"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

L 2090-66

ACCESSION NR: AP5025260

3

possible to reduce the multiply reflected beam into one coinciding with the primary beam and to thus obtain a four-fold enhancement in the intensity of the scattered light. Also, the power output of the laser increased slightly. The linearly polarized E vector from the laser was perpendicular to the scattering plane and was directed parallel to one of the edges of the crystal lattice. The quality of the spectrograms obtained using laser excitation was limited only by the degree of the perfection of the crystal. The sound velocities obtained by measuring the shift of the Rayleigh satellites ($\Delta\lambda$) are summarized in Table 1 of the Enclosure together with the sound velocities calculated from data on the elastic constants of the crystals. Orig. art. has: 2 figures and 1 table. [CS]

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

44,55

SUBMITTED: 22Jun65 ENCL: 01 SUB CODE: SS, EC

NO REF SOV: 000 OTHER: 008 ATD PRESS: 4117

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

L 2090-66

ACCESSION NR: AP5025260

ENCLOSURE: 01

Table 1. Satellite displacement Δλ and sound velocity Δv data

Crystal	Longitudinal wave			Transverse wave		
	Δλ, Å	V_{exp} (m/sec)	V_{theor} (m/sec)	Δλ, Å	V_{exp} (m/sec)	V_{theor} (m/sec)
NH_4Cl + Cs	0.228 ±0.001	4650 ±25	4430	0.117 ±0.001	2380 ±25	2110
NaCl	0.204 ±0.002	4450 ±50	4480			
KCl	0.169 ±0.003	3820 ±70	3830			

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

GRABOVSKIY, Mikhail Aleksandrovich, dots.; MLODZEYEVSKIY, Anatoliy Boleslavovich, prof.; TELESNIN, Roman Vladimirovich, prof.; SHASKOL'SKAYA, Marianna Petrovna, dots.; YAKOVLEV, Ivan Alekseyevich, prof.; IVERONOVA, V.I., red.; CHEBOTAREVA, A.V., red.

[Lecture demonstrations in physics] Lektsionnye demonstratsii po fizike. Moskva, Nauka, 1965. 572 p. (MIRA 18:9)

1. Institut stali i splavov, Moskva (for Shaskol'skaya).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

VELICHKINA, T.S.; SHUSTIN, O.A.; YAKOVLEV, I.A.

Fine structure of the spectral lines of light scattered in cubic crystals. Pis'ma v red. Zhur.ekspar. i teor.fiz. 2 no.4:189-192 Ag '65. (MIRA 18:10)

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

KHAYKIN, Semen Emmanuilovich; YAKOVLEV, I.A., prof., retsenzent; BURLYAND, V.A., red.

[Electromagnetic oscillations and waves] Elektromagnitnye kolebaniia i volny. Izd.2., dop. i perer. Moskva, Energiia, 1964. 207 p. (Massovaia radiobiblioteka, no.562 p. (MIRA 19:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

L 34487-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG

ACC NR: AP6014164 SOURCE CODE: UR/0053/66/088/004/0753/0756

55
B

AUTHOR: Velichkina, T. S.; Shustin, O. A.; Yakovlev, I. A.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Gas laser - lecture demonstrations of its operation and use in physical laboratory practice

SOURCE: Uspekhi fizicheskikh nauk, v. 88, no. 4, 1966, 753-756

TOPIC TAGS: gas laser, laser application, education

ABSTRACT: The authors indicate that a simple gas laser can be used as an effective teaching aid and describe several lecture demonstrations that illustrate the operating principle of the laser and its features as a light source. A gas laser is shown to be preferable to a solid-state laser since it demonstrates more clearly the laser principle and is also safer for use in a classroom. Experiments aimed at demonstrating the difference between a laser and an ordinary gas discharge, the polarization of the laser emission, the natural directivity of the laser beam, and its spectral composition are briefly described. A simple interference experiment to prove the narrowness of the laser line width is described. Besides demonstrating the laser operating principle, a gas laser can be used to study the fine structure of spectral lines of light scattered by liquids and crystals (stimulated Mandel'shtam-Brillouin scattering). The end results of such an experiment is calculation of the

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Card 1/2

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L 34437-66

ACC NR: AP6014164

speed of sound in different media at a frequency of ~10^{10} cps from the interference spectrograms obtained with the aid of a gas laser. This particular demonstration is based on a spectral experiment described by the authors earlier (Pis'ma v redaktsiyu ZhETF v. 2(4), 189, 1965). Some technical data on the laser employed are presented. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 002/ OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ACC NR: AP7003531 SOURCE CODE: UR/0386/67/005/001/0006/0009

AUTHOR: Shustin, O. A.; Yakovlev, I. A.; Velichkina, T. S.

ORG: Physics Department, Moscow State University im. M. V. Lomonosov (Fizicheskiy fakul'tet Moskovskogo Gosudarstvennogo Universiteta)

TITLE: Absorption of sound in single-crystal NH_4Cl during its phase transformation

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 1, 1967, 6-9

TOPIC TAGS: ammonium compound, chloride, phase transition, Curie point, sound absorption

ABSTRACT: The authors measured the absorption of longitudinal acoustic waves propagating along the edge of the crystal cubic lattice. The measurements were made at 5 and 15 MHz by a method described earlier (ZhETF v. 32, 935, 1957). Particular attention was paid to the thermal conditions of the experiments. The investigated crystal samples were in acoustic contact with a metallic thermostat-controlled delay line. This entire system was placed in turn in a massive copper thermostat isothermal with the delay line. Similar results were obtained for the absorption coefficient at both frequencies, but at 5 MHz the maximum absorption was one-fourth that for 15 MHz. Reduction of the experimental data yields a relaxation time $\tau = 1 \times 10^{-9}/(\theta - T)$ sec, which agrees in order of magnitude with the value obtained by others. The authors were also able to obtain for the first time the value of $d\theta/dp$ (θ = phase transition

Card 1/2

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ACC NR: AP7003531

temperature, p = pressure) from acoustic measurements, getting a value 9×10^{-9} deg-cm^2/dyne which agrees with the published data. This is regarded as a confirmation of Landau's theory. The authors thank L. A. Shcherbakova and G. K. Chirkin for supplying the NH_4Cl crystals. Orig. art. has: 2 figures and 2 formulas.

SUB CODE: 20/ SUBM DATE: 28Sep66/ ORIG REF: 004/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.B.

Konstruktsiia aviadizelia IUMO-207-A. Pod redaktsiei A.I. Tolstova. Moskva, Oborongiz, 1944. 64 p., illus. (TSIAM. Trudy, no. 64)

Title tr.: Design of the (Junkers) JUMO 207-A aircraft diesel engine.

NCF

So: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, Ivan Dmitriyevich

YAKOVLEV, Ivan Dmitriyevich; GREBTSOV, P., red.; ZUBRILINA, Z.P., tekhn.red.

[The country's second granary] Vtoraia zhitnitsa strany. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 87 p. (MIRA 11:1)
(Kazakhstan--Grain)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. F.

"Studying the Heats of Solution of Salts in Water and the Heat Capacity of Solutions Thus Formed at +2 and -6 Degrees Centigrade." Cand Chem Sci, Leningrad Technological Inst, Chair of Physcial Chemistry, Leningrad, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. F.

MISCHENKO, K.P.; YAKOVLEV, I.F.

Simple calorimetric apparatus for determining the heat capacity of of solutions and the heat of solution at low temperatures. Zhur.prikl. khim. 30 no.3:478-482 Mr '57. (MLRA 10:5)
(Calorimeter) (Heat of solution)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ZUY, V.V.; IVANYUK, S.S.; YAKOVLEV, I.P.

Effect of aminazine on the anesthetic action of certain drugs. (MIRA 12:4)
Vrach. delo no.1:97 '59.

1. Kafedra farmakologii (zav. - dots. N.P. Skakun) Ternopol'skogo instituta.

(CHLORPROMAZINE)
(ANESTHESIA)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

5(4)

AUTHORS: Mishchenko, K. P., Yakovlev, I. F. SOV/79-29-6-1/72

TITLE: Thermochemistry of Electrolyte Solutions (Termokhimiya rastvorov elektrolitov). V. Integral Heats of Solution of NaCl and $MgCl_2 \cdot 6H_2O$ in Water at +2 and -6° (V. Integral'nyye teploty rastvoreniya NaCl i $MgCl_2 \cdot 6H_2O$ v vode pri temperaturakh +2 i -6°)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 1761-1771 (USSR)

ABSTRACT: The thermochemical investigations of aqueous solutions of electrolytes in a large number of different concentrations and temperatures is of considerable interest, both with respect to the evolution of the theory of the solutions and for some industrial fields. The polytherms to be obtained of the integral heats of solution, the heat capacities and partial products (molar ratio) of these values make it possible, in connection with other constants, to characterize more thoroughly the nature of the electrolyte solutions and to clarify especially the part the solvent plays in the formation of the solution. In aqueous solutions this part

Card 1/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

Thermochemistry of Electrolyte Solutions. SOV/79-29-6-1/72
V. Integral Heats of Solution of NaCl and $MgCl_2 \cdot 6H_2O$ in Water at +2 and -6°

had to become particularly evident at temperatures above and below 0°, since in this case the thermal motion less interferes with the primary water structure. Thus the interactions between the ions and the solvent are becoming manifest in a considerably pronounced way under these conditions. The integral heats of solution of NaCl, $MgCl_2 \cdot 6H_2O$, and $MgCl_2$ were determined at +2 and -6° in a wide concentration range. The corresponding partial enthalpies of water and electrolyte were calculated in the molar ratio under equal conditions. The comparison of the dependences of these properties on concentration and temperature with the data available in publications permitted some conclusions concerning the structure of the concentrated solutions and their change at different temperatures. There are 4 figures, 5 tables, and 16 references, 11 of which are Soviet.

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

SOV/79-29-6-1/72

Thermochemistry of Electrolyte Solutions.
V. Integral Heats of Solution of NaCl and $MgCl_2 \cdot 6H_2O$ in Water at +2 and -6°

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad, Technological Institute imeni Lensovet)

SUBMITTED: June 9, 1958

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. G. and CHEBOTAREVICH N. D.

"On the Prevalence of Ornithodoros Mites in Stavropol' Kray."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

(Stavropol')

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. I.

YAKOVLEV, I. I. Chief Veterinary Inspector, Main Veterinary Administration, Commissariat for Sovkhozes, USSR). On differential diagnosis of infectious anemia and Leptospirosis of horses.

So: Veterinariya; 23; 2-3; February/March 1946; Uncl.
TABCON

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

Determining the heat consumption and temperature of heat carriers in heating inserted parts of dam- and lock flood-gates using hot oil. Nauch.dokl.vys.shkoly; stroi. no.2: 243-249 '59. (MIRA 13:4)

1. Rekomendovana kafedroy teplosnabzheniya i ventilyatsii Leningradskogo inzhenerno-stroitel'nogo instituta.
(Sluice gates)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. I.

YAKOVLEV, I. I.: "Investigation of the thermal aspects of heating certain basic parts of hydraulic structures through working with electrical models". Leningrad, 1955. Min Higher Education USSR. Leningrad Order of Labor Red Banner Construction Engineering Inst, Chair of Physics. (Dissertations for the Degree of Technical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A. V.; KURNAKOVA, A. G.; YAKOVLEV, I. I.

Study of extraction processes by means of physicochemical analysis. Zhur. neorg. khim. 5 no.8:1832-1839 Ag '60. (MIRA 13:9)
(Extraction (Chemistry))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.; VAYSMAN, L.E.

Course of labor in women with vascular diseases of the hypotensive type. Akush. i gin. 38 no.5:52-60 S-O '62.

(MIRA 17:11)

1. Iz akushersko-ginekologicheskoy kafedry (zav. - zasluzhennyy deyatel' nauki RSFSR prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni Pavlova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

S/020/62/145/005/013/020
B106/B144

AUTHORS: Nikolayev, A. V., Corresponding Member AS USSR, and Yakovlev, I. I.

TITLE: Study of the system uranyl nitrate - water - nitric acid - tributyl phosphate in the demixing region

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 5, 1962, 1064-1067

TEXT: The equilibrium tetrahedron in the demixing region of the system $UO_2(NO_3)_2$ - HNO_3 - tributyl phosphate (TBP) - H_2O was constructed by potentiometric titration of the aqueous and organic phases using NaOH at 22 ± 1% to discover the general rules governing the extraction equilibria (Fig. 1). There are 1 figure and 1 table.

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry of the Siberian Department of the Academy of Sciences USSR)

SUBMITTED: April 14, 1962

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A.V.; DYADIN, Yu.A.; YAKOVLEV, I.I.; MIRONOVA, Z.N.

Quinary system $UO_2(NO_3)_2$ - $(C_4H_9)_2$ $PO(C_4H_9O)$ - H_2O - HNO_3 - CCl_4 at a constant relation of $(C_4H_9)_2PO(C_4H_9O)$ to CCl_4 in the demixing area. Dokl. AN SSSR 153 no.1:118-121 N '63. (MIRA 17:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. 2. Chlen-korrespondent AN SSSR (for Nikolayev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.; OPALOVSKAYA, R.I.

Study of distribution in systems consisting of nitric acid - water - tributylphosphate - salting-out agents. Izv. Sib. otd. AN SSSR no.12:62-68 '62. (MIRA 17:8)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

KHEYKER, D.M.; FEYGIN, L.A.; YAKOVLEV, I.I.

Small-angle X-ray diffractometer with asymmetrical focusing monochrometer. Kristallografiia 10 no.3:447-449 My-Je '65. (MIRA 18:7)

1. Institut kristallografii AN SSSR i Nauchno-issledovatel'skiy institut asbesta, slyudy, asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva predpriyatiy slyudyanoy promyshlennosti.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

LEBEDEVA, L.I.; YAKOVLEV, I.I.

Significance of electrophysiological parameters in the evaluation of the formation of labor dominant and the use of trigger stimulation in the study of the pathogenesis of atonic labor. Akush. i gin. 40 no.3:3-10 My-Je '64. (MIRA 18:6)

1. Kafedra akusherstva i gi kologii (zav. - prof. I.I.Yakovlev) I Leningradskogo meditsinskogo instituta imeni akademika Pavlova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

IARCVLEV, I. I.

Emergency in obstetrical pathology Moskva, Gos. izd-vo med. lit-ry, 1950. 358 p.

DAFM

1. Obstetrics - Surgery

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

Electric activity of the cerebral cortex and uterus in pregnancy and labor. Akush. gin., Moskva no.5:30-39 Sept-Oct 1951. (CIML 21:2)

1. Professor. 2. Of Sverdlovsk State Medical Institute (Director -- Docent V. S. Serebrennikov) and of Sverdlovsk Scientific-Research Institute for the Care of Mothers and Children (Director -- Prof. I. I. Yakovlev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. I., Prof.

Fistula

Genitourinary and genitiontestinal fistulas and their therapy. Akush. i gin., No. 3, 1952.

Monthly List of Russian Accessions Library of Congress October 1952 UNCLASSIFIED.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.;LISOVSKAYA, G.M.;SHMINKE, G.A.

Electrical activity of the cerebral cortex and of the uterus in labor as an objective index of the efficacy of painless labor. Akush. gin., Moskva no.5:37-45 Sept-Oct 1952. (CLML 23:2)

1. Professor for Yakovlev. 2. Of the Department of Obstetrics and Gynecology (Head -- Prof. I. I. Yakovlev (Sverdlovsk Medical Institute (Director -- Prof. A. F. Zverev) and of the Biophysical Laboratory, Sverdlovsk Scientific-Research Institute for the Care of Mother and Child (Director -- R. A. Malysheva).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

Basic principles of the function of the "parturient" uterus. Akush. i gin. 39 no.5:3-8 S-O '63. (MIRA 17:8)

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy deyatel' nauki prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni Pavlova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.; NIKOL'SKIY, N.M., personal'nyy pensioner; SIKORSKIY, A.N.

History of veterinary medicine. Veterinariia 40 no.11: 80-87 N '63. (MIRA 17:9)

1. Chlen Kommunisticheskoy partii Sovetskogo Soyuza (for Nikol'skiy).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

[First aid in obstetrical pathology; selected chapters of clinical obstetrics with an exposition of methodology in obstetrical research and of main operations and aids; physicians manual] Neotlozhnaia pomoshch' pri akusherskoi patologii; izbrannye glavy klinicheskogo akusherstva s izlozheniem metodiki akusherskogo issledovaniia i osnovnykh akusherskikh operatsii i posobii; rukovodstvo dlia vrachei. Moskva, Medgiz, 1953. 385 p. (MLRA 7:3)

(Pathology) (Obstetrics)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NOVIKOVA, E.V., dotsent; YAKOVLEV, I.I., professor, zaveduyushchiy.

Cytodiagnosis of cancer of the corpus and cervix uteri and of neoplasms of the ovaries. Akush.i gin. no.2:40-42 Mr-Ap '53. (MLRA 6:5)

1. Kafedra akushserstva i ginekologii Sverdlovskogo meditsinskogo instituta i Sverdlovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i mladenchestva. (Uterus--Tumors) (Ovaries--Tumors)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

RODIONOVA, Ye.N.; YAKOVLEV, I.I., professor, nauchnyy rukovoditel'.

Application of cutaneo-cranial forceps by the Ivanov method in various types of obstetric complications. Akush. i gin. no.3:37-40 My-Je '53. (MLRA 6:7)

1. Sverdlovskiy nauchno-issledovatel'skiy institut okhrany materinstva i mladenchestva. (Labor (Obstetrics))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

KALINOVA, Z.I.; YAKOVLEV, I.I., professor, zaveduyushchiy; ZVEREV, A.F., professor, direktor; MALYSHEVA, R.A., direktor.

TSov'ianov method of conducting labor in breech presentations. Akush.i gin. no.4:37-41 Jl-Ag '53. (MLRA 6:9)

1. Akushersko-ginekologicheskaya kafedra Sverdlovskogo meditsinskogo instituta (for Yakovlev). 2. Sverdlovskiy nauchno-issledovatel'skiy institut okhrany materinstva i detstva (for Malysheva). 3. Sverdlovskiy meditsinskiy institut (for Zverev). (Labor (Obstetrics))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.; LISOVSKAYA, G.M.; SHMINKE, G.A.

Electrical activity of the cerebral cortex in the psychoprophylactic method of painless labor. Akush.i gin. no.1:3-8 Ja-F '54. (MLRA 7:6)

1. Iz akushersko-ginekologicheskoy kafedry Sverdlovskogo meditsinskogo instituta i Sverdlovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i mladenchestva (Nauchnyy rukovoditel' i zaveduyushchiy kafedroy - professor I.I.Yakovlev).
(Electroencephalography) (Childbirth--Psychology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I., professor.

Clinical and physiological evaluation of the functional characteristics of the uterus in pregnancy and labor. Sov. med. 19 no.9:12-20 S '55. (MLRA 8:12)

1. Iz akushersko-ginekologicheskoy kafedry (zav.-prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni akad. I.P.Pavlova (dir.-dotsent A.I.Ivanov)

(UTERUS, physiology
in pregn. & labor, clin.aspects)
(PREGNANCY, physiology
uterine funct.,clin.aspects)
(LABOR, physiology
uterine funct.,clin.aspects)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. I.

USSR/Human and Animal Physiology (Normal and Pathological). T
Nerve and Muscle Physiology.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79923.

Author : Yakovlev, I.I.
Inst :
Title : Objective Evaluation of the Functional Condition of a Uterus During Pregnancy.

Orig Pub: Akusherstvo i ginekologiya, 1957, V.33 No1: 8-18.

Abstract: The contraction of muscle (CM) of the uterus in the first 20 weeks of pregnancy was very rare (one contraction an hour) and weak. In the following 18 weeks, CM became stronger and longer. In the 39th-40th week, they attained an even more regular character, became strong and long. The tonus tension of the uterus (stage of rhythmic

Card : 1/2

from Obstetrical-Gynecol. Chair, 1st. Leningrad Med. Inst im Pavlov

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

USSR/Human andAnimal Physiology (Normal and Pathological). T
Nerve and Muscle Physiology.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79923.

activity) grew simultaneously and progressively. In 10-12 minutes after the receipt of caffeine, the rate, strength, and duration of contractions decreased sharply, although the rhythm remained as before. On the basis of studies where bromide was used, the retardation of the functions developed still more sharply; the strength and duration of separate CM decreased almost 2½ times in comparison with the original rate, and the rate did not change. The combined use of caffeine and a bromide impaired the rhythm and decreased the intensity of CM.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I., prof.

"Obstetrics seminar" by L.S. Persianinov. Reviewed by I.I. IAkovlev.
Akush. i gin. 34 no.5:122-123 S-O '58 (MIRA 11:10)
(OBSTETRICS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

BULAVINTSEVA, A.I., kand. med. nauk; KAZANSKAYA, N.I., kand.med. nauk; KASHINSKIY, A.V., kand. med. nauk; LIPMANOVICH, S.G., kand. med. nauk; NARBUT, Ye.I., kand. med. nauk; POKROVSKIY, V.A., zasluzhennyy deyatel' nauki RSFSR, prof.; ROMANOVSKIY, R.M., kand. med. nauk; TUMANOVA, Ye.S., prof.; YAKOVLEV, I.I., zasluzhennyy deyatel' nauki RSFSR, prof.; LANKOVITS, A.V., prof., nauchnyy red.; PERSIANINOV, L.S., prof., otv. red.; BEKKER, S.M., prof., red.; BELOSHAPKO, P.A., prof., red. [deceased]; ZHMAKIN, K.N., prof., red.; ZHORDANIA, I.F., prof., red.; LEBEDEV, A.A., prof., red.; MANENKOV, P.V., prof., red.; STEPANOV, L.G., kand. med. nauk, red.; SYROVATKO, F.A., prof., red.; FIGURNOV, K.M., prof., red.; PORAY-KOSHITS, K.V., red.; LANKOVITS, A.V., red.; SENCHILO, K.K., tekhn. red.

[Multivolume manual on obstetrics and gynecology] Mnogotomnoe rukovodstvo po akusherstvu i ginekologii. Moskva, Gos.izd-vo med. lit-ry. Vol.6. 1961. 679 p. (MIRA 15:4)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Persianinov, Beloshapko, Figurnov).
(OBSTETRICS--SURGERY) (GYNECOLOGY, OPERATIVE)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

Substantiation of the procedure of conducting delivery and the recommended therapeutic measures for women with labor anomalies. Sbor.nauch. trud. Kaf.akush.i gin. 1 IMI no.2:68-95'61 (MIRA 16:7)

(LABOR, COMPLICATED)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ANDROSOVA, Ye.N.; RYABTSEVA, I.T.; YAKOVLEV, I.I.

Bioelectric activity of the cerebral cortex in pregnant women with a pelvic presentation of the fetus. Sbor.nauch.trud.Kaf. akush. i gin. 1 IMI no.2:155-158'61. (MIRA 16:7)
(ELECTROENCEPHALOGRAPHY) (FETUS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.; CHAYKOVSKAYA, A.L.; PERMSKAYA, V.A.; TITKOVA, V.S.; DROZDOVA, Z.A.

Characteristics of vascular reactions and contractions of the uterus in pregnant women prior to labor as a result of the use of caffeine and bromine; according to data of clinical and physiological examinations. Sbor.nauch.trud.Kaf.akush. i gin. 1 IMI no.2:174-181'61. (MIRA 16:7)
(UTERUS,PREGNANT) (CAFFEINE--PHYSIOLOGICAL EFFECT)
(BROMINE--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.; CHAYKOVSKAYA, A.L.; TITKOVA, V.S.

Pregnancy and labor in a woman who had undergone surgery for the removal of an astrocytoma from the right hemisphere of the cerebellum. Sbor. nauch.trud.Kaf.akush. i gin. 1 LMI no.2: 182-189'61. (MIRA 16:7)

(PREGNANCY) (LABOR (OBSTETRICS)) (BRAIN—SURGERY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

LEBEDEVA, L.I.; ORLOV, R.S.; YAKOVLEV, I.I.

Uterine contractions and blood acetylcholine during labor in women with arterial hypotensive types of vascular diseases. Akush.i gin. no.4:33-38 '61. (MIRA 15:5)

1. Iz laboratorii interotseptivnykh uslovnykh refleksov (zav. - prof. E.Sh. Ayrapetyants) Instituta fiziologii imeni I.P. Pavlova AN SSSR (dir. - akad. V.N. Chernigovskiy), kafedry fiziologii (zav. - chlen-korrespondent AMN SSSR prof. A.V. Kibyakov) i kafedry akusherstva i ginekologii (zav. - zasluzhennyy deyatel' nauki prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni akad. I.P. Pavlova.
(CHOLINE) (HYPOTENSION) (LABOR (OBSTETRICS))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

Nature of anomalies in labor stresses and the recommended obstetric measures. Akush.i gin. no.5:3-14 '61. (MIRA 15:1)

1. Iz akusherско-ginekologicheskoy kafedry (zav. - zasluzhennyy deyatel' nauki, doktor med.nauk prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni akad. I.P. Pavlova.
(LABOR, COMPLICATED)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I., zasl. deyatel' nauki, prof., red.; STAROVOYTOV, I.M., prof., red.; GUTKOVSKAYA, O., red.; STEPANOVA, N., tekhn. red.

[Practical handbook of gynecology] Prakticheskoe posobie po ginekologii. Minsk, Glavizdat M-va kul'tury BSSR, 1963. 407 p. (MIRA 16:7)

(GYNECOLOGY—HANDBOOKS, MANUALS, ETC.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

LEBEDEVA, L.I.; YAKOVLEV, I.I.

Contractile activity of the uterus in women during labor with a flat amnion. Akush. i gin. no.1:72-76 '63. (MIRA 17:6)

1. Iz laboratorii interotseptivnykh uslovnykh refleksov (zav.- prof. E.Sh. Ayrapet'yants) Instituta fiziologii imeni I.P. Pavlova (dir.- akademik V.N. Chernigovskiy) AN SSSR i kafedry akusherstva i ginekologii (zav. - zasluzhennyy deyatel' nauki prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni Pavlova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ACCESSION NR: AP4041156 S/0020/64/156/004/0888/0890

AUTHOR: Nikolayev, A. V.; Ivanov, I. M./ Yakovlev, I. I.

TITLE: Phase equilibria in the UO sub 2 SO sub 4 - H sub 2 O - BEDPA and H sub 2 SO sub 4 - H sub 2 O - BEDPA systems

SOURCE: AN SSSR. Doklady*, v. 156, no. 4, 1964, 888-890

TOPIC TAGS: uranyl sulfate, extraction, dibutylphosphinic acid butyl etherate, phase diagram, solubility, uranyl sulfate containing system

ABSTRACT: Phase diagrams were constructed for the uranyl sulfate - water - butyl ester of dibutylphosphinic acid (BEDPA - $C_4H_9OPO(C_4H_9)_2$) and sulfuric acid - water BEDPA systems which constitute the quaternary extraction system for uranium VI salts (figs. 1 and 2). The extraction can be effected only in the narrow area A. The disolvate UO_2SO_4.2BEDPA is very stable in water; only in excess water will it break up into 2 liquid phases - an aqueous phase containing 1.88% uranyl sulfate and an organic phase with 10.2% UO_2SO_4, 16.6% H_2O and 73.2% BEDPA. BEDPA is completely miscible with H_2SO_4 starting with approximately 88% acid. The binodal of the ternary system (fig. 2) is characteristic of organic systems having no chemical

Card 1/4

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ACCESSION NR: AP4041156

reaction. Orig. art. has: 3 tables and 2 figures.

ASSOCIATION: Institut neorganicheskoy khimii, Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Department Academy of Sciences SSSR)

SUBMITTED: 02Mar64 ENCL: 02

SUB CODE: GC NO REF SOV: 007 OTHER: 006

Card 2/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ACCESSION NR: AP4041156 ENCLOSURE: 01

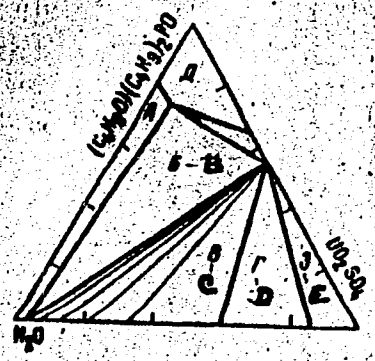

Fig. 1. Solubility diagram of the UO_2SO_4 - H_2O - $C_4H_9OPO(C_4H_9)_2$ system at 25C.
A - area of separation of the aqueous and organic solutions of uranyl sulfate;
B - nonvariant area: solid disolvate, organic phase aqueous solution
C - area of equilibrium of disolvate with aqueous phase;
D - area of equilibrium of solid disolvate, trihydrate and saturated aqueous solution; E - area of coexistence of solid disolvate & saturated organic phase

Card 3/4

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

ACCESSION NR: AP4041156 ENCLOSURE: 02

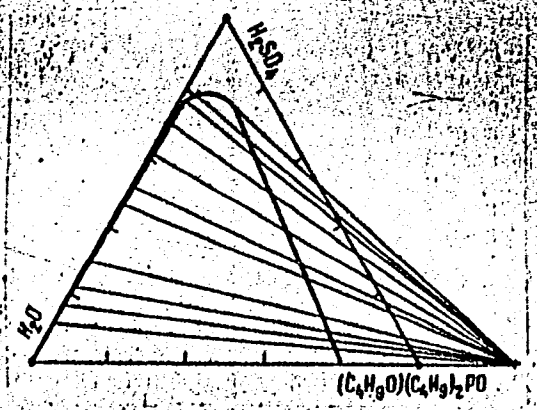

Fig. 2. Solubility diagram of the H_2SO_4 - H_2O - $C_4H_9OPO(C_4H_9)_2$ system at 25C.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A.V.; DYADIN, Yu.A.; YAKOVLEV, I.I.

Solubility of water and uranyl nitrate in tributyl phosphate within the 0 - 100°C range. Dokl. AN SSSR 158 no.5:1130-1132 O '64. (MIRA 17:10)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. 2. Chlen-korrespondent AN SSSR (for Nikolayev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

KIRGINTSEV, A.N.; YAKOVLEV, I.I.

Extraction equation for ternary aqueous salt solutions. Dokl. AN SSSR 159 no.4:887-889 D '64 (MIRA 18:1)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom V.I. Spitsynym.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A.V.; DYADIN, Yu.A.; YAKOVLEV, I.I.; DURASOV, V.B.; MIRONOVA, Z.N.

Polytherms of mutual solubility in the systems water - organophosphorus extraction agents. Report 1. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:27-31 '65. (MIRA 18:8)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.I.

Structure and physiology of the smooth muscle of the pregnant uterus. Akush. i gin. no.2:3-9 '65. (MIRA 18:10)

1. Akushersko-ginekologicheskaya kafedra (zav. - prof. I.I.Yakovlev) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A.V.; DYADIN, Yu.A.; YAKOVLEV, I.I.

Mutual solubility in the system water - nitric acid - $(C_4H_3O)PO(C_4H_9)_2$ at 25°. Dokl. AN SSSR 160 no.2:363-365 Ja '65.

(MIRA 18:2)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
2. Chlen-korrespondent AN SSSR (for Nikolayev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A.V.; DYADIN, Yu.A.; YAKOVLEV, I.I.

Solubility polytherm in the ternary system HNO_3 - H_2O - $(C_4H_3O)PO(C_4H_9)_2$. Dokl. AN SSSR 160 no.4:841-844 F '65.

(MIRA 18:2)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
2. Chlen-korrespondent AN SSSR (for Nikolayev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

NIKOLAYEV, A.V.; DYADIN, Yu.A.; YAKOVLEV, I.I.; DURASOV, V.B.; MIRONOVA, Z.N.

Study of the polytherm of mutual solubility in the system water - organophosphorus extractant. Report No.2. Izv. SO AN SSSR no.7 Ser. khim. nauk no.2:28-32 '65.

(MIRA 18:12)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk. 2. Chlen-korrespondent Sibirskogo otdeleniya AN SSSR. (for Nikolayev). Submitted June 24, 1964.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. K.

Tractors

Timely and proper repair of machinery. Les. khoz. 4 no. 12, 1951

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

PETROVSKIY, Georgiy Semenovich, polkovnik; TARATORIN, Nikolay Nikolayevich, polkovnik; YAKOVLEV, I.K., general-mayor tankovykh voysk, red.; KONKIN, P.I., polkovnik, red.; MURASHOVA, L.A., tekhn. red.

[Examples of methodology for tactical training of tank crews and platoons] Sbornik primerov po metodike takticheskoi podgotovki tankovogo ekipazha i vzvoda. Pod red. I.K. IAkovleva. Moskva, Voenizdat, 1963. 154 p.

(MIRA 16:7)

(Tank warfare)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

UNKSOV, V.A.; BOROVIKOV, P.P.; RUNDKVIST, D.V.; PAVLOVA, I.G.; ALYAVDIN, V.F.; VOLOSTNYKH, G.T.; ROZINOV, M.I.; SHCHEGLOV, A.D.; IVANOVA, A.A.; KORMILITSYN, V.S.; SHCHEGLOV, A.D.; ARTEMOV, V.R.; RYTSK, Yu.Ye.; GINZBURG, A.I.; DORTMAN, N.B.; TOPORETS, S.A.; TRUNINA, V.Ya.; YAKOVLEV, I.K.; BOGDANOVA, L.A.; SARBEYEVA, L.M.

Problems of the geology and characteristics of the distribution of mineral deposits. [Trudy] VSEGEI 92:53-89 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.K.

Distribution of coals at different degrees of metamorphism in the western margin of the Tunguska Basin. Sov.geol. 6 no.12:58-67 D '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, L.K.

Interaction of the system $K_2O - Al_2O_3 - SiO_2$ on heating. Report No.1: Reaction between potassium disilicate and aluminum oxide. Izv. SO AN SSSR no.7 Ser. khim. nauk no.2:74-81 '64 (MIRA 18:1)

1. Khimiko metallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.L.; IGUMNOV, Ya.V.; ABRAMOV, A.A.

Centralized transportation and shipment operations. Tekst.prom. 16 no.2:54-55 F '56. (MLRA 9:5)

1. Starshiy inzhener Glavlenkhlopproma (for Yakovlev); 2. Nachal'nik transportno-ekspeditsionnoy bazy (for Igumnov); 3. Nachal'nik otdela ekspeditsii bazy (for Abramov).
(Shipment of goods)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

SOV/137-59-1-814

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 110 (USSR)

AUTHORS: Kunitsyn, N. M., Shamovskiy, E. Kh., Yakovlev, I. M., Soroko, L. N.

TITLE: The Design of a Wide-path Cutting Blowpipe for Flame Cleaning of Metal (Proyektirovaniye shirokozakhvatnogo rezaka dlya ognevoy zachistki metalla)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy, Chernaya metallurgiya, 1958, Nr 3, pp 154-160

ABSTRACT: The authors describe the design of a slot-type head for a coke-oxygen operated cutting blowpipe for surface flame planing capable of producing a groove 100-150 mm wide. The ratio of the groove width to the width of the exit slot on the head amounts to 2-3. At a groove depth of 4-5 mm, the rate of cutting amounts to 6 m/min. The rate of cutting metal preheated to a temperature of 900-100°C [sic!] increases to 20-21 m/min, the heating time being reduced from 8-12 to 2-4 seconds. The stability of cut and the cross section of the groove are functions of the geometry of the nozzle and of the nature and the dimensions of the hot spot. The shape of cone-and-slot type nozzles is most efficient in preventing bifurcation of the groove.

Card 1/2

Siberian Metallurgical Inst. & Kuznetsk Metallurgical Combine

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

SOV/137-59-1-814

The Design of a Wide-path Cutting Blowpipe for Flame Cleaning of Metal

Smooth transition from the throat to the slot of the blowpipe is an essential consideration in the design of the nozzle.

G. K.

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

SOV/137-59-1-1556

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 207 (USSR)

AUTHORS: Shamovskiy, E.Kh., Yakovlev, I. M., Kaftanova, Z. K.

TITLE: Elimination of Spatter Flaws Introduced During Flame Scarfing of Metal (Udaleniye zapleskov pri ognevoy zachistke metalla)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chern. metallurgiya, 1958, Nr 4, pp 117-125

ABSTRACT: During flame scarfing operations, performed for the purpose of removing surface defects of metal, spatter was observed to occur along the edges of the groove; as a result, defects appeared on the surface of low-carbon steels during their subsequent rolling into sheets. It was established that the formation of spatter defects is attributable to molten metal being blown out of the groove by the oxygen jet. This condition may be eliminated by means of employing additional O_2 for purposes of preheating the metal, or by utilizing smaller openings for the jet of cutting O_2.

S. G.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

SHAMOVSKIY, E.Kh.; YAKOVLEV, I.M.

Wide-range coke-oxygen cutter for flame machining and scarfing of cold carbon metal. Izv. vys. ucheb. zav.; chern. met. 4 no.10:165-169 '61. (MIRA 14:11)

1. Sibirskiy metallurgicheskiy institut.
(Metal cleaning) (Gas welding and cutting)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

KOROLEV, Aleksandr Nikiforovich; POPOV, Aleksandr Ivanovich; SIZOV, K.P., inzh., retsenzent; YAKOVLEV, I.N., inzh., retsenzent; SARANTSEV, Yu.S., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Economics, organization, and planning of railroad car operation]Ekonomika, organizatsiia i planirovanie vagonnogo khoziaistva. Moskva, Transzheldorizdat, 1962. 290 p. (MIRA 15:12)

(Railroads—Rolling stock)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

GUSEV, Sergey Osipovich; YAKOVLEV, Il'ya Nikiforovich; ABRAMOV, Vasiliy Alekseyevich; BRAYLOVSKIY, N.G., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Isothermal cars] Izotermicheskie vagony. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 247 p. (MIRA 14:1)

(Refrigerator cars)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. N.

KAMENSKIY, I.Z.; YAKOVLEV, I.N.; DOBRUSINA, R.Ye.

Rodenticide. Patent U.S.S.R. 77,586, Dec. 31, 1949.
(CA 47 no.19:10172 '53)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. N.

20108 YAKOVLEV, I. N. Materialy dlya sanitarno - prosvetitil'noy raboty po bor'be s kishchechnymi infektsiyami. Fel'dsher i akusherka, 1949, No. 6, s. 43-47.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.N.

Observation of the partial solar eclipse on June 30, 1954. Fiz. v shkole 15 no.1:61-63 Ja-F '55. (MLRA 8:2)

1. 2-ya srednyaya shkola, g. Starokonstantinov, Khmel'nitskoy obl.
(Eclipses, Solar --1954)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.N. (Kiyev)

Method of studying the Joule law. Fiz. v shkole 20 no.2:49-52 Mr-Ap '60. (MIRA 14:5)

(Physics—Study and teaching)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.N. (Kiyev)

Gas-discharge counter for ionizing particles. Fiz. v shkole 21 no.1:56-59 Ja-F '61. (MIRA 14:9)
(Ionization chambers)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

CA

10

Unsaturated cyclic hydrocarbons and their derivatives. VIII. Synthesis of 1-cyclobutene-1-carboxylic acid and some of its derivatives. N. A. Domnin and I. P. Yakovlev (Leningrad State Univ.). *J. Gen. Chem.* (U.S.S.R.) 17, 1899-903(1947)(in Russian); cf. *C.A.* 41, 5801a. After numerous trials the following procedure was evolved for the prepn. of *1-cyclobutene-1-carboxylic acid* (I): 400 g. powd. KOH under 200 cc. dry MePh was treated with 300 g. 1-bromocyclobutanecarboxylic acid in 300 cc. MePh, heated on a steam bath 0.5 hr., cooled, dild. with water, acidified with H_2SO_4, and the aq. layer extd. with Et_2O. On standing, the org. solns. gave a polymer of I as an amorphous ppt. Careful removal of the solvents gave 20-5% I, m. 72° (from benzene). On standing in air or in soln. it yields an amorphous polymer. Addn. of Br to I in moist $CHCl_3$ gave *1,2-dibromocyclobutanecarboxylic acid*, m. 95°, b_3 130°. The latter in MePh added to a boiling suspension of powd. KOH in PhMe gave a polymeric, Br-contg. product, apparently a *polymer of 2-bromo-1-cyclobutene-1-carboxylic acid*; in some expts. it was possible to isolate a little *1-hydroxy-2-bromocyclobutanecarboxylic acid*, m. 120-1° (from benzene); if the reaction is run at 170-225° in high-boiling kerosene, the product is a Br-free resin and some C_4H_6 is evolved. From 15 g. of the di-Br acid boiled with 60 g. powd. KOH in 100 cc. BuOH was obtained 9 g. *1,2-dibutoxycyclobutanecarboxylic acid*, b_3 150°, d_4^{15} 0.9685, d_4^{20} 0.9633, n_D^{15} 1.43914. If the reaction was run in Et_2O, only polymers were obtained. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. P.

Chem Abs
v. 48 25 Jan 54
Organic Chem.

3 (3)

α-Cyclobutyl-α-methylbenzyl alcohol. T. A. Favorskaya and I. P. Yakovlev. *Akad. Nauk S.S.S.R., Inst. Org. Khim., Sintezy Org. Soedinenii, Sbornik* 2, 113-14(1952).—To MeMgBr, from 9.2 g. Mg and 40 g. MeBr, in 200 ml. Et_2O is added 60 g. phenyl cyclobutyl ketone in 100 ml. Et_2O; after stirring 2-3 hrs. at room temp. the mixt. is treated with ice, the org. layer is sepd. and the aq. layer is acidified with 1:4 HCl and extd. with Et_2O. The combined org. layers, after drying over Na_2SO_4, yield 90% *α-cyclobutyl-α-methylbenzyl alc.*, b_1 100.5-4°, n^{20}_D 1.5358, d_{20} 1.0310. Similarly are obtained: 93.5% *α-cyclobutyl-α-ethylbenzyl alc.*, b_{10} 127-8°, n^{20}_D 1.5302, d_{20} 1.0085, and *α-cyclobutyl-α-isopropylbenzyl alc.*, 80%, b_{11} 131-3°, n^{20}_D 1.5325, d_{20} 1.0129.

G. M. Kosolapoff

NA

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.P.

Chem Abs V48
1-25-54
Organic Chemistry

3
(3) Chem

Methyl cyclobutyl ketone. T. A. Favorskaya and I. P. Yakovlev. *Izvest. Akad. Nauk S.S.S.R., Inst. Org. Khim., Sintezy Org. Soedinenii, Sbornik* 2, 115-16(1952).—To 60 g. CrO_3 is added 36.5 ml. 25% NH_4OH and made up with H_2O to 300 ml. This soln. is added to 110 g. $Mn(NO_3)_2$ in 300 ml. H_2O, followed by 36.5 ml. 25% NH_4OH. The brown soln. is filtered and the ppt., after washing with H_2O is dried at 110°, then decompd. in a porcelain dish by heating with stirring (exothermic). The catalyst in the form of a powder (40 g.) is deposited on glass wool and is placed into a tube, through which a mixt. of 1 part Et cyclobutanecarboxylate with 3 parts EtOAc is passed at 10-12 ml. per hr. at 440°. Distn. of the product yields 63% *methyl cyclobutyl ketone*, b_{754} 137-9°, b_{11} 36°, n_D^{20} 1.4339, d_{10} 0.9093. The catalyzate contains some dicyclobutyl ketone, while EtOAc yields some 40% Me_2CO. G. M. Kosolapoff

MK 23-54

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

USSR/Chemistry - Hydrocarbons Jan 52

"Research in the Field of Tertiary Alcohols With the Cyclobutyl Radical. I. Interaction of Diisopropylcyclobutylcarbinol With Hydrochloric and Sulfuric Acids," T. A. Favorskaya, I. P. Yakovlev, Lab imeni A. Ye. Favorskiy, Leningrad State U

"Zhur Obshch Khim" Vol XXII, No 1, pp 113-122

Prepd and characterized for the 1st time: diisopropylcyclobutylcarbinol (I), 1,1-diisopropylcyclopentanol-2 (II), diisopropylmethylenecyclobutane (III), 1,1-diisopropylcyclopentene-2 (IV), 1,2-diisopropyl-2-chlorocyclopentane (V), 1,2-diisopropyl-methylenecyclopentane (VI). Interaction of

207T23

USSR/Chemistry - Hydrocarbons (Contd) Jan 52

I with H_2SO_4 goes in 2 directions: dehydration but no isomerization; and formation of isomeric alc II. Interaction of I with HCl goes in 3 directions, yielding II, III, and V. II is dehydrated under action of H_2SO_4, is also dehydrated under action of HCl to yield IV and 2 5-membered cyclic chlorides, one of which seems to be secondary reaction product. Established isomerization of one cycle into another in organo-Mg synthesis, by which method I is formed at same time as II. Formation of isomeric alc results from isomerization of organo-Mg complex.

207T23

YAKOVLEV, I. P.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. P.

"Investigations in the Field of Tertiary Alcohols with Cyclobutyl Radicals. II. The Interaction of Methylphenylcyclobutylcarbinol with Hydrochloric and Sulphuric Acids." by T. A. Favorskaya and I. P. Yakovlev (p. 122)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii), 1952, Volume 22, no. 1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

USSR/Chemistry - Hydrocarbons Feb 52

"Research in the Field of Tertiary Alcohols With the Cyclobutyl Radical. III. Interaction of Ethylphenylcyclobutylcarbinol With Hydrochloric and Sulfuric Acids," T. A. Favorskaya, I. P. Yakovlev, Lab imeni Acad A. Ye. Favorskiy, Leningrad Order of Lenin State U imeni A. A. Zhdanov

"Zhur Obshch Khim" Vol XXII, No 2, pp 215-220

Prepd for the 1st time ethylphenylcyclobutylcarbinol and products of its dehydration and isomerization under action of H_2SO_4 and HCl (ethylphenylmethylenecyclobutane, 1-methyl-2-phenyl-2-cyclobutylethylene, and 1-chloro-1-ethyl-2-phenylcyclopentane).

209T16

USSR/Chemistry - Hydrocarbons (Contd) Feb 52

Cites mean arithmetic values for relative dispersion ∞ FCD of some alcs with cyclobutyl radical and their dehydration, substitution, and isomerization products.

209T16

YAKOVLEV, I. P.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

FAVORSKAYA, T.A.; YAKOVLEV, I.P.

Tertiary alcohols with a cyclobutyl radical. IV. Reaction of isopropylphenylcyclobutylcarbinol with hydrochloric and sulfuric acids. Zhur. Obshchey Khim.22, 1816-21 '52. (MLRA 5:11)
(CA 47 no.14:6876 '53)

1. A. Zhdanov State Univ., Leningrad.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. P.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Organic Chemistry

Tertiary alcohols with a cyclobutyl radical. IV. Reaction of isopropylphenylcyclobutylcarbinol with hydrochloric and sulfuric acids. V. A. Favorskay and I. P. Yakovlev. *J. Gen. Chem.* (U.S.S.R.) 22, 1855-60(1952)(Engl. translation).—See *C.A.* 47, 8870b. H. L. H.

(2) fuel

8-30-54

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. K.

USSR

Catalytic synthesis of [illegible] and ethers. I. Synthesis of ketones from acetic acid and ethyl alcohol base. I. P. Yakovlev and N. A. Kitrosskii. *Uchenye Zapiski Kishinevskogo Gosudarst. Univ.*, 7, 105-7(1953); *Referat. Zhur., Khim.* 1954, No. 31056.—Me$_2$CO and MeCOEt were obtained by passing a 1:4 molar ratio mixt. of AcOH and EtOH at 380-80° and a rate of 8-10 ml./hr. over a catalyst. (cf. *C.A.* 46, 11119*d*). As the temp. increased from 400 to 480° the yield of Me$_2$CO dropped and the yield of MeCOEt rose. Carrying out the reaction in a stream of H increased the yield of MeCOEt greatly. A mechanism is proposed. M. Hosek

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. P.

USSR/Chemistry - Catalysis

Card 1/1 Pub. 151 - 11/33

Authors : Yakovlev, I. P.

Title : Catalytic synthesis of ketones. Part 2.- Synthesis of methylbutyl ketones and methylethyl ketone

Periodical : Zhur. ob. khim. 24/6, 983-987, June 1954

Abstract : The possibility of catalytic synthesis of esters and ketones from aliphatic alcohols and acids (acetic acid and n-butyl alcohol) over CrMg catalysts is discussed. The complete reaction process is described in detail. The reaction process of catalytic synthesis of ketones from acid halides and alkyl halides (acetyl chloride and ethyl bromide) is explained. The initial stage of formation of esters and ketones from acid-alcohol mixtures was found to be analogous to the initial stage of formation of ketones from acid halides and alkyl halides. Three USSR references (1952 and 1953).

Institution : State University, Kishinev

Submitted : October 20, 1953

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I. P.

USSR/ Chemistry Catalytic synthesis

Card : 1/1 Pub. 151 - 15/35

Authors : Yakovlev, I. P., and Dorfman, Ya.

Title : Catalytic synthesis of ketones. Part 3.- Synthesis of methylethyl-, methyl- and methylisobutyl ketones

Periodical : Zhur. ob. khim. 24, Ed. 7, 1171 - 1175, July 1954

Abstract : The theoretical assumptions regarding the ketonization (conversion into ketones) of alcohol mixtures, were investigated and confirmed. A new method for the synthesis of ketones from acetic acid anhydride and alcohols (preferably ethyl, butyl and isobutyl), is described. It was established that catalytic synthesis of saturated ketones from alcohols and acid anhydrides is possible only in the presence of H. A CrMn catalyst was found most stable in the presence of H and requires no regeneration. Six USSR references. Tables.

Institution : State University, Kishinev, Mold-SSR

Submitted : October 20, 1953

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

Catalytic synthesis of ketones. IV. Synthesis of methyl propyl, methyl isobutyl, diisopropyl, and isopropyl butyl ketones. I. P. Yakovlev (State Univ., Kishinev). *Zhur. Obshchei Khim.* 25, 275-5(1955); cf. *C.A.* 49, 12282g.—Passage of 1:3 ratio of iso-PrOH and AcOH over Cr-Mn catalyst at 400°, 430°, and 460° at 13–40 ml./hr. gave mainly Me_2CO along with small amounts of iso-PrAc; at 460° there also formed some MeCH:CHAc, and iso-PrAc. Similar reaction in H stream gave progressively higher yields of PrAc and iso-PrAc, reaching 1.3% and 8.2%, resp. at 460°. A 3:1 mixt. of AcOH and iso-BuOH at 450° in H over the same catalyst gave iso-PrAc, iso-BuAc, iso-Pr_2CO, and iso-$BuCOCHMe_2$, along with Me_2CO. Passage of iso-BuOH over the catalyst at 460° in H gave iso-PrCHO and a low yield of iso-Pr_2CO, $Me_2CHCOCMe_2$, iso-$BuCOCHMe_2$, and an unidentified material, b. 175–85°. Thus the ketonization scheme proposed earlier is correct, although the yields of ketones, and especially their sepn. from the mixts. that are obtained, are not too satisfactory. G. M. K.

CH

MST

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

SOV/62-58-8-16/22

AUTHORS: Shuykin, N. I., Cherkashin, M. I., Yakovlev, I. P.

TITLE: The Hydrolysis of Dicyclopentyl on a Skeleton Nickel-Aluminium Catalyst (Gidrogenoliz ditsiklopentila na skeletnom Ni - Al - katalizatore)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1958, Nr 8, pp. 1008-1010 (USSR)

ABSTRACT: In the present short report the authors described their investigation of the reaction of the hydrolysis of dicyclopentyl on a skeleton nickel-aluminium catalyst at atmospheric pressure and at 200°. On these conditions the hydrolysis of only a five-membered ring with a simultaneous formation of products of the simple rupture of the C - C bonds of the five-membered ring as well as of alkyl cyclopentanes with a shortened side chain takes place. The scheme of the mechanism of the dicyclopentyl hydrolysis was devised and suggested by the authors. There are 1 table and 8 references, 6 of which are Soviet.

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

The Hydrolysis of Dicyclopentyl on a Skeleton Nickel-Aluminium Catalyst SOV/62-58-8-16/22

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, AS USSR)

SUBMITTED: March 5, 1958

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

YAKOVLEV, I.P.; POPA, D.P.

Catalytic synthesis of ketones. Part 5: Synthesis of methyl phenyl, ethyl phenyl, methyl n-propyl, and di-n-propyl ketones. Zhur. ob. khim. 28 no.9:2475-2478 S '58. (MIRA 11:11)

1. Kishinevskiy gosudarstvennyy universitet.
(Ketone)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

5 (3)

AUTHORS: Freydlin, L. Kh., Balandin, A. A., Zhukova, I. F., Yakovlev, I. P.

SOV/62-59-9-20/40

TITLE: Investigation of the Selective Effect of Catalysts. Communication 3. Hydration of Isoprene on a Skeleton Nickel Catalyst

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 9, pp 1640 - 1645 (USSR)

ABSTRACT: The hydration of isoprene on a skeleton nickel catalyst was investigated without (Fig 1) and with the addition of pyridine (Fig 2), and under pressure. The step-by-step hydration of the isoprene was established by determining the diene content in the catalyst before and after the consumption of 1 mol of hydrogen. After consumption of 1 mol of H no diene could be detected in the catalyst, which confirms the stepwise hydration. The diene was determined according to B. N. Afanas'yev (Ref 6) or A. Baeyer (Ref 7). The authors found that the step-by-step hydration occurs as well with as without pyridine and that at experiments with small quantities of pyridine the reaction proceeds only to the formation of monoolefines. The influence of the quantity pyridine/catalyst surface and the influence isoprene/catalyst surface (Tables 3,4) was investigated concerning Ni + pyridine

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

Investigation of the Selective Effect of Catalysts. Communication 3. Hydration of Isoprene on a Skeleton Nickel Catalyst SOV/62-59-9-20/40

and found that an excess of pyridine hinders the isoprene hydration. The analysis of the reaction products of the Ni + pyridine experiment was carried out with the Raman spectrum. The two isomer substances 2-methylbutane-1 and 2-methylbutane-2 were present in the catalyzate. At variations of the pressure the selective effect of pyridine remained up to a pressure of 80 atm. Quinoline has the same effect as pyridine. There are 2 figures, 5 tables, and 9 references, 6 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: December 20, 1957

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

80716
S/079/60/030/05/62/074
B005/B126

5.3400
5.3200

AUTHOR: Yakovlev, I. P.

TITLE: Catalytic Synthesis of Aldehydes and Ketones. VII. Synthesis of Acetaldehyde From Acetic Acid and Formaldehyde

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1694-1697

TEXT: The author examined the dependence of the yield of acetaldehyde on the temperature of the reaction between acetic acid and formaldehyde in the presence of a chromium-copper catalyst; the kinetics of this catalytic reaction were also investigated. The reaction between acetic acid and formaldehyde takes place in the temperature range 180-380°, forming acetaldehyde and formic acid. At higher temperatures the formic acid reacts with the acetic acid and forms acetaldehyde, water, and CO_2. Besides, the formaldehyde decomposes at higher temperatures into hydrogen and CO. A table shows the products that are produced by the reaction of 95% acetic acid with the equimolar quantity of a 34.1% formaldehyde solution at 0° and in the temperature range 175-425°. The author examined the thermal decomposition of single

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961910017-6

Catalytic Synthesis of Aldehydes and Ketones. VII. Synthesis of Acetaldehyde From Acetic Acid and Formaldehyde

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components on the chromium-copper catalyst (acetic acid, acetaldehyde, formaldehyde, acetone, formic acid). The results are given. A diagram shows the changes in the quantities of the products of the reaction between acetic acid and formaldehyde, depending on the temperature. The changes in quantity of the following reaction products are given: total acid content, total quantity of carbonyl compounds, HCOOH, CH_3COOH, CH_2O, CH_3CHO. The experiments carried out showed that the production of acetaldehyde from acetic acid and formaldehyde is possible, in principle. The results confirmed a mechanism previously proposed, according to which acids and aldehydes and mixtures of both change into other aldehydes and ketones. The method is described in the experimental part. The production of the catalyst and the determination of acetaldehyde and formic acid are also described. The analysis of the gaseous reaction products was carried out in a VTI apparatus. There are 1 figure, 1 table, and 3 Soviet references.

ASSOCIATION: Kostromskoy tekstil'nyy institut (Kostroma Textile Institute)

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Card 2/2

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