"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 00991-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5019971 UR/0136/65/000/008/0064/0068
669.295

AUTHOR: Rodyakin, V. V.; Garmata, V. A.; Sokolon, I. I.; Sandler, R. A.; Arutyunov, E. A.; Vlasov, V. A.; Ustinov, V. S.; Andreyev, A. Ye.

TITLE: Quality of the titanium sponge obtained by using different types of magnesium

SOURCE: Tsvetnyye metally, no. 8, 1965, 64-68

TOPIC TAGS: titanium sponge, raw electrolytic magnesium, refined magnesium, sponge block, condensate magnesium, titanium tetrachloride, spongy titanium, magnesium electrolysis

ABSTRACT: The article presents the findings of experimental-industrial comparison tests of the quality of parts of a block of spongy titanium obtained by using raw electrolytic magnesium, refined magnesium, and condensate magnesium (obtained by remelting the condensate of the vacuum separation of titanium). The tests were based on the use of titanium tetrachloride of a fixed composition. Analysis showed that the hardness of the refined part of the block, obtained by using refined magnesium is 6-8 units lower than the hardness of the same parts

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L 00951-66

ACCESSION NR: AP5019971

of the sponge block obtained by using condensate magnesium. On the whole the difference in the quality of commercial metal amounts to 6-7 units (hardness) in favor of the titanium sponge obtained on the basis of refined magnesium. Therefore, the use of liquid instead of solid magnesium does not appreciably affect the quality of spongy titanium. As the methods of transporting liquid magnesium are improved, the expediency of conversion to the liquid form of this reducing agent will increase. Analysis of the quality of the titanium sponge obtained with the aid of different types of magnesium has confirmed that the impurities (Fe, Si, C, N, O) from the magnesium concentrate chiefly at the bottom of the sponge block. This leads to a deterioration in the quality of the commercial metal which, in its turn, causes a decrease in its recovery from $TiCl_4$. The deterioration in the quality of spongy titanium is chiefly due to the gaseous impurities. With respect to the content of these impurities, raw and refined magnesium are of a much better quality than condensate magnesium. Owing, however, to the still current imperfections in the technology of removal of magnesium from electrolytic cells, the use of raw magnesium often leads to a lower quality of the bottom and surface layers of blocks of spongy titanium. These operations must be improved before the quality and recovery of titanium metal can be im-

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ACCESSION NR: AP5019971

proved. Thus, the reduction of titanium from its tetrachloride is best accomplished with the aid of raw magnesium, but this requires prior improvements in the technology and equipment for transferring magnesium from electrolyzers to reduction. Orig. art. has: 1 figure, 3 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 3498-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD

ACCESSION NR: AP5024860 UR/0136/65/000/010/0070/0071
669.295:620.18

AUTHOR: Vasyutinskiy, N. A.; Rys'yeva, Yu. I.; Rodyakin, V. V.; Chernysheva, S. P.; Kushkin, B. N.

TITLE: Metallographic investigation of porosity in magnesium-reduced titanium sponge

SOURCE: Tsvetnyye metally, no. 10, 1965, 70-71

TOPIC TAGS: titanium, sponge metal, porous metal, porosity, metal grain structure, metal recrystallization

ABSTRACT: The structure of the titanium sponge produced by reduction with magnesium affects markedly the process of the vacuum separation of the sponge and particularly the degree of elimination of certain impurities. However, the available data on the porosity of Ti sponge are relatively limited, and besides the study of the structure of this sponge cannot be confined to porosity alone, since the internal structure of the sponge, i.e. its microcrystalline structure, also is of interest. Accordingly, the authors present the results of a metallographic in-

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L 3498-66

ACCESSION NR: AP5024860

vestigation by means of which new findings on this subject have been obtained. Specimens of Ti sponge were microscopically examined following their treatment with pore-filling rosin and subsequent polishing with abrasive powders and etching for 1 min in a solution of 10 cc HF, 30 cc HNO_3 and 50 cc H_2 at room temperature for 1 min. The specimens pertained to three different sponges produced at different rates of feed of $TiCl_4$ to the reactor. Findings: in sponge 1 ($TiCl_4$ feed rate: 150 kg/m^2-hr) irregularly shaped pores of from 40-60 to 100-150 μ predominate, with most of the pores having smooth (round) contours: in sponge 2 ($TiCl_4$ feed rate: 230 kg/m^2-hr) the micropore size is more uniform; in sponge 3 ($TiCl_4$ feed rate: 320 kg/m^2-hr) the micropore size is from 5 to 250 μ and the size distribution is as irregular as in sponge 1. On the whole, sponge porosity increases with increasing $TiCl_4$ feed rate, while at the same time the character of pores changes -- they become more irregularly shaped, with "lacerated" contours. This indicates an increase in the crystallization rate of Ti and a decrease in the effectiveness of recrystallization processes. Sections of sponge 1 reveal two basic structural varieties of the α-modification of Ti -- polyhedral (mostly equiaxial from 20-30 to 100-150 μ) and elongated acicular grains; this pattern is less distinctive for sponge 2. The visually observable dendrites of the titanium sponge proved, on microscopic examination, to have a polycrystalline structure, they

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ACCESSION NR: AP5024860

clearly underwent complete recrystallization, i.e. only the external remains of dendritic structures have survived. It is thus concluded that the change in the rate of feed of $TiCl_4$ to the reactor not only alters the extent and character of porosity of the sponge but also is accompanied by changes in the microstructure of Ti itself. It should be considered that the sponge investigated was subjected to the vacuum separation process, and hence the changes in sponge structure that were caused by change in the regime of reduction were offset to some extent by the subsequent changes in the structure of the sponge during its separation. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 005 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 3499-66 EWT(m)/EPF(c)/EPF(n)-2/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5024859 UR/0136/65/000/010/0067/0070

669.295

38

B

AUTHOR: Rodyakin, V. V.; Kushkin, B. N.; Arutyunov, E. A.; Petrun'ko, A. N.

44,55 44,55 44,55 44,55

TITLE: Quality of magnesium-reduced sponge titanium with respect to its residual chlorine content

44,55, 27

SOURCE: Tsvetnyye metally, no. 10, 1965, 67-70

TOPIC TAGS: sponge metal, titanium, chlorine, chlorine compound 27

ABSTRACT: The effect of the rate of feed of titanium tetrachloride (v_{TiCl_4}) to the reaction vessel on the structure of the resulting Ti sponge is investigated. Three different v_{TiCl_4} were selected: 150, 230, and 320 kg/m^2-hr. These encompass the entire range of variations in the feed rate during the process of reduction with liquid Mg. These rates were maintained constant for up to 55, 45, and 40% of the amount of Mg used, respectively, whereupon they dropped to 75-90 kg/m^2-hr. Separation was performed at 1020°C for all the three zones over the height of the

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 3499-66

ACCESSION NR: AP5024859

0

furnace, whereupon samples of the Ti sponge blocks were analyzed for Cl. Findings: as v_{TiCl_4} increases from 150 to 320 kg/m^2-hr, the Cl content of the sponge increases, particularly in the bottom of the block. As was to be expected, the content of residual Cl in the upper parts of the blocks is regularly much greater than in the lower parts. On transition from lower to higher rates, however, this difference shrinks and at 320 kg/m^2-hr it virtually disappears. An investigation of porosity with a special porograph showed that porosity of the sponge increases from 40.8 to 46.3% with increasing rate of reduction, which apparently is the reason for the increase in the content of residual Cl from 0.05 to 0.09% in the sponge. This last may be attributed to the deterioration in the conditions for the evaporation of the chlorides with decreasing size of pores. Orig. art. has: 3 figures, 3 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, GC

NO REF SOV: 001 OTHER: 001

Card 2/2 DP

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYAKINA, V.V., otv. za vypusk; VERINA, G.P., tekhn.red.

[Regulations pertaining to accounting based on the agreements on international passenger and railroad freight traffic (SMPS and SMGS); deistvuiut s 1 ianvaria 1960 g. Moskva, Gos.transp. zhel-dor.izd-vo, 1959. 42 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Railroads--Accounting, bookkeeping, etc.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

AUTHOR: Abdeev, M.A., Andreev, V.M., Obcharenko, V.P. and Rodyakin, V.V. 136-4-19/23

TITLE: Discussion of the book by Prof. V.I. Smirnov "Shaft Smelting in the Metallurgy of Non-ferrous Metals", Metallurgisdat 1955. (Obsuzhdenie knigi prof. V.I. Smirnova "Shakhtnaya Plavka v metallurgii tsvetnykh metallov", Metallurgizdat, Sverdlovsk, 1955, 520 str.)

PERIODICAL: "Tsvetnye Metally" (Non-ferrous Metals) 1957, No.4, pp. 82 - 84, (U.S.S.R.)

ABSTRACT: This is an outline of contributions at a discussion, held at the end of November, 1956, on a recently published book by Prof. Smirnov. The discussion was organised by the All-Union Non-ferrous Metallurgical Research Institute (VNIITsvetmet) and was attended by its staff as well as by representatives from the mining industry and from the Altai Mining-metallurgical Institute of the Academy of Sciences of the Kazakhstan SSR (Altayskiy gorno-metallurgicheskiy Institut AN KazSSR).

L.P. Ushkov (of the research institute) thought the book interesting but containing many defects. For example, the old method of sintering in rotary furnaces is put forward as a new process. Again, the methods of blowing in lead furnaces described are not used at all at Russian works. The book is also said to contain out-of-date diagrams.

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Discussion of the book by Prof. V.I. Smirnov "Shaft Smelting in the Metallurgy of Non-ferrous Metals", Metallurgizdat, 1955.(Cont)

136-4-19/23

I.I. Kershanskiy point out some defects in the book, e.g. the fact that although the author points out the importance of charge preparation, little material is presented on this subject. Nor did the author give comparative data on sinter-machine operation, and some information on sintering was misleading. This contributor, like the following one, was from the Research Institute. V.V. Rodyakin commended the author's inclusion of the "adsorptional-autocatalytic" theory of oxide reduction as well as the other good features of the book. He indicated some defects, however, such as the absence of thermo-dynamical analysis and the altogether insufficient attention given to reduction processes in shaft lead smelting. This contributor also considered it unfortunate that the book does not mention the controversial subject of the behaviour of copper and zinc in the shaft smelting of lead-containing materials, although an article by Egunov, Tseyller, Loskutov et al had appeared in "Tsvetnye Metally" well before the publication of the book. M.V. Yakushin (of the Research Institute) complained of the out-of-date material used by the author in describing plant, as well as the presentation of misleading information on design. V.M. Andreev, of the Ust-Kamengorsk lead-zinc Combine (Ust-Kamenogorskiy Svintsovo-Tsink-

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

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Discussion of the book by Prof. V.I. Smirnov "Shaft Smelting in the Metallurgy of Non-ferrous Metals", Metallurgizdat, 1955. (Cont.)

136-4-19/23

ovyy Kombinat) said that practice at his works contradicted Smirnov's statement that lead is only partly reduced and is lost in the form of the oxide. Other faults indicated were the incorrect treatment of high top temperature and the formation of scaffolds. V.P. Obcharenko (of the Research Institute) complained of the scanty attention given to combustion aspects of smelting, especially the use of oxygenated blast. N.N.Kubyshev of the Ust-Kamenogorsk Combine considered that Chapter 8 of the book contained mistakes and made recommendations contrary to works practice. M.A. Abdeev (the Altai Institute) suggested that revised editions of the book should contain information on the latest works practice and more information on the structure of mattes and slags in lead smelting. B.S. Khristoforov (The Research Institute) commends the author for including methods of analysis, but considers that the method of Oldwright and Miller might well be omitted from later editions as being misleading. The last contribution reported is by another member of the Research Institute staff, A.P. Sychev. He stated that although the book was on the whole of great interest, it contained many inaccuracies which should be corrected in later editions; nor

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Discussion of the book by Prof. V.I. Smirnov "Shaft Smelting in the Metallurgy of Non-ferrous Metals", Metallurgizdat, 1955. (Cont.)

136-4-19/23

was sufficient attention given in the book to economical indices of shaft smelting. Summing up, the authors state that in spite of its defects the book will be useful to metallurgists dealing with shaft smelting.

AVAILABLE:

Card 4/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYAKINA, V.V., otv. za vypusk; VERINA, G.P., tekhn.red.

[Tariff manual] Tarifnye rukovodstva. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia. Nos.25-A and 25-B. [Regulations relating to the Agreement on International Combined Through Rail-Water Freight Transportation and service instructions for the Regulations on International Combined Through Rail-Water Freight Transportation; effective as of August 1, 1960] Pravila k soglasheniiu o mezhdunarodnom priamom smeshannom zheleznodorozhno-vodnom gruzovom soobshchenii (MZhVS) i sluzhebnaia instruktsiia k pravilam MZhVS. Deistvuiut s 1 avgusta 1960 g. 1960. 41 p. (MIRA 13:10)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Railroad law, International) (Railroads--Rates)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYAKINA, V.V., otv. za vypusk; VERINA, G.P., tekhn.red.

[Instructions on the making up freight shipments in international railroad transportation] Instruktsiia o poriadke oformleniia perevozok gruzov v mezhdunarodnykh zheleznodorozhnykh soobshcheniiakh. Moskva, Gos.transp.zhel.-dor.izd-vo, 1960. 55 p. (Tarifnoe rukovodstvo no.21). (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Railroads--Freight)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ANDREYEV, A.Ye.; RODYAKIN, V.V.; VAYNSHTEYN, G.M.; KARGIN, V.M.; BRODSKIY, E.Ye.; BOYKO, Yu.N.; TKALICH, V.S.; KHABAROVA, N.P.

Changes in the quality of magnesium during the refining process. Tsvet. met. 37 no.10:44-47 O '64. (MIRA 18:7)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

SANDLER, R.A.; STRELETS, Kh.L.; GARMATA, V.A.; RODYAKIN, V.V.; ARUTYUNOV, E.A.; PETRUN'KO, A.N.; SOKOLOV, I.I.; Prinimali uchastiye: USTINOV, V.S.; KISELEV, O.G.; PEREPICHAY, A.G.; MARICHEV, A.A.; YELISEYEVA, I.B.; SMOL'SKIY, I.Ya.; GOLOV, A.G.

Effect of the rate of feeding titanium tetrachloride into the reactor on the indices of the magnesium thermic reduction process. TSvet. met. 37 no.10:58-60 O '64. (MIRA 18:7)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ZALKIND, Ye. S;RODYAKINA, V. Ya.

Third blood fraction in skin diseases. Vest. vener., Moskva no.2:54 Mar-Apr 1952. (CIML 22:2)

1. Professor for Zalkind. 2. Of Leningrad Institute for Blood Transfusion.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

VOROB'YEV, A.A.; BRON, O.B.; RODYAKINA, V.Ya.

Effectiveness of various programs for immunizing people with purified adsorbed tetanus anatoxin. Zhur.mikrobiol.epid. i immun. 27 no.7: 79-86 Jy '56. (MLRA 9:9)

1. Iz Voyenno-morskoy meditsinskoy akademii i Leningradskoy gorodskoy stantsii perelivaniya krovi.

(TETANUS, immunol. prev. and control
one-stage & repeated vacc. with purified adsorbed tetanus anatoxin)

(VACCINES AND VACCINATION
tetanus vacc., one-stage & repeated, with purified adsorbed tetanus anatoxin)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Rodyakina, V.Ya.

VOROB'YEV, A.A.; ASHKINAZI, L.I.; RODYAKINA, V.Ya.; RAFAL'SON, D.I.; BRON, O.B.

Change in the blood as an index of the general reaction of the organism to the administration of precipitated anatoxin. Zhur. mikrobiol.epid. i immun. 28 no.1:84-89 Ja '57. (MLRA 10:3)

1. Iz Leningradskoy gorodskoy stantsii perelivaniya krovi i Voyenno-morskoy meditsinskoy akademii.

(CLOSTRIDIUM TETANI,
toxin, eff. on blood (Rus))
(BLOOD,
eff. of Clostridium tetani toxin (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

CHULKOV, N.; ROD'YAKOVA, R.; MOCHALOV, K.

Adult Education

"Work with youth, "Klub, No. 1., 1952

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

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, A. A. Cand Tech Sci -- (diss) "Alluminum alloy AL 6-4 as a substitute for babbitts in the repair of bearings of automobile and tractor engines." Mos,1957. 11 pp; 1 sheet of tables 22 cm. (Min of Agr USSR. Mos Inst of Mechanization and Electrification of Agr im V.M. Molotov), 100 copies. (KL, 22-57, 106).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, A.I.

Stratigraphy of Devonian red beds in the Saylyugem Range. Mat.po geol.Zap.Sib. no.63:103-115 '62. (MIRA 16:10)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, Aleksandr Aleksandrovich, kand. tekhn. nauk; SHERMAN, R., ~~red.; ZLOBIN, M., tekhn.~~ red.

[Modern methods for repairing motor vehicles] Sovremennye metody remonta avtomobilei. Alma-Ata, Kazakhskoe gos.izd-vo, 1962. 157 p. (MIRA 16:12)
(Motor vehicles--Maintenance and repair)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

SOV/137-57-11-22536 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 272 (USSR)

AUTHOR: Rodygin, A.A.

TITLE: Use of the Aluminum Alloy AL-6-4 to Replace Babbitt in the Overhaul of Tractor-engine Bearings (Alyuminiyevyy splav AL-6-4 kak zamenitel' babbitov pri remonte podshipnikov avto-traktornykh dvigateley)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree of Candidate of Technical Sciences, presented to the Mosk. in-t mekhaniz. i elektrifik. s. kh. (Moscow Institute for Rural Mechanization and Electrification), Moscow, 1957

ASSOCIATION: Mosk. in-t mekhaniz. i elektrifik. s. kh. (Moscow Institute for Rural Mechanization and Electrification), Moscow

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, A.I.; VYLTSAN, I.A.

Tectonic-denudation interval within the "metamorphic series" of the Bashkaus-Culyshman interfluve (Gornyy Altai). Geol. i geofiz. no.3:51-61 '65. (MIRA 18:6)

1. Tomskiy gosudarstvennyy universitet imeni Kuybysheva.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, A.I.

Spherulitic lavas in acid Devonian effusives of the northern slope of the Saylyugem Range. Izv. AN SSSR. Ser.geol. 27 no.6: 12-22 Je '62. (MIRA 15:5)

1. Tomskiy gosudarstvennyy universitet.
(Saylyugem Range—Rocks, Igneous)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, A.I.

Age of the Aksay effusive-sedimentary series in the Saylyugem Range. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.2:101-104 '59. (MIRA 12:8)

1. Tomskiy universitet, geologo-geograficheskiy fakul'tet, kafedra istoricheskoy geologii i paleontologii.
(Saylyugem Range--Geology, Stratigraphic)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, A.2

15-1957-7-8922

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7, p 5 (USSR)

AUTHOR: Larishchev, A. A., Rodygin, A. E.

TITLE: Some Examples of the Use of a Relief Topogeopolygon in Teaching Geological Mapping and Structural Geology. (Nekotoryye primery ispol'zovaniya rel' yefnogo topogeopoligona v prepodovanii geologicheskogo kartirovaniya i strukturnoy geologiyi)

PERIODICAL: Tr. Tomskogo un-ta, 1956, Nr 135, pp 82-92

ABSTRACT: The use of the relief topogeppolygon in teaching allows us to introduce the student to the basic methodology of geological mapping in the field. As an example the authors present one of the problems which can be solved by using a relief topogeopolygon. Numbers designating outcrops are written upon a topogeopolygon and for each number a student is given a specially selected collection of rock samples and paleontological remains, and data on the elements of deposition,

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

15-1957-7-8922

Some Examples of the Use of a Relief Topogeopolygon in Teaching Geological Mapping and Structural Geology. (Cont.)

the stratigraphical sequence, the thickness of separate strata, etc. The final aim of this problem is to construct a geological map upon the topographical base of a given topogeopolygon, and also to produce a complete description of the geological structure and the history of the geological development of the region.

A. L. Knipper

Card 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

12

Determination of butyric bacteria in milk. P. Rodygin. *Molochnaya Prom.* 10, No. 3, 27(1949).—The milk sample is warmed 0.5 hr. on a boiling water bath and incubated 36 hrs. at 36–8°; curdling indicates contamination by butyric bacteria. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACCESSION NR: AP4043258 S/0203/64/004/004/0788/0791

AUTHOR: Belikovich, V. V., Itkina, M. A., Rodygin, L. V.

TITLE: Determination of the electron concentration profile in the lower ionosphere from the frequency variation of absorption

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 4, 1964, 788-791

TOPIC TAGS: aeronomy, ionosphere, ionospheric electron concentration, ionospheric absorption, radio wave absorption, radiophysics, radioastronomy

ABSTRACT: Interest recently has increased in the method of determining the N(h) profile in the lower ionosphere from measurements of radio wave absorption at a number of frequencies. This method is based on the solution of an integral equation of the following form relative to N(h):

$$\Gamma(\omega)=2A\int_0^{h_0}\frac{N(h)\nu(h)}{\nu^2(h)+\omega^2}dh \qquad \left(2A=\frac{4\pi e^2}{mc}\right), \qquad (1)$$

where $\Gamma(\omega)$ is the integral absorption of radio waves of the frequency ω in the ionosphere to the height h_0; N(h) is the electron concentration at height h; $\nu(h)$ is the effective frequency of electron collisions at height h; and A is a numerical

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ACCESSION NR: AP4043258

factor. The solution of equation (1) has been obtained by other authors in the form of a polynomial of h, which does not correspond fully to real electron concentration profiles. The authors of this article have inversed equation (1), that is, a general formula has been derived for finding the N(h) profile from the $\Gamma(\omega)$ curve. A precise solution is obtained by use of a formula derived in the text, but an approximate formula, more convenient to use, is derived for practical purposes. Two examples of the use of this formula are given. It is noted that determination of the electron concentration in the region of heights 40-80 km requires absorption measurements in a very broad frequency range. Such measurements cannot be made by only a single method; it is desirable to make the measurements by both radioastronomical and pulse sounding methods. The radioastronomical method can be used for measurements at frequencies of > 5 Mc/s, corresponding to heights of 65 km and below. Considerable ionization at these heights arises at the time of strong isonospheric disturbances. It can be determined from data on anomalous absorption. At frequencies below 5 Mc/s absorption can be measured by the pulse sounding method. "The authors wish to thank Ye. A. Benediktov and N. A. Mityakov for criticism and useful comments." Orig. art. has: 13 formulas, 2 figures and 1 table.

ASSOCIATION: Radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete (Radiophysics Institute at Gor'kiy State University)

Card 2/3

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACCESSION NR: AP4043258

SUBMITTED: 04Jan64 ENCL: 00

SUB CODE: ES NO REF SOV: 005 OTHER: 001

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, L.V.

Existance of an invariant torus for a system of ordinary differential equations with a small parameter. Izv. vys. ucheb. zav.; radiofiz. 3 no.1:116-129 '60. (MIRA 13:12)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

(Differential equations)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACC NR: AT6022252 SOURCE CODE: UR/0000/66/000/000/0019/0025

AUTHOR: Belov, V. Ye.; Rodygin, L. V.

ORG: none

TITLE: Static theory of the cylindrical magnetron — Part 1. Bidromic conditions

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966, Sektsiya elektroniki. Doklady. Moscow, 1966, 19-25

TOPIC TAGS: magnetron, magnetron theory SHF, electron motion

ABSTRACT: The stationary travel of electrons in a cylindrical magnetron is described by a system of four differential equations; after transformations and an independent-variable replacement, the resulting system of approximate differential equations is solved. Analysis of the solution brings about these conclusions: (1) The radial movement of electrons has a pattern of "dashing": upon emergence

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from the cathode, the electron gradually accelerates, then dashes, and then decelerates to stop; (2) The total electron velocity also contains a transverse component which is small only in the near-cathode region; when the electron dashes, the transverse component exceeds the radial component by several times; hence, it is safe to assume that the electrons move along Brillouin trajectories. Limits of applicability of the approximate solutions were determined by a numerical integration of the original system of differential equations on a digital computer. Orig. art. has: 2 figures and 14 formulas.

SUB CODE: 09 / SUBM DATE: 09Apr66
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Card 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

ACC NR: AT6022253 SOURCE CODE: UR/0000/66/000/000/0026/0028

AUTHOR: Belov, V. Ye.; Rodygin, L. V.

ORG: none

TITLE: Static theory of the cylindrical magnetron — Part 2. Multilayer conditions

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya elektroniki. Doklady. Moscow, 1966, 26-28

TOPIC TAGS: magnetron, magnetron theory, SHF

ABSTRACT: Over a virtual cathode, the parameter "a" in Slater's nonlinear equation: $\frac{d}{d\xi}\left(\xi\frac{d\xi^2}{d\xi}\right)=\frac{a}{\xi}-\left(\xi+\frac{1}{\xi^3}\right)$, can take on any value (Microwave Electronics, 1951, para. 13.7, MIT). The operating conditions requiring two or more

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parameters "a" for their description are called "multilayer," the layer being a part of the electron cloud situated between the adjacent surfaces of the cathode, virtual cathodes, and the critical surface. All layers, except for the next-to-cathode layer, are called "suspended." With $a > 0$, the suspended state has one velocity maximum and cannot be limited on top by a virtual cathode. With $a = 0$, the suspended state is a Brillouin stream. The possibility of three distinct sets of operating conditions in a cylindrical magnetron depending on H and ξ (non-dimentional radius) is pointed out. Orig. art. has: 4 formulas.

SUB CODE: 09 / SUBM DATE: 09Apr66 / ORIG REF: 002 / OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

16.3400

S/020/60/132/03/14/066

AUTHORS: Pontryagin, L.S., Member of the Academy, and Rodygin, L.V.

16

TITLE: Periodic Solution of a System of Ordinary Differential Equations With a Small Parameter Attached to the Derivatives

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 3, pp. 537-540

TEXT: The authors consider the system

$$(1) \qquad \varepsilon \frac{dx}{dt} = f(x,y) \quad , \quad \frac{dy}{dt} = g(x,y)$$

where $x = (x_1, \ldots, x_k)$, $y = (y_1, \ldots, y_l)$, $\varepsilon > 0$, the vector functions f and g are three times continuously differentiable. It is assumed that the multipliers $\lambda_1, \ldots, \lambda_{k-1}$ of the system in variations

$$(3) \qquad \dot{\xi} = f_y(x,y)\big|_{x=x^*} \xi \quad ,$$

where $f_y(x,y) = \left\| \frac{\partial f_i(x,y)}{\partial y_j} \right\|$ and $x^* = x^*(\tau, y)$ is the single non-

Card 1/3

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Periodic Solution of a System of Ordinary Differential Equations With a Small Parameter Attached to the Derivatives S/020/60/132/03/14/066

degenerated periodic solution (period $T(y)$) of

$$(2) \qquad \frac{dx}{d\tau} = f(x,y) ,$$

y = const - parameter, are different from 1 except of one multiplier. The authors introduce the "averaged system"

$$(4) \qquad \frac{dy}{dt} = \overline{g}(y) = \frac{1}{T(y)} \int_0^{T(y)} g(x^*(\tau,y),y)d\tau = \int_0^1 g\left[X(\varphi,y),y\right] d\varphi$$

where $X(\varphi,y) = x^*(T(y)\varphi,y)$ and they assume that (4) has a non-degenerated position of equilibrium y_0.

Theorem : Under the given assumptions, for sufficiently small ε in the neighborhood of the cycle $\{x^*(\tau,y_0),y_0\}$, (1) has a unique periodic solution $\{x(t,\varepsilon), y(t,\varepsilon)\}$ with the properties : Its period is $\varepsilon T(y_0) + O(\varepsilon^2)$ and it holds $|y(t,\varepsilon) - y_0| = O(\varepsilon)$. Here there exists a function $\varphi(t,\varepsilon)$ ("phase"), smoothly depending on t, with the property that

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, L. V.

Dissertation defended for the degree of Candidate of Physicomathematical Sciences at the Mathematical Institute imeni V. A. Steklova 1962:

"One Class of Systems of Ordinary Differential Equations with a Small Parameter in Derivatives."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

68972

~~16(1)~~ 16.3400 S/020/60/131/02/010/071

AUTHORS: Pontryagin, L.S., Academician, and Rodygin, L.V.

TITLE: Approximate Solution of a System of Ordinary Differential Equations Involving a Small Parameter With the Derivatives

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 255-258 (USSR)

ABSTRACT: The authors consider the behavior of the solutions of the system of differential equations

$$(1) \qquad \frac{dx}{dt} = f(x,y), \quad \frac{dy}{dt} = g(x,y),$$

where $x=(x_1,\ldots,x_k)$, $y=(y_1,\ldots,y_l)$ on a finite interval. The proofs of the results announced at the Third Mathematical All-Union Congress 1956 are given (compare [Ref 1]). There is 1 Soviet reference.

SUBMITTED: December 11, 1959

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

М. Б. Голант,
А. С. Тагер

О механизме работы параметрических усилителей СВЧ, в которых используются потоки свободных электронов.

Э. О. Саакян

О предельных параметрах мощных электронных приборов миллиметрового диапазона.

9 июня

(с 18 до 22 часов)

А. Д. Власов

О методе граничной частоты в теории электронных пучков.

Г. А. Зейтленок

О взаимодействии электронного потока с электрическим полем.

М. Б. Голант

Метод расчета параметров электронно-лучевых СВЧ генераторов нерезонансного типа.

Л. И. Лошаков,
Ю. И. Пчельников

Об определении коэффициента управления для постоянных распространения в замедляющей системе при наличии электронного пучка.

22

А. В. Гапонов.

Взаимодействие электромагнитных волн с непрямолинейным электронным потоком.

10 июня

(с 10 до 16 часов)

А. И. Терещенко,
В. А. Коробкин

О возможности улучшения параметров резонаторной системы магнетрона посредством изменения формы резонаторов.

М. И. Кузнецов,
Л. В. Родыгин

К вопросу о механизме флюктуаций в магнетроне.

М. И. Кузнецов,
М. И. Барбасов,
В. Е. Нечаев

Экспериментальные исследования флюктуаций в магнетроне.

И. М. Блейвас,
Я. И. Мастечкин,
В. В. Хомич

Малогабаритный траектограф для решения уравнений движения заряженных частиц в электрических и магнитных полях.

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report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNORiE), Moscow, 8-12 June. 1959

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

USSR/Physics - Phase Plane, Multivibrator 21 Nov 51

"Theory of the Symmetric Multivibrator," N. A. Zheleztsov, L. V. Rodygin, Gor'kiy Res Phys-Tech Inst

"Dok Ak Nauk SSSR" Vol LXXXI, No 3, pp 391-394

On the example of the sym multivibrator shown in the diagram the authors give a method of considering discharge oscillations on the phase plane, in which the laws governing jumps in voltage are obtained from approx considerations of the behavior of the trajectories in the 4-dimensional phase space reflecting the states of the multivibrator

214T78

and taking into consideration the small parasitic capacitances C_a and C_g. Submitted by Acad A. A. Andronov 24 Sep 51.

214T78

RODYGIN, L. V.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

L 24457-65 EWT(1)/EEC-4/EWA(h) Peb

ACCESSION NR: AP5005667 S/0223/64/000/010/0004/0008

25

AUTHOR: Panchenko, F. Ye. (Head of the signalization and communications service of the East Siberian Railroad); Rodygin, N. A. (Engineer of the railroad laboratory); Fomin, V. N. (Engineer of the railroad laboratory); Shtul'man, M. A. (Chief engineer)

TITLE: Use of waveguide conduits to assist radio communication on AC-electrified railroads

SOURCE: Avtomatika, telemekhanika i svyaz', no. 10, 1964, 4-8

TOPIC TAGS: waveguide, radio communication system, electric interference

Abstract: The introduction of AC electrification has presented very serious problems for existing automation, telemechanical and communication facilities. This is illustrated by the case of radio station ZhR-3, serving the East-Siberian Railway; on electrified portions of this line, the station encounters very high electrical interference. Theoretically the difficulty could be overcome by shifting to VHF, but in the specific range (150-160 Mc) Soviet radio technology has not been able to assure reliable and simple operation of stations. ZhR-3 has therefore taken up the use of waveguides on difficult segments of the route.

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ACCESSION NR: AP5005667

This decision follows extensive research made during 1960-1962 on the East Siberian RR, by various research groups and the line's laboratory; the results of this research were reported in an article by A. A. TANTSYURA, in the No 11, 1963 issue of this periodical.

Waveguide conduits suspended from overhead supports were proposed and introduced into service as early as 1957, on the Irkutsk-Slyudyanka RR (N. A. RODYGIN; this periodical, No 1, 1959), where they have demonstrated their superiority over multiwire conductors ever since; in 1963, the entire Irkutsk-Zima stretch of 240 km had to be similarly equipped.

The technical advantages and problems associated with waveguide conduits are covered in some detail by the present article. Orig. art. has 5 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000 JPRS

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

PANCHENKO, F.Ye.; RODYGIN, N.A., inzh.; FOMIN, V.N., inzh.; SHTUL'MAN, M.A.

Waveguide line for train communication in districts with a.c. traction. Avtom., telem. i sviaz' 8 no.10:4-8 O '64. (MIRA 17:11)

1. Nachal'nik sluzhby signalizatsii i svyazi Vostochno-Sibirskoy dorogi (for Panchenko). 2. Glavnyy inzh. sluzhby signalizatsii i svyazi Vostochno-Sibirskoy dorogi (for Shtul'man).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, N.A.

Radio communication of trains by means of wave guide conductors. Avtom.telem. i sviaz' 3 no.1:21-23 Ja '59. (MIRA 12:1)

1. Laboratoriya signalizatsii i svyazi Vostochno-Sibirskoy dorogi.

(Railroads--Electronic equipment)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGIN, N.A., jt. ed.

A hydrological survey of the Donets Basin. Moskva, Geol. izd-vo Glav. geologo-razvedochnogo upr. 1930. 292 p. maps (44-25435)

NN

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYGINA, A.M. [Rodyhina, A.M.] prof.; MAKUKHINA, A.I., ordinator; SAMCHENKO, I.M., vrach

Etiology of blindness in childhood. Ped., akush. i gin. 23 no.1: 20-23 '61. (MIRA 14:6)

1. Kafedra oftal'mologii (zaveduyushchiy - prof. A.M.Rodygina [Rodyhina, A.M.]) L'vovskogo meditsinskogo instituta (direktor - prof. L.N.Kuzmenko).
(CHILDREN, BLIND)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KOLESNIKOVA, R.S.; RODYGINA, G.V.; EDEL'SHTEYN, S.I.

Use of penicillin aerosols in chronic suppurative processes of the lung. Khirurgiia 32 no.8:39-41 Ag '56. (MLRA 9:12)

Iz fakul'tetskoy khirurgicheskoy kliniki imeni S.I.Spasokukotskogo (zav. - prof. A.N.Bakulev) II Moskovskogo meditsinskogo instituta imeni I.V.Stalina i otdela eksperimental'noi terapii (zav. - prof. Z.V.Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(LUNG DISEASES, ther.
penicillin aerosols in chronic suppuration)
(PENICILLIN, ther. use
chronic suppuration of lungs, admin. in aerosol form)
(AEROSOLS, ther. use
penicillin in chronic suppuration of lungs)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

STOPICHEV, S.G., kand. tekhn. nauk (Khabarovsk); BALALAYEV, S.V., inzh. (Khabarovsk); RODYK, V.V., inzh. (Khabarovsk)

Using the electronic digital computer for the computation of plans for makihg up trains. Zhel. dor. transp. 45 no.3:74-76 Mr '63. (MIRA 16:6)

(Railroads—Making up trains)
(Ural computer)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

GTESFL No. 45

Rodyonov, S.F., Pavlova, E.N. and Karetnikova, I.B., Photon counter with a cesium-antimony cathode, 657

Akademiya Nauk S.S.S.R., Doklady Vol. 64 No. 5

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODIONOV, V. M.

Synthesis of some β-alkylamino- and β-aralkylamino-β-phenylpropionic acids. V. M. Rodionov and E. V. Yavorskaya. *Zhur. Obshchei Khim.*, 25, 2147-50(1955).—The intermediate in the prepn. of $MeNHCHPhCH_2CO_2H$ (cf. Evans and Johnson, *C.A.* 25, 516) is not $MeNHCHPhCH(CO_2H)_2$ but the *$PhCH:C(CO_2H)_2.MeNH_2$* (I.*$MeNH_2$*). Refluxing 4 g. PhCH:NMe and 3.2 g. $CH_2(CO_2H)_2$ (II) in 20 ml. dry EtOH gave in 2-3 min. 41.7% I.*$MeNH_2$*, m. 138°; it decolorized Br water and reduced $KMnO_4$; treated with base it gave $MeNH_2$; treated with HCl it gave $PhCH:C(CO_2H)_2$ (IIa), m. 190-1°. The same product formed on mixing the 2 components in EtOH. Refluxing I.$MeNH_2$

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4 hrs. in dry EtOH gave 72.3% cinnamic acid (III). Refluxing PhCH:NCH$_2$Ph (IIIa) with II briefly in dry EtOH gave a ppt. which slowly dissolved, but 1.5 hrs. heating, followed by concn. and treatment with Et$_2$O gave 2.1 g. solid; this with HCl gave III; purification of the crude product with 70% EtOH gave 13.1% *PhCH$_2$NHCHPhCH$_2$CO$_2$H* (IV), m. 177°; evapn. of the Et$_2$O-EtOH residual soln. and treatment with HCl gave 73% cinnamic acid. The initially formed solid ppt. is I.*PhCH$_2$NH$_2$*, m. 138°; with HCl it gave IIa; long heating with EtOH gave 71% III. II, IIIa, and dry C$_6$H$_6$ refluxed 8 hrs. gave 45.9% IV and 31.6% III. Heating 2 g. PhCH:NEt (IVa) with 1.5 g. II in dry EtOH 4 hrs. gave 72.9% I.*EtNH$_2$* (IVb), m. 145°; IVb with HCl gave IIa, m. 102°; refluxing IVb 12 hrs. in EtOH and acidifying with HCl gave 72% III; the mother liquor from sepn. of IVb and extn. with Et$_2$O gave 5.15% EtNHCHPhCH$_2$CO$_2$H (V), m. 167–8°. Refluxing IVa with IIa in C$_6$H$_6$ 4 hrs. gave 10% V. V with HCl and NaNO$_2$ gave *ONNEtCHPhCH$_2$CO$_2$H*, m. 69–70°. II, PhCH:NPr, and C$_6$H$_6$ refluxed 7 hrs. gave 40.5% *PrNHCHPhCH$_2$CO$_2$H* (VI), m. 176–7° (from 50% EtOH), and 26% III; refluxing the reactants in EtOH 4 hrs. gave 12.56% VI and 57% III. VI and HNO$_3$ gave *ONNPrCHPhCH$_2$CO$_2$H*, yellow needles, no m.p. given. G. M. Kosolapoff

2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYONOV, V. V.

Bee Culture

Raising productivity of bee colonies. Pchelovodstvo 29 No. 1, 1952.

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

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

69421

S/141/60/003/01/013/020
E031/E535

24,2120

AUTHOR: Rodygin, L. V.

TITLE: On the Existence of an Invariant Torus for a System of Ordinary Differential Equations Containing a Small Parameter

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1960, Vol 3, Nr 1, pp 116-129 (USSR)

ABSTRACT: The equations considered are of the form

$$\varepsilon dx_i/dt = f_i(x_i, y_j, \varepsilon), \quad dy_j/dt = g_j(x_i, y_j, \varepsilon)$$

$$(i = 1, \ldots k; \quad j = 1, \ldots, \ell),$$

where ε is the small parameter. By considering the vector equation $dx/d\tau = f(x, y, 0)$, with y fixed in some domain, which is assumed to have a coarse periodic solution, the existence is proved of solutions of the given system of equations, the trajectories of these solutions being near to surfaces which in the present case are toruses. This case is of great practical

Card 1/3

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

69421

S/141/60/003/01/013/020
E031/E535

On the Existence of an Invariant Torus for a System of Ordinary Differential Equations Containing a Small Parameter

interest since a number of problems of the theory of oscillations can be reduced to systems of this type. New coordinates φ, u and $\tau = t/\varepsilon$ are introduced, the transformation being similar to that used in Refs 2 and 5. A point reflection of some section $\sum(\varphi_0)$ of a neighbourhood of the torus is introduced and the existence and uniqueness are proved of the following invariant manifolds: 1) a close curve ℓ_ε which tends to the curve $\varphi = \varphi_0$ on the torus as ε tends to zero; 2) local subspaces s_ε^- and s_ε^+ such that the points of s_ε^- approach ℓ_ε as the reflection is repeated and the points of s_ε^+ approach ℓ_ε as the inverse reflection is repeated. On the basis of these results and by the method of reflected space curves, the sufficient conditions for the existence of the invariant torus are derived. In a mathematical appendix some auxiliary

Card 2/3

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S/141/60/003/01/013/020
E031/E535

On the Existence of an Invariant Torus for a System of Ordinary Differential Equations Containing a Small Parameter

propositions touching on questions of smoothness with respect to a parameter are proved. Finally, it is noted that certain previously studied systems of the given type can be reduced to special cases of a system which is derived in the paper from the given system, so that a generalization of known results can be obtained.
There are 8 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Radiophysics Scientific Research Institute of the Gor'kiy University)

SUBMITTED: July 20, 1959

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

VARDAPETYAN, A., kand. ist. nauk; GALUSTOV, A., dotsent;
RODYUKOV, V., red.

[Forty years of Soviet Armenia] 40 let Sovetskoi Armenii. Ashkhabad, Ob-vo rasprostraneniiu polit. i nauchnykh znanii Turkmenskoi SSR, 1960. 27 p. (MIRA 15:7)
(Armenia—Economic conditions)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUKOV, V.I.; SHUMEYKO, T.I., red.; PURLIYEVA, M.K., tekhn. red.

[Economic relations of Soviet Turkmenistan] Ekonomicheskie sviazi sovetskogo Turkmenistana. Ashkhabad, Turkmengosizdat, 1963. 82 p. (MIRA 16:12)
(Turkmenistan--Industries)
(Turkmenistan--Freight and freightage)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RATNER, G.L., kandidat meditsinskikh nauk; RODYUKOVA, L.N.

Unusual case of gastric calculus. Vest.rent.i rad. no.1:89-91 Ja-F '55. (MLRA 8:5)

1. Iz bol'nitsy No.2 Komsomol'ska-na-Amure (glavnyy vrach F.Ya. Foz).

(BEZOARS, case reports)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUKOVA, L.N.

Significance of the symptom of the horizontal fluid level in the intestines. Vest. rent. i rad. 33 no.6:83-85 N-O '58. (MIRA 12:1)

1. Iz bol'nitsy No.2 v Komsomol'ske-na-Amure (glavnyy vrach M.I. Shevchuk)
(INTESTINES, radiography
horizontal fluid level, clin. significance (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Rodyukova, E.N.

F-1

USSR/Microbiology - General Microbiology.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14692

Author : Rodyukova, E.N.
Inst : -
Title : Effect of Bile on Hemolytic and Viridans Streptococci.

Orig Pub : Tr. Tomskogo n.-i. in-ta vaktsin i syvorotok, 1956, 8, 339-342

Abstract : 5 strains of hemolytic and 5 of viridans streptococci were cultivated for 10 days in a serous, sugar, beef-peptone broth with 40, 60 and 80% bile at 37°. In a medium containing 40% bile the cultural properties of strains were unchanged. Higher concentrations of bile (60 and 80%) inhibited growth of streptococci by the 8-10th day of observation. In further transfers of cultures on the same media it was established that bile exerts a bactoriostatic and bactericidal effect on streptococci, and the latter barely

Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUKOVA, Ye. N. Cand Med Sci -- (diss) "Data on the selection of producers of antidiphtheria and antitetanus serums." Tomsk, 1959. 15 pp (Min of Health RSFSR. Tomsk State Med Inst), 200 copies (KL, 44-59, 130)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Rodyukova, Ye. N.

PHASE I BOOK EXPLOITATION SOV/4146

Tomsk. Nauchno-issledovatel'skiy institut vaktsin i syvorotok

Trudy, tom 11 (Transactions of the Tomsk Scientific Research Institute of Vaccines and Serums, Vol. 11) Tomsk, Izd-vo Tomskogo univ-ta, 1960. 327 p. 1,700 copies printed.

Editorial Board: B.G. Trukhmanov (Resp. Ed.) Director of the Tomsk Scientific Research Institute of Vaccines and Serums; S.P. Karpov (Deputy Ed.) Professor; Ye. I. Kleytman (Secretary); M.A. Mastenitsa; and V.M. Popov (Deceased); Tech. Ed.: A.T. Osovskiy.

PURPOSE: This collection of articles is intended for biologists, physicians, and medical personnel.

COVERAGE: The collection contains 18 papers on problems of epidemiology and microbiology and 33 reports on the theory and practice of immunology. To avoid repetition of names of organizations in the table of contents the following affiliations will be abbreviated: Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok (Tomsk Scientific Research Institute of Vaccines and Serums) as "Tomsk Institute"; Tomskiy meditsinskiy institut as "Tomsk Medical Institute"; Kafedra mikrobiologii Tomskogo meditsinskogo instituta (Department of Microbiology of the Tomsk Medical Institute) as "Tomsk Department of Microbiology."

35. Burenkova, L.A. (Tomsk Institute). On the Preparation of a Listerial Antigen for Indirect Hemagglutination Reaction 225

36. Karpov, R. [Students' Scientific Circle at the Department of Microbiology of the Tomsk Medical Institute]. Indirect Hemagglutination Reaction as a Method for Determining Growth of Antibodies on Listeria 228

37. Rodyukova, Ye. N. (Tomsk Institute). Data for the Production of Antiencephalitis Serum 232

38. Trukhmanov, B.G., and Ye.N. Rodyukova (Tomsk Institute). Use of Encephalitis Vaccine as an Antigen in the Production of Antiencephalitis Serum 238

39. Preger, S.M., A.P. Dutova, and N.G. Turlyantseva (Tomsk Institute). Study of Several Causes of the Pyrogenic Action of Serums Concentrated by the "Diatherm 3" Method [of the Institute of Epidemiology and Microbiology imeni Honorary Academician N.F. Gamaleya of the Academy of Medical Sciences USSR] and of the Possibilities of Eliminating It 243

40. Ovchinnikova, L.D., N.I. Ponomarenko, and N.A. Sonchik (Tomsk Institute). Experience Producing Embryonic Vaccine Against Spring-Summer Tick Encephalitis 250

41. Trukhmanov, B.G., L.A. Yegorshina, and N.F. Zel'tina. On the Reactive Capacity of Preparations Against Spring-Summer Tick Encephalitis 255

42. Vasil'yeva, O.A. (Tomsk Institute; Department of Biochemistry of the Tomsk Medical Institute). Study of the Albumen Composition of Serum of Rabbit's Blood by the Method of Electrophoresis on Paper in Immunizing Them With Dysentery Vaccine Antigens 261

43. Vasil'yeva, O.A. (Tomsk Institute; Department of Biochemistry of the Tomsk Medical Institute). Immuno-Biochemical Parallels in Obtaining Sonne's Agglutinating Serum 266

44. Burenkova, L.A. (Tomsk Institute). On the Method of Preparing Listerial Agglutinating Serum 270

45. Burenkova, L.A. (Tomsk Institute). The Effect of Various Preservatives, Time, and Storage Conditions on the Quality of Listerial Agglutinating Serum 275

46. Burenkova, L.A. (Tomsk Institute). Data on Preparation of Listerial Typospecific Adsorbed Serums 280

47. Naumova, Ye.S. (Tomsk Institute). Accelerated Method for Obtaining Adsorbed Agglutinating Dysentery Serums 284

48. Vasil'yeva, O.A. (Tomsk Institute). The Significance of Morthiolate Antigen in the Production of Agglutinating Serums 288

49. Trukhmanov, B.G., Ye. I. Kleytman, and L.A. Yeroshina. On the Possibility of Using White Rats for Determining the Quality of Bacterial Preparations 292

50. Gerasimenko, A.P. (Tomsk Institute). Efficiency of the Method of Cutaneous BCG [Bacillus Calmette-Guérin] Vaccination in Tomsk 299

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUKOVA, YE. N.

USSR/General Problems of Pathology - Immunity. T-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12515

Author : Rodyukova, Ye.N.

Inst : Not given

Title : The Effect of Combined Immunizations on Horse Antiserum Producers.

Orig Pub : Tr. Tomskoro n.-i. in-ta vaktsin i syvorotok, 1956, 8, 269-271.

Abstract : When horses were immunized with a double tetanus-diphtheria anatoxin, there was no change in temperature, Hb, or serum protein compared to those immunized with a monoanatoxin.

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TRUKHMANOV, B.G.; RODYUKOVA, Ye.N.

Amount of antibodies in the blood of colts and in the milk of horses used in the production of encephalitis serum; Vop.virus. 6 no.2:149-151 Mr-Ap '61. (MIRA 14:6)

1. Tomskiy institut vakcsin i syvorotok. (ENCEPHALITIS) (MILK) (ANTIGENS AND ANTIBODIES)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUKOVA, Ye.N.

Immunological characteristics of serum producing horses selected by the method of compound immunization. Trudy Tom NIIVS 12: 222-225 '60 (MIRA 16:11)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUKOVA, Ye.N.

Data on the preparation of antiencephalitis serum. Trudy TomNIIVS 11:232-237 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok. (ENECEPHALITIS) (SERUM)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

TRUKHMANOV, B.G.; RODYUKOVA, Ye.N.

Using encephalitis vaccine as an antigen in the production of an antiencephalitis serum. Trudy TomNIIVS 11:238-242 '60.
(MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(ENCEPHALITIS) (SERUM)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODYUSHKIN, Ye.A.

Establish uniform certificates. Bezop. truda v prom. 2 no.7:37 Jl '58. (MIRA 11:9)

1. Inzhener-inspektor Tuymazinskoy rayonnoy gornotekhnicheskoy inspektsii Gosgortekhnadzora.
(Oil fields--Safety measures)

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Bt

B-I-3

[illegible] V. [illegible] and V. [illegible] [illegible] No. 11— [illegible] (170—770 pts.) [illegible] To produce [illegible] pts. of the $PhNO_2$ [illegible] (i) is filtered through infusorial earth, [illegible] pts. of the filtrate; [illegible] by treating 80 pts. of [illegible] followed by [illegible] of white oil to 70 pts. of the filtrate. Ch. Abs. (c)

COMMON ELEMENTS

COMMON VARIABLES INDEX

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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3RD AND 4TH ORDERS

2ND LETTER

1ST AND 2ND LETTER

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3RD AND 4TH ORDERS

BC

B-1-2

BAIKAL OZOKERITE. V. E. Tokmanov and V. D. Rodzaevskaja (O.N.T.I. Gorno-Geol.-Neft. Izdat., 1934, 262--269).--Analytical data and properties are recorded.
Ch. Abs. (e)

COMMON ELEMENTS

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

PROCESSES AND PROPERTIES INDEX

S

3967. Structure of SOLIDIFIED MELTS OF PARAFFIN AND CERESIN. Rodzaevskaya, V. D. (Neftyanoe Khoz., 1947, vol. 25, (3), 61-2; Chem. Abstr., 1947, vol. 41, 6802). Synthetic ceresin having a dropping point of 112° and synthetic paraffin having a dropping point of 42° crystallize like those petroleum origin. Their mixtures upon solidification have a typical ceresin structure (fine needles) if the paraffin content is less than 70% i.e. they are solid solutions of paraffin in ceresin. Ceresin is insol. in paraffin. The 70-30 mixture shows the microcryst. structure of a typical eutectic. Mixtures containing over 70% paraffin show under the microscope the ribbonlike paraffin crystals among small, poorly developed crystals of the eutectic.

C.A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Baikal ozocerite. V. E. Tokmanov and V. H. Rodzevskaya. *O. N. T. I. Gorno-Geol.-Neftyanoe Izdat., Crude Oils, Bitumens and Gases from Non-Caucasian Deposits* **1934**, 203-9.—Baikal ozocerite, m. 53°, contains alcohol-insol. waxy substances 7.02, sol. substances 60.18, viscous tar 32.41 and admixts. (earth) 0.39%. The bitumen (contg. the ozocerite) yielded 43.10% of ozocerite in an ether extn. It had the following properties: sp. gr. at 20° 0.973, Ubbelohde m. p. 30.4°, Richardson penetration (25°/100 g.) 32, ceresin (Holde) 50.51% (m. p. 36.6°), fuller's earth resins 32.6% (sp. gr. 1.010), oils (Marcusson) 58.20% (sp. gr. 0.950; m. p. 36.0°), S (Eschka) 0.376%, paraffin (Holde-Sachanen) 30.85% (m. p. 41°), paraffin (Engler-Holde) 8.07% (m. p. 51.5°). In a steam distn. of the oils (18.3%), the residue had a sp. gr. of 0.970, Ubbelohde m. p. 41.5°, Richardson penetration 25°, Marcusson oils 64.34% (on the residue), m. p. 38° and sp. gr. at 18° 0.949. Asphalts were absent. It is an ozocerite of an inferior quality. A. A. B.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

PROCESSES AND PROPERTIES INDEX

2

The structure of solidified melts of paraffin and ceresin. V. D. Rodsaevskaya. *Neftyanoe Khoz.* 25, No. 3, 61-2 (1947).—Synthetic ceresin having a dropping point of 112° and synthetic paraffin having a dropping point of 42° crystallize like those of petroleum origin. Their mixts. upon solidification have a typical ceresin structure (fine needles) if the paraffin content is less than 70%, i.e. they are solid solns. of paraffin in ceresin. Ceresin is insol. in paraffin. The 70-30 mixt. shows the microcryst. structure of a typical eutectic. Mixts. contg. over 70% paraffin show under the microscope the ribbonlike paraffin crystals among small, poorly developed crystals of the eutectic.

Bruno C. Metzner

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

22

The petrolatum problems in Russia in connection with the new sources of raw material and new refining methods. V. E. Tokmanov and V. D. Rodiaevskaya. *Azerbaidzhanskoe Neftyanoe Khozyaistvo* 1934, No. 11-12, 107-13.—The following method for the prepn. of petrolatum is recommended: Crude petrolatum (170-770 parts) is treated with 150-750 parts $PhNO_2$; to produce a final yellow petrolatum (a) 80 parts of the $PhNO_2$-treated product is filtered through 10 parts of infusorial earth or another adsorbent, followed by filtration and addn. of 50 parts of oil to 75 parts of the filtrate; (b) white petrolatum is prepd. by treating 80 parts of the above $PhNO_2$-treated product with 10% H_2SO_4 + 20% adsorbent, followed by filtration, and addn. of 50 parts of white oil to 70 parts of the filtrate. A. A. B.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, A.D.

Data on the metabolism of nucleic acids and their nitrogen bases in the rabbit with an implanted progressive malignant tumor. A. M. Kuzin, S. Ya. Davydova, and A. D. Rodzaevskaya (Inst. Exptl. Pathol. and Cancer Therapy, Acad. Med. Sci. U.S.S.R., Moscow). *Biokhimiya* 19, 184-8 (1954).—In rabbits with a vigorously developing metastatic Brown-Pearce type of implanted malignancy a considerable shift is observed in the nucleic acid metabolism which is possessed of an interesting regularity in relation to the thymine content. It is perhaps significant that the shift in the nucleic acids of the tissues of animals naturally immune to the malignancy follows the same course as in susceptible animals. In rabbits developing a rapidly metastasizing Brown-Pearce sarcoma the shift in the types and ratios of the nucleic acids and their N bases is of the same character in the body tissues as it is in the malignancy proper. This is contrary to the picture developed in the case of localized carcinomas C-45 and M-1 in rats. B. S. Levine

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RODOVSKAYA, M.V.

UDC, the universal decimal classification system of books, articles, and periodicals. Elek. i tepl. tiaga 7 no.3:40 Mr '63. (MIRA 16:6)

1. Glavnyy bibliograf TSentral'noy nauchno-tekhnicheskoy biblioteki Ministerstva putey soobshcheniya.
(Classification, Decimal)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, V. Rodzaevskaya, V.

Comparison of thermostability and light stability of synthetic and natural ceresin? V. Rodzaevskaya and N. Bilik. *Novosti Neftyanoi Tekh., Neftepereraboika* 1955, No. 4, 34–40.—The acid no. of natural ceresin, which had been kept 300 hrs. in a thermostat at 110–20°, remained unchanged, but that of the synthetic product began to decrease after 50 hrs. of exposure. Washing of synthetic ceresin with H_2SO_4 caused a decrease in its stability. Exposure to light (30–00 days) caused bleaching of the synthetic material, whereas natural ceresin changed from yellow to light-orange.

A. P. Kotloby

Free 2

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RODZAYEVSKAYA, V.

RODZAYEVSKAYA, V.

2

1

Synthetic ceresin. V. Rodzaevskaya. *Novosti Neftyanoi Tekh., Neftepererabotka* 1955, No. 5, 14-21.—Synthetic ceresin was fractionated by selective solvent extn. Hydrocarbons with a very high m.p. (120°), with spherical microstructure which are not present in petroleum ceresins were isolated. Compared to the petroleum product, synthetic ceresin contains a markedly smaller ceresin fraction and a considerably larger paraffin fraction. Greases prepd. from the ceresin fraction had a granular structure and low consistency and were unstable at elevated temp. V. N. B.

gmb

mk

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

KOZZAYEVSKAYA, V.D.

PHASE I BOOK EXPLOITATION SOV/[illegible]

Leningrad. Neftemaslozavody, trest

Proizvodstvo smazochnykh materialov, vyp. 5 ([illegible]. Leningrad, Gostoptekhizdat, 1959. 70 p. ([illegible] opytom) Errata slip inserted. 1,700 copies printed.

Sponsoring Agencies: [illegible]. Gosudarstvennyy planovyy [illegible]. Kozglavneftesnabsbyt; Leningradskiy [illegible]

Ed.: I.Ye. Dobkin; Executive Ed.: O.N. [illegible]; Tech. Ed.: [illegible]

PURPOSE: This booklet is intended for industrial and [illegible] engineers interested in the synthesis and properties of lubricants.

COVERAGE: The collection contains 9 articles dealing with methods of [illegible] lubricants having special properties indicating additives which [illegible] such properties. The synthesis of raw materials for [illegible] additives is also discussed. No personalities are [illegible]. [illegible] and references accompany the articles.

Kozzayevskaya, V.D., and N.P. Bilik. Separating Ceresin From Petrolatum 27

Dobkin, I.Ye., P.G. Gushanskaya, and L.F. Sychova. Preparation of Low Molecular Synthetic Fatty Acids From C_5 to C_9 by the Oxidation of Soft Paraffins 34

Meshchaninov, S.M., and N.P. Zabelina. Changes in the Mechanical Properties of Commercial Consistent Lubricants During Their Blending 44

Rutin, G.Ya. A New Thermostable Metallurgical Lubricant [illegible]

Slobodin, Ya. M., S.S. Al'tman, and K.D. Tomnik. Production of Sulfurous Antiwear Additives Based on Ethylene Sulfide and Fatty Acids 58

Slobodin, Ya. M. Inclusion Compounds and Their Use in the Petroleum Industry 63

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8-25-60

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, V.D.; BILIK, N.P.

Utilizing the paraffin of high-sulfur crudes in wax compositions. Proizv. smaz. mat. no.3:12-15 '57. (MIRA 10:12)

1. Pervyy Moskovskiy neftemaslozavod.
(Waxes)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, V.D.; BILIK, N.P.

Separation of ceresin from petrolatum. Proizv.smaz.mat. no.5:27-33 '59. (MIRA 13:4)

1. Pervyy Moskovskiy neftemaslozavod.
(Ceresin) (Petrolatum)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014450

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

SOV/;9-58-6-110/685

AUTHORS: Migdal, Ye. Ya., Bilik, N. P., Myagkov, M.A., Rodzayevskaya, V.D., Filippovich, V. N., Shekhoyan, L. S., Olenin, M. S., Serdyukov, A. T., and Chistyakov, N. I.

TITLE: A Method and an apparatus for Regenerating Ceresin-Colophony Alloy from Used Paper Containers and Similar Objects used in the Textile Industry. (Sposob regenerirovaniya splava tserezina i kanifoli iz ispol'zovannykh bumazhnykh patronov i t. p. izdeliy, primenyayemykh v tekstil'nom proizvodstve, i ustanovka dlya osushchestveniya sposoba)

PERIODICAL: Byulleten'izobreteniy, 1958, Nr 6, p 28 (USSR)

ABSTRACT: Class 12r, 3_{01}. Nr 113333 (579725 of 2 July 1957)

Submitted to the Committee for Inventions and Discoveries at the Ministers Council of USSR. A method as specified in the title, consisting in repeated processing with an organic solvent; with the use of hot benzine in hermetically tight containers (of specified design).

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, V.D.; BILIK, N.P.

Rapid method for determining the resistance of wax compounds to heat and cold. Proizv. smaz. mat. no.4:29-35 '57. (MIRA 11:9)

1.Pervyy Moskovskiy neftemaslozavod.
(Ceresin)

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S/081/62/000/017/077/102
B156/B186

AUTHORS: Alashkevich, M. L., Rodzayevskaya, V. D.

TITLE: The BM-6 (VM-6) oil for mechanical vacuum pumps

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 477, abstract 17M206 (Novosti neft. i gaz. tekhn. Neftepererabotka i neftekhimiya, no. 12, 1961, 9 - 14)

TEXT: A fluid for mechanical pumps, named VM-6 oil, has been produced by vacuum distillation from the same raw material as is used for the BM-4 (VM-4) oil (ГОСТ 7903-56 (GOST 7903-56)), the appropriate distillate being separated. The VM-6 has high stability to oxidation (2 - 4 times that of the VM-4 oil) and also a more uniform fractional composition, while at low temperatures above zero its viscosity is only half that of the VM-4 oil. When the VM-6 oil is used in a BH-461M (VN-461M) pump, the deepest vacuum, according to the residual gases, is $1 - 5 \cdot 10^{-4}$ mm Hg. Any commercial product in the group of industrial oils produced from Caucasus and Eastern petroleums can be used making it. [Abstracter's note: Complete translation.]

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RODZAYEVSKAYA, V. D.

PA 4T22

USSR/Paraffin
Ceresin

Mar 1947

"The Structure of Paraffin and Ceresin," V D Rodzayevskaya, 2 pp

"Neftyanoye Khozyaystvo" Vol XXV, No 3

4T22

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RODZAYEVSKAYA, Yu.A.; FILIPPOVA, L.S., red.; USENKO, L.A., tekhn. red.

[Use of steel for the manufacture of contact plates for pantographs] Primenenie stali dlia izgotovleniia kontaktnykh plastin pantografov. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 14 p. (MIRA 14:12)

(Electric locomotives—Equipment and supplies)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, YU. A., CAND TECH SCI, "ANALYSIS OF THE RELATIONSHIP BETWEEN ~~OF~~ WEAR OF THE CONTACT LEAD OF ELECTRIFIED RAILROADS and ~~TO THE~~ CONDITIONS OF LUBRICATION AND magnitude of CURRENT ~~VOLTAGE~~ USED BY ~~THE~~ ELECTRICALLY-powered ~~PROPELLED~~ ROLLING STOCK. Study ~~INVESTIGATION~~ OF ~~THE~~ POSSIBILITY OF the use of ~~APPLYING~~ PANTOGRAPH STEEL CONTACT PLATES." MOSCOW, 1961. (~~MPS SSSR~~ [MINISTRY OF RAILWAYS USSR]. MOSCOW ORDER OF LABOR RED BANNER INST OF ENGINEERS OF RAILROAD TRANSPORT). (KL-DV, 11-61, 222).

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

RODZAYEVSKAYA, Yu.A., kand. tekhn. nauk

Experience in the operation of the new type of overhead contact wires. Vest. TSNII MPS 24 no.2:7-9 '65. (MIRA 18:5)

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RODZAYEVSKAYA, Yu.A., kand.tekhn.nauk

Analysis of some special features of the wear of the contact wire and pantograph plates. Trudy TSNII MPS no.233:29-39 '62. (MIRA 15:9)

(Electric railroads—Wires and wiring)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

BUSHE, N.A., kand.tekhn.nauk; PLENTSOV, G.I., kand.tekhn.nauk.; RODZAYEVSKAYA, Yu.A., kand.tekhn.nauk; PAVLOVA, R.G., inzh.

Increase in the wear resistance of the contact wire. Trudy TSNII MPS no.233:5-28 '62. (MIRA 15:9)
(Electric railroads—Wires and wiring)

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RODZAYEVSKAYA, Yu.A., inzh.

Use of graphitized steel in place of copper contact plates in a pantograph. Elek. i tepl. tiaga 4 no.5:8-10 My '60. (MIRA 13:7)

(Electric locomotives--Equipment and supplies)

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AL'KHANOV, A.S., inzh.; VISLOUKH, L.A., inzh.; VLASOV, I.I., kand.tekhn. nauk; KUPTSOV, Yu.Ye., inzh.; RODZAYEVSKAYA, Yu.A., inzh.; BELYAYEV, I.A., inzh., red.; KHITROV, P.A., tekhn.red.

[Prolonging the life of contact wires] Udlinenie sroka sluzhby kontaktnogo provoda. Pod obshchei red. I.A.Beliaeva. Moskva, Gos.transp.zhel-dor.izd-vo, 1958. 79 p. (MIRA 12:2)
(Electric railroads--Wires and wiring)

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RODZAYEVSKAYA, Yu.A., inzh.

Effect of lubricant exhaustion and current on the wear of the contact wire. Vest.TSNII MPS 19 no.6:18-21 '60. (MIRA 13:9)
(Electric railroads--Wires and wiring)

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SHUPIK, P.; LAVRIK, S.; SHUMADA, I.; LESHCHENKO, P.; MEDYANIK, R.; RADCHENKO, P.; PANCHENKO, V.; YESINENKO, L.; CHEBOTAREV, D.; BRATUS', V.; ISHCHENKO, I.; KOMISSARENKO, I.; KOLOMIYCHENKO, I.; MAKARCHENKO, A.; ARUTYUNOV, A.; SKRIPNICHENKO, D.; RODZAYEVSKIY, A.; PAVLENKO, K.; LEONENKO, K.; KOZYRENKO, N.; PARKHOMENKO, V.; CHEREN'KO, M.

Aleksandr Kirillovich Gorchakov; obituary. Vrach. delo no.8:144-145 Ag '60. (MIRA 13:9)

(GORCHAKOV, ALEKSANDR KIRILLOVICH, 1900-1960)

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OVOSHCHNIKOV, Maksimilian Semenovich, Laureat Gosudarstvennoy premii; RODZAYEVSKIY, A.P., red.

[New apparatus and methods of roentgenological examination] Novye apparaty i metody rentgenologicheskogo issledovaniia. Kiev, Gosmedizdat USSR, 1962. 329 p. (MIRA 18:6)

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