Country : USSR
Category : Microbiology. Antibiosis and Symbiosis. Antibiotics.

Abs. Jour : Ref Zhur-Biol., No 23, 1958, No 103702

Author : Pikovskaya, R. I., Frangulyan I. S., Rtskhiladze S. I.
Institut. :--
Title : Antibacterial Properties of Humus.

Orig. Pub. : Zh. mikrobiol., epidemiol. i immunobiologii, 1956, No 2, 28-31

Abstract : Fifty one series of crude fluids were obtained from aqueous extracts of terra rossa which exerted an antibacterial effect in vitro on bacteria of the colon-typhoid group. The fluids are thermostable and withstand sterilization at 120° and a pH of 3.9-4.5. The antibacterial substances found in the extracts come from humus. Fractionation of the fulvic acid fraction of humus made it possible to isolate the active part, which is distinguished from the original crude substance by a number of properties, particularly, by the capacity of maintaining its activity in protein media. The acid and principally organic nature of the antibacterial substances

Card: 1/2

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USSR / Microbiology. Human and Animal Pathogens. F
Bacteria of Intestinal Group.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5573.

Author : Pikovskaya, R. I.; Rtskhiladze, S. I.
Inst : Not given.
Title : On the Phage Sensitivity and Phage Diagnosis of Dysentery and Dysenteri-form Cultures.

Orig Pub: Zh. mikrobiol. epidemiol. i immunobiol., 1958, No 3, 125.

Abstract: The sensitivity to polyvalent and type dysentery phages and agglutinability of 1216 cultures of various origin was investigated. In cultures isolated from water there were more agglutinable than lysable ones; among cultures isolated from feces, the phage sensitive were encountered more frequently than the agglutina-

Card 1/2

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USSR / Microbiology. Human and Animal Pathogens. F
Bacteria of Intestinal Group.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5573.

Abstract: ble ones. Phage lysability is more important, in the authors' opinion, than agglutinability in determining their type characteristics. The authors recommend the method phage diagnosis for identification of atypical cultures.

Card 2/2

PIKOVSKIY, Aleksandr Aleksandrovich; TUMARKIN, D.M., red.; YERMAKOVA, Ye.A., tekhn.red.

[Statics of structural frames with compressed elements] Statika sterzhnevykh sistem so szhatymi elementami. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1961. 394 p. (MIRA 14:4)

(Structural frames)

POPOV, V., polkovnik meditsinskoy sluzhby; PIKOVSKIY, A., gvardii podpolkovnik meditsinskoy sluzhby

Overcoming optical illusions. Vest. Vozd. Fl. no.11:70-72 N '61. (MIRA 15:2)

(Optical illusions) (Airplanes--Piloting)

PIKOVSKIY, A.A., DERKACHEV, A.A.

Dynamic theory of stability. Trudy Inst. seism. stroi. i seism. 11:4-33 '62. (MIRA 16:5)
(Stability)

PIKOVSKIY, A.A., professor; POPOV, N.I., assistent.

Method of deformations. Trudy RIIZHT no.19:150-172 '55.(MLRA 9:7)
(Deformations (Mechanics))

PIKOVSKIY, A.A., doktor tekhnicheskikh nauk, professor.

Theoretical principles of arches. Trudy RIIZHT no.18:5-130 '54.
(MLRA 9:3)

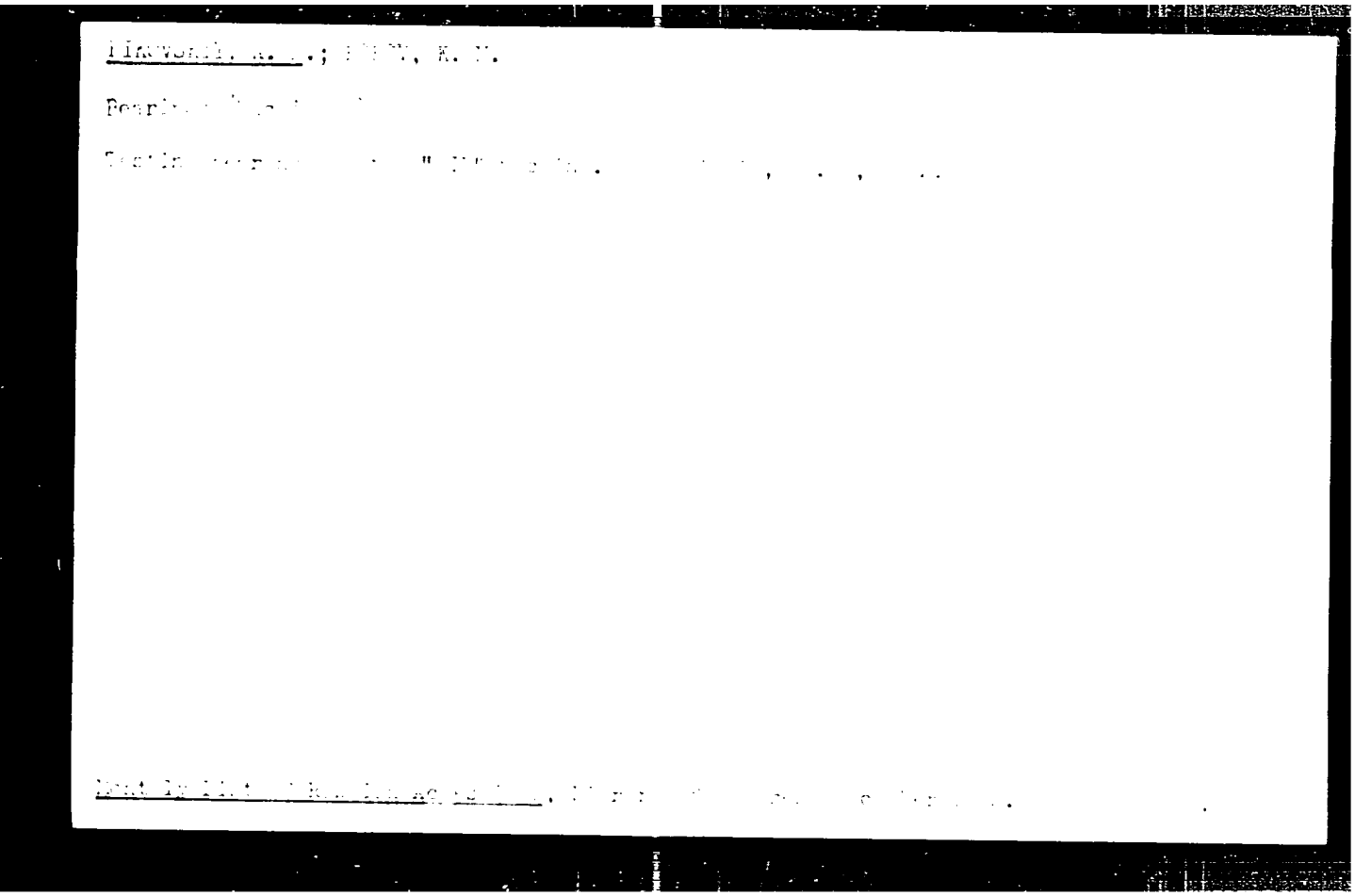
(Bridges, Arched)

PIKOVSKIY, A.A.

Remarks on N.V.Kornoukhov's book "Stability and strength of rod systems". A.A.Pikovskii. Inzh.sbor. 18:174-181 '54. (MLRA 7:5)
(Strength of materials) (Elastic rods and wires) (Kornoukhov, N.V.)

ZALUNIN, K.P.; PIKOVSKIY, A.A., prof., doktor tekhn.nauk, nauchnyy rukovoditel', red.; SADETOV, S.Ya., dots., kand.tekhn.nauk, otv. red.

[Deformation analysis of composite rods and compressed rods with variable cross sections] Deformatsionnyi raschet szhatykh sterzhnei peremennogo secheniia i sostavnykh sterzhnei. Rostov-na-Donu, 1958. 49 p. (Rostov-on-Don. Inzhenerno-stroitel'nyi institut. Nauchnoe soobshchenie, no.2). (MIRA 13:9)
(Elastic rods and wires)



1. PIKOVSKIY, A.M., Eng. ; POPOV, K. M., Eng.

2. USSR (600)

4. Ball Bearings

7. Durability of ball bearings having grinding scratches, caused by tempering. Podshipnik no. 8, 1952

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

PIKOVSKIY, A.M.

Increasing the stability of ball-bearing cages. Avt.i trakt.proz. no.9:17-18 S '57. (MIRA 10:11)

1. Kuybyshevskiy gosudarstvennyy podshipnikovyy zavod.
(Ball bearings)

PIKOVSKII, A.M.; gvardii podpolkovnik meditsinskoy sluzhby

Awareness of the pilot in landing under difficult weather conditions. Vest.Vozd.Fl. no.1:42-46 Ja '61. (MIRA 13:12)
(Airplanes—Landing)

ACCESSION NR: AT4042709

S/0000/63/000/000/0408/0411

AUTHOR: Popov, V. A.; Pikovskiy, A. M.; Kiselev, Yu. V.; Kry°lov, Yu. V.

TITLE: Dual perception indicators for man-operated systems

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy° konferentsii. Moscow, 1963, 408-411

TOPIC TAGS: visual indicator, dual perception indicator, semiautomatic control, human operator, auditory indicator, perception threshold, frequency differentiation

ABSTRACT: One of the chief problems in integrating the human operator into the control of semiautomatic systems lies in the area of more efficient transmission of information to the human operator. Most modern systems have only visual indicators. At the same time, it seems desirable to reinforce the visual indicator with an auditory one. The design of such indicator systems requires the knowledge of thresholds of sound differentiation based on frequency. It was found that simultaneous use of visual and auditory indicators increases perception by 6--11%

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ACCESSION NR: AT4042709

in comparison with the use of only one indicator. With some subjects, perception was increased by as much as 35--55%. In designing auditory signals for systems with two indicators, it should be kept in mind that the threshold of sound differentiation based on frequency must differ by at least 0.02 cps from the frequency being tested. In semiautomatic control systems, the parameter which must be most closely controlled by the human operator should have both visual and auditory indicators.

ASSOCIATION: none

SUBMITTED: 27Sep63 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 000

Card 2/2

USSR/General Problems of Pathology - Comparative Oncology. U-3
Tumors of Man.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75630

Author : Rikovskiy, D.L., Smetankin, N.I.
Inst : -
Title : Carotid Gland Tumor with Metastases into Regional Lymph Nodes.

Orig Pub : Vestn. khirurgii, 1956, 77, No 12, 111-113

Abstract : Report on a case of malignant neoplasm of the carotid body with metastases into a regional lymph node. The tumor was surgically removed. The necessity is stressed of surgical intervention in the presence of any enlarging tumor of carotid body. To avoid thrombosis of collaterals, anticoagulants are recommended several days prior to and after surgery.

Card 1/1

PIKOVSKIY, D.L., kandidat meditsinskikh nauk; SMETANKIN, N.I., dotsent

Tumor of the carotid body with metastases to a regional lymph node. Vest.khir. 77 no.12:111-113 D '56. (MLRA 10:2)

1. Iz khirurgicheskogo otdeleniya (zav. - D.L.Pikovskiy) Basseynovoy bol'nitsy Verkhnevolzhskogo vodzdravotdela. Adres avtorov: Gor'kiy, ul. Semashko, d.39, kv. 2.

(PARAGANGLIOMA, case reports
metastases to regional lymph node)

PIKOVSKIY, D.L. (Gor'kiy, ul. Semashko, d.39, kv.2)

Combined resection in recurrent gastric cancer. Vop.onk. 2 no.5: 605-606 '56. (MIRA 10:2)

1. Iz kliniki gospital'noy khirurgii Gor'kovskogo meditsinskogo instituta (dir. - prof. B.A.Korolev) na baze khirurgicheskogo otdeleniya (zav. - kandidat meditsinskikh nauk D.L.Pikovskiy) bol'nitsy Vodzdravotdela.
(STOMACH NEOPLASMS, surg.
technic in recurrent cancer)

PIKOVSKIY, D.L.

Polycystoma of the peritoneum. Khirurgiia Supplement:16 '57.
(MIRA 11:4)

1. Iz gospital'noy khirurgicheskoy kliniki Gor'kovskogo meditsinskogo instituta.
(PERITONEUM--TUMORS) (CYSTS)

PIKOVSKIY, D.L., dotsent, (Gor'kiy, ul. Semashko, d.39, kv.2)

Papillosphincterotomy and transpapillary drainage in bile duct surgery. Vestn. khir. Grekov. 90 no.4:22-27 Ap'63 (MIRA 17:2)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. B.A. Korolev) Gor'kovskogo meditsinskogo instituta.

KOROLEV, B.A., zasluzhennyy deyatel' nauki, prof., PIKOVSKIY, D.L., dotsent (Gor'kiy)

Review of the book "Surgery of esophagus, stomach, liver and intestines". Vest. khir. 91 no.9:128-129 S '63. (MIRA 17:1)

KOROLEV, B. A., prof.; PIKOVSKIY, D. L., kand. med. nauk

Some problems in the surgical treatment of acute cholecystitis. Khirurgiia 37 no.7:15-21 Jl '61. (MIRA 15:4)

1. Iz kafedry gospital'noy khirurgii Gor'kovskogo meditsinskogo instituta.

(GALL BLADDER—SURGERY)

PIKOVSKIY, D.L.

Gas cholecyctitis. Khirurgiia no.3:80-81 Mr '54. (MLRA 7:5)

1. Iz khirurgicheskogo otdeleniya (zav. D.L.Pikovskiy) Troitskoy Mezhrayonnoy bol'nitsy Cheliabinskoy oblasti (glavnyy vrach M.G. Klebanova).

(CHOLECYSTITIS,
*gas cholecystitis)

PIKOVSKIY, G., kand.tekhn.nauk

Latest equipment for light industry. NTO no.9:33-35 S '59.
(MIRA 13:1)
(Technological innovations)

28 (1) 06296

AUTHORS: Pikovskiy, E. A., Engineer, SOV/119-59-11-10/13
Epshteyn, A. L., Engineer

TITLE: An Exposition Showing the Achievements of the National Economy of the USSR in 1959. New Means for the Automation of Industrial Processes

PERIODICAL: Priborostroyeniye, 1959, Nr 11, pp 23-28 (USSR)

ABSTRACT: In this exposition the Samostoyatel'noye konstruktorsko-tekhnologicheskoye byuro biofizapparatury (SKTBBFA) Mosgorsovnarkhoza (Independent Technical Design Office for Biophysical Apparatus of the Mosgorsovnarkhoz) shows the electronic machine of the MARS-200 type for automatic temperature control and -regulation. The NIISchetmash Gosudarstvennogo Komiteta Soveta Ministrov SSSR po radioelektronike (Scientific Research Institute for Computers of the State Committee of the Council of Ministers of the USSR for Radioelectronics) shows an electronic recorder for central controls. A large number of new instruments are offered by the Spetsial'noye konstruktorskoye byuro po avtomatike v neftepererabotke i proizvodstve iskusstvennogo zhidkogo topliva (Special Design Office for Automatic Devices in

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An Exposition Showing the Achievements of the National Economy of the USSR in 1959. New Means for the Automation of Industrial Processes SOV/119-59-11-10/13

Petroleum Processing and for the Production of Synthetic Liquid Fuels). Five apparatus are discussed. A number of new instruments are shown by the KB Tsvetmetavtomatika (Design Office Tsvetmetavtomatika). Seven instruments are discussed. The Proyektno-konstruktorskoye byuro Ministerstva stroitel'stva RSFSR (Planning and Design Office of the Ministry for Construction of the RSFSR) offers a number of new instruments. Three instruments are discussed. The Khar'kovskiy zavod KIP (Khar'kov Plant KIP) also shows a number of instruments, five of which are discussed. The same plant also manufactures a differential gauge. The Tsentral'nyy nauchno-issledovatel'skiy institut kompleksnoy avtomatizatsii (Central Scientific Research Institute for Comprehensive Automation) also shows instruments. The Tsentral'naya laboratoriya avtomatika Ministerstva stroitel'stva RSFSR (Central Laboratory for Automatic Devices of the Ministry for Construction of the RSFSR) shows instruments for electrochemical analysis. A number of transmitters were developed by the NIITeplopribor

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An Exposition Showing the Achievements of the National Economy of the USSR in 1959. New Means for the Automation of Industrial Processes

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(Scientific Research Institute Teplopribor). The "Komega" Plant shows electronic-pneumatic control systems. The NIIKhimash (Scientific Research Institute for Chemical Engineering) shows two electronic units. The Khar'kovskiy zavod "Teploavtomat" (Khar'kov Works "Teploavtomat") also offers instruments, two of which are discussed. Several instruments of the Moskovskiy zavod "Manometr" (Moscow "Manometr" Factory) and the Tallinskiy zavod kontrol'no-izmeritel'nykh priborov (Tallin Factory of Control- and Measuring Instruments) are discussed. In the Kirgizskiy sovnarkhoz (Kirgiz sovnarkhoz) several electronic signaling devices were developed. The L'vovskiy zavod priborov (L'vov Factory of Instruments) offers several instruments manufactured in series. Furthermore, the instruments exhibited in the "Elektronika" pavilion are discussed, and instruments and regulating devices exhibited in the "Khlopok" pavilion and produced by the zavod "Ivmashpribor" ("Ivmashpribor" Works) are dealt with. In the pavilion of the petroleum industry telemechanic systems are on show. There are 22 figures.

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KOSYGIN, A.; NOVIKOV, V.; MURAV'YEVA, N.; ZOTOV, V.; AKIMOV, I.; SPORYSHEV, V.; KOLOSOVA, V.; CHESNOKOV, N.; NEFEDOVA, O.; BOGAYEVA, A.; PIKOVSKIY, G.; KARMANOV, M.; SIYTAM, Ye.; KHODAKOVA, S.; KUSHNER, P.; BLYAKHMAN, I.; BASSIAS, L.; KINESHEMTSEVA, A.; REZNIKOV, M.; KALININ, S.; MILANOVA, D.; VENGEROVA, R.; AGROSKINA, M.; RATNER, B.; NARODETSKIY, B.; MARKOVA, L.; GOLUBENKOVA, N.; TSEKHANSKAYA, S.; TERENT'YEVA, N.; NESTEROVA, S.; AKSENOV, S.

D.M.Khazan-Andreeva; obituary. Tekst.prom. 21 no.12:90 D '61.
(MIRA 15:2)
(Khazan-Andreeva, Dora Moiseevna, 1894-1961)

PIKOVSKIY, G.

Concerning the book "Nonwoven textile materials" by Ir. Radko Krems and others. Tekst. prom. 23 no.9:93 S '63. (MIRA 17:10)

(Czechoslovakia--Nonwoven fabrics)
(Kr[illegible], [illegible]ko Dr.)

3468 PIKOVSKIY, G AND MANDRUSOV, Z.

Na blago sovetskogo cheloveka. Legkaya Promyshlennost' SSSR. Na krutom pod"eme. M., Mosk: Raboniy 1954 60S 20 sm. 15,000 ekz. 75 k (54-57393) 338.4: 7(47)

[illegible], V.I.

Boots and Shoes - [illegible] Manufacture

Important factor in the technological development of the light industry Leg. prom. No. 3, 1952

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

PIKOVSKIY, G. I.

Textile Industry and Fabrics.

Introduce the a tainments of science n technology i t productio ore bodly. Tekst. prom. 12 No. 6 1952.

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

PIKOVSKIY, G.I.

Spinning Machinery

"Ring spinning frames for wet spinning of linen." Tekst. prom. 12 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 ????, Uncl.

PIKOVSKIY, G.I.

Textile Industry

Use of ultrasonic energy in the textile industry. Tekst.prom., 12, no. 8, 1952.

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

PIKOVSKIY, Y. I.

Supersonic Waves

Use of ultrasonic energy in the textile industry. Tekst. prom. 12 no. , 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958, Unc.

PIKOVSKIY, G.I., kandidat tekhnicheskikh nauk.

[New textile-industry technology in the fifth five-year plan] Novaia tekhnika tekstil'nogo proizvodstva v piatoi piatiletke. Moskva, Izd-vo "Znanie", 1953. 23 p. (MLRA 6:11)
(Textile industry)

LEBEDEV, Nikolay Nikolayevich; PIKOVSKIY, G.I., retsenzent; BEKETOVA, Ye.M., redaktor; NEKRASOVA, O.P., tekhnicheskiy redaktor.

[Production of twisted goods; basic theories of twist] Krutil'noe proizvodstvo; osnovy teorii svivki. Moskva, Gos.nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 94 p. (MLRA 8:5)
(Rope) (Spinning)

PIKOVSKIY, Genrikh Iosifovich; MANDRUSOV, Zinoviy Naumovich; NOVIKOV, A., redaktor; IGNAT'YEVA, A., tekhnicheskiy redaktor.

[For the welfare of the Soviet man. U.S.S.R. industry is on the upgrade] Na blago sovetskogo cheloveka. Legkaia promyshlennost' SSSR na krutom pod"eme. Moskva, Izd-vo "Moskovskii rabochii," 1954. 60 p. (MLRA 8:5)
(Russia--Industries)

PIKOVSKIY, Genrikh Iosifovich; SAL'MAN, Semen Il'ich; GINZBURG, Lev Natanovich; GAL'BURT, Mark Yakovlevich; LIOZNOV, A.G., redaktor; SMOLYAKOVA, M.V., tekhnicheskiy redaktor

[Circular looms for wet weaving of flax] Kol'tsevye mashiny dlia mokrogo priadeniia l'na. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 155 p. (MIRA 8:4)
(Looms) (Flax)

PIKOVSKIY, G.I.; GAL'BURT, M.Ya.; SAL'MAN, S.I.

Changing from the wet method of spinning flax to the dry one.
Tekst.prom. 14 no.5:13-15 My '54. (MLRA 7:6)
(Flax)

PIKOVSKIY, G.I., kandidat tekhnicheskikh nauk.

Techniques of the future in the textile industry. Tekst.prom. 16 no.6:7-13 Je '56. (MLRA 9:8)
(Textile industry)

PIKOVSKI, G.

The comb[illegible] technique [illegible] the [illegible]i e industry. (To be [illegible]n:c.) p. 1.5.

(INDUSTRIA TEXTILA. VOL. 8, No. 4, Apr. 1957, Bucuresti, Rumania)

SO: Month y List of East Eur pean Accessions (EIAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

PIKOVSKIY, G.I., kand.tekhn.nauk

Development of the mechanization of production in light industry. (MIRA 10:11)
Mekh.trud.rab. 11 no.8:11-16 Ag '57.
(Industry)

PIKOVSKIY, G.I.

See to it that the newly introduced machinery proves effective.
Tekst.prom.17 no.1:1-3 Ja '57. (MLRA 10:2)

1. Nachal'nik otdela novoy tekhniki legkoy promyshlennosti Gostekhniki SSSR.
(Textile machinery)

PIKOVSKIY, G.I., kand.tekhn.nauk.

From new to still newer techniques. Leg.prom. 17 no.11:13-14 N '57. (MIRA 10:12)
(Russia--Manufactures)

FIKOVSKIY, Genrikh Iosifovich, kand.tekhn.nauk; ISLANKINA, T.F., red.; TROFIMOV, A.V., tekhn.red.

[New techniques in the textile industry] Novaia tekhnika v tekstil'noi promyshlennosti. Moskva, Izd-vo "Znanie," 1958. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 4, no.10) (MIRA 11:5)
(Textile industry)

Pikovskiy, G.I.

5(3) SOV/63-4-3-19/31

AUTHORS: Mogilevskiy, Ye.M., Candidate of Technical Sciences, Finger, G.G

TITLE: Scientific-Technical Conferences and a Seminar on the Production and Processing of Chemical Fibers

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 3, pp 398-401 (USSR)

ABSTRACT: In November-December 1958 the All-Union Scientific-Technical Conference on Problems of the Application of Chemical Fibers in the Textile, knit goods and Haberdashery Industry took place with the participation of the VKhO imeni Mendeleyeva (All-Union Chemical Society imeni Mendeleyev) It was attended by 250 representatives of plants and scientific research institutes and scientists from China, Hungary, Poland and Czechoslovakia The deputy of the president of the GNTK of the USSR N.A. Petrov pointed out that rational processing methods are necessary A.N. Volkov (Upravleniye khimicheskikh volokon Goskomiteta Soveta Ministrov SSSR po khimii - Board of Chemical Fibers of the State Committee on Chemistry in the USSR Council of Ministers) presented a paper on the state and development of the production of chemical fibers in the USSR; Professor Z.A. Rogovin (Moskovskiy tekstil'nyy institut - Moscow Textile Institute)

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on technical methods of developing the production of chemical fibers; Professor A.B. Pakshver (VNIIV) on modern methods of studying the properties of chemical fibers; Candidate of Technical Sciences G.I. Pikovskiy (GNTK USSR) on: "The Production of Woven Materials From Artificial and Synthetic Fibers"; Professor V.Ye. Gusev (Moskovskiy tekstil'nyy institut - Moscow Textile Institute) on the basic principles of mixing natural fibers, especially wool, with chemical ones; N.Ya. Alekhin (GNTK USSR) on preparing staple yarn from fine viscose fiber; Professor V.A. Usenko (Moscow Textile Institute) on the effect of twisting staple yarn on its physical-chemical properties; A.I. Golod (Moninskiy kamvol'nyy kombinat - Moninsk Worsted Yarn Combine) on the experience of processing staple fibers in his plant; N.A. Orlov (VNIILtekmash), P.I. Aristov (IVNITI), Doctor of Technical Sciences A.N. Vanchikov (TsNIIKhBI) on the problems of designing and introducing new types of technological equipment. The Conference noted the backwardness in the development of efficient spinning, weaving and finishing equipment, the insufficient coordination of work and the lack of necessary laboratory equipment. On December [illegible] 1958, the All-Union Conference of Workers of the Industry of Chemical Fibers took place

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PIKOVSKIY, G.I.

Utilization on a large scale of the new, highly effective technology of textile manufacture. Tekst.prom. no.2:70-72 F '63. (MIRA 16:4)

1. Glavnyy spetsialist po tekhstil'noy promyshlennosti Gosudarstvennogo komiteta Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel'skikh rabot.

(Nonwoven fabrics)

PIKOVSKIY, G.I., kand.tekhn.nauk

New method of manufacturing nonwoven textile fabrics in Czechoslavakia. Tekst.prom. 22 no.12:47-48 D '62.
(MIRA 16:1)

1. Glavnyy spetsialist otdela legkoy i pishchevoy promyshlennosti Gosudarstvennogo komiteta Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel'skikh rabot (GNTK).
(Czechoslavakia—Nonwoven fabrics)

PIKOVSKIY, S.A., inzh.

Prospects for using uncontrolled retardation in the automation of skip hoisting. Izv. vys. ucheb. zav.; gor. zhur. 6 no.9: 166-171 '63. (MIRA 17:1)

1. Gosudarstvennyy proyektno-konstruktorskiy institut avtomatizatsii rabot v ugol'noy promyshlennosti.

PIKOVSKIY, S.A.

Automatic control of hoists used in shallow mines. Biul. tekh.-ekon. inform. no.4:6-7 '58. (MIRA 11:6)
(Hoisting machinery) (Automatic control)

GINZBURG, V.B., inzh.; PIKOVSKIY, S.A., inzh.

Protection, interlocking, and signaling used in automatically controlled hoisting units in Moscow Basin mines. Bezop. truda v prom. 2 no.11:20-22 N '58. (MIRA 11:11)

1. Institut Giprougleavtomatizatsiya.
(Moscow Basin--Mine hoisting--Safety appliances)

LOBOV, N.A., inzh.; PIKOVSKIY, S.A. , inzh.; GINZBURG, V.B., inzh.

Automatizing skip-hoisting equipment at the No.11 "Lipkovskaya" Mine. Ugol' 34 no.3:42-47 Mr '59. (MIRA 12:5)
(Moscow Basin--Mine hoisting)
(Automatic control)

GINZBURG, V.B., inzh.; PIKOVSKIY, S.A.

Improving automatic hoisting systems having dumping cages. Bezop. truda v prom. 3 no.7:19-21 Jl '59. (MIRA 12:11)

1. Giprougleavtomatizatsiya.
(Mine hoisting--Safety appliances)

PIKOVSKIY, S.A.; GINZBURG, V.B.

Automatic hoisting unit with self-dumping cages. Biul.tekh.-ekon.inform. no.5:7-8 '59. (MIRA 12:8)
(Coal mining machinery)

[illegible]KOVSKIY, S. A. 1 Apr [illegible]

USSR/Physics - Interferometry

"Investigation of Oscillations That Are Very Small in Comparison [illegible] the Length of Light Waves by Means of Harmonic Analysis of [illegible] Interference Pictures," [illegible], [illegible], [illegible], S. A. [illegible]skiy, Phys-Tech Inst, [illegible] State

"Dok Ak Nauk SSSR" Vol [illegible], No 4, pp [illegible]-55[illegible]

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AUTHOR: Pik-Pichak, G. A. 56-2-12/51

TITLE: The Fission of Rotating Nuclei (Deleniye vrashchayushchikhsya yader)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol 34, Nr 2, pp 341-345 (USSR)

ABSTRACT: This work contains a term for the fission barrier of a rotating nucleus and gives an estimation of the cross section of the fission in case of a reaction of N^{14}-ions at heavy nuclei. The energy of rotation $E_{rot} = M^2/2I$ has at $M = 50$ to $120\hbar$ the same order as the fission barrier (E_{rot} 5 to 20 MeV) and therefore in the computation of the fission barrier the rotation of the nucleus has to be considered. The total modification of the energy on occasion of deformation of a rotating nucleus is equal to $\Delta E = \Delta E_s + \Delta E_q + \Delta E_{rot}$, whereby ΔE_s, ΔE_q, and ΔE_{rot} denote the modification of the surface energy, of the Coulomb energy, and of the rotation energy. The rotation energy changes at a deformation of the nucleus at a constant moment. The stable shape of the rotating nucleus is, of course, an axial-symmetrical flattened ellipsoid, the symmetry axis of which has the direction of the moment. Various deformations will either facilitate or impede the fission. The deformations

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which correspond with an oblong ellipsoid, having its axis vertical to the moment will facilitate the fission and the deformation which correspond to an ellipsoid, having its axis of symmetry directed parallel to the momentum will impede the fission. The transition from the stable form of the flattened ellipsoid to the ellipsoid takes place by means of axially non-symmetrical deformations. For the change of the total energy of a rotating nucleus the extremum condition gives 4 solutions. The physical meaning of the separate solutions is shortly given. Then the cross section of the fission is ascertained. In a diagram the experimental curves of the cross section of fission are plotted as a function of the energy of the incident ions in the laboratory coordinates system and compared with a theoretically computed curve. The agreement in qualitative respect is good. There are 2 figures and 10 references, 7 of which are Slavic.

SUBMITTED: August 2, 1957

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Card 2/2 1 Nuclei-Motion-Fission 2. Nuclei-Deformation [illegible]-Theory

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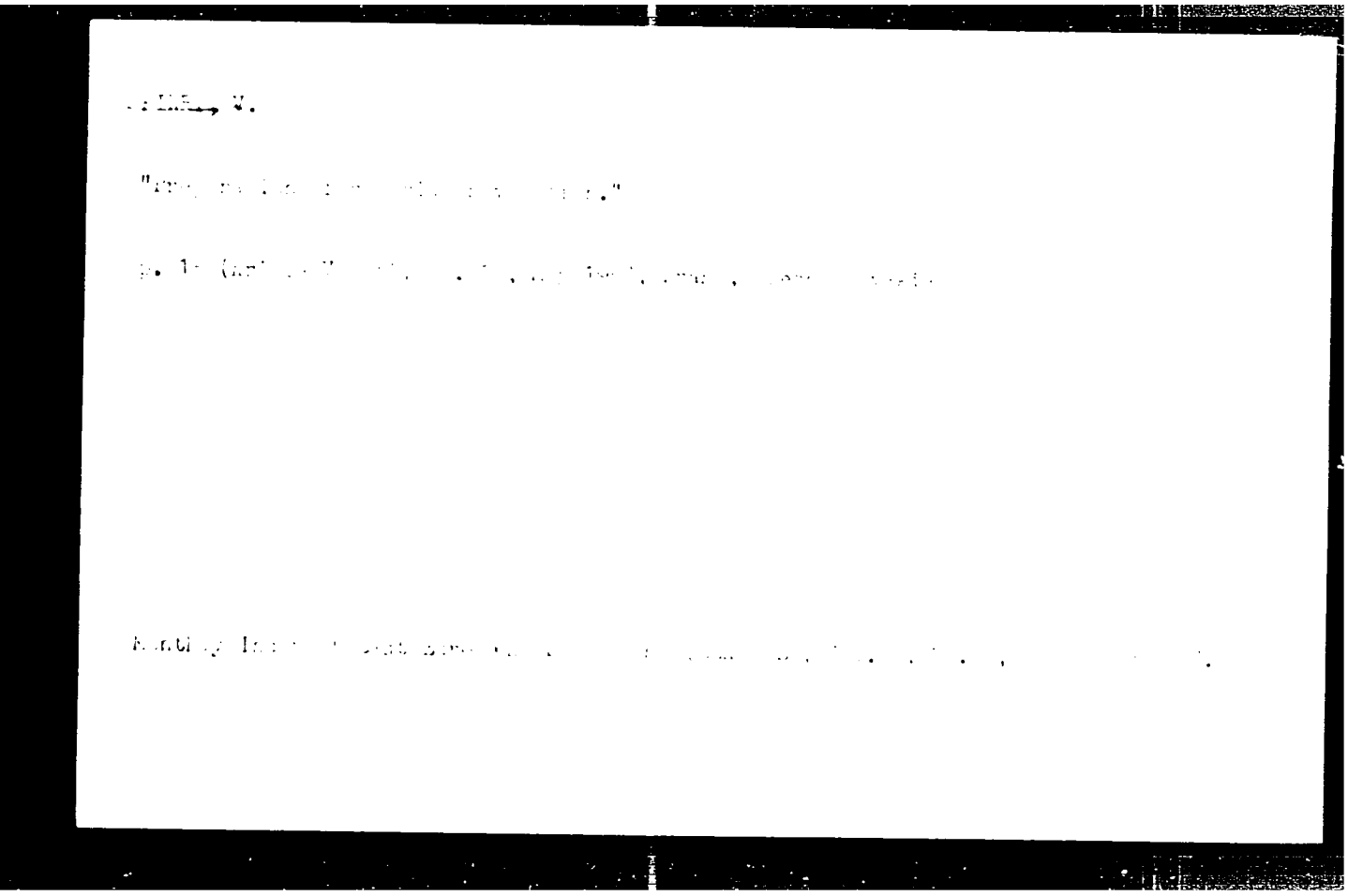

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