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BUTUZOVA, O.V.

Role of the root system of trees in the formation of microrelief. Pochvovedenie no.4:21-30 Ap '62. (MIRA 15:4)

1. TSentral'nyy muzey pochvovedeniya imeni V.V.Dokuchayeva.
(Forest soils) (Roots (Botany))

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTUZOVA, O.V.

Characteristics of the soils developed on clayey topsoils in Perm Province. Pochvovedenie no.1:38-48 Ja '64.
(MIRA 17:3)

1. TSentral'nyy muzey pochvovedeniya imeni V.V. Dokuchayeva.

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ABRAMOVICH, A.D., kand. tekhn. nauk; ANTONOV, M.F., kand. tekhn. nauk; KAPLAN, G.A., inzh.-ekonomist; LEVIN, S.M., inzh.-zemleustroitel'; LISTENGURT, F.M., kand. geogr. nauk; SAMOYLOV, Ya.M., kand. tekhn. nauk; SMOLYAR, I.M., kand. arkhitek.; SOLOFNINKO, N.A., kand. arkht.; STERLIGOV, V.D., kand. arkht.; FALEYEV, V.G., inzh.; Prinimali uchastiye: BUTUZOVA, V.P.; GLABINA, N.K.; GOL'DSHTEYN, A.M.; DEMYANOVSKIY, V.S.; KAPLAN, G.L.; FEDOTOVA, N.A.; TSEYTLIN, G.I.; BURLAKOV, N.Ya., red.; KOMPANEYETS, Z.N., red. izd-va; GOLOVKINA, A.A., tekhn. red.

[Regional planning of economic administrative regions, industrial regions and centers; planning guide]Raionnaia planirovka ekonomicheskikh administrativnykh raionov, promyshlennykh raionov i uzlov; rukovodstvo po proektirovaniiu. Pod red.N.IA.Burlakova. Moskva, Gosstroiizdat, 1962. 266 p. (MIRA 15:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i raionnoi planirovki. 2. Zamestitel' direktora po nauchnoy rabote Nauchno-issledovatel'skogo instituta gradostroitel'stva i rayonnoy planirovki (for Burlakov). 3. Nauchno-issledovatel'skiy institut gradostroitel'stva i rayonnoy planirovki (for Butuzova, Glabina, Gol'dshteyn, Demyanovskiy, Kaplan, Fedotova, TSeytlin).
(Regional planning)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTUZOVA, V.P.

Distribution of the rural population in the Kungur forested steppe. Uch. zap. Perm. gos. un. 15 no.2:17-25 '60. (MIRA 14:12)
(Kungur steppe--Villages)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

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BUTUZOVA, V.P.

Natural prerequisites of agricultural development in the southeastern part of Perm Province. Uch. zap. Perm. gos. un. 23 no.4:3-15 '63. (MIRA 17:10)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTUZOVA, Ye.I.; BUZULINA, F.Ya.

Bibliography. Trudy TSGL 6:593-632 '57. (MIRA 12:10)
(Bibliography--Fruit culture)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

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PIUNOVSKIY, I.I., kand. tekhn. nauk; ZHIVOTKO, B.I., kand. tekhn. nauk; RUKTESHEL', S.V., kand. tekhn. nauk; SHTOMPEL', B.N., kand. tekhn. nauk; BUTVILOVSKIY, F.A., inzh.; KORZHENEVSKAYA, R.A., inzh.; LOGVINOVICH, I.P., inzh.; UTEVSKAYA, L.I., kand. tekhn. nauk; RUNTSO, A.A., kand. tekhn. nauk; NAGORSKIY, I.S., kand. tekhn. nauk; TERPILOVSKIY, K.F., kand. tekhn. nauk; LOSEV, V.I., kand. tekhn. nauk; YAROSHEVICH, A.A., kand. tekhn. nauk; KATSYGIN, V.V., kand. tekhn.nauk, red.; BOROVNIKOVA, R., red.

[Problems of the technology of mechanized agricultural production] Voprosy tekhnologii mekhanizirovannogo sel'skokhoziaistvennogo proizvodstva. Minsk, Izd-vo "Urozhai." Pt.2. 1964. 336 p. (MIRA 17:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva nechernozemnoy zony SSSR.

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BUTVILOVSKIY, G., SHUVALOV, V. and TISHKINA, L.

"Small-Size Drum Cooler," Mol. prom., 13, No.6, 1952

(Refrigeration machinery)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTVIN, G.K.

Experimental data on the effect of Morshin mineral water from spring No.1 on the evacuatory and motor function of the stomach. Vrach.delo no.9:921-923 S '59. (MIRA 13:2)

1. Kafedra rentgenologii i meditsinskoy radiologii (zaveduyushchiy - kand.med.nauk V.I. Vetoshchuk) i kafedra normal'noy fiziologii (zaveduyushchiy - dotsent V.S. Raytses) Stanislavskogo meditsinskogo instituta.

(MORSHIN--MINERAL WATERS) (STOMACH)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTVIN, G.K.

Effect of Morshin mineral water from Spring No. 1 on the evacuatory and motor function of dogs' stomachs in experimental ulcer. Vrach. delo no. 3:30-33 Mr '61. (MIRA 14:4)

1. Kafedra rentgenologii i meditsinskoy radiologii (zav. - dotsent V.I. Vetoshchuk) i kafedra normal'noy fiziologii (zav. - dotsent V.S. Raytses) Stanislavskogo meditsinskogo instituta.
(MORSHIN--MINERAL WATERS) (PEPTIC ULCER)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTVINNIK, Ya.E.

Adding moistening preparations to fungicide and pesticide powders. Zashch. rast. ot vred. i bol. 5 no. 8:22 Ag '60. (MIRA 13:12)

1. Starshiy inzhener Vsesoyuznogo nauchno-issledovatel'skogo instituta sel'skokhozyaystvennogo mashinostroyeniya. (Spraying and dusting)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTWILOWICZ, W.

"Prospects of the sugar campaign"

p. 755 (Nowe Rolnictwo, Vol. 7, no. 18, Sept. 1958, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan, 59.

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ZACZEK, Zenon, inz.; BUTWILOWSKI, Jerzy, inz.; KOLTUNIAK, Alojzy, inz.

Planning the repair method, the repair and start of the 4,7 MW power unit Nr. 2 WUMAG, taken our of operation for Lower Silesia. Gosp paliw 11 Special issue no.(95):58 Ja '63.

1. Elektrownia Wroclaw.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

L 17871-63 BDS

ACCESSION NR: AP3003707 S/0048/63/027/007/0961/0966

AUTHOR: Beskrovny*y, I.M.; Butyaga, A.S.; Kuragina, I.A. 50

TITLE: Design of transistor current regulators for nuclear spectrometers /Report of the Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 February 1963/

SOURCE: AN SSSR, Izv.Seriya fizicheskaya, v.27, no.7, 1963, 961-966

TOPIC TAGS: current regulator, spectrometer power supply

ABSTRACT: Although a number of different current regulators are now available for use with magnetic spectrometers, generally vacuum tube regulators that can provide the heavy (15-20 amp) current drawn by large spectrometers are lacking and are difficult to design; this limitation does not apply to transistorized regulators. Hence despite voltage limitations and other shortcomings, it is expedient to use transistors for current regulators for spectrometer magnets. Basic design considerations are discussed as they apply to transistor regulated current stabilizers. A transistor regulator circuit with a rating of 15 amp for the Ketron spectrometer is presented. /Abstracter's note: No specific values and parameters are given

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L 17871-63
ACCESSION NR: AP3003707

for most of the components. Tests with a spectrometer having a resolution of 0.4% showed that the regulator provides adequate current stabilization. The characteristics of the regulator are: current range: 200 mA to 15 amp; drift over a period of one hour 1 in 6×10^4; current change as a result of 10% line voltage rise: under 1 in 2×10^3; ripple at 6 amp: under 1 in 1.5×10^4. Orig. art. has: 4 formulas and 6 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 02Aug63 ENCL: 00

SUB CODE: GE, SD NO REF SOV: 002 OTHER: 0000

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I. P.

"Intensity of Springtime Ice Movements and the Protection of Hydroelectric Power-Plant Installations Against the Action of Ice in the Small Rivers of Western Siberia" Cand Tech Sci, Leningrad Polytechnic Inst, Leningrad, 1954. (RZhGeol, No 1, 1955)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I. P.

Subject : USSR/Meteorology AID P - 2501

Card 1/1 Pub. 71-a - 11/26

Author : Butyagin, I. P., Kand. of Tech. Sci.

Title : Testing strength of the ice cover on the Ob' River in spring

Periodical : Met. i Gidro., 3, 42-44, My-Je 1955

Abstract : The article describes tests made by the Transportation and Power Institute of the West Siberian Branch of the Academy of Sciences of the USSR on the bending stress of the ice cover on the Ob' River in 1953-54. A temperature diagram and a table listing detailed data of tests are presented. The average bending stress is found to be 3.3 kg/sq cm., the maximum is 5.5 kg sq cm. Three Russian references, 1940-1947.

Institution: None

Submitted : No date

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I.P., kand.tekhn.nauk

Protection of hydraulic structures from the action of ice during ice movement in the small rivers of Western Siberia. Trudy Transp.-energ.inst.Zap.-Sib.fil.AN SSSR no.5:43-68 '55. (MIRA 15:5)
(Siberia, Western--Ice on rivers, lakes, etc.)
(Hydraulic structure)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I.P., kand.tekhn.nauk

Bending strength of the ice cover. Trudy Transp.-energ.inst.Zap. Sib.fil.AN SSSR no.5:81-86 '55. (MIRA 15:5)
(Ice--Testing)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I.P.

PHASE I BOOK EXPLOITATION SOV/4843

Akademiya nauk SSSR. Zapadno-Sibirskiy filial, Novosibirsk. Transportno-energeticheskiy institut

Voprosy ledotekhniki (Problems in Ice-Control Engineering) [Novosibirsk] Novosibirskoye knizhnoye izd-vo, 1958. 110 p. (Series: Its: Trudy, vyp. 7) 350 copies printed.

Resp. Ed.: K.N. Korzhavin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: P.N. Men'shikov; Tech. Ed.: N.M. Pototskaya.

PURPOSE: This publication is intended for hydrologists and hydraulic engineers.

COVERAGE: This issue of the Transactions of the Transportation and Power Institute contains articles dealing with the ice conditions on the Ob' and Yenisey Rivers, the problems of ice pressure on the supports of hydraulic structures, the possibilities of operating hydropower installations during the winter-spring period, and the determination of heat exchange between the water surface and the atmosphere. No personalities are mentioned. References follow each article.

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Problems in Ice-Control Engineering SOV/4843

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Kuzub, G. Ya. [Candidate of Technical Sciences, Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta-Novosibirsk Institute of Railroad Engineers]. Cracks in the Ice Cover Caused by Temperature Change 21

Liser, I. Ya. [Candidate of Technical Sciences, Krasnoyarskoye upravleniye gidrometsluzhby-Krasnoyarsk Administration of Hydrometeorological Service]. Spring Ice Jams in the Middle Yenisey River 33

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

Butyagin, I.P. Strength of the Ice Cover Under Shearing Stresses 47

Korzhavin, K.N. [Doctor of Technical Sciences]. New Method for Determining the Actual Ice Pressure on Bridge Piers 59

Korzhavin, K.N. Experience in Determining the Actual Ice Pressure on Bridge Piers 83

Gvozdev, V.S. [Candidate of Technical Sciences, Ural'skiy filial AN SSSR - Ural Branch of the AS USSR]. Holding Back the Ice on Small Rivers in Order to Protect Hydrotechnical Structures 93

Samochkin, V.M. Finding More Precise Relationships Determining the Heat Exchange Between the Water Surface and the Atmosphere 103

On the basis of calorimetric observations and solution of the heat balance equation for a section of the Ob' River during the autumn-winter period, the author has arrived at the following conclusions: 1. The formulas of D.N. Bibikov, P.P. Kuz'min, V.V. Piotrovich, and K.I. Rossinskiy for computing the heat losses from water surface

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through evaporation and convection reflect in a satisfactory manner the process of heat losses from river surface with subzero air temperatures. 2. In using the above formulas for the conditions in the Upper Ob' River, it is necessary to introduce correction factors: 0.65 for the formulas of V.V. Piotrovich-N.P. Polevoy, and 0.9 for the formulas of D.N. Bibikov. The formulas of P.P. Kuz'min and K.I. Rossinskiy give average results approaching those obtained from heat balance equations. 3. It is recommended that the heat balance method be used in order to obtain more accurate formulas for heat exchange between water surface of the rivers and the atmosphere.

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3(4,7) PHASE I BOOK EXPLOITATION SOV/2440

Vsesoyuznyy gidrologicheskiy s'yezd, 3rd, Leningrad, 1957.

Trudy...t. III: Sektsiya gidrofiziki (Transactions of the 3rd All-Union Hydrological Convention. v. 3: Hydrophysics Section, Leningrad, Gidrometeoizdat, 1959. 470 p. Errata slip inserted. 2,000 copies printed.

Sponsoring agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Resp. Ed.: V.A. Uryvayev; Ed.: V.S. Protopopov; Tech. Ed.: M.I. Braynina.

PURPOSE: This work is intended for meteorologists, hydrologists, and hydrophysicists, particularly those engaged in the study of snow and ice and evaporation processes.

COVERAGE: This book contains papers on hydrophysics which were presented and discussed at the Third All-Union Hydrological Conference in Leningrad, October 1957. The Conference published 10 volumes on various aspects of hydrology of which this is number 3. The editorial board in charge of the series include: V.A. Uryvayev (Chairman), O.A. Alekin, Ye.V. Bliznyak (deceased), O.N. Borsuk, M.A. Velikanov, L.K. Davydov, A.P. Domanitskiy, G.P. Kalinin, S.N. Kritskiy, B.I. Kudelin, L.F. Manoim, M.F. Ménkel', B.P. Orlov, I. V. Popov, A.K. Proskuryakov, D.L. Sokolovskiy, O.A. Spengler, A.I. Chebotarev, and S.K. Cherkavskiy. This volume is divided into 2 sections: the first contains reports from the subsection for the study of evaporation processes, and the second contains reports from the snow and ice subsection. References accompany each article.

Butyagin, I.P. [Candidate of Technical Sciences] Changes in the Thickness, Structure and Strength of the Ice Cover of the Western Siberian Rivers During the Spring (as Exemplified by the Ob' River) 419

Kolesnikov, A.G. [Professor, Doctor of Physical and Mathematical Sciences], V.I. Belyayev [Aspirant], and L.A. Bukina [Junior Scientific Worker] The Rate of Sludge-Ice Formation 426

Sokol'nikov, V.N. [Candidate of Technical Sciences] Specific Features in the Formation, Growth, and Destruction of the Ice Cover on Lake Baykal 435

Medres, P.L. [Engineer, SZ UGMS Leningrad] Practical Experience in Collecting and Consolidating Datas Provided by Aerial Surveys of Ice on Lake Ladoga 443

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BUTYAGIN, Igor' Pavlovich; VASIL'YEV, Anatoliy Ivanovich; SUKHORUKOV, Lev Nikolayevich; MEN'SHIKOV, P.N., red.; GAVRILOVA, N.V., tekhn.red.

[Development of electric-power engineering in Siberia; popular scientific presentation] Razvitie energetiki Sibiri; nauchno-populiarnyi ocherk. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1960. 97 p. (MIRA 14:3)
(Siberia--Electric power)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I.P.

Studying the Ob'River ice sheet. Trudy TGU 147:101-112 '57.
(MIRA 16:5)

1. Zapadno-Sibirskiy filial AN SSSR.
(Ob' River—Ice on rivers, lakes, etc.)

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BUTYAGIN, Igor' Pavlovich; VASIL'YEV, Anatoliy Ivanovich; SUKHORUKOV, Lev Nikolayevich [deceased]; CHEL'TSOV, Mikhail Borisovich; TISTROVA, O.N., red.; BUL'DYAYEV, N.A., tekhn. red.

[Power production in Siberia] Energetika Sibiri. Moskva, Gosenergoizdat. 1963. 95 p. (MIRA 16:8)
(Siberia—Electric power)

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BUTYAGIN, I.P.

Thickness and structure of the ice cover of the Novosibirsk Reservoir. Trudy Transp.-energ. inst. Sib. otd. AN SSSR no.15:11-23 '64.

Strength of the ice cover in spring. Ibid.:67-76

(MIRA 18:6)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, I.P.; LISER, I.Ya.; SAMOCHKIN, V.M.

Passage of ice through the dam of the Bratsk Hydroelectric Power Station during the debacle of the Angara in 1960-1961. Trudy Transp.-energ. inst. Sib. otd. AN SSSR no.15:51-59 '64. (MIRA 18:6)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

2

Kinetics of catalytic oxidation of propylene. P. Ya. Butyagin and S. Ya. Elovich. *Compt. rend. acad. sci. U.R.S.S.* **54**, 603-6(1946)(In English).—In the investigated intervals of low temp. and small pressure, catalytic oxidation of C_3H_6 is governed by the same law as the activated adsorptions of O and C_3H_6. This indicates that activated adsorption of one of the components may be the rate-detg. stage of the oxidation. For the oxidation, the rate of the reaction is defined by $w = -dp/dt = (a/n)(1-t^{1/n})$ where a and $1/n$ are consts. and t is time. Other observations lead to the conclusion that the reaction proceeds mainly in space. The catalyst generates active centers, part of which are bound firmly to the catalytic surface, whereas the rest are desorbed and initiate a space reaction of the chain type. The reaction is accelerated by decrease in diam. and vol. of the reactor because of the increased concn. of active centers over the catalyst. Thus catalytic oxidation of C_3H_6 is a combination of a heterogeneous and a homogeneous process.

Paul E. Clark

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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BUTYAGIN, P. Yu.

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Kinetics of Catalytic Oxidation of Propylene. P. Iu. Butiagin and S. Iu. Elovich, *Reports of the Academy of Sciences of U.S.S.R.*, v. 54, no. 7, 1946, p. 607-610. (In Russian.)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P. YU.

PA 52/49T20

USSR/Chemistry - Hydrocarbons May 49
Chemistry - Oxidation

"Catalytic Oxidation of Hydrocarbons," P. Yu. Butyagin, L. Ya. Margolis, Inst Phys Chem, Acad Sci USSR, 3½ pp

"Dok Ak Nauk SSSR" Vol LXVI, No 3

Purpose of this study is to ascertain the scope of a surface-volume mechanism in oxidizing hydrocarbons in metallic catalysts. Experiment shows process of strong catalytic oxidation with metals employed takes place according to this mechanism while a surface reaction occurs with mild catalytic oxidation. Submitted by Acad A. N. Frumkin, 25 Mar 49.

52/49T20

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN P. YU.,

FA 172T10

USSR/Chemistry - Kinetics of Combustion and Explosions 11 Dec 50

"On the Mechanism of Catalytic Oxidation of Propene," P. Yu. Butyagin, S. Yu. Yelovich

"Dok Ak Nauk SSSR" Vol LXXV, No 5, pp 711-714

Investigation of reaction between propene and oxygen in presence of platinum deposited on barium sulfate showed reaction consists of following stages: (1) activated adsorption of O_2, (2) formation of surface compd of propene with O_2, (3) formation of more highly oxidized intermediate compd, (4) surface oxidation to CO_2 and H_2O or desorption and vol oxidation. Could be shown by

[redacted] 172T10

USSR/Chemistry - Kinetics of Combustion and Explosions (Contd) 11 Dec 50

sep calorimetry of surface and vol reactions that total reaction proceeds by surface-vol mechanism. Dependence of rate of oxidation on diam of reaction vessel and on kind of glass from which vessel is made also confirm this type reaction occurs. Below 70-80° oxidation proceeds on surface of catalyst exclusively. Existing data on oxidation of ethane and ethylene in presence of Pt or Mg-Cr catalyst indicate these reactions have analogous mechanism.

[redacted] 172T10

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

YELOVICH, S. YU., BUTIAGIN, P. YU

Catalysis

Method for determining the surface-volume mechanism of catalytic reactions. Trudy Inst. fix. khimii AN SSSR No. 1, 1952.

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

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

USSR/Chemistry - Catalysts May 52

"Investigation of a Carrier-Supported Platinum Catalyst by the Adsorption Method," P. Yu. Butyagin, S. Yu. Yelovich, Inst of Phys Chem, Moscow, Acad Sci USSR

"Zhur Fiz Khim" Vol XXVI, No 5, pp 692-700

Investigated low-temp adsorption of O_2 and propene (1) on $BaSO_4$; (2) on Pt deposited on $BaSO_4$. Established that the type of adsorption on the Pt catalyst and the $BaSO_4$ carrier are sharply different. Deposition of Pt on the surface of $BaSO_4$ brings about modification of the type of the isotherms, which is due to the inhomogeneity of the catalyst surface

219T8

from the energetic standpoint. Proposes an adsorption method for detg the ratio of catalyst surface to carrier surface.

219T8

BUTYAGIN, P. YU.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

DMITRIYEV E.M.; BUTYAGIN, P.Yu.

Study of sorption and desorption of water vapor on the materials which are used for pencil leads. Trudy NIIKHP no.4:37-45 '56. (MIRA 11:4)

(Sorption) (Pencils) (Desorption)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.; DMITRIYEV, E.M.

Sphereless method for crushing barite in the vibration mills.
Trudy NIIKHP no.4:46-50 '56. (MIRA 11:4)
(Barite) (Crushing machinery)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

SOV/96-58-5-15/27

AUTHOR: Dmitriyev, E.M., Engineer and Butyagin, P.Yu, Candidate of Chemical Sciences.

TITLE: A Method of Step-wise Drying of Thin Cylindrical Products (Metod stupenchatoy sushki tonkikh tsilindricheskikh izdeliy)

PERIODICAL: Teploenergetika, 1958, Nr 5, pp 65 - 68 (USSR)

ABSTRACT: In drying colloidal porous substances, gradients of water content are set up which can cause bending and cracking of the product so that it is necessary to retard the drying process. Various methods of accelerated drying have been proposed such as infra-red and high-frequency methods. This article describes a method of step-wise drying by hot air with particular application to the drying of pencil leads. In this method, the water content gradients are reduced by separating the stages of moisture conductivity and moisture exchange; the conditions of the drying agent may remain practically constant throughout the process. The method consists in continuous alternation of short-time drying and more prolonged resting. During the short time-drying, small gradients of water content are set up in outer layers of the material but are equalised during the resting periods. Thus, large gradients of water

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content are not set up.
An expression is derived for the rate of drying and the effects of step-wise drying on the rate are considered. The rate of drying that can be applied discontinuously is, of course, higher than that which can be applied continuously. Thin cylindrical products can be dried in a hollow drum with holes in the side through which hot air is blown. The kinetic relationships of step-wise drying were studied on rods with an initial water content of 12% made of a mixture of graphite and clay with 4% of binder. The tests were made on the laboratory equipment illustrated in Figure 1, which maintains the air temperature constant to $\pm$ 1 °C, the relative humidity to $\pm$ 2% and the air velocity to $\pm$ 0.3 m/sec. The drum was weighed from time to time during the drying process. Curves of drying rate are given in Figure 2. The tests were made at an air temperature of 80 °C, a relative humidity of 20%, an air speed of 3.7 m/sec; the drum rotated at 0.55 rpm.
The relationship between the drying coefficient and the proportion of the total time during which the product is drying is plotted in Figure 3. The test results lie close to the theoretical line. This graph illustrates the limits of

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SOV/96-58-5-15/27

A Method of Step-wise Drying of Thin Cylindrical Products

applicability of the formula that is given. The equation and the data of Figure 3 can be used to determine the moisture exchange coefficient and the moisture conductivity coefficient. Formulae are derived for these and calculated results are tabulated. The table also gives calculated values of moisture coefficients from drying curves for rods of different diameter and for discontinuous drying. The results indicate that the basis of the formula for intermittent drying is correct. Before the new method was introduced, the drying lasted from four to twelve days. The works has now gone over entirely to intermittent drying and the drying time is 12 - 48 hours. A theoretical curve of the relationship between the output of the product and the extent of filling of the drum is given in Figure 4. Test results when drying pencil leads are plotted on this curve and there is good agreement between theoretical and practical values.

Card 3/4

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

A Method of Step-wise Drying of Thin Cylindrical Products SOV/96-58-5-15/27

The new process saves time and labour and the products are of good quality.

There are 4 figures, 1 table and 3 Soviet references.

ASSOCIATION: NII khimicheskoy promyshlennosti Gosplana RSFSR (Scientific Research Institute of the Chemical Industry, RSFSR Gosplan)

Card 4/4 1. Porous materials--Dehydration 2. Cylindrical surfaces--Dehydration 3. Pencils--Productions 4. Air blast--Applications

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

SOV-69-20-5-20/23

AUTHORS: Matskevich, Ye.B., Butyagin, P.Yu.

TITLE: Some Laws of the Process of Graphite Dispersion in an Aqueous Medium (Nekotoryye zakonomernosti protsessa izmel'cheniya grafita v vodnoy srede)

PERIODICAL: Kolloidnyy zhurnal, 1958, Vol XX, Nr 5, pp 665-673 (USSR)

ABSTRACT: Graphite changes its properties (adsorption capacity, electric conductivity, granulometric composition, etc.) according to the medium in which it is being dispersed. The laws for the dispersion of graphite in an aqueous medium by vibration mills are here studied, according to the speed of destruction and the speed of increase of specific surface. The granulometric composition of graphite after dispersion in an aqueous sulfite alkali solution is shown in Figure 2. There are three principal fractions of particles: fraction I with a particle diameter greater than 15 μ; fraction II with diameters between 15 and 3 μ; fraction III with diameters below 3 μ. Figure 3 shows the quantitative relations of the three fractions during experiment. After 5 hours the content of fraction II is 80%. The dependence of the constants of destruction speed on the diameter of the graphite granules is shown in Figure 5. In the experiments, the initial speed for the growth of the specific sur-

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face is equal to 1.8 m^2/g per hour. For comparing the granulometric composition of the graphite, the specific volume of pressed powders has been measured. The pressed volume of briquets made of dry graphites is always smaller than those made of graphites dispersed in water. During dispersion of dry graphite, the speed of growth of a specific surface increases sharply and the secondary structure and the granulometric composition of the graphite change. There are 8 sets of graphs, 2 tables, and 10 references, 8 of which are Soviet and 2 German.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimicheskoy promyshlennosti Moskva (Scientific Research Institute of the Chemical Industry, Moscow)

SUBMITTED: June 1, 1958

1. Graphite--Properties 2. Graphite--Processing 3. Graphite --Solubility 4. Solutions--Properties

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.; BERLIN, A.A.; KALMANSON, A.E.; BLYUMENFEL'D, L.A.

Formation of macroradicals in the mechanical destruction of vitrified polymers. Vysokom. soed. 1 no.6:865-868 Je '59.

(MIRA 12:10)

1. Laboratoriya anizotropnykh struktur AN SSSR.
(Polymers) (Radicals (Chemistry))

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

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S/020/61/140/001/018/024
B127/B101

15.8500 2209 1573

AUTHOR: Butyagin, P. Yu.

TITLE: Active intermediate state produced by mechanical destruction of polymers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 1, 1961, 145 - 148

TEXT: The authors studied the intermediate state of mechanically destroyed polymers. The polymers were destroyed by a vibratory mill. The degree of hard polymer destruction was determined by measuring the specific surface area S by the BET method, the destruction of macromolecules being measured viscosimetrically. Concentration, structure, and conversion of free radicals were determined by e.p.r. and the luminescence observed by an ФЭУ-19 (FEU-19) photomultiplier. The following polymers were investigated: polymethyl methacrylate, polystyrene, polyacrylonitrile, polyvinyl alcohol, polyester acrylate, linear polyethylene, copolymers of polystyrene with divinyl benzene, poly-α-methyl styrene, and carboxymethyl cellulose. The highest values of the specific surface area being equal to 120 - 150m^2/g) were obtained at 77°K for polymers of the vinyl series having the CH_3

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group in α-position. On gradual heating of the samples near 130°K, an agglutination was observed, which proves the mobility of molecules in the state of stress. This effect can be explained by a relaxation of the free rotation of α-CH_3. In certain experiments where the molecular weight was determined in sufficiently wide zones (polymethyl methacrylate, polystyrene, polyacrylonitrile), the exponential law of the rate of destruction was calculated to be $M = M_0 \exp(-k\tau)$, or $X \approx A \exp(k\tau)$, where $X = 6 \cdot 10^{23}(1/M - 1/M_0)$ is the number of destroyed bonds per gram; k is the constant of the destruction rate, and τ is the time. Such solvents as benzene, dioxane, and other organic substances have a specific protective effect on the course of mechanical destruction at low temperatures. The author assumes that mechanical destruction is effected, not by a rupture of the principal macromolecule chains, but by the formation of intermediate non-equilibrium states of macromolecules. This explains the abnormally high radical concentration (10^{18} - 10^{20} per g) and the similarity between radiation and mechanical destruction of polymers. I. V. Kolbanev and A. R. Kuznetsov participated in the experiments. There are 3 figures and 11 references: 8 Soviet and 3 non-Soviet. The three references to English-language

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

27881

Active intermediate state...

S/020/61/140/001/018/024
B127/B101

publications read as follows: K. M. Sinnot, J. Polym. Sci., 42, No. 139, 3 (1960); J. G. Powles, H. S. Gutowsky, J. Chem. Phys., 21, 1695 (1953); R. J. Abraham, H. W. Melville, D. V. Ovenall, D. H. Wiffen, Trans. Farad. Soc., 54, 1133 (1958).

PRESENTED: April 13, 1961, by V. N. Kondrat'yev, Academician

SUBMITTED: April 6, 1961

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.; Prinimal uchastiye KOLBANEV, I.V.

Mechanochemical transformations in macromolecules at 80°K.
Dokl. AN SSSR 148 no.1:129-131 Ja '63. (MIRA 16:2)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N. Kondrat'yevym.
(Macromolecular compounds) (Radicals (Chemistry)—Spectra)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

UL'BERT, Karel [Ulbert, Karel]; BUTYAGIN, P.Yu.

Electron paramagnetic resonance spectra arising after mechanical and thermal processing of natural polymers containing cystine. Dokl. AN SSSR 149 no.5:1194-1196 Ap '63. (MIRA 16:5)

1. Institut organicheskoy khimii i biokhimii Akademii nauk Chekhoslovatskoy SSR i Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom P.A.Rebinderom.
(Polymers--Spectra) (Cystine)
(Paramagnetic resonance and relaxation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.; ABAGYAN, G.V.

"Formation of free radicals and migration of free valences under the influence of mechanical forces on proteins."

Report presented at the Symposium for Physical Chemistry of Biogenic Macromolecules, Jena, GDR, 18-21 Sep 63.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.; KOLBANEV, I.V.; RADTSIG, V.A.

Electron paramagnetic resonance spectra of gree radicals in solid polymer degradation products. Fiz. tver. tela 5 no.8:2257-2260 Ag '63. (MIRA 16:9)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.
(Paramagnetic resonance and relaxation)
(Radicals (Chemistry)--Spectra)
(Polymers)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.; Prinimal uchastiye: KOLBANEV, I.V.

Study of the surface of polymers in the process of dispersion. Vysokom. soed. 5 no.12:1829-1836 D '63. (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ABAGYAN, G.V.; BUTYAGIN, P.Yu.

Study of the mechanical destruction of gelatin using the method of electron paramagnetic resonance. Biofizika 9 no.2:180-183 '64. (MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ABAGYAN, G.V.; BUTYAGIN, P.Yu.

Sequence of free radical reactions as affected by mechanical actions on protein molecules. Dokl. AN SSSR 154 no.6:1444-1447 F '64. (MIRA 17:2)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N. Kondrat'yevym.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

TITLE: [illegible]

SOURCE: [illegible] no. 3, 1964, [illegible]

Tabila stom [illegible] in the case of ethylbenzene, chlorine in the [illegible]

Card [illegible]

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L 21[illegible]

[illegible]

tions of polymers (excess energy of free radicals at the time [illegible] mechanical activation of the system, etc.). However, many reac[illegible] the system is heated to a certain temperature after the [illegible] mechanical method is not a decisive factor. The nature of the [illegible] [illegible]

[illegible]

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[illegible] OTHER: [illegible]

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L 45212-65 EPF(c)/EWT(m)/EWP(j)/T Pc-4/Pr-4 RPL RM
S/0181/65/007/003/0941/0943

polymers. [illegible]

[illegible] Fizika tverdogo tela, v. 7, no. 3, 1965, 941-943

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

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khimicheskoy fiziki AN SSSR, Moscow

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

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4

ACCESSION NR: AP5013063

of the C-C bonds. The free radicals formed in the rupture of both types of chains

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

RADTSIG, V.A.; BUTYAGIN, P.Yu.

Electron paramagnetic resonance spectra of free radicals in the products of degradation of solid oxygen-containing polymers. Vysokom. soed. 7 no.5:922-927 My '65. (MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ABAGYAN, G.V.; BUTYAGIN, P.Yu.

Electron paramagnetic resonance spectra observed during mechanical treatment of DNA preparations. Biofizika 10 no.5:763-765 '65. (MIRA 18:10)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ABAGYAN, G.V.; BUTYAGIN, P.Yu.

Mechanical degradation of polysaccharides studies by the electron paramagnetic resonance method. Vysokom. soed. 7 no.8:1410-1414 Ag '65. (MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, P.Yu.

Reaction mechanism of the decay of free radicals in polymethyl methacrylate. Dokl. AN SSSR 165 no.1:103-106 N '65.

(MIRA 18:10)

1. Institut khimicheskoy fiziki AN SSSR. Submitted April 8, 1965.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ACC NR: AP6016065 SOURCE CODE: UR/0020/65/165/001/0103/0106

AUTHOR: Butyagin, P. Yu.

ORG: Institute of Physical chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Mechanism of the destruction of free radicals in polymethylmethacrylate

SOURCE: AN SSSR. Doklady, v. 165, no. 1, 1965, 103-106

TOPIC TAGS: free radical, monomer, depolymerization macromolecule, alkyl radical

ABSTRACT: Free radicals are detected in polymethylmethacrylate under chemical, radiation, photochemical, and mechanical influences. The relative stability and modes of destruction of the various types of radicals are discussed. The low-molecular fraction obtained from polymethyl methacrylate containing free radicals was found to consist chiefly of the monomer, methyl methacrylate. The most probable pathway of decomposition of terminal radicals of the $R_1^{\cdot}$ type is the splitting out of a monomer unit; an ordinary bond is broken, and a double bond is formed. Decomposition of radicals of the $R_2^{\cdot}$ type with a free valence in the middle of the chain results in a double bond and a terminal radical. Resultant elementary reactions in the decomposition of the radical $R_2^{\cdot}$ include decomposition of the radical, stabilization of the new radical $R_3^{\cdot}$ by stripping of an H atom from a neighboring molecule, deploymerization, addition of a monomer or depolymerization to the end of the macromolecule, and addition of radicals. The isolation of low-molecular products in a case of destruction of peroxide radicals may also be explained by decomposition and depolymerization of alkyl radicals,

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UDC: 541.515+541.64

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L 25625-66

ACC NR: AP6016065

following a similar reaction chain. In an inert atmosphere the process ends in the formation of a long-lived radical, while in the presence of oxygen it continues. Migration of the free valence, leading to destruction of the active centers, occurs without the participation of oxygen, according to a mechanism specific for the destruction of alkyl radicals; the oxygen consumption and yield of the oxidation products per pair of destroyed radicals are one to two orders of magnitude below the values for a purely oxidative mechanism of migration. This paper was presented by Academician V. N. Kondrat'yev on 8 April 1965. The author thanks N. A. Plate for the exchange of views on this work. Orig. art. has: 3 figures and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 03Apr65 / ORIG REF: 006 / OTH REF: 004

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, V. A. Cand. Tech. Sci.

Dissertation: "Squares Near Railroad Terminals and Fundamentals of Their Planning." Moscow Inst of Engineers of Municipal Building, 3 Jun 47.

SO: Verchernyaya Moskva, Jun, 1947 (Project #17836)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

PISAREV, S.G., professor, doktor tekhnicheskikh nauk; BUTYAGIN, V.A.' redaktor; ZISEL'SON, N.A., tekhnicheskiy redaktor.

[City transportation] Gorodskoi transport. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1948. 502 p. [Microfilm] (MLRA 8:9)

(Traffic engineering)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

STRAMENTOV, Andrey Yevgen'yevich, prof., doktor tekhn. nauk;
BUTYAGIN, Veniamin Aleksandrovich, dots., kand. tekhn. nauk;
FISHEL'SON, M.S., red.; BOLOTINA, A.V., red. izd-va; KHENOKH,
F.M., tekhn. red.

[Planning and improvement of cities]Planirovka i blago-
ustroistvo gorodov. Izd.2., perer. i dop. Moskva, Izd-vo M-va
kommun.khoz.RSFSR, 1962. 507 p. (MIRA 16:3)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR (for Stramentov).
(City planning)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, V. N.

Physicochemical properties of dried serum of big cattle prepared by the method of spraying. V. N. Butyagin. *Leningrad. Inst. Usovershenst. Vet. Vrachei, Sbornik Nauch. Trudov* 10, 108-13(1955).—The satisfactory drying of serum of cows on a large scale (16-17 l. per batch) was accomplished with a drier and sprayer. The diam. of 80-90% of the particles was 10 μ and the water content was 7-8%. Dried serum dild. to the original concn. had the same viscosity as the original serum, its pH was 9-10 (as a result of loss of CO_2); it had no hemolytic effect on added normal red blood cells of various animals and could be used intravenously for two weeks. The serum dried *in vacuo* by freezing contained 1.5-4.5% H_2O and could be kept longer than 1 year without appreciable deterioration.

A. V. Tolstoouhov

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BUTYAGIN, V. N.:

BUTYAGIN, V. N.: "Sterile drying of blood serum by the method of spraying." Min Higher Education USSR. Leningrad Veterinary Inst. Leningrad, 1956
(Dissertation for the Degree of Candidate in Veterinary Sciences)

So: Knizhnava Letopis', No 17, 1956

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

Butyagin, V. N.

Sterile drying [of blood serum] by the atomization method. V. N. Butyagin (Meat Combine, Leningrad). *Myasnaya Ind. S.S.S.R.* 27, No. 3, 15-16(1956).—Drying of sterile native bovine serum (I) by an atomization method, which is considered more efficient than the commonly used freeze-dry method, is briefly described. The I prepns. obtained contained 6-12% moisture; the viscosity and the albumin/globulin ratio of 8% I solns. were the same as in the native I; the I solns. were not pyrogenic (intravenous injections to rabbits), not toxic (white rats), and harmless (subcutaneous administrations to guinea pigs); no hemolysis of human, bovine, rabbit, and guinea pig erythrocytes occurred when they were kept in the 8% I solns. for 24 hrs. The soly. of the I prepns. did not change after 2 years dry storage. A brucellosis serum, dried in this way, preserved its original titer of 1:400 after the drying. E. W.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, V. N.

New preparations from animal blood. V. N. Butyagin. Kazanskoe Ind. S.S.S.R. 27, No. 8, 20(1956).—By mild

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGIN, V.N.; CHAPLYGINA, Z.A.

Production of L-103 hydrolysin in dry form. Probl. gemat. i perel. krovi 4 no.5:41-44 My '59. (MIRA 12:7)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni Instituta perelivaniya krovi (dir. - dotsent A.D. Belyakov, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.N. Filatov)
(AMINO ACID, MIXTURE, preparation of,
L-103 hydrolysin, dry prep. (Rus))

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BUTYAGIN, V.N., kand.vet.nauk

Industrial production of hydrolysates. Akt.vop.perel.krovi no.7:301-303 '59. (MIRA 13:1)

1. Zavod medpreparatov Leningradskogo myasokombinata im. S.M. Kirova.

(BLOOD PLASMA SUBSTITUTES)

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GOLUBEV, T.I.; BUTYAGIN, V.N.; DERYABIN, I.I.

Sterile drying of aminopeptide-2 in a spray dryer. Med.prom. 13 no.7:38-41 Jl '59. (MIRA 12:10)

1. Zavod meditsinskikh preparatov Leningradskogo myasokombinata imeni S.M.Kirova.
(PEPTIDES) (BIOLOGICAL PRODUCTS--DRYING)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

KOZHEMYAKIN, N., prof.; BUTYAGIN, V., dotsent; IVANOV, I., dotsent; LISTOPAD, V.

Effect of cattle feeding with bagasse on the bone tissue. Mias. ind. SSSR 34 no.5:47-48 '63. (MIRA 16:11)

1. Leningradskiy veterinarnyy institut.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGINA A. P.

IA 17T39

USSR/Medicine - Malaria May/Jun 1947
Medicine - Acrichine

"The Treatment of Malaria with Dextro-rotatory Acrichine," A. P. Butyagina, A. M. Zhivilova, Clinical Department of the Institute of Malaria and Medical Parasitology, Academy of the Medical Sciences, USSR, 6 pp

"Meditsinskaya Parazitologiya" No 3, pp. 30-4

Brief discussion, with two statistical tables, of 150 malaria cases treated with intramuscular injections of a 0.4 preparation in the course of three days' treatment.

17T39

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGINA, A. P.,

"Clinical Features of Homologous Serum Jaundice," Sov. Med., No. 12, 1948.

Clinical Dept. Central Institute Malaria * Medical Parasitology, Dept. Hygiene, Microbiology, and Epidemiology, Acad. Med. Sci., 1948.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGINA, A. P.

BUTYAGINA, A. P. -- "Serum Hepatitis as a Form of Manifestation of Botkin's Disease." Sub 4 Apr 52, Acad Med Sci USSR. (Dissertation for the Degree of Doctorate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ROTENBURG, S.S.; BUTYAGINA, A.P.; NOVOSELOVA, Ye.I.

Study of clinical and laboratory characteristics in patients with frequent recurrences of malaria. Med.paraz.i paraz.bol. no.5:430-433 S-O '53. (MLRA 6:12)

1. Iz klinicheskogo otdeleniya Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR (direktor instituta - professor P.G.Sergiyev, zaveduyushchiy otdeleniyem - professor Ye.M.Tareyev). (Malarial fever)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGINA, A.P.; VORONKOVA, O.I.; TALINSKAYA, A.F.; USHAKOVA, S.P.

Studying outbreaks of Botkin's disease in children's institutions. Sov.med. 19 no.12:55-59 D '55. (MLRA 10:9)

1. Iz Instituta virusologii AMN SSSR i Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo

(HEPATITIS, INFECTIOUS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGINA, A.P., doktor meditsinskikh nauk

Clinical characteristic of homologous serum jaundice. Vrach.delo no.11:1151-1158 N '56. (MLRA 10:3)

1. Kafedra obshchey i gospital'noy terapii (zaveduyushchiy - deystvitel'nyy chlen AMN SSSR Ye.M.Tareyev) sanitarno-gigiyenicheskogo fakul'teta Pervogo moskovskogo meditsinskogo instituta.
(JAUNDICE)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

MOROZKIN, Nikolay Ivanovich; BUTYAGINA, A.P., red.; KNAKNIN, M.T., tekhn.red.

[Influenza] Gripp. Moskva, Gos.izd-vo med.lit-ry, 1958. 173 p. (INFLUENZA)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYAGINA, Aleksandra Pavlovna; PETERSON, O.P., red.; MATVEYEVA, M.M., tekhn.red.

[Serum hepatitis; the parenteral form of Botkin's disease] Syvorotochnyi gepatit; parenteral'naia forma bolezni Botkina. Moskva, Medgiz, 1962. 149 p.

(HEPATITIS, INFECTIOUS) (MIRA 15:5)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUTYANOV, D.D., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti)

Treatment and control of leptospirosis in swine. Veterinariia 40 no. 5:27-28 My '63. (MIRA 17:1)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUT'YANOV, D. D.

37471. PETROV, V. F. i BUT'YANOV, D. D. Deystviye Fitontsidov Chesnoka Na Vozbuoitelya Rozhi Sviney. Uchen. Zapiski Viteb. Vet. In-ta, t. IX, 1949, s. 110-14.-- Bibliogr: 7 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUT'YANOV, D.D., veterinarnyy vrach; CUZMAN, Z.I., veterinarnyy vrach

Comparative evaluation of the methods for worming sheep with fascioliasis using difluorotetrachloroethane (freon 112) and carbon tetrachloride. Trudy NIVI 1:179-181 '60. (MIRA 15:10)
(Freons) (Carbon tetrachloride) (Liver fluke)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUT'YANOV, D.D.

Sinusitis in ducklings and goslings. Veterinariia 40 no.7:40-41 Jl '63. (MIRA 16:8)

1. Glavnyy veterinarnyy vrach Klimovichskogo rayona, Mogilevskoy obl.

(Klimovichi District--Sinusitis)
(Klimovichi District--Ducks--Diseases and pests)
(Klimovichi District--Geese--Diseases and pests)

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LAPTEV, I.D., starshiy nauchnyy sotr.; BUYANOV, P.S., starshiy nauchnyy sotr.; KASSIROV, L.N., starshiy nauchnyy sotr.; TERYAYEVA, A.P., starshiy nauchnyy sotr.; SUVOROVA, L.I., starshiy nauchnyy sotr.; SIDOROVA, M.I., starshiy nauchnyy sotr.; SEMIN, S.I., starshiy nauchnyy sotr.; Prinimali uchastiye: ARKHIPOV, A.I., mladshiy nauchnyy sotr.; VAZYULYA, P.F., mladshiy nauchnyy sotr.; KARLYUK, I.Ya., mladshiy nauchnyy sotr.; KARNAUKHOVA, Ye.I., mladshiy nauchnyy sotr.; KRYLOVA, T.N., mladshiy nauchnyy sotr.; ROMANOVSKAYA, L.S., mladshiy nauchnyy sotr.; CHISTOV, G.N., mladshiy nauchnyy sotr.; POTAPOV, Kh.Ye., red.; GERASIMOVA, Ye.S., tekhn. red.

[Communal funds of collective farms and the distribution of collective farm income] Obshchestvennye fondy kolkhozov i raspredelenie kolkhoznykh dokhodov. Moskva, Izd-vo ekon. lit-ry, 1961. 386 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Sektor ekonomiki sel'skogo khozyaystva Instituta ekonomiki Akademii nauk SSSR (for Laptev, Buyanov, Kassirov, Teryayeva, Suvorova, Sidorova, Semin).

(Collective farms—Income distribution)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

AGAYEV, K., mayor; BUTYAYEV, N., mayor

Attack of a rifle platoon. Voen. vest. 41 no.1:25-26 Ja '62.
(MIRA 16:11)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUT'YEV, V.T.

Wintering of birds in the northern part of Novaya Zemlya.
Ornitologiia no.2:99-101 '59. (MIRA 14:7)
(Novaya Zemlya--Water birds)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUT'YEV, V.T.; ORLOV, V.I.

Quantitative characteristics of the avifauna in the forests of the southeastern Istra-Moskva interfluve. Uch. zap. MGPI no.227:291-300 '64.
(MIRA 18:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

BUT'YEV, V.T.; MALEVICH, I.I.

Brief news and information. Zool. zhur. 44 no.6:958-960 '65. (MIRA 18:10)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

MER, I.I., kand.tekhn.nauk; BUTYKHOV, N.V., inzh.; MOROZOV, Ye.M., inzh.

Device for laying a coating in irrigation canals which prevents loss of water. Stroi. i dor. mash. 7 no.5:32-36 My '62. (MIRA 15:5)

(Irrigation canals and flumes)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307810008-4

ACCESSION NR: AT4042829 S/2601/64/000/018/0003/0017

AUTHOR: Buty*lenko, A. A., Gridnev, V. N., (Corresponding member AN UkrSSR)

TITLE: Deformation characteristics and changes in the physical properties of ferrochromium alloys

SOURCE: AN UkrSSR. Institut metallofiziki. Sbornik nauchny*kh rabot, no. 18, 1964. Voprosy* fiziki metallov i metallovedeniya (Problems in the physics of metals and physical metallurgy), 3-17

TOPIC TAGS: ferrochromium, ferrochromium plastic property, ferrochromium cold brittleness, ferrochromium physical property, ferrochromium deformation, physical property anomaly, iron content effect, ferrochromium low temperature behavior, ferrochromium transition point, antiferromagnetic spin alignment

ABSTRACT: Nine ferrochromium alloys with Fe content ranging from 0.31 to 53.4 at. % were tested to determine their plastic properties, anomalies in their electrical and volume properties, as well as interrelations between antiferromagnetic spin alignment and plastic

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properties. The respective methods used involved static bending (20 mm flexure, stress at 0.4 mm/sec, 0-1100K) and microphotography of rupture under a static load, measurements of electrical resistivity, thermoelectromotive force (in comparison with platinum "Extra") and relative thermal expansion across a range of -196 to +350C (±1.5C), as well as microhardness tests and low-temperature compression of cylindrical samples. The transition point rose to 800-900K as Fe increased to 10-15 at.%, then dropped to low temperatures as it increased further to 45-50 at.%. The alloy with 53.4 at.% Fe had an adequate plasticity factor at 77K. Deformation occurs, successively, in the form of twinning, twinning and slip, and slip only as temperature rises. Twinning frequently precedes inception of a brittle crack and the latter often follows the twin pattern. Physical property anomalies of alloys with 10-15 at.% Fe are displaced into low temperatures and exceed the similar effects in pure Cr by many times, while cold brittleness thresholds increase sharply with alloying. The displacement continues as Fe increases, the dilatometric effect decreases, while the plastic properties improve. "Compression tests were carried out in the Laboratoriya mekhanicheskikh ispytaniy Instituta elektrosvarki AN USSR (Mechanical Testing Laboratory of the Electrical Welding Institute, AN UkrSSR)." Orig. art. has: 7 graphs and 34 microphotos.

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ACCESSION NR: AT4042829

ASSOCIATION: Institut metallofiziki AN UkrSSR (Metallophysics Institute, AN UkrSSR)

SUBMITTED: 27Feb63

ENCL: 00

SUB CODE: MM

NO REF SOV: 009

OTHER: 030

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