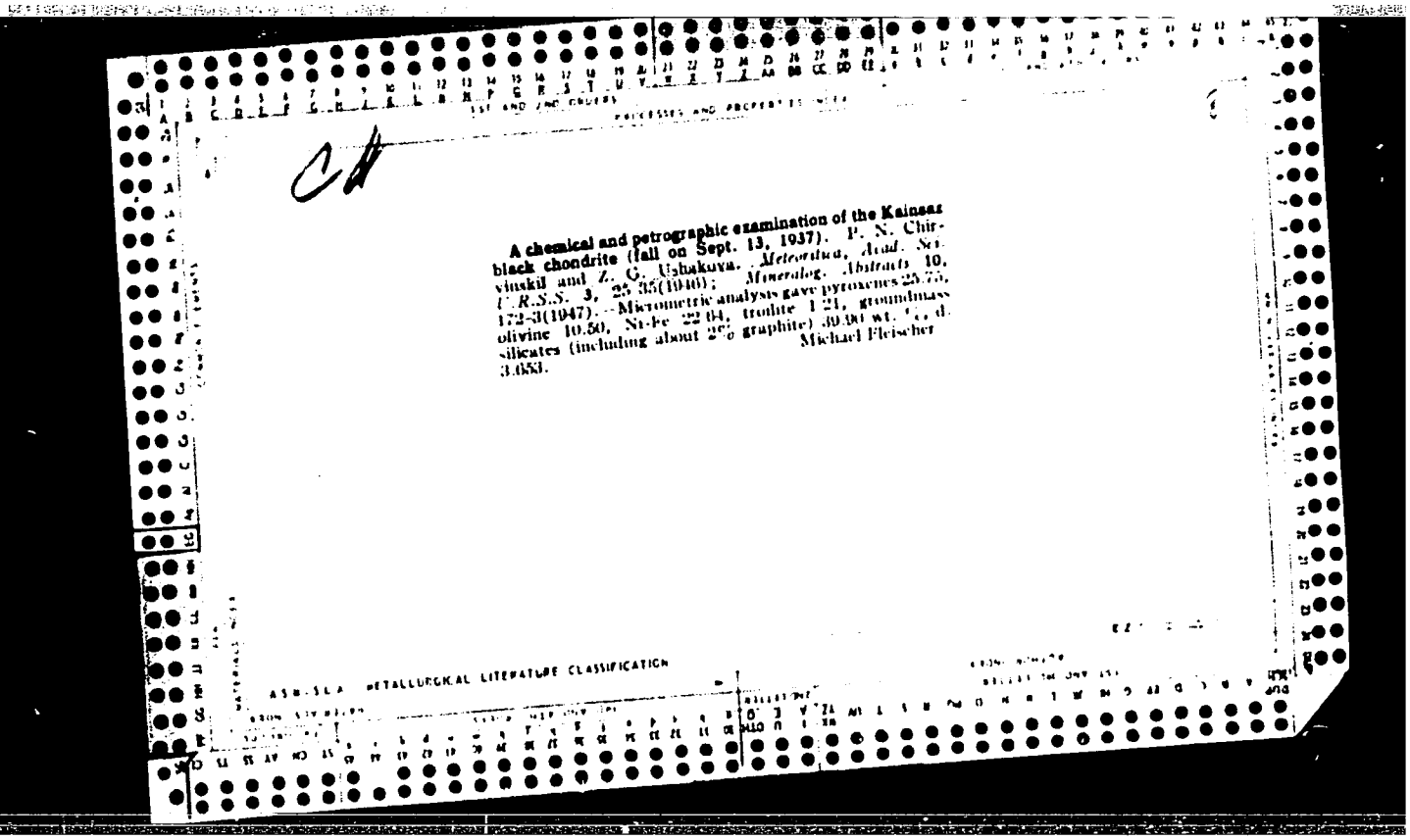
USHAKOVA, Z.A. (Blagoveshchensk)

Cerebrospinal fluid pressure in late sequelae of closed injuries of the brain. Vop.neirokhir. 24 no.6:48-49 N-D '60. (MIRA 14:1)

1. Kafedra nervnykh bolezney Blagoveshchenskogo meditsinskogo instituta.
(BRAIN--WOUNDS AND INJURIES) (CEREBROSPINAL FLUID)

Clarkes of the magmatic rock complex in the Ural geosyncline and their genetic significance P. N. Chirvinskii and Z. G. Ushakova. *Bull. soc. naturalistes Moscou, Sect. geol.* 16, No. 1, 3-22 (in English 22-3) (1938). Comparisons with 397 rocks of Great Britain show that the magmatic rocks of the Ural geosyncline are not different in compn. The rocks of the eastern European Shield are somewhat more acid and correspond to the formula $2MSiO_3 + SiO_2 = 2MO \cdot 3SiO_2$, where M is equal to 27.36 (M stands for the collective metals). Theories on the formation of the magma are suggested. J. S. Joffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



A chemical and petrographic examination of the Kainsaz black chondrite (fall on Sept. 13, 1937). P. N. Chirvinskii and Z. G. Ushakova. *Meteoritika, Acad. Sci. U.R.S.S.* 3, 25-35(1940); *Mineralog. Abstracts* 10, 172-3(1947).—Micrometric analysis gave pyroxenes 25.75, olivine 10.50, Ni-Fe 22.04, troilite 1.21, groundmass silicates (including about 2% graphite) 30.90 wt. %, d. 3.053.

Michael Fleischer

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

USHAKOVA, Z. G.

2

USSR

Granitoid rocks of the charnockite series of the central part of the Aldana Shield. Z. G. Ushakova. *Trudy Lab. Geol. Dokembriya, Akad. Nauk S.S.S.R.* 1955, No. 2, 213–27.—A report describing some unique hypersthene-contg. rocks found in the Aldana Shield area. The rock forms in small solid masses in areas not greater than about 15 sq. km. Contacts with the surrounding rock, i.e., with gneiss and different cryst. schists, is either gradual or sharp. One of the characteristics of the rock appears to be its inconstant quant.-mineralogical compn. Within the same mass of rock will be found a continuous series of transitions from the acid varieties, hypersthene granites and granodiorites, to hypersthene diorites and to basic, represented chiefly by gabbronorites. Petrographic and mineralogical characteristics, as well as results of chem. analysis of the rock, are provided.

Gladys S. Macy

USHAKOVA, Z.G.(Yuzhnaya Yakutiya); Dzevanovskiy, Yu.K. (Yuzhnaya Yakutiya)

Principal geological and tectonic features of the Gonam River Basin. in southern Yakutia. Mat. VSEGEI no.1:13-31 '56. (MLRA 10:1)
(Gonam Valley--Geology, Stratigraphic)

DRUGOVA, G.M.; KLIMOV, L.V.; KRYLOVA, M.D.; MIKHAYLOV, D.A.; SUDOVIKOV, N.G.; USHAKOVA, Z.G.

Pre-Cambrian geology of the Aldan mining region. Trudy Lab. geol. dokem. no.8:5-331 '59. (MIRA 12:10)
(Aldan Plateau--Geology)

USHAKOVA, Z.G.

Lower Paleozoic trap formation in the western part of the Russian Platform. Trudy VSEGEI no.80:3-108 '62. (MIRA 16:9)

ANUFRIYEV, Yu.N.; USHAKOVSKIY, V.T.

Genesis of quartz placers in the Urals. Trudy IGEM no.40:46-61 '60.
(MIRA 13:11)

(Ural Mountains--Quartz)

USHAMIRSKIY, M., inzh.; VAGNER, V., inzh.

Experimental large-panel house built of keramzit-concrete details. Zhil.stroi. no.8:10-12 '60. (MIRA 13:8)
(Novokuybyshevsk--Apartment houses)

USHAMIRSKIY, M.

The complex will be finished ahead of time. Na stroi.Ros. no.4: 5-6 Ap '61. (MIRA 14:6)

1. Glavnyy inzhener Novokuybyshevskogo stroitel'no-montazhnogo tresta No.25.
(Novokuybyshevsk--Chemical plants)

SPIVAK, Natan Yakovlevich, kand. tekhn. nauk; USHAMIRSKIY, Mark Konstantinovich; LINETSKIY, Yakov Isaakovich; KHROMOVA, Zinaida Pavlovna, st. inzh.; FINKINSHTEYN, B.A., inzh., red.;

[Large-panel apartment houses of keramzit concrete; practices of trust No.25 of the Kuybyshev Economic Council] Krupnopanel'nye zhilye doma iz keramzitobetona; opyt tresta no.25 Kuibyshevskogo sovnarkhoza. Moskva, Gosstroiizdat, 1962. 47 p. (MIRA 18:5)

1. Rukovoditel' laboratorii Tsentr. nauchno-issledovatel'skogo instituta industrial'nykh zhilykh i massovykh kul'turno-bytovykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Spivak). 2. Glavnyy inzhener tresta No.25 Kuybyshevskogo sovnarkhoza (for Ushamirskiy). 3. Rukovoditel' laboratorii Nauchno-issledovatel'skogo instituta stroitel'noy fiziki i ograzhdayushchikh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Linetskiy).

USHAMIRSKIY, M.K. (g.Kuybyshev)

Mixed crews in petroleum industry construction. Stroi.pred.neft.prom. 1 no.6:7-9 Ag '56. (MLRA 9:9)
(Petroleum industry) (Building)

VARZHITSKIY, A.G., inzh.; USHAHIRSKIY, M.K., inzh.; PALEVSKIY, S.A., inzh., nauchnyy red.; SHIROKOVA, G.M., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.; TEMKINA, Ye.L., tekhn.red.

[Building large-block apartment houses in Novokuybyshevsk] Opyt stroitel'stva zhilykh zdanii iz krupnykh blokov v Novokuibyshevske. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 40 p. (MIRA 13:1)
(Novokuybyshevsk--Apartment houses) (Building blocks)

USSR/ Electronics - Radio receivers and transmitters

Card 1/1 Pub. 89 - 10/29

Authors : Azat'yan, A.; Ushanev, V.; Levit, N.; Sodin, L, and Baramidze, L.

Title : "Urozhay Y-2" radio receiver and transmitter

Periodical : Radio 9, 24-26, Sep 1954

Abstract : A detailed description, with circuit diagrams, of the "Urozhay Y-2" radio transmitter and receiver is presented. It is a portable transmitting and receiving amplitude-modulation station, redesigned from a similar set named the "Urozhay Y-1". The improvements of the converted set, its auxiliary equipment, power-supply and operation are described in detail. Diagrams.

Institution : ...

Submitted : ...

USHANKIN, B.I.

"Passage of Random Functions Through a Linear Dynamic System," and Synthesis of Systems With Automatic Control of Random Reactions," Reported at the Second All-Union Conference on Automatic Control Theory, Moscow, 1953

Sum in 1467

SMIRNOV, O.Ya.; GILYAREVSKIY, S.V., nauchnyy sotrudnik; USHANOV, G.F., nauchnyy sotrudnik

Modernized driving of tentering and drying machines. Tekst. prom. 25 no.4:67-69 Ap '65. (MIPA 18:5)

1. Nachal'nik otdelochnogo proizvodstva l'nokombinata imeni V.I. Lenina (for Smirnov). 2. Kostromskoy tekhnologicheskiy institut (for Gilyarevskiy, Ushanov).

USHANOV, V., kapitan 2-go ranga; KOPYTOV, I., kapitan-leytenant

Sailors are trained in naval work. Komm.Vooruzh.Sil 2 no.6:46-49 Mr '62. (MIRA 15:3)
(Communist Youth League)
(Russia--Navy--Education, Nonmilitary)

USHANOV, V.F.; POZDNYAKOV, A.A.; VARDUGIN, A.V.; CHERMENIN, B.I., student III kursa

Changes in the physicochemical properties of the wood of Siberian larch during compression. Trudy STI 34:48-55 '63. (MIRA 17:2)

USPANOVA, A.V.,
B.A. IAKH, Lenkaya Prom., II (7), 23-24 (1951)

USHANOVA, A. V.

"Investigation of the Crystallization of Highly Aluminous Slightly Alkaline and Nonalkaline Glasses." Cand Tech Sci, All Union Sci Res Inst of Glass, Min Construction Materials Industry USSR, Moscow, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

USHANOVA, A. V.

AUTHORS: Syritskaya, Z.M., Rogozhin, Yu.V., Ushanova, A.V. 72-58-6-2/19

TITLE: Alkaliless, Boronless Types of Glass for the Mechanical Production of Goods (Besshchelochnyye bezbornyye stekla dlya mashinnoy vyrabotki izdeliy)

PERIODICAL: Steklo i Keramika, 1958, [illegible] Nr 6, pp. 4-6 (USSR)

ABSTRACT: These types of glass are at present not being produced in the USSR. This investigation aims at developing these types of glass for the production of tubes and glass fibres. At the same time the question is to be examined whether it is possible to obtain this composition from raw material found in the Estonian SSR, viz. quartz sand, dolomite, and phosphorite. Chemical composition is given in table 1. The compositions of glass to be melted are given in table 2. The results obtained by the investigation of the best qualities of glass, 39 and 147, are given in table 3. The curves of the viscosity of these types of glass may be seen from the illustration. In table 4 the coefficients of thermal dilatation and the fusing temperature, determined by means of a dilatometer constructed by the Glass Institute, are given. The compositions of the types of glass melted at the maximal temperatures of 1450° and 1480° in the course of

Card 1/2

30 hours are given in table 5, and the composition of the layer is given in table 6. The forming of tubes with a diameter of 25-30 mm from glass 147 (at 1340-1360°) presented some difficulties because the glass mass cooled down rapidly. The blowing of cylinders and the pressing of glass balls was carried out without difficulties and so did the production of tubes and other blown- and pressed goods from glass 39. Burning off was carried out at 620°. The drawing of glass fibres was also carried out satisfactorily. There are 1 figure, and 6 tables.

ASSOCIATION: Institut stekla (Glass Institute)

1. Glass--Production 2. Glass--Physical properties
3. Glass--Processing 4. Glass--Viscosity

15(6)

AUTHORS: Okhotin, M. V., Professor, Doctor of Chemical Sciences, Ushanova, A. V.

SOV/72-59-2-5/21

TITLE: Influence of Fluorides Upon the Crystallization and Viscosity of Alkali-Free Highly Aluminous Glass Types (Vliyaniye ftoridov na kristallizatsiyu i vyazkost' besshchelochnykh vysokoglinozemistykh stekol)

PERIODICAL: Steklo i keramika, 1959, Nr 2, pp 15-16 (USSR)

ABSTRACT: As can be seen from the paper by V. V. Pollyak (Ref 1), fluorine compounds in the form of fluoride are added to the glass charge to accelerate the glass formation process. As is shown in figures 1 (for three-component glass) and 2 (for four-component glass) a 3 % fluoride content can be regarded as an optimum percentage. It becomes evident from figure 3 that fluorine additions lead to a decrease of viscosity.

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Influence of Fluoride Upon the Crystallization and Viscosity of Alkali-Free Highly Aluminous Glass Types SOV/72-59-2-5/21

Conclusions: By fluorine additions, glass tubes can be produced under lower temperature conditions. By a 4 % fluorine addition the production temperature can be lowered by 80 °. There are 3 figures and 1 Soviet reference.

Card 2/2

I. 3546-66 EWP(e)/EPA(s)-2/EWT(m)/EWP(i)/EPA(w)-2/EWP(b) WE
ACCESSION NR: AP5024427 UR/0286/65/000/015/0133/0133
666.29

AUTHORS: Rogozhin, Yu. V.; Syritskaya, Z. M.; Ushanova, A. V. 20 B

TITLE: A method for chemically stable enamels. 16 Class 48, No. 173567 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 133

TOPIC TAGS: enamel, paint, sulfur trioxide

ABSTRACT: This Author Certificate presents a method for obtaining chemically stable enamels. To improve the technical parameters of the enamels, SO_3" ion in the amount of 0.3-1.0% by weight is added to the original batch by introducing sulfates such as lithium sulfate.

ASSOCIATION: none

SUBMITTED: 14Dec63 ENCL: 00 SUB CODE: GC, MT

NO REF SOV: 000 OTHER: 000

mdr

Card 1/1

I. 3546-66 EWP(e)/EPA(s)-2/EWT(m)/EWP(i)/EPA(w)-2/EWP(b) WW
ACCESSION NR: AP5024427 UR/0286/65/000/015/0133/0133
666.29

AUTHORS: Rogoshin, Yu. V.; Syritskaya, Z. M.; Ushanova, A. V. 20 B

TITLE: A method for chemically stable enamels. Class 48, No. 173567 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 133

TOPIC TAGS: enamel, paint, sulfur trioxide

ABSTRACT: This Author Certificate presents a method for obtaining chemically stable enamels. To improve the technical parameters of the enamels, $SO_3^{=}$ ion in the amount of 0.3-1.0% by weight is added to the original batch by introducing sulfates such as lithium sulfate.

ASSOCIATION: none

SUBMITTED: 14Dec63 ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 000 OTHER: 000

Card 1/1

L 16790-66 EWP(e)/EWT(m) WH

ACC NR: AP6002541 (A) SOURCE CODE: UR/0286/65/000/023/0041/0042

AUTHORS: Rogozhin, Yu. V.; Syritskaya, Z. M.; Ushanova, A. V.; Mazurov, M. K.; Zadorozhnyy, V. K.; Ignat'yev, O. S.; Goroshchenko, Ya. G.

ORG: none

TITLE: A method for preparing titanium-containing enamels and glassy crystalline materials. Class 32, No. 176663

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 41-42

TOPIC TAGS: titanium, enamel, sphene, perovskite, crystalline matter, specialized coating, ceramic coating

ABSTRACT: This Author Certificate presents a method for preparing titanium-containing enamels and glassy crystalline materials. To broaden the base of raw materials and to improve the physico-chemical properties of enamels and glassy crystalline material, the minerals sphene and perovskite are introduced into the original charge.

SUB CODE: 07, 13/ SUBM DATE: 09Aug62

UDC: 666.293.5

Card 1/1

USHANOVA, N. I.

51-6-4/26

AUTHORS: Godnev, I. N., Sverdlin, A. S. and Ushanova, N. I.

TITLE: Calculation of the Normal Vibration Frequencies and of Thermodynamic Functions of Germanium Tetraiodide. (Vychisleniye chastot normal'nykh kolebaniy i termodinamicheskikh funktsiy chetyrekhiodistogo germaniya.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.II, Nr.6, pp. 704-709. (USSR)

ABSTRACT: This paper reports approximate calculation of the normal vibration frequencies for germanium tetraiodide (GeI_4). These frequencies were calculated by extrapolation of the coefficients of induction (vliyaniya) of the molecules GeF_4, $GeCl_4$ and $GeBr_4$. From the dependence of the reduced induction coefficients for the above three molecules on the equilibrium bond lengths the coefficients of induction for GeI_4 were calculated. The results are given in Table 2. The mean values of the normal frequencies of GeI_4 were found to be: 171, 60, 276 and 87 cm^{-1}. This method

Card 1/3

Ivanov Chem Tech Inst

Calculation of the Normal Vibration Frequencies and of Thermodynamic Functions of Germanium Tetraiodide.

was checked by applying it to the molecule of SiI_4. This was done by extrapolation of the inductions coefficients for SiF_4, $SiCl_4$ and $SiBr_4$. The calculated results for SiI_4 are given in Table 4. Comparison of the calculated values for the normal frequencies of SiI_4 with those obtained experimentally (Refs.15, 21) shows that the error does not exceed 20 cm^{-1} for the two higher frequencies of 168 and 405 cm^{-1}. For the SiI_4 frequencies of 63 and 94 cm^{-1} the error was only 10 cm^{-1}. The present authors conclude that the results of Jolly and Latimer (Ref.1) are incorrect. The latter two authors used Hildebrand's method (Ref.2) and obtained results which are considerably too low. Thermodynamic functions for GeI_4 are given in Table 6. They were calculated assuming harmonic vibrations and a rigid rotator model. There is 1 figure, 6 tables and 24 references, 9 of which are Slavic.

Card 2/3

51-6-4/26

Calculation of the Normal Vibration Frequencies and of Thermodynamic Functions of Germanium Tetraiodide.

ASSOCIATION: Ivanovo Chemico-technological Institute. (Ivanovskiy khimiko-tekhnologicheskiy institut).

SUBMITTED: November 19, 1956.

AVAILABLE: Library of Congress.

Card 3/3

SOV/51-5-5-11/23

AUTHORS: Ushanova, N.I., Godnev, I.N. and Orlova, I.V.

TITLE: Normal Vibration Frequencies and Thermodynamic Functions of Titanium Tetraiodide (Chastoty normal'nykh kolebaniy i termodinamicheskiye funktsii chetyrekhyodistogo titana)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 5, pp 567-570 (USSR)

ABSTRACT: The present paper reports an approximate calculation of normal vibration frequencies and thermodynamic functions of TiI_4 using the method described in Refs 1, 2. The equilibrium distance r_o between Ti and I in TiI_4 is not known. It may be calculated approximately using the covalent radius method of Ref 3. Using the known distances Ti--Cl and Ti--Br in $TiCl_4$ and $TiBr_4$, and the covalent radii of Cl and Br a value of 1.17-1.22 Å was obtained for the radius of Ti. Assuming the covalent radius of I to be 1.33 Å the authors found r_o between Ti and I to be 2.50-2.55 Å. The mean value of r_o = 2.52 Å was used in the present paper. This method of calculation of r_o was checked by finding the dimensions of Ge halides (Table 1). It was found that although the calculated values of the dimensions of GeF_4 and $GeCl_4$ departed

Card 1/3

Normal Vibration Frequencies and Thermodynamic Functions of Titanium Tetraiodide

considerably from the experimental values, the calculated value for GeI_4 (2.55 Å) was within 0.05-0.07 Å of the experimental value. This was taken as confirmation that r_o = 2.52 Å for the Ti--I distance is approximately correct. Using experimental values of frequencies the authors calculated reduced induction coefficients for $TiCl_4$ and $TiBr_4$ using equations given by Sverdlin (Ref 1). These induction coefficients are given in Table 2. Using the results of Table 2 the authors calculated reduced induction coefficients for TiI_4 for the following values of r_o: 2.47, 2.52 and 2.57 Å (Table 3). Using the calculated induction coefficients of TiI_4 the authors deduced normal vibration frequencies (Table 4). Using the value r_o = 2.52 Å and the normal vibration frequencies of TiI_4, as given in Table 4, the authors calculated thermodynamic functions on the assumption of harmonic vibrations and rigid rotations. These thermodynamic functions are given for gaseous TiI_4 at 1 atm pressure in Table 5. To estimate the largest possible error the authors calculated the thermodynamic functions at 298.2 and

Normal Vibration Frequencies and Thermodynamic Functions of Titanium Tetraiodide

1000°K for the extreme values of the frequencies and for values of r_o ranging from 2.47 to 2.57 Å (Table 6). The largest errors in thermodynamic functions were of the order of 1.5-2.0 cal/deg per mole. There are 6 tables, 1 figure and 15 references, 7 of which are Soviet, 2 English, 2 American, 1 German, 1 Japanese, 1 Belgian and 1 translation

SUBMITTED: December 31, 1957

Card 3/3 1. Titanium iodide--Spectra 2. Titanium iodide--Thermodynamic properties

GLEBOV-KOTEL'NIKOV, Erik Anatol'yevich; LIBERMAN, Erik Anatol'yevich; ZAV'YALOVA, A.N., red.; USHANOVA, S.N., ml. red.

[Mechanization of economic calculations in an enterprise] Mekhanizatsiia ekonomicheskikh raschetov na predpriiatii. Moskva, Ekonomika, 1965. 150 p. (MIRA 18:12)

USHANOVA, Ye.V.

Decreasing the acidity of raw butylacetate- and ester-containing water. Gidroliz. i lesokhim. prom. 8 no.4:21-22 '55. (MLRA 8:9)
(Acetates) (Acetic acid)

USHANSKY, J. G.

"The autoregulation of the erythropoesis." (p. 63) by Ushansky, J. G.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XXII, No. 1, 1946.

FD-945

USSR/Medicine - Physiology

Card 1/1 Pub. 33-28/29

Author : Perel'man, L. P. (Leningrad) and Ushanskiy, Ya. G. (Sverdlovsk)

Title : From letters to the editor. In reference to T. M. Turpayev's article "Method of recording the tonus of bronchial musculature"

Periodical : Fiziol. zhur. 40, 387-388, May/Jun 1954

Abstract : T. M. Turpayev's method of recording the tonus of bronchial musculature is criticized by the authors of this article. They claim that Turpayev seemed to have ignored the accepted concept about the active tonus of the lungs. The method described by T. M. Turpayev may be successfully used provided it is borne in mind that not only the tonus of the bronchial muscles is recorded, but also the active tonus of the lungs. The instrument for recording the tonus of bronchial musculature was described by T. M. Turpayev in his article published in Fiziol. zhur., 39, 732, 1953. The principles used were based on the methods developed by Konzett and Rossler.

Institution : --

Submitted : --

USHARAULI, E. A.

USSR/Chemical Technology. Chemical Products and Their Application--Treatment of natural gases and petroleum. Motor fuels. Lubricants. I-14

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9275

Author : Melikadze, L. D., Usharauli, E. A., and Chavchanidze, D. G.

Inst : Georgian Academy of Science — Inst. Chem im P.G. Melikishvili

Title : On the Presence in Oil of High-Molecular Compounds Capable of Producing Crystalline Structures

Orig Pub: Soobshch. AN GruzSSR, 1956, Vol 17, No 4, 317-320 (in Russian)

Abstract: The influence of thermal and catalytic treatment as well as of selective solvents on the separation of high-molecular compounds from petroleum crudes. It has been established that the separation of luminescent crystalline components from the high-molecular aromatic fraction is genetically related to the constitution of the crude and that these

Card 1/2

USSR/ Chemical Technology. Chemical Products and Their Application--Treatment of natural gases and petroleum. Motor fuels. Lubricants. I-14

Abs Jour: Ref Zhur--Khimiya, No 3, 1957, 9275

Abstract: crystalline components are not formed during the separation carried out by the method developed by the authors. The separation method consists in the treatment of a broad cut of oils obtained during the vacuum distillation of the crude with aniline; this results in the extraction of the aromatic hydrocarbons present in the cut. The aniline is removed by distillation, residual aniline being removed by treatment with HCl. The mixture of aromatic hydrocarbons obtained by this method is vacuum distilled into narrow fractions which are then subjected to chromatographic separation.

Card 2/2

MELIKADZE, L.D.; USHARAULI, E.A.; CHAVCHANIDZE, D.G.

Photochemical stability of the luminescence of high molecular weight petroleum fractions. Trudy Inst.khim. AN Gruz.SSR 14: 165-176 '58. (MIRA 13:4)
(Luminescence) (Petroleum products)

MELIKADZE, L.D.; ELIAVA, T.A.; USHARAULI, E.A.; CHAVCHANIDZE, D.G.

High molecular weight aromatic petroleum hydrocarbons. Trudy Inst. khim.AN Azerb.SSR 17:146-153 '59. (MIRA 13:4)

1. Insitut khimii AN GruzSSR.
(Petroleum--Analysis) (Hydrocarbons)

S/081/62/000/012/047/063
B156/B144

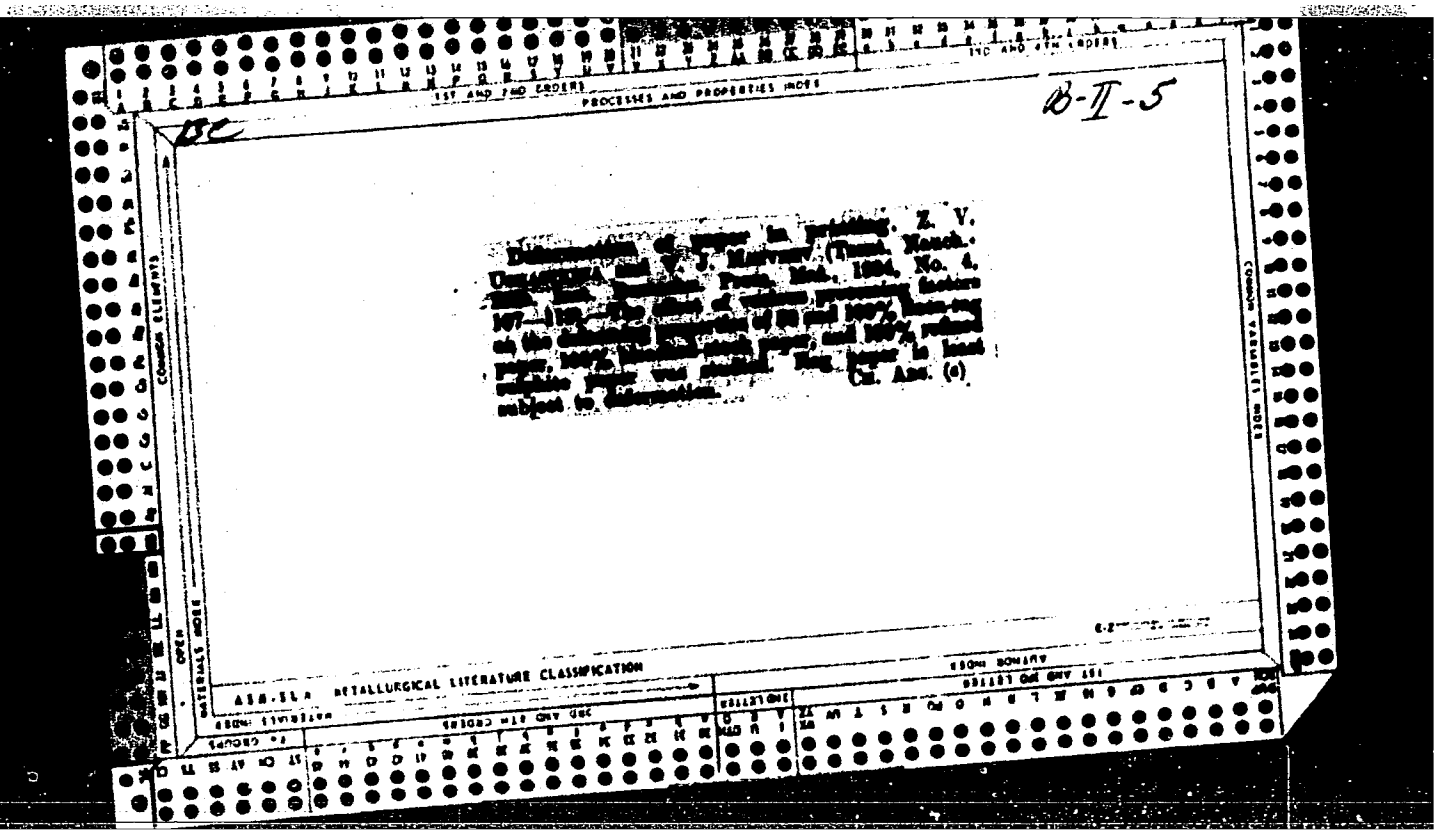
AUTHORS: Usharauli, E. A., Melikadze, L. D.

TITLE: The oxidation stability of oil fractions of petroleum

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 12, 1962, 507, abstract 12M194 (Tr. In-ta khimii AN GruzSSR, v. 15, 1961, 169 - 188)

TEXT: Hydrocarbon fractions being separated from oil fractions of Noriyskaya petroleum by the use of chromatography on silica gel, their stability (St) as regards oxidation has been investigated by the AzNII method. It has been found that the fractions of methane-naphthene hydrocarbons have higher St than the corresponding fractions of aromatic hydrocarbons, and that if the fractions of aromatic hydrocarbons with the lower St are added to those of methane-naphthene hydrocarbons the St of the latter is raised. 46 references. [Abstracter's note: Complete translation.]

Card 1/1



USHATIKOV, N.

MAKAROV, N.; USHATIKOV, N.

[First car of Soviet construction] Pervenets sovetskogo avtomobilestroeniia. Moskva, VOKS, 1947. 15 p. (MLRA 7:6)
(Automobiles)

VVEDENSKIY, T.; USHAKOV, N.

Machinery Industry

Initiative of young people, Tekh. molod, 21 No. 3, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

LEMBERIK, I.; USHATIKOV, N.

Trade-union group organizer Nikolai Bykov. Sov. profsoiuzy 4 no.7:52-55 Jl '56. (MLRA 9:10)

(Bykov, Nikolai)

USHATIKOV, N.

Important topics for factory bulletins. NTO no.3:58-59 '59.
(MIRA 12:6)

1. Zaveduyushchiy otdelom gazety "Moskovskiy avtozavodets."
(Research, Industrial)

NOVICHKOV, A.; USHATIKOV, N.

Blacksmith Sergei Sustretov. IUn.tekh. 3 no.2:14-17 F '59.
(MIRA 12:1)

(Forging)

SHUMEYKO, G.; PIMENOV, P.; ORFANITSKIY, V.; VLADYCHENKO, I.; RYABOV, N.; YEGORICHEV, A.; TARNOPOL'SKIY, A.; GURVICH, A.; USHATIKOV, N., profsoyuznyy aktivist

Let's strengthen fraternal international connections. Sov. profsoiuzy 16 no.16:49-54 Ag '60. (MIRA 13:8)

1. Nachal'nik Tsentral'nogo turistsko-ekskursionnogo upravleniya Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shumeyko). 2. Predsedatel' TSentral'nogo komiteta profsoyuza rabochikh ugol'noy promyshlennosti (for Vladychenko). 3. Sekretar' TSentral'nogo komiteta profsoyuza rabochikh elektrostantsiy i elektropromyshlennosti (for Ryabov). 4. Predsedatel' zavkoma Kuznetskogo metallurgicheskogo kombinata (for Yegorichev). 5. Predsedatel pravleniya Doma kul'tury stroiteley "Oktyabr'" (for Tarnopol'skiy). 6.Predsedatel' komissii po zarubezhnym svyazyam zavodskogo komiteta stankostroitel'nogo zavoda imeni Sergo Ordzhonikidze (for Gurvich). 7. Avtomobil'nyy zavod imeni Likhacheva (for Ushatikov).
(Russia--Relations (General) with foreign countries)

SIDOROV, N.; ANTONOV, V.; BOROVSKIY, G.; BOCHKO, L.; SOLOV'YEV, M.; SOLOKHIN, V.; TETERIN, N.; CHISTYAKOV, L.; NENASHEV, V.; USHATIKOV, N.; NOVICHKOV, A.; YARTSEV, N., red.; KUZNETSOVA, A., tekhn. red.

[Technology summons us] Tekhnika zovet. Moskva, Mosk. rabochii, 1961. 194 p. (MIRA 15:2)
(Technological innovations) (Automation)

NOVICHKOV, A.; USHATIKOV, N.

To the front positions. IUn.tekh. 5 no.5:14-16 My '61. (MIRA 14:5)

(Altai Territory--Farm mechanization)

NOVICHKOV, A.; USHATIKOV, N.

Visit to a millionaire. Nauka i zhizn' 28 no.12:26-29 D '61.
(MIRA 15:2)
(Moscow--Automobile industry) (Antropov, Valentin IAkovlevich)

USHATIKOV, N.; APATOV, V.

Young people dare. NTO 4 no.11:18-19 N '62. (MIRA 16:1)

1. Zaveduyushchiy otdelom redaktsii gazety "Moskovskiy avtozavodets" (for Ushatikov). 2. Redaktor radioveshchaniya Moskovskogo avtomobil'nogo zavoda imeni Likhacheva (for Apatov).
(Dump trucks)

USSR / Forestry. Forest Management K-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 43939

Author : Ushatin, P. N.

Inst : Not given

Title : Tree Ages in Forest Restoration Fellings in the Forest-Steppe Zone and in the Mountain Forests of the Caucasus

Orig Pub: Les. kh-vo, 1956, No 10, 3-9

Abstract: It is stated that the tree stands in the Tellerman forest are being ruined. In its 140 years the current added growth has comprised only 0.3 cubic meters per hectare, the forest-renewal fellings have to be carried out in the 141st and not 151st year. In the overmature pine forests of the

Card 1/2

USSR / Forestry. Forest Management K-4

Abs Jour: Ref Zhur-Biol., No 10, 1958, 43939

Khrenov Range the forest-renewal fellings should commence on the 141st and not the 121st year as is provided by the regulations. The natural maturity of the short-trunk oak groves of the IV-V class locality in fox-tail grass soils is reached in about 50 years and in 55 years the natural falling of the trees exceeds the current accretion. The age for the forest-restoration fellings under these conditions should be lowered to 51 years instead of the recommended 60 years. The beginning of forest-renewal fellings for fir and spruce in the forests of Caucasus should be timed to the 280th year and not to the 101st year. The fellings in the mountain pine forests of Caucasus should begin at the age of 180 years, and in the beech forests at the age of 200 years. - I. N. Yelagin

Card 2/2

Country : USSR
Category: Forestry. Forest Management. K

Abs Jour: RZhBiol., No 11, 1958, No 48742

Author : Ushatin, P.N.; Lonov, V.M.
Inst : -
Title : Cutting Methods of Principal Produce in the Fir Forests of Northern Caucasus.

Orig Pub: Lesn. kh-vo, 1957, No 12, 8-12

Abstract: No abstract.

Card : 1/1

CATEGORY : Forestry. General Problems.

ABS. JOUR : Ref Zhur -Biologiya, No. 5, 1959, No.20099

AUTHOR : Ushatin, P.N.
INST. : Not given
TITLE : The Untended Pitsundskiy Relict Pine Wood

ORIG. PUB.: Lesn. kh-vo, 1958, No. 7, 82.

ABSTRACT : Pitsundskiy pine wood is a highly productive close stand 80 - 300 years old and of I locality class. There are 8 - 40 year old strips of undergrowth in the canopy gaps. The underbrush consists of hornbeam, butchersbroom, sumac and common seabuckthorn; the soil cover is poorly developed. Attention is focussed on the great scientific value of this rare relict stand and on the lack of any measures to renew the pine and protect the stand.--L.V. Nesmelov

CARD: 1/1

USHATIN, V.S.; SAVITSKIY, N.F., red.; NOGOVITSYN, V.N., red.

[Use of a slide rule in the calculation of a.c. networks; methodological manual for students of technical institutions] Primenenie logarifmicheskoi lineiki pri raschete elektricheskikh tsepei peremennogo toka; uchebno-metodicheskoe posobie dlia uchashchikhsia tekhnikumov. n.p. Rosvuzizdat, 1963. 14 p. (MIRA 17:4)

UGRATINSKAYA, F. G. (Moscow)

"Research work concerning the periodic changes in metabolism during the development of insects".

Theoretical and Practical Work Carried out by Entomologists. reported at All-Union Entomological Conference, Georgian Dept. A-U Entomological Society, Tbilisi, 4-9 Oct 1957.
<u>Vestnik AN SSSR</u>, 1958, v. 28, No, 1, p. 129-30 (author Gilyarov, M. S.)

USHATINSKAYA, Z. S.

"Basic Measures for the Protection of Orchards from Agricultural Pests and Diseases, State Technological-Economical Publishing House of Food Industry, Moscow, 1943, 150 pp. 423 Us3

SO: JIRA, 31 90-53, 15 December 1953

USHATINSKAYA, R.S.

62- Course of several processes in the insect body for protection against low temperatures. R. S. Ushatinskaya. *Doklady Akad. Nauk S.S.S.R.* 68, 1101-5(1949).—During hibernation the body wt. falls and fat reserves are used. The exact course of the biochem. changes depends, however, on the stage of hibernation (early or late), the external temp., and the species. During the early period of normal hibernation of *Laspeyresia pomonella* larvae the water content fell more rapidly than that of the wt. of the whole body. During this period fat content expressed as percent of the body wt. increased. After the period of dehydration water content in terms of percent of the body wt. increased until nearly normal at the close of the diapause. The fat content decreased during this period. Under lab. conditions (cold rooms kept at 10–11°, 3–5°, −1 to −2°, −4 to −5°, and −9 to −11° and close to 100% relative humidity) body wt. decreased as length of exposure increased. Loss of fat was slower at the lower temps. At pos. temps. water content in terms of percent of body wt. increased with length of exposure to cold, but the percentage of fat decreased. At neg. temps. the percentage of water decreased and fat increased. Lab. expts. on the pea weevil, *Bruchus pisorum*, were run under the same conditions as for *L. pomonella* except for the highest temp. and the substitution of 0 to −1° for −1 to −2° used for *L. Pomonella*. At the two highest temp. intervals, *B. pisorum* showed an increase in water content in terms of percent of body wt. and a decrease in fat content. At neg. temps. there was a decrease in percentage of water and an increase in fat content. The formation of metabolic water is one of the biochem. processes assocd. with hibernation. Nellie M. Payne

USHATINSKAYA, R.S.; MAKHOTIN, A.A.

Effect of mineral oil emulsion of DDT on the imago of a new generation of harmful insects. Doklady Akad. nauk SSSR 81 no.5:969-972 11 Dec 51.
(CIML 21:5)

1. Presented by Academician K.I. Skryabin 19 October 1951.
2. Institute of Animal Morphology imeni A.M. Severtsov, Academy of Sciences USSR.