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21(8) [illegible]

Vsesoyuznoye [illegible] [illegible] i [illegible] [illegible] i [illegible]

Trudy... [illegible] All-[illegible] and [illegible] [illegible] Moscow, [illegible] AN [illegible], [illegible] 4,500 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniye po ispol'zovaniyu atomnoy energii, and Akademiya nauk SSSR.

Editorial Board of Set: V.I. Dikushin, Academicain (Resp. Ed.), N.N. Shumilovskiy (Deputy Resp. Ed.), Yu. S. Zaslavskiy (Deputy Resp. Ed.), L.K. Tatochenko, B.I. Verkhovskiy, S.T. Nazarov, L.I. Petrenko, and N.G. Zelevinskaya (Secretary).

Ed. of Publishing House: P.N. Belyanin; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVERAGE: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine- and instrument-manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, problems of friction and lubrication, metal cutting, engine performance, and defects in metals. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Auzan, Ya. A., V.E. Banashek, Kh.E. Gunne, I.M. Taksar, A.D. Tumulkan, P.F. Chaplinskiy, I.A. Eymanis, and V.A. Yanushkovskiy (Institut fiziki AN Latviyskoy SSR, zavody "BEF", "Kompressor" i "Dzinmars" — Institute of Physics, Academy of Sciences, Latvian SSR; "VEF", "Kompressor", and "Dzinmars" Plants). Automation and Control Equipment With Radioactive Relays 259

Segalin, V.G. (Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut — All-Union Scientific Coal Institute). Gamma Relay With Crystal Triodes 264

Klempner, K.S. Evaluation of the Minimum Necessary Charge of Counters in a Gamma Relay 266

Shumilovskiy, N.N., Yu.V. Gushchin, and M. I. Tolokonnikov (Institut avtomatiki i telemekhaniki AN SSSR — Institute of Automation and Telemechanics, Academy of Sciences, USSR). Use of Radioactive Isotopes for the Automatic Control of the Flow of Liquids 267

Kryzhanovskiy, V.V., I.I. Saf'yants, and V.A. Yanushkovskiy (Institut fiziki Akademii nauk Latviyskoy SSR i Leningradskiy staleprokatnyy zavod — Institute of Physics, Academy of Sciences, Latvian SSR; Leningrad Steel Rolling Mill). Use of Short-lived Isotopes in the Control of the Process of Steel Strip Manufacture 271

Shumilovksiy, N.N., and L.V. Mel'ttser (Institut avtomatiki i telemekhaniki AN SSSR — Institute of Automation and Telemechanics, Academy of Sciences, USSR). Use of Radioactive Radiations in the Noncontact Control of the Volume and Velocity of a Stream of Gas 276

Rebo, Ya. Yu., and D.N. Ziv. Use of Alpha Emitters for the Measurement of Gas Density 280

Iordan, G.G., K.S. Furman, and T.G. Neyman (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya — Scientific Research Institute for Heat-Power Instrument Making). Equipment for the Automatic Control of Gas Flow by Means of Beta Radiation 286

Polonik, P.A., L.V. Mel'ttser, and N.I. Panyukov (Tsentral'nyy nauchno-issledovatel'skiy institut shelkovoy promyshlennosti — Central Scientific Research Institute of the Silk Industry). Use of Radioactive Isotopes for the Dissipation of Electrostatic Charges in the Silk Industry 289

Tolokonnikov, M. I.

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~~21(8), 28(1)~~ 16.9500

AUTHORS: Shumilovskiy, N.N., Doctor of Technical Sciences, Gushchin, Yu.V., Engineer, and Tolokonnikov, M.I., Engineer

TITLE: The Application of Radioactive Radiation For the Automatic Control of a Liquid Flow in Closed Pipelines

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1959, Nr 1, pp 132-138 (USSR)

ABSTRACT: At the Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Remote Controls of the AS USSR) a flowmeter was developed which is based on the mechanical modulation of radioactive radiation. The principle of this device is explained in fig.1. A multi-blade impeller is placed into the liquid flow to be measured. Radioactive inserts are installed in one or several of its blades, but they cannot contact the liquid to be measured. Various gamma sources may be used: Co-60, $Sn^{113-123}$, Cs^{137}, Eu^{154}, etc. A lead screen is installed between the Geiger-Müller counter and the impeller, thus the intensity of the radiation varies from a minimum to an established maximum. A STS-1 halogen counter is

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The Application of Radioactive Radiation For the Automatic Control of a Liquid Flow in Closed Pipelines

used with an operating voltage of 400 volts, which converts the radiation pulses into electrical pulses. The electrical pulses are fed by cables to the input of an electronic measuring instrument, shown in circuit diagram, fig.2. This measuring instrument has two ranges: 0-5 and 3-30 cps. A photograph of the measuring device is shown in fig.3. An experimental model of this flowmeter was tested at VNII stekla (VNII for Glass), at the Moskovskiy institut inzhenerov gorodskogo stroitel'stva Mossoveta (Moscow Institute of City Construction Engineers of Mossovet) and at Kombinat Nr 513 Ministerstva tekstil'noy promyshlennosti (Combine Nr 513 of the Ministry of the Textile Industry). At VNIIstekla, tests were conducted with this device on a mazut flowmeter test stand. The results showed a maximum error of ±1%. The tests were conducted at flows ranging from 378 to 900 liters/hour. In the future, radioactive flowmeters may find a wide-spread application. There are 1 photograph, 1 circuit diagram, 1 diagram, 2 graphs and 3 Soviet references.

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The Application of Radioactive Radiation For the Automatic Control of a Liquid Flow in Closed Pipelines

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut (Moscow - Lenin Order - Institute of Power Engineering)

SUBMITTED: October 1, 1958

Card 3/3

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

GUSHCHIN, Yu.W. (Moskva); MEL'TTSER, L.V. (Moskva); TOLOKONNIKOV, M.I. (Moskva); SHUMILOVSKIY, N.N. (Moskva).

Utilization of radioactive radiation in automatic control devices [with summary in English]. Avtom. i telem. 18 no.9:814-840 S '57. (Automatic control) (Radioactivity)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

AUTHORS Gushchin, Yu.V., Melttser, L.V., Tolokonnikov, M.I., Shumilovskiy, N.N. (Moscow) 103-9-5/9

TITLE The Application of Radioactive Radiation in Automatic Control Devices.
(Primeneniye radioaktivnykh izlucheniy v ustroystvakh avtomaticheskogo kontrolya.-Russian)

PERIODICAL Avtomatika i Telemekhanika, 1957, Vol 18, Nr 9, pp 814-840 (U.S.S.R.)

ABSTRACT Material for a far-reaching utilization of nuclear radiation in automatic control devices in the USSR is dealt with. A survey is given and also an analysis of the typical methods of using these devices. First, the basic characteristics of α-β- and γ-radiation are investigated and described. Next, the most frequently used reception devices for the transformation of radioactive radiation energy into electric energy, such as the ionization chamber, the Geiger-Mueller counter, and scintillating counters are described. There follows a description of the automatic control of the thickness and the weight of working materials, medium density, etc., on which occasion several compensation systems are described and various control devices in the coal-, textile-, paper-, fur-, milk-, leather-, and other industries are enumerated. The methods of controlling and regulating gas- and liquid consumption, the devices for the automatic recording of the presence of admixtures in the gas, devices for the automatic control and regulation of gas pressure, relay systems with the application of contact-less radioactive relays, and the further development of

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The Application of Radioactive Radiation in Automatic 103-9-5/9
Control Devices.
the method of automatic control ane described.
There are 25 figures and 46 Slavic references.

SUBMITTED September 4,1956
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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOV, M.P.

Work of a progressive railroad district. Avtom., telem. i sviaz' 7 no.1:18-21 Ja '63. (MIRA 16:2)

1. Nachal'nik Andizhanskoy distantsii signalizatsii i svyazi Tashkentskoy dorogi.
(Railroads—Signaling) (Railroads—Electronic equipment)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

KAZARINOV, Yu.M.; TOLOKONNIKOV, S.V.; MEDYNTSEV, L.N.

Calculation of optimum parameters of a synchronous filter. Izv. vys.ucheb.zav.; radiotekh. 3 no.1:49-59 Ja-F '60. (MIRA 13:8)

1. Rekomendovana kafedroy radiopriborov Leningradskogo elektrotekhnicheskogo instituta im. V.I.Ul'yanova (Lenina).
(Electric filters)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

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S/142/60/000/01/005/022
E140/E463

9,3230

AUTHORS: Kazarinov, Yu.M., Tolokonnikov, S.V. and Medyntsev, L.N.

TITLE: Calculation of Optimal Parameters of a Synchronized Filter

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1960, Nr 1, pp 49-59 (USSR)

ABSTRACT: A synchronous filter 25 has a frequency characteristic approximating the complex-conjugate spectrum of the periodic signal at the input. The most widespread filter of this type is a delay line with positive feedback. Two possible methods of solving this problem exist: comparison of frequency spectra and selection of optimal transient characteristic of the filter for given input waveform. The latter is considered more convenient by the author. Four cases are considered; pulse sequence with rectangular envelope; pulse sequence with envelope of the type cos φ; pulse sequence with envelope in the form of $\cos^2 \varphi$; pulse sequence with triangular envelope. The method enables the following parameters to be calculated: gain in signal/noise ratio; waveform and amplitude of output signal envelope; magnitude of time delay of envelope maximum with respect to the filter

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Calculation of Optimal Parameters of a Synchronized Filter

input. From these the optimal filter parameters (feedback factor and filter attenuation) for maximum gain in signal/noise ratio may be determined. There are 7 figures and 4 references, 3 of which are Soviet and 1 English.

SUBMITTED: May 25, 1959

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VASIL'YEVA, Valentina Petrovna; GORSKIY, Aleksandr Ivanovich; KAZARINOV, Yuriy Mikhaylovich; KOLOMENSKIY, Yuriy Aleksandrovich; KRAYCHIK, Aron Borisovich; KUDRYAVTSEV, Dmitriy Vasil'yevich; MARMUZOV, Grigoriy Vasil'yevich; PESTOV, Yuriy Konstantinovich; TOLOKONNIKOV, Sergey Vasil'yevich; TOLSTYAKOV, Vladimir Sergeyevich; ZHEREBTSOV, I.P., red.; SOBOLEVA, Ye.M., tekhn. red.

[Design of radio pulse system components] Raschet elementov impul'snykh radiotekhnicheskikh ustroistv [By] V.P.Vasil'eva i dr. Pod red. IU.M.Kazarinova. Moskva, Gosenergoizdat, 1963. 429 p. (MIRA 16:7)
(Radio) (Pulse techniques (Electronics))

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TOLOKONNIKOV, V.

Windbreaks, Shelterbelts, Etc.

Story of those who changed nature. ("On the forest strip." Reviewed by V. Tolokonnikov). Les i step' 4 no. 2, 1952.

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

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MILLER, Viktor Yakovlevich, inzh.; KORCHAGIN, Vladimir Aleksandrovich, inzh.; TOLOKONNIKOV, Vladimir Gerasimovich, inzh.; MUKHANOV, K.K., kand. tekhn. nauk, retsenzent; KUZNETSOV, V.V., inzh., retsenzent; ZELYATROV, V.N., inzh., nauchn. red.

[Steel structures in a blast furnace - gas purification complex] Stal'nye konstruktsii kompleksa domennoi pechi i gazoochistki. Moskva, Stroiizdat, 1965. 278 p. (MIRA 18:4)

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TOLOKONNIKOV, V.V., FOMIN, V.M., GRAMM, M.N., VASYUTINSKAYA, A.B., KVANINA, L.I., MANZHIROVA, G.A., SVESHNIKOV, P.M.

"Akchagyl Deposits in the Lower Reaches of the Amu-Darya"
Dokl. Uz. SSR, 1953, No 12, 18-21, (Uzbekistan resume)

In 1952 in the lower reaches of the Amu-Darya during columnar drilling in a number of wells the drillers uncovered sandstone-clay deposits of the Akchagyl age with thicknesses up to several dozen meters. These deposits lie on an eroded surface of the Paleogene and are superimposed by ancient delta sedimentary deposits of the Anthropogene. The character of the ostracod fauna testifies to the strong fresh-water nature of Akchagyl gulf. (RZhGeol, No 3, 1954)

SO: W-31187, 8 Mar 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOV, Ye. V. and SOPIKOV, P. M.

"On marked changes of the character of the color of the feathers in the offspring of chickens that underwent a transfusion of the blood of another species of fowls,"

reported at Conference on Problem of Heredity and Variability, held at Institute of Genetics, AS USSR, 8-14 Oct 1957
Vestnik AN SSSR, 1958, Vol. 28, No. 1, pp. 127-129 (author Kushner, Kh. F.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

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TOLOKONNIKOVA, A. A.

"Burma (Physicogeographical Characteristics)." Cand Geog Sci, Inst of Geography, Acad Sci USSR, Moscow, Oct-Dec 1953. Dissertation (Vestnik Akademii Nauk Moscow, Feb 54)

SO: SUM 186, 19 Aug 1954

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

IVANOVA, L.; KOSTINSKIY, D.; RYABCHIKOV, A.; TOLOKONNIKOVA, A.; YASHINA, V.V., red.

[India, Pakistan, Ceylon, Nepal] Indiia, Pakistan, TSeilon, Nepal. Moskva, Glav.upr.geodezii i kartografii MVD SSSR. Gos. izd-vo geogr.lit-ry, 1956. 21 p. ___ Ukazatel' geograficheskikh nazvanii. 8 p. (MIRA 13:2)
(Asia--Geography, Economic)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

RYABCHIKOV, A.; KOSTINSKIY, D.; TOLOKONNIKOVA, A.; ISAMUKHAMEDOV, T.A., redaktor; RAKHMATULLIN, F., tekhnicheskiy redaktor

[India, Nepal, Ceylon] Khindistan, Nepal, TSeilon. Toshkent, Uzbekiston SSR davlat nashrieti, 1956. 35 p. [In Uzbek] (MLRA 10:1)
(India) (Nepal) (Ceylon)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

AUTHOR: Tolokonnikova, A. and Moiseyeva, A. 25-9-39/40

TITLE: Vegetative Hybridization of Animals (Vegetativnaya gibridizatsiya zhivotnykh)

PERIODICAL: Nauka i Zhizn', 1957, # 9, p 63 (USSR)

ABSTRACT: The article deals with the development of new fowl varieties by exchanging the albumens in eggs as recommended by S.I. Bogolyubskiy, coworker of the Pushkin Scientific Research Laboratory for the Breeding of Livestock. Similar experiments have already been made by numerous other scientists in the USSR and abroad. Hens that were hatched from eggs with partly exchanged albumen showed better growth, an increase in weight compared with the average, a change in constitution and a high egglaying capability.

ASSOCIATION: Institut genetiki Akademii nauk SSSR (Genetics Institute of the Academy of Sciences, USSR)

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

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TOLOKONNIKOVA, Anna Andreyevna; MURZAYEV, E.M., doktor geograf.nauk, otv. red.; ABRAMOV, L.S., red.; GOLITSYN, A.V., red.kart; VILENSKAYA, E.N., tekhn.red.

[Burma; physicogeographical features] Birma; fiziko-geograficheskaia kharakteristika. Moskva, Gos.izd-vo geogr.lit-ry, 1959. 156 p. (MIRA 12:12)

(Burma--Physical geography)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, T.

Soil and geographical research in Vologda Province. Volog. krai no.3:106-113 '62. (MIRA 16:12)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, T.K.

Landscape geography and Dokuchaev's soil evaluation research in Nizhegorod Province. Uch.zap. Kursk.gos.ped.inst. no.4:259-274 '57. (MIRA 12:4)

1. Iz kafedry geografii Kurskogo gosudarstvennogo pedagogicheskogo instituta.

(Gorkiy Province--Soils--Classification)
(Physical geography)
(Dokuchaev, Vasilii Vasil'evich, 1846-1903)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, T.K.

Soil cover in the southwestern part of the "40 Let Oktiabria" Collective Farm. Uch. zap. VGPI 27:71-78 '62. (MIRA 16:8)

(Vologda District--Soils)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, T.K.

Program and contents of a course in the physical geography of the U.S.S.R. in pedagogical institutes. Izv.Vses.geog.ob-va 88 no.4: 376-379 Jl-Ag '56. (MLRA 9:10)

(Physical geography--Study and teaching)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, Ye., nauchnyy sotrudnik; MOISEYEVA, A., nauchnyy sotrudnik.

Vegetative hybridization of animals. Nauka i zhizn' 24 no.9:63 S '57. (MLRA 10:9)

1. Institut genetiki Akademii nauk SSSR.
(Hybridization) (Poultry breeding)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, Ye.V.

Variation of the morphological egg indices and their relation to the nutritive and incubational quality of eggs. Trudy Inst. gen. no.31:309-318 '64. (MIRA 17:9)

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TOLOKONNIKOVA, Ye.V.

Effect of inheritance and various external factors on the quality of chicken eggs. Trudy Inst. gen. no.30:376-400 '63. (MIRA 17:1)

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KUSHNER, Kh.F.; TOLOKONNIKOVA, Ye.V.; MOISEYEVA, I.G.; BOGATYREVA, S.A.; ZNAMENSKAYA, M.P.

Introduction of heterologous desoxyribonucleic acid in hens. (MIRA 14:11)
Trudy Inst. gen. no.28:350-358 '61.
(DESOXYRIBONUCLEIC ACID) (POULTRY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, Ye.V.; MOISEYEVA, I.G.; BOGATYREVA, S.A.

Changes in the color of feathers in the progeny of hens resulting from the transfusion of different components of alien blood. Zhur. ob. biol. 22 no.1:66-73 Ja-F '61. (MIRA 14:1)

1. Institute of Genetics, U.S.S.R. Academy of Sciences.
(BLOOD—TRANSFUSION) (COLOR OF BIRDS)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

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KUSHNER, Kh.F.; TOLOKONNIKOVA, Ye.V.; MOISEYEVA, I.G.

Effect of the transfusion of different components of alien blood on the plumage type of the progeny in chickens. Trudy Inst. gen. no. 27:145-153 '60. (MIRA 13:12)
(Poultry) (Blood--Transfusion)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

BOGATYREVA, S.A.; ZNAMENSKAYA, M.P.; KUSHNER, Kh.F.; MOISEYEVA, I.G.; TOLOKONNIKOVA, Ye.V.

Introduction of foreign desoxyribonucleic acid into the organism of a hen. Dokl.AN SSSR 136 no.5:1213-1215 F '61. (MIRA 14:5)

1. Institut biokhimii im. A.N.Bakha AN SSSR i Institut genetiki AN SSSR. Predstavleno akad. N.M.Sisakyanom.
(Desoxyribonucleic acid) (Poultry)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONNIKOVA, Ye.V.; MOISEYEVA, I.G.

Effect of heterogenous blood transfusions on the progeny of hens. Trudy Inst. gen. no.24:372-384 '58. (MIRA 11:9)
(POULTRY BREEDING) (BLOOD--TRANSFUSION)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

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L 11258-63 EWP(r)/EWT(m)/BDS--AFFTC--EM/DE
ACCESSION NR: AP3000883 S/0179/63/000/002/0081/0086

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AUTHOR: Gromov, V. G., Tolokonnkov, L. A. (Tula)09

TITLE: Contribution to the calculation of approximations in the problem of finite planar deformations of incompressive material

SOURCE: AN SSSR. Izv. Otd. tekh. nauk. Mekhanika i mashinostroyeniye, no. 2, 1963, 81-86

TOPIC TAGS: nonlinear elasticity theory, nonlinear elasticity approximations, nonlinear deformations of incompressible material, stress concentration, solid-propellant rocket stresses

ABSTRACT: Theoretical paper extends the investigations previously undertaken by the second author (in Akad. nauk SSSR, Dokl., v. 119, no. 6, 1958; and PMM, v. 23, no. 1, 1959) relative to the problem of ultimate planar deformations of an incompressible material. The study established a relationship between the stress function and a complex function of the displacements, obtains a simplified formulation of the boundary conditions, adduces formulas for the calculation of

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ACCESSION NR: AP3000883

the first 3 approximations, and examines the problem of the stress concentrations occurring in the vicinity of a circular cylindrical cavity within an infinitely extended body. In particular, the paper examines the case in which the magnitude of the stress in one direction exceeds the magnitude of the stress at infinity in another direction. Here it is established that if, in addition to the classical solution, only the first approximation is taken into account, then, depending on the relationship between the stress at infinity, the new method may lead either to a reduction or to an increase of the stress concentration factor as compared with the classical solution. In this problem the effect of the deformation of the contour on the stress distribution in the vicinity of the cavity is substantial. The decrease in the stress-concentration factor, in comparison with that obtained with the classical solution in tension and its magnification in compression, is readily explained by the effect of the deformation of the contour. The curvature of the contour at the maximal-stress point is reduced by stretching and increased by compression. There are 42 numbered equations.

ASSOCIATION: none

SUBMITTED: 27Dec62 DATE ACQ: 12Jun63 ENCL: 00

SUB CODE: FL, GM, PR, AP NR REF SOV: 004 OTHER: 00

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKNO, A.F.

Our practices in using electric power. Mekh. sil'. hosp. 13 no.9:24-26 S '62. (MIRA 17:3)

1. Predsedatel' kolkhoza "Shlyakh do komunizmu" Borispol'skogo rayona, Kiyevskoy obl.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

SAMSONOVA, V.G., prof.; NOVITSKIY, R.I., dotsent; ADISMAN, M.A.' inzh.; BIRYUKOV, K.A., person.pensioner soyuznogo znacheniya; LAVRENT'YEV, S.S., kand.fiziko-matematicheskikh nauk; TOLOKONSKIY, N.I., dotsent

Immortalize the memory of S.O.Maizel. Svetotekhnika 7 no.6:28-29 Je '61. (MIRA 14:6)

(Maizel', Sergei Osipovich)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONTSEV, N.A. (Leningrad)

"Calculation of Mean Quadratic Deviation over the Range"

Report presented at the 3rd Conference on the use of Mathematics in Biology, Leningrad University, 23-28 Jan. 1961.
(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp 5-11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONTSEV, N.A. (Leningrad)

Some methods for the quantitative evaluation of the toxicity of chemical substances. Prim. mat. metod. v biol. no.3:135-154 '64. (MIRA 17:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONTSEV, N.A. (Leningrad)

"The Simplest Procedure of Plotting a Probit Analysis Graph Corresponding to Experimental Points with Allowance for Their Weight"

Report presented at the 3rd Conference on the use of Mathematics in Biology, Leningrad University, 23-28 Jan. 1961.
(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp. 5-11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONTSEV, N.A. (Leningrad)

Comparative study of a continuous and intermittent actions of volatile nonelectrolyte poisons; on the problem of norms for harmful substances in the air in an industrial environment. Gig. i san. 25 no.3:29-35 Mr '60. (MIRA 14:5)
(AIR—POLLUTION) (CHLOROFORM—TOXICOLOGY)
(ALCOHOL ETHYL—TOXICOLOGY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

AKENT'YEV, B.; ZUBETS, V.; KARABEKOV, V.; TOLOKONTSEVA, G.; YASTREBOV, N.

"Resources of the enterprise and the tasks of strengthening control through the ruble." Reviewed by B. Akent'ev and others. Fin. SSSR 17 no.9:88-91 S '56. (MLRA 9:10)

(Finance)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

DIONESOV, S.M., TOLOKOVA, N.A.

Peculiarities of the action of soporifics following nociceptive irritation in hypothyroid animals [with summary in English]. Biul.eksp. biol. i med. 46 no.7:52-56 Je '58 (MIRA 11:7)

1. Iz kafedry normal'noy fiziologii (zav. - prof. S.M. Dionesov) Blagoveshchenskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(URACIL, rel.cpds.
methylthiouracil, eff. on activity of amobarbital & chloral hydrate in animals after nociceptive irritation (Rus))
(AMOBARBITAL, effects,
after nociceptive irritation in methylthiouracil-receiving animals (Rus))
(CHLORAL HYDRATE, effects,
same (Rus))
(PAIN, experimental,
eff. of nociceptive irritation on activity of amobarbital & chloral hydrate in methylthiouracil-receiving animals (Rus))

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

USSR / Human and Animal Physiology. Blood.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41141.

Author : Tolokova, N. A.
Inst : Blagoveschensk State Medical Institute.
Title : The Effect of Blood Loss on the Development of Collaterals and the Blood Picture in Rabbits.

Orig Pub: Tr. Blagoveshchen. gos. med. in-ta, 1956, 2, 240-247.

Abstract: The effect of blood loss (15-40%) on the development of collaterals was studied in 110 rabbits whose bone marrow (BM) was previously affected by repeated blood transfusions. Bilateral dessection of the femoral arteries did not disturb the trophical condition of the tissues. Blood loss was brought to the point of development of post-hemorrhagic anemia and disturbances in the tissues of

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

USSR / Human and Animal Physiology. Blood. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41141.

Abstract: the operative area. A strong proliferation of erythroblasts with an intensive myelocytic and megakaryocytic reaction was noted in the sternal marrow smear. With blood restoration, the erythroblastic reaction of BM decreased and hemopoiesis returned to normal. Restoration of the erythrocyte count usually preceded the restoration of Hb content. Preliminary "training" with small blood letting stimulated hemopoiesis. On the eighth day following the operation and massive blood loss the reticulocyte count of the peripheral blood increased six-fold; it reached its maximum (31%) on the 12th day. An insignificant decrease was noted on the

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

USSR / Human and Animal Physiology. Blood. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41141.

Abstract: 28th day, but, even on the 35th day, the reticulocyte count was still 7.5% higher than the original value. Preliminary "training" of BM also stimulated the development of collaterals. Twice repeated blood transfusions (about 25% of the total blood volume of the rabbit each time) prevented excessive decrease of blood vessels following massive blood loss and favored the inclusion into the circulation of previously "passive" vascular branches and also stimulated hemopoiesis (increased proliferation of BM erythroblasts and peripheral reticulocytosis. -- A. D. Beloborodova.

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

VILLER, G.Ye.; TOLOKOVA, N.A.

Effect of mental and physical fatigue on the oxidation of blood in man. Dokl.AN Tadzh.SSR no.2:69-71 '52. (MIRA 9:9)

1.Kafedra biokhimii Stalinabadskogo meditsinskogo instituta. Predstavleno chlenom-korrespondentom AN Tadzhikskoy SSR N.F.Berezkimym.
(BLOOD--ANALYSIS AND CHEMISTRY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

ROMANOV, B. G., TOLOKUNSKIY, A. B., BARONOV, N. P.

Asphalt

Organized line for preventative servicing of automobiles. Gor. Khoz. Mosk. no 5. 1952

9. Monthly List of Russian Accessions, Library of Congress, July 1958. Unclassified.

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOKONTSEV, N.A.(Leningrad)

Dialectic interpretation of "the general" and "the specific" as applied to the problem of "general" and "local" in pathology. (MLRA 9:5)
Klin.med. 33 no.12:82-85 D '55.
(PATHOLOGY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

ROMANOV, R. G. TOLOKUNSKIY, A. B., BARANOV, N. P.

Automobiles- Repairing

Organized line for preventive servicing of automobiles, Gor. knoz. Mosk. no 5:23-27 May 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

L 22863-66 EWT(1)/EWA(h)

ACC NR: AP6011462 SOURCE CODE: UR/0109/66/011/004/0772/0773

39
38
B

AUTHOR: Shabanov, V. N.; Tolomasov, V. A.

ORG: none

TITLE: Nonlinear transmission line with distributed parameters based on a p-n junction

SOURCE: Radiotekhnika i elektronika, v. 11, no. 4, 1966, 772-773

TOPIC TAGS: pn junction, transmission line, delay circuit, pulse shaper, germanium semiconductor

ABSTRACT: A p-n junction transmission line is described. It is formed by depositing a 2—3 μ epitaxial layer of gallium-doped Ge on a Ge substrate and on top of this depositing an annular copper strip (see Fig. 1). After deposition, the top Ge surface is etched away to a depth of 3—4 μ. The resulting extended junction is usable as a transmission line whose capacitance varies as a function of applied voltage. Some test results cited are as follows: Bandpass, 0.5 Gc; Z_0 = 20 ohm; attenuation factor, 9 db/m. At 20-v bias, there was a leakage current of 4 mamp, and the total line capacitance at 4 kc was 600 pf. By segmenting the copper strip and measuring individual segment characteristics, the authors verified the uniformity of deposition; e.g., the variation in capacitance among segments was not over 1 pf. The design suggests use, for example, as a pulse shaper in the picosecond range, although

25

UDC: 621.382.28.002.2

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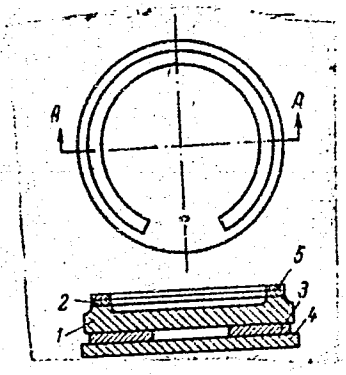

Fig. 1. Extended p-n junction

1 - Ge single-crystal base; 2 - Ge epitaxial layer: 3 - tin contacts; 4 - Kovar crystal holder; 5 - copper strip electrode (0.1 x 60 mm, 6 μ thick).

the leakage and bandpass characteristics would have to be improved. "In conclusion, the authors thank I. G. Katayev for formulating the problem and for measuring the characteristic impedance and bandpass of the extended p-n junction." Orig. art. has: 2 figures. [SH]

SUB CODE: 09/ SUBM DATE: 26Jun65/ ATD PRESS: 4230

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOMOSOV, V.A.

TOLOMASOV, V.A.

Use of the ponderomotive magnetometer in metallography.
Zav.lab. 22 no.10:1189-1194 '56. (MLRA 10:5)

1.Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut.
(Magnetometer)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOMASOV, V.A.

Change in the phase composition of 1Kh18N9T stainless steel under the effect of plastic deformation. Fiz.met. i metalloved. 6 no.5:838-842 '58. (MIRA 12:2)

1. Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut.
(Steel, Stainless--Metallography) (Deformations (Mechanics))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOMASOV, V.A.

GUDKOVA, N.V.; LEVINA, E.I.; TOLOMASOV, V.A.

Supplement to the article "Investigating carbide phases of tempered carbon steel." Fiz.met. i metalloved. 5 no.1:178-179 '57. (MIRA 11:2)

(Steel--Metallography)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

18(7) SOV/163-58-4-38/47

AUTHOR: Tolomasov, V. A.

TITLE: Notes on the Magnetic Method of Investigating Phase Conversions in Alloys (Zamechaniya k magnitnomu metodu issledovaniya fazovykh prevrashcheniy v splavakh)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 4, pp 220-224 (USSR)

ABSTRACT: The present investigation shows the following:
1) Magnetization of the ferromagnetic phase, which is contained as temperature function in a heterogeneous system, in a sufficiently strong field H follows the law $I(T)/I(0)=f(T/\theta)$ to the same extent as the magnetization of the corresponding phase in saturation. 2) The use of this function (it is uniform for the most important industrial alloys) for solving problems of metal science permits an accurate extrapolation of a single section of the I(T)-curve for the whole range where the ferromagnetism is present in the phase investigated (from θ^{o}K to θ^{o}). This again permits:
a) exact calculations of the per cent by volume in systems with some ferromagnetic phases;

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Notes on the Magnetic Method of Investigating Phase Conversions in Alloys SOV/163-58-4-38/47

b) a more accurate determination of the Curie points of the phases if the phases are present in unimportant quantity in the system and have nearly the same Curie point values;
c) a determination of the Curie point in those cases where immediate heating of the system investigated is impossible in the required temperature range.
3) The mutual influence of magnetic moments of single phases in fields with insufficient field intensity does not only reduce the accuracy in estimating the phase volumes, but may also lead to a distortion even of the qualitative valuation of the phase composition. - θ is the Curie temperature. There are 3 figures and 4 references, 1 of which is Soviet.

ASSOCIATION: Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut (Gor'kiy Physico-Technical Research Institute)

SUBMITTED: October 1, 1957

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOMASOV, V.A., Cand Phys-Math Sci --(diss) " Certain problems of a magnetic method of studying phase transformations in alloys." Gor'kiy, 1958. 6 pp (Gor'kiy Res Inst of Phys-Tech Inst (GIFTI) of Gor'kiy State Univ im N.I.Lobachevskiy), 100 copies (KL, 24-58,116)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

126-1-33/40

AUTHORS: Gudkova, N. V., Levina, E. I. and Tolomasov, V. A.

TITLE: Supplement to the paper "Investigation of the carbide phases of tempered low carbon steel". (Dopolneniye k stat'ye "Issledovaniye karbidnykh faz otpushchennoy uglerodistoy stali")

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.1, pp. 178-179 (USSR)

ABSTRACT: As a supplement to an earlier paper published in the same journal, 1957, Vol.IV, No.3, pp.500-504, a series of $I_s(T)$ curves and electron diffraction pictures are given of electrolytic precipitates for the steel Y12 tempered during one hour at various temperatures. There are 7 figures and 1 Slavic reference.

(Note: This is a full translation except for the figure captions).

SUBMITTED: January 21, 1957.

AVAILABLE: Library of Congress.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

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crucible. The iodine was placed in a glass tube ending in a capillary. During outgassing this tube was placed in a Dewar with liquid nitrogen. The temperature of the n- and p-type Ge substrates was

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOMASOV, V.A.; APAYEV, B.A.

Investigating measurement diagrams of a ballistic magnetometer and anisometer. Zav.lab. 23 no.7:821-826 '57. (MLRA 10:8)

1.Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut.
(Magnetometer) (Anisotropy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

Tolomasov, V.A.

32-7-19/49

AUTHORS: Tolomasov, V.A., Apayev, B.A.

TITLE: Discussion of the Measuring Scheme of the Ballistic Magnetometer and Anisometer
(Issledovaniye izmeritel'nykh skhem ballisticheskogo magnitometra i anizometra)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 7, pp. 821 - 825 (USSR)

ABSTRACT: This paper discusses the effective ratio between the recordings obtained from the apparatus and the actual degree of magnetization for the ballistic magnetometer and anisometer. By means of computation possible errors are discussed on the basis of certain conditions and corresponding corrections are described. The paper consists of two parts: 1.) Ballistic magnetometer. The principle of the construction of the latter is based upon measuring of the magnetic current in the coil, which is generated during the removal of the sample located between the two magnetic poles (through a corresponding channel); this is also accompanied by a nonuniform magnetization of the sample during this process. (Examples are given). In paragraph 2.) Magnetometer with dipole measuring scheme (anisometer) the construction of the apparatus mentioned is des-

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32-7-19/49

Discussion of the Measuring Scheme of the Ballistic Magnetometer and Anisometer

cribed, is based upon the determination of the degree of magnetization corresponding to a mechanical moment of the magnetic dipole of the sample in a homogeneous magnetic field. Examples of how the apparatus is used and computations carried out for the purpose of checking results are given. There are 6 figures and 13 formulae.

ASSOCIATION: Gor'kiy Physical-Technical Research Institute (Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut)

AVAILABLE: Library of Congress

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

126-3-16/34

AUTHORS: Gudkova, N. V., Levina, E.I. and Tolomasov, V.A.

TITLE: Investigation of the carbide phases of tempered carbon steel. (Issledovaniye karbidnykh faz otpushchennoy uglerodistoy stali).

PERIODICAL: "Fizika Metallov i Metallovedeniye" (Physics of Metals and Metallurgy), 1957, Vol.4, No.3, pp. 500-504 (U.S.S.R.)

ABSTRACT: Existing views on the nature and composition of carbide phases which evolve during tempering of carbon steel are contradictory. In this paper the carbide phases were investigated of tempered carbon steel, containing 1.15% carbon, by means of electron diffraction, chemical and magnetic methods. After hardening from 1100 C the specimens were tempered for one hour at 150, 200, 250, 300, 350, 400, 500 and 650 C. Flat specimens were used. The objects of the electron diffraction and chemical investigations were the carbide precipitates produced by anodic dissolution in accordance with the method described by Popova, N.M. (2). The results are entered in tables and some of these are compared with the results of Jack, K.H. (9 and 11), Hofer et alii (10), Hagg (12) and Arbuzov, M.P. and Kurdyumov, G.V. (8). It was found that in the tempered carbon steel Y12 the following two intermediate carbide phases exist: low

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

126-3-16/34

Investigation of the carbide phases of tempered carbon steel. (Cont.)

temperature hexagonal phase with a Curie point of 380 C and lattice periods of a = 6.27, c = 21.4 Å; high temperature rhombic phase with a Curie point of 270 C and lattice periods a = 3.82, b = 4.72 and c = 12.5 Å and cementite. The chemical composition of the intermediate carbide phases differ from the cementite phase. With increasing degree of dispersion the carbide phases can be classified into the following series: cementite, rhombic, hexagonal. Crystals of the hexagonal and rhombic phases have a lamellar shape. Acknowledgments are made to B. A. Apayev, Z. G. Pinsker and S. V. Kaverin for their advice and assistance.

Card 2/2

There are 3 tables and 12 references, 8 of which are Slavic.

SUBMITTED: January 9, 1957.

ASSOCIATION: Gorky Physico-Technical Research Institute. (Gor'kovskiy Issledovatel'skiy Fiziko-Tekhnicheskiy Institut).

AVAILABLE: Library of Congress

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

GUSEV, S.A., kand. sel'skokhoz. nauk; TOLOPILOV, V.P., agronom

Potato storage. Zashch. rast. ot vred. i bol. 7 no.9: 35-37 S '62. (MIRA 16:8)

1. Institut kartofel'nogo khozyaystva, s. Korenevo, Moskovskoy obl.

(Potatoes—Storage)

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Synthesis of the hydroperoxide of 1,1-diphenylethane and thermal decomposition of tertiary hydroperoxides. T. I. Yurzhenko, D. K. Tolopko, and V. N. Puchin (Lvov Polytech. Inst.). *Doklady Akad. Nauk S.S.S.R.* 74, 85-6(1950).—Oxidation of Ph_2CHMe at 65–70° in a stream of O_2 flowing at 6–8 ml./min. gave a high percentage (24% conversion in 300 hrs.) of a hydroperoxide which crystallizes partly at room temp., more completely (65–70% of the total formed) on ice. The product, analyzing for Ph_2CHO_2Me, m. 82°, has the structure *$Ph_2CMe.O.OH$*. The kinetics of the decompn. in soln. in methylstyrene were detd. for 4 hydroperoxides, including the above new product. The decompn. is of the 1st order, with the following values of the rate const., $k \times 10^6$ at 70°, 85°, 100°, (and the activation energy E): $Me_2C.O.OH$, 0.289, 0.869, 2.390 sec.$^{-1}$ (17.9 kcal./mole); $PhMe_2C.O.OH$, 0.411, 1.344, 3.962 (19.2); $Ph_2MeC.O.OH$, 1.455, 4.896, 15.407 (20.0); $Ph_3C.O.OH$, —, 2.592, 7.284 sec.$^{-1}$ (18.3 kcal./mole). The frequency factors are, resp., 7.4×10^6, 7.1×10^6, 8.1×10^6, and 3.7×10^6 sec.$^{-1}$.

N. Thon

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOPKO, D. K.

1343. Sintez i kharakteristika nekotorykh tretichnykh gidroperekisey Kiev, 1954. 18s. s. graf. 20sm. (M-vo Vysch. obrazovaniya SSSR. Kiyevskiy gos. un-t im. T G. Shevchenko.) 100 ekz B. ts. — [54-54137]

SO: Knizhnaya Letopis, Vol. 1, 1955

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

USSR

Synthesis of 1,1-diphenylpropane hydroperoxide. D. K. Tolonko and T. I. Yurzhenko (Polytech. Inst. Lvov). *Dokl. Akad. Nauk S.S.S.R.* 94, 707-8(1954). EtPh$_2$COH was reduced with Zn dust in 40% HI-AcOH to EtPh$_2$CH, b_{12} 140-1°. When this was percolated 400 hrs. with O at 82.5° (the course of the reaction is shown graphically) and chilled, the hydroperoxide, $C_{15}H_{16}O_2$, crystd. out; the product m. 80° (from petr. ether). Reduction with KI-AcOH gave 100% EtPh$_2$COH, m. 95°. On this basis the product is assigned the structure *EtPh$_2$COOH*. The rate of formation of the hydroperoxide under the above conditions is highest for Me$_2$PhCH, lowest for EtPh$_2$CH and intermediate for MePh$_2$CH.

G. M. Kosolapoff

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOPKO, D.K.; PROKOPETS, M.M.

Self-oxidation of triisopropylbenzene. Dokl. IPI 5 no. 1/2: 34-36 '63. (MIRA 17:6)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOPKO, D. K.

"The Synthesis and Characteristics of Certain Tertiary Hydroperoxides." Cand Chem Sci, Kiev State U imeni T. g. Shevchenko, 3 Jan 55. (PU, 23 Dec 54)

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

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

Tolopko, D. K.

Cumene autoxidation kinetics, and the characteristic effects of phenol additions. D. K. Tolopko (Polytech. Inst., Lvov). *Doklady Akad. Nauk S.S.S.R.* 104, 101-3 (1955). The phenol inhibiting effect on the oxidation of cumene to its peroxide was studied by bubbling 12-15 ml. O through 30 g. purified cumene at 105 ± 0.1°, and titrating iodometrically the peroxide formed. PhOH was added to cumene before the bubbling of O, and after the oxidation of about 5, 20, and 30% of cumene, and the results are shown graphically. The inhibiting effect is much the strongest when phenol is added first. Tests with PhOMe prove that the OH hydrogen in PhOH is the active inhibitor. W. M. Sternberg

Chem

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOPKO, D.K.; MOKRIVSKIY, T.M. [Mokrivs'kyi, T.M.]; YURZHENKO, T.I.; PYRIG, Ya.M. [Pyrih, IA.M.]

Using the continuous method for the production of acryl chloride. Khim.prom. [Ukr.] no.2:14-16 Ap-Je '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

SULIMA, I.M. [Sulyma, I.M.]; TOLOPKO, D.K.

Obtaining acrolein by means of catalytic oxidation of allyl alcohol. Khim.prom. [Ukr.] no.2:16-18 Apr-Je '65. (MIRA 18:6)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLORAYA, D.F., kand.tekhn.nauk

Mechanization of the casting of reinforced concrete products.
Mekh. stroi. 19 no.4:6-8 Ap '62. (MIRA 15:9)
(Precast concrete)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

SOROKER, V.I., doktor tekhn.nauk prof.; TOLORAYA, D.F., kand. tekhn.nauk, USHAKOVA, I.N., inzh.

Using vibration methods in mixing fine grained concretes. Bet. i zhel.-bet. no.2:70-75 F '60. (MIRA 13:6)
(Vibrated concrete) (Mixing machinery)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLORAYA, D.F.

Selecting tower cranes for city construction and determining their productivity [in Georgian with summary in Russian]. Trudy Inst. stroi. dela AN Gruz. SSR 6:191-201 '57. (MIRA 11:8)
(Tiflis--Cranes, derricks, etc.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

RAYEVSKIY, V.S.; KUZNETS, Ye.I.; ANTIPOV, V.V.; TOLOVA, S.V.; UL'YANINSKIY, L.S.

Aleksandr Ivanovich Smirnov; on his 70th birthday. Fiziol. zhur. 44 no.3:266-267 Mr '58. (MIRA 11:4)
(SMIRNOV ALEKSANDR IVANOVICH, 1887-)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

SMIRNOV, A.I.; TOLOVA, S.V.; UL'YANINSKIY, L.S.

Functional condition of the heart and the effect of the extracardiac nervous system in experimental myocardial infarction. Biul. eksp. biol. i med. 46 no.12:33-38 D '58. (MIRA 12:1)

1. Fiziologicheskaya gruppa pri AMN SSSR (Nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR, prof. A.I. Smirnov), Moskva.
(MYOCARDIAL INFARCTION, exper.
eff. of funct. cardiac cond. & extracardiae nerves in dogs (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

RAYEVSKIY, V.S.; ANTIPOV, V.V.; KUZNETS, Ye.I.; TOLOVA, S.V.; UL'YANINSKIY, L.S.; SHAPOVALOVA, V.Ya.

Mechanism of the cessation of inhibition of the respiratory center during stimulation of the central portion of the vagus nerve. Fiziol. zhur. 46 no.10:1203-1209 O '60. (MIRA 13:11)

1. Fiziologicheskaya gruppa chlena-korrespondenta AMN SSSR A.I.Smirnova, Moskva.
(VAGUS NERVE) (RESPIRATION)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

SMIRNOV, A.I.; TOLOVA, S.V.; KOVALEVA, T.N.

Dynamics of cardiac activity and of the P wave in the electrocardiogram during the excitation of the vagus nerve after disruption of inhibition. Biul. eksp. biol. i med. 52 no.11: 7-13 N '61. (MIRA 15:3)

1. Iz fiziologicheskoy gruppy AMN SSSR (nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.I. Smirnov), Moskva.
(ELECTROCARDIOGRAPHY) (VAGUS NERVE)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

RAYEVSKIY, V. S.; KUZNETS, Ye. I.; ANTIPOV, V. V.; TOLOVA, S. V.

Bioelectric currents of the cerebral cortex during various functional states of the respiratory center. Fiziol. zhur. 45 no. 10:1192-1200 O '59.

1. Akademiya meditsinskikh nauk SSSR, fiziologicheskaya gruppa, Moskva.

(RESPIRATION physiol.)
(ELECTROENCEPHALOGRAPHY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

GURVICH, A.M.; TOLOVA, S.V.

Some changes in the structure of the respiratory act during the agonal process. Pat. fiziol. i eksp. terap. 8 no.1:24-29 Ja-F '64. (MIRA 18:2)

1. Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma (zav.- prof. V.A. Negovskiy) AMN SSSR, Moskva.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLOVA, S.V.

Structure of the respiratory act in the process of extinction and restoration of vital functions in the body. Biul.eksp.biol. i med. 59 no.5:35-40 '65. (MIRA 18:11)

1. Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A.Negovskiy) AMN SSSR, Moskva. Submitted July 20, 1964.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLPAROV, K.D. (Ordzhonikidze)

Surgical complications of dysentery. Klin.med. 36 no.11:125-127 N '58 (MIRA 11:12)

1. Iz Respublikanskoy klinicheskoy bol'nitsy Severo-Osetinskoy ASSR (glavnyy vrach - zasluzhenyy vrach Severo-Osetinskoy ASSR. S.S. Khanayev, nauchnyy rukovoditel' - dots. I.B. Otarayev).

(DYSENTERY, compl.
peritonitis, (Rus))
(PERITONITIS, etiol. & pathogen.
perf. of dysentery ulcer (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLPAROV, K.D.

Clinical aspects and treatment of brucellar orchitis and epididymitis. Urologiia 23 no.6:31-33 N-D '58. (MIRA 11:12)

1. Iz urologicheskogo otdeleniya (nauchnyy rukovoditel' - dotsent I.B. Otaryev) Respublikanskoy klinicheskoy bol'nitsy Severo-Osetinskoy ASSR.
(BRUCELLOSIS, compl.
epididymitis & orchitis, clin. picture & ther. (Rus))
(ORCHITIS, etiol. & pathogen.
brucellosis, clin. picture & ther. (Rus))
(EPIDIDYMITIS, etiol. & pathogen.
same)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

GARANINA, I.P., TOLPEGINA, T.B.

Some extravegal mechanism of the depression of cardiac function. [with summary in English]. Biul.eksp.biol. i med. 45 no.2:30-33 F '58. (MIRA 11:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - dotsent M.A. Yerzin) Kazanskogo meditsinskogo instituta (dir. - dotsent R.A. Vyaselev). Predstavlena deystvitel'nym chlenom AMN SSSR prof. V.V. Parinym.

(HEART, physiology,
depression of extra-vagal sympathetic origin in exper. typhoid intoxication (Rus))
(SYMPATHETIC NERVOUS SYSTEM, physiology,
cardiac depression of extra-vagal sympathetic origin in exper. typhoid intoxication (Rus))
(TYPHOID FEVER, experimental,
same))

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

(A) L 11235-66 EWT(m)/EWP(j)/T/EWA(c)/ETC(m) WW/RM

ACC NR: AP6002214 SOURCE CODE: UR/0080/65/038/012/2728/2734

AUTHOR: Koton, M. M.; Yakovlev, B. I.; Rudakov, A. P. Knyazeva, T. S.; Florinskiy, F. S.; Bessonov, M. I.; Kulova, M. M.; Tolparova, G. A.; Layus, L. A.

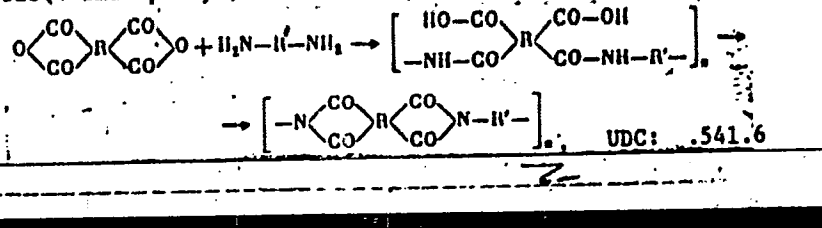
ORG: Institute of Macromolecular Compounds, AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Preparation and physicomechanical properties of polypyromellitimide

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 12, 1965, 2728-2734

TOPIC TAGS: heat resistant plastic, fire resistant material, dielectric material, polyimide, polypyromellitimide/

ABSTRACT: A study has been made of the preparation and physical and mechanical properties of a polyimide, viz., polypyromellitimide. Test results showed that the polymer may find widespread use as a heat resistant and low temperature resistant material, and is of special interest as a high temperature film dielectric. A polypyromellitimide film similar to the U.S. H-film was prepared from pyromellitic anhydride and bis(4-aminophenyl) ether:



UDC: 541.6

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L 11235-66

ACC NR: AP6002214

Polycondensation to the polyamido acid intermediate was carried out at 15C. Polypyromellitimide films were prepared by drying solutions of the polyamido acid on glass substrates at 20—40C followed by heat treatment at 80—400C to produce imidization. Optimum preparative conditions were determined. The films were transparent, gold-brown in color, thermally stable, nonburning at up to 600—700C, unaffected by organic solvents, highly resistant to γ- and UV radiation, low temperature resistant, nonshrinking, resistant to humidity, and readily metalized. In its mechanical properties at high temperatures, the material surpasses all existing polymers. These properties can be further improved by orientation stretching, after which they approach those of glass-reinforced plastics and metals. Orig. art. has: 5 figures and 3 tables. [SM]

SUB CODE: 11/ SUBM DATE: 08Mar65/ ORIG REF: 008/ OTH REF: 011/

ATD PRESS: 4173

Card 2/2

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLPEGINA, T.B., dotsent (Kazan')

Problems of clinical allergology at the Quedlinburg conference. Kaz. med. zhur. no.3:118-119 My-Je'63. (MIRA 16:9)
(ALLERGY—CONGRESSES)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

RAKHMATULLIN, I.M.; TOLPEGINA, T.B.

Mechanism of allergic manifestations following use of medicinal substances. Kaz.med.zhur. 40 no.5:89-94 S-O '59. (MIRA 13:7)

1. Iz kafedry patologicheskoy fiziologii (zav. - doktor med. nauk M.A. Yerzin) Kazanskogo meditsinskogo instituta.
(ALLERGY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLPEKIN, Stefan Zakharovich; STEBUNOV, N.S., red.; PONOMAREVA, A.A., tekhn. red.

[Over-all mechanization of agriculture; economic effectiveness] Kompleksnaia mekhanizatsiia sel'skogo khoziaistva; ekonomicheskaia effektivnost'. Moskva, Ekonomizdat, 1962. 139 p. (MIRA 16:3)

(Farm mechanization)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

CHERNENKO, S.A.; TOLPYGIN, P.P., starshiy nauchnyy sotrudnik

Use of Siberian larch in the furniture industry as facing material. Trudy VSNIPILesdrev no.9:3-10 '64.

(MIRA 18:11)

1. Nachal'nik laboratorii derevoobrabotki Vostochnosibirskogo issledovatel'skogo i proyektnogo instituta lesnoy i derevoobrabatyvayushchey promyshlennosti (for Chernenko).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

TOLPYGINA, G.P.; KRYUCHKOVA, P.I.

Increasing the throughput of textile equipment in the production of capron. Khim.volok. no.5:55-56 '62. (MIRA 15:11)

1. Klinskiy kombinat iskusstvennogo i sinteticheskogo volokna.

(Nylon)
(Textile machinery)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

KOPTYAYEVA, V.A.; KHARITONOVA, G.N.; TOLPYGINA, G.P.

Experience with the KV-150-I4 high-speed twisting and spinning machine. Khim.volok. no.5:60-62 '62. (MIRA 15:11)

1. Klinskiy kombinat iskusstvennogo i sinteticheskogo volokna.

(Textile machinery)
(Nylon)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756110020-8

S/185/63/008/001/007/024
D234/D308

AUTHORS: Murmylo, G. L. and Tolpyho, K. B.

TITLE: Wave function and energy of a zone electron in NaCl. III: Use of orthogonalized functions

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 1, 1963, 42-52

TEXT: The theory of K. B. Tolpyho (Ukr. fiz. zh., v. 2, 242, 1957) is applied to an NaCl crystal, the problem being formulated and solved as a multielectron problem. The calculations are improved by direct determination of two-center exchange integrals in the matrix elements. Numerical computation leads to an effective mass about 50% larger than previously found by Tolpyho and O. F. Tomasevych (Ukr. fiz. zh., v. 3, 145, 1958; FTT, 2, 3110, 1960) and to a smaller width of the conduction band. There are 2 tables and 1 figure.

Card 1/2

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