

OSTANKOV, Ye.V., inzh.

Efficient organization of the transportation of live stock
products. Zhel.dor.transp. 41 no.11:32-36 N '59.

(MIRA 13:2)

(Farm produce--Transportation)

OS. A. S. ...

... A. Inzhenery ... A.
S. Inz.

Leninrada
i dorozhno-mashinostroyeniya

... ..

SO: Collections of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow 1951

LAPIN, O.F.; KRUSHCHEV, M.S.; GORODINSKAYA, Ye.A.; KOCHERGINSKIY, M.M.
TELYANKEVICH, V.S.; SHARFMAN, S.D.; OSTANOV, Kh.

Improving the smelting of boron carbide. Prom.energ. 12 no.8:17-18
Ag '57. (MIRA 10:10)
(Boron carbides) (Smelting)

S/080/60/033/059/1-1-2.
A003/A001

AUTHORS: Klebanov, G.S., Ostankevich, N.A.

TITLE: The Interaction of Selenium With Aqueous Solutions of Sulfites of Alkali Metals

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 9, pp. 1957-1961

TEXT: The solubility of selenium in solutions of sodium and potassium sulfite was studied within the temperature range of 0-152°C. It was established that the solubility of selenium is characterized by the coefficients

$$K_1 = \frac{\text{Se}}{\text{SO}_3^{2-}} \quad \text{and} \quad K_2 = \frac{\text{SeSO}_3^{2-}}{\text{SO}_3^{2-}}$$

which are directly proportional to the concentration of SO_3^{2-} at constant temperature. At a pH value above 7.3-7.5 the solubility of selenium increases and at lower pH values it decreases due to side reactions taking place. At a given pH value and constant temperature the solubility of selenium depends only on the SO_3^{2-} concentration. In the case of intensive mixing of the reaction mass at 200 rpm of the stirrer and a temperature of 90°C equilibrium is attained in the

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S/O93/60/033/00-000-1-1
A003/A001

The Interaction of Selenium With Aqueous Solutions of Sulfites of Alkali Metals ✓

solution after 30 min. Under equal initial conditions (concentrations of the sulfites, pH value, intensity of stirring, size of selenium crystals) the equilibrium in the solution is attained at 90°C 25 times faster than at 20°C. There are 5 figures, 1 table and 5 references: 4 Soviet, 1 German.

SUBMITTED: March 17, 1969

Card 2/2

OSTANKOVICH, B.F.

The ZhBA-3,5 unified bean harvester. Blul.tekh.-ekon.inform.-
Gos.nauch.-issl.inst.nauch. i tekhn.inform. no.6:04-06 '62.

(MIRA 15:7)

(Beans--Harvesting)

NIKITENKO, I.T., kand.sel'sko-khozyaystvennykh nauk; OSTANKOVICH, B.F.,
inzh.

Machinery for continuous harvesting of cereal crops.
Mashinostroenie no.4:89-92 J1-Ag '62. (MIRA 16:7)

1. Gosudarstvennoye seriyno-konstruktorskoye byuro Zaporozhskogo
soveta narodnogo khozyaystva. 2. Ukrainskiy nauchno-issledo-
vatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo
khozyaystva (for Ostankovich).

(Harvesting machinery)

OSTANKOVICH, B.F., inzh.

The KIR-1,5 rotor-type mower-grinder. Trakt. i sel'khozmasn.
32 no.5:39-40 My '62. (MIRA 15:5)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po
zernoborochnym mashinam.

(Mowing-machines)

OSTANOVA, M. M.

OSTANOVA, M. M. - "Hemiptera Harmful to Alfalfa and Measures to Combat Them."
Uzbek State U imeni Alisher Navoi. Samarkand, 1955. (Dissertation for
the Degree of Candidate in Biological Sciences)

So; Knizhnaya Letopis', No 3. 1956

USSR / General and Social Zoology. Insects. Part 1
Insects of the USSR. Part 1 of 2. Part 1.

Acta Journ: Russ Jour-Biol., No 14, 1958, 241-242.

Author : V. G. KRYZHEVA, M. M.

Instit : Zoologicheskii Institut.

Title : "List of insects of the alfalfa in
Sverdlovskaya Oblast".

Crit Pub: Tr. Inst. Zool., 1958, vol. 67, 241-242.

Abstract: A list was offered of 20 species of the family
Tritidae, which damaged alfalfa in various districts
in 1951-1955. The most substantial damage to the
alfalfa fruit organs is caused by *Trichodes*
lineolatus, *oculosectus cognatus* (these bugs
hibernate in the egg phase and develop in 4-5
generations). *Caritobrochis punctulatus*, *Trichodes*
oculatus flavosparvus, *Lygus pratensis* (these

Card 1/2

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USSR / General and Special Zoology. Insects. Paper full
Insects and Arachnids. Pests of Forage Cultures.

Abstract: Zool. Zhurn.-Biol., No 14, 1959, 540-550.

Abstract: This dipterite in the insect stage and have
3-4 generations. The biology of the most
damaging species, *J. lineolatus* and *J.*
punctulatus, is explained. The alfalfa bug is
found on alfalfa each year from early spring to
late fall in great numbers (200-250 larvae and
imago on an average of 50 swines by a hoop-net).
Only the second and third generations of *J. punct-*
ulatus have an economic value. A phenologic
calendar for both bugs for 1953-1955 is supplied.
-- A. P. Adrianov.

Card 2/2

OSTANOVA, M.M.

Materials on the biology of the gray beet-leaf bug (*Poeciloscytus cognatus*
fieb). Trudy UzGU no. 87:183-188 '59. (MIRA 14:5)
(Samarkand Province--Leaf bugs)
(Alfalfa--Diseases and pests)

OSTANOVSKIY, T.

Claims of photoamateurs on industry. Sov. torg. 36 no.11:
13-15 N '62. (MIRA 16:1)
(Photography--Apparatus and supplies)

NAGRODSKIY, Yu.; OSTANOVSKIY, T.

New packing materials. Sov. torg. 35 no.9:45-48 S '62. (MIRA 16:2)
(Packaging)

OSTANOVSKIY, T.

Bring photographic equipment up to present-day standards. Sov.
foto 23 no.4:37 Ap '63. (MIRA 16:5)
(Photography--Apparatus and supplies)

VARFOLOMEYEV, F.G.; GEL'FENSOYN, M.Sh.; KOTOVICH, Yu.V.;
OSTANOVSKIY, T.S.; SEMENETS, V.M.; SHIROKOVA, Ye.A.;
EYGINSON, Ye.N.; VVEDENSKIY, S.F., red.; SHEL'NIKOVA,
TS.B., red.; TSESARKIN, L.D., red.

[Study of goods serving cultural needs] *Tovarovedenie
kul'ttovarov.* [By] F.G.Varfolomeev i dr. Moskva, Izd-vo
Ekonomika, 1964. 471 p. (MIRA 17:5)

ARKHANGEL'SKIY, N.A., doktor tekhnicheskikh nauk, redaktor; ANDEUSEVICH, D.A., kandidat pedagogicheskikh nauk, redaktor; OSTANOVSKIY, T.S., dotsent, kandidat tekhnicheskikh nauk; ORLOVA, G.A., redaktor izdaniya; MKDRISH, D.M., tekhnicheskiiy redaktor

[Manual for the specialist on industrial goods and commodities] Spravochnik tovaroveda promyshlennykh tovarov. Moskva, Gos. izd-vo trgovoi lit-ry. Pt.3. [Chemicals and drugs; glass ware; ceramics; metal goods; electric apparatus; sewing machines for household use; watches; jewelry; furniture; carpets; building materials. Organization and management of trade in industrial goods] Khimiko-moskatel'nye tovary. Stekliennye tovary. Keramicheskie tovary. Metallicheskie tovary. Elektricheskie tovary. Shveinye mashiny semeinogo tipa. Chasy. IUverlirnye tovary. Mebel'. Kovrovye tovary. Stroitel'nye tovary. Organizatsiia i tekhnika trgovli promyshlennymi tovarami. 1956. 615 p. (Commerce) (Manufactures) (MLRA 10:3)

Technology

Handbook on commercial aspects of cultural value. Moskva, Istorizdat, 1961.

Monthly List of Russian Acquisitions, Library of Congress, June 1961. OLC 73111.

OSTANOVSHIY, T., dot sent;; SEMENOV, A.

Customers are waiting for good cameras. Sov. foto 22 no.7:34-35 JI '62.
(MIRA 16:4)

1. Institut narodnogo khozyaystva imeni Plekhanova (for Ostanovskiy).
2. Starshiy inzhener Upravleniya kul'ttovarov Glavnogo upravleniya po mezhrespublikanskiy postavkam tovarov narodnogo potrebleniya (for Semenov).

(Cameras)

SERGBYEV, Mikhail Yefifanovich, 1889- , redaktor; OSTANOVSKIY, T.S., redaktor

[Industrial wares; a commercial guide] Tovarovedenie promyshlennykh
tovarov. Moskva, Gos-torgizdat, 1949-1954. 3 v. (NLRA 9:9)
(Commercial products)

BIBIN, Leonid Pavlovich; VARPOLOMEYEV, F.G.; KALGANOV, D.I.; OSTANOVSKIY,
T.S.; PUSHKIN, V.S.; TRAKHTENBERG, G.L.; MAKSIMOVICH, A.G., red.;
SUDAK, D.M., tekhn.red.

[School and office supplies, musical instruments, photographic
supplies, radio equipment, athletic goods, hunting and fishing
equipment, toys] Tovary shkol'no-pis'mennye, kantseliarskie, muzykal'-
nye, foto, radio, sportivnye, okhotnich'i, rybolovnye, igrushki.
Moskva, Gos. izd-vo torg. lit-ry, 1958. 328 p. (MIRA 11:4)
(Manufactures)

ABRAMOV, B.R.; ALEKSEYEV, N.S.; ARKHANGEL'SKIY, N.A., prof.
[licensed]; GUREVICH, B.S.; ZAYTSEV, V.G.; KEDRIN, Ye.A.,
MIRONOVA, L.V.; OSTANOVSKIY, T.S., dots.; FALLADOV, S.S.,
dots.; SERGEYEV, M.Ye.; TER-OVAKI'YAN, I.A.; TSEREVITIN, V.
B.F.; SHCHEGLOV, L.M.; YAKOVLEV, A.I.; BORISOVA, G.A.,
red.; MEDRISH, D.M., tekhn. red.

[Study of manufactured goods; concise course] Tovarovede-
nie promyshlennykh tovarov; kratkii kurs. [By] F.R. Abramov
i dr. Izd. 2., perer. Moskva, Gostorgizdat, 1963. 768 p.
(MIRA 16:11)

(Commercial products)

Ostanovskiy, T.S.

ARKHANGEL'SKIY, N.A., dotsent, kandidat tekhnicheskikh nauk; ANDRUSVICH, D.A., kandidat pedagogicheskikh nauk; OSTANOVSKIY, T.S., dotsent, kandidat tekhnicheskikh nauk; ORLOVA, G.A., redaktor; MEORISH, D.M., tekhnicheskii redaktor

[Manual of manufactured goods] Spravochnik tovaroveda promyshlennykh tovarov. Moskva, Gos. izd-vo torgovoi lit-ry. Pt. 2. [School and stationery supplies. Photographic supplies. Musical instruments. Radio equipment. Sports goods. Automobiles, motorcycles and bicycles. Hunting equipment. Fishing equipment. Toys.] Shkol'no-pis'mennye i kantseliarskie tovary. Fototovary. Muzykal'nye tovary. Radiotovary. Sportivnye tovary. Avtomobili, mototsikly, velosipedy. Okhotnich'i tovary. Rybolovnye tovary. Igrushki. 1956. 348 p. (MIRA 9:3)
(Manufactures)

STANOVSKIY, Tankhuv Samoylovich, VVEDENSKIY, S.F., red.: EL'KINA, E.M.
"GR...".

Paper, cards, school stationery and office equipment and supplies; manual]Bumaga, karton, shkol'no-pis'mennye i kantse-larskie tovary. spravochnik. Moskva, Gostorgizdat, 1962. 151 p.
(MIRA 16:2)

(Office equipment and supplies)
(Schools---Furniture, equipment, etc.)

OSTANOVSKIY, Tankhum Samoylovich; GRANOVSKAYA, I.Ye., red.; MEDRISH, D.M.,
tekh.n.red.

[Consumers' goods for recreational purposes] Tovarovedenie kul't-
tovarov. Moskva, Gos. izd-vo torg. lit-ry, 1958. 368 p.

(MIRA 12:2)

(Russia--Manufactures) (Recreation--Equipment and supplies)

YEGOROV, P.I., prof.; OSTANYUK, F.Ye., kand.med.nauk (Moskva)

Discussion on P.K. Bulatov and M.A. Stukkei's article "Novocaine block of the anterior mediastinum in the treatment of patients with chronic coronary insufficiency." *Klin.med.* 38 no.12:129-130 D '60. (MIRA 14:2)

1. Galen-korrespondent AMN SSSR (for Yegorov).
(CORONARY HEART DISEASE) (NOVOCAINE) (LOCAL ANESTHESIA)

CASETTI, M. dr.; DASCALU, Maria, dr.; CETAP, B. dr.; SMILOVICI, S., dr.;
PREDA, L. chim.; DUMITRIU, I., dr.; MUNTEANU, Elena, dr.

Clinical value of the quantitative study of bile sediment
collected at intervals of a minute. Med. intern. (Bucur.)
16 no.7:819-826 J1'64.

1. Lucrare efectuata in Clinica a IV-a medicala, Iasi (director: conf. N. Goldenberg).

GOLDENBERG, N., conf.; BLUM, M, dr.; OSTAP, B., dr.; ABABEI, V., dr.

Gastric and duodenal ulcer: are they 2 different diseases? Med.
intern. 15 no.2:153-162 F '63.

1. Clinica medicala, Spitalul "C.I.Parhon", Iasi (director: conf.
N. Goldenberg).

(STOMACH ULCER)

(DUODENAL ULCER)

GOL'DENBERG, N., dotsent; OSTAP, B.

Clinical and therapeutic observations concerning chronic segmental nonspecific enteritis. Therap.arkh. 34 no.2:90-96 '62.

(MIRA 15:3)

1. Iz terapevticheskoy kliniki (dir. - dotsent N. Gol'denberg),
bol'nitsy imeni K. Parkhona, Yasskogo meditsinskogo instituta.
(INTESTINES--DISEASES)

TURCHENKO, P.I.; MESSERLE, P.Ye.; OSTAPCHENKO, A.V.

Heat processing and drying of coal. Koks i khim. no.16:7-
10 '61. (MIRA 15:2)

1. Kuznetskiy metallurgicheskiy kombinat.
(Coal)

TURCHENKO, P.I.; MESSERLE, P.Ye.; OSTAPCHENKO, A.V.

Methods for determining the load on the belt conveyor. *Koks i khim.*
no.8:55-56 '62. (MIRA 17:2)

1. Kuznetskiy metallurgicheskiy kombinat.

TURCHENKO, P.I.; OSTAPCHENKO, A.V.

Determination of the accumulated gas content of coke ovens. Koks
i khim. no.2:29-30 '61. (MIRA 14:2)

1. Kuznetskiy metallurgicheskiy kombinat.
(Coke ovens) (Gases--Analysis)

OSTAPCHENKO, N.I.

Modernization of a railroad steam crane. Mashinostroenie no.4:
17 J1-Ag '63. (MIRA 17:2)

OSTAPCHENKO, N.S.

Crosbie bedding machine. Mashinostroenie no.6:109 M-D '62.
(MIRA 16:2)

(Railroads--Ties)

OST 10-110, Ye. S.

X-ray analysis of the system FeO - Fe₂O₃ - Fe₃O₄ -
Cr₂O₃ - Fe₂O₃ and Fe₂O₃ - Fe₃O₄ (3. 1hr. at 1000°C).
No. 4437-741 F-D 1. (1-17:2)
(Systems (Cr₂O₃ - Fe₂O₃ - Fe₃O₄ - FeO))

ZHMUD, Ye.S.; IVANOVA, A.B.; KOTLYAR, A.A.; OSTAPCHENKO, Ye.P.

X-ray diffraction study of alloys in the system BaO - GeO.
Zhur, neorg.khim. 7 no.11:2581-2590 N '62. (MIRA 15:12)
(Barium oxide) (Germanium oxide)
(X rays—Diffraction)

9 (3)

SOV/112-57-5-10957

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 201 (USSR)

AUTHOR: Ostapchenko, Ye. P.

TITLE: Methods of X-Ray Diffraction Study of Oxide-Coated Cathodes
(O metodikakh rentgenostrukturnogo issledovaniya oksidnykh katodov)

PERIODICAL: Tr. n.-i. in-ta. M-vo radiotekhn. prom-sti SSSR, 1956.
Nr 1 (29), pp 34-47

ABSTRACT: Methods of x-ray diffraction study of oxide-coated cathodes are described as adapted to crystallographic analysis of double and triple carbonates. Firing of carbonates in air at 700°C to remove the crystallization water permitted obtaining fairly clear x-ray pictures in Evensen's chambers using Cu or Co characteristic radiation. As a result of an investigation of the x-ray pictures obtained, it was found that Ba and Sr carbonates deposited jointly form an "aragonite"-type solid solution with continuously changing lattice constants depending on the components ratio. In the system $BaCO_3$ -

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SOV/112-57-5-10957

Methods of X-Ray Diffraction Study of Oxide-Coated Cathodes

CaCO_3 , mixed crystals of "aragonite" (BaCO_3 100-80%) or "calcite" (BaCO_3 under 60%) or both systems (BaCO_3 60-80%) are formed; each of the systems is a solid solution of both carbonates. The same pattern is followed by a triple carbonate and the system SrCO_3 - CaCO_3 . The presence of SiO_2 impurity introduced by carbonate grinding was detected en passant. To investigate the alkali-earth metal oxides unstable in air, a method was developed of opening the bulb in an inert atmosphere and of protecting the cathodes by a wax layer in a special hermetically sealed chamber with a glass window and hose-type rubber gloves. This method was used to investigate the crystalline structure of the double and triple oxides, the process of decomposition of carbonates into oxides, and the change in composition of double oxides during the cathode operation. It was determined roentgenographically that an admixture of Si results in formation of a Ba_2SiO_4 layer, that Al forms BaAl_2O_4 , and that W forms Ba_3WO_6 . To determine the thickness of such a barrier layer of known

Card 2/3

OSTAYOVENKO, E. P.

dem Levodopa. H. S. Zhurav, V. N. Ivanova, and E. P.
Doravchenko, U.S.S.R. 104,623, Mar. 25, 1957. Ba
Levodopa used as the active component in Levodopa
M. Huzeh

477
not yet

MAKLAPOV, A.A.; OSTAPCHENKO, Ye.P.

X-ray investigation of the kinetics of formation of barium
calcium aluminates and tungstates. Zhur. struk. khim. 1 no.2:178-182
Л-Аг '60. (MIRA 13:9)

(Barium calcium aluminate)

(Barium calcium tungstate)

S/078/62/007/011/002/005
B101/B186

AUTHORS: Zhmud', Ye. S., Ivanova, A. B., Kotlyar, A. A., Ostapchenko, Ye. P.

TITLE: X-ray examination of melts in the BaO - GeO₂ system

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 11, 1962, 2581-2590

TEXT: Mixtures of BaCO₃ with GeO₂ in which both components varied between 0-100 mole% were sintered at 920-1250°C in air or at 920°C in a hydrogen atmosphere. X-ray spectra were recorded under CuK_α radiation using the aragonite type of BaCO₃ and rhombohedral GeO₂. The lattice constants of these compounds agreed with published data (A. I. Kitaygorodskiy, Rentgenostrukturnyy analiz melkokristallicheskih i amorfnykh tel (X-ray Analysis of Fine-crystalline and Amorphous Substances), Gostekhizdat, 1950). Results. (1) Specimens sintered at 1050°C in air with a BaCO₃:GeO₂ ratio = 1:1 formed a single phase. On the basis of data obtained by H. Koelmans, C.M.C. Verhagen (J. Electrochem. Soc., 106, 677 (1959)), the single phase was identified as BaGeO₃; it was present in a ratio of up to 1:3. Using BaCO₃:GeO₂ = 1:2, BaGe₂O₅ was formed, and using ratios of 2:8 and 1:3, the specimen contained unchanged GeO₂ as well as BaGe₂O₅. Using

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S/078/62/007/011/002/005
B101/B106

X-ray examination of melts in the...

the ratios 6:4, 2:1, 7:3, 5:1, 4:1, and 3:1, Ba_2GeO_4 was formed which, at 2:1, is present as a single phase; this was identified from the similarity of its structure to that of Ba_2SiO_4 (A. Austin, J. Amer. Ceram. Soc., 30, 218 (1947)). Using even higher proportions of $BaCO_3$ gave rise to lines which were attributed to various barium hydroxides. (?) At $1200^\circ C$ in air it was found that specimens containing 0-30% GeO_2 and 100-70% BaO produced $BaO + Ba_2GeO_4$; those with a content of 30-50% GeO_2 produced $BaGeO_3 + Ba_2GeO_4$; those with 50-100% GeO_2 gave rise to $BaGeO_3 + GeO_2$; but $BaGe_2O_7$ is not formed, for at this temperature it readily decomposes into $BaGeO_3 + GeO_2$.

(3) At $920^\circ C$ in a hydrogen atmosphere, using a $BaO:GeO_2$ ratio of 9:1, the phase composition was $BaCO_3 + X +$ traces of $BaGeO_4$, where X denotes an unidentified phase probably consisting of various barium hydroxides. For ratios from 5:1 to 7:1 the composition is $Ba_2GeO_4 + X$; at 2:1 the Ba_2GeO_4 occurs as a single phase; using 6:4 to 1:1 there are traces of Ge along

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X-ray examination of melts in the...

S/078/62/007/011/002/005
B101/B186

with the Ba_2GeO_4 ; using 2:8 there is $Ba_2GeO_4 + Ge$, and for 1:9 there is $Ge + Ba_2GeO_4$. This paper was presented at the VII Nauchno-tehnicheskoye soveshchaniye po primeneniyu rentgenovskikh luchey k issledovaniyu materialov (7th Scientific and Technical Conference on the Application of X-rays to Examination of Materials). Leningrad, 1961. There are 5 figures and 4 tables.

SUBMITTED: February 23, 1962

Card 3/3

26 2531
9.3120(1003,1137,1140)

S/109/60/005/008/008/024
E140/E555

AUTHORS Bondarenko B.V. Ostapchenko, Ye P. and Tsarev B.M.
TITLE Thermionic Properties of Alkali-Earth Metal Tungstates
PERIODICAL Radiotekhnika i elektronika 1960, Vol 5 No 8,
pp.1246-1253

TEXT: The work functions and structures of a number of compounds, listed in the three tables were studied by means of X-rays and electron-microscopy. The objects were firstly to find the barium tungstate compounds with optimum stability in vacuum at working temperatures of 1400-1700°K secondly to find those with the best emission properties and thirdly to determine the effects of substitution of calcium and strontium for barium in the tungstates. The technology employed has been previously described (Ref.1) It was found that these tungstates may be synthesized by sintering in air as well as in hydrogen as previously done. The high temperature stability of Ba_3WO_6 and $BaWO_4$ was already known from the literature a new phase Ba_2WO_5 is found to have the same property. A number of compounds has been studied for the first time. It was found that Ba_3WO_6 on tantalum
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S/109/60/005/008/008/024
E140/E555

Thermionic Properties of Alkali-Earth Metal Tungstates

has better emission properties than on tungsten. For the tantalum base the basic tantalate is superior to tungstate. There are 3 figures, 3 tables and 3 references. 2 Soviet and 1 non Soviet.

SUBMITTED: December 21, 1959

Card 2/2

ZHRUD', Ye.S.; OSTAPCHENKO, Ye.P.

X-ray diffraction study of the systems BaO-WO₃, BaO-MoO₃, and BaO-Ta₂O₅.
Zhur. strukt. khim. 2 no. 1:33-45 Ja-F '61. (MIRA 14:2)
(Barium oxide) (Tungsten oxide) (Molybdenum oxide)
(Tantalum oxide)

BONDARENKO, B.V.; OSTAPCHENKO, Ye.P.; TSAREV, B.M.

Thermionic properties of alkaline earth tungstates. Radiotekh.
i elektron. 5 no.8:1246-1253 Ag '60. (MIRA 13:8)
(Thermionic emission) (Alkaline earth tungstates)

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52200 1043 1273 1136

S/12/61/002/001/002/006
B*07/B2*6

AUTHORS: Zhmud', Ye S and Ostapchenko, Ye P

TITLE: Radiographic study of the systems BaO - WO₃, BaO - MoO₃, and BaO - Ta₂O₅

PERIODICAL: Zhurnal struktury khimii v. 2, no. 1, 1961, 33-45

TEXT: The authors radiographically investigated the different phases of the systems BaO - WO₃, BaO - MoO₃, and BaO - Ta₂O₅. The compounds of these systems are of interest for developing thermionic emitters. The samples were prepared by annealing mixtures of BaCO₃ and Me oxide (Me = W, Mo, Ta) in the air, or in hydrogen. The samples were heated at 100°C/hr, and after two hr cooled in the furnace. For this investigation, PKA (RKD) cameras (diameter 57.5 mm) were attached to the apparatus YPC-55 (URS-55) and YPC-70 (URS-70) (copper emission). Besides, a device of the type YPC-50W (URS-50I) for recording the ionization of the scattered emission (scanning rate 2°/min) was used. The study of the system BaO - WO₃ at 1,200°C led to

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S/92/6/CO2/001/002/006
B'07/B2'8

Radiographic study .

the following results. $\text{BaO}\cdot\text{WO}_3$, tetragonal, a being 5.56, and c being 12.76 Å; $3\text{BaO}\cdot\text{WO}_3$, pseudocubic, face-centered, a being 8.61; $2\text{BaO}\cdot\text{WO}_3$, structure unknown. The d values for these compounds are given in Table 3. When stored in the open air at room temperature, tungstates remain unchanged for several months. An electron-microscope study with the microscope EM-3 (EM-3) showed that, contrary to the other tungstates, $3\text{BaO}\cdot\text{WO}_3$ is needle-shaped. Mixtures with a molar ratio $\text{BaCO}_3:\text{WO}_3 < 2:3$ melted on heating. After careful studies, the authors came to the conclusion that a compound $\text{BaO}\cdot 2\text{WO}_3$ forms, which melts at 940-950°C. $\text{BaO}\cdot\text{WO}_3$ was found to form already after 2-hr heating at 850°C. Table 4 gives data on the phases of the system $\text{BaO} - \text{MoO}_3$. The X-ray pictures are very similar to those of tungstates of analog composition. The authors also synthesized $2\text{BaO}\cdot\text{MoO}_3$, which is, however, unstable and decomposes within a few days. In the system $\text{BaO} - \text{Ta}_2\text{O}_5$, the authors synthesized five barium tantalates, by working with hydrogen atmosphere, and at different temperatures: $5\text{BaO}\cdot\text{Ta}_2\text{O}_5$,

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4 $\text{BaO}\cdot\text{Ta}_2\text{O}_5$, $7\text{BaO}\cdot 3\text{Ta}_2\text{O}_5$, $\text{BaO}\cdot\text{Ta}_2\text{O}_5$, and $3\text{BaO}\cdot\text{Ta}_2\text{O}_5$. It is possible that the compounds $7\text{BaO}\cdot\text{Ta}_2\text{O}_5$ and $3\text{BaO}\cdot\text{Ta}_2\text{O}_5$ are actually $2.5\text{BaO}\cdot\text{Ta}_2\text{O}_5$ and $\text{BaO}\cdot 2.5\text{Ta}_2\text{O}_5$ respectively. The experimental results are given in Table 5. Table 6 shows the d values for the following compounds: $7\text{BaO}\cdot 3\text{Ta}_2\text{O}_5$, $4\text{BaO}\cdot\text{Ta}_2\text{O}_5$, and $5\text{BaO}\cdot\text{Ta}_2\text{O}_5$. Practically, the same results were obtained when heating the system $\text{BaO} - \text{Ta}_2\text{O}_5$ in air to 1,100, 1,200, and 1,300°C. Nevertheless, the authors state that the results concerning the above system are not yet and need a further proof. There are 7 figures, 6 tables, and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications read as follows: E. G. Steward, H. P. Rooksby. Nature, 157, 548 (1946); R. J. Hughes, P. P. Coppola, T. H. Evans. J. Appl. Physics, 23, no. 6, 635 (1952); E. G. Steward, H. P. Rooksby. Acta crystallogr., 4, 503 (1951).

SUBMITTED: February 28, 1959

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Radiographic study ...

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B107/B218

Table 3: Relative intensities and spacings of the roentgenograms of barium tungstates.

Legend: 1) number of the line

BaO.WO ₃			2BaO.WO ₃						3BaO.WO ₃		
№ линии	I	d (Å)	№ линии	I	d (Å)	№ линии	I	d (Å)	№ линии	I	d (Å)
1	100	3,34	1	44	3,50	17	9	1,89	1	100	3,05
2	33	3,17	2	17	3,32	18	26	1,84	2	5	2,58
3	44	2,78	3	100	3,18	19	35	1,78	3	29	2,15
4	68	2,09	4	87	3,07	20	14	1,74	4	38	1,78
5	18	1,97 ₀	5	62	2,97	21	33	1,71	5	7	1,65
6	35	1,85 ₀	6	40	2,84	22	22	1,68	6	13	1,52
7	47	1,69 ₀	7	44	2,72	23	24	1,68	7	7	1,40
8	37	1,67 ₀	8	31	2,64	24	21	1,63	8	12	1,38 ₀
9	16	1,57 ₀	9	22	2,40	25	15	1,59	9	2	1,31 ₀
10	13	1,37 ₀	10	17	2,28	26	11	1,55	10	3	1,27 ₀
11	27	1,35 ₀	11	25	2,21	27	4	1,49 ₀	11	4	1,23 ₀
12	14	1,28 ₀	12	22	2,18	28	15	1,45 ₀	12	3	1,20 ₀
13	8	1,25 ₀	13	49	2,10	29	32	1,43 ₀	13	7	1,15 ₀
14	14	1,23 ₀	14	10	2,07	30	8	1,39 ₀	14	3	1,12 ₀
15	7	1,20 ₀	15	40	1,95	31	14	1,38 ₀			
16	14	1,16 ₀	16	9	1,91	32	13	1,32 ₀			

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Radiographic study ...

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Table 4: Experimental results of the system BaO - MoO₃, annealing in air.
Legend: 1) BaCO₃:MoO₃ in mole%; 2) phase composition of the samples after 2-hr heating in air to ...°C; * temperature rise within about 4 hr, cooling in the furnace; ** temperature rise within about 5 hr, cooling in the furnace; *** temperature rise within about 6 hr, cooling in the furnace; **** temperature rise at 100°C/hr, cooling in the furnace; 3) the sample volatilized; C.N.A.U. - traces.

Table 5: Experimental results of the system BaO - Ta₂O₅, annealing in hydrogen.

Legend: 1) phase composition of the samples after 2-hr heating in hydrogen to ...°C; C.N.A.U. - traces.

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остаток образцов, прожаренных

① BaCO ₃ : MoO ₃ (исходные %)		② Фазовый состав 500 °C	
90 : 10	9 : 1	BaCO ₃ + BaO·MoO ₃ + следы MoO ₃	
83,34 : 16,66	5 : 1	BaCO ₃ + BaO·MoO ₃ + MoO ₃	
80 : 20	4 : 1		
75 : 25	3 : 1		
70 : 30	7 : 3		
66,67 : 33,33	2 : 1		
60 : 40	3 : 2	BaO·MoO ₃ + MoO ₃ + BaCO ₃	
50 : 50	1 : 1	BaO·MoO ₃ + MoO ₃ + BaCO ₃ + + (?) следы BaO·2MoO ₃	
40 : 60	2 : 3	BaO·MoO ₃ + MoO ₃ + BaCO ₃ + + (?) BaO·2MoO ₃	
33,33 : 66,67	1 : 2	MoO ₃ + BaO·MoO ₃ + (?) BaO·2MoO ₃ + + BaCO ₃	
30 : 70	3 : 7	MoO ₃ + BaO·MoO ₃ + BaCO ₃ + + (?) BaO·2MoO ₃	
20 : 80	1 : 4		
10 : 90	1 : 9		

500 °C
BaCO ₃ + BaO·MoO ₃
BaO·MoO ₃ + BaC ₂ O
BaO·2MoO ₃
BaO·MoO ₃ + BaO·2MoO ₃
образец улетучился

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Radiographic study S/192/61/002/001/002/006
 на воздухе в течение 2 часов при температурах: 3107/3216

Table 5
CONT.

1000 °C***	1200 °C***
$\text{BaCO}_3 + 2\text{BaO} \cdot \text{MoO}_3 +$ + следы $3\text{BaO} \cdot \text{MoO}_3$	$\text{BaCO}_3 + 3\text{BaO} \cdot \text{MoO}_3 +$ + (?) следы $\text{BaO} \cdot \text{MoO}_3 + (?)$ $3\text{BaO} \cdot \text{MoO}_3 + (?) \text{BaO} \cdot \text{MoO}_3 +$ + (?) следы $2\text{BaO} \cdot \text{MoO}_3 + \text{BaCO}_3 + (?)$ $3\text{BaO} \cdot \text{MoO}_3 + (?) \text{BaO} \cdot \text{MoO}_3 +$ + $\text{BaCO}_3 + (?)$ следы $2\text{BaO} \cdot \text{MoO}_3 + (?)$
$\text{BaCO}_3 + 2\text{BaO} \cdot \text{MoO}_3 +$ + следы $3\text{BaO} \cdot \text{MoO}_3 + \text{BaO} \cdot \text{MoO}_3$	$2\text{BaO} \cdot \text{MoO}_3 + (?) \text{BaCO}_3 +$ + (?) $\text{BaO} \cdot \text{MoO}_3$
$\text{BaO} \cdot \text{MoO}_3 + 2\text{BaO} \cdot \text{MoO}_3 +$ + (?) следы BaCO_3	$\text{BaO} \cdot \text{MoO}_3 + 2\text{BaO} \cdot \text{MoO}_3 + (?) \text{BaCO}_3$
$2\text{BaO} \cdot \text{MoO}_3 + \text{BaO} \cdot \text{MoO}_3 + (?) \text{BaCO}_3$	$\text{BaO} \cdot \text{MoO}_3 + 2\text{BaO} \cdot \text{MoO}_3 +$ + (?) следы BaCO_3
$\text{BaO} \cdot \text{MoO}_3 + 2\text{BaO} \cdot \text{MoO}_3$	$\text{BaO} \cdot \text{MoO}_3 + 2\text{BaO} \cdot \text{MoO}_3$
$\text{BaO} \cdot \text{MoO}_3$	$\text{BaO} \cdot \text{MoO}_3$
$\text{BaO} \cdot \text{MoO}_3 +$ следы $\text{BaO} \cdot 2\text{MoO}_3$	$\text{BaO} \cdot \text{MoO}_3 + (?)$ следы $\text{BaO} \cdot 2\text{MoO}_3$
$\text{BaO} \cdot \text{MoO}_3 + \text{BaO} \cdot 2\text{MoO}_3 + (?)$	

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③ образец улетучился

③ образец улетучился

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BaCO ₃ : Ta ₂ O ₅	(3) Фазный состав образцов при:	
	1000°C	1100°C
9 : 1	5BaO · Ta ₂ O ₅ + (?)	5BaO · Ta ₂ O ₅ + (?)
7 : 1	5BaO · Ta ₂ O ₅	5BaO · Ta ₂ O ₅
5 : 1		5BaO · Ta ₂ O ₅ + + следы 4BaO · Ta ₂ O ₅
4,5 : 1		5BaO · Ta ₂ O ₅ + + следы 7BaO · 3Ta ₂ O ₅
4 : 1		5BaO · Ta ₂ O ₅ + 4BaO · Ta ₂ O ₅
3 : 1		4BaO · Ta ₂ O ₅ + 7BaO · 3Ta ₂ O ₅ + + следы 5BaO · Ta ₂ O ₅
7 : 3	5BaO · Ta ₂ O ₅ + 7BaO · 3Ta ₂ O ₅ + + следы BaO · Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + 4BaO · Ta ₂ O ₅
2 : 1	7BaO · 3Ta ₂ O ₅ + 5BaO · Ta ₂ O ₅ + + следы BaO · Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + + следы β-Ta ₂ O ₅
3 : 2	7BaO · 3Ta ₂ O ₅ + следы BaO · Ta ₂ O ₅ + + следы β-Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + + следы β-Ta ₂ O ₅
1 : 1	7BaO · 3Ta ₂ O ₅ + BaO · Ta ₂ O ₅ + + β-Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + + 3BaO · 7Ta ₂ O ₅ + β-Ta ₂ O ₅
2 : 3	7BaO · 3Ta ₂ O ₅ + β-Ta ₂ O ₅ + + BaO · Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + + 3BaO · 7Ta ₂ O ₅ + β-Ta ₂ O ₅ + следы BaO · Ta ₂ O ₅ + β-Ta ₂ O ₅
3 : 7	β-Ta ₂ O ₅ + BaO · Ta ₂ O ₅ + + 7BaO · 3Ta ₂ O ₅	β-Ta ₂ O ₅ + 3BaO · 7Ta ₂ O ₅ + + BaO · Ta ₂ O ₅
1 : 4		β-Ta ₂ O ₅ + 3BaO · 7Ta ₂ O ₅ + + BaO · Ta ₂ O ₅
1 : 9	β-Ta ₂ O ₅ + BaO · Ta ₂ O ₅	β-Ta ₂ O ₅ + 3BaO · 7Ta ₂ O ₅
0 : 1	β-Ta ₂ O ₅	β-Ta ₂ O ₅

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1300°C	1500°C
5BaO · Ta ₂ O ₅ (?)	5BaO · Ta ₂ O ₅ (?)
5BaO · Ta ₂ O ₅	5BaO · Ta ₂ O ₅ + + следы 4BaO · Ta ₂ O ₅
5BaO · Ta ₂ O ₅ + 4BaO · Ta ₂ O ₅	4BaO · Ta ₂ O ₅ + + 5BaO · Ta ₂ O ₅
4BaO · Ta ₂ O ₅ + + следы 5BaO · Ta ₂ O ₅	4BaO · Ta ₂ O ₅
4BaO · Ta ₂ O ₅ · 7BaO · 3Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + + 4BaO · Ta ₂ O ₅
7BaO · 3Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅ + + 3BaO · 7Ta ₂ O ₅
7BaO · 3Ta ₂ O ₅ + 3BaO · 7Ta ₂ O ₅	7BaO · 3Ta ₂ O ₅
7BaO · 3Ta ₂ O ₅ + 3BaO · · 7Ta ₂ O ₅ + BaO · Ta ₂ O ₅	3BaO · 7Ta ₂ O ₅ + + BaO · Ta ₂ O ₅ + + следы 7BaO · 3Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + BaO · Ta ₂ O ₅ + + 7BaO · 3Ta ₂ O ₅ + следы - β-Ta ₂ O ₅	3BaO · 7Ta ₂ O ₅ + (?)
3BaO · 7Ta ₂ O ₅ + β-Ta ₂ O ₅ + + следы α-Ta ₂ O ₅ + 7BaO · · 3Ta ₂ O ₅ + следы BaO · Ta ₂ O ₅	3BaO · 7Ta ₂ O ₅ + α-Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + β-Ta ₂ O ₅ + + α-Ta ₂ O ₅ + следы 7BaO · · 3Ta ₂ O ₅ + следы BaO · Ta ₂ O ₅	3BaO · 7Ta ₂ O ₅ + α-Ta ₂ O ₅ + следы 3BaO · 7Ta ₂ O ₅
β-Ta ₂ O ₅ + α-Ta ₂ O ₅ + + 3BaO · 7Ta ₂ O ₅ (?)	α-Ta ₂ O ₅
β-Ta ₂ O ₅ + α-Ta ₂ O ₅	α-Ta ₂ O ₅

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1600°C

5BaO · Ta ₂ O ₅ (?)
5BaO · Ta ₂ O ₅ + 4BaO · Ta ₂ O ₅
4BaO · Ta ₂ O ₅ + 5BaO · Ta ₂ O ₅
4BaO · Ta ₂ O ₅ + 7BaO · 3Ta ₂ O ₅
7BaO · 3Ta ₂ O ₅ + 4BaO · Ta ₂ O ₅
7BaO · 3Ta ₂ O ₅ + 3BaO · 7Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + 7BaO · · 3Ta ₂ O ₅ + BaO · Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + BaO · Ta ₂ O ₅ + + следы 7BaO · 3Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + BaO · Ta ₂ O ₅ + + следы α-Ta ₂ O ₅ + + следы 7BaO · 3Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + BaO · Ta ₂ O ₅ + + следы α-Ta ₂ O ₅
3BaO · 7Ta ₂ O ₅ + α-Ta ₂ O ₅ + + BaO · Ta ₂ O ₅
α-Ta ₂ O ₅ + 3BaO · 7Ta ₂ O ₅
α-Ta ₂ O ₅

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Table 6: Relative intensities (visual estimation) and spacings of the roentgenograms of barium tantalates.

Legend: 1) number of the lines; c. - strong, cp. - medium, сл. - weak, o. - very.

LINE NUMBER	7BaO·3Ta ₂ O ₅		4BaO·Ta ₂ O ₅		3BaO·Ta ₂ O ₅		LINE NUMBER	7BaO·3Ta ₂ O ₅		4BaO·Ta ₂ O ₅		3BaO·Ta ₂ O ₅	
	l	d (A)	l	d (A)	l	d (A)		l	d (A)	l	d (A)	l	d (A)
1	o. c.	3,07	c.	3,18	o. c.	3,01	9	c.	1,35 ₁	c.	1,52	cp.	1,34 ₁
2	c.	2,89	c.	3,03	c.	2,12	10	c.	1,30 ₁	c.	1,36 ₁	сл.	1,22 ₁
3	c.	2,10	c.	2,20	o. сл.	2,01	11	c.	1,19 ₁	cp.	1,32 ₁	cp.	1,13 ₁
4	c.	1,82	o.	1,78	c.	1,92					1,30 ₁		
5	c.	1,71	c.	1,75	o. c.	1,74	12	cp.	1,13 ₁	cp.	1,27 ₁		
6	cp.	1,87	cp.	1,08	o. сл.	1,57	13	c.	1,10 ₁	c.	1,25 ₁		
7	c.	1,54	o. сл.	1,62	cp.	1,51	14	c.	1,09 ₁				
8	c.	1,44 ₁	сл.	1,59	cp.	1,36 ₁							

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SOV/137-59-4-7945

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 4, p 84 (USSR)

AUTHORS: Maklakov, A.A., Mel'nikov, A.I., Morozov, A.V., Ostapchenko, Ye.P.

TITLE: A Method of Obtaining Tri-Barium Tungstate >1

PERIODICAL: Avt. sv. USSR 113045, 15.08.58

ABSTRACT: The described method of obtaining Ba_2WO_6 yields products of greater homogeneity and higher purity than previously known methods. In consists in the joint precipitation of Ba tungstenate and Ba carbonate from an aqueous solution of $(NH_4)_2WO_4$, $(NH_4)_2CO_3$ and $Ba(NO_3)_2$. Three weight portions of $(NH_4)_2WO_4$ and $(NH_4)_2CO_3$ are dissolved in 10 weight portions of water, the solutions are mixed, heated up to $60^\circ C$ and a solution of 1 weight portion $Ba(NO_3)_2$ and 7 weight portions of water, heated up to $60^\circ C$, is added. The precipitate is filtrated, dried for 1 hour at $\sim 100^\circ C$ and roasted at $\sim 1,400^\circ C$. Hereby a $BaWO_4 + 2BaCO_3 = Ba_3WO_6 + 2CO_2$ reaction takes place. The yield of the finished product is 96 - 98% of the theoretical amount.

Ye.Z.

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S/032/60/026/04/40/046
B010/B006

AUTHORS: 1) Ivanov, K.A., 2) Konstantinov, V.A., 3) Ostapchenko, Ya.P.,
Reshetnikov, A.M., 4) Avayev, V.V., 5) Mokhov, L.A., Dzedzichek, V.P.,
6) Lutugina, N.V.

TITLE: News in Brief

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 504-506

TEXT: 1) The author reports on the development of X-ray apparatus for measuring stresses of first order in welded designs. The apparatus (Fig., photograph) comprises a switchboard, high voltage transformer, X-ray tube (in a casing), a stand for the latter, a chamber, and mechanisms for vibrating and rotating the specimen. P.M. Lebedev and P.V. Shepelev collaborated in designing the chamber and the stand. A brief description of the apparatus is given. 2) The author recommends the use of an attachment (Fig.) for taking photographs of coarse-crystalline specimens by the 1-KROS camera. The specimen which is fixed by a holder, is shifted by means of a cam which has the shape of opposite Archimedean spirals. Cam rotation shifts the specimen by $\sin^2 \alpha$, where α - angle.

Card 1/2

BONDARENKO, B.V.; OSTAPCHENKO, Ye.P.

Thermionic properties of alkaline earth tungstates. Nauch.dokl.
vys.shkoly; radiotekh.i elektron. no.4:239-245 '58.

(MIRA 12:6)

1. Moskovskiy fiziko-tekhnicheskiv institut.
(Alkaline earth tungstates)

BADZYAKA, M.M.; OSTAPCHIK, S.A. [Astapchyk, S.A.]; PARKHIMOVICH, V.I.

Recrystallization of nickel under induction heating. *Ventsi AN*
BSSR Ser. fiz.-tekh. nav. no. 1:120-125 '61. (MIRA 14:4)
(Nickel—Heat Treatment) (Crystallization)

ONCHUKOV, D.N.; OSTAPCHIK, V.P.

Laboratory studies on heat and moisture transport in soil
samples. Pochvovedenie no.7:53-59 JI '63. (MIRA 16:8)

1. Vysshaya shkola Ministerstva vnutrennikh del.
(Soil moisture) (Soil temperature)

OSTAPCHIK, V.P., agronom

Subirrigation system with tile drains. Gidr. i mel. 13 no.9:
14-23 S '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i
melioratsii. (Irrigation)

OSTAPCHIK, V.P.

inform. no. 10:64-65 '59. (MIRA 13:3)
(Soil moisture--Measurement)

OSTAPCHIK, Vladimir Petrovich; DVOYASHOV, V., red.; POKHLEBKINA, M.,
tekhn. red.

[Subirrigation] Podpochvennoe oroshenie. Moskva, Mosk. rabochii,
1962. 27 p. (MIRA 15:5)
(Moscow Province--Irrigation)

OSTAPCHUK, A.D.

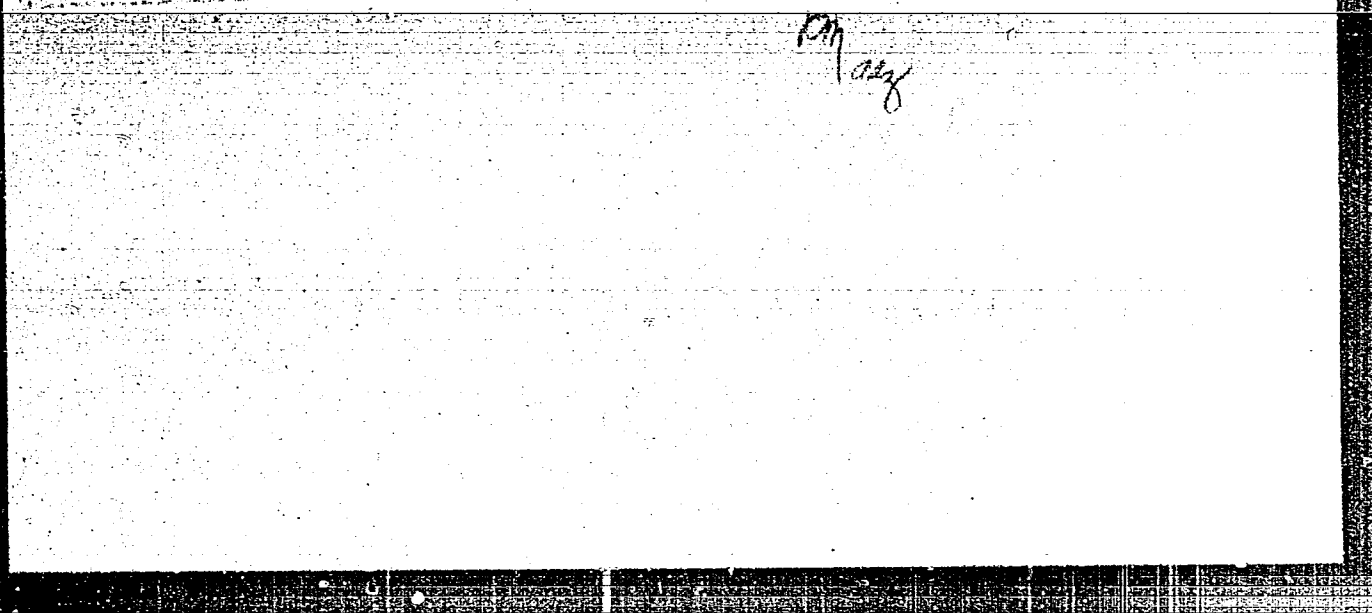
Cases of benign tumors of the stomach. Sov.med. 23 no.7:
127-128 J1 '59. (MIRA 12:11)

1. Iz khirurgicheskogo otdeleniya (sav. - kand.med.nauk Ya.S.
Meyerzon) Neksikanskoy rayonnoy bol'nitsy (glavnyy vrach A.D.
Ostapchuk) Magadanskoy oblasti.
(STOMACH neoplasms)

OSTAPCHUK, A.D.

Studies on the use of antibiotics in practical medicine.
Sov.med. 22 no.11:133-134 N '58 (MIRA 11:11)

1. Iz rayonnoy bol'nitsy Susumanskogo rayona Magadanskoy oblasti
(glavnyy vrach A.D. Ostapchuk).
(ANTHIBIOTICS, ther. use
in med. dis. (Rus))



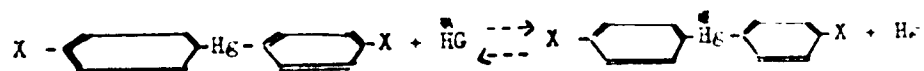
AUTHORS: Reutov, O. A., and Ostapchuk, G. M.

20-117-5-28/54

TITLE: Isotopic Exchange Reaction Between Symmetric Organomercuric Compounds of the Aromatic Series and Metallic Mercury Labelled by Hg^{203} (Reaktsiya izotopnogo obmena simmetrichnykh rtutnoorganicheskikh soyedineniy aromaticheskogo ryada s metallicheskoj rtut'yu, mechennoy Hg^{203}).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 826-828 (USSR)

ABSTRACT: The authors carried out a systematic investigation of the reactivity of various types of organomercuric compounds in the reactions of the isotopic exchange with metallic and haloid mercury. In present paper in this connection diaryl-mercury was investigated under the conditions given in the title. It was surprising that the symmetric organomercuric compounds react with metallic mercury under very mild conditions

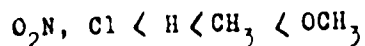


The velocity of the reactions depends considerably on the character of X. The reaction conditions are given. The

Card 1/4

Isotopic Exchange Reaction Between Symmetric Organomercuric 20-117-5-28/5
Compounds of the Aromatic Series and Metallic Mercury Labelled
by Hg^{203}

following figures can give an explanation of this velocity. The equilibrium for diphenyl-mercury is reestablished in xylene at 140° within 30 minutes. In dioxane at 60° within 2 hours and 45 minutes. For di-p-anisyl-mercury: in dioxane at 60° within one hour. In benzene at 20° within 16 hours. The exchange is accelerated by the rise of temperature, as well as within certain limits by the increase of the mercury excess. Furthermore the dependence of the velocity of the isotopic exchange on the structure of the substituent X was determined. The experiments were carried out in pyridine. The results are given in table 1. They show that the velocity of the reaction of the isotopic exchange depends on the structure of the substituent X and increases in the order

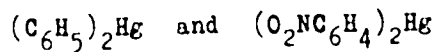


The preciseness of the experiments does not facilitate the detection for the authors which compound, dinitro-phenyl-mercury or dichlorophenylmercury reacts quicker with metallic

Card 2/4

Isotopic Exchange Reaction Between Symmetric Organomercuric
Compounds of the Aromatic Series and Metallic Mercury Labelled
by Hg²⁰³ 20-117-5-28/54

mercury. The mild reaction conditions are obvious, especially in the case of di-anisyl-mercury which reacts already in the cold. Apparently the reaction takes place directly between the molecules of the diaryl- and the metallic mercury. For this speak also the results of the isotopic exchange of the phenyl-p-nitrophenyl-mercury. After the isotopic equilibrium has been obtained, in the reaction mixture only the initial phenyl-p-nitrophenyl-mercury was found. If the reaction passes the stage of formation of free phenyl- and nitrophenyl-radicals,



are bound to exist in the reaction mixture besides the mentioned initial substance.
There are 1 table, and 5 references, all of which are Slavic.

Card 3/4

Isotopic Exchange Reaction Between Symmetric Organomercuric 20-117-5-28/54
Compounds of the Aromatic Series and Metallic Mercury
Labelled by Hg²⁰³

ASSOCIATION: State University imeni M. V. Lomonosov, Moscow
(Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova).

PRESENTED: October 25, 1957, by A. N. Nesmeyanov, Academician

SUBMITTED: October 24, 1957

Card 4/4

REUTOV, O.A.; OSTAPCHUK, G.M.; REMOVA, V.A.

Isomerization of a free dideutero-n-propyl radical in solutions.
Izv. AN SSSR. Ser.khim. no.3:519-524 Mr '64. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

5 (3)

AUTHORS: Reutov, G. A., Ostapchuk, G. M.

SOV/70-21-5-11/75

TITLE: The Reaction of the Isotopic Exchange Between Aryl-mercury Chlorides and Metallic Mercury Marked by Hg^{203} (Реакция изотопного обмена арилмеркурохлоридов с металлической ртутью, меченой Hg^{203})

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1614-1617 (USSR)

ABSTRACT: In a previous paper (Ref 1) the following reaction was described: $(p-XC_6H_4)_2Hg + Hg \rightleftharpoons (p-XC_6H_4)_2Hg + Hg$. The reaction rate depended on the substituent X and increased in the following order: $O_2N < COOC_2H_5 < Cl < H < CH_3 < CCH_3$. The present paper investigates the reaction $p-XC_6H_4-HgCl + Hg \rightleftharpoons p-XC_6H_4-HgCl + Hg$. It took place in a solution of aryl-mercury chloride in anhydrous pyridine at 60° and at 1500 rpm/min approximately of the mixer. After certain intervals samples were taken, the colloidal mercury centrifuged off, the aryl-mercury-chloride precipitated by means of water

Card 1/3

The Reaction of the Isotopic Exchange Between 007/79-29-5-11/79
 Aryl-mercury Chlorides and Metallic Mercury Marked by Hg^{203}

acidified with hydrochloric acid, filtered and recrystallized. The substance dissolved again in organic liquid (chloroform, acetone) was dropped on a standard filter, and this thin layer coated with plexiglass lacquer. The radioactivity was determined by means of the counter MS-1. The results of repeated experiments are given in a table. The authors observed a reaction rate higher than that of diaryl compounds as well as an increase in the reaction rate in the order $O_2H < C_2H_5OCC < < Cl < H, CH_3$. Since free radicals are not formed in mono-aryl compounds even by irradiating the solution with ultra-violet light, the reaction mechanism is explained by the formation of a four-membered, activated complex:



There are 1 table and 2 references.

Card 2/2

The Reaction of the Isotopic Exchange Between ²⁰¹Pb and ²⁰¹Pb
Methyl-mercury Chlorides and Metallic Mercury Marked by ²⁰¹Pb

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

DATE: April 9, 1956

Card 3/3

REUTOV, O.A.; OSTAPCHUK, G.M.

Isotopic exchange reaction between symmetric aromatic mercury
compounds and the metallic mercury Hg^{203} . Dokl. AN SSSR 117
no.5:826-828 D '57. (MIRA 11:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
Predstavleno akademikom A.N.Nesmeyanovym.
(Mercury organic compounds) (Mercury--Isotones)

REUTOV, O. A., GSTAICHUK, G. M., U Yan-Tsuy, SMOLINA, T. A. and ERCL', F., (Moscow State University in. M. V. Lomonosov)

"The Use of Radioactivity Mercury Hg for Studying the Exchange Reaction of a Certain Atom." p. 27

Isotopes and Radiation in Chemistry, Collection of papers of 2nd All-Union Sci. Tech. Conf. on Use of Radioactive and Stable Isotopes and Radiation in National Economy and Science, Moscow, Izd-vo AN SSSR, 1958, 380pp.

This volume published the reports of the Chemistry Section of the 2nd AU Sci Tech Conf on Use of Radioactive and Stable Isotopes and Radiation in Science and the National Economy, sponsored by Acad Sci USSR and Main Admin for Utilization of Atomic Energy under Council of Ministers USSR Moscow 4-12 Apr 1957.

GSTAPCHUK, G. M.: Master Chem Sci (diss) -- "A study of the reaction of lactone exchange of diaryl-mercury compounds and aryl-mercury halides with metallic mercury tagged with Hg^{203} ". Moscow, 1958. (Moscow State Order of Lenin and Order of Labor Red Banner State U in Lomonosov), 100 copies (KL, No 1, 1958, 111)

OSTAPCHUK, I.

Our experience in building beet pulp processing stations.
S11'. bud. 11 no.5:12-13 My '61. (MIRA 14:6)

1. Glavnyy inzh. Staro-Konstantinovskoy mezhkolkhoznoy
stroitel'noy organizatsii Khmel'nitskoy oblasti.
(Staro-Konstantinov--Bagasse)

OSTAPCHUK, I. F. Cand Med Sci -- (diss) "Electrocardiographic indicators
in hypertension patients, and their dynamics during sanatorium and climatic
^{therapy} ~~outings~~ on the ^{southern} ~~southern~~ shore of the Crimea." Simferopol', 1957. 18 pp
(Crimea; State Med Inst im Stalin), 200 copies (KL, 14-50, 117)

OSTAPCHUK, I.F. (Yalta)

Change in electrocardiographic data in patients with hypertension during health-resort and climatotherapy on the southern shore of the Crimea. Vrach.delo no.7:679-683 J1 '57. (MLRA 10:8)

1. Nauchno-issledovatel'skiy institut klimatologii i klimatoterapii im. I.M.Sechenova i kafedra chastnoy patologii i diagnostiki vnutrennikh bolezney (zav. - prof. A.B.Shakhnazarov) Krymskogo meditsinskogo instituta

(CRIMEA--CLIMATOLOGY, MEDICAL)

(ELECTROCARDIOGRAPHY) (HYPERTENSION)

SI X 7159 121 1

Translation from Referativnyi Zhurnal - Metallurgiya, 1960, No. 1, p. 100, 101 (USSR)

AUTHORS: Agaletskiy, F. N., Ostapchuk, I. V.

TITLE: The Reduction Rate of Ferric Oxide of Krivoy Rog Quartzite to a Magnetic Oxide as a Function of Temperature, Composition of Gas, and Particle Size. (Skorost' vosstanovleniya oksida zheleznykh krivorozhskogo kvartcита do magnitnoy oksidy zavisimosti ot temperatury, sostava gaza i razmera chastits)

PERIODICAL: Byul. Nauchno-tekhn. inform. Ukr. in-stit. met. metallov, 1960, No. 2, p. 99-101

ABSTRACT: Lean ferric quartzites of the hematite variety may be concentrated by the method of magnetic separation, after having been crushed, by completely expose the grains, and by the method of magnetic roasting. Depending on the procedures employed during roasting and subsequent cooling, the end product may contain predominantly magnetite or the magnetite-hematite (γ - Fe_3O_4). The process of magnetic roasting of Krivoy Rog quartzites (4.4% Fe, 1.8% FeO, and 1.1% SiO_2) was investigated, the quartzites being taken in six different fractions (1-2, 0.1-2, 0.2-2, 0.3-2, 0.4-2, 0.5-2, 0.6-2, 0.7-2, 0.8-2, 0.9-2, 1.0-2).

Card 1-2

SOV. 27 59 118

The Reduction Rate of Ferric Oxide of Krasov Rog Quartzite (cont.)

(-0.5 + 0.1 mm) The quartzites were treated in a suspended state with coke or producer gas at temperatures of 100-800°C, and were then cooled to room temperature in an atmosphere of N₂. After the products of roasting had been analyzed chemically, the degree of magnetization, i.e., $\frac{\% \text{Fe}^2+}{100 - \% \text{Fe}^2+} \times 100\%$ was evaluated. The experimental data are presented in the form of graphs. It is seen that the temperature of roasting and reducing the dimensions of the quartzite particles tends to increase the degree of magnetization of the end product. In order to attain complete reduction of the Fe₂O₃ of quartzite to Fe₃O₄ (equivalent to a 100% magnetization) with the aid of coke or producer gas, 12-20 sec of roasting at a temperature of 800°C are required in the case of the -0.5 + 2.5 mm fraction, and 5-0.5 sec in the case of the -0.5 + 0.1 mm fraction. It is pointed out that the results of these experiments may be utilized in designing industrial plants for the roasting of quartzite in a suspended (fluidized) state.

Y. V.

Card 2 2

KHITRO, Ye.V.; KOSTOMAROV, M.I.; OSTAPCHUK, L.I.

Rapid method of detecting Fe_2O_3 in a calcareous-iron compound.
Ogneupory 25 no.5:237-238 '60. (MIRA 14:5)

1. Pervoural'skiy dinasovyy zavod.
(Iron oxides--Analysis) (Pyrites--Analysis)

OSTAPCHUK, M.V., polkovnik

Military reform of 1924-1925 and the nations antiaircraft troops.
Vest.protivovozd.obor. no.3:73-76 Mr '61. (MIRA 14:7)
(Antiaircraft artillery)

OSTAPCHUK, M.V., polkovnik

APPROVED FOR RELEASE: Wednesday, June 21, 2000. CIA-RDP86-00513R001

Vest.protivovozd.obor. no.3:47-51 '61.
(MIRA 14:8)
(World War, 1939-1945--Aerial operations)

KOTLYAR, Leon Iosifovich; KESTEL'MAN, Nusya Yakovlevich; OSTAFCHUK,
Nikolay Vasil'yevich; VAYNBERG, Anton Antonovich; DENISENKOVA,
L.M., red.; SOKOLOV, A.Ya., prof., doktor tekhn. nauk, red.

[Design and operation of sieves in screening machines] Kon-
struktsiia i ekspluatatsiia sit proseivaiushchikh mashin.
Moskva, 1963. 130 p. (MIRA 17:7)

MELAMED, M., inzh.; OSTAPCHUK, N., inzh.

Operation of ZSM-10 sieve-air separators and their shortcomings.
Muk.-elev. prom. 26 no. 12:17-18 D '60. (MIRA 13:12)

1. Tashkentskiy mel'nichnyy kombinat No.2.
(Separators (Machines))

MARGOVSKIY, Ye., inzh.; OSTAPCHUK, N., inzh.

Pneumatic-tube transportation in the grain-cleaning section
of the Tashkent Grain Milling Combine. Muk.-elev. prom. 26
no. 11:13 N '60. (MIRA 13:11)

1. Tashkentskiy mel'kombinat (for Margovskiy). 2 Odesskiy
tekhnologicheskii institut im.I.V. Stalina (for Ostapchuk).
(Tashkent--Flour mills) (Pneumatic-tube transportation)

VOLOSHIN, M.Ya., student; DYUMIN, O.V., student; OSTAPCHUK, N.A., student

Effect of a vagosympathetic block on compensation mechanisms in loss
of blood. Vrach.delo no.6:655 Ja '57. (MLR 10:8)

1. Kafedra normal'noy fiziologii (zav. - prof. F.N.Serkov) Odesskogo
meditsinskogo instituta
(HEMORRHAGE) (LOCAL ANESTHESIA)

OSTAPCHUK, N.V.

Effect of the feed characteristics of the product on the performance
of roller mills. *Izv.vys.ucheb.zav.; pishch.tekh.* no.5:92-97
'59. (MIRA 13:4)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina, kafedra
tekhnologicheskogo oborudovaniya.
(Flour mills)

PANCHENKO, A.V.; OSTAPCHUK, N.V.; KOTLYAR, L.I.

Effect of the load volume of the roll mill on the intensity
of grain crushing. Izv.vys.ucheb.zav.; pishch.tekh. no.4:
117-123 '59. (MIRA 13:2)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina.
Kafedra tekhnologicheskogo oborudovaniya.
(Grain-milling machinery)

OSTAPCHUK, N. V., Cand. Tech. Sci. (diss) -- "The productivity of a roll stand as a function of the input of product to the rolls". Odessa, 1960. 110 pp. (Min Higher and Inter Spec. Machine BSR, Odessa Tech. Inst. Im. I. V. Malin), 200 copies (KL, No. 4, 1960, 125)

1. OSTROVSKY, P. P.
2. U.S.R (600)
4. Drug Industry
7. Let us carry out the decisions of the 19th Party Congress. Med. Front. no. 6, 1951.

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

1. OSTAPCHUK, P. F.
2. USSR (600)
4. Medical Instruments and Apparatus
7. Let us carry out the decisions of the 19th Party Congress. Med. prom. no. 6 1952.

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

PA 11/19704

OSTAPCHUK P. F.

USSR/Medicine - Industry and Occupation Jan/Feb 49
Medicine - Drugs, Legislation

"Tasks of the Medical Industry," P. F. Ostapchuk,
Deputy Min of Health USSR, 6 1/2 pp

"Med Prom SSSR" No 1

Summarizes results achieved in 1948 and outlines
plans for 1949. Mentions following factories:

"Akrikhin," imeni Karpov, "Alkaloidnyy,"
"Krasnogvardeyets," imeni Semashko, Kursk
Chemicophar, Novosibirsk Chemicophar, Mozhaysk
Medico-Instr, Gor'kiy Medico-Instr imeni Lenin,
Leningrad Optico-Mech, and "IDA."

FIB

hh/1076h

62/49771

USSR/Medicine - Drugs, Standardization
Medicine - Factories

"The Specialization of Chemical-Pharmaceutical
Factories," P. F. Ostapchuk, Dept Min of Sanitation USSR, 7 pp

"Med Prom SSSR" No 4

Discuss existing problems and tasks indicated by
Ye. I. Smirnov, Min of Sanitation, in decree No
563, 13 Sep 48, "The Specialization and Standard-
ization of Chemical-Pharmaceutical Factories," and
points out basic conditions which influenced the
Minister's decision. Stresses necessity of
JPD 62/49771

USSR/Medicine - Drugs, Standardization (Contd) Jul/Aug 48

Improvement in the medical industry and expan-
sion of its production. Workers' tasks are to
increase production of medical supplies, improve
quality of medical instruments, drugs, and equip-
ment, and at the same time decrease cost of pro-
duction.

OSTAPCHUK, P. F.

JPD

62/49771

... .., T. T.

Medical Instruments and Apparatus

Let us extend the fight to save penicillins, fuel and electric power., 1952.

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

OSTAPCHUK, T. P.

Drug Trade

Let us extend the fight to save raw materials, materials, fuel and electric power. Ed. prom.
No. 3, 1952.

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

PYATAYEV, M.; OSTAPCHUK, V.

Building hollow walls with adobe blocks. Sel'.stroj. 11 no.10:
17-18 0 '56. (MLRA 9:12)

i. Nachal'nik stroyuchastka no.11 treeta "Dzhakystroy." (for
Pyatayev) 2. Prorab uchastka no.11 treeta "Dzhakystroy" (for
Ostapchuk).
(Walls) (Building, Adobe)

NOVATSKIY, A.A., inzh.; OSTAPCHUK, V.G., inzh.

Using girder jigs in assembling precast reinforced concrete construction elements. Nov. tekhn. i pered. op. v stroi. 20 no.11:7-10
N '58. (MIRA 11:11)
(Precast concrete construction) (Jigs and fixtures)