"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

ACCESSION NR: AP4041020

ASSOCIATION: Leningradskiy nauchno-issledovatel'skiy institut radiatsionnoy gigieny* (Leningrad Scientific Research Institute of Radiation Hygiene)

SUBMITTED: 04Jun63 ATD PRESS: 3068 ENCL: 00

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Card 3/3

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BUGORKOV, A.S.

Attachment to an AI-100 analyzer for automatic recording of spectra. Prib. i tekh. eksp. 9 no.5:192-193 S-O '64. (MIRA 17:12)

1. Leningradskiy nauchno-issledovatel'skiy institut radiatsionnoy gigiyeny.

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BUGORKOV, P.

Staff operations of a tank unit in offensive warfare. No 2.
Tankist, No 12, 1948.

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HUGONKOV, P.

The role of self-propelled artillery units in the anti-tank defense reserves. No 5. Tankist No 12, 1948.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOV, S.S.

120-4-3/35

AUTHORS: Bugorkov, S.S., Malkin, L.Z., Petrzhak, K.A., Yakovlev, V.A. and Yakunin, M.I.

TITLE: Ionisation Chambers for Alpha Particle Counting (Ionizatsionnye kamery dlya scheta al'fa-chastits)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4, pp. 16 - 19 (USSR)

ABSTRACT: The construction and properties of 5 ionisation chambers for alpha particle counting are described.
No.1: A universal camera for alpha particles emitted within a solid angle of 2π (Fig.1). This camera is used for measurements on alpha-active materials deposited on one or both sides of a thin plate. It can also be used to estimate the degree of alpha-activisation of the inner surfaces of hemispherical platinum cups after various chemical procedures.
No.2: A camera for measurements in a solid angle which is less than, or equal to, 2π (Fig.4).
No.3: A camera for measuring alpha activities of liquids (Fig.5).
No.4: A camera with a solid angle (0.01 - 0.001) x 2π (Fig.6).
No.5: An argon filled camera (Fig.7). This is used to measure intensities of the order of 2×10^5 counts/min and also

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120-4-3/35

Ionisation Chambers for Alpha Particle Counting.

in the measurement of alpha activity on a high beta background. Pressure of the argon is about 1 atm.
The mechanical design of the 5 chambers are shown in the figures quoted above.
There are 7 figures and 3 references, 1 of which is Slavic

ASSOCIATION: Khlopin Radiation Institute Ac.Sc. USSR: (Radiyevyy institut im. V.G. Khlopina AN SSSR)

SUBMITTED: September 26, 1956.

AVAILABLE: Library of Congress

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

Bu Gor Kov, S.S.

PHASE I BOOK EXPLOITATION SOV/3503

Akademiya nauk SSSR. Radiyevyy institut

Trudy, t. IX (Transactions of the Radium Institute, Academy of Sciences USSR, Vol. 9) Moscow, Izd-vo AN SSSR, 1959. 287 p. Errata slip inserted. 1,700 copies printed.

Ed.: N.A. Perfilov, Doctor of Physical and Mathematical Sciences; Ed. of Publishing House: G.M. Aron; Tech. Ed.: A.V. Smirnova.

PURPOSE: The volume is intended for physicists.

COVERAGE: The book represents volume 9 of the Transactions of the Radium Institute and contains the results of studies conducted at the Institute chiefly from 1955 to 1956. There are a number of articles dealing with the study of nuclear reactions occurring with particles of different energies ranging from several eV up to hundreds of MeV. Others treat different problems of the physics of neutrons. Results of studies of various neutron sources, neutron energy distribution in a moderator (water), and other problems connected with the theory of neutron interaction with matter are presented. The majority of the articles are concerned with problems of method. The authors provide a complete description of the construction of equipment and of the results of tests performed under laboratory conditions. No personalities are mentioned. References accompany individual articles.

Bak, M.A.; K.A. Petrzhak, and Yu.F. Romanov. Wall Effect in Ionization Chambers 192

Malkin, L.Z., K.A. Petrzhak, and V.A. Yakovlev. Study of the Effect of Alpha Particle Reflection on Measuring in a Chamber with a Solid Angle - 2π 207

Dogorkov, S.S., L.Z. Malkin, K.A. Petrzhak, V.A. Yakovlev, and M.I. Yakunin. Ionization Chambers for Alpha Particle Counting 214

Matviyenko, V.I. The Direct Method for Determining Low Radon Concentrations in the Air 229

Matviyenko, V.I. Distributions of Disintegrated Radon Products in Ampoules Filled With Powder and in Ampoules Without Filler 236

Rik, G.R., A.I. Rusanov, and S.I. Stepanov. The Photographic Effect of Slow Ions 238

Arkhipov, V.A. Accumulation of the Daughter Product in the Branch Decay of the Parent 250

Aglintsev, K.K., V.V. Mitrofanov, and V.V. Smirnov. Active Electronic Spectra in Air Equivalent Ionization Chambers 253

[illegible], G.M. Method of Measuring Half-Life of Short-Life Radioactive Elements 258

Perfilov, N.A., Ye. I. Brok [illegible], and N.N. [illegible]. Increasing the Sensitivity of a Particularly Fine-Grained Emulsion by the Dual Sensitizer Method 268

[illegible] Effect of Iodine on the Properties of a Particularly Fine-Grained Nuclear Emulsion [illegible]

[illegible] Preparation of Solutions Containing Bismuth for Filling Nuclear [illegible] [illegible]

[illegible] Multiplier for Ion Measurements [illegible]

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21(8)

AUTHORS: Bak, M. A., Bugorkov, S. S., Il'inskaya, T. A., Petrov, Yu. G., Petrzhak, K. A., Solntsev, V. M., Sorokina, A. V., Ushatskiy, V. N.

SOV/89-6-5-18/33

TITLE: The Yield of Ru^{103} and Ru^{106} in the Fission of U^{235} and Pu^{239} by Fast Neutrons (Vykhody Ru^{103} i Ru^{106} pri delenii U^{235} i Pu^{239} bystrymi neytronami)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 5, pp 577-578 (USSR)

ABSTRACT: The yields of Ru^{103} and Ru^{106} were determined by means of a relative measurement with respect to the Mo^{99}-yield. Uranium oxide (U^{235}-enrichment >90 %) and plutonium oxide were pressed in aluminum caskets. The latter were surrounded by a 1 mm thick Cd-sheet, and the whole was packed in a firmly closed aluminum cylinder. The cavities are filled with boron carbide (all-round thickness at least 2 cm). Two samples were made from uranium and 4 from plutonium, and were irradiated for 52.2 hours in a water-filled beam tube of the heavy-water reactor of the AN SSSR (AS USSR). The neutron spectrum is characterized by the ratio

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The Yield of Ru^{103} and Ru^{106} in the Fission of U^{235} and Pu^{239} by Fast Neutrons SOV/89-6-5-18/33

$E_n > 1.5$ Mev : $E_n > 2.5$ Mev = 4.0 ± 1.5. From the irradiated samples Ru and Mo was chemically separated, after which thin β-preparations (thickness < 20 μg/cm^2) were produced on an organic foil; their activity was measured by means of a 4π-counter. An aluminum filter of 3 mg/cm^2 thickness is attached, so that only the β-rays of Ru^{103} and Ru^{106} reach the counter. Determination of the absolute activity of Ru^{103} and Ru^{106} was carried out by means of further filtering and recording the absorption curves of these radiating bodies with the same numbers. The momentum values measured make it possible, from 2 equations with 2 unknown ratios to calculate the latter. Herefrom it is possible to calculate the absolute fractions. From the latter and from the measured absolute Mo^{99}-β-activity (which will be dealt with by a publication in the near future) it was possible to calculate the following yields:

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The Yield of Ru^{103} and Ru^{106} in the Fission of U^{235} and Pu^{239} by Fast Neutrons SOV/89-6-5-18/33

	Ru^{103}	Ru^{106}
$Pu^{239}(n,f)$	5.7 ± 1.0 %	4.6 ± 0.8 %
$U^{235}(n,f)$	3.2 ± 0.6 %	0.71 ± 0.12 %

There are 1 figure, 1 table, and 1 Soviet reference.

SUBMITTED: December 22, 1958

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BUGORKOV, S.S.; MALKIN, L.Z.; PETRZHAK, K.A.; YAKOVLEV, V.A.; YAKUNIN, M.I.

Ionization chambers for α-particle counting. Trudy Radiev.inst. AN SSSR 9:214-228 '59. (MIRA 14:6)
(Ionization chambers) (Alpha rays)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

ARON, P.M.; BUGORKOV, S.S.; PETRZHAK, K.A.; SOROKINA, A.V.

Radiochemical determination of the cross section of the $Al^{27}(n,\alpha)Na^{24}$ reaction at a neutron energy of 14.6 Mev. Atom.energ. 16 no. 4:370-372 Ap '64. (MIRA 17:5)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOV, S.S.

32286

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B104/B102

24.6600

AUTHORS: Petrzhak, K. A., Tolmachev, G. M., Ushatskiy, V. N., Bak, M. A., Blinova, N. I., Bugorkov, S. S., Moskal'kova, E. A., Gaipova, V. B., Petrov, Yu. G., Sorokina, A. V., Chernysheva, L. P., Shiryayeva, L. B.

TITLE: Yields of some fragments in the fission of U^{235}, U^{238}, and Pu^{239} by fission neutrons

SOURCE: Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik statey. Moscow, 1961, 217-223

TEXT: The authors determined the yield of Sr^{89}, Zr^{95}, Mo^{99}, Ag^{111}, Cd^{115}, and Ba^{140} in the fission of U^{235}, U^{238}, and Pu^{239} by fission neutrons. A U^{235}-enriched uranium plate arranged in the thermal column of a heavy-water reactor of the AS USSR served as neutron source. 300-mg tablets and 1-μg targets were produced from each substance to be fissioned. The fission events were recorded in a fission chamber during the entire irradiation period (Fig. 1). The fission fragment yields were determined from their

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Yields of some fragments in ...

β-activity. The absolute β-activity was measured by two standard instruments with end-window counters. These standard instruments were calibrated with preparations of the fission fragments to be studied which had been applied to a collodium film. The absolute β-activity of the standard preparations was determined either with a 4π-counter or with an end-window counter having a window thickness of 0.005 ± 0.001 mg/cm². Six to eight measurements were made in three to four tablets (Fig. 3). The determination error of the fragment yield was between 6 and 11%. The fragment yield is found to depend on the isotope mass number. There are 3 figures, 3 tables, and 7 references: 3 Soviet and 4 non-Soviet. The four references to English-language publications read as follows.

Engelkemeir, D., Novey T., Schover D.- Radiochemical Studies. The Fission Products. Book 3, div. IV, vol. 9, 1334 (1951); Radiochemical Studies: The Fission Products. Book 3, div. IV, vol. 9, Appendix B. 2003 (1951); Keller R., Steinberg E., Glendenin L., Phys. Rev., 94, 4, 969 (1954); Turkevich A., Niday J., Phys. Rev., 84, 1, 52, (1951).

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

PETRZHAK, K.A.; TOLMACHEV, G.M.; USHATSKIY, V.N.; BAK, M.A.; BLINOVA, N.I.; BUGORKOV, S.S.; MOSKAL'KOVA, E.A.; OSIPOVA, V.V.; PETROV, Yu.G.; SOROKINA, A.V.; CHERNYSHEVA, L.P.; SHIRYAYEVA, L.V.

[Yields of certain fragments in U^{235}, U^{238}, and Pu^{239} fission by neutrons] Vykhody nekotorykh oskolkov pri delenii U^{235}, U^{238} i Pu^{239} neitronami deleniia. Moskva, Glav. upr. po ispol'zovaniiu atomnoi energii, 1960. 14 p. (MIRA 17:2)

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BUGORKOVA, A. A.

PA 65/49T27

USSR/Chemistry - Heterocyclic Compounds
Furan, Tetrahydro-

Apr 49

"Contact Conversion of Furanidine, Pyrrolidine, and Thiophane, XXII," Yu. K. Yur'yev, A. A. Bugorkova, Moscow Ord of Lenin State U imeni M. V. Lomonosov, Lab of Org Chem imeni Acad N. D. Zelinskiy, 3½ pp

"Zhur Obshch Khim" Vol XIX, No 4, pp 720-3.

Complete hybrids of these five-membered heterocyclic compounds (in similar manner to furan, pyrrole, and thiophene) undergo conversion with increased temperatures. Submitted 31 Jan 48.

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BUGORKOVA, A. A.

BUGORKOVA, A. A. - "Influence of Structure of Unstaurated Compounds on the Reaction of Rhodium Plating." Sub 29 Dec 52, All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

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BUGORKOVA, A.A.

1/2

USSR

Thiocyanation of unsaturated compounds. I. Thiocyanation of unsaturated hydrocarbons and silicohydrocarbons. A. A. Bugorkova, L. N. Petrova, and V. M. Rodionov. *Zhur. Obshchei Khim.* 23, 1808-13(1953).—The thiocyanation reaction differs from halogen addn. by its very much greater selectivity. It permits detn. of unsatd. links in cases which give rise to side reactions in bromination (silicohydrocarbons and bicyclic terpenes). For quant. detn. of double bonds the thiocyanation is limited to substances in which the reaction is fairly rapid (24 hrs. or less). It is not satisfactory for compds. contg. a double bond between primary and secondary C atoms. In limonene, biallyl, and 2,-10-dimethyldodecadiene the addn. of $(CNS)_2$ to 1 double bond hinders the next step of addn. The following list of thiocyanations was obtained by the use of $(CNS)_2$ soln. in AcOH prepd. by reaction of Br on $Pb(CNS)_2$ in AcOH. The following percentages of the theoretical thiocyanate number were obtained 5 min., 1 hr., and 24 hrs. after mixing the components: α-pinene, 99.7, 102.8, 157.5; β-pinene, 99.9, 103.7, 143.6; Δ^3-carene, 97.4, 124.8, 135.8; cyclohexene, 12.9, 49.05, 96.9; 1-heptene, 12.4, 36.8, 55.0; 4,4-dimethyl-1-pentene, 4.1, 23.0, 49.4; limonene, 30.3, 50.4, 87.7 (95.8 after 4 days); biallyl, 0, 13.3, 54.0 (78 in 7 days); 2,-10-dimethyldodecadiene, 5.9, 31.1, 67.6 (84 in 3 days). Biallyl gave after 24 hrs. of reaction an oil, whose compn. was $C_8H_{10}S_2N_2$; after 1 week of reaction a yellowish $C_{10}H_{10}S_4N_4$, decomp. 167–9° (from $CHCl_3$), was obtained in unstated yield. The thiocyanation of silicohydrocarbons gave the following percentages (5 min., 1 hr., 1 day, resp.): $Me_3SiCH_2CH:CH_2$, 93.3, 93.9, —; $Et_3SiCH_2CH:CH_2$, 96.4, 96.4, —; $Pr_3SiCH_2CH:CH_2$, 92.2, 97.3, —; $Et_3SiCH_2CH_2CH:CH_2$, 97.2, 99.3, —; $MeSiH(CH_2CH:CH_2)_2$, 76.8, 93.7, —; $MeSi(CH_2CH:CH_2)_3$, 81.6, 95.0, —; $Et_2SiCH_2CH_2CH:CH_2$, 0.9, 37.7, 99.6; $Et_3SiCH_2CH_2CH_2CH:CH_2$, 5.2, 31.2, 93.0; $Me_2PhSiCH_2CH:CMeCH_2CH:CH_2$, 13.8, 24.1, 96.2. II. The influence of oxygen-bearing functional groups on the thiocyanation reaction. *Ibid.* 1815-22.—The presence of an O-bearing group (OH, CHO, COR, or CO_2H) lowers the rate of addn. of $(CNS)_2$ to a double bond. Adjacent location of the O-bearing group almost stops the addn., but a more remote location shows a much smaller influence. Addn. of $(CNS)_2$ to unsatd. ketones is complicated by addn. to the enolic forms of the ketones. The following thiocyanate numbers (in percent thiocyanation) are given for the various compds. [illegible] min., 1 hr., and 1 day of reaction: $CH_2:CHCH_2OH$ [illegible], 9.5, 19.4; $PhCH:CHCH_2OH$, 1.6, 6.7, 19.3; $MeCH(OH)CH_2CH:CH_2$, 1.4, 10.5, 60.2; $HOCH(CH_2CH:CH_2)_2$, 1.2, 11.45, 54.2; citronellol, 93.2, 99.6, 100.1; geraniol, 49.3, 50.8, 51.7 (addn. takes place at 1 double bond; calcd. on this basis the values are 92.6, 101.7, 103.4); $PhCH:CHCHO$, 0, 0, 0; $PhCH:CAmCHO$, 0, 0, 0; p-iso-$PrC_6H_4CH:CMeCHO$, 0, 0, 1.4; 2,6-dimethyl-3-hepten-1-al, 0, 2.2, 20.2; citronellal, 85, 100, 100.2; citral, 35.8, 50.2, 51.8; (over)

Vsesoyuznyy Nauchno-issledovatel'skiy intitut sinteticheskikh i matural'nykh dushistykh veshchestv.

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A.A. Bugorkova.

$C_4H_9CH:CHCO_2H$, 0, 0, 1.8; $PhCH:CHCO_2H$, 0, 0, 0; $C_4H_9CH:CHCO_2Me$, 0, 0, 1.0; $CH_2:CHCN$, 0, 0, 0; $CH_2:CHCH_2CO_2H$, 1.2, 2.4, 6.9; 2-octahydronaphthylacetic acid, —, 2.2, 9.2; $CH_2:CHCH_2CH_2CO_2H$, 0.7, 5.7, 53.2; citronellic acid, 87.5, 95.5, 98.4; geranic acid, 30.1, 43.0, 50.0; geranic acid nitrile, 31.7, 47.0, 50.9; petroselinic acid, 34.6, 30.8, 99.4; mesityl oxide, 2.2, 3.2, 14.3; 2-methyl-4-hepten-6-one, 1.8, 3.5, 6.4; $PhCH:CHAc$, 0, 0, 5.7; β-ionone, 0, 4.0, 22.7 (addn. at one double bond only); methylionone, 6.4, 15.1, 35.2 (addn. at one double bond only); iso-methylionone, 5.2, 11.5, 24.5 (addn. at 1 double bond); isopulegone, 10.0, 31.0, 96.5; α-ionone, 0, 1.7, 6.2 (addn. at 1 double bond); carvone, 2.9, 12.6, 58.6 (addn. at 1 double bond); 6-methyl-5-hepten-2-one 102, 170, 177.2; $CH_2:CHCH_2CH_2Ac$, 5.8, 26.2, 110.1; pseudoionone, 98.5, 103.1, 108.2 (addn. at 1 double bond); iso-methylpseudoionone ($Me_2C:CHCH_2CH_2CMe:CHCH:CMeAc$), 99, 102.1, 110.2; $CH_2:CHCH_2OH$, 0.98, 9.56, 19.47; $PhCH:CHCH_2OH$, 1.57, 0.7, 19.33. Mixts. of geraniol and citronellol can be analyzed by detn. of Br no. and thiocyanate no. after running the reactions for 1 hr.; the % citronellol (100e −208x)/104, where e is Br no. of the mixt., x = % geraniol and 104 is the Br no. of citronellol; the difference between the Br no. and thiocyanate no. (A) is given by x = 100A/104. III. Thiocyanation of the double bond of a side-chain of methoxy- and methylenedioxy [illegible] of the aromatic series. *Ibid.* 1822–5.—Introduction [illegible] or CH_2O_2 group into an aromatic ring [illegible] thiocyanation of a double bond in a side ch[illegible] [illegible]ated with the double bond of the arom[illegible] The following degrees of thiocyanation were [illegible] hr., and 24 hrs. (cf. preceding abstr.): $PhCH:CHCH$ [illegible] 2.4, 58.3; $PhCH:CHMe$, 2.3, 7.7, 59.0; [illegible] 99.4, 100.2 (the product was isolated in this [illegible] formula was found to be $C_{12}H_{12}OS_2N_2$); safrole, [illegible] 82.6; isosaffrole, 99.9, 100.0, —; eugenol, [illegible] isoeugenol, 98.3, 99.8, 101.0; $PhCH:CHAc$, [illegible] —, —, —; p-$MeOC_6H_4CH:CHAc$, 2.4, 20.7, 100; $PhCH:CHCO_2H$, [illegible] —, —, —; p-$MeOC_6H_4CO_2H$, —, 3.8, 34.1; [illegible] acrylic acid, —, 2.1, 18.0. The following method for analysis of mixts. of isoeugenol and isosaffrole or anethole is suggested: the sample (0.1 g.) is treated wi[illegible] soln. and after 5 min. the mixt. is treated with [illegible] 10% KI and the liberated iodine is titrated with $Na_2S_2O_3$. The percent (A) of isoeugenol, isosaffrole, or anethole is [illegible] $A = 80(a-b)/sP$, where a is the vol. of 0.1N $Na_2S_2O_3$ used in titration of a blank run, b the vol. used for titration of the mixt., s is the wt. of the sample, and P is the alcl. thiocyanate no. Thus saffrole-isosaffrole and eugenol-isoeugenol mixts. can be analyzed. G. M. Kosolapoff

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BUGORKOVA, A.A.; PETROVA, L.N.; RODIONOV, V.M.

Thiocyanation of unsaturated compounds. Report No.2: Influence of oxygen-bearing functional groups on the thiocyanation reaction. Trudy VNIISNDV no.2:68-69 '54. (MLRA 10:7)
(Functional groups) (Thiocyanation)

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BUGORKOVA, A.A.; PETROVA, L.N.; RODIONOV, V.M.

Thiocyanation of unsaturated compounds. Report No.3: Thiocyanation of the double-bond of a side-chain of methoxy and methylenedioxy compounds of the aromatic series. Trudy VNIISNDV no.2:70 '54. (MIRA 10:7)

(Eugenol) (Safrole) (Thiocyanation)

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BUGORKOVA, A.A.

YELISEYEVA, V.N.; BUGORKOVA, A.A.

Increasing the stability of cyclamen aldehydes. Trudy VNIISNDV no.2:93-94 '54. (MIRA 10:7)

(Hydrocinnamaldehyde)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOVA, N. N.

Reactivity and molecular optical properties of alkenylsilanes. A. D. Petrov, Yu. P. Egorov, V. F. Mironov, G. I. Nikishin, and A. A. Bugorkova. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1956, 49-53 (Engl. translation).—See *C.A.* 50, 8327g.

B. M. R.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOVA, A.A.; PETROVA, L.N.; RODIONOV, V.M.

Thiocyanation of unsaturated compounds. Report No.1. Thiocyanation of unsaturated hydrocarbons and silicohydrocarbons. Trudy VNIISEDV no.2:66-67 '54. (MLRA 10:7)
(Hydrocarbons) (Silicon organic compounds) (Thiocyanation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOVA, A. A.

USSR/Chemistry - Reaction processes

Card 1/2 Pub. 40 - 11/25

Authors : Petrov, A. D.; Yegorov, Yu. P.; Mironov, V. F.; Nikishin, G. I.; and Bugorkova, A. A.

Title : Reactivity and the molecular-optical properties of alkenylsilanes

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 50-55, Jan 1956

Abstract : The existence of a parallelism between the rates of thiocyanogen additions and the spectral line intensity was experimentally established for a majority of alkenylsilanes of various structure. It was found that allylsilanes and alkenylsilanes with a ternary double bond are characterized by very high activity of the double bonds toward addition reactions and also by very high spectral line intensity, infrared absorption bands as well as by the presence of

Institution : Acad. of Sc., USSR, Inst. of Organ. Chem. im. N. D. Zelinskiy

Submitted : March 18, 1955

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

Card 2/2 Pub. 40 - 11/25

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 50-55, Jan 1956

Abstract : an exaltation of the molecular refraction. The connection between the alkenylsilane characteristics and the $\sigma - \pi$ conjugations is explained. The causes for the changes in the spectral line intensity values of double bonds are discussed. Twenty references: 16 USSR, 1 Swedish, 1 Eng., 1 Australian and 1 USA (1946-1955). Tables; graphs.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOVA, A.A.; PETROVA, L.N.; POLYAKOVA, K.S.; MELESHKINA, G.V.

Quantitative determination of α, β -unsaturated aliphatic acids. Trudy VNIISNDV no.4:73-76 '58. (MIRA 12:5)
(Unsaturated compounds)
(Acids, Fatty)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOVA, A.A.; PETROVA, A.N.; NOVIKOVA, Ye.N.

Detection of chlorine traces in benzyl and phenylethyl alcohols. Trudy VNIISNDV no.4:154-156 '58. (MIRA 12:5)
(Chlorine--Analysis) (Alcohols)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORKOVA, N.A.

CHEGODAYEV, D.D.; BUGORKOVA, N.A.; KUZNETSOVA, A.A.; YAVZINA, N.Ye.

On the nature of spherulites in polytrifluorochloroethylene [with summary in English. Zhur.fiz.khim. 31 no.9:2061-2065 S '57. (MIRA 11:1)

(Ethylene) (Spherulites)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

5(4) SOV/76-33-2-4/45

AUTHORS: Chegodayev, D. D., Bugorkova, N. A.

TITLE: On the Crystalline State of Polymers (O kristallicheskom sostoyanii polimerov). II. The Crystallization of Polymers in the Process of Film Formation (II. Kristallizatsiya polimerov v protsesse plenkoobrazovaniya)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2, pp 262 - 270 (USSR)

ABSTRACT: The assumption that a crystallization of polymers by evaporation of the solvent is equivalent to a slow cooling of the melt (Ref 1) is refuted in this paper. The experiments were carried out using ftorlon, a fluorine-containing crystalline copolymer (M= 60000 - 120000), as well as polytrifluorochloroethylene (ftoroplast-3) polytetrafluoroethylene (ftoroplast-4), and high and low-pressure polyethylenes. The ftorlon synthesis was developed in the NIIPP Laboratory under the direction of L. V. Chereshkevich and S. G. Malkevich. In order to produce multi-layer (100μ strong) polymer films various solvent mixtures were used. The swell rate of the films was measured in acetone vapor at 20±0.2°C

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

using a quartz balance (Table). The porosity of the film was tested on ftorlon with nitric acid, since this wets the polymer well but does not dissolve it (Table). The polymer films (ftorlon, high and low pressure polyethylene) were obtained by pouring the solution onto water and drying the films which formed; the films were then studied under the electron microscope (Figs 2-4). The RMM-30 tensile-test machine was used to test mechanically the ftoroplast-3 and ftoroplast-4 (Figs 5-9). It was found that in film formation from solutions of polymers at lower temperatures a coarse crystalline structure forms in which amorphous sections are found in a tension condition and differ in fragility. These films possess a small degree of crystallization, poor mechanical properties, are unstable, swell quickly and strongly, and possess a high penetrability. These differ from polymer films which are obtained by a slow cooling of the melt and possess more positive properties. Because of the mentioned amorphous sections in the polymers their spheroliths do not have a continuous crystalline structure and exhibit a relatively small degree of crystalli-

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

On the Crystalline State of Polymers. II. The Crystallization of Polymers in the Process of Film Formation SOV/76-33-2-4/45

zation. Under the electron microscope the crystallization shows a thickening and wrinkling of the film. An estimation of the size of the crystallite and the vitrification temperature of the amorphic polymer points can be made using the expansion curves of the polymers. The vitrification temperature of the amorphous sections of ftoroplast-3 was determined by I. A. Maygel'dinov using the elasticity modulus (Ref 11). Thanks are expressed to T. N. Sarminskaya and G. S. Rubinson in closing. There are 9 figures, 1 table, and 13 references, 7 of which are Soviet.

ASSOCIATION: Institut polimerizatsionnykh plastmass Leningrad (Institute for Polymerization Plastics, Leningrad)

SUBMITTED: April 20, 1957

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

5 (2)

AUTHORS: Bugorkova-Zelenetskaya, A. A., Petrova, L. N. SOV/75-14-3-28/29

TITLE: Determination of Halogen in Halogen-organic Compounds (K voprosu ob opredelenii galoida v galoidorganicheskikh soyedineniyakh)

PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 381-382 (USSR)

ABSTRACT: The method of A. K. Ruzhentseva and V. V. Kolpakova (Ref 5) was investigated, according to which chloro-substituted organic compounds are reduced by nickel-skeleton catalyst in alkaline solution. Analysis errors were found in the determination of chlorine in aliphatic chloro-substituted acids (7-Cl-heptanoic acid, 9-Cl-nonanoic acid) as well as in benzal chloride and cuminal chloride, if water with ethyl alcohol was used as solvent. The results could however be improved by using higher boiling alcohols (ethylene glycol). As the reaction was assumed to be to a lesser degree a reduction by hydrogen than a saponification by alkali the experiments were continued with 0.5-n potassium lye in a 50 % solution of ethylene glycol in water and, as can be seen in table 2, exact analyses were obtained. The method is however not

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Determination of Halogen in Halogen-organic Compounds SOV/75-14-3-28/29

applicable to all organic chlorine compounds. In chloro benzene, for instance, the chlorine can be determined only by reduction with hydrogen (on the nickel catalyst). There are 2 tables and 6 references, 3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv, Moskva (All-Union Scientific Research Institute of Synthetic and Natural Perfumes, Moscow)

SUBMITTED: May 22, 1958

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORSKIY, B.V.

Limits for the application of induced sublevel caving on one of the complex ore deposits. Trudy Alt. GMNII AN Kazakh. SSR 9:119-129 '60. (MIRA 14:6)

1. Kazgiprotsvetmet.
(Mining engineering)
(Nonferrous metals)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

AZOV, V.N.; BOL'SHAKOV, L.I.; BUGORSKIY, I.A.; RUBINSHTEYN, G.I.; FOKIN, D.F.; CHEREPANOVA, L.G.

Foreign trade of the U.S.S.R. in 1958; a survey. Vnesh.trog. 29 no.7:13-20 '59. (MIRA 12:11)

(Russia--Commerce)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

Bugorskiy, N.I.

BUGORSKIY, N.I., nachal'nik.

Progressive work practice of a car inspection point. Torf.prom. 30 no.8:21-23 Ag '53. (MLRA 6:7)

1. Shaturskoye transportnoye upravleniye. (Peat industry)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGORSKIY, P.T.

Seminar on measuring equipment. Izm.tekh. no.4:61-62 Ap '62. (MIRA 15:4)

(Measuring instruments)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, L.A.

ALEKSEYENKO, V.I.; BUGOSLAVSKAYA, L.A.; MISHUSTIN, I.U.

Compatibility as a basic factor in adhesion of high molecular substances. Kauch. i rez. 16 no.8:10-15 Ag '57. (MIRA 10:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut zameniteley kozhi i obuvnaya fabrika "Skorokhod."
(Adhesion) (Macromolecular compounds)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

Bugoslavskaya L.A.

ALEKSEYENKO, V.A.; BLAGOVESTOV, B.K.; BUGOSLAVSKAYA, L.A.; ZHUVIKINA, A.I.; ZAKHARCHENKO, P.I.; MISHUSTIN, I.U.; NISNEVICH, Ye.A.

Use of synthetic gutta-percha in the shoe industry. Leg.prom. 17 no.6:18-20 Je '57. (MLRA 10:8)

(Shoe industry) (Gutta-percha)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, L.A.

KOTEL'NIKOV, V.N., kand.tekhn.nauk; CHENTSOVA, K.I., kand.tekhn.nauk; ZYBIN, Yu.P., doktor tekhn.nauk; KOCHETKOVA, T.S.; ZAKATOVA, N.D., kand.tekhn.nauk; GUBAREV, A.S., kand.tekhn.nauk; SHVETSOVA, T.P., inzh.; VOROB'YEVA, A.A., kand.tekhn.nauk; MIRSKIY, V.I., inzh.; NISNEVICH, Ye.A., kand.tekhn.nauk; GOL'DSHTEYN, A.V., inzh.; KALASHNIKOVA, T.A., inzh.; SHUSTOROVICH, M.L., kand.tekhn.nauk; MOREKHODOV, G.A., inzh.; ZAKHAROV, S.R., retsenzent; BLAGOVESTOV, B.K., retsenzent; STRONGINA, O.P., retsenzent; SHMIDT, M.I., retsenzent; ZUYEV, V.T., retsenzent; KOSAREV, M.I., retsenzent; STEPANOV, I.S., retsenzent; RAMM, S.N., retsenzent; PEVZNER, B.M., retsenzent; VEYNBERG, I.A., retsenzent; TURBIN, A.S., retsenzent, SMIRNOVA, Ye.V., retsenzent; BUGOSLAVSKAYA, L.A., retsenzent; GAMOVA, A.S., retsenzent; KHANIN, N.M., retsenzent; MURVANIDZE, D.S., red.; PLEMYANNIKOV, M.N., red.; GRACHEVA, A.V., red.; MEDVEDEV, L.Ya., tekhn.red.

[Shoemaker's handbook] Spravochnik obuvshchika. Vol.1. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl. 1958. 540 p. (MIRA 12:4)

1.Gosudarstvennaya Ordena Lenina i Ordena Trudovogo Krasnogo Znameni obuvnaya fabrika "Skorokhod" imeni Ya.Kalinina (for Zakharov, Blagovestov, Strongina, Shmidt, Zuyev, Kosarev, Stepanov, Ramm, Pevzner, Veynberg, Turbin, Smirnova, Bugoslavskaya, Gamova, Khanin).
(Shoe manufacture)

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BUGOSLAVSKAYA, L.A.

ALEKSEYENKO, V.I.; ~~BUGOSLAVSKAYA, L.A.~~; ZAKHARCHENKO, P.I.; KARAPETYAN, N.G.; MISHUSTIN, I.U.

Glue made from latexlike NT "nairite." Leg. prom. 18 no.1:23-25 Ja '58. (MIRA 11:2)

(Glue)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

ASTAPOVICH, I.S.; BRONSHTEN, V.A.; BUGOSLAVSKAYA, Ye.Ya.; BUGOSLAVSKAYA, N.Ya.; VSEKHSVYATSKIY, S.K.; MIKHAYLOV, A.A.; SIVKOV, S.I.; TER-OGANEZOV, V.T.; RAKHLIN, I.Ye., red.; NEGRIMOVSKAYA, R.A., tekhn. red.

[Solar eclipse of February 25, 1952, and its observation] Solnechnoe zatmenie 25 fevralia 1952 g. i ego nabliudenie. Sost. I.S.Astapovich i dr. Pod red. A.A.Mikhailova. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1951. 175 p. (MIRA 15:4)

1. Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. 2. Chlen-korrespondent Akademii nauk SSSR (for Mikhaylov).
(Eclipses, Solar--1952)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, M. Ya.

PHASE I BOOK EXPLOITATION SOV/5031

Mikhaylov, A. A., ed., Corresponding Member, Academy of Sciences USSR

Solnechnyye zatmeniya i ikh nablyudeniya (Observations of Solar Eclipses) Moscow, Fizmatgiz, 1960. 238 p. 12,000 copies printed.

Compilers: (Title page): V. A. Bronshten, Ye. Ya. Bugoslavskaya, M. Ya. Bugoslavskaya, S. K. Vsekhsvyatskiy, M. M. Dagayev, M. M. Lepskiy, A. A. Mikhaylov, S. I. Sivkov and V. T. Ter-Oganezov.

Sponsoring Agency: Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. Ed.: I. Ye. Rakhlin; Tech. Ed.: N. Ya. Murashova.

PURPOSE: This book is intended for student and amateur astronomers.

COVERAGE: This collection of articles on solar eclipse phenomena has been published to aid amateur astronomers in the observation of the eclipse of February 15, 1961. Individual articles discuss the mechanics of solar eclipses, photographic and photometric investigations of the corona, brightness distribution,

Card 1/5

Observations of Solar Eclipses SOV/5031

atmospheric optics, and actinometric and meteorological observations. A map showing the track of the total eclipse of February 15, 1961 is included and explained. No personalities are mentioned. There are 74 references, all Soviet.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

SCIENTIFIC OBSERVATION PROGRAMS AND INSTRUCTIONS FOR AMATEURS

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3. Photometry of the corona 155
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1. Study of brightness distribution in the sky 171 172

~~Card 4/5~~

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, T.V., dotsent (Khar'kov)

Clinical variations of Cheyne-Stokes respiration. Report No.1. Klin.med. 38 no.9:121-124 S '60. (MIRA 13:11)

1. Iz kafedry terapii No.2 (zav. - dotsent T.V. Bugoslavskaya) Ukrainskogo instituta usovershenstvovaniya vrachey (dir. - dotsnet I.I. Ovsiyenko).
(RESPIRATION)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, T.V., dots.; PRIKHOD'KO, G.M., dots; MANUYLOVA, M.I.
Khar'kov).

Effect of reserpine on the course of nephritis and on renal function during the disease. Kaz.med.zhur. no.1: 20-22 Ja-F'61 (MIRA 16:11)

1. Kafedra terapii No.2 (zav.-dots. T.V. Bugoslavskaya) Ukrainskogo instituta usovershenstvovaniya vrachey i 12-ya gorbol'nitsa (glavvrach - .I. Kirichenko).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, T.V., dotsent; ROM-BUGOSLAVSKAYA, Ye.S.

Diagnostic value of thrombophlebitis as a symptom of cancer. Sov.med. 25. 25 no.5:55-59 My '62. (MIRA 15:8)

1. Iz kafedry terapii No.2 (zav. - dotsent T.V.Bugoslavskaya) Ukrainskogo instituta usovershenstvovaniya vrachey i terapevticheskogo otdeleniya 32-y bol'nitsy mediko-sanitarnoy chasti Khar'kovskogo taktornogo zavoda (glavnyy vrach - kand.med.nauk I.S.Yefimov).
(THROMBOPHLEBITIS) (CANCER)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, T.V., dotsent; GREDITOR, Ye.M. (Khar'kov)

Kimmelstiel-Wilson syndrome. Vrach. delo no.9:20-23 S '61. (MIRA 14:12)

1. Kafedra terapii II (zav. - dotsent T.V.Bugoslavskaya) Ukrainskogo instituta usovershenstvovaniya vrachey i patologoanatomicheskogo otdeleniya (zav. - Ye.M.Greditor) 12-oy gorodskoy bol'nitsy.
(DIABETES—COMPLICATIONS AND SEQUELAE)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKAYA, Ye. Ya. DECEASED '60 1962/7

Astronomy

see 1LC

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKIY, V.M.

NIKITENKO, A. BUGOSLAVSKIY, V. VEDENEYEV, P.

Botany-Ecology

Significance and role of the overground portion in the life and developmentof an association of forest plants. Les. khoz. 5 no. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

1. BUGOSLAVSKIY, V. M.; VEDENEYEV, P. Kh.

2. USSR (600)

4. Chernigov Province - Reclamation of Land

7. Urgent problems of irrigation and afforestation in the Chernigov region of Poles'ye, Les i step', 14, No. 11, 1952.

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

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKIY, Ye. Ya., Prof.

"Technical Requirements and Principles Governing Automatic Coordinate-Measuring Machines," a report presented at the Conference of Commission on Astronomical Instruments Construction of the Astronomical Council, AS USSR, [illegible] Feb [illegible].

Sum. No. 1047, 31 Aug 56

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

MESHCHERYAKOV, I.T.; BUGOSLAVSKIY, Yu.K., otvetstvennyy redaktor; ORLOV, Ye.I., redaktor izdatel'stva; ANDREYEV, G.G., tekhnicheskiy redaktor

[Minimum requirements for the blastman in open cut coal mines] Tekhminimum dlia vzryvnika na ugol'nykh kar'erakh. Moskva, Ugletekhizdat, 1951. 133 p. [Microfilm] (MLRA 10:1)

(Coal mines and mining--Explosives)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKIY, YU. K.

Shatayev, M. G. Drill mechanics in coal mines; textbook. Moskva, Ugeletekhizat, 1952, 127 p. (54-18946)

TN279.B89

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOSLAVSKIY, Yu.K.

ALATORTSEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn. nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV, V.G., inzh.; VINNITSKIY, K.Ye., kand.tekhn.nauk; VLASOV, V.M., inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.; GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk [deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand. tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn. nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk; KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand. tekhn.nauk; MAZUROK, S.F., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G., inzh.; NIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.; POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.; RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kand. tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.; SOROKIN, V.I., inzh.; STASYUK, V.N., kand.tekhn.nauk; STAKHEVICH, Ye.B., inzh.; SUSHCHENKO, A.A., inzh.; TYUTIN, I.F., inzh.; TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand.tekhn.nauk; FURMANOV, B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor tekhn.nauk; TERPIGOREV, A.M., glavnyy red. [deceased];

(Continued on next card)

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ALATORTSEV, S.A.---(continued) Card 2.

KIT, I.K., zamestitel' glavnogo red.; SHESHKO, Ye.F., zamestitel' otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.N., red.; DIONIS'YEV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.; SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P., kand.tekhn.nauk, red.; KRIVSKIY, M.N., kand.tekhn.nauk, red.; LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH, A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SLAVUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYHOVSKIY, L.G., inzh., red.; FIDELEV, A.S., doktor tekhn.nauk, red.; SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'YAN, T.G., red. izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

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ALATORTSEV, S.A.---(continued) Card 3.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chleny glav. red.A.I.Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method] Razrabotka ugol'nykh mestorozhdenii otkrytym sposobom. Redkollegiia toma; N.V.Mel'nikov i dr. 1960. 625 p. (MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov).
(Coal mines and mining) (Strip mining)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

RZHEVSKIY, V.V., prof.,dokt.tekhn.nauk; BUYANOV,Yu.D., kand.tekhn.nauk; VASIL'YEV, Ye.I., kand.tekhn.nauk; DEMIN, A.M., kand.tekhn.nauk; KULESHOV, N.A., kand.tekhn.nauk; MEN'SHOV, B.G., kand.tekhn.nauk; NEVSKIY, V.N., kand.tekhn.nauk; POTAPOV, M.G., kand.tekhn.nauk; RODIONOV, L.Ye., kand.tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SUKHANOVA, Ye.M., kand.tekhn.nauk; YUMATOV, B.P., kand.tekhn.nauk; KHOKHRYAKOV, V.S., kand.tekhn.nauk; ALEKSANDROV, N.N., gornyy inzh.; ARISTOV, I.I., inzh.; BUGOSLAVSKIY, Yu.K., gornyy inzh.; DIDKOVSKIY, D.Z., inzh.; ONOTSKIY, M.I., inzh.; STAKHEVICH, Ye.B., inzh.; GEYMAN, L.M., red.izd-va; MAKSIMOVA, V.V., tekhn. red.; KONDRAT'YEVA, M.A., tekhn. red.

[Handbook for the strip-mine foreman] Spravochnik gornogo mastera kar'era. Pod red. V.V.Rzhevskogo. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 572 p. (MIRA 14:12)
(Strip mining)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

RUSSKIY, Izot Isaakovich, kand. tekhn. nauk; BUGOSLAVSKIY, Yu.K., inzh., retsenzent; BYKHOVSKAYA, S.N., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Spoil disposal in open-pit mines] Otval'noe khoziaistvo kar'erov. Moskva, Gosgortekhizdat, 1963. 186 p. (MIRA 16:6)

(Mine haulage)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

USKOV, A.A., red.; RZHEVSKIY, V.V., prof., doktor tekhn. nauk, red.; SOKOLOVSKIY, M.M., red.; MIKHAYLENKO, I.G., red.; BUGOSLAVSKIY, Yu.K., red.; SOBITSKIY, V.V., red.; VINITSKIY, K.Ye., red.; STAKHEVICH, Ye.B., red.; KENIS, S.I., red.; MERZON, A.S., red.; SITNIKOV, V.P., red.; SOPESHKO, N.F., red; BLAYVAS, M.S., red.

[Studies of the All-Union Scientific and Technical Conference on improving the equipment and technology of mining minerals by the open pit method] Materialy Vsesoiuznogo nauchno-tekhnicheskogo soveshchaniia po sovershenstvovaniiu tekhniki i tekhnologii razrabotki poleznykh iskopaemykh otkrytym sposobom. Moskva, Nedra, 1965. 285 p. (MIRA 18:6)

1. Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye po sovershenstvovaniyu tekhniki i tekhnologii razrabotki poleznykh iskopayemykh otkrytym sposobom, Cheremkhovo, 1964. 2. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for Rzhevskiy). 3. Glavnyy spetsialist Gosudarstvennogo komiteta tyazhelogo, energeticheskogo i transportnogo mashinostroeniya pri Gosplane SSSR (for Bugoslavskiy).

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L 26160-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(1)/EWP(v) DJ

ACC NR: AP6006351 (A) SOURCE CODE: UR/0413/66/000/002/0085/0085

AUTHORS: Tabachnikov, L. D.; Bugoslavskiy, Yu. K.; Kozin, Yu. V.; Grinshpun, L. Y.; Sukhotin, V. S.

ORG: none

27
B

TITLE: Device for automatic balancing of a hydraulic boom crane. Class 35, No. 178073

14 14

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 85

TOPIC TAGS: crane, construction equipment, hydraulic system

ABSTRACT: This Author Certificate describes a device for automatic balancing of a hydraulic boom crane. The device contains a counterweight which is movable, depending upon variation of loading. The counterweight is controlled by a pressure hydrocylinder which is linked with cylinder relays set on working elements of the crane. The cylinder relays measure the load and overturn moments. In the trunk line linking the relays with the pressure hydrocylinder of the counterweight there is a distributor valve giving reverse contact for counterweight control with obstruction of the working mechanisms of the crane in case of imbalance (see Fig.1).

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L 26160-66
ACC NR: AP6006351

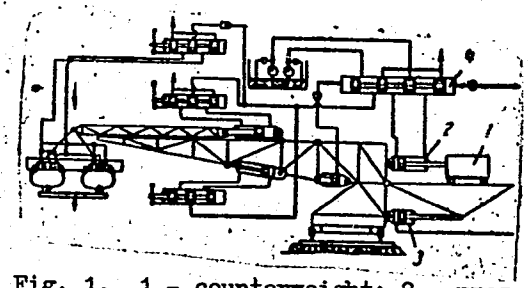

Fig. 1. 1 - counterweight; 2 - pressure hydrocylinder; 3 - cylinder relays; 4 - distributor valve.

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 04Sep63

Card 2/2 cc

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

SOV/124-58-1-1238

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 155 (USSR)

AUTHOR: Bugov, A. U.

TITLE: Contribution to the Stress Analysis of the Shaft Flanges of Large Hydraulic Turbines (K raschetu prochnosti flantsev valov krupnykh gidroturbin)

PERIODICAL: V sb.: Gidroturbostroyeniye, Nr 4, Moscow-Leningrad, Mashgiz, 1957, pp 233-245

ABSTRACT: An attempt is made to take into account the effect of the tensile stiffening of a flange connection due to the bolts. It was found that a thinning of the shaft wall does not evoke any increase in the flexural stresses in the wall at the point of its transition into the flange. The flexural stresses in the flange, however, do increase.

From the résumé

Card 1/1

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, A.U., inzh.

Calculation of the stress state of the ball lock body of high head hydraulic electric power plants. Energomashinostroenie 8 no.5:17-20 My '62. (MIRA 15:5)
(Hydraulic electric power stations--Design and construction)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUCOV, A.U.

precise calculation of the critical velocities of the rotor of a hydraulic turbine-generator unit using initial parameter techniques. Energomashinostroenie 10 no.1:36-10 N '64
(MIRA 18:2)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, A. U.

Calculating stresses and deformations of tight flanged joints of annular parts of hydraulic turbines. Probl. proch. v mashinostr. no.9:73-96 '62. (MIRA 15:10)

(Strains and stresses)
(Hydraulic turbines)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, A.U., inzh.; KLIMENCHENKO, T.V., inzh.; DMITRIYEV, L.A., inzh.

Expedient design of annular connecting flanges for hydraulic turnine rotors and standardization of their calculation. Energomashinostroienie 9 no.5:6-10 My '63. (MIRA 16:7)

(Hydraulic turbines) (Flanges)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, A.U., inzh.

Calculation of stresses in the caps and cylinders in hydraulic turbine runners linked by means of tight nonsymmetrical flange connections. Energomashinostroenie 10 no.1:6-10 Ja '64. (MIRA 17:4)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, A.U., inzh.

Strength of the components of annular flange connections experiencing simultaneous stretch and twist under conditions of increased bolt tightening efforts. [Trudy] LMZ no.10: 149-160 '64.

Calculation of the external bending moment of annular flange connections of rotors. Ibid.:199-204

(MIRA 18:12)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, A.U., inzh.; YAVITS, S.N., inzh.

Study of the stressed state of housings and flange connections of ball locks. [Trudy] LMZ no.10:191-198 '64. (MIRA 18:12)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOV, Yu.

Blinking of the stars. Nauka i zhizn' 23 no.2:63 F '56. (MLRA 9:5)

(Stars)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGOYENKO, S.

Effective method of highway landscaping. Avt.dor. 22 no.7:22 Jl '59. (MIRA 12:9)

(Roadside improvement)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGHARIU, I.

33

255

Bucharest, Farmacia, Vol X, No 5, May 62

1. "Complexometric Determination of Veronal," Prof Gh. [illegible], Pharm Gh. [illegible], Pharm T. [illegible], Pharm M. [illegible], Pharm Silviu [illegible], Pharm M. [illegible], Pharm [illegible] and Pharm Georgeta [illegible]. Work performed at the Analytical Chemistry Laboratory (Laboratorul de Chimie Analitică) of the School of Pharmacy (al Facultatii de Farmacie), Bucharest; English Summary; pp 257-261.

2. "Comparative Study of the Methods of Nicotine Determination [illegible]," Prof N. [illegible], Pharm Dr Gh [illegible], Pharm [illegible], Pharm L. [illegible] and Pharm T. [illegible]. Work performed at the Laboratory of Toxicology (Laboratorul de Toxicologie) of the School of Pharmacy (al Facultatii de Farmacie), Bucharest; pp 263-266.

3. "Study of Sunflower Oil Used in Injectable Oily Solutions (Note I)," Prof W. CIOCANEIA, Pharm Elena [illegible], Pharm A. [illegible], Pharm I. BUGHARIU, Pharm I. [illegible] and Pharm V. VILIPAS. Work performed at the Laboratory for Galenic Pharmacy (Laboratorul de Farmacie Galenica) of the School of Pharmacy (al Facultatii de Farmacie), Cluj; pp 267-275.

4. "The Identification, Determination and Extraction of Allantoin from Echium vulgare L. Plants," Conf S. CONSTANTINESCU, Pharm I. GHULI and Pharm Maria STANESCU. Work performed at the Pharmacognosy Laboratory (Laboratorul de Farmacognozie) of the School of Pharmacy (al Facultatii de Farmacie), Bucharest; English Summary; pp 277-282.

5. "Determination in Non-Aqueous Medium of the Aminopyrine and Veronal Content in 'Veropirin'," Pharm R. VASILIEV, Pharm Vera SCINTEIE and Pharm J. PROCHIER. Work performed at the Institute for the State Control of Drugs and Pharmaceutic Industry (Institutul pentru Controlul de Stat al Medicamentului si Cercetari Farmaceutice); English Summary; pp 231-237.

6. "Contribution to the Use of Tweens in the Drug Dispensing Pharmacy in the Clinics of Cluj," Pharm V. GEORGESCU, Pharm A. POPESCU and Pharm A. SZEKERNYES; English Summary; pp 289-295.

— 1/2 —

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGRAYEV, A.; LADIKOV, A.; ZABOLOTSKIY, K.; FILIPPOV, G., kand.ekonomicheskikh nauk

"Problems concerning the economy of grain receiving enterprises" by A.A. Borinevich. Reviewed by A. Bugraev and others. Muk.-elev. prom. 28 no.6:30-32 Je '62. (MIRA 15:7)

1. Moskovskoye oblastnoye upravleniye khleboproduktov (for Bugrayev). 2. Kiyevskoye upravleniye khleboproduktov (for Ladikov). 3. Rostovskoye upravleniye khleboproduktov (for Zabolotskiy). 4. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti (for Filippov).
(Grain elevators) (Borinevich, A.A.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGREYEV, I.

Improve credit and payment service to collective farms. Den. i kred. 12 no.6:42-45 D '54. (MIRA 8:4)
(Banks and banking) (Collective farms—Finance)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGREYEV, I.; ROSSIKHIN, V.

More attention to credit and payments to agriculture. Den.i kred. 13 no.6:15-19 Je '55. (MLRA 8:9)
(Agricultural credit)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGREYEV, I.

Business accounting at machine-tractor stations. Den. i kred. 14 no.3:31-36 Mr '56. (MLRA 9:7)
(Machine-tractor stations--Finance)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

IVANOVA, N. I.; BUGREYEVA, L. P.

Carotene jaundice as a cause of the erroneous diagnosis of Botkin's disease in children. Pediatriia no.6:59-61 '62. (MIRA 15:6)

1. Iz kafedry infektsionnykh detskikh bolezney (zav. A. T. Kuz'micheva) Leningradskogo pediatricheskogo meditsinskogo instituta (dir. Ye. P. Semenova)

(HEPATITIS, INFECTIOUS) (JAUNDICE) (CAROTENE)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

ARTAMONOV, B.P.; BUGREYEVA, Ye.V.; PETRUNIN, V.I.

Wide-range high frequency conductometer. Zhur. fiz. khim. 39 no.3:796-801 Mr '65. (MIRA 18:7)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BABAYEVA, A.G.; BUGRILOVA, R.S.

Problem of regenerating rat parotid glands. Biul. eksp. biol. i med. 51 no.5:92-94 My '61. (MIRA 14:8)

1. Iz laboratorii rosta i razvitiya (zav. - prof. L.D.Liozner) Instituta eksperimental'noy biologii (dir. - prof. I.N.Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR A.V.Lebedinskim.

(REGENERATION (BIOLOGY)) (PAROTID GLAND)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

38293 BUGRIM, N. AND SCHETININA, A.

K voprosy o formirovanii osnovnykh nervnykh stvolov verkhney konechnosti. Sbornik trudov (Arkhangelsk. med. in-t), vyp. 9, 1949, s.51-55. - Bibliogr: 16 nazv.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGRIM, N.A.;NOSOVITSKAYA, S.A.

Saponins in roots of Polemonium coeruleum L. Aptech. delo, Moskva 2 no.2:45-46 Mar-Apr 1953. (CLML 24:3)

1. Of the Laboratory of Pharmaceutic Technology, Khar'kov Scientific-Research Pharmaceutic Chemistry Institute (Director -- Docent M. A. Angarskaya).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

KOLESNIKOV, D.G.; BUGRIM, N.A.

Cardiac glycosides of Adonis vernalis. Med.prom. 14 no.2:19-21 F '60. (MIRA 12:4)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.
(CARDIAC GLYCOSIDES) (ADONIS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

KOLESNIKOV, D.G.; BUGRIM, N.A.

Cardiac glycosides of Adonis vernalis. Report No.2. Med. prom. 14 no.7:27-30 Je '60. (MIRA 13:8)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(ADONIS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGRIM, N. A., Cand Pharm Sci -- "~~Obtainment~~ Production and chemical study of ~~the~~ cardiac glycosides of Adonis vernalis. Mos, 1961. (Min of Health USSR). First Mos Order of Lenin Med Inst im Sechenov) (KL, 8-61, 267)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BOKOVA, T. N.

USSR/Chemistry - Alkaloids Apr 51

"Investigations on the Synthesis of a Number of Analogues of the Alkaloid Colchicine, II," T. F. Dankova (deceased), T. N. Bokova, N. A. Preobrazhenskiy; and A. Ye. Petrushenko, I. A. Il'shteyn, N. I. Shvetsov, Students, Moscow Inst of Fine Chem Tech

"Zhur Obshch Khim" Vol XXI, No 4, pp 787-800

To ascertain structure of colchicine and possibly find compds with simpler structure with colchicine-like action, synthesized the following, contg proved or assumed structural elements of colchicine: 4 derivs of α,β-diphenylethylamine, 2 derivs of

182T30

USSR/Chemistry - Alkaloids (Contd) Apr 51

α,γ-diphenylpropylamine, 2 derivs of β,δ-(diphenyl)-butylamine, 7 derivs of γ-keto-α,γ-diphenylpropylene.

182T30

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

KULESH, K.F.; KONEV, F.A. [Koniev, F.A.]; BUGRIM, N.A. [Buhrim, N.A.]; Prinimali uchastiye: LAPKINA, A.M.; GENDENSHTEYN, Ye.I.

Increasing the production of prepared drugs by lowering the number of extemporaneous prescriptions of pharmacies. Farmatsev. zhur. 18 no.5:3-7 '63. (MIRA 17:8)

1. Kharkovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

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KULESH, F.F.; [illegible], N.A.; [illegible], F.A.

Replacing of extemporaneous drugs with tablets. Apt. delo 14 no.1:19-25 Ja-F '65. (MIRA 18:10)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

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BUGRIM, S.

Remodelling semigas burners in shaft lime kilns. Stroi. mat. 2 no.11:32 N '56. (MLRA 10:2)

1. Glavnyy inzhener kirpichnogo zavoda "Intaugol'," Inta, Komi ASSR.

(Kilns)

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HUGRIM, S.F., inzh.

Obtaining high-strength silicate concrete on a base of mine waste rock. Shakht. stroi. 8 no.4:15-17 Ap'64 (MIRA 17:7)

1. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut.

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85162

S/139/60/000/005/012/031
E201/E191

11.4100

AUTHORS: Lyutyy, A.I., and Bugrim, Ye.D.

TITLE: The Effect of Sodium Vapour on the Intensity of Lines and the Degree of Ionization of Elements in an Acetylene--Air Flame

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, No. 5, pp 69-76

TEXT: The degree of ionization and its changes are frequently used to study the mutual interactions of elements in various devices used to excite emission spectra. The present authors studied the effect of easily ionizable Na vapours on the emission of Sr and Ca (case I) and of Cs and Rb (case II) atoms and ions in acetylene--air flames. In case I strontium and calcium were introduced into the flame in the form of atomized aqueous solutions of $Sr(NO_3)_2$ and $CaCl_2$. A burner is shown schematically in Fig. 1 and its modified form is given in Fig. 2. In the modified burner sodium vapours were pre-heated in order to avoid lowering of the flame temperature by cold sodium (such cooling affected strongly the results). The spectra were recorded

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The Effect of Sodium Vapour on the Intensity of Lines and the Degree of Ionization of Elements in an Acetylene--Air Flame

with a Zeiss glass spectrograph. Introduction of sodium vapours reduced strongly the emission intensity of Sr^+ ions (λ = 4216 and 4078 Å) without altering materially the intensity of atomic Sr (4742 and 4811 Å) and Ca (4227 Å), i.e. introduction of sodium vapours shifted the ionization equilibrium in the flame by reducing the number of Sr ions (Tables 1, 2). In case II a monochromator УМ-2 (UM-2) and a magnetoelectric mirror galvanometer М-21 (M-21) were employed. Caesium and rubidium were introduced into the flame by atomizing aqueous solutions of $CsBF_4$ and $RbNO_3$. Sodium vapours intensified emission by Cs and Rb (Table 3); this may be useful in spectroscopic analyses. A satisfactory theoretical explanation of the behaviour of Cs and Rb is given (the experimental and calculated results are compared in Tables 4 and 5).

Acknowledgements are made to V.S. Rossikhin, N.A. Nesterko and I.L. Tsikora for their advice.

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85162

S/139/60/000/005/012/031
E201/E191

The Effect of Sodium Vapour on the Intensity of Lines and the Degree of Ionization of Elements in an Acetylene--Air Flame

There are 2 figures, 5 tables and 6 references: 4 Soviet, 1 German and 1 international.

ASSOCIATION: Dnepropetrovskiy gosuniversitet imeni 300-letiya vossoyedineniya Ukrainy s Rossiyey (Dnepropetrovsk State University imeni 300-th Anniversary of Union between Ukraine and Russia)

SUBMITTED: November 9, 1959

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L 31511-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/WW/JG/RM
ACC NR: AP6013019 SOURCE CODE: UR/0051/66/020/004/0568/0575

AUTHOR: Bugrim, Ye. D.; Lyutyy, A. I.; Rossikhin, V. S.; Tsikora, I. L. 66 B

ORG: none

TITLE: Singularities in the excitation of the Swann bands of C_2 in vapor jets of metals and organic compounds

SOURCE: Optika i spektroskopiya, v. 20, no. 4, 1966, 568-575

TOPIC TAGS: carbon, band spectrum, chemiluminescence, vapor state, emission spectrum, excited electron state, relaxation process

ABSTRACT: This is a continuation of earlier work (Opt. i spektr. v. 15, 406, 1963) where it was observed that the spectra of glowing metal vapor show a clearly pronounced chemiluminescence character in the presence of the vapor of carbon-containing compounds (CCl_4, $ChCl_3$, CHI_3), and the observation of the Swann band system of C_2. The purpose of the present investigation was to study in greater detail the spectrum of the C_2 molecule excited upon coalescence of vapors of several metals and CCl_4. The apparatus used for the vapor production was described in the earlier paper. The emission spectrum of the C_2 molecule was obtained by means of a photoelectric setup based on a monochromator and photomultiplier. To

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L 31511-66

ACC NR: AP6013019

study the singularities of the C_2 spectrum, the zone of the reaction of Li vapor and CCl_4 was used, and it was found that the main features of the C_2 spectrum in the metal-vapor reaction zone was an anomalous distribution of the intensities among the edges of the Swann system bands. The results have shown that variation of the temperature leads to a change in the population of the vibrational levels of the $d^3\Pi_g$ electron state, and the character of the population of these levels was established for excitation of the C_2 molecule in reactions of Li, K, Na, Cs, and Mg with CCl_4. An analysis of the relative intensities of the spectra and of the relative populations of the first vibrational levels in the $d^3\Pi_g$ state indicates that the experimental results can be reconciled with the theory of vibrational relaxation in the excited electron states. Orig. art. has: 4 figures, 3 formulas, and 3 tables.

SUB CODE: 20/ SUBM DATE: 22Dec64/ ORIG REF: 008/ OTH REF: 007

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

BUGRIM, Ye.D.; LYUTYY, A.I.; ROSSIKHIN, V.S.

Appearance of the green spectral bands of the MgH molecule in a flame. Opt. i spektr. 10 no.6:804-806 Je '61. (MIRA 14:8)
(Magnesium hydride--Spectra)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307320011-4

L 46134-66 EWT(1)/EEC(k)-2/T/EWP(k) LJP(c) WG/RTW/AT

ACC NR: AP6025950 SOURCE CODE: UR/0051/66/021/001/0027/0032

AUTHOR: Bugrim, Ye. D.; Lyutyy, A. I.; Rossikhin, V. S.

ORG: none

TITLE: Oscillatory relaxation of diatomic molecules in the excited electron state

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 27-32

TOPIC TAGS: excited electron state, diatomic molecule, molecular property, molecular structure, molecular spectrum, excitation energy, excitation spectrum, quantum oscillation, shock wave oscillation

ABSTRACT: The process of oscillatory relaxation in diatomic molecules in an excited state is considered when these molecules constitute an impurity in a carrier gas. The expressions for the determination of energy exchange efficiency are derived based on the observed values of the population of the unstable levels. A diatomic molecule may be considered to be an oscillator. If diatomic molecules are contained as a small admixture in a carrier gas, the oscillatory relaxation takes place under isothermic conditions. This phenomenon can be described by the differential equation

$$\frac{dX_{v'}(t)}{dt} = K\{v'e^{-\theta}X_{v'-1} - [v' + (v'+1)e^{-\theta}]X_{v'} + (v'+1)X_{v'+1}\} - A^{*}X_{v'}, \qquad (1)$$

$$v' = 0, 1, 2 \ldots,$$

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ACC NR: AP6025950

where $X_{v'}(t)$ is the share of the oscillators at the unstable level having the quantum number v'; $\theta = h\nu/kT$; ν is the oscillation frequency; T is the gas temperature; K is a constant determined by the properties of the carrier gas, its temperature T, and the efficiency of the interactions between the oscillating molecules and the carrier gas particles; A^* is the sum of absolute probabilities of all electron transitions from the given level. The solution of equation (1) is given by

$$X_{v'}(t) = \frac{1}{v'!} \frac{\partial^{v'} G(z, t)}{\partial z^{v'}} \bigg|_{z=0} e^{-A^* t}, \qquad (2)$$

where

$$G(z, t) = \frac{1 - e^{\theta}}{(z - e^{\theta}) - (z - 1) e^{-\tau}} G_0 \left\{ \frac{(z - 1) e^{-\tau} e^{\theta} - (z - e^{\theta})}{(z - 1) e^{-\tau} - (z - e^{\theta})} \right\},$$

$$\tau = Kt(1 - e^{-\theta}),$$

and G_0 is an arbitrary function determined from the initial conditions. Expression (2) represents the process of oscillatory relaxation of a system of harmonic oscillators in an excited state of electrons. If, following the act of molecule generation at a certain unstable level of excitation, a process of oscillatory relaxation takes place and is accompanied by the emission of electron-oscillatory bands, the change of the unstable level population with respect to time may be inferred from the intensity

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ACC NR: AP6025950

of the corresponding emissions, measured at different times after the initial reaction. The authors illustrate their findings by considering the oscillatory relaxation following the generation of a diatomic molecule on the *m*-th electron excitation level. Orig. art. has: 1 figure, 16 formulas.

SUB CODE: 20/ SUBM DATE: 22Dec64/ ORIG REF: 004/ OTH REF: 007

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