"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

of forces of inertia coincides with the frequency of the transverse table travel. 3) The rigidity of the spindle assembly at a static load changes with the load (at small loads up to 6kG, J_{sp} = 400 kG/mm; at loads over 6 kG, J_{sp} = 850 kG/mm). The dynamic rigidity of the spindle assembly within the investigated interval of loads up to 25 kG remains constant: J_{sp} = 500 kG/mm. 4) Equations for forces derived theoretically and checked experimentally are necessary for calculating the precision of machining. These equations and experimental data on rigidity of the main assemblies of the machine tool enable one to control to a certain extent the process of machining precision gears and indicate the ways of creating the most rational technological process with allowance for rigidity of the system and efficiency. There are 31 figures and 6 references.

V. Belyayev

[Abstracter's note: Complete translation]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, A.V.; KRAVCHENKO, G.G.

Form grinding of gas-turbine blades on the KhSh-65 machines. Stan.i instr. 31 no.3:10-12 Mr '60. (MIRA 13:6)

(Grinding and polishing)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, A.V., dotsent; KAZIMIRCHIK, Yu.A., inzh.; MOKROUS, M.F., inzh.

Evaluating industrial methods for determining the rigidity of machine tools. Izv.vys.ucheb.zav.; mashinostr. no.2:189-194 '62. (MIRA 15:5)

1. Zaporozhskiy mashinostroitel'nyy institut.
(Machine tools--Testing)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

ACCESSION NR: AP4044382 S/0122/64/000/008/0064/0067

AUTHORS: Yakimov, A. V. (Candidate of technical sciences); Kazimirchik, Yu. A. (Engineer); Sipaylov, V. A. (Engineer)

TITLE: Investigation of temperatures in the zone of grinding

SOURCE: Vestnik machinostroyeniya, no. 8, 1964, 64-67

TOPIC TAGS: metal, grinding, cutting zone/ 12Kh2N4A steel, Kh20N80 wire, EB25SM2K magnetic core, N-102 oscillograph

ABSTRACT: Determining the temperature in the grinding zone and its dependence upon the type of cutting was cited as an important part of finishing operations. Figure 1 on the Enclosure is a schematic diagram of a proposed apparatus for making such determinations. Here (2) is a holder for the specimen (1); (4) are thermoelectrodes, (3) is an abrasive wheel, (5) is a copper cone, (6) is a copper plate, (7) is an oscillograph system. Oscillograms are presented showing the temperature changes in the cutting zone for a 12Kh2N4A steel specimen. More accurate results were obtained using a special core EB25SM2K with Kh20N80 wire windings of 0.2 mm. thickness placed in grooves along the core face. Using the improved core the oscillograms showed temperature fluctuations more accurately. Oscillograph N-102 was used in the tests.

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ACCESSION NR: AP4044382

Results revealed that the grinding temperature climbs rapidly during the first 7 seconds (about 700C increase) but rises only about 150C during the next 6 seconds. Test results were plotted (grinding depth vs temperature) for several grinding rotation velocities. Additional graphs showed the structure of the surface layer of a ground sample (12Kh2N4A). In these graphs the axes of the plot were calibrated for ground depth and for surface hardness. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 01

SUB CODE: MM NO REF SOV: 000 OTHER: 000

Card 2/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

ACCESSION NR: AP4044382

ENCLOSURE: 01

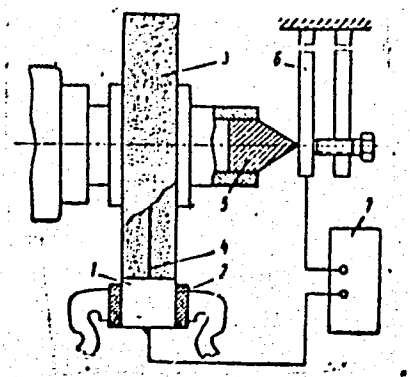

Fig. 1.

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YAKIMOV, A V., kand. tekhn. nauk; KAZIMIRCHIK, Yu.A., inzh.; SIPAYLOV, V.A., inzh.

Investigating temperatures in the grinding area. Vest. mashinostr. 44 no.8:64-67 Ag '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

SHERYSHEV, V.I.; YAKIMOV, A.V.; KAZIMIRCHIK, Yu.A.

Force dependences in grinding gears with dish wheels. Stan. i instr. 36 no.10:9-10 O '65. (MIRA 18:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

L 27909-66 EWT(m)/EWA(d)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/DJ

ACC NR: AP6017714 SOURCE CODE: UR/0122/66/000/003/0069/0072

AUTHOR: Sipayloy, V. A. (Engineer); Yakimov, A. V. (Candidate of technical sciences); Potemkin, V. I. (Engineer); Ivanov, S. A. (Engineer)

ORG: none

TITLE: Phenomena which take place in the surface layer during grinding

SOURCE: Vestnik mashinostroyeniya, no. 3, 1966, 69-72

TOPIC TAGS: steel, case hardening, annealing, tempering, transmission gear, hardness, grinding, cold working, thermocouple, potentiometer, metallographic examination/12Kh2N4A steel

ABSTRACT: The combination of mechanical and thermal effects which accompany the grinding process causes a considerable change in the physical and chemical state of the surface layer in many cases which may reduce the bearing capacity of components; therefore, it is important to study the thermal processes which take place in the surface layer during grinding and to seek methods for controlling these processes.

Cylindrical spur gears ($m = 3.85$ mm, $z_k = 31$, $\alpha' = 20°$, $b = 35$ mm) made from 12Kh2N4A steel were studied. The gears were case hardened to a depth of 1.1-1.3 mm at 900° centigrade, annealed at 650° C, double annealed at 860±20°C and at 800±20°C, cold-worked in liquid nitrogen and tempered at 150±10°C. The experiments were done on a Maag SS30Kh gear hob. An EB25M2K wheel was used for removing a decarburized layer of 0.1 mm in 10 passes at $t = 0.008$-0.01 mm,

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ACC NR: AP6017714

v_{kv} = 27 m/sec, s_{np} = 100 mm/min and n = 225 oscillations per minute. After preliminary grinding the experiments were done with the same wheel at t = 0.02, 0.04, 0.06 and 0.08 mm, s_{np} = 100, 200 and 300 mm/min. The grinding wheels were checked for hardness and density before the experiments and trued on both sides and carefully balanced.

The actual temperature fields were concentrated in a region having a depth of 0.1-0.2 mm and were inaccessible to direct measurement. The temperature field was therefore simulated to clarify the nature of temperature distribution and its relationship to grinding conditions. The model was a unit which could be used for moving a carbon electrode along the surface of a 12Kh2N4A steel specimen. An electric current was sent through the contact area between the electrode and the specimen and the heat released was checked by measuring the electrical power. An EPP-09 potentiometer and a chromel-copel thermocouple were used for recording the temperature field of the model.

Distribution of heat between the workpiece and the chip varies with the depth of cut. The amount of heat which goes to the chip may be disregarded for light cuts (t = 0.02 mm or less). This heat increases with cutting depth and at 0.1 mm is nearly 25% of the total heat for 12Kh2N4A steel. In spite of the insignificant difference in temperatures in the grinding zone between 0.02 and 0.1 mm, the structural transformations during grinding vary with cutting depth in this interval. Metallographic studies were confirmed by analysis.

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ACC NR: AP6017714

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Changes in microhardness revealed that structural transformations take place in the surface layer of carburized steels under the action of high temperatures during grinding. The temperature in the grinding zone must be lowered to reduce these structural transformations. This may be accomplished by reducing the severity of operating conditions (which is extremely undesirable since this also results in a sharp reduction in productivity) or by using sectional grinding wheels. Experiments on intermittent grinding at the Perm' Polytechnical Institute indicate that thermal processes may be controlled and the quality of the surface layer may be improved by varying the size of the cutting sections on sectional wheels. Orig. art. has: 8 figures, 4 formulas and 1 table. [JPRS]

SUB CODE: 13, 20, 11 / SUBM DATE: none / ORIG REF: 005

Card 3/3 BLG

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

GRISHAYEV, I.A. [Hryshaiev, I.O.]; KOLOSOV, V.I.; MYAKOTA, V.I. [M'iakota, V.I.]; YAKIMOV, B.V. [IAkymov, B.V.]

Eliminating the effect of a harmful magnetic field component in a magnetic undulator. Ukr.fiz.zhur. 4 no.6:810-812 N-D '59. (MIRA 14:10)

1. Fiziko-tekhnicheskiy institut AN UDSR.
(Magnetic fields) (Magnetic instruments)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

7.3260 68805

AUTHORS: Grishayev, I. A., Kolosov, V. I., Myakota, V. I., Beloglazov, V. I., Yakimov, B. V.

S/020/60/131/01/016/060
B013/B007

TITLE: The Experimental Determination of the Power of the Submillimeter Range in a Magnetic Undulator

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 1, pp 61 - 63 (USSR)

ABSTRACT: The present paper describes the preliminary results obtained by determining the summational mean power of the electromagnetic oscillations of the submillimeter range. The power to be determined is emitted by relativistic 17 Mev electrons in a magnetic undulator. With an average electron amperage of 4 μa, $\sim 10^{-7}$ w was obtained for the level of the mean power. The production of a radiation in the tenth-of-a-millimeter range and in the submillimeter range is of great practical interest. Such electromagnetic oscillations can at present be produced only by means of spark generators and heated bodies. However, the power levels obtained in this way are very low. The undulatory method of producing high-frequency oscillations, which is based upon

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using the double Doppler-effect of frequency transformation, makes it possible to bridge the entire range of electromagnetic oscillations from 1 mm to visible light. The level of the emitted power may actually be made sufficiently large, even in the case of an incoherent radiation. For the frequency of radiation in a magnetic undulator for the free space $\nu = v/[l_0(1 - \beta\cos\vartheta)]$ holds. Here v denotes electron velocity, l_0 - the period of magnetic structure; $\beta = v/c$; ϑ - the angle between the direction of motion and the direction towards the observer. The production of electromagnetic oscillations may, in a sufficiently wide frequency-range, be determined by measuring electron energy (with constant l_0). The undulator used in the present paper consists of separate electromagnets, in which it was possible to eliminate completely the harmful components of the magnetic field. 90% of the input amperage passed through the entire undulator. With the wave guide dimensions used here, a discrete spectrum of electromagnetic oscillations was obtained because of the difference of the excited oscillations. This spectrum is subdivided into the two principal ranges of 100 to 250 μ and

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50 to 67 μ. The main part of the lines produced is in the latter range. At present, measurements of the entire power of radiation of the entire spectrum investigated are being carried out, and preparations are made for recording the spectrum. Figure 1 shows the scheme of the device. The elimination of background is briefly dealt with. The power of electron radiation in the undulator is proportional to H^2, and therefore $\frac{P(H_1)}{P(H_2)} = \frac{H_1^2}{H_2^2}$ holds. Herefrom and from an other equation it is possible to calculate the absolute amount of radiation intensity for a given magnetic field. The results obtained by the measurements are given in table 1. The authors thank K. D. Sinel'nikov, Academician of the AS UkrSSR, for the suggested theme, and Ya. S. Faynberg for discussing the results obtained. There are 1 figure, 1 table, and 3 references.

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ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk USSR (Institute of Physics and Technology of the Academy of Sciences of the UkrSSR)

PRESENTED: September 16, 1959, by M. A. Leontovich, Academician

SUBMITTED: September 1, 1959

Yakimov, B.V.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

SHORIN, V., kand. tekhn. nauk; YAKIMOV, E., inzh.

Reducing the maximum of the electric load on feeders. Rech. transp. 22 no.9:21-23 S '63. (MIRA 16:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, F.I., inzh.

Erecting poles for electric transmission lines at the construction site of the Stalingrad Hydroelectric Power Station. Biul. stroi. tekh. 12 no.6:5-8 Je '55. (MIRA 11:12)

1.Trest Stal'montazh.

(Electric lines--Poles)
(Stalingrad Hydroelectric Power Station)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

PLATONOV, P.P.; YAKIMOV, F.Ya., red.; PETROV, G.P., tekhn.red.

[Forty years of Chuvashia in figures] Chuvashiia za 40 let v tsifrakh. Cheboksary, Chuvashskoe gos.izd-vo, 1960. 194 p. (MIRA 13:12)

1. Zamestitel' nachal'nika Statisticheskogo upravleniya Chuvashskoy ASSR (for Platonov). 2. Nachal'nik Statisticheskogo upravleniya Chuvashskoy ASSR (for Yakimov).
(Chuvashia--Statistics)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G., general-mayor

Strictness is a significant feature of party guidance. Komm.-Vooruzh.Sil 2 no.13:25-31 Jl '62. (MIRA 15:7)

1. Nachal'nik politupravleniya Sibirskogo voyennogo okruga.
(Russia--Army--Political activity)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

Yakimov, G. D.

SHABALIN, A.Ye.; YAKIMOV, G.D., aspirant; NOVIKOV, N.Ye., aspirant.

"Machines and apparatuses in the paper industry" by B.A. Gaevskii, Reviewed by A.E. Shabalin, G.D. IAkimov, N.E. Novikov. Bum.prom. 32 no.2:29-31 F '57. (MLRA 10:5)

1.Glavnyy inzhener Proizvodstvennogo upravleniya Ministerstva bumazhnoy i derevoobrabatyvayushchey promyshlennosti USSR (for Shabalin) 2.Leningradskiy tekhnologicheskiy institut im. V.M. Molotova (for Yakimov, Novikov)

(Paper industry) (Papermaking machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.D., prepodavatel' kafedry "Mashiny i apparaty tsellyulozno-bumazhnykh proizvodstv"

Construction parameters of wires for modern newsprint making machines. Bum.prom. 34 no.12:20-22 D '59. (MIRA 13:4)

1. Leningradskiy tekhnologicheskiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Papermaking machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.D.

Dewatering of paper sheet in high-speed machines under vacuum.
Bum.prom. 35 no.8:16-18 Ag '60. (MIRA 13:8)

1. Starshiy prepodavatel' Leningradskogo tekhnologicheskogo instituta tsellyulozno-bumazhnoy promyshlennosti.
(Papermaking machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G. I.

CA

30

Condensation of acetaldehyde to aldol. (Production of butadiene from 1,3-butylene glycol.) E. A. Shilov and G. I. Yakimov. *Sintet. Kauchuk* 1934, No. 4, 7–12.—Condensation was carried out by the addn. of NaOH (0.4 cc. of 10% NaOH per 20 g. of AcH as standard). The speed of reaction increases with the proportion of catalyst and with an increase in temp. The presence of ether retards the reaction. The reaction stops upon reaching a certain limit. Water and alcs. do not change the limit of condensation.

A. Pretoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.I.

YAKIMOV, G.I.; SOKOLOVA, N.A.; VOROB'YEVA, A.N.

Dyeing staple fabrics with sulphur dyes. Tekst.prom. 17 no.10: 40-43 O '57. MIRA 10:12)

(Dyes and dyeing--Cotton)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.I.; CHERNOMORDIK, A.Z., khimik

Dyeing staple fiber fabrics treated with the KMTS sizing. Tekst.prom. 19 no.12:67-69 D '59. (MIRA 13:3)

1. Zaveduyushchiy khimicheskoy laboratoriyey fabriki Bol'shaya Ivanovskaya Manufaktura (for Yakimov). 2. Khimicheskaya laboratoriya fabriki Bol'shaya Ivanovskaya Manufaktura (for Chernomordik).
(Dyes and dyeing--Cotton) (Cotton sizing)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.I.; CHERNOMORDIK A.Z., inzh.-khimik; KUZNETSOVA, A.I.

Use of hydrogen peroxide for the preparation of starch thickeners. Tekst. prom. 21 no.10:62-63 O '61. (MIRA 14:10)

1. Zaveduyushchiy khimicheskoy laboratoriyey fabriki Bol'shaya Ivanovskaya manufaktura (for Yakimov). 2. Khimicheskaya laboratoriya fabriki Bol'shaya Ivanovskaya manufaktura (for Chernomordik). 3. Starshiy master pechatnoy laboratorii fabriki Bol'shaya Ivanovskaya manufaktura (for Kuznetsova).
(Textile printing)
(Thickening agents)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V., prof., doktor tekhn.nauk

Adsorption of radioactive elements when radon waters are being conducted through pipes. Nauch.dokl.vys.shkoly; stroi. no.2: 297-303 '58. (MIRA 12:1)
(Radioactive substances) (Radon)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.

Water and radioactive elements. Vod. i san. tekh. no.6:27-28 Je '58. (MIRA 11:5)

(Radioactivity)
(Water--Purification)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V., prof., doktor tekhn.nauk

Method for preventing carbonate deposits from waste mineral waters in pipes and canals. Trudy NPI 74:3-17 '59. (MIRA 14:3)

1. Kafedra vodosnabzheniya i kanalizatsii Novocherkasskogo politekhnicheskogo instituta.
(Carbonates) (Mineral waters)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.

Bath engineering as a factor in the planning of health resorts. Trudy NPI 102:37-44 '59. (MIRA 13:7)
(Health resorts, watering places, etc.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, Georgiy Vasil'yevich, prof., doktor tekhn. nauk; KOGAN, A.S., red.; CHEKRYZHOV, V.A., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Removal of radioactive isotopes from water and sewage] Ochistka vody i stochnoi zhidkosti ot radioaktivnykh izotopov. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961. 84 p. (MIRA 14:9)
(Radioactivity—Safety measures) (Water—Purification)
(Sewage—Purification)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.

The problem of precision in measuring radon in mineral springs. (MIRA 15:2)
Trudy NPI 114:3-6 '61.
(Radon)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.

Experimental heating of narzan sulphurous mineral water at the drinking counter. Trudy NPI 138:3-10 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.

Problems of radiometric water control. Trudy NPI 157:3-8 '64.
(MIRA 19:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.; MATSNEV, A.I.

Technology of the purification of waste waters of the Barnaul Factory of Rayon and Synthetic Fibers by the flotation method. Trudy NPI 157:9-18 '64. (MIRA 19:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, G.V.; ROZHDOV, I.N.

Fouling of water pipelines under the effect of Don River water. Trudy NPI 157:19-27 '64.

(MIRA 19:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, I.A.

Workdays of the Syzran communication workers. Avtom., telem. i sviaz' no.3:41-42 Mr '57. (MLRA 10:4)

(Syzran--Electric lines)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, I.A.

Senior electrician Nikolai Novozhenov. Avtom., telem. i sviaz' no.2: 37-38 F '57. (MIRA 10:4)

(Novozhelov, Nikolai Stepanovich)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YEVDOKIMOV, I.I.; ALEKSEYEV, V.D.; ASHIKHMIN, A.K.; BAYEV, N.V.; BEGLAR'YAN, P.A.; BYCHKOV, I.A.; VESLOVA, Ye.T.; VYZHEKHOVSKAYA, M.F.; GURETSKIY, S.A.; DEMIDOV, I.M.; YESIPOV, Ye.P.; ZHUKOV, V.D.; ZELINSKIY, M.G.; ZOL'NIKOV, F.T.; ZOLOTOVA, L.I.; KIVIN, A.N.; KOMARNITSKIY, Yu.A.; KONSTANTINOV, A.N.; KUL'CHITSKAYA, A.K.; MAKSIMENKO, I.I.; MELENT'YEV, A.A.; MOROZOV, I.G.; MURZINOV, M.I.; OZEMBLOVSKIY, Ch.S.; OSTRYAKOV, K.I.; PANINA, A.A.; PAVLOVSKIY, V.V.; PERMINOV, A.S.; PERSHIN, B.F.; PRONIN, S.F.; PSHENNYY, A.I.; POKROVSKIY, M.I.; RASPONOMAREV, Ye.A.; SEMIN, I.N.; SKLYAROV, Yu.N.; TIBABSHEV, A.I.; FARBEROV, Ya.D.; FEDOROV, G.P.; SHUL'GIN, Ya.S.; YAKIMOV, I.A.; VERINA, G.P., tekhn.red.

[Labor feats of railway workers; stories about the innovators] Trudovye podvigi zheleznodorozhnikov; rasskazy o novatorakh. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 267 p. (MIRA 12:9)
(Railroads) (Socialist competition)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

BLINOV, O.S., inzh., SUKACH, G.Ye., inzh., STEPANOV, D.P., inzh., YAKIMOV, I.D., inzh.; IVANOV, A.S., red., SEMENOV, S.M., red.; OSOKINA, A.M., red.izd-va.; BAGHURINA, A.M., tekhn. red.

[Standard technical specifications for building logging roads] Tipovye tekhnologicheskie pravila proizvodstva rabot po stroitel'stva lesovoznykh dorog. Moskva, Goslesbumizdat. Vol. 2 and 3. [Automobile roads] Avtomobil'nye dorogi. Pt.3. [Engineering structures] Stroitel'stvo iskusstvennykh sooruzhenii. 1957. 46.p. (MIRA 11:10)

1. Moscow. Gosudarstvennyy institut po proyektirovaniyu lesnogo transporta.

(Bridges, Wooden)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

BLINOV, O.S.; BELEN'KIY, Ye.L.; BRAUSEVICH, S.T.; DOROKHOV, B.A.; ZIGMUND, F.R.; ITSIKOV, G.B.; LEVER, A.A.; LESHCH-BORISOVSKIY, A.I.; MURTUZALIYEV, S.A.; PIIR, A.I.; YUZIKHIN, Ye.Ye.; YAKIMOV, I.D.; SHCHELKUNOV, V.V., retsenzent; GONCHAROV, A.F., otv. red.; KORCHUNOV, N.G., otv. red.; NIKOL'SKIY, B.V., otv. red.; POSTREMOV, G.A. [deceased]; SLUTSKER, M.Z., red. izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Lumbering; land transportation of timber] Lesozagotovki; sukhoputnyi transport lesa. Spravochnik. Moskva, Goslesbumizdat, 1962. 504 p. (MIRA 16:7)
(Lumber—Transportation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

ZABOLOTNYY, I.I., inzh.; ORLOV, N.A., inzh.; YAKIMOV, I.D., otv. red.

[Manual on engineering geological operations in explorations for lumber industry enterprises] Nastavlenie po inzhenerno-geologicheskim rabotam pri izyskaniiakh predpriiatii lesnoi promyshlennosti. Leningrad, 1962. 190 p. (MIRA 17:7)

1. Moscow. Gosudarstvennyy institut po proyektirovaniyu lesnogo transporta. 2. Gosudarstvennyy institut po proyektirovaniyu lesnogo transporta, Moscow (for Zabolotnyy). 3. Nachal'nik tekhnicheskogo otdela Gosudarstvennogo instituta po proyektirovaniyu lesnogo transporta, Moscow (for Yakimov).

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

VAKIMOV, I.I.

CA

Diazotization vat. I. I. Vakimov. Russ. 50,806, April 30, 1941. Construction details.

1

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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3RD AND 4TH ORDERS

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PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

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Ca

YAKIMOV, I. I.

Sizing warp yarn. N. H. Fedorova, I. I. Yakimov, and Z. F. Toropova. U.S.S.R. 64,990, Aug. 31, 1943. Warp yarn is satd. with a soap emulsion of wax, fat, or similar substance, and is then treated with a soln. of a metal salt which forms insol. soaps, e.g., a Ca salt. Hardness of the web can be increased by adding to the salt soln. glue, rosin, or a similar substance. M. Hosch

COMMON ELEMENTS

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.

5635. KLESHCHEV, V. i YAKIMOV, L. Peredoviki chelyabinskoy oblasti na VSKHV v 1954 g. Chelyabinsk. Kn. izd, 1954. 96 s. s ill.; Il. ill. 22sm. 5.000 ekz. 1 r 80k -[55-1003]p 63(064)(47)+63st(47.812)

So. Knizhnaya, Letopis', 1, 1955

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.

PROCESSES AND PROPERTIES INDEX

937. MECHANICAL GAS ANALYSER FOR BOILER INSTALLATIONS. Yakimov, L.K. (Prom. Energetika, 1946, 3, No. 1, 12-13) The operating principle of this gas analyzer is the difference in pressure between a column of air and a similar column of flue gas. The analyzer, described in detail, is simple in construction, rugged, and withstands well the work conditions.

C.A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.

F T

5050. NEW AUTOMATIC GAS ANALYZER WORKING ON YAKIMOV'S CO_2 SYSTEM. Yakimov, L. K. and Tumanov, V. E. (Za Ekonomiyu Topliva (Fuel Economy), V.14, 1947, N.7, 10-17).

Fuel economy depends largely on systematic and reliable gas analysis in the boiler plant. The authors have invented a gas analyzer of which full details and diagrams are given. It is claimed that the appliance is very simple and easy to operate; it may be hung on the wall or housed in a control panel and gives CO_2 readings indicating the degree of combustion; it is suitable for manufacture in small numbers or on a large scale.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

PA 1T89

YAKIMOV, L. K.

USSR/Thermodynamics - gases
Precision Instruments

1 May 194

"Automatic Gas Weighers," L K Yakimov, 4 pp

"Dok Akad Nauk USSR Nov Ser" Vol LVI, No 4

Gas weighers are a device for measurement of calorific value, rarefaction, and chemical analysis of gas. Can also be used for internal combustion engines, moisture and acid measurements. This new device is highly sensitive and accurate.

1T89

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K., professor, doktor tekhnicheskikh nauk.

Mechanical calorimeter. Biul.stroi.tekh. 10 no.13:19 Ag '53. (MLRA 6:10)

1. Moskovskiy institut narodnogo khozyaystva im. G.V.Plekhanova.
(Calorimeters and calorimetry)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.

New thermal insulating materials for underground heating pipes.
Vod. i san. tekh. no.12:22-25 D '59. (MIRA 13:3)
(Heating pipes) (Insulation (Heat))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.

The one-pipe hot-water heating system and its technical and economic bases. Sbor. nauch. rab. AKKH no.9:152-169 '61. (MIRA 16:1)

(Hot-water heating)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.; LYAKHOV, O.G.; YAKIMOV, O.L.

Contact watertube boiler unit for heat supply to industrial enterprises. Prom.energ. 17 no.1:12-15 Ja '62.
(MIRA 14:12)

(Boilers, Watertube)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K., doktor tekhn.nauk; TUMANOV, N.Ye., kand.tekhn.nauk; KNYAZEV, A.M., kand.tekhn.nauk

Design of the ash and slag conducting pressure pipelines of electric power plants. Elek.sta.33 no.1:14-18 Ja '62. (MIRA 15:3)
(Ash disposal)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.; LYAKHOV, O.G.; KHASILEV, V.Ya.; YAKIMOV, O.L.

An efficient type of water-heating boiler unit with a contact chamber for a one-pipe system of centralized heat supply. Sbor. nauch. rab. AKKH no.9:31-50 '61. (MIRA 16:1)
(Heating from central stations) (Water heaters)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKOVLEV, M.N.; YAKIMOV, L.K., prof., red.; SERGEYEVA, A.S., tekhn. red.

[Laboratory work in electrical engineering] Laboratornye raboty po elektrotekhnike; uchebnoe posobie dlia studentov tekhnologicheskogo i tovarovednogo fakul'tetov. Moskva, In-t nar. khoz. 1963. 108 p. (MIRA 16:10)
(Electric engineering—Laboratory manuals)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.S.; IVANOV, B.I.

Final purification of phenol waters with activated carbon.
Trudy VNIIT no.12:306-311 '63. (MIRA 18:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A

9
IRAL

4106 AEC-tr-2435((Pt. 2) (p. 101-10))
SPALLATION AND FISSION REACTIONS OF COMPLEX NUCLEI(Cu, La, Bi). A. N. Murin, B. K. Preobrazhensky (Preobrazhenskii), I. A. Yutlandov, and M. A. Yakimov, p. 101-10 of CONFERENCE OF THE ACADEMY OF SCIENCES OF THE USSR ON THE PEACEFUL USES OF ATOMIC ENERGY, JULY 1-5, 1955. SESSION OF THE DIVISION OF CHEMICAL SCIENCE. (Translation). 10p.
This paper was originally abstracted from the Russian and appeared in Nuclear Science Abstracts as NSA 9:7939.

4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

Yakimov, M.A.

78-2-36/43

AUTHORS: Yakimov, M. A., Nosova, N. F., Grishin, V. A.

TITLE: I. Investigations Concerning the Simultaneous Solubility of Uranyl Nitrate and Nitrates of Alkaline-Earth Metals in Water (I. Izucheniye sovmestnoy rastvorimosti nitrata uranila i nitratov shchelochnozemel'nykh metallov v vode)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 2, pp.504-507 (USSR)

ABSTRACT: The solubility in the following three systems was investigated by the isothermic method:

a/ $UO_2(NO_3)_2 - Ba(NO_3)_2 - H_2O$

b/ $UO_2(NO_3)_2 - Sr(NO_3)_2 - H_2O$

c/ $UO_2(NO_3)_2 - Ca(NO_3)_2 - H_2O$

The saturated solutions were filled into glass ampules which were kept in a thermostat for 3-3 1/2 hours. The solubility was investigated at 0, 25 and 50°C. No critical point indicating a double salt was determined in the system $UO_2(NO_3)_2$-

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

78-2-36/43

I. Investigations Concerning the Simultaneous Solubility of Uranyl Nitrate and Nitrates of Alkaline-Earth Metals in Water

- $Ba(NO_3)_2$ - H_2O at 0, 25 and 50°C. In the system $UO_2(NO_3)_2$ - $Sr(NO_3)_2$ - H_2O three solubility curves were determined at 25°C which correspond to the solubility of $Sr(NO_3)_2 \cdot 4\ H_2O$, of anhydrous strontium nitrate and of hexanitrate-uranyl-nitrate.
$UO_2(NO_3)_2$ - $Ca(NO_3)_2$ - H_2O has critical points at 0 and 25°C in the case of 6,76 % $UO_2(NO_3)_2$, 43,32 % $Ca(NO_3)_2$ and 7,92% $UO_2(NO_3)_2$, 50,48 % $Ca(NO_3)_2$.
At the applied temperatures no double salts were detected in any of the three systems. There are 3 figures, 3 tables, and 3 references, 1 of which is Slavic.

SUBMITTED: April 2, 1957

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

AUTHORS: Shchukarev, S.A., Yakimov, M.A., Mishin, V.Ya. SOV/78-3-7-34/44

TITLE: Investigation of the Solubility in the System $CsNO_3$-HNO_3-H_2O at 25° (Issledovaniye rastvorimosti v sisteme $CsNO_3$-HNO_3-H_2O pri 25°)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 7, pp 1661-1664 (USSR)

ABSTRACT: Investigations of the solubility of cesium in a nitric acid solution by means of radiometric methods were carried out by the application of radioactive cesium Cs^{134}.
Determination of solubility was carried out at 25 ± 0.05° C in the course of 3.5-4 hours.
In a concentrated nitric acid solution (d_4^{15} - 1.43-1.50) the acid salt crystallizes with a composition of $CsNO_3.HNO_3$.
The stability of this acid salt is between 0° and 50° C. With an increase of temperature the quantity of this salt decreases.
From a 96% nitric acid solution the compound $CsNO_3.2HNO_3$ is formed at low temperatures. There are 2 figures, 3 tables and 7 references, 2 of which are Soviet.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

Investigation of the Solubility in the System $CsNO_3$-HNO_3-H_2O at 25° SOV/78-3-7-34/44

SUBMITTED: June 8, 1957

1. Cesium--Solubility 2. Nitric acid--Solvent action 3. Cesium compounds--Analysis 4. Cesium isotopes(Radioactive)--Applications

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; NOSOVA, N.F.

Solubility isotherm for the system $UO_2(NO_3)_2$ - $Mg(NO_3)_2$ -H_2O at 0 and 25 . Zhur. neorg. khim. 5 no.3:720-721 Mr '60. (MIRA 14:6)
(Uranyl nitrate)
(Magnesium nitrate)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

S/078/61/006/001/011/019
B017/B054

AUTHORS: Yakimov, M. A., Nosova, N. F.

TITLE: Solubility Isotherms of the System $UO_2(NO_3)_2$ - $Be(NO_3)_2$ - H_2O at 0° and $25^\circ C$

PERIODICAL: Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 1, pp. 208 - 210

TEXT: The authors studied the solubility in the system $UO_2(NO_3)_2$ - $Be(NO_3)_2$ - H_2O at 0° and $25^\circ C$ by M. A. Yakimov's method (Ref.1). Results are given in a table. Fig.1 shows the solubility isotherms. The authors determined the composition of solutions and solid phases by precipitating beryllium as beryllium hydroxide from oxalic acid solution, and by precipitating uranium as uranyl oxy-quinolate. They studied the solubility isotherms of the system $UO_2(NO_3)_2$ - $LiNO_3$ - H_2O at 0° and $25^\circ C$, and give the results in Table 2 and Fig.2. The salting-out capacity of some nitrates decreases in the following order: $Mg^{2+} > Be^{2+} \gg Ca^{2+} > Li^{+} > Na^{+}$. The position of the beryllium ion in this

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

Solubility Isotherms of the System $UO_2(NO_3)_2$ - $Be(NO_3)_2$ - H_2O at 0^0 and 25^oC

S/078/61/006/001/011/019
B017/B054

order is explained by its high hydrolyzability in the solution. Fig.3 shows the number of water molecules within one nitrate molecule as a function of the concentration in mole%. There are 3 figures, 2 tables, and 6 references: 4 Soviet.

SUBMITTED: October 13, 1959

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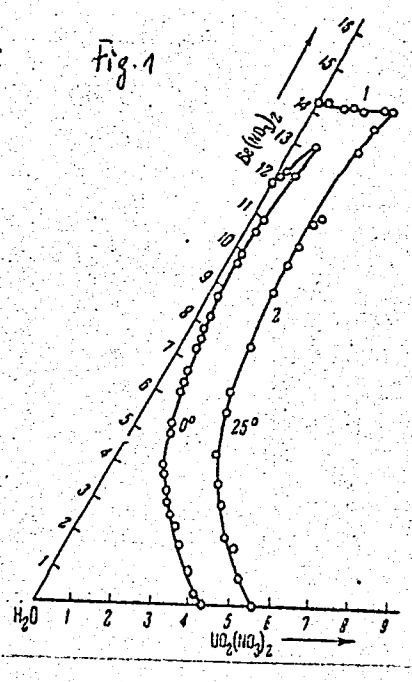
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

S/078/61/006/001/011/019
B017/B054

Fig. 1



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35349

S/054/62/000/001/007/011
B121/B138

21.4200

AUTHORS: Yakimov, M. A., Nosova, N. F.

TITLE: Mutual solubility in aqueous systems containing uranyl nitrate and nitrates of other elements

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no.1, 1962, 106-114

TEXT: The solubility of uranyl nitrate in nitrates of the zinc subgroup was studied by M. A. Yakimov's and N. F. Nosova's method (Ref. 8, M. A. Yakimov, N. F. Nosova, ZhNKh, 5, 3, 720, 1960). Equilibrium in the systems $UO_2(NO_3)_2$ - $Me(NO_3)_2$ - H_2O was usually reached after 2.5-3 hrs. At 0°C and 25°C, the solubility isotherm in the system $UO_2(NO_3)_2$ - $Zn(NO_3)_2$ - H_2O was found to have two branches: a smaller one with zinc nitrate in the solid phase, and a larger one with uranyl hexanitrate in the solid phase. The solubility in this system was found using radioactive Zn^{65} as indicator. Schreinemakers method was applied to determine the composition in the solid phase. In the system $UO_2(NO_3)_2$ - $Cd(NO_3)_2$ - H_2O, the solubility was

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

also determined at 0 and 25°C, and the solubility isotherm was found to form a curve with a eutectic point. In the system $UO_2(NO_3)_2$ - $Hg(NO_3)_2$ - H_2O, only the saturated solution was studied at 0, 15, and 25°C. The course of the solubility isotherm of the system $UO_2(NO_3)_2$ - $Me(NO_3)_2$ - H_2O (Me = Zn, Cd, and Hg) showed that no new phase is formed between 0 and 25°C. Interaction among the individual components in the system, however, is quite possible. Complex compounds of the type $MeUO_2(NO_3)_4$, mentioned in publications, occur either in strongly acid media or at low temperatures, where nitric acid probably supports the formation of $[UO_2(NO_3)_3]'$ and $[UO_2(NO_3)_4]''$ anion complexes and reduces the effect of water during complexing. There are 2 figures, 8 tables, and 14 references: 7 Soviet-bloc and 7 non-Soviet-bloc. The four references to English-language publications read as follows: E. Glueckauf, H. A. C. Mckay, R. Mathiesow. J. Chem. Soc., 299 (supplementary issue 2) 1949. A. H. C. Mckay. Chemistry and industry, No. 51, 1954. T. R. Scott, Analyst, 74, 486, 1949. J. W. Mellor. A comprehensive treatise of inorganic and theoretical chemistry. 12, U, Mn, Ma, Re, Fe, (part 1), 1932,

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; NOSOVA, N.F.

Reciprocal solubility in water systems containing uranyl nitrate and nitrates of other elements. Vest. LGU 17 no.4:106-114 '62. (MIRA 15:3)

(Uranyl nitrate)(Systems(Chemistry))(Solubility)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; NOSOVA, N.F.; DEGTYAREV, A.Ya.; YUY TSYAN'-TSI [Yü Ch'ien-ch'i]

Interaction of components in the systems type $MeNO_3 - UO_2(NO_3)_2 - H_2O$. Radiokhimiia 5 no.1:73-80 '63. (MIRA 16:2)

(Uranyl compounds)

(Nitrates) (Solubility)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; NOSOVA, N.F.; FILIPPOV, V.K.

Change of the chemical potentials of water in the systems type $UO_2(NO_3)_2 - M(NO_3)_n - H_2O$ at 25° C. Radiokhimiia 5 no.4:474-479 '63. (MIRA 16:10)

(Uranium compounds) (Water) (Activity coefficients)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

S/078/63/008/001/021/026
B189/B101

AUTHORS: Yakimov, M. A., Mishin, V. Ya.

TITLE: Solubility in the system $CsNO_3$ - HNO_3 - H_2O at temperatures of 0, 35, and 50°C

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 1, 1963, 226 - 230

TEXT: Mixtures of $CsNO_3$ - HNO_3 - H_2O were prepared in different concentrations at 0, 35, and 50°C and analyzed according to Schreinemakers. Analogous studies were carried out at 25°C to define previous data more exactly. The results were used to plot the solubility isotherms (Fig. 1). In view of the cesium ion being able to reduce HNO_3 dissociation, and of HNO_3 tending towards polymerization, the formula $Cs[HNO_3 \cdot NO_3]$ is suggested for the solvate $CsNO_3 \cdot HNO_3$, and $Cs[(HNO_3)_2 \cdot NO_3]$ for $CsNO_3 \cdot 2HNO_3$. The formation of complexes having the form $M[HNO_3 \cdot NO_3]$ and $M[(HNO_3)_2 \cdot NO_3]$ is discussed. There are 2 figures and 1 table.

SUBMITTED: March 23, 1962

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Solubility in the system...

S/078/63/008/001/021/026
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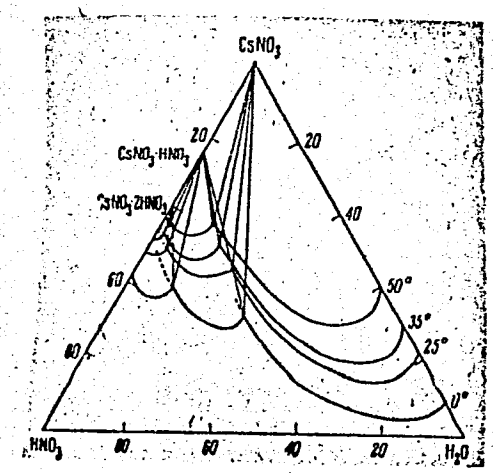
Fig. 1. Solubility isotherms of the system $CsNO_3$-HNO_3-H_2O at 0, 25, 35, and 50°C. (The compositions of the solutions are expressed in % by weight).



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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; MISHIN, V.Ya.; GOLOVA, L.F.

Solubility in the system $TlNO_4$ - HNO_3 - H_2O at 0 and 25°C.
Zhur. neorg. khim. 8 no.6:1470-1472 Je '63. (MIRA 16:6)

(Thallium nitrate) (Nitric acid)
(Solubility)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

L 36977-65

ACCESSION NR: AP4043853 S/0186/64/006/004/0454/0459

AUTHOR: Yakimov, M. A.; Mishin, V. Ya.

TITLE: A study of heterogeneous equilibria in the ternary system uranyl nitrate - nitric acid - water. Part I. Solubility isotherms of the system uranyl nitrate - nitric acid - water at 25, 35 and 50C

SOURCE: Radiokhimiya, v. 6, no. 4, 1964, 454-459

TOPIC TAGS: heterogeneous equilibrium, solubility isotherm, uranyl nitrate, nitric acid solution, uranyl nitrate disolvate

ABSTRACT: The isothermal method was used to study the solubility of uranyl nitrate in nitric acid solutions at 25, 35 and 50C. In this study, uranyl nitrate was determined gravimetrically in the usual way (precipitation of ammonium diuranate which yields uranium oxides on heating), nitric acid was determined by titration with NaOH after [illegible], and water was determined by difference. The solubility isotherms constructed for these 3 temperatures (see Fig. 1 of the Enclosure) consist of 4 branches, corresponding to the solubility of

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YAKIMOV, M.A.; MISHIN, V.Ya.; FILIPPOV, V.K.

Heterogeneous equilibria in the ternary system $UO_2(NO_3)_2$ - HNO_3 - H_2O. Part 3: Solution - vapor equilibrium of the binary system $UO_2(NO_3)_2$ - H_2O at 25 and 50°C. Radiokhimiia 6 no.5: 548-552 '64. (MIRA 18:1)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; MISHIN, V.Ya.

Heterogeneous equilibria in the ternary system $UO_2(NO_3)_2$ - HNO_3 - H_2O. Part 2: Solution - vapor equilibrium of the binary system HNO_3 - H_2O at 25,35 and 50°C. Radiokhimiia 6 no.5:543-548 '64. (MIRA 18:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, M.A.; MISHIN, V.Ya.; NOSOVA, N.F.; FILIPPOV, V.K.

Heterogeneous equilibria in the ternary system $UO_2(NO_3)_2$-HNO_3-H_2O Part 4: Solution-vapor equilibrium of the binary system uranyl nitrate-nitric acid-water at 25 and 50°C. Radiokhimiia 6 no.5:552-558 '64. (MIRA 18:1)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, N. N.

USSR/Medicine (Vet) - Infectious Diseases Aug 51

"Prophylaxis and Treatment of Equine Infectious Anemia According to Prof G. M. Bosh'yan," A. V. Mukhachev, Sr Vet Phys, N. N. Yakimov, Chief Vet Phys of Rayon Agr Div.

"Veterinariya" Vol XXVIII, No 8, pp 36, 37

By using the officially approved procedure (quarantine and disinfection), elimination of the disease could not be brought about. On the other hand, Bosh'yan's procedure, which involves use of VIEV (All-Union Inst of Vet Med) anemin for diagnosis and of VIEV vaccine, proved successful. Lasting immunity (1 yr) is conferred by VIEV vaccine

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, N. N.

SOV/112-58-2-2913

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 175 (USSR)

AUTHOR: Yakimov, N. N., and Bernashevskiy, G. A.

TITLE: Electron-Beam Devices (Elektronno-luchevyye pribory)

PERIODICAL: V sb.: Uspekhi elektrovakuum, tekhniki. M.-L., 1956, pp 126-178

ABSTRACT: The principle of operation and the physical phenomena of the electronic devices most promising or interesting from the authors' viewpoint are considered. All existing electron-beam devices are subdivided by the authors into three large groups according to their electron-beam shape: (1) devices with a narrow axial beam; (2) devices with a flat (tape) beam; (3) devices with a broad electron beam. Among the devices of the first group, 5 types of electrostatic memory tubes are considered (graphecon, a barrier-grid memory tube, a memory tube with a permeable potential carrier, a memory with photoelectric readout, a memory with a supporting beam), as well as a number of color television receiving tubes (a ruled-screen tube with post focusing and 1 or 3 guns, a tube with 3 lattice-type screens, a tube with 2 control grids, and a

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Electron-Beam Devices

tube with 45°-electron beam reflection). Among the devices of the second group, electron-beam switching tubes with a flat radial beam are presented, as well as a scaling tube with a flat deflecting beam and 4 types of trochotrons (linear, 2-dimensional, pyramid-type trochotron, ring-type). Of the wide-beam group, image translators are considered.

N. L. Ya.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

S/058/61/000/010/092/100
A001/A101

9,3120

AUTHORS: Yakimov, N.N., Sherstnev, L.G.

TITLE: Application of the tagged atom method to investigation of diffusion processes in oxide cathode

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 284, abstract 10Zh10 ("Tr. Mosk. energ. in-ta", 1961, no. 34, 315 - 322)

TEXT: The authors describe the method of investigating diffusion of excessive metal in coating of oxide cathode; it is more complete than employed earlier and takes into account the structure and real conditions of cathode operation. The method enables one to investigate directly diffusion processes and to estimate simultaneously evaporation from the coating surface of the metal diffused through the coating.

[Abstracter's note: Complete translation]

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YAKIMOV, L.K.; LYAKHOV, O.G.; KHASILEV, V.Ya.; YAKIMOV, O.L.

An efficient type of water-heating boiler unit with a contact chamber for a one-pipe system of centralized heat supply. Sbor. nauch. rab. AKKH no.9:31-50 '61. (MIRA 16:1)
(Heating from central stations) (Water heaters)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, L.K.; LYAKHOV, O.G.; YAKIMOV, O.L.

Contact watertube boiler unit for heat supply to industrial enterprises. Prom.energ. 17 no.1:12-15 Ja '62. (MIRA 14:12)

(Boilers, Watertube)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

ORLOV, V.V., inzh.; YAKIMOV, P.A. (Novosibirsk); KHLYZOV, A.G., starshiy dorozhnyy master (Novosibirsk)

Letters to the editor. Put' i put.khoz. 5 no.11:41 N '61. (MIRA 14:12)

1. Nachal'nik distantsii puti, st. Levshino, Sverdlovskoy dorogi (for Orlov). 2. Starshiy inspektor Glavnogo upravleniya material'no-tekhnicheskogo obespecheniya, g. Novosibirsk (for Yakimov).

(Railroads--Track)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

ANISIMOVA, K.I.; YAKIMOV, P.A.

Obtaining gum from the aerial part of tragacanth-bearing milk vetches by the method of extraction. Trudy Bot. inst. Ser. 5 no.11:321-324 '63. (MIRA 16:10)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

SHTEYNBOK, S.D.; ANISIMOVA, K.I.; YAKIMOV, P.A.

Studying the conditions of tragacanth gum purification.
Trudy Bot. inst. Ser. 5 no.11:325-327 '63. (MIRA 16:10)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

YAKIMOV, P.A. (Moskva)

Power type hydraulic servo drive with computing attachment.
Avtom. i telem. 25 no.4:547-554 Ap '64. (MIRA 17:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2"

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Sulfite cellulose extracts. Their nature and methods of application. P. YAKIMOV. — *Vestnik* (Leather Ind. and Trade) 1928, No. 1, 24-5; No. 2/3, 93-4.—A survey is made of the work of Classen, Euler and Stiasny on the chem. nature of sulfite cellulose exts. and also the patent literature on their methods of prepn. and purification is described. There are 3 principal methods of prepn. of sulfite cellulose exts. which give products not inferior to quebracho exts: (1) pptn. with NaCl and HCl, (2) electrolysis and (3) satn. with gaseous Cl_2 and subsequent oxidation with HNO_3 or $HClO_3$. The last method gives the most satisfactory product although it is commercially unprofitable. Sulfite cellulose exts. prepd. according to the latter method give satisfactory leather even without the addn. of vegetable tanning materials. Sulfite cellulose exts. give most satisfactory results in combination with tanning materials of the catechol group. They can be used also in combination with Cr compds. B. MONSAROFF

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Dialysis of sulfite cellulose extracts. P. Yakimov and I. P. Tolskii. *Vestnik Koshevennoi Prom. Torgov.* 1929, 695–7; *Chem. Zentr.* 1931, I, 725; cf. *C. A.* 24, 6050, 26, 331.—By removing non-tannins (I) the dispersity of the ligno-tannins is lowered. A cellulose ext. contg tannin (II) 6.95, I 8.15, ash (III) 2.4 and glucose (IV) 1.5% contained after 36 hrs. dialysis II 6.3, I 2.8, III 1%, IV traces. Further dialysis reduces the II content also. The tanning power of the exts. increases by dialysis. Diln. of exts. increases the *p*H; concn., the acidity. More compds. which can be salted out are found after dialysis; a large part of I is salted out and must therefore be colloidal when in soln. The dialyzed exts. are very stable. Alfred Burger

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29

Tannin and gallic acid. Gosudarstvennyi Institut Vysshikh Davlenii (P. A. Yakimov and R. I. Tatarskaya, inventors). Russ. 21,075, Mar. 23, 1931. Tannin and gallic acid are prepd. from tanning exts. of the pyrogallic series in the form of tannates or gallates of alk. earths, which are decomposed by acid. The method is characterized by consecutive pptn. of the tannates of Ca, Mg, Ba and Sr and, after the removal of the ppt., pptn. of the gallates of Ca, Mg, Ba and Sr

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29

Tannin and gallic acid. P. A. YAKIMOV and R. I. TATARSKAYA. Russ. 28,280, Nov. 2, 1931; addn. to Russ. 24,075 (preceding abstr.). In the precipitation of tannin according to Russ. 24,075 the process is carried out fractionally by using hydroxides of alk. earth metals.

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OA

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Demineralizing solutions of tanning substances. P. A. Yakimov and R. I. Tatarskaya. Russ. 28,281, Jan. 10, 1932; addn. to Russ. 24,075 (second preceding abstr.). $CaSO_4$ present in solns. of tannates prepd. according to Russ. 24,075 is removed by treating the liquid with an amount of $Ba(OH)_2$ and $BaCl_2$ sufficient to replace the Ca with Ba, and adding oxalic acid to a slight acid reaction.

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Ca

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Obtaining a substitute for Canada balsam from the resin of Siberian fir. P. A. Yakimov, M. V. Veltistova and N. P. Pentin. *Bull. Applied Botany, Genetics, Plant Breeding* (U. S. S. R.) Ser. 3, No. 3, 155-67(1934); cf. *C. A.* **29**, 3508[6].—A product similar to Canada balsam had been extd. from Siberian fir. In its physicochem. properties the new product is similar to Canada balsam; it has the advantage of a lower m. p. (10° to 15° lower). The method of extn. is given. The bark of the fir contains as much as 10 to 16% resin. J. S. Joffe

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Ca

29

Methods of determining tannins by precipitating with gelatin. P. A. Yakimov and G. V. Kurshakova. *Bull. Applied Botany, Genetics, Plant Breeding* (U. S. S. R.) Ser. 3, No. 5, 283-9(1934).—A method of titrating tannin extts. with standard solns. of gelatin is described. It consists in adding gelatin to the unknown tannin soln. until no turbidity is noted. The same is done on prepd. standards of known tannin solns. and the figures are compared.

J. S. Joffe

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Substitutes for Canadian balsam from the galipot of Abies sibirica. P. A. Yakimov, M. V. Vel'tistiva and N. P. Pentin. *Lesokhimicheskaya Prom.* 3, No. 11, 8-15 (1934).—The galipot is dissolved in 150% ether, C_6H_6 or pine oil, filtered, and the filtrate washed with distd. H_2O and again filtered in a dust-free chamber through a Schott filter and transferred without access to air to a still that has been carefully washed with boiling distd. H_2O, alc. and benzene. Steam distn. is carried out so as to distil off first the benzene and then part of the turpentine. The balsam is then heated *in vacuo* to not over 100°. The product, m. 65-72°, is superior to Kahlbaum's balsam.

A. A. Boehtlingk

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29

CA

The preparation of tanning substances under high pressure. P. Yakimov and R. Tatarskaya. *Koksokhimo-Obsrnaya Prom. S. S. S. R.* 13, 345-9(1934).—Tanning substances can be obtained from humic acids from peat (and probably from brown coal) not only by the oxidation with inorg. oxidants (HNO_3, Cr_2O_3 + H_2SO_4), but also by direct oxidation with air at 20 atm. and 120°; or when air enriched with O_2 is used, 10 atm. pressure may be applied. Best tanning results are obtained at a max. p_H of 4.5 and medium concns. of the tanning substance. The peat tanning substances are irreversibly combined with the leather; this gives insignificant amounts of substances removable with H_2O. The leather tanned with these tannides is a pitch-black. A. A. Boehtlingk

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A-4

Bc

Needles of forest trees as a source of the anti-scorbutic vitamin. P. A. YAKIMOV, T. N. KUZNETSOVA-ZABUDNAYA, and A. A. RYABININ (Bull. Appl. Bot. Leningrad, 1934, Suppl. 67, 143—153).—The min. daily prophylactic dose for guinea-pigs of fresh spruce or pine needles is 1·0 g. NUTR. ABS. (m).

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The commercial plant badan (Saxifraga crassifolia). P. A. Yakimov, N. B. Koyalovich and O. V. Krusser. *J. Applied Chem.* (U. S. S. R.) 8, 654-72(1935); cf. C. A. 29, 5302[8].—The Siberian plant badan has been adapted to the northern part of European Russia. It contains 13-20% tannides and 10-18% arbutin glucosides which can be split into hydroquinone and glucose. The amount of arbutin increases with the age of the plant, while that of tannides remains approx. stationary. Seven references.

A. A. Boehtlingk

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3RD AND 4TH ORDERS

Willow bark in the Soviet Union. P. A. Yakimov, N. B. Kovalovich and G. Kurshakova. *Gerber* 61, 68-70, 75-6(1935).—See *C. A.* 29, 5301[9]. I. W. Perry

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820020-2

Tanning of wool by means of formaldehyde. P. A. Yakimov and A. N. Shivrina. *J. Applied Chem.* (U. S. S. R.) 14, 560-5(1941).—The preservation of industrial wool textiles, e. g., for *paper machines*, against bacterial degradation by treatment with CH_2O was investigated. The intercellular tissue of wool, much lower in N and in S than is keratin, is poorly resistant to hydrolysis, particularly by boiling H_2O and proteolytic enzymes; it is responsible for swelling of wool on immersion in H_2O. Samples of cloth were soaked in aq. solns. of CH_2O of known concns. for definite periods of time, washed, dried and tested for resistance to trypsin (4 g./l. in buffer soln. of pH 8.3-8.5) at 30-6°. Untreated samples were wholly destroyed within 2 days. Treatment with 12-15% CH_2O soln. for 24 hrs. gave up to 10 days' complete resistance. Treatment with 5% $K_2Cr_2O_7$ soln. before and after the CH_2O treatment gave complete resistance for 18 days, and the material was not completely destroyed in 39 days. Pretreatment with 1% CrF_3 soln., and treatment with 12% CH_2O for 24 hrs., followed by 0.5-hr. treatment in 1% CrF_3, gave results comparable with the above. Ba fluosilicate pre- and after-treatment also was in this range of effectiveness. The most stable products were obtained by treatment with natural tannin exts. (e. g., oak), then with $K_2Cr_2O_7$, and finally with CH_2O; this procedure produced wool having 30-50 times the resistance to decompn. that untreated wool has. Wetted wool cloth treated 4-6 hrs. at 45-60° with 40 g. gaseous CH_2O per cu. m. of treatment chamber, after treatment with $K_2Cr_2O_7$, gave results comparable with the better of treatments in soln.

G. M. Kosolapoff

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CA

Recovery of yeast protein from brewery wastes. P. A. Yakimov (Leningrad Univ.). *Pitchevoye Prom.* 1945, No. 2, 7-14.—Solids were recovered with a laundry-type centrifuge. The accepted standard of yeast-protein recovery (about 12% of the brewery waste) can be raised to 25-30%. Culture conditions in these expts. were: sugars in mash, not over 1%; N salts not over 0.0[illegible]; phosphates not over 0.04%; aeration 50-60 cu. m./hr./cu. m. mash; temp. not above 27-28°. J. F. S.

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Freeing vitamin-containing evergreen juices and extracts of bitterness.—P. A. Yakunov. U.S.S.R. 65,812, Feb. 28, 1946. Bitter glucosides in vitamin-contg. evergreen juices and exts. are decompd. by fermentation with lactic acid bacteria or with yeast. M. H.

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