SOV/16-59-6-36/46

17(1,6)

AUTHOR: Tokar', S.Kh.

TITLE: The Epidemiology and Prophylaxis of Botkin's Disease. Author's Summary.

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Vol 30 Nr 6, pp 128-129 (USSR)

ABSTRACT: This is an account of the background to the epidemic outbreaks of Botkin's disease in a large center of population in Northern Kirgiziya, where the disease has been recorded since 1950. The incidence of this disease has increased in recent years, although the incidence of other infectious enteric diseases has declined markedly. In 1956 wide use began to be made of cortical (morbillous?) serum and gamma-globulin for immunizing contact children and pregnant women in the foci of Botkin's disease. In 1957 it was noted that the incidence among the immunized persons had decreased by 40% over 1956.

Card 1/2

SOV/16-59-6-36/46

The Epidemiology and Prophylaxis of Botkin's Disease. Author's Summary.

ASSOCIATION: Frunzenskaya infektsionnaya bol'nitsa (Frunze Infectious Diseases Hospital) and the Gorodskaya sanitarno-epidemiologicheskaya stantsiya (City Sanitary-epidemiological Station)

SUBMITTED: April 28, 1958

Card 2/2

TOKAR', S.Kh.

Dysentery and influenza; author's abstract. Zhur.mikrobiol.epid. i immun. 30 no.9:129-130 S '59. (MIRA 12:12)

1. Iz Frunzenskoy gorodskoy infektsionnoy bol'nitsy i gorodskoy sanitarno-epidemiologicheskoy stantsii.
(DYSENTERY BACILLARY compl.)
(INFLUENZA compl.)

TARANTAYEV, T.M.; TOKAR', S.Kh.; KUVSHINNIKOV, S.M.; ZUBOVA, Ye.Kh.; MINEYEVA, R.G.; ONISHCHENKO, G.P.

Seroprophylaxis of Botkin's disease. Zhur.mikrobiol.,epid.i immun. 30 no.11:11-15 N '59. (MIRA 13:3)

1. Iz Kirgizskogo instituta epidemiologii, mikrobiologii i gigiyeny i kafedry organizatsii zdravookhraneniya Kirgizskogo meditsinskogo instituta.

(HEPATITIS, INFECTIOUS prev. & control)
(GAMMA GLOBULIN ther.)

TOKAR', Sh., kand.med.nauk; SOSKINA, S., nauchnyy sotrudnik

Forgotten subject. Okhr.truda i sots.strakh. 3 no.2:36-37 F '60. (MIRA 13:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut sanitarnogo prosveshcheniya (for Soskina).
(Industrial hygiene--Study and teaching)

ACC NR: AR6035036 SOURCE CODE: UR/0058/66/000/008/B007/B007

AUTHOR: Nevidoms'ka, L. A.; Tokar, S. S.; Yukhnovs'kyy, I. R.

TITLE: Chemical potential of a system of charged particles and the potential's parametric curves accurate precision to the second virial coefficient

SOURCE: Ref. zh. Fizika, Abs. 8B70

REF SOURCE: Visnyk L'vivs'k. un-tu. Ser. fiz, no. 2, 1965, 19-26

TOPIC TAGS: ~~charged particle system,~~ charged particle, particle physics, chemical potential, ELECTROLYSIS, SOLUTION CONCENTRATION

ABSTRACT: The chemical potential is calculated for a neutral system of charged particles. Graphs for the relationship between the coefficient of electrolysis activity and the solution concentration are numerically plotted. [Translation of abstract] [NT]

SUB CODE: 20/

Card 1/1

ACC NR: AR6035039 SOURCE CODE: UR/0058/66/000/008/B025/B026

AUTHOR: Lomsadze, Yu. M.; Tokar', S. S.

TITLE: The structure of the g-plane of a partial theoretical-field amplitude

SOURCE: Ref. zh. Fizika, Abs. 8B246

REF SOURCE: Sb. Tezisy dokl. k XIX Nauchn. konferentsii. Uzhgorodsk. un-t, 1965. Ser. fiz. Uzhgorod, 1965, 104-127

TOPIC TAGS: field theory, g plane, coupling constant, partial amplitude, theoretical field amplitude, angular momentum, meson theory

ABSTRACT: The analytical properties of a partial amplitude with respect to the coupling constant g are discussed. In potential scattering the amplitude with respect to g is made up only of poles or stationary branching points; in the field theory moving branch points appear, whose position depends on energy and angular momentum. Ya. Azimov. [Translation of abstract] [SP]

SUB CODE: 20/

Card 1/1

L 18436-66 EWT(1)

ACC NR: AP6007793 SOURCE CODE: UR/0185/66/011/002/0133/0141

AUTHOR: Lomsadze, Yu. M.; Tokar, S. S.—Tokar', S. S.

ORG: Uzhgorod State University (Uzhgorods'kyy derzhuniversytet)

TITLE: Asymptotic behavior of the scattering amplitude for potential and field-theoretical scattering

SOURCE: Ukrayins'skyy fizychnyy zhurnal, v. 11, no. 2, 1966, 133-141

TOPIC TAGS: asymptotic property, potential scattering, scattering amplitude, high energy potential, recombination coefficient, perturbation, wave function

ABSTRACT: Proceeding from the results of the authors' paper (Yu. M. Lomsadze, S. S. Tokar, same source, v. 11, no. 4, 1966), formulas of the asymptotic and of the partial wave amplitude $a_\lambda(l, s)$ as $s \to \infty$ for scattering by the "physical" potentials of type $\lambda\int_{m_-}^{\infty} d\mu\sigma(\mu)\frac{e^{-r}}{r^\rho}$ are obtained. The dependence of the location $l^{lead}(0)$ of the "leading" Regge trajectory on the degree of singularity of the potential at zero is also obtained. The maximum strong interaction corresponding to $l^{lead}(0) = 1$ turns out to be nonachievable though any close approach to it is possible. An analytical continuation into the complex n-plane is carried out for the coefficient function $u_n(j, s)$ coinciding in the case of n = 0, 1, 2,... with

Card 1/2

L 18436-66

ACC NR: AP6007793

the coefficient of the nth term of the perturbation series for the field theoretical partial wave amplitude $a_\lambda(j, s) \equiv \sqrt{-s}\,\bar{f}_\lambda(j, s)$ ($\lambda = g^2$ and g is the physical coupling constant). For the case of "renormalizable" theories a connection is established between the asymptotic $a_\lambda(j, s)$ as $s \to \infty$ and the extreme right hand singularity $u_n(j, s)$ in the n-plane—the connection which may be trivially extended to the case of total amplitude $T_\lambda(s, t)$. Orig. art. has: 7 figures and 35 formulas. [Based on author's abstract.]

SUB CODE: 20/ SUBM DATE: 10Apr65/ ORIG REF: 006/ OTH REF: 006/

Card 2/2 mc

ACC NR: AR6019069 SOURCE CODE: UR/0274/66/000/001/A035/A036

AUTHOR: Tokar', S. Ye.; Shvachka, N. F.

TITLE: Noise in train radio communication in areas using alternating current as the motive force for trains

SOURCE: Ref. zh. Radiotekhnika i elekrosvyaz', Abs. 1A238

REF SOURCE: Tr. Khar'kovsk. in-ta inzh. zh.-d. trans., vyp. 72, 1965, 73-76

TOPIC TAGS: radio noise, radio communication

TRANSLATION: The results of studying train radio communications at the Pantayevka and Koristovka stations on the Odessa-Kisheneva Railroad are presented; the alternating current potential was 27 kv and the locomotive involved was electric locomotive WL 60. During the summer, the potential of interference was measured by instrument IP-12M at the train radio communication frequency of the experimental sector (2.586 MHz). When stationary radio station Zh-3 was hooked in to the terminal of reversed current, the noise potential was 300-400 μ, and when connected to a sloping beam type antenna the noise potential dropped to 150 μ; when connected to the locomotive antenna, it was 200--250 μ. The analysis of obtained results are included. 6 illustrations. I. D.

SUB CODE: 17,09

UDC: 621.396.931

Card 1/1

TOKAR', S.Ye.; LITVINENKO, L.N.

Use of the paramagnetic resonance method for determining the concentration of oxygen dissolved in water. Izv.vys.ucheb. zav.; radiofiz. 2 no.4:660-661 '59. (MIRA 13:4)

1. Khar'kovskiy gosudarstvennyy universitet.
(Water--Analysis)

69961

24.7900 SOV/141-2-4-16/19

AUTHORS: Tokar', S.Ye. and Litvinenko, L.N.

TITLE: Using the Paramagnetic Resonance Method for Determining the Concentration of Oxygen Dissolved in Water

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1959, Vol 2, Nr 4, pp 660 - 661 (USSR)

ABSTRACT: While studying paramagnetic resonance absorption in anthracite it had been noticed that the magnitude of the absorption fell sharply and then rose again when a pulverized sample was inserted in an evacuated enclosure. This was previously explained as due to paramagnetic atoms of atmospheric oxygen. The authors suggested that the effect could equally well be explained by the presence of oxygen dissolved in water adhering to the grains of coal. If this was so there should be an inverse proportionality between the total particle surface S of the coal and the intensity of absorption, Q (for a constant sample weight). Figure 1 shows this to be the case from measurements by Zavoyskiy's method at 3.10^8 c/s. By outgassing the particles by boiling in distilled water

Card1/2

Using the Paramagnetic Resonance Method for Determining the Concentration of Oxygen Dissolved in Water

the absorption observed "in the lump" was restored. It was also shown experimentally that the absorption varied inversely with the concentration of oxygen. The exact nature of the relationship was found as follows: an initially oxygen-free mixture of pulverized coal and distilled water was saturated with oxygen and its absorption measured as a function of temperature (Figure 2a); Figure 2б is from a reference book (Ref 2) and plots concentration of dissolved oxygen against temperature at atmospheric pressure. A comparison of these curves, plotted in Figure 3, establishes the inverse relationship between absorption and oxygen concentration. There are 3 figures and 2 Soviet references.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet (Khar'kov State University)

SUBMITTED: May 12, 1959

TOKAR' Sh. Z.

TOKAR' Sh. Z. -- "Hygienic Training and Education of Students of Trade Schools of the Metalworking Industry." Sub 7 Oct 52, Central Inst for the Advanced Training of Physicians. (Dissertation for the Degree of Candidate in Medical Sciences.)

SO: Vechernaya Moskva January-December 1952

TOKAR, Sh. Z.

[Health education in trade schools of the metal working industry; aid for physicians] Sanitarnoe prosveshchenie v remeslennykh uchilishchakh metalloobrabatyvaiushchei promyshlennosti; posobie dlia vrachei. Izd. 2-oe ispr. Moskva, M-vo sanitarnogo prosv. m-va zdravookhraneniia SSSR, 1955. 85 p. (MLRA 10:4)
(HEALTH EDUCATION)

TOKAR',Sh.Z.

[Materials for teaching the principles of hygiene and for health education work in trade schools of the metalworking industry; manual for physicians.] Materialy dlia prepodavaniia osnov gigieny i dlia sanitarno-prosvetitel'noi raboty v remeslennykh uchilishchakh metalloobrabatyvaiushchei promyshlennosti; posobie dlia vrachei. Moskva, Medgiz, 1955. 97 p.
(Health education) (MLRA 8:9)

ASEYEV, G.M.; TOKAR', Sh.Z.

[Physical culture and sports among working youth; materials for health education] Fizicheskaia kul'tura i sport sredi rabochei molodezhi; materialy dlia sanitarno-prosvetitel'noi ratoty. Moskva, 1956. 60 p. (MIRA 11:3)
(PHYSICAL EDUCATION AND TRAINING)

TOKAR', Sh.Z., kandidat meditsinskikh nauk (Moskva)

"Textbook for training members of health brigades." Reviewed by Sh.Z.Tokar'. Fel'd. i akush. 22 no.5:59-61 My '57. (MLRA 10:6)
(FIRST AID IN ILLNESS AND INJURY)

TOKAR', Sh.Z.; ABDULOVA, M.N. (Moskva)

Organization of health education for workers of the artificial fiber industry. Gig.truda i prof.zab. 3 no.3:46-48 My-Je '59. (MIRA 12:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut sanitarnogo prosveshcheniya i Kalininskiy meditsinskiy institut.
(KALININ--TEXTILE WORKERS) (HEALTH EDUCATION)

STRELKOVA, L.A., kand.med.nauk; TOKAR', Sh.Z., kand.med.nauk (Moskva)

Health education in the job training and technical education of industrial workers. Sov.zdrav. 20 no.2:20-25 '61. (MIRA 14:5)
(HEALTH EDUCATION) (VOCATIONAL EDUCATION)

DYMSHITS, Mikhail Abramovich; TOKAR', Teodor Semenovich; PREYS, G.A., kandidat tekhnicheskikh nauk, dotsent, retsenzent; LEUTA, V.I., inzhener, redaktor; KUDENSKIY, Ya.V., tekhnicheskiy redaktor.

[Improving the operation of equipment and increasing its durability] Uluchshenie ekspluatatsii oborudovaniia i povyshenie ego dolgovechnosti. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1956.123 p. (Machinery--Maintenance and repair) (MLRA 9:6)

DERYAGIN, Georgiy Aleksandrovich; KOSHELEV, G.M., inzh., retsenzent; YEROKHIN, A.A., kand.tekhn.nauk, retsenzent; KONDRATOV, A.S., kand.tekhn.nauk; KONOROV, L.A., dotsent, kand.tekhn.nauk, red.; TOKAR', V.M., red.; GARNUKHINA, L.A., tekhn.red.

[Using technological methods for increasing the durability of machine parts] Povyshenie vynoslivosti detalei mashin tekhnologicheskimi metodami. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz, 1960. 202 p. (MIRA 13:11)
(Machine-shop practice)

PESHEKHONOV, Nikolay Fedorovich; KOROSTELEV, Yu.A., kand.tekhn.nauk, red.; TOKAR', V.M., izd.red.; NOVIK, A.Ya., tekhn.red.

[Devices for measuring pressure, temperature and flow direction in compressors] Pribory dlia izmereniia davleniia, temperatury i napravleniia potoka v kompressorakh. Moskva, Gos.nauchno-tekhn.izd-vo Oborongiz, 1962. 183 p. (MIRA 15:5)

(Air compressors) (Measuring instruments)

GEVORKYAN, Ruben Georgiyevich; TOKAR', V.M., red.; IOFFE, G.S., kand.fiz.-mat.nauk, dots., retsenzent; PUKHLIKOVA, N.A., tekhn.red.

[The law of conservation and transformation of energy] O zakone sokhraneniia i prevrashcheniia energii. Moskva, Gos.nauchn.tekhn. izd-vo OBORONGIZ, 1960. 112 p. (Moscow. Aviatsionnyi tekhnologicheskii institut. Trudy, no.46). (MIRA 13:11)
(Force and energy)

DALIN, Valeriy Nikitovich; TOKAR', V.M., red.; ROZHIN, V.P., tekhn. red.

[Design of structural elements of airplanes and helicopters; manual for making course-credit and diploma projects]Proektirovanie elementov konstruktsii samoletov i vertoletov; posobie po kursovomu i diplomnomu proektirovaniiu. Moskva, Oborongiz, 1962. 77 p. (MIRA 15:7)
(Airplanes—Design) (Helicopters—Design)

MEYEROVICH, Irma Isaakovna; TOKAR', V.M., red.; ROZHIN, V.P., tekhn. red.

[Distribution of stresses in compressor blades with presence of oscillations] Raspredelenie napriazhenii v kompressornykh lopatkakh pri kolebaniiakh. Moskva, Gos.nauchno-tekhn. izd-vo Oborongiz, 1961. 105 p. (MIRA 14:6)

(Compressors--Blades)

SAYBEL', Anatoliy Georgiyevich; TOKAR', V.M., red.; ORESHKINA, V.I., tekhn.red.

[Fundamentals of radio distance measurements; teaching aid] Osnovy radiodal'nometrii; uchebnoe posobie. Moskva, Gos. izd-vo obor.promyshl., 1960. 114 p. (MIRA 13:6)
(Telemeter)

BEKHLI, Yuriy Georgiyevich; MASLENNIKOV, M.M., prof., doktor tekhn. nauk, retsenzent; TOKAR', V.M., red.; ROZHIN, V.P., tekhn.red.

[Air injection system of the jet drive of a helicopter rotor; investigation of basic properties and characteristics] Kompressornaia sistema reaktivnogo privoda nesushchego vinta vertoleta; issledovanie osnovnykh svoistv i osobennostei. Moskva, Gos. nauchno-tekhn.izd-vo Oborongiz, 1960. 98 p. (MIRA 13:10)
(Rotors (Helicopters))

KAZANSKIY, A.V.; TOKAR', V.M., red.; ORESHKINA, V.I., tekhn.red.

[Decimal system of classification of industrial drawings and objects] Detsimal'naia obezlichennaia sistema klassifikatsii chertezhei i ob"ektov proizvodstva. Izd.2. Moskva, Gos.izd-vo obor.promyshl., 1959. 75 p. (MIRA 13:2)
(Classification, Decimal)

TOKAR', Ye.G., inzhener; KUDRYAVTSEVA, L.Z.

The use of a fixed temperature thermoregulator in the wool industry. Tekst.prom.16 no.4:36-38 Ap '56. (MLRA 9:7)
(Dyes and dyeing--Wool) (Thermostat)

USSR /Chemical Technology. Chemical Products and Their Application I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32235

Author : Tokar' Ye. G.

Inst : Central Scientific Research Institute of Wool

Title : Use of the Polarographic Method for the Determination of the Concentration of Solutions of Acid- and Mordant Acid Azo Dyes

Orig Pub: Nauchn.-issled. tr. Tsentr. n.-i. in-ta shersti, 1956, No 11, 133-140

Abstract: It has been ascertained that the polarographic method can be used to determine the concentration

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USSR /Chemical Technology. Chemical Products and Their Application I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32235

of acid dyes and mordant acid dyes (D), on the basis of the reduction of their azo-group at the dropping mercury electrode. Polarograms with well defined wave are obtained with D concentrations of the order of $5 \cdot 10^{-5}$ to $2 \cdot 10^{-4}$ mole/liter (optimal concentrations are given for 30 D) in 0.15 N Na_2CO_3 in the presence of 20 g/liter of Na_2SO_3 (to eliminate the oxygen waves) and several drops of a 1% solution of gelatin. There is a direct proportionality between wave heighth and concentration of the D, as a result of which the concentration of the

Card 2/4

USSR /Chemical Technology. Chemical Products and Their Application I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32235

D under study can be determined by means of a calibration graph (based on measurement data obtained on using solutions of D of known concentration). A conjoint determination of several D in a mixture is possible if the half-wave potentials show appreciable differences. Although most D have fairly similar half-wave potentials, within the range from - 0.6 to 0.9 v, such determinations are possible on using precise procedures for each variant of the mixture. The polarograms of mixed solutions of D show 2 waves each of which

Card 3/4

USSR /Chemical Technology. Chemical Products and Their Application I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32235

characterizes the content of the corresponding D. Good reproducibility has been attained on repeated determinations. Deviations from the mean value amount to 2-3%.

Card 4/4

GUSHCHA, F.S., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; TOKAR', Ye.G., starshiy nauchnyy sotrudnik; EKHISKELASHVILI, G.I., mladshiy nauchnyy sotrudnik; BOCHKAREVA, M.I., mladshiy nauchnyy sotrudnik

Basic principles of the production line method for the manufacture of top silver in wool spinning. Tekst.prom. 21 no.12:17-22 D '61. (MIRA 15:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti.

(Assembly-line methods)
(Woolen and worsted spinning)

TOKAR', Ye.G., starshiy nauchnyy sotrudnik; KUCHINA, L.F.

Use of sound vibrations in the scouring and dyeing of woolen fabrics and fibers. Tekst.prom. 22 no.9:31-34 S '62. (MIRA 15:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti (for Tokar') 2. Starshiy laborant khimiko-tekhnologicheskoy laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta sherstyanoy promyshlennosti (for Kuchina).

(Dyes and dyeing—Wool)
(Ultrasonic waves—Industrial applications)

TOKAR', Ye.G.; BOGOSLOVSKIY, B.M.

Relation between the structure of acid monoazo dyes and their ability to be absorbed by wool. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.4:157-162 '58. (MIRA 11:11)

1. Moskovskiy tekstil'nyy institut.
(Azo dyes) (Dyes and dyeing--Wool)

TOKAR' YE. G.

TOKAR', Ye.G., inzh.; ATLASOV, A.G., inzh.

Location of oxygen sections at metallurgical plants. Kislorod 10 no.6:22-24 '57. (MIRA 11:4)
(Metallurgical plants--Safety measures)
(Oxygen) (Acetylene)

TOKAR', Ye.G., inzh.

Automatic control of the washing process for woolen fabrics.
Tekst.prom. 19 no.2:47-49 F '59. (MIRA 12:5)
(Woolen and worsted manufacture) (Automatic control)

TOKAR', Ye. G.

Tokar', Ye. G.- "The electrometric method of pH control of solutions in the finishin and dyeing of woolen fabrics," In the symposium: Nauch.-issled. trudy (Nauch.-issled. in-t sherst. prom-sti), Moscow-Leningrad, 1949, p. 75-87

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 18, 1949).

LIFSHITS, R.M.; TOKAR', Ye.G.; DOMITEYEVA, I.A.; ROGOVIN, Z.A.

Investigating the possibility of modifying the properties of fabrics made from rayon staple fibers by means of polyacrylonitrile grafting. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.4:95-98 '63. (MIRA 16:11)

1. Moskovskiy tekstil'nyy institut i TSentral'nyy nauchno-issledovatel'skiy institut shersti.

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 64

plastic

ABSTRACT: This Author Certificate presents a method for obtaining

[illegible], I.E. G.; SHIBKO, N.A.

Textile Finishing

Signalling device in finishing production. Tekst. prom. No. 6, 1952.

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

KORSHAK, V.V., nauchnyy sotrudnik; MOZGOVA, K.K., nauchnyy sotrudnik; YEGOROVA, Yu.V., nauchnyy sotrudnik; TOKAR', Ye.G., nauchnyy sotrudnik; ROZOVA, T.S., nauchnyy sotrudnik; Prinimala uchastiye KUCHINA, L.F.

Using the method of graft copolymerization ofr the modification of wool characteristics. Tekst. prom. 23 no.7:64-66 Jl '63. (MIRA 16:8)

1. Institut elementoorganicheskiky soyedineniy AN SSSR (for Korshak, Mozgova, Yegorova). 2. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti (for Tokar', Rozova). 3. Starshiy laborant khimiko-tekhnologicheskoy laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta sherstyanoy promyshlennosti (for Kuchina).

(Yarn—Testing)

L 46188-66 EWT(m) DS/RM

ACC NR: AP6030600 (A,N) SOURCE CODE: UR/0413/66/000/016/0092/0092

INVENTOR: Cherneva, Ye. P.; Kargin, V. A.; Tokar', Ye. G.; Tunitskiy, N. N.

ORG: none

TITLE: Preparation method for a homogeneous ion-exchange membrane. Class 39, No. 185052

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 92

TOPIC TAGS: ion exchange membrane, COPOLYMERIZATION, SULFONIC ACID, ETHYLENE, VINYL COMPOUND

ABSTRACT: An Author Certificate has been issued for a preparative method for a homogeneous polymeric ion exchange membrane, involving ultra-violet-initiated copolymerization of ethylenesulfonic acid derivatives with vinyl compounds, subsequent cross-linking of the copolymer, and fabrication of the film. The ethylenesulfonic acid derivative used is sodium ethylenesulfonate and the vinyl compound, acrylic acid; the components are copolymerized, the film is fabricated and then subjected to irradiation [unspecified]. [SM]

SUB CODE: 11/ SUBM DATE: 23Mar62

Card 1/1 fv UDC: 661.183.125:678.741-134.432:011:537.591

TOKAR', Ye.N. (Moskva)

Some properties of a gyrocompass having a period of 17 hours.
Prikl. mat. i mekh. 25 no.3:570-575 My-Je '61. (MIRA 14:7)
(Gyrocompass)

28344 S/124/61/000/007/001/044
A052/A101

13,2000

AUTHORS: Rabshenbakh, B. V., Sokar', Ye. N.

TITLE: Some problems of control in interplanetary space

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 7, 1961, 13, abstract 7A131 (V sb. "Iskusstv. sputniki Zemli. Vyp. 5". Moscow, AN SSSR, 1960, 41-53)

TEXT: The possibility of controlling the motion of an interplanetary missile by means of prescribing the rotation law of the reactive control flywheels is being proved. The methods of reducing the energy consumption at such a control are investigated. As an example the case of small deviations of the missile from the pre-selected direction is considered.

V. Degtyarev

[Abstracter's note: Complete translation]

Card 1/1

AUTHOR: Tokar', Ye. N.

TITLE: On the effect of errors in the distribution of masses in a space vehicle upon the accuracy of its orientation

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 3, 1965, 354-358

TOPIC TAGS: space vehicle, [illegible]

ABSTRACT: [illegible]

axes, [illegible] not substantial are explained. It is stressed that the largest effect upon the performance of the orientation system is exerted by the

Card 1/2

L 54858-65
ACCESSION NR: AP5015662

third group of deviations. The problem of calculating errors in the orientation of a space vehicle arising from deviations in the directions of the principal central axes of inertia from the axes of the space vehicle is considered. A method is presented

on the orientation [illegible] with respect to these axes. To overcome [illegible] method, [illegible]

negative [illegible]

(ER)

ASSOCIATION: none

SUBMITTED: 10Jun64 ENCL: 00 SUB CODE: SV

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4031

Card 2/2

26745
S/040/61/025/003/022/026
D208/D304

13.2520

AUTHOR: Tokar', Ye.N. (Moscow)

TITLE: On some properties of gyroscopic compass with a 17-hour period

PERIODICAL: Akademiya nauk SSSR. Otdeleniye tekhnicheskikh nauk. Prikladnaya matematika i mekhanika, v. 25,no. 3, 1961, 570 - 575

TEXT: It is known that all gyroscopic compasses have two positions of equilibrium. To the 1st position corresponds the northern orientation of the kinetic moment vector of the system and is stable, while 2nd position corresponding to southern orientation is unstable. It is shown here that on the change of parameters resulting in the increase of the period of the system, four positions of equilibrium can be found, and that in the case of a gyroscopic compass under terrestrial conditions, phenomena appear, when the period exceeds 17 hours. A single rotor model resembling the early Sperry gyrocompass is considered. The coordinate system $x_0y_0z_0$

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(Fig. 2) is assumed to be on the surface of the earth and z_o is horizontal and directed north, while y_o is vertical and directed always from the Earth's center. If the gyroscope is on the fixed support then the angular velocity of $x_o y_o z_o$ coincides with the Earth's angular velocity due to 24-hour rotation, ω_*, whose horizontal component is (ω_*') in a z_o direction, and the vertical component (ω_*'') in a y_o direction. The xyz system is associated with the gyroscope shell. The x-axis coincides with the axis of suspension of the shell in the frame, the z-axis coincides with the direction of kinetic momentum of the gyroscope and it is assumed that axis of the frame is stabilized in a y_o direction. α and β are given in Fig. 2. Then $\omega = \omega_* + \omega_*'' + \dot{\alpha} + \dot{\beta}$. It is assumed, that

$$M_{z\Sigma} = 0 \qquad \Gamma = \text{const.} \tag{1}$$

where $M_{z\Sigma}$ - projection of the principal moment of external forces

On some properties of ...

acting on the gyroscope on z-axis, Γ - kinetic moment of the gyroscope. Components of the moment of correcting pendulum are

$$M_x = p\ell \sin\beta, \qquad M_y = -p\ell \frac{\ell_2}{\ell_1} \sin\beta, \quad M_z = 0, \tag{2}$$

where p - weight of pendulum, ℓ - distance from the suspension axis to the center of gravity of the pendulum, ℓ_1 and ℓ_2 are shown in Fig. 3. Equations of motion of the gyroscope in components on the axes xyz of the triangular frame are

$$\Gamma\omega_*'' \cos\beta - \Gamma\omega_*' \cos\alpha \sin\beta + \Gamma\dot{\alpha}\cos\beta = k\sin\beta$$
$$\Gamma\omega_*' \sin\alpha + \Gamma\dot{\beta} = -h\sin\beta \tag{3}$$

where $k = p\ell$, $h = p\ell\ell_2/\ell_1$. Assumption $\dot{\alpha} = \dot{\beta} = 0$ gives

$$(\Gamma\omega_*' \cos\alpha_0 + k)\sin\beta_0 - \Gamma\omega_*'' \cos\beta_0 = 0, \quad \Gamma\omega' \sin\alpha_0 + h\sin\beta_0 = 0 \tag{4}$$

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possible positions of equilibrium. For the approximate north direction of kinetic moment vector

$$p^2 + \frac{h}{\Gamma} p + \frac{(\Gamma\omega_*' + k)\omega_*'}{\Gamma} = 0 \qquad (7)$$

shows that the northern position of equilibrium of the axis of the gyrocompass is asymptotically stable for any h, k and Γ. For southern position putting $\alpha' = \pi - a$ results in

$$\alpha_0' = -\frac{h}{k - \Gamma\omega_*'} \frac{\omega_*''}{\omega_*'}, \qquad \beta_0 = \frac{\omega_*''}{k - \Gamma\omega_*'} \qquad (8)$$

$$\Gamma\dot{\Delta}\alpha' + (k - \Gamma\omega_*')\Delta\beta = 0, \qquad \Gamma\Delta\dot{\beta} + h\Delta\beta + \Gamma\omega_*'\Delta\alpha' = 0$$

and

$$p^2 + \frac{h}{\Gamma}p - \frac{\omega_*'(k - \Gamma\omega_*')}{\Gamma} = 0$$

which shows that in the southern position the equilibrium becomes

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On some properties of ...

unstable only for $k \geqslant \Gamma\omega'$. As an example a gyrocompass on the equator is considered, for which T' is found to be 16 hrs. 58.3 min.$\approx$ $\approx$17 hours. Considerations of stability of (α_{03}, β_{03}) and (α_{04}, β_{04}) lead to

$$p^2 + \left(\sin\alpha_0 \operatorname{tg}\beta_0 + \frac{h}{\Gamma\omega_*}\cos\beta_0\right)\omega_* p + \tag{11}$$

$$+\left[\frac{h}{\Gamma\omega_*}\sin\alpha_0\sin\beta_0 + \sec^2\beta_0\cos\alpha_0\left(\cos\alpha_0 + \frac{k}{\Gamma\omega_*}\right)\right]\omega_*^2 = 0$$

and

$$p^2 + \frac{2k^2 + h^2 - 2\Gamma^2\omega_*^2}{\sqrt{h^2 + k^2 - \Gamma^2\omega_*^2}}\,\omega_* p - (\Gamma^2\omega_*^2 - k^2) = 0 \tag{12}$$

which show that the position exist for $\Gamma\omega > k$ in unstable equilibrium and are singularities of the saddle type. In Fig. 4 thick lines divide stability regions of (α_{01}, β_{01}) and (β_{02}, β_{02}) and

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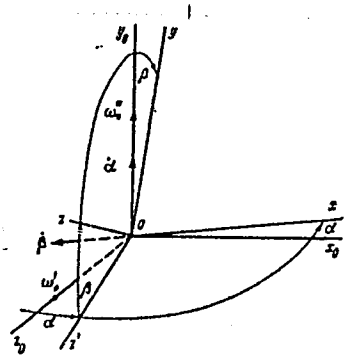
On some properties of ...

the region of stability of $(\alpha_{02}, \beta_{02})$ is shaded. There are 5 figures.

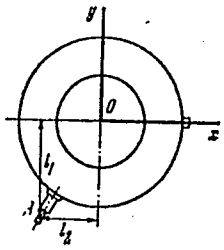
SUBMITTED: May 28, 1960

Fig. 2.



Фиг. 2

Fig. 3.



Фиг. 3

Card 6/7

L 46596-66 EWT(d)/FBD/FSS-2/EWT(1)/EWP(m)/EEC(k)-2 IJP(c) AST/GW/BC

ACC NR: AP6019589 SOURCE CODE: UR/0293/66/004/003/0356/0366

AUTHOR: Tokar', Ye. N.

ORG: none

TITLE: Possible orientation principles of spacecraft with respect to rotating system of coordinates

SOURCE: Kosmicheskiye issledovaniye, v. 4, no. 3, 1966, 356-366

TOPIC TAGS: spacecraft, satellite orientation, gyroscope

ABSTRACT: Several principles of orientation of a spacecraft are discussed with respect to a coordinate system moving at nonzero angular velocity which vector is constantly oriented in the absolute space. The craft axes are assumed to have small oscillations such that the given axes $Ox_0y_0z_0$ coincide with similar axes Oxyz through a small rotation whose projection on the axes x,y,z is equal to θ_x, θ_y, θ_z. The operational details are described for a sensing element which allows determination of the above angles. It is first shown that such a sensing element can be used to stabilize the spacecraft simultaneously along the coordinates θ_x and θ_y. Next, different principles are described which allow for possible orientations of the spacecraft under the condition $\theta_x = \theta_y = 0$. These are: measuring the absolute angular

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UDC: 629.196.3:531.38

L 46596-66

ACC NR: AP6019589

velocity of the craft; measuring linear acceleration of points on the craft the two-stage Foucault gyroscope; a kinematic principle where the direction of an arbitrary axis is held fixed in absolute space; the principle of adjusting gyroscopes (one or two); and the principle of continuously stabilizing the spacecraft. The author expresses his gratitude to B. V. Raushenbakh and V. N. Brantz for a series of valuable comments. Orig. art. has: 21 equations and 5 figures. [04]

SUB CODE: 22/ SUBM DATE: 06Dec65/ ORIG REF: 001/ OTH REF: 003/ ATD PRESS: 5029

Card 2/2 afs

TOKAR', Yu.

Conference on vascular diseases. Zdrav. bel. 8 no.1:68-69 Ja '62. (MIRA 15:3)
(BLOOD VESSELS--DISEASES)

TOKAR', Yu.K.

Dispensary services for hernia patients employed in industrial plants in Minsk. Zdrav.Bel. no.3:52-53 '62. (MIRA 15:5)

1. Iz kafedry obshchey khirurgii Minskogo gosudarstvennogo meditsinskogo instituta (zaveduyushchiy kafedroy - zasluzhennyy deyatel' nauki UkrSSR T.Ye. Gnilorybov) 3-y klinicheskoy bol'nitsy g. Minska (glavnyy vrach A.I. Korkhov).
(HERNIA) (MINSK--INDUSTRIAL MEDICINE)

VASIL'YEV, G., podpolkovnik, voyennyy letchik pervogo klassa; TOKAR', Zh., kapitan, voyennyy letchik pervogo klassa.

With rockets at ground targets. Av. i Kosm. 47 no.1:30-32 Ja '65 (MIRA 18:1)

TOKARCHIK, N.

Itinerant medical council meeting at a feldsher -- midwife station.
Zdrav. Bel. 7 no.6:71 Je '61. (MIRA 15:2)
(MEDICINE, RURAL)

TOKARCHIK, N.P. (Zherebkovichi Brestskoy oblasti)

Exchange of experience between feldsher-midwife centers and collective farm maternity homes. Fel'd. i akush. 26 no.12: 42-43 D '61. (MIRA 14:12)

(BREST PROVINCE--MATERNITY HOMES)
(PUBLIC HEALTH, RURAL)

TOKARCHIK, N.P., fel'dsher (Brestskaya oblast')

Preventive inoculation file at a feldsher and midwife station.
Fel'd. i akush. 27 no.1:52-53 Ja '62. (MIRA 15:3)
(VACCINATION)

TOKARCHUK

TOKARCHUK, B. F., inzh.

Four-spindle horizontal drilling machine. Der. prom. 12 no.2: 26-27 F '63. (MIRA 16:4)

1. Vitebskaya mebel'naya fabrika.

(Woodworking machinery)

TOKARCHUK, B.F., inzh.

Continuous line for the manufacture of wire frames for upholstered furniture padding. Der. prom. 13 no.5:23-24 My '64. (MIRA 17:6)

1. Vitebskaya mebel'naya fabrika.

LUGOVSKIY, S.I., doktor tekhn.nauk; OSHMYANSKIY, I.B., gornyy inzh.; TOKARCHUK, D.M., gornyy inzh.

Efficient speeds of air circulation according to the carrying out of dust on the scraper levels. Sbor.nauch.trud. KGRI no. 21: 122-127 '63. (MIRA 17:7)

YUDENICH, Vladimir Petrovich; TOKARCHUK, Leonid Zakharovich; KHLYPENKO, Zh.N., red.

[A deserved fame; achievements of the N.I.Popkova communist labor brigade in the Frunze Bread Combine] Zaslu-zhennaia slava; dostizheniia brigady kommunisticheskogo truda N.I.Popovoi na Frunzenskom khlebkombinate. Frunze, Sovet narodnogo khoziaistva Kirgizskoi SSR, [n.d.] 10 p. (MIRA 17:5)

TOKARCIK, Ladislav, inz.

Organization of research and education of young scientists.
Vestnik CSAZV 9 no.3:160-161 '62.

TOKARCIK, Ladislav, Inz.

Activity of the Forestry Commission, Vestnik CSAZV 7 no.10:533-534 '60.

(Czechoslovakia--Forests and forestry) (EEAI 10:3)

TOKARCIK, Ladislav, Inz.

Forest soil improvement in the plain of Eastern Slovakia. Vestnik CSAZV 7 no.4:226-227 '60. (EEAI 9:9)
(Czechoslovakia--Forests and forestry)
(Czechoslovakia--Soils)

TOKARCHIK, Ladislav, ing.

National Conference on the theme "Forest and Water." Vestnik CSAZV 6 no.11:617-619 '59. (EEAI 9:5)
(Czechoslovakia--Forests and forestry) (Czechoslovakia--Water)

TOKARCHIK, N.

Lengthen the study term in advanced medical courses. Zdrav. Belor. 5 no.1:77 Ja '59. (MIRA 12:7)

1. Zherebkovichskiy fel'dshersko--akusherskiy punkt.
(BOBRUYSK--MEDICINE--STUDY AND TEACHING)

TOKARCHUK, B.

Oscillator for "DAG-1." Radio no.7:55-56 Jl '58. (MIRA 11:9)
(Magnetic recorders and recording--Equipment and supplies)
(Oscillators, Electron-tube)

AUTHOR: Tokarchuk, B.

107-58-7-34/43

TITLE: The Generator for the "DAG-1" (Generator dlya "DAG-1")

PERIODICAL: Radio, 1958, Nr 7, pp 55-56 (USSR)

ABSTRACT: The LF generator described is used for obtaining standard speeds on the "DAG-1" tape-winder electric motor fitted to a tape recorder. It consists of a master stage acting as a multi-vibrator (Figure 1) and a powerful two-stage amplifier for obtaining the necessary oscillating power. A pair of coupled variable resistances can vary the frequency between 25-50 c and thus the tape-speed from 192-385 mm/sec. By changing the values of these resistances, the frequency of the generator may be varied from 15-75 c. Still better is the replacement of the variable resistances by a bank of fixed resistances with switching equipment giving a choice of fixed tape-speeds. Details of the generator's construction are given. There are 2 circuit diagrams and 1 diagram.

1. Magnetic recording systems--Controls 2. Electric motors --Controls

Card 1/1

BORODICH, I.D.; TOKARCHUK, B.F.

Pneumatic frame for veneering table legs. Der. prom. 13 no.12: 27 D '64 (MIRA 18:2)

1. LYUBINSKIY, Yu S. ; TOKARCHUK, D.A.

2. USSR (600)

4. Agricultural Machinery

7. Something new in mechanizing feed preparation on the swine farm. Dorm. baza 3 no. 1952

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

1. LYUBINSKIY, Yu. S.: TOKARCHUK, D. A.

2. USSR (600)

4. Feeding and Feeding Stuffs

7. Something new mechanizing feed preparation on the swine farm. Korm. baza 3 No. 10, 1952.

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

TOKARCHUK, V.G., fel'dsher (g. Khmel'nitskiy)

Use of electrocoagulation in treating warts. Fel'd. i akush. 23 no.12:44-45 D'58 (MIRA 11:12)
(WARTS)
(ELECTROSURGERY)

TOKARCIK, Ladislav, Inz.

National Conference on Seed Improvement. Vestnik CSAZV 7 no.11: 612-614 '60. (EEAI 10:3)
(Czechoslovakia--Seed)

TOKARCIK, Ladislav, Inz.

Activities of the forestry section of the Branch of the Czechoslovak Academy of Agricultural Sciences in Bratislava. Vestnik CSAZV 7 no.3:172-174 '60. (EEAI 9:7)
(Czechoslovakia--Forests and forestry)

TOKARCIK, Ladislav, Inz.

Finished studies on the mechanization of forestry. Vestnik CSAZV 7 no.12:664-665 '60. (EEAI 10:4)
(Czechoslovakia--Forests and forestry)

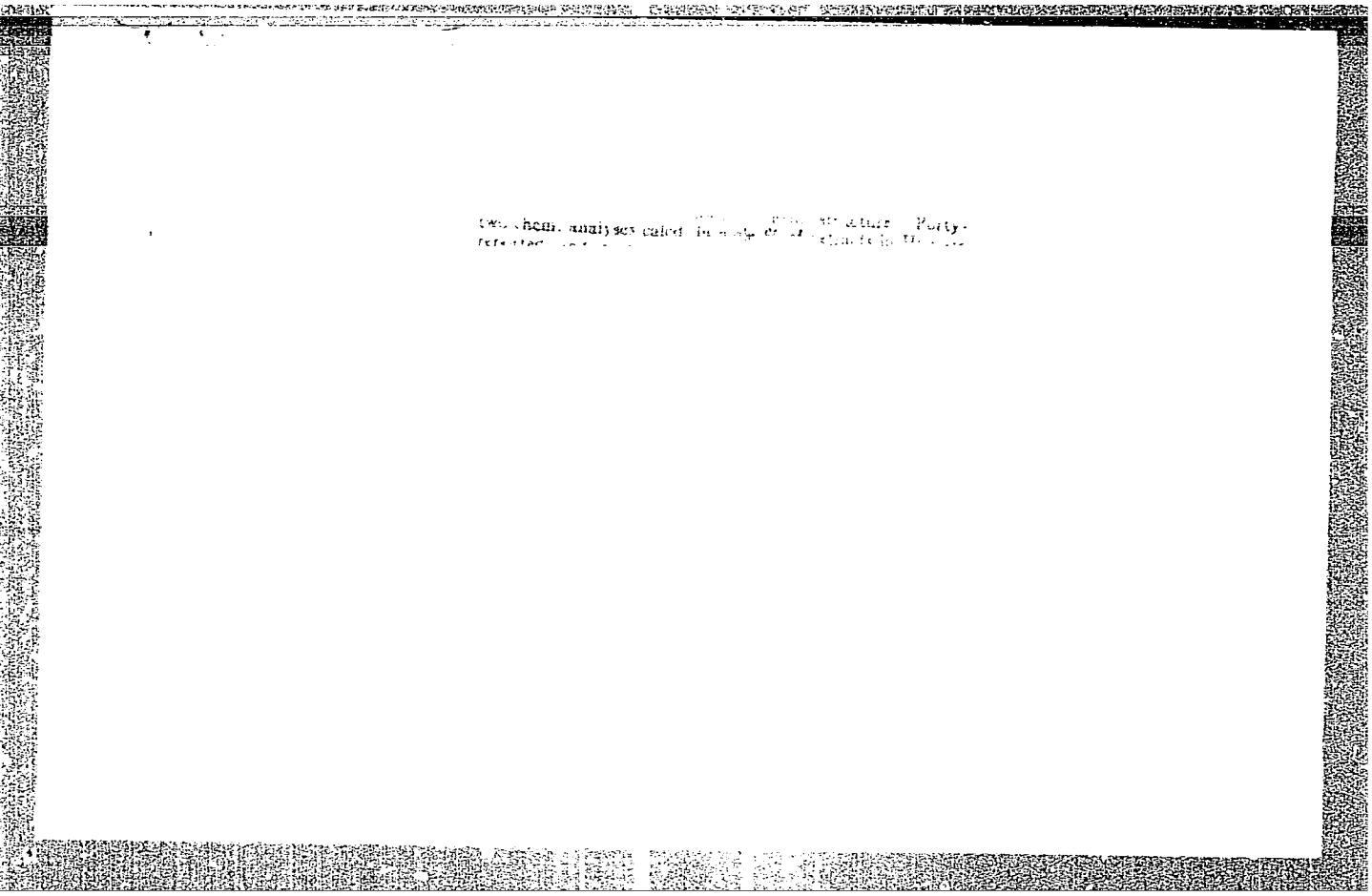
KOVALEV, Ye.B., inzh.; BURKOVSKIY, A.N., inzh.; TOKARENKO, A.T., inzh.

Heat emission in the intrarib hull grooves of enclosed induction motors. Elektrotekhnika 36 no.11:27-29 N '65.
(MIRA 18:11)

TOKARENKO, I.I.

Influence of certain environmental factors on conditioned and unconditioned winking reflexes [with summary in English]. Fiziol.zhur. Ukr. 4 no.5:597-603 S-O '58 (MIRA 11:11)

1. Stalinskiy meditsinskiy institut, kafedra normal'noy fiziologii.
(REFLEXES)
(EYE)



SOSKIN, L.M.; TOKARSKIY, N.S.; KRASIL'SHCHIK, N.L.; BARANOV, I.A., inzh., red.; KLOPOVA, T.B., tekhn.red.

[Making work piece blanks from nonferrous alloys by stamping molten metal] Poluchenie zagotovok detalei tsvetnykh splavov metodom shtampovki iz zhidkogo metalla. Leningrad, 1956. 12 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.20. Liteinoe proizvodstvo) (MIRA 10:12)
(Forging)

TOKARCIK, L.

"Maintaining Creek Dikes in a Good Condition" p. 134, (POLANA, Vol. 9, no. 6, June 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

TOKARCHIK, N.P.

Work of the feldsher-midwife center. Zdrav. Belor. 6 no.3:17-19 Mr '60. (MIRA 13:5)

1. Iz Zherebkovichskogo fel'dshersko-akusherskogo punkta Lyakhovichskogo rayona Brestskoy oblasti (glavnyy vrach rayona S.I. Petlitskiy).
(LYAKHOVICHI DISTRICT (BREST PROVINCE)--PUBLIC HEALTH, RURAL

TOKARCHUK, V.G., fel'dsher (g.Khmel'nitskiy).

Participation of sub-professional medical personnel in eradicating infectious skin and venereal diseases. Fel'd.i akush. no.1: 38-39 Ja '54. (MLRA 7:1)

(Skin--Diseases) (Venereal diseases)

KRUPA, Barbara; TOKARCZYK, Tadeusz

Ulcerative changes in the respiratory tract in true uremia. Polskie arch. med. wewn. 27 no.4:541-546 1957.

1. Z III Klinki Chorob Wewnetrznych A. M. w Gdansku. Kierownik: prof. dr med. J. Penson. Adres autora: Sopot, ul Dabrowskiego 4 m 6.

(UREMIA; complications,
resp. ulcerations (Pol))
(RESPIRATORY TRACT, ulcer,
in uremia (Pol))

KOVALEV, Ye.B., inzh.; TOKARENKO, A.T., inzh.; BURKOVSKIY, A.N., inzh.

Study of finned casings of VAO series electric motors. Elektrotekhnika 35 no.12:3-5 D '64. (MIRA 18:4)

TOKARENKO, I.I.

Change in the respiratory component of a motor defense conditioned reaction in various functional states of the respiratory center. Zhur.vys.nerv.deiat. 12 no.1:128-134 Ja-F '62. (MIRA 15:12)

1. Chair of Normal Physiology, Medical Institute, Donetsk.
(CONDITIONED RESPONSE) (RESPIRATION)

TOKARENKO, I.I.; LIKHTENSHTEYN, E.M.

Methodology of recording motor conditioned and unconditioned reflexes and their quantitative measurement. Zhur. vys. nerv. deiat. 15 no.3:573-577 My-Je '65.

(MIRA 18:6)

1. Kafedra normal'noy fiziologii Donetskogo meditsinskogo instituta im. A.M. Gor'kogo.

TOKAREVSKIY, I. I.

Dissertation: "Extinction of the Twitching Reflex Caused by Irritation of the Helix in a Rabbit." Cand Med Sci, Kiev Order of Labor Red Banner Medical Inst imeni academician A. A. Bogomolets, 6 May 54. (Pravda Ukrainy, Kiev, 25 Apr 54)

SO: SUM 243, 19 Oct 1954

TOKARENKO, I.I.

Extinction of the blinking reflex produced by stimulation of the helix in rabbit. Vop. fiziol. no.6:18-27 '53. (MLRA 8:1)

1. Kafedra normal'noy fiziologii Stalinskogo meditsinskogo instituta im. Gor'kogo.

(REFLEX,
blinking reflex extinction in rattib after prod. by stimulation of helix)
(EYE, physiology,
blinking reflex, extinction after prod. by stimulation of helix)
(EAR, physiology,
stimulation producing blinking reflex in rabbit, extinction time)

TOKARENKO, I.I.

Localization of some forms of conditioned and unconditioned inhibition. Zhur. vyss. nerv. deiat. 11 no.4:703-710 Jl-Ag '61. (MIRA 15:2)

1. Chair of Normal Physiology, Medical Institute, Stalino.
(CONDITIONED RESPONSE) (INHIBITION)

TOKARIY, [illegible]

Requirements of materials and the methods of their preparation for cemented bridges. Avt.dor. 28 no.6:23-24 Je '65.
(MIRA 18:8)

L 44431-66 EWT(d)/FSS-2/EWT(1)/EWP(1)
ACC NR: AP6023572 (A) SOURCE CODE: UR/0018/66/000/007/0053/0056

AUTHOR: Tokarev, A. (Colonel, Corps of Engineers) 24 B

ORG: none

TITLE: Maintenance of combat material

SOURCE: Voyennyy vestnik, no. 7, 1966, 53-56

TOPIC TAGS: military tank, armored vehicle, tractor, military maintenance, refueling

ABSTRACT: The author discusses the problem of technical maintenance of tanks, armored vehicles, and tractors in military units. A diagram and photographs showing the general arrangement of technical services within a unit are given in the original article. Technical maintenance includes control and technical posts, a compressed-air cleaning point, a refueling point, a washing point, and a park area. The location of the hydraulic system at the washing point is indicated on a diagram. The procedure of technical maintenance of combat material is described. Orig. art. has: 7 figures. [NT]

SUB CODE: 15/ SUBM DATE: none/

Card 1/1

TOKAREV, A.A.

Determining the operational fuel consumption of urban motorbuses.
Avt.prom. 27 no.12:12-18 D '61. (MIRA 15:1)

1. Nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Motorbuses--Fuel consumption)

AUTHORS: Gol'breykh, A.A., ~~Tokarev, A.A.~~ SOV-113-58-10-7/16

TITLE: The Influence of Viscosity of the Selection of the Working Fluid of Hydraulic Transmissions (Vliyaniye vyazkosti na vybor rabochey zhidkosti gidroperedach)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 10, p 25-26 (USSR)

ABSTRACT: The Moscow Automobile Plant imeni Likhachev is working on the development of a hydraulic transmission for the town bus "ZIL-129". One of the design peculiarities is that the oil serves as a lubricant besides serving as a working fluid in the torque converter. The design requires a special oil with low viscosity and a maximum specific weight. A suitable design of the torque converter may change the requirements for the working fluid. Detailed investigations were conducted to select a working fluid for the torque converter "E129". This working fluid considerably improved the work characteristic of the torque converter. Figure 1 shows the characteristics of the "E129" torque converter. The research was divided into test stand operations and actual road tests. The latter were performed over a distance of 25,000 km with a "ZIL-129B" bus with a load corresponding to 75 passengers. For these tests, oils of types "GTM" and "GTM-2" were used.

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The Influence of Viscosity of the Selection of the Working Fluid of Hydraulic Transmissions

No excessive wear was detected. The characteristics of the oils "GTM" and "GTM-2" are shown graphically. It was established that a three-stage torque converter is sensitive to the viscosity of the working fluid. Its sensitivity increases with decreasing viscosity. For the future, synthetic working fluids which possess the required properties of a working fluid and are lubricants at the same time may become important. There are 6 graphs.

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev)

1. Fluids--Viscosity 2. Hydraulic systems--Effectiveness
3. Automatic transmissions--Test methods 4. Oils--Test results