L 63353-65 EWA(b)-2/EWA(j)/EWT(1) JK

ACCESSION NR: AP5011277 UR/0016/65/000/004/0041/0047

AUTHOR: Lukin, Ye. P.; Vasil'yev, N. N.; Vorob'yev, A. A.; Malina, V. P.

TITLE: Immunological properties of a soluble Rickettsia prowazeki antigen. Report I. Antigenic structure of Rickettsia prowazeki according to chromatographic analysis data using DEAYe-cellulose

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 4, 1965, 41-47

TOPIC TAGS: rickettsia, Rickettsia prowazeki, soluble antigen, immunochemistry, chromatographic analysis, adsorption chromatography, diethylaminoethyl, cellulose, fractionation

ABSTRACT: The fractional structure of soluble R. prowazeki antigens isolated from a Breinl virulent strain and a strain E vaccine was analyzed by chromatographic methods using ion exchange diethylaminoethyl cellulose (DEAYe-cellulose) in the adsorbent columns. Findings show that the crude and purified soluble antigen preparations of the Breinl virulent strain contain three fractions with different

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physicochemical properties. The group-specific and type-specific components of the soluble antigen are bound to the same fractions. The group-specific antigen of R. prowazeki, shared in common by R. mooseri, accompanied the type-specific antigen of R. prowazeki through the purifying stages, and could not be isolated by ammonia sulfate salting out, chromatographic separation, or a combination of both methods. The soluble antigen of the strain E vaccine has the same physicochemical properties as that of the Breinl virulent strain, and also consists of 3 different fractions. It should be noted that the purification of soluble R. prowazeki antigen preparations by ammonia sulfate salting out, followed by fractionating with DEAE-cellulose filter columns, purifies the antigen by 40-50 times. Orig. art. has: 2 figures.

ASSOCIATION: None.

SUBMITTED: 02Apr64 ENCL: 00 SUB CODE: LS

NR REF SOV: 005 OTHER: 006

Card 2/2

L 27955-66

ACC NR: AP6017739 SOURCE CODE: UR/0095/66/000/001/0016/0019

AUTHOR: Yuryshev, A. N.; Vasil'yev, N. P.; Skomorovskiy, Ya. Z.; Kortunov, V. A.; Yeliseyev, M. Ya.; Vaynshel', A. Z.

ORG: none

TITLE: Determination of the parameters to be considered for anchor reinforcement of pipelines

SOURCE: Stroitel'stvo truboprovodov, no. 1, 1966, 16-19

TOPIC TAGS: pipeline, concrete

ABSTRACT: The first operations on the introduction of threaded anchors in place of concrete ballast in swampy or flooded regions in the USSR are going on under the auspices of the Ministry of the Gas Industry. Experiments performed in 1965 showed that treaded anchors have great advantages of lightness and cheapness over concrete ballast. Anchors consisting of two threaded rods plus a band to go over the top of a pipe section were designed, with tread blade diameters from 250 to 400 mm, thread intervals of 80-140 mm. These anchors are to be tested on the Belousovo-Leningrad gas pipeline. The authors demonstrate in this article a calculation method which they have developed to determine the loads and requirements placed on the anchor devices they have designed for the cases where the limiting factors in calculation are: the load placed upon a pipeline section by an anchor; the maximal permissible bend in pipeline between anchor sections; and the load-carrying capacity of the devices themselves. The load carrying capacity of the anchors depends directly on the conditions of the soil into which they are screwed, and can be determined directly by measuring the torque required to penetrate the ground. Orig. art. has: 1 figure and 7 formulas. [JPRS]

SUB CODE: 13 / SUBM DATE: none

Card 1/1 BLC UDC: 621.643.002.001.24

SKOMOROVSKIY, Ya.Z.; VASIL'YEV, N.P.

Determining the radii of the turns and the additional load of pipelines laid in swamped and flooded regions. Stroi. truboprov. 9 no.8:35-36 Ag '64. (MIRA 17:12)

ATAVIN, A.S.; VASIL'YEV, N.P.; VASIL'YEVA, A.A.

Interaction of vinyl alkyl ethers with trimethylolethane. Izv. SO AN SSSR no.7 Ser.khim.nauk no.2:93-98 '63. (MIRA 16:10)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

MAYSTRENKO, K.M.; VASIL'YEV, N.P., poyezdnoy dispetcher; SOKOL, E.N., inzh.

Efficiency of the "through intervals" system in track maintenance and repair work. Zhel.dor.transp. 46 no.3:80-82 Mr '64. (MIRA 17:3)

1. Glavnyy inzh. Kirovskogo otdeleniya Gor'kovskoy dorogi (for Maystrenko).

BELEN'KIY, N.P., kandidat tekhnicheskikh nauk; VASIL'YEV, N.P., inzhener.

Lengthening the receiving and departure tracks is an important element in station reconstruction. Zhel. dor. transp. 38 no.8: 37-41 Ag '56. (MLRA 9:10)

(Railroads--Stations)

VASIL'YEV, N. P.

Preventing the welding together of parts during the continuous hard facing of several of them simultaneously. Avtom. svar. 15 no.11:77-78 N '62. (MIRA 15:10)

1. Tashkentskiy institut inzhenerov zheleznodorozhnogo transporta.

(Hard facing)

VASIL'YEV, Nikolay Pavlovich;LEVITSKIY, Vladimir Nikolayevich; TYUMENEVA, S.T., inzh., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Special purpose indicating gauges and devices] Spetsial'nyi indukatornyi izmeritel'nyi instrument i prisposobleniia; iz opyta raboty izmeritel'noi laboratorii zavoda "Vulkan." Leningrad, 1962. 12 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Kontrol' kachestva produktsii, no.2) (MIRA 15:3)

(Gauges)

VASIL'YEV, N. F., Cand Tech Sci -- (diss) "Automatic [illegible] -bility of cuttings [illegible] synthetic [illegible] steel," [illegible],

1960, 20 pp (Central Asian Polytechnical Institute)

(KL, 40-60, 122)

98-58-3-12/22

AUTHOR: Vasil'yev, N.P., Engineer; Verigin, N.N., Professor, Doctor of Technical Sciences

TITLE: On Dams in Rivers With a Highly Porous Alluvium (O peremychkakh na rekakh s sil'no pronitsayemym allyuviyem)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 3, pp 45 - 46 (USSR)

ABSTRACT: Certain Siberian river beds, such as those of the Angara and Yenisey, have highly penetrable gravel and pebble deposits with a filtration coefficient of 500 m per 24 hours. This affluence of water in the river bed foundation pits needs to be curbed. There are two types of dams designed to serve this purpose:
1) a crib-work dam with a sandy loam bank extended toward the upper water, which is preceded by a spillway facing made from the same material (2 to 3 m thick). To prevent this structure from being washed away it is backed by a crib or a stone prism, on the upper end of which a plank piling wall is erected.
2) an earth dam made from sandy loam which is supported by a stone prism with two layers of reverse filter; in front of the dam is the same spillway facing made of the same material as in the former type. The authors of this article have worked out a method and formula for determining the affluence of water to

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the foundation pit. This method is also applicable to the calculation of filtration through earth dams. Table 1 shows the influence of the width of river bed alluvium and the length of the spillway facing on the affluence of water in the foundation pit passing underneath the dam. It follows that the construction of a spillway is advisable only in the case of river beds with important alluvial deposits. Table 2 shows the influence of the width of alluvial deposits, and also the length of the plank pile wall, on the filtration passing underneath the dam. It shows also that the construction of a plank pile wall is practical only in the event of considerable accumulation of alluvial deposits. There is 1 figure and 2 tables.

Card 2/2 1. Dams-Applications 2. Dams-Design 3. Rivers-Erosion control

VASIL'YEV, N.P., inzh.; VERIGIN, N.N., doktor tekhn.nauk, prof.

Building cofferdams on rivers having highly permeable alluvium. Gidr. stroi. 27 no.3:45-46 Mr '58. (MIRA 11:4)
(Cofferdams) (Soil percolation)

1. PLESHKOV S. V., VASIL'YEV, M. P.

2. USSR (600)

4. Ducks

7. Duck-raising section on the "Novaia Zhizn'" Collective Farm. Ptitsevodstvo no. 7, 1952.

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

USHAKOV, S.S., doktor tekhn.nauk; VASIL'YEV, N.P., inzh.; MULYUKIN, F.P., inzh.; SAVEL'YEV, A.V., inzh.

"Prospecting, design and planning of railroads" by A.V.Gorinov. Reviewed by S.S.Ushakov and others. Zhel.dor.transp. 44 no.3:93-94 Mr '62. (MIRA 15:3)

(Railroad engineering)
(Gorinov,A.V.)

CHERNYSHEV, P.G.; VASIL'YEV, N.P., inzhener, redaktor; YUDZON, D.M., tekhnicheskiy redaktor.

[Handbook on estimating in railroad construction] Rukovodstvo po sostavleniiu smet na zheleznodorozhnoe stroitel'stvo. 3-e perer. izd. Moskva, Gos. transport. zheleznodorozh. izd-vo, 1952. 231 p. [Microfilm] (MLRA 7:11)

(Railroads--Economics of construction)

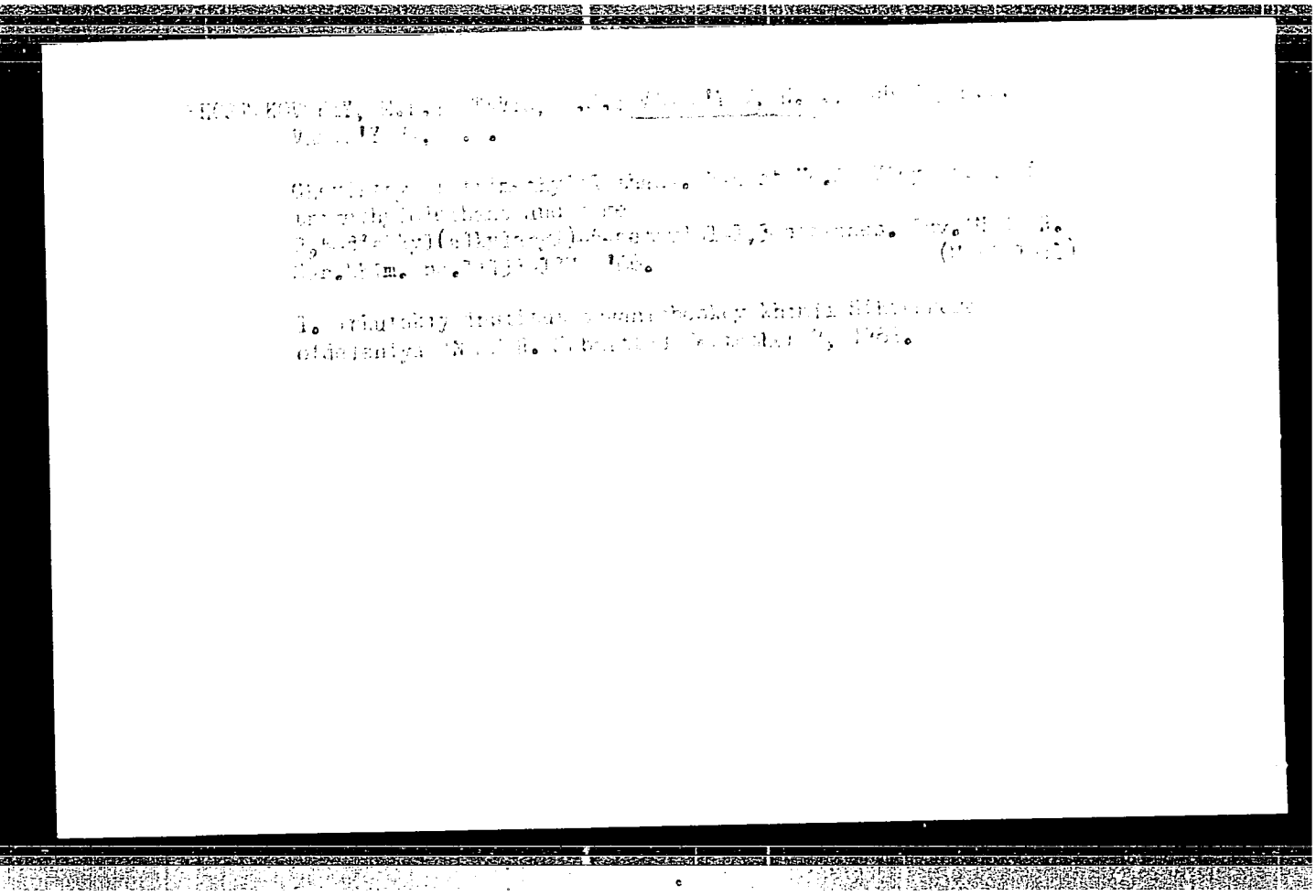
VASILIYEV, Nikolay Pavlovich; IGNINA, O.A., nauchnyy red.; KOBRINSKAYA, M.V., red.; BARANOVA, N.N., tekhn. red.

[Laboratornye raboty po elektromaterialovedeniiu. Moskva, Proftekhizdat, 1963. 53 p. (MIRA 16:8)
(Electric engineering--Materials)

VASIL'YEV, N.P.

Planning vertical variations in laying out the route of main pipelines. Stroi. truboprov. 8 no.6:10-12 Je '63. (MIRA 16:7)

1. Rukovoditel' gruppy Gosudarstvennogo instituta po proyektirovaniyu magistral'nykh truboprovodov.
(Pipelines--Design and construction)



VASIL'YEV, N. S., ENG.

Steam Boilers

Complete automatization of the boiler room of an electric power plant. Rab. energ. 2, no. 6, 1952.

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

231T44

VASIL'YEV, N. S.

USSR/Engineering - Heat, Steam Turbines Jun 52

"Measures Against Deposition of Salts on Steam Turbine Blades," N. S. Vasil'yev, Engr of GRES of Mosenergo, M. D. Panasenko, Cand Tech Sci, Boiler Lab, VTI

"Iz v-s Teplotekh Inst" No 6, pp 8-12

Discusses measures worked out by personnel of GRES jointly with science research organizations for improving quality of steam. States that decrease in intensity of salt deposition in turbines was achieved mainly by lowering salt content and alkalinity of boiler feed water, and also by stage evapn and certain exptl devices, one of which, new steam separator designed at VTI, is described.

231T44

231T44

VASIL'YEV, N.S. Eng.

Hydroelectric Power Stations

The collective of the Kashira Hydroelectric Power Station in the struggle for higher technological and economic indexes. Elek. sta. 23, no. 6, 1952.

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

1. VASIL'YEV, N.S.

2. USSR (600)

4. Furnaces

7. Most effective quantity of air supplies to a boiler furnace, Kab.energ. 3 no. 3, 1953.

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

VASIL'YEV, N.S.; KASIMOV, V.I.; KALININ, G.A.; KUVAKIN, V.P.; MEDVEDEV, A.P.; FAYVILEVICH. Ya.A.; KHRIPUNOV, V.P.; YERMAKOV, D.A., redaktor; MEMOV, A.P., redaktor; OSTROVSKIY, Ya.M., redaktor; REL'SKAYA, D.D., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

[Experience in operating the Kashira Hydroelectric Power Station] Opyt ekspluatatsii Kashirskoi GRES. Moskva, Gos. energ. izd-vo, 1956. 179 p. (MIRA 9:9)
(Kashira Hydroelectric Power Station)

MIKHAYLOV, N.M., doktor tekhn.nauk.; VASIL'YEV, N.S., inzh.;
KASIMOV, V.I., inzh.

Separating coal fines before crushing. Energetik 5 no.9:6-8 S '57.
(Coal, Pulverized)

KAGANOVICH, S.A., kand. tekhn. nauk; VASIL'YEV, N.S., inzh.

Testing of the operation of a nonventilated ball mill grinding Nazarovo coal. Elek sta. 35 no.10:21-23 O'64. (MIRA 17:12)

VASIL'YEV, N.S., inzh.

Progressive production standards in electric power plants. Elek.sta. 29 no.6:44-46 Je '58. (MIRA 11:9)
(Electric power plants--Production standards)

NIKITIN, Valentin Ivanovich, shofer 2-y avtobazy Glavnogo upravleniya gruzovogo avtotransporta Mosgorispolkoma; VASIL'YEV, N.S., redaktor; GALAKTIONOVA, Ye.N., tekhnicheskiy redaktor.

[Increasing efficiency of the ZIS-150 automobile]Za povyshenie proizvoditel'nosti avtomobilia ZIS-150. Moskva, Nauchno-tekhn.izd-vo avtotransp.;it-ry 1955. 54 p. (Opyt novatorov avtotransporta) (MLRA 9:4)
(Motor trucks)

KISELEV, P.I., kand. tekhn. nauk; KAGANOVICH, S.A., kand. tekhn. nauk; VASIL'YEV, N.S., inzh.; PETELIN, A.A., inzh.

Testing of an unventilated ball mill. Elek. sta. 32 no.1:3-8 Ja '61. (MIRA 16:7)
(Milling machinery—Testing)
(Electric power plants—Equipment and supplies)

VASIL'YEV, N.S.

YEVDAKOV, Aleksandr Aleksandrovich; VOYTEKO, Stanislav Pavlovich; VASIL'YEV, N.S., redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor

[Master bus driving; work experience of leading drivers of the 1st Leningrad bus depot] Masterstvo vozhdeniia avtobusov; iz opyta raboty peredovykh shoferov 1-go avtobusnogo parka Leningrada. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 49 p. (MLRA 10:4)
(Motorbus drivers)

KLEMANOV, Yuliy Abramovich; VASIL'YEV, N.S., redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor

[Efficiency experts in the Leningrad automobile repairing plant] Ratsionalizatory Leningradskogo avtoremontnogo zavoda. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 70 p. (MLRA 9:8)
(Automobiles--Repairing)

ZELENCHUK, Yevgeniy Vasil'yevich; KISHCHINSKIY, Sergey Semenovich; KOROGODSKIY, Miron Vladimirovich; VASIL'YEV, M.S., redaktor; KOGAN, F.L., tekhnicheskiy redaktor

[Operations of truck columns far from regular bases; experience of leading automotive units of the Ministry of Automotive Transport and Highways of the Ukrainian S.S.R.] Rabota avtomobil'nykh kolonn v otryve ot postoiannykh baz; iz opyta peredovykh avtokhoziaistv Ministerstva avtomobil'nogo transporta i shosseinykh dorog USSR. Izd. 2-oe, perer. i dop. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 83 p. (MLRA 9:10)
(Transportation, Automotive)

VASIL'YEV, N.S.

CHERNYAYKIN, Vladimir Aleksandrovich; VASIL'YEV, N.S., red.; GALAKTIONOVA, Ye.N., tekhn.red.

[Fulfilling the five-year plan in three years; the experience of chauffeur I.V.Bobrov at the no.1 automobile base of the Main Administration of Motorized Freight Transportation] Piatiletku - za 3 s polovinoi goda; iz opyta shofera 1-i avtobazy Glavmosavtotransa I.V.Bobrova. Moskva, Nauchno-tekhnlizd-vo avtotransp. lit-ry, 1957. 23 p. (MIRA 10:12)

(Motortrucks)

UNSIGNED.

VASIL'YEV, N.S., otvetstvennyy za vypusk; KOGAN, F.L., tekhn.red.

[The 1958 plan of publications of the Science and Technology Publishing House on automotive transportation] Tematicheskii plan izdanii Nauchno-tekhnicheskogo izdatel'stva avtotransportnoi literatury na 1958 g. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1957. 15 p. (MIRA 11:2)

1. Russia (1917- R.S.F.S.R.) Ministerstvo avtomobil'nogo transporta i shosseynykh dorog.
(Bibliography--Transportation, Automotive)

CHERNYAYKIN, Vladimir Aleksandrovich; VASIL'YEV, N.S., red.; GALAKTIONOVA, Ye.N., tekhn.red.

[For centralized transportation of bricks; the experience of truck-driver I.S.Fedotov at the no.1 truck base of the Main Administration of Motorized Freight Transportation] Na tsentralizovannykh perevozkakh kirpicha; iz opyta shofera 1-i avtobazy Glavmosavtotransa I.S.Fedotova. Moskva, Nauchno-tekhn.izd-vo avtotransp.lit-ry, 1957. 25 p. (MIRA 10:12)

(Bricks--Transportation) (Motor trucks)

VASIL'EV, N. T., Lect.

"Treatment of pharynx, larynx and nose by spraying with powdered medicinal agents."

SO: Vet. 27 (4) 1950, p. 42

VASIL'YEV, N. T.

"Gastritis in Black-Silver Foxes (Medical Treatment and Prophylaxis)." Sub 23 Apr 51, Moscow Fur and Pelt Inst

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

1. VASIL'YEV, N. T.
2. USSR (600)
4. Stomach--Diseases
7. Gastritis in silver fox, Kar. i zver., 5, No. 6, 1952.

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

VASIL'YEV, N. T.

Gastrity i gastroenterity serebristochernykh lisits [Gastritis and gastroenteritis in the silver fox]. Moskva, Sel'khozgiz, 195 . 120 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 11 February 1954

YEVGRAFOV, Aleksey Romanovich, 1867-1953, professor doktor veterinarnykh nauk; VASIL'YEV, N.T., professor, redaktor; BORISOVICH, F.K., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Internal noninfectious diseases of farm animals] Vnutrennie nezaraznye bolezni sel'skokhoziaistvennykh zhivotnykh. Pod obshchei red N.T. Vasil'eva. Moskva, Ges.izd-vo sel'khoz.lit-ry, 1956. 511 p. (MLRA 9:5)
(VETERINARY MEDICINE)

VASIL'YEV, N.

Crimea Province veterinary polyclinic. Veterinariia 32 no.5: 12-15 My '55. (MLRA 8:7)
(SIMFEROPOL--VETERINARY HOSPITALS)

VASIL'YEV, N.

Veterinary services in a leading district. Veterinary services in a leading district. Veterinariia 34 no.5:13-17 My '57. (MLRA 10:6)
(Vinnitsa District--Veterinary medicine)

VASIL'YEV, N.T., prof.

Leucosis in cattle. Veterinariia 37 no.12:19-24 D '60.
(MIRA 15:4)

1. Novocherkasskiy zooveterinarnyy institut.
(Cattle—Diseases and pests) (Leucosis)

VASIL'YEV, N. T. Professor, Novocherkassk Zooveterinary Institute.

"Leukosis of cattle," Veterinariya, Vol. 37, No. 12, p. 19, 1960.

KARAVAYEV, V.M.; ARKHIPOV, V.V.; AL'MEYEV, Kh.Sh., prof.; RATNER, I.M., veter. vrach; VASIL'YEV, N.T., prof.; ORLOV, F.M.

Reviews. Veterinariia 41 no.10:113-117 O '64.
(MIRA 18:11)

TARAN, I. F.; YELKIN, Yu. M.; VASIL'YEV, N. V.

Comparative study of the intensity of immunity to brucellosis in relation to the dose, method and rate of administration of live vaccines in experiments on guinea pigs. Zhur. mikrobiol., epid. i immun. 32 no.8:96-101 Ag '61. (MIRA 15:7)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza i Zakavkaz'ya.

(BRUCELLOSIS)

VASIL'YEV, N.V.

Use of the serogram method in the psychiatric linic. Trudy Gos. nauch.-issl.inst.psikh. 27:169-171 '61. (MIRA 15:10)

1. Tomskiy meditsinskiy institut. Dir. - prof. I.V.Toroptsev. Kafedra psikhiatrii. Zav. - prof. A.A.Perel'man [deceased] Kafedra mikrobiologii. Zav. - prof. S.P.Karpov. Tomskaya psikhonevrologicheskaya bol'nitsa. Glavnyy vrach - Z.L.Cheredova.
(SERUM DIAGNOSIS) (PSYCHIATRY)

BABAR'YAN, G.G.; TYUTIN, V.A.; CHEREMUSHKIN, S.D.; ZUZIK, D.T.; KHODASEVICH, B.G.; FRAYER, S.V.; GUSAKOV, Ye.I.; KAZANSKIY, A.M.; KASSIROV, L.N.; KARAYEV, S.A.; ABRAMOV, V.A.; VASIL'YEV, N.V.; BUGAYEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN, A.A.; RUDNIKOV, V.N.; YAKOVLEV, V.A.; PEREMYKIN, V.I.; ISAYEV, A.P.; KUZ'MICHEV, N.N.; IL'IN, S.A.; PRONIN, V.A.; LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'-khoz. nauk; KOGAN, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.; GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.R.; ERODSKAYA, M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Economics of agriculture]Ekonomika sotsialisticheskogo sel'-skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962. 710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

VASIL'YEV, N.V.

Serogram as a means of determining the humoral link in nonspecific immunity. Trudy TomNIIVS 14:274-277 '63. (MIRA 17:7)

1. Kafedra mikrobiologii Tomskogo meditsinskogo instituta.

VASIL'YEV, N.V.; SHTERNBERG, I.B.; TRUKHACHEV, G.A.

Some lysozymes of animal origin. Trudy Tomsk IVS 14:279-283 '63. (MIRA 17:7)

1. Kafedra mikrobiologii Tomskogo meditsinskogo instituta.

VASIL'YEV, Nikolay Vasil'yevich; LEPNIKOVA, Ye.F., red.; KOKOSHKINA, I.K., mlad. red.

[Specialization and zoning of farming in the U.S.S.R.] Spetsializatsiia i razmeshchenie sel'skokhoziaistvennogo proizvodstva v SSSR. Moskva, Mysl', 1965. 452 p. (MIRA 18:6)

VASIL'EV, N. V.

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DLC: TN331.V37

Transport na obogatitel'nykh fabrikakh. [Transport in ore-dressing industry]. Dopushcheno v kachestve ucheb. posobiia dlia gornykh vuzov. Moskva, Ugletekhizdat, 1949. 279 p. illus.
Bibliography: p. [278]

DLC: TN535.V3

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified

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Transport na Obogatitelnih Fabrikah (Transport in Enrichening Factories), Moscow-Leningrad, 1949.

VASIL'EV, N. V.

Water cooling of rotary kilns at the "Gigant" works. M. F. Yurov and N. V. Vasil'ev. Tsement 17, No. 6, 6-7 (1951).- A description of air-cooling, spray-cooling, and water-jacket-cooling of rotary kilns.

M. H.

VASIL'YEV, N.V.; LADYGIN, A.M., otvetstvennyy redaktor; DUL'NEV, V.P., tekhnicheskiy redaktor

[Underground transportation equipment and loading machines] Podzemnye transportnye ustanovki i pogruzochnye mashiny. Moskva, Ugletekhizdat, 1952. 459 p. (MLRA 9:8)
(Mine haulage)

VASIL'YEV, M. V., CHERNOKOV, S. S. (Eng.)

Pipelines

Construction of pipelines and sewers by pressure tunneling. Gor. khoz. Mosk. 26 No. 8, 1952.

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

VASIL'YEV, M.V.; OLEVSKIY, V.A.; YEVNEVICH, A.V., redaktor; ROMANOVA, L.A., redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor

[Conveying installations and storage in ore dressing plants] Transportnye ustroistva i skladskoe khoziaistvo obogatitel'nykh fabrik. 2-e izd., ispr. i dop. Moskva, Ugletekhizdat, 1954. 339 p. [Microfilm] (MLRA 8:4)

(Mine haulage) (Ore dressing)

VASIL'YEV, N.V., kandidat tekhnicheskikh nauk.

Practical pipe laying by pressure methods. Gor.khoz.Mosk. 28 no.10:29-32 O '54. (MLRA 7:11)
(Water pipes)

BARSUKOV, A.A.; VASIL'YEV, N.V.; ZAYCHENKO, I.Z.; KAMENETSKIY, G.I., MAZYRIN, I.V.; MODEL', B.I., tekhnicheskiy redaktor

[General reference data on hydraulic equipment used in modernizing machine tools] Obshchie spravochnye dannye po gidrooborudovaniiu, ispol'zuemomu pri modernizatsii metallorezhushchikh stankov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 151 p. (MLRA 10:3)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

(Hydraulic machinery) (Machine tools)

Conveying in ore-dressing plants Moskva, Ugletekhizdat, 1949 279 p. (50-29895)

TN535.V3

VASILEV, N. V.

The organization of transportation and storage in ore-dressing plants; textbook for schools of mining engineering 2. izd. ispr. i dop. Moskva, Ugletekhizdat, 1954. 339 p. (55-41112)

TN535.V3 1954

BENDERSKIY, L.S.; BYSTROV, A.M.; VASIL'YEV, N.V.; GORELIKOV, V.D.; DANILOV, V.N.; DIVINSKIY, Yu.L.; YERMOLAYEV, V.A.; KOSYAKOV, V.M.; FEDOROV, V.V.

Producing quality casting of magnesium alloys by means of liquid metal filtration. Lit. proizv. no.11:37-39 N '64. (MIRA 18:8)

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; VASIL'YEV, N.V.; [illegible], R.I.

Synthesis and transformations of acetals of polyvinyl alcohols. Report 6: Interaction of vinyl ethers of isoalkylidene glycerols with monohydric alcohols. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1:139-144 '65. (MIRA 18:8)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

PLEKHANOV, G.F.; KOVALEVSKIY, A.F.; ZHURAVLEV, V.K.; VASIL'YEV, N.V.

Geomagnetic effect of the burst of the Tunguska meteorite. Izv. vys.ucheb.zav.;fiz. no.2:236-237 '60. (MIRA 13:8)

1. Tomskiy gosuniversitet im. V.V.Kuybysheva i Betatronnaya laboratoriya Tomskogo Medinstituta.
(Tunguska Valley--Meteorites) (Magnetism, Terrestrial)

PLEKHANOV, G.F.; VASIL'YEV, N.V.; KOSHELEV, V.A.

Search for the Tunguska meteorite continues. Nauka i zhizn' 28 no.5:76-79 My '61. (MIRA 14:6)
(Podkamennaya Tunguska Valley—Meteorites)
(Comets)

PLEKHANOV, G.F.; KOVALEVSKIY, A.F.; ZHURAVLEV, V.K.; VASIL'YEV, N.V.

Effect of the explosion of the Tunguska meteorite on the geomagnetic field. Geol. i geofiz. no.6:94-96 '61. (MIRA 14:7)

1. Problemnaya laboratoriya radiofiziki Tomskogo universiteta; Betatronnaya laboratoriya Tomskogo meditsinskogo instituta i Nauchno-issledovatel'skiy institut Tomskogo politekhnicheskogo instituta.

(Tunguska Valley--Meteorites)
(Magnetism, Terrestrial)

39329
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A001/A101

3.9110

AUTHORS: Plekhanov, G. F., Kovalevskiy, A. F., Zhuravlev, V. K., Vasil'yev, N.V.

TITLE: On the effect of Tungusska meteorite explosion on geomagnetic field

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 81 - 82, abstract 7A585 ("Geologiya i geofizika", 1961, no. 6, 94 - 96)

TEXT: On June 30, 1908, at 0 hr 20.0 1.2 min UT, i.e., 2.8 min after the explosion, the H-component at Irkutsk rose by 23.5 γ during 1 hr 20 min, then decreased by 67 γ and restored during 2-3 hours. A negative bay of the Z-component, up to 25.5 γ deep, lasted from 0 hr 18.6±1.5 min until 2 hr. The phenomenon was nowhere more noted, according to 18 world observatories. Magnetic disturbance is similar to effects observed during air explosions of nuclear bombs on August 1 and 12, 1958, over the Johnston Island recorded at Honolulu, Palmir, etc. A sudden commencement, H-variation form, and local character are similar features. However, there is no delay at nuclear explosions, and duration of disturbances is less (1 - 1 1/2 hr). The Tungusska disturbance can be explained by a magnetohydrodynamic wave which arose due to an air shock wave in the E layer of the ionosphere and subsequent dynamo currents. I. Zotkin

[Abstracter's note: Complete translation]

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S/210/63/000/001/003/003
B032/E314

AUTHORS: Plekhanov, G.F., Vasil'yev, N.V., Demin, D.V., Zhuravlev, V.K., Zenkin, G.M., Kovalevskiy, A.F., L'vov, Yu.A., Tul'skiy, A.S. (Deceased) and Fast, V.G.

TITLE: Some results of studies of the problem of the Tungusskiy meteorite

PERIODICAL: Geologiya i geofizika, no. 1, 1963, 111 - 123

TEXT: A Composite Independent Expedition (CIE) was organized in 1959 and a number of scientific workers and engineers from institutions of Tomsk, Moscow, Novosibirsk and other towns participated in it. The aim of this expedition was to carry out a composite study of the region of the fall of the meteorite. Field work was carried out in 1960 together with a Moscow expedition directed by V.A. Koshelev. There was an expedition in the summer of 1961 organized by the Komitet po meteoritam AN SSSR (Committee for Meteorites of the AS USSR) under the direction of K.P. Florenskiy. The CIE was a part of the latter expedition. Parallel field work was carried out during 1959-1961

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Some results of ....

by the Committee for Meteorites (B.I. Vronskiy - 1959-1960 and A.V. Zolotov - 1959-1961). The present paper reviews briefly the results obtained by the CIE and compares them with those obtained by other workers. A chart is reproduced showing the marsh and woodland distribution and magnetometric profiles in the neighbourhood of the epicentre. It was found that the marshes were apparently natural formations, unaffected by the fall but there were some arboreal features indicating the effect of the fall on trees. A study was made in 1960 of the felling of trees as a result of the fall of the meteorite. Analysis of these data showed that the height at which the meteorite exploded was 10.5 ± 3.5 km. Magnetometric searches revealed the absence of major magnetic losses. Other studies revealed a region with enhanced concentration of Ni, Co and Mo in the soil and Ce, La, Y and Yb in the wood ash. This region was 2-6 km N.W. of the epicentre. A further series of measurements was concerned with the residual radioactivity in the region. Previous conclusions regarding the increase in radioactivity near the epicentre, as compared with greater distances, were not confirmed. It is suggested that the

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Some results of ....

earlier measurements revealed traces of fall-out due to American nuclear tests in 1958. Analysis of these and other published data leads the authors to suggest the following working hypothesis. In the middle of June, 1908, the Earth passed through a cosmic-dust cloud which entered the atmosphere and sedimented between 55 and 65° N. On reaching the lower layers of the atmosphere, dust particles gave rise to anomalous airglow and development of noctiluscent clouds at isolated points in Europe between June 22 and 29. The amount of dust was not, however, too great and hence the optical anomalies associated with it were localized and there was no change in the polarization of the day sky. In the morning of June 30, the Earth entered the part of the cloud containing large dust-particle clusters and the penetration of these clusters into the lower layers gave rise to a change in the polarization and the appearance of a solar halo and noctiluscent clouds. At the same time, a major meteoritic body entered the atmosphere. The resistance experienced by the body (dense swarm of particles) increased rapidly at the boundary of the troposphere with the result that the body was decelerated and the available magnetic

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Some results of ....

energy was converted into the energy of the explosion. This hypothesis is not fundamentally different from that put forward by V.G. Fesenkov (cometary hypothesis). It is suggested that the differences may be of terminological origin. This must be investigated further. There are 1 figure and 1 table.

ASSOCIATIONS: Tomskiy meditsinskiy institut (Tomsk Medical Institute)
NII Tomskogo politechnicheskogo instituta (NII of Tomsk Polytechnical Institute)
Institut geologii i geofiziki Sibirskogo otdeleniye AN SSSR (Institute of Geology and Geophysics of the Siberian Division of the AS USSR)

SUBMITTED: April 9, 1962

PLEKAHNOV, G.F.; VASIL'YEV, N.V.; ZHURAVLEV, V.K.; KOVALEVSKIY, A.F.

Polarization effect caused by the fall of the Tunguska meteorite. Izv. vys. ucheb. zav.; fiz. no.5:177-179 '63. (MIRA 16:12)

1. Nauchno-issledovatel'skiy institut pri Tomskom politekhnicheskom institute imeni S.M.Kirova, Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva i Tomskiy meditsinskiy institut.

ACCESSION NR: AR4021622 S/0269/64/000/002/0069/0069

SOURCE: RZh. Astronomiya, Abs. 2.51.511

AUTHOR: Kovalevskiy, A. F.; Vasil'yev, N. V.

TITLE: The problem of night sky luminescence in the summer of 1908

CITED SOURCE: Tr. Tomskogo otd. Geogr. o-va SSSR, Batatron. labor. Tomskogo med. in-ta, v. 5, 1963, 198-202

TOPIC TAGS: meteorological phenomenon, noctilucent cloud, night sky luminescence, meteorite, Tunguska meteorite, comet, atmospheric contamination, volcanic eruption, meteorology

TRANSLATION: Extensive meteorological data concerning anomalous optical phenomena in the atmosphere on 30 June-1 July 1908 are discussed. These phenomena can be divided into three groups: noctilucent clouds, varicolored sunsets and sunrises and night sky luminescence. The intensification of these phenomena during the mentioned period usually is associated with the falling of the Tunguska meteorite

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ACCESSION NR: AR4021622

and the scattering of meteor matter into the atmosphere or with the entry into the atmosphere of the tail of a small comet whose head was the Tunguska meteorite. However, numerous observations at different places in the world indicate that the first two groups of phenomena were present prior to 30 June and merely attained culmination on that day and therefore could not be a result of falling of the meteorite. With respect to the third group of phenomena, they were not observed prior to 30 June. It is an unusual circumstance that the mentioned anomalous phenomena disappeared suddenly several days after 30 June. These phenomena possibly were caused by a number of other factors, such as contamination of the earth's atmosphere by volcanic dust as a result of Aleutian volcanic eruptions late in 1907. However, the coincidence of the maximum of activity of the optical phenomena and the falling of the Tunguska meteorite cannot be considered random. All the phenomena mentioned apparently have a common cause. Bibliography of 43 titles. L. Fishkova.

DATE ACQ: 09Mar64 SUB CODE: AS ENCL: 00

Card 2/2

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ACC NR: AR5015447 UR/0169/65/000/006/A019/A019

551.593.653

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B

SOURCE: Ref. zh. Geofizika, Abs. 6A101

AUTHOR: Vasil'yev, N.V.; Zhuravlev, V.K.; Zazdravnykh, N.P.; Prikhod'ko, T.V.; Demin, D.V.; Demina, L.N.

TITLE: Connection between noctilucent clouds and some parameters of the ionosphere

CITED SOURCE: Dokl. 3-y Sibirsk. konferentsii po matem. i mekhan., 1964, Tomsk. Tomskiy un-t, 1964, 302-303

TOPIC TAGS: ionosphere, ~~cloud formation~~, cloud level, atmospheric cloud

TRANSLATION: In Tomsk, during the summer of 1963, noctilucent clouds were observed eleven times. A comparison with the state of the ionosphere showed that, as a rule, these clouds were accompanied by a lowering of the average altitude of the sporadic stratum E.

SUB CODE: 04/ ~~ENCL: 00~~

SUBM DATE: NONE

Card 1/1 vmb

VASIL'YEV, N.V.; MALYSHEV, M.S.; SEGAL', M.I.

Small size stationary jib cantilever crane. Rats. predl. na gor. elektrotransp. no.9:20-22 '64. (MIRA 18:2)

1. Vagonoremontnyy zavod Tramvayno-trolleybusnogo upravleniya Leningrada.

VASIL'YEV, N.V.

Some results of the study of humoral antimicrobic factors in the human organism and in animals. Trudy Tom NIIVS 12:190-194 '60. (MIRA 16:11)

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

VASIL'YEV, N.V.; DIVINSKIY, Yu.L.; KNAKHOVSKIY, A.A.; FADEYEV, N.P.

Overall mechanized unit for the production of flux. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform 17 no.11:31-32 N '64. (MIRA 18:3)

VASIL'YEV, N.V., kand. tekhn. nauk

Rock pressure on a round imbedded support. Trudy TSNIIPodzem-shakhtstroia no.1:216-226 '62. (MIRA 16:8)

(Rock pressure) (Mine timbering)

VASIL'YEV, Nikolay Vladimirovich, kand. tekhn. nauk; NOVIKOVA, M.M., ved. red.

[Sealed pipe laying for pipelines] Zakrytaia prokladka trub provodov. Moskva, Nedra, 1964. 213 p. (MIRA 17:8)

VASIL'YEV, Nikolay Vasil'yevich, dots., kand. tekhn. nauk; STREL'NIKOV, L.P., kand. tekhn.nauk, retsenzent; RYKOV, N.A., otv. red.

[Intrafactory transportation and storage facilities in ore-dressing plants] Vnutrifabrichnyi transport i skladskoe khoziaistvo obogatitel'nykh fabrik. Izd.2., perer. i dop. Moskva, Gosgortekhizdat, 1963. 339 p. (MIRA 16:12)
(Ore dressing--Equipment and supplies) (Ore handling)

YEVNEVICH, Anton Vladislavovich; DAVYDOV, B.L., prof., retsenzent; SOLOV'YEV, A.A., prof., retsenzent; SHTOKMAN, I.G., prof., retsenzent; VASIL'YEV, N.V., dots., otv. red.; KOVAL', I.V., red.izd-va; [redacted], tekhn. red.; MAKSIMOVA, V.V., tekhn. red.

[Machines formine haulage] Gornye transportnye mashiny. Izd.2. Moskva, Gosgortekhizdat, 1963. 467 p. (MIRA 16:9)

1. Khar'kovskiy gornyy institut (for Davydov, Solov'yev)
2. Donetskiy politekhnicheskiy institut (for Shtokman).
(Mine haulage)

VASIL'YEV, N.V.

Antimicrobical properties of normal human and animal sera; report no.4. Trudy TomNIIVS 11:172-176 '60. (MIRA 16:2)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok i kafedra mikrobiologii Tomskogo meditsinskogo instituta.
(SERUM)

VASIL'YEV, N.V.

Thermal stability of normal antibodies; report no.1. Trudy TomNIIVS 11:177-180 '60. (MIRA 16:2)

1. Kafedra mikrobiologii Tomskogo meditsinskogo instituta.
(ANTIGENS AND ANTIBODIES—ANALYSIS)

VASIL'YEV, N.V.; TROFIMOV, L.G.

Correlations of bioelectrical potentials of internal organs and some factors of humoral natural immunity in dogs. Trudy TomNIIVS 11:181-185 '60. (MIRA 16:2)

1. Kafedra mikrobiologii Tomskogo meditsinskogo instituta i kafedra fiziologii zhivotnykh Tomskogo universiteta.
(ELECTROPHYSIOLOGY) (IMMUNOCHEMISTRY)

VASIL'YEV, N.V.

Platforms for starting and receiving the scraper. Stroi. truboprov. 8 no.3:10-11 Mr '63. (MIRA 16:5)

1. Rukovoditel' gruppy Gosudarstvennogo instituta po proyektirovaniyu magistral'nykh truboprovodov.
(Petroleum--Pipelines)

VASIL'YEV, Nikolay Vasil'yevich; BAD'IN, I.S.; VORONTSOVA, Z.Z., tekhn. red.

[Varzi-Yatchi Health Resort]Kurort Varzi-Iatchi; ocherk. Izhevsk, Udmurtskoe knizhnoe izd-vo, 1962. 41 p. (MIRA 15:12)
(VARZI-YATCHI--HEALTH RESORTS, WATERING-PLACES, ETC.)

VASIL'YEV, N.V.

SPIVAKOVSKIY, A.O., professor, doktor tekhnicheskikh nauk; VASIL'YEV, N.V. kandidat tekhnicheskikh nauk, redaktor; KHEYFITS, S.Ya., redaktor; BOLDYREVA, Z.A., tekhnicheskiy redaktor

[Mine transportation] Rudnichnyi transport. Moskva, Ugletekhizdat, 1949. 475 p. [Microfilm] (MLRA 8:9)

1. Chlen-korrespondent Akademii nauk SSSR(for Spivakovskiy)

(Mine haulage)

LEVI, M.I.; CHEKOMASOVA, A.V.; VASIL'YEV, N.V.

Study of the possibility of increasing the viability and immunogenicity of living avirulent plague vaccine. Zhur.mikrobiol.epid. i immun. 31 no.8:105-111 Ag '60. (MIRA 14:6)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza i Zakavkaz'ya, Stavropol'.
(PLAGUE)

ARKHANGEL'SKIY, A.S., kand. tekhn. nauk; VASIL'YEV, N.V., kand. tekhn. nauk; GORDIYENKO, B.I., inzh.; SAMOYLOV, V.P., kand. tekhn.nauk; TERENETSKIY, L.N., inzh. Prinimali uchastiye: DEMESHKO, Ye.A., inzh.; KUBENEV, Kh.K., kand. tekhn. nauk; SMORODINOV, M.I., kand. tekhn. nauk; KHRAPOV, V.G., kand. tekhn. nauk; NIKOL'SKIY, I.S., inzh.; KATKOV, G.A., inzh.; VORONTSOVA, N.D., starshiy laborant; BLAGOSLAVOV, Yu.B., kand. tekhn. nauk, nauchnyy red.; SMIRNOVA, A.P., red. izd-va; IGNAT'YEV, V.A., tekhn. red.

[Underground mining in loose rocks] Prokhodka podzemnykh vyrabotok v sypuchikh porodakh. Pod obshchei red. A.S.Arkhagel'skogo. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 205 p. (MIRA 14:11)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut osnovaniy i podzemnykh sooruzheniy. 2. Sotrudniki Laboratorii metodov vozvedeniya podzemnykh sooruzheniy Nauchno-issledovatel'skogo instituta osnovaniy Akademii stroitel'stva i arkhitektury SSSR (for all except Blagoslavov, Smirnova, Ignat'yev).
(Mining engineering)

L'VOV, Yu.A.; VASIL'YEV, N.V.; OSHAROV, A.B.; TRUKHACHEV, G.A.; YEROSHKINA, A.I.

Testing a hypothesis. Priroda 50 no.7:98-99 Jl '61. (MIRA 14:6)

1. Tomskiy gosudarstvennyy universitet (for L'vov, Osharov, Yeroshkina). 2. Betatronnaya laboratoriya Tomskogo meditsinskogo instituta (for Vasil'yev, Trukhachev).
(Ket' Valley—Tornadoes)

FEYGIN, Ya.G., doktor ekon.nauk; VILENSKIY, M.A., kand.ekon.nauk; OMAROVSKIY, A.G., kand.ekon.nauk; LIVSHITS, R.S., doktor ekon.nauk; CHUGUNOV, B.I., kand.ekon.nauk; SHOKIN, N.A., kand.ekon.nauk; IOFFE, Ya.A.; VARANKIN, V.V., kand.ekon.nauk; ROZENFEL'D, Sh.L., kand.ekon.nauk; KORNEYEV, A.M., doktor ekon.nauk; OPATSKIY, L.V., doktor ekon.nauk; VASIL'YEV, N.V., doktor ekon.nauk; RUDENKO, N.A., kand.ekon.nauk; BYSTROZOROV, A.S., kand.geogr.nauk; POPOVA, Ye.I., kand.ekon.nauk; KRUTIKOV, I.P., kand.geogr.nauk; BAKOVETSKAYA, V.S., red.izd-va; SHEVCHENKO, G.N., tekhn.red.

[Special features and factors in the distribution of branches of the national economy of the U.S.S.R.] Osobennosti i faktory razmeshcheniia otraslei narodnogo khoziaistva SSSR. Moskva, 1960. 692 p. (MIRA 14:3)

1. Akademiya nauk SSSR. Institut ekonomiki.
(Economic zoning)

RODNOV, V.I.; MARTYNOV, B.P.; VASIL'YEV, N.V.; NIKOLAYENKO, B.Z.; GUROV, Ye.P.; VOLCHKOV, Ye.P.; NICHKOV, V.N.; MARKELOV, I.A.; GUBANOV, M.V.

What does you association offer for the 43d anniversary of the Great October? Chiefs of all-union associations speak. Vnesh. torg. 30 no.10:28-33 '60. (MIRA 13:10)

1. Predsedatel' Vsesoyuznogo ob"yedineniya "Mashinoeksport" (for Rodnov). 2. Predsedatel' Vsesoyuznogo ob"yedineniya "Mashonoimport" (for Martynov). 3. Predsedatel' Vsesoyuznoye ob"yedineniye "Mashpriborintorg" (for Vasil'yev). 4. Predsedatel' Vsesoyuznogo ob"dineniya "Tekhnopromimport" (for Gubanov). 5. Ispolnyayushchiy obyasannosti predsedatelya Vsesoyuznogo ob"yedineniya "Soyuzpromeksport" (for Nikolayeko). 6. Predsedatel' Vsesoyuznogo ob"yedineniya "Soyuznefteeksport" (for Gurov).. 7. Predsedatel' Vsesoyuznogo obyedineniya "Promsyr'yeimport" (for Volchkov). 8. Predsedatel' Vsesoyuznogo ob"yedineniya "Eksportles" (for Nichkov). 9. Predsedatel' Vsesoyuznogo ob"yedineniya "Raznoeksport" (for Markelov).
(Russia--Commerce)

VASIL'YEV, N.V., kand.tekhn.nauk

Constructing tunnels without using the open-trench method.
Mont. i spets. rab. v stroi. 23 no. 1:25-29 Ja '61.
(MIRA 14:1)

(United States--Tunneling) (United States--Sewers, Concrete)

FEYGIN, Ya.g., prof., otv. red.; VASIL'YEV, N.V., doktor ekonom. nauk, red.; MOSKVIN, D.D., kand. ekonom. nauk, red.; SHOKIN, N.A., kand. ekonom. nauk, red.; KOMAROV, Ye.I., red.; GERASIMOVA, Ye.S., tekhn. red.

[Problems of the distribution of productive forces durign the period of the large-scale building of communism] Problemy razmeshcheniia proizvoditel'nykh sil v period razvernutogo stroitel'stva kommunizma. Moskva, Gosplanizdat, 1960. 335 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Institut ekonomiki AN SSSR (for Feygin, Vasil'yev, Moskvin, Shokin)
(Russia--Economic policy)

S/121/60/000/007/002/011

AUTHORS: Zaychenko, I.Z., Vasil'yev, N.V.

TITLE: Investigations and Calculations of New Throttle Designs

PERIODICAL: Stanki i Instrument, 1960, No. 7, pp. 10-13

TEXT: The authors investigate and describe various models of new throttles developed by ENIMS and manufactured in series by specialized plants. Pressure fluid discharge through the throttle can be expressed by the equation: $Q = Kf\Delta p^m$, where Q = discharge in cm^3/sec, Δp = pressure drop of the throttle in kg/cm^2, f = slot area of the throttle in cm^2, m = power exponent, k = coefficient depending on the properties of the fluid. Variations of the discharge, depending on a pressure drop in the analyzed throttles, are taking place according to a parabola with the power exponent m = 0.5. Such a discharge-to-pressure-drop relation corresponds to the law of fluid discharge through a diapnragm. The fluid discharge through the throttle in the range of 15-50°C depends only to a very small extent on the temperature. Therefore it is not necessary to provide any devices for the compensation of changes in the viscosity of the fluid, since the passage over which the friction of particles of the pressure fluid takes place has been reduced to a minimum. The values of the coefficient K, established by experiments, make it possible to determine by calculation, for every given magnitude of cross-section

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Investigations and Calculations of New Throttle Designs

of the throttling slot, the discharge magnitude as a function of the pressure drop. For the investigated throttle types it has been established that the cross-section area of the slot corresponds to the graduation on the throttle scale, which makes it possible to determine the discharge magnitude as a function of the throttle adjustment. In order to facilitate and accelerate the calculations, it is advisable to represent the discharge as a function of pressure drop and throttle adjustment in a graphical way in the form of a nomogram. Investigations of the energy indices of the ⌜77-1 (G77-1) and ⌜77-3 (G77-3) throttle models (the throttles were fitted at the input of pressure fluid into the hydraulic engine) made it possible to find out that the maximum effective power at the output of the pressure fluid from the throttle occurs at a pressure of 2/3 of the pressure magnitude at the throttle input. If the pressure drop and, consequently, the discharge through the throttle are reduced, the throttle efficiency increases. There are 3 diagrams, 3 graphs, 2 tables, 1 nomogram and 2 Soviet references.

Card 2/2

POLYAKOV, Nikolay Sergeyevich, prof.; SHTOKMAN, Il'ya Grigor'yevich, prof.; KOMAROVA, Yevgeniya Kuz'minichna, dotsent; SPIVAKOVSKIY, A.O., prof., retsenzent; ANDREYEV, A.V., dotsent, retsenzent; VASIL'YEV, N.V., dotsent, retsenzent; YEVNEVICH, A.V., dotsent, retsenzent; LOPATIN, S.I., dotsent, retsenzent; SOLOD, G.I., dotsent, retsenzent; SHAKHMEYSTER, L.G., dotsent, retsenzent; SHORIN, V.G., dotsent, retsenzent; SAMOYLYUK, N.D., inzh., retsenzent; KOLOMIYTSEV, A.D., otv.red.; SHKLYAR, S.Ya., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Problems and exercises on mine haulage] Sbornik zadach i uprazhnenii po rudnichnomu transportu. Izd.2., dop. i perer. Moskva, Ugletekhizdat, 1959. 256 p. (MIRA 13:4)

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