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CA

9

Mn-Cr tool steel. B. S. Shvyrev, A. A. Makhov, B. K. Yablokov, M. A. Kogan, M. A. Yampel'skii and N. Z. Nemets. Russ. 58,811, Jan. 31, 1941. The steel contains C 1.7–2.2, Mn 8–12, Cr 6–10, Si up to 2 and Ti 0.7–1.5%.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

[illegible] and [illegible], F. [illegible],
Engineers.

"Solder for Welding Blades to Cutters Made of Low-Alloy High-Speed Steel", Stanki I Instrument, 14, No. 3, 1943.

SR-52059019.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SAVVAEV, V. A.

"Investigation of the Operation of Saw Chains in Motor-Driven Saws." Thesis for degree of Cand. Technical Sci. Sub 1 July 49, Moscow Forestry Engineering Inst.

Summary 02, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

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SHVYREV, F.A.

Increasing the wear resistance of wood-cutting tools. Der.prom. 11 no.5:8-9 My '62. (MIRA 15:5)

1. Moskovskiy lesotekhnicheskiy institut.
(Woodworking machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

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SHVYREV, F.A.

Sharpening woodcutting instruments with diamond wheels. Der. prom. 13 no.6:28 Je '64. (MIRA 17:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

YUKHNOVICH, A.N., veter. vrach (Yel'ninskiy rayon, Smolenskoy oblasti); RUDOMETKIN, Ya.S., veter. vrach; EVENTOV, M.Z., veter. vrach; SOBOLEV, A.S., dotsent (Estonskaya SSR); DOL'NIKOV, Yu.Ya., kand. veter. nauk; PALIMPSESTOV, M.A., prof.; SIMONENKO, N.M., dotsent; GONCHAROV, A.P., assistent; BEZRUKOV, A.A.; FROLENKOV, N.A., veter. vrach (Serov, Sverdlovskoy oblasti); KOSHCHEYEV, P.M.; VOROB'YEV, M.M., kand. veter. nauk; YANCHENKO, P.Kh., veter. vrach; AMELIN, I.P.; BYCHKOV, A.I., kand. veter. nauk; SHVYREV, G.I., veter. vrach (Stavropol'skiy kray); DANILIN, N.F.; TRUSHIN, A.Z., veter. vrach; SKRYPNIKOVA, T.K., veter. fel'dsher; MIKHEYEV, A.D.; KARMANOVA, Ye.M., kand. biol. nauk; REMIZOV, Ye.S., mladshiy nauchnyy sotrudnik; ANTIPIN, D.N., referent

From helminthological practice. Veterinariia 38 no.7:55-58 Jl '61. (MIRA 16:8)

1. Reshetovskiy veterinarnyy uchastok, Novosibirskoy oblasti (for Rudometkin). 2. Sovkhoz "Buda-Koshelevskiy" Gomel'skoy oblasti (for Eventov). 3. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut (for Dol'nikov). 4. Khar'kovskiy veterinarnyy institut (for Palimpsestov, Simonenko, Goncharov). 5. Blagoveshchenskiy sel'skokhozyaystvennyy institut (for Bezrukov). 6. Novo-Nikolayevskiy veterinarnyy uchastok Krasnodarskogo kraya (for Lochkarev). 7. Karpilovskiy veterinarnyy uchastok Chernigovskoy oblasti (for Ponomarenko). 8. Kamalinskiy veterinarnyy uchastok Krasnoyarskogo kraya (for Koshcheyev).

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

YUKHNOVICH, A.N.---(continued) Card 2.

9. Novgorod-Severskaya mezhrayonnaya veterinarnaya laboratoriya, Poltavskoy oblasti (for Vorob'yev). 10. Braginskaya rayonnaya veterinarnaya lechebnitsa, Gomel'skoy oblasti (for Yanchenko). 11. Nachal'nik veterinarnogo otdela Chelyabinskogo oblastnogo sel'skokhozyaystvennogo upravleniya (for Amelin). 12. Chelyabinskaya oblastnaya veterinarnyaya laboratoriya (for Bychkov). 13. Kaliningradskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Danilin). 14. Sovkhoz "Rodina" Kikvidzenskogo rayona, Stalingradskoy oblasti (for Trushin, Skrypnikova). 15. Zaveduyushchiy Kirovo-Chepetskoy myaso-molochnoy i pishchevoy kontrol'noy stantsiyey, Kirovskoy oblasti (for Mikheyev). 16. Gel'mintologicheskaya laboratoriya AN SSSR (for Karmanova). 17. Zapadno-Kazakhstanskaya nauchno-issledovatel'skaya veterinarnaya stantsiya (for Remizov).

(Veterinary helminthology)

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KHOROSH, V.A.; BOYKO, M.Ye.; KOSSOVSKIY, L.D.; SHVYREV, M.S.; KOPYTIN, P.I.; RUSANOV, I.I.; Prinimali uchastiye: KOVTUNOVICH, V.A.; KUKSHKINA, M.Ye.; RYAZANOVA, A.P.; VISKUNOVA, T.Ya.; MUKHINA, M.A.

Determining the optimal conditions for blooming mill operations. Stal' 23 no.4:338-340 Ap '63. (MIRA 16:4)

1. Chelyabinskiy metallurgicheskiy zavod.
(Rolling mills)

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BT - 1 Chem Eng 9 Annual

Brit. abs

Automatic regulation of dining machines. S. S. Shvyrev (*Tekst. prom.*, 1947, No. 8, 13—18).—A diskometric [illegible] and a level regulator using a similar principle are described.

E. B. Uvarov.

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REZUKHINA, T. N., SHVYREV, V.V.

Carbonyls

Pressure of saturated vapor and heats of vaporization of carbonyls of chrome, of wolfram and of molybdenum. Vest. Mosk. un. no. 6, 1952.

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

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1. ZEITSIN, N.M.: SHEYREV, S. S.

2. USSR (60)

4. Automatic Control

7. For broad introduction of automatic devices. Tekst. prom. 12. no. 11. 1952

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

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SHVYREV, S.S.(Moskva).

Automatic control in textile industries. Avtom. i telem. 15 no.2:135-140 Mr-Ap '54. (MIRA 10:3)
(Automatic control) (Textile industry)

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CHERKINSKIY, Boris Mendeleyevich; TOKAREV, Dmitriy Georgiyevich; SHAPKIN, Il'ya Fedorovich; ZOTOV, Petr Petrovich; SIMKIN,M.Ye., redaktor; PLEMYANNIKOV,M.N., redaktor; BAKASTOV,V.N., retsenzent; BRAZHKIN, M.I., retsenzent; MOTORIN,I.V., retsenzent; RATTEL',K.N., retsenzent; SHVYREV,S.S., retsenzent; NEKRASOVA,O.I., tekhnicheskiy redaktor

[Manual of power engineering for the textile industry] Spravochnik energetika tekstil'noi promyshlennosti. Moskva, Gos.nauchno-tekhn. izd-vo Ministerstva tekstil'noi promysh. SSSR. Vol.2.[Thermotechnics] Teplotekhnika. Pod red.M.E.Simkina. 1955. 510 p. (MLRA 9:2)
(Thermodynamics)

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MIL'MAN, Yakov Vladimirovich; PETROV, Ivan Arsen'yevich; SHVYREV, S.S., kandidat tekhnicheskikh nauk, retsenzent; LIOZNOV, A.G., redaktor; NEKRASOVA, O.I., tekhnicheskiy redaktor

[Automatic electric drive for textile machinery] Avtomatika elektroprivoda tekstil'nykh mashin. Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956. 391 p. (MLRA 9:10)

(Automatic control)
(Textile machinery--Electric driving)

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PISMANNIK, K.D.; SHVYREV, S.S.

Apparatus with a radioactive element for the control of sliver irregularity. Tekst.prom. 16 no.7:49-52 Jl '56. (MLRA 9:8)
(Radioisotopes--Industrial applications)(Spinning)

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KUKHNOV, Dmitriy Aleksandrovich; SHVYRMV, S.S., retsenzent; KOPELEVICH, Ye.I., red.; KNAKNIN, M.T., tekhn. red.

[Automatic electric drive for combined picker-opener units] Avtomatizirovannyi elektroprivod razrykhlitel'no-trepal'nykh agregatov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1958. 42 p. (MIRA 11:7)

(Cotton gins and ginning)

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Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science; Machine and Instrument Manufacturing, Moscow, Izd-vo AN SSSR, 1958. 258 p.

Pchelin, V.A., and T.A. Shmeleva (MGU imeni Lomonosova; NII mekhovoy promyshlennosti — Moscow State University imeni Lomonosov; Scientific Research Institute of the Fur Industry). Radiometric Determination of the Fur Density of Pelts 203

Shvyrev, S.S., A.N. Slatinskiy, and K.D. Pismannik (Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti — Central Scientific Research Institute of the Cotton Industry). Use of Radioactive Isotopes in the Textile Industry 206

Nekhayevskiy, Ye.A. (VNII Goznak). Use of Radioactive Isotopes in the Control of the Weight of Paper Sheets 212

Kardash, Ye.G. (Tsentral'nyy nauchno-issledovatel'skaya laboratoriya Gosgortekhnadzora — Central Scientific Research Laboratory of "Gosgortekhnadzor"). Scintillation Pipe Thickness Gauge 217

Iordan, G.G., and T.G. Neyman (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya — Scientific Research Institute for Heat-Power Instrument Making). Measurement of Solution Concentrations With Beta Radiation 223

Yermoleyev, Ye.I. Use of Backscattering of Beta Radiation in the Control of the Thickness of Coatings 227

Yur'ev, N.V. Apparatus for the Measurement of the Thickness of Coatings 234

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POLONIK, Pavel Artem'yevich; SHVYREV, S.S., red.; SOKOLOVA, V.Ye., red.; KNAKNIN, M.T., tekhn.red.

[Electrifiable nature of synthetic fibers and its control] Elektrizuemost' khimicheskikh volokon i bor'ba s nei. Pod red. S.S.Shvyreva. Moskva, Nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 94 p. (MIRA 13:3)
(Textile fibers, Synthetic) (Electrostatics)

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BELEN'KIY, Lyudvig Iosifovich; SHVYREV, S.S., retsenzent; VERBITSKAYA, Ye.M., red.; SHAPENKOVA, T.A., tekhn.red.

[Automatic control and regulation of technological processes in the finishing industry] Avtomaticheskii kontrol' i regulirovanie tekhnologicheskikh protsessov otdelochnogo proizvodstva. Moskva, Gos.nauchno-tekhn.izd-vo RSFSR, 1960. 137 p.

(MIRA 14:4)

(Textile finishing) (Automatic control)

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PHASE I BOOK EXPLOITATION SOV/4358

Trud i tekhnika v semiletke (Labor and Engineering in the Seven-Year Plan) Moscow, Profizdat, 1960. 365 p. (Series: Massovaya biblioteka rabochego) 10,000 copies printed.

Compiler: S. G. Krylov; Ed.: A. V. Anisimov; Tech. Ed.: A. A. Golichenkova.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a collection of 19 articles dealing with the achievements and progress of the Seven-Year Plan in branches of the Soviet economy and in science. Attention is given to power plant construction, machine building, cybernetics, electrification, transportation, prospecting, steel production, production of consumer goods, mechanization of agriculture, and chemistry. Suggestions for further progress are made. No personalities are mentioned. There are no references.

Prokopovich, A. Ye. [Deputy Director, Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov (Experimental Scientific Research Institute of Metal-Cutting Machine Tools)] From Automatic Machine Tools to Automatic Production Lines, Shops, and Factories 59

Kobrinskiy, A. Ye. [Doctor of Technical Sciences] Program Control of Machine Tools [illegible]

Solodovnikov, V. V. [Doctor of Technical Sciences, Professor] Cybernetics 119

Petrov, B. N. [Corresponding Member, Academy of Sciences USSR] Automation in the Near Future 127

Gamburg, D. Yu. [Candidate of Chemistry] Chemistry Today and Tomorrow 142

Fedorov, I. S. [Candidate of Technical Sciences] Foundation of Industry 166

Steklov, V. Yu. [Deputy Director, Moscow Branch of the "Orgenergostroy" Institute] The Seven-Year Plan and the Electrification of the USSR 189

Chukhanov, Z. F. [Corresponding Member, Academy of Sciences USSR] On Comprehensive Utilization of Fuel 207

Borisov, M. I. [Chairman, Central Committee, Trade Union of Workers in the Building-Materials Industry]. The Conveyor in a Large Construction Project 223

Chekanov, A. A. [Candidate of Technical Sciences] Welding Belongs to the Future 252

Shcherbakov, D. I. [Member, Academy of Sciences USSR] What Is New in Prospecting for Mineral Resources 267

Petrov, N. A. [Candidate of Technical Sciences, Deputy Chairman, State Scientific and Technical Committee, Council of Ministers of the USSR] New Engineering for the Creators of Plenty 290

Shuyrev, S. S. [Instructor at the Automation Laboratory, Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti (Central Scientific Research Institute of the Cotton Industry)] For the Welfare of the People 308

Breyev, B. D. [Director, Tsentral'nyy nauchno-issledovatel'skiy institut kozhevennoy i obuvnoy promyshlennosti (Central Scientific Research Institute of the Leather and Footwear Industry)] Half a Billion Pairs of Shoes 320

Karpenko, A. N., Member, All-Union Academy of Agricultural Sciences imeni V. I. Lenin. Large-Scale Mechanization of Agriculture 325

Zvonkov, V. V. [Corresponding Member, Academy of Sciences USSR, Honored Scientist and Technologist] A Big Leap 341

Explanation of Foreign Terms and Difficult Words Occurring in the Book 363

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

MIL'MAN, Yakov Vladimirovich; SHVYREV, Sergey Sergeyevich; DOMANITSKIY, S.M., kand. tekhn.nauk, dots., retsenzent; MAYZEL', M.M., doktor tekhn. nauk, prof., retsenzent; SOKOLOVA, V.Ye., red.

[Fundamentals of the automation of technological processes in the textile industry] Osnovy avtomatizatsii tekhnologicheskikh protsessov v tekstil'noi promyshlennosti. Moskva, Izd-vo "Legkaia industriia," 1964. 389 p. (MIRA 17:6)

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BERLINER, Mark Aleksandrovich; SMIRNOV, S.M., retsenzent; USOL'TSEV, V.A., red.; SHVYREV, S.S., red.

[Electrical measurements, automatic control and regulation of moisture] Elektricheskie izmereniia, avtomaticheskii kontrol' i regulirovanie vlazhnosti. Izd.2., perer. i dop. Moskva, Energiia, 1965. 487 p. (MIRA 18:7)

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SHVYREV, V. S.

Dissertation defended for the Candidate of Philosophical Sciences at the Institute of Philosophy

"Criticism of the Neopositiristic Concept of the Logic of Science."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-125

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R[illegible]MINA, T. V.; [illegible], V. V.

Vaporization, Heats of

Pressure of saturated vapor and heats of vaporization of carbonyls of chrome, of wolfram and of molybdenum. Vest. Mosk. un. No. 6, 1952.

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

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[illegible], L. [illegible].

[illegible] - [illegible]. [Drum operator and innovator]. Moskva, Mashgiz, 19[illegible]. [illegible] p.

SO: Monthly List of Russian Accession, Vol. [illegible] No 10 January 1954

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVY

[illegible] efficient work in ports. Rech. transp. 21 no.8: [illegible] (MIRA 18:9)

[illegible] Leningradskogo rechnogo porta.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

S/724/61/000/000/002/020

AUTHORS: Kolobnev, I. F., Shvyreva, L. V., Aristova, N. A., Mishin, G. Ya.

TITLE: Composition, structure, and properties of the alloy AA19 (AL19)

SOURCE: Liteynyye alyuminiyevyye splavy; svoystva, tekhnologiya plavki, lit'ya i termicheskoy obrabotki. Sbornik statey. Ed. by I. N. Fridlyander and M. B. Al'tman. Moscow, Oborongiz, 1961, 16-27.

TEXT: The paper describes the reasonings which led to the development of the AL19 alloy and adduces data to show that the alloy is characterized by an elevated heat resistance, good mechanical properties at room temperature (T), and good weldability. It is noted, however, that it has less desirable casting properties which must be taken into account in the development of casting technologies of various types. The following criteria governed the development of the alloy AL19: (1) It was to be an alloy of the Al-Cu system to obtain the highest achievable strength characteristics at room T and at elevated T; (2) the Cu content should not exceed 5.5% to avoid embrittlement at room T and the development of diffusion plasticity at elevated T; yet the Cu content could not be less than 4.5% to retain maximum strength and ductility at room T; (3) the third component of the alloy was to exhibit: (a) A high interatomic bond, (b) a minimal diffusion coefficient in solid

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Al, (c) a sufficiently elevated solubility at room T and at operating T (300-350°C); (d) an ability to form structurally and chemically complex phases which would participate in the formation of a refractory eutectic, would strengthen the grain boundaries of the solid solutions, and also would form a microheterogeneity within the solid-solution grains that would constitute comparatively stable minute solid particles even at high operating T. Mn was chosen to serve as that third component. The effects of Cu and Mn on the mechanical properties of alloys of the Al-Cu-Mn system with varying Cu contents are tabulated in detail, using a reference alloy with Al with 5.0% Cu and 0.9% Mn. The influence of Ti, Cr, and V on the properties of the alloys are analyzed in detail, and the results are tabulated. It is concluded that most favorable properties at elevated operating T are exhibited by an alloy containing 4.5-5.3% Cu, 0.6-1.0% Mn, and 0.25-0.45% Ti. This alloy is designated henceforth as AL19. The effect of additions of Si, Fe, and Mg on the properties of the Al alloy are discussed in detail, and the following optimal values are determined: Fe up to 0.3%, Si up to 0.3%, and Mg up to 0.05%. The optimal heat-treatment procedure for the alloy thus determined is then developed. Two heat-treatment procedures consisting of a quench and a quench-plus-aging, respectively, are developed for the alloy; the first procedure produces an 8-12% elongation and a 30-35 kg/mm^2 tensile strength, the second a 3-6% elongation and a 34-43 kg/mm^2 tensile strength. The latter is recommended for parts operating under higher stresses. A full-page

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table summarizes the mechanical properties of the AL19 alloy at T ranging from −40 to +350°C for both heat-treatment versions. The stress-rupture values for T from 175 to 350° of AL19 alloys, heat-treated according to both regimes, and a comparison table of the mechanical properties of the AL19 alloy as against those of other widely utilized Soviet cast Al alloys at T ranging from 200 to 300°C are also tabulated. The physical properties of the AL19 alloy, namely, its heat conductivity and its linear expansion coefficient, are tabulated for the two heat-treatment versions of the alloy, for T from 250-300°C. The technological and casting properties of the AL19 and its microstructure in both the freshly and the heat-treated state are described and depicted in microphotographs. The microstructure of the AL19 alloy appears to be the same after either type of heat treatment. There are 4 figures, 9 tables, and 1 German-language reference:

Hofmann, W., Falkenhagen, G., Z. f. Metallkunde, v. 43, 1952.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

S/724/61/000/000/003/020

AUTHORS: Kolobnev, I. F., Mishin, G. Ya., Aristova, N. A., Shvyreva, L. V., Mel'nikov, V. A.

TITLE: Smelting and casting procedures for the AL19 alloy.

SOURCE: Liteynyye alyuminiyevyye splavy; svoystva, tekhnologiya plavki, lit'ya i termicheskoy obrabotki. Sbornik statey. Ed. by I. N. Fridlyander and M. B. Al'tman. Moscow, Oborongiz, 1961, 28-35.

TEXT: The paper describes the equipment and procedures employed in the smelting and casting of the AL19 alloy. While all types of standard furnaces can be employed, electric resistance furnaces, and especially inductance furnaces, are most effective in producing strong castings with a minimal porosity in the shortest possible time. The preparation of the preliminary alloy is described in detail, with due consideration to the burn-off of metals in various types of charges and in two types of furnaces. The charging order, including the principal components and the ligatures, is listed, and the refining of the melt by gaseous Cl or dehydrated chlorous Mn is described. A maximum smelting T of 720°C is recommended. This is followed by a step-by-step explanation of the sequence of the preparation of the working alloy. It is noted that, in the preparation of AL19 alloy, liquation and

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

Smelting and casting procedures for the AL19 alloy. S/724/61/000/000/003/020

elevated porosity can be prevented only by thorough mixing and refining. In designing the process equipment for the casting of AL19 parts, it is necessary to provide a forced feed, a decentralized input of metal, and the application of input rods. Bottom pouring is established as the basic system of pouring cast AL19 alloy. For tall cylindrical castings it is recommended that a vertical-slot system with two pits be used. For large ingots the following basic parameters of the pouring system are specified: (a) The diameter of the risers is 18-25 mm; it is desirable to set up casting screen underneath the risers, also to provide a sufficient metal-receiver and slag-catcher volume; (b) the cross-section of the collectors must exceed the cross-section of the riser by 2-3 times; the number of slag catchers in the collector is determined by the metal volume of the mold and its size and complexity; (c) the total cross-section of the feeders must exceed the cross-section of the riser by 3 or 4 times, and the width of the feeder must not exceed 6-8 mm. The number and size of the overflow gates must be selected with due consideration of the most massive portions of the casting; the overflow system applicable for Silumin-type alloys is not suitable for the casting of AL19 alloy; the AL19 alloy has twice the viscosity of Silumin, so that especially high overflow gates do not operate satisfactorily; it is advisable to establish low overflow gates having an elliptic cross-section. There are 4 figures, and 3 tables; no references.

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

KOLOBNEV, I.F.; BUSAROV, V.M.; SHVYREVA, L.V.

Heat-resistant, silumin-type alloy for internal combustion engine pistons. Alium. splavy no.1:33-40 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

KOLOBNEV, I.F.; SHVYREVA, L.V.

Effect of cerium and zirconium on the properties and structure of the Al19. Alium. splavy no.1:92-98 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. S-4

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79076.

Author : Shvyreva, N. Ye.
Inst : Not given.
Title : Reactive Changes of the Nerve Apparatus of the Lymph Nodes During Several Pathological Conditions of the Organism.

Orig Pub: Sb. nauchn. tr. Ivanovsk. med in-ta, 1957, vyp. 12, 349-354.

Abstract: Changes were studied in the nerve apparatus of the cervical and mesenteric lymph nodes (LN) of persons who died of cancer of different organs, of tuberculosis of the lungs and intestines, of acute and chronic dysentery. More often than not, the LN were found to be a sig-

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. S-4

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79076.

Abstract: nificant distance from the afflicted organ. The reaction of the innervating apparatus of the LN during cancer appears to be predominantly associated with phenomena of stimulation; with tuberculosis, degeneration dominates; with chronic dysentery, both categories of changes are combined, though less sharply expressed; during acute dysentery, the changes are neither permanent nor significant. The data obtained contradicts observations on the stereotypic changes of the nerve elements during various illnesses.

Card 2/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

USSR / Human and Animal Morphology (Normal and Pathological). Nervous System. S-4

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79074.

Author : Shvyreva, N. Ye.
Inst : Not given.
Title : Innervation of the Lymph Nodes of Man and Some Animals.

Orig Pub: Sb. nauchn. tr. Ivanovsk. med. in-ta, 1957, vyp 12, 355-362.

Abstract: The cervical and mesenteric lymph nodes (LN) of man, cats, and rabbits were studied histologically. It is shown that the LN compose a complicated nerve apparatus. It is composed of nerve trunks and of single medullated and nonmedullated fibers, as well as various receptor

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

L 2787-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD

ACCESSION NR: AP5022260 UR/0363/65/001/007/1104/1108 20
546.682'19'18-165 19

AUTHOR: Ugay, Ya. A.; Goncharov, Ye. G.; Bolkhovitina, N. B.; Shvyreva, T. N. B

TITLE: Preparation of InAs sub x P sub 1-x solid solutions of constant composition along the length of the ingot

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965, 1104-1108

TOPIC TAGS: solid solution, indium alloy, arsenic, phosphorus alloy

ABSTRACT: The authors propose a simple method for preparing solid solutions of constant composition along the length of the ingot, and illustrate it with the synthesis of $InAs_xP_{1-x}$. The method in maintaining the concentration of arsenic and phosphorus, i.e., their partial pressures, constant during the entire course of crystallization of the solid solution in the gas phase. This is done by placing solid phosphorus and arsenic in the reaction vessel at some distance from the indium: at a constant temperature, not only the partial pressures of phosphorus and arsenic, but also their ratio remains constant. If necessary, this ratio can be varied by changing the temperature of the section of the reaction ampul which contains phosphorus and arsenic. The method is applicable only to the formation

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L 2787-66

ACCESSION NR: AP5022260

of isovalent solid solutions involving two volatile components; in the case of one such component, the method is not applicable, for example, to the preparation of $Ga_xIn_{1-x}As$ solid solutions of constant composition along the length of the ingot. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: 03Mar65 ENCL: 00 SUB CODE: SS, IC

NO REF SOV: 006 OTHER: 007

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

BEKLEMISHEV, N.D.; KASYMOVA, Kh.A.; SHYREVA, Ye.A.; KLYUCHNIKOVA, Ye.A.
MOSHKEVICH, V.S.; TLEULIN, S. Zh.; YAKOVLEVA, N.A.

State of the health of people inoculated with live antibrucellosis vaccines. Izv. AN Kazakh. SSR. Ser. med. nauk no.1:84-90 '64
(MIRA 17:7)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

UTIMAGANBETOV, M.M., kand.geogr.nauk; BERLYAND, T.G., kand.geogr.nauk; BEZVERKHNIY, Sh.A., kand.fiz.-matem.nauk; BAYDAL, M.Kh., kand. geogr.nauk; KUZNETSOV, A.T., kand.geogr.nauk; CHUBUKOV, L.A., doktor geogr.nauk; SHVYREVA, Yu.G., mladshiy nauchnyy storudnik; UTESHEV, A.S., kand.geogr.nauk; GOL'TSBERG, I.A., doktor geogr. nauk; KLYKOVA, Z.D., starshiy nauchnyy sotrudnik; MEN'SHIKOVA, Ye.A., mladshiy nauchnyy sotrudnik; GEL'MGOL'TS, N.F., starshiy nauchnyy sotrudnik; PROKHOROV, I.I., starshiy nauchnyy sotrudnik; TKACHENKO, N.S., mladshiy nauchnyy sotrudnik; ZHDANOVA, L.P., red.; BRAYNINA, M.I., tekhn.red.

[Climate of Kazakhstan] Klimat Kazakhstana. Pod red. A.S.Uteshova. Leningrad, Gidrometeor.izd-vo, 1959. 366 p. (MIRA 13:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Kazakhskiy pedagogicheskiy institut (KazPI) (for Utimagambetov). 3. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (GGO) (for Berlyand, Gol'tsberg). 4. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut KazNIGMI) (for Bezverkhniy, Baydal, Kuznetsov, Uteshev, Klykova, Men'shikova, Gel'mgol'ts, Prokhorov, Tkachenko). 5. Institut geografii Akademii nauk SSSR (IG AN SSSR) for Shvyreva).
(Kazakhstan--Climate)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

MAL'CHONKOVA, A.S., inzh.; KOSTOMAROVA, S.I.; DENISOVA, N.G.; DIKIKH, L.S.; NEDORUBOV, Ye.Ye.; SHVYRKINA, R.P., udarnik kommunisticheskogo truda; VANYUSHIN, M.S.

Widen the movement of shock workers and collectives of communist labor in regional offices and village communication departments. Vest. sviazi 20 no.9:25-28 S'60. (MIRA 13:10)

1. Mytishchinskaya avtomaticheskaya telefonnaya stantsiya (for Mal'chonkova). 2 Nachal'nik L'vovskogo otdeleniya svyazi Podol'skogo rayona, Moskovskoy oblasti (for Kostomarova). 3 Ispolnyayushchiy obyazannosti inzhenera Lyublinskoy avtomaticheskoy telefonnoy stantsii (for Denisova). 4. Nachal'nik Tushinskoy kontory svyazi (for Dikikh). 5. Nachal'nik 3-go otdeleniya svyazi Noginska (for Nedorubov). 6. Ekspeditor Shchelkovskoy kontory svyazi (for Shvyrkina). 7. Nachal'nik Serpukhovskogo usilitel'nogo punkta (for Vanyushin).

(Telecommunication--Employees)
(Socialist competition)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRKOV, M.B.

Bone suture with caprone thread. Stomatologiia 40 no.3:58-61 My-Je '61. (MIRA 14:12)

1. Iz kafedry propedevtiki khirurgicheskoy stomatologii (zav. - dotsent G.A.Vasil'yev) Moskvoskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy) i Moskovskogo gorodskogo chelyustno-litsevogo gospitalya (glavnyy vrach - dotsent A.A.Kovner).
(SUTURES) (NYLON)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRKOV, N.F., podpolkovnik meditsinskoy sluzhby

Medical services for submarine personnel. Mor.sbor. 44 no.2:62-70 F '61. (MIRA 14:4)

(Submarine medicine)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

MINTS, L.; SHVYRKOV, V.

Compiling and analizing a consumption model. Vop. ekon. no.5: 80-85 My '62. (MIRA 15:6)
(Consumption (Economics)) (Economics, Mathematical)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

PERROTE, A.; SHVYRKOV, V.

Influence of the duration of individual work operations on the fatigability of workers. Biul.nauch.inform.: trud i zar.plata no.6:69-73 '59. (MIRA 12:9)
(Fatigue)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRKOV, V.B.

Sympathetic influences on the activity of the cerebral cortex. Biul. eksp. biol. i med. 54 no.9:3-7 S '62. (MIRA 17:9)

1. Iz kafedry normal'noy fiziologii (zav.- deystvitel'nyy chlen AMN SSSR P.K. Anokhin) I Moskovskogo ordena Lenina meditsinskogo instituta. Predstavlena deystvitel'nykh chlenom AMN SSSR P.K. Anokhinym.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYREV, V.V.

4) A P Aleksandrov, A L Lur'ye, [illegible] - Experiences in the Application of Electronic Computers for a Solution of the Haulage Rationalization Problem.

5) A Englen - Prospects for the Use of Linear Programming in the Over-all Planning of Rolling Stock Utilization

6) Ya Glayzik - A Program for the Solution of Transport Problems on an Electronic Computer Involving Methods of Approximation By Means of Hypothetically Optimal Plans

7) A P Ivat'yakova - An Optimal Freight Haulage Plan for the USSR Coal Industry

5. Morning Session - 17 December 1959, 1000 hours
V. The Checkerboard-Type Balance

1) V S Nemchinov - Theoretical Problems of the Checkerboard-Type Balance

2) L Ya Berri - The Checkerboard-Type Balance and the Planning of National Economy

3) Ya I Chernyak - Experience in Drawing Up an Input-Output Balance for an Economic-Administrative Region

4) V S Dadayan - Some Planning Calculations Based on the Input-Output Balance of an Economic Region

5) V V Ebov - A Regional Model of Agricultural Production

6) V I Khivin, A I Klinskiy - The Nature and Special Features of Total Inputs

6. Evening Session - 17 December 1959, 1600 hours
VI. Mathematical Statistics

1) Ya N Bendersky - Statistical Methods for Determining the Average Prices of Goods

2) V V Shvyrkov - The Consumption Elasticity Indicator and Its Practical Importance in Studying the Workers' Level of Living

3) P Zhalsumyak - Analytical Methods of Studying the Dependence of Consumption on Income

4) L N Mints, B V Pinkel'shteyn - Statistics and the Use of Mathematical Methods in Economic Research

5) V V Pomerantsev - Research on Technical and Economic Laws in Non-ferrous Metallurgy with the Aid of Correlation Theory

6) N S Rayman - Application of Correlation Methods in the Analysis of Tractor Operating Costs

Report submitted at the Soviet Conference on Problems in the Application of Mathematical Methods in Economic Research, Leningrad, 19-21 January 1960.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRKOV, Vladislav Vasil'yevich. Prinimal uchastiye DRUZHININ, N.K., prof.; MATSUK, R.V., red.; BAZLOVA, Ye.M., mlad. red.

[Regularities in the consumption of industrial and food commodities] Zakonomernosti potrebleniia promyshlennykh i prodovol'stvennykh tovarov. Moskva, Ekonomika, 1965. 280 p. (MIRA 18:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

BERRI, L.; SHVYRKOV, Yu.

The structure of production in the U.S.S.R. and abroad. Vop. ekon. no.1:133-144 Ja '63. (MIRA 16:2)
(Economic history)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRKOV, Yu., nauchnyy sotrudnik

Works on the plan to optimize the industrial development of Poland. Plan. khoz. 41 no.1:89-91 Ja'64. (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy ekonomicheskiy institut Gosplana SSSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

KALANTAROV, K.D.; DELYAKOV, V.A.; VOLKOV, V.A.; GULYAYEVA, Ye.G.
~~SHVYRKOVA, I.I.~~

Production of a dosimetric device for the registration of β-activity within the body cavities in oncological practice. (MIRA 14:12)
Med.rad. 6 no.4:73-75 '61.
(RADIOMETER) (TUMORS--RADIOGRAPHY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SOV/156-58-4-29/49

AUTHORS: Kreshkov, A. P., Bork, V. A., Shvyrkova, L. A.

TITLE: Photometric Determination of Trimethyl Chloro Silane in the Products of the Direct Synthesis of Silico-Organic Compounds (Fotometricheskiy metod opredeleniya trimetilkhlorsilana v produktakh pryamogo sinteza kremniyorganicheskikh soyedineniy)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 4, pp 727-730 (USSR)

ABSTRACT: A photometric method was worked out for the determination of trimethyl chloro silane in mixtures of other methyl chloro silanes. This method is based on the interaction of trialkyl chloro silane with phosphorus anhydride and the developing ester of the phosphoric acid is converted into molybdenum blue complex. The conversion into molybdenum blue is carried out by means of $SnCl_2$. For the construction of the calibration curve, standard benzene solutions of $(CH_3)_3SiCl$ with a content of 0.0364 g $(CH_3)_3SiCl$/ml are used. Detailed working instructions are given. The method can be applied for the determination of

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SOV/156-58-4-29/49

Photometric Determination of Trimethyl Chloro Silane in the Products of the Direct Synthesis of Silico-Organic Compounds

trimethyl silane in solutions containing 0.1-100% $(CH_3)_3SiCl$. There are 1 figure, 4 tables, and 7 Soviet references.

ASSOCIATION: Kafedra analiticheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta im. D. I. Mendeleyeva (Chair of Analytical Chemistry at the Moscow Chemical and Technological Institute imeni D. I. Mendeleyev)

SUBMITTED: May 5, 1958

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

S/032/61/027/002/004/026
B134/B206

AUTHORS: Kreshkov, A. P., Bork, V. A., and Shvyrkova, L. A.

TITLE: Quantitative analysis of products of direct synthesis of alkyl chloro silanes

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 2, 1961, 147-149

TEXT: A satisfactory method has so far not been elaborated for the production control of alkyl chloro silanes and their derivatives. In the present case, a method is described which permits a quick and simple determination of the individual components in the mixture of alkyl chloro silanes. The determination of methyl trichloro silane is based on the formation of solid polymer compounds after hydrolytic cleavage and subsequent condensation of the resulting methyl silanetriol. Under these conditions, the other methyl chloro silanes form liquid linear polymers so that the amount of solid polymer can be quantitatively determined by gravimetry or nephelometry. The determination of hydrogen-containing methyl chloro silanes is based on an oxidation of the $\equiv$SiH bond with permanganate. $SiCl_4$ is determined by means of an aqueous solution of

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

molybdate, since silicon molybdenum heteropoly acid forms thereby which can be photometrically determined owing to its blue color. The other compounds showing a ≡Si-C≡ bond do not react with ammonium molybdate. Trimethyl chloro silane is determined by a method previously described (Ref. 9), while the content of dimethyl dichloro silane in the mixture can be calculated from the difference. From the working technique described it can be seen that for the nephelometric determination of methyl trichloro silane in the mixture by means of an ФЭК-М (FEK-M) instrument, a calibration curve must be plotted, since the degree of turbidity depends on the way the mixture was prepared. Up to 10% dimethyl dichloro silane and up to 5% trimethyl chloro silane do not disturb the determination. The content of methyl trichloro silane according to the gravimetric method is calculated by the equation $CH_3SiCl_3 = (a_{SiO_2} + 2.33)/0.16$ (a_{SiO_2} = quantity of SiO_2 weighed after igniting. For the determination of $SiCl_4$, a somewhat modified method (Ref. 10) is applied to determine the ortho-silicic acid ester. The analytical results show that $SiCl_4$ can be determined by this method in

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

Quantitative analysis of products ... S/032/61/027/002/004/026
B134/B206

the presence of methyl chloro silanes. There are 2 figures, 2 tables, and 10 references: 8 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva
(Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

S/032/62/028/002/003/037
B101/B110

AUTHORS: Kreshkov, A. P., Bork, V. A., and Shvyrkova, L. A.

TITLE: Quantitative determination of hydrogen-containing organosilicon compounds

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 151 - 154

TEXT: Two methods are described which are based on the formation of Hg_2Cl_2 formed by reaction of $HgCl_2$ with hydrogen bound to Si. In the phototurbidimetric method, the optical density of the Hg_2Cl_2 suspension is determined by an ФЭК-М (FEK-M) photocolorimeter with yellow light filter. Acetone, methyl-ethyl ketone, or their mixtures with benzene were used as solvents. All solvents produced proportional dependence of the optical density on the concentration of the hydrogen-containing organosilicon compounds. 75% benzene + 25% methyl-ethyl ketone was found to be optimum. When determining hydrogen in $CH_3C_6H_5SiHCl$, the presence of phenyl-methyl dichloro silane reduces the optical density. A special calibration scale

Card 1/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

L 13322-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AT3002343 S/2513/63/013/000/0148/0156

AUTHORS: Bork, V. A.; Shvy*rkova

TITLE: Methods for analyzing organosilica compounds containing silica-bonded hydrogen

SOURCE: AN SSSR. Komissiya po analiticheskoy khimii. Trudy. v.13, 1963. Organicheskiy analiz. 148-156

TOPIC TAGS: hydrogen, silica, phototurbemetric method, gravimetric method, photocolorimetry, permanganate method, acetic acid, HgClsub2, acetone, methylethylketone

ABSTRACT: Several new methods for the determination of silica-bonded hydrogen atoms in organosilica compounds have been developed. These methods are: (i) Phototurbidimetric method - based on the reaction of ≡SiH-bond with $HgCl_2$ in non-aqueous solvents such as acetic acid, acetone, methylethylketone, ethylacetate and butylacetate and also methylethylketone-benzene, and ethylacetate-benzene mixtures; (ii) Gravimetric method - based on the weighing of calomel precipitate obtained by reacting ≡SiH bond with $HgCl_2$ in benzene-acetone solvent. This method is very simple and fairly accurate;

Card 1/2

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ACCESSION NR: AT3002343

(iii) Photocolorimetric method - based on the oxidation of ≡SiH bond with $KMnO_4$. The color intensity decreases with an increase of concentration of hydrogen containing compounds. The method can be applied in the determination of hydrogen containing impurities up to 30%; (iv) Permanganate method - this method is based on the oxidation of ≡SiH bond with $KMnO_4$. The mixture is dissolved in glacial acetic acid and titrated with standard 0.05 N $KMnO_4$ strongly acidified with H_2SO_4. Orig. art. has: 5 tables and 3 figures.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Chemical Engineering Institute). Kafedra analiticheskoy khimii (Dept. of Analytic Chemistry).

SUBMITTED: 00 DATE ACQ: 13Jun63 ENCL: 00

SUB CODE: EL, CH NO REF SOV: 005 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

[illegible]

Amperometric [illegible] titration of [illegible], [illegible], and thiocyanates with [illegible] [illegible] acetic acid. Zhur. anal. khim. 20 no.[illegible] [illegible]. (MIRA 18:7)

1. Moskovskiy khimiko-tekhnicheskiy institut imeni Mendeleyeva.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

BORK, V.A.; SHVYRKOVA, L.A.

Bibliography. Plast. massy no.9:68 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRKOV, M.V. (Sochi); KONTOPULO, Ye.G. (Sochi); RUDAKOVA, S.I. (Sochi); MONTRANTSEV, A.A. (Sochi)

Treatment of patients with atherosclerotic myocardiosclerosis at the Sochi-Matsesta Health Resort. Vop.kur., fizioter. i lech. fiz. kul't 30 no.5:420-426 S-O '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

ALABIN, V.I., inzh.; ZAKHAROV, V.S., inzh.; SHVYRYAYEV, G.I., inzh.

Press for making door panels. Suggested by V.I.Alabin, V.S. Zakharov, G.I.Shvyryayev. Rats.i izobr.predl.v stroi. no.13: 110-111 '59. (MIRA 13:6)

1. Balashikhinskiy kombinat proizvodstvennykh predpriyatiy Glavmosoblstroya, g.Balashikha, Moskovskoy oblasti, Rabochiy poselok.

(Doors) (Wood, Compressed)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

CA

7

Standardization of materials used in electroplating. G. K. Shvyrynev and G. G. Trespe. *Korrozyia i Borba s Nei* 5, No. 3-4, 136-52(1939).—Review of foreign and Soviet literature. 46 references. C. S. Shapiro

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

On the Consumption of Chemicals and Materials in Plating Shops. G. K. Shvyrynev and G. G. Treale (*Korroziya i Bor'ba s Ney*, 1941, 7, (2), 37–43).—[In Russian.] Data and calculations are given.—N. A.

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAEV, G. K.

Sbornik instruktsii po podgotovke poverkhnosti metalloizdelii pered gal'vanicheskimi pokrytiiami. Moskva, Mashgiz, 1945. 61 p.

Instructions in the preparation of metal surfaces for electroplating.

DLC: Unclass.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

10T69

SHVYRYAYEV, G. K.

USSR/Plating, Chromium
Piston rings

Jun 1947

"Porous Chrome Plating of Piston Rings," G. K. Shvyryayev, 6 pp

"Vestnik Inzhenerov i Tekhnikov" No 6

Discusses preparation of the surface of the rings, mounting and rack in the chrome-plating bath, chrome plating, obtaining porous chrome, heat processing, and mechanical processing. Illustrated with photographs and diagrams.

10T69

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEV, G. K. IA 12T68

USSR/Plating, Chromium Electroplating Apr 1947

"Porous Chrome Plating," G. K. Shvyryayev, 5 pp

"Vestnik Inzhenerov i Tekhnikov" Vol XXXII, No 4

Discusses effect of chrome plating in resisting wear. Microphotos showing development of flaws in the plating.

12T68

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEV, G.K.

SHLUGER, M.A., kandidat tekhnicheskikh nauk; SHVYRYAYEV, G.K., inzhener.

Diagram of deposits of porous chromium. TSvet.met. 27 no.4:55-58 Jl-Ag '54. (MIRA 10:10)

(Chromium--Metallography)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

Choice of suitable conditions of electrolysis for obtaining porous chromium deposits. G. K. Shvyrvaev and M. A. Shluger. *Vestnik Mashinostroeniya* 34, No. 5, 64-8(1954).—Honed internal surfaces of steel rings 50 mm. high and 160 mm. in diam. were individually Cr plated under different conditions for detg. the factors leading to the max. porosity of a 0.1 mm. deposit. Porosity, detd. as the no. of grains per sq. cm., increased rapidly with c.d., rising from 30 to 50 amp./sq. dm. when deposited at 55-65° and slower between 50 and 70 amp./sq. dm. The effect was less felt at other temps. A higher CrO_3:SO_4 ratio reduced the influence of c.d. CrO_3 concn. did the same. Temp. of electrolyte had the max. effect, particularly in the 50-60° range, and its increase enlarged grain size.

J. D. Gat

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEV, Grigoriy Konstantinovich; KLINOV, I.Ya., redaktor; KISELEV, V.S., redaktor; KLINOV, I.Ya., redaktor; KRUCHININ, V.I., redaktor; POLYAKOV, K.A., redaktor; SAGALAYEV, G.V., redaktor; AYZENSHTAT, I.I., redaktor; KORNEYEVA, V.I., tekhnicheskiy redaktor

[Electrolytic metal coating for parts and articles for the chemical industry] Elektroliticheskie metallicheskie pokrytiia detalei i izdelii v khimicheskoi promyshlennosti. Pod. red. I.IA.Klinova, Moskva, Gos.nauchno-tekhn.izd-vo khimicheskoi lit-ry, 1955. 54 p. (Korroziia v khimicheskikh proizvodstvakh i sposoby zashchity, no.2) (MLRA 8:10)

(Electroplating)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

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ASHURKOV, L.M., spets. mashinstr.; BLIZHEVSKIY, L.A., spets. mashinst.; VASIL'YEVA, Ye.N., spets. mashinstr.; KOVAL'SKIY, N.N., spets. mashinstr.; MOKIN, M.I., spets. mashinstr.; SMIRNOV, V.P., spets. mashinstr.; BOBKOV, L.S., retsenzent; VETUKHNOVSKIY, Z.B., retsenzent; MAKSIMYAK, G.P., retsenzent; MIKHAYLOVSKIY, V.I., retsenzent; SHVYRYAYEV, G.K., retsenzent; VALETOV, V.V., red.; RADAYEVA, Z.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Norms for the consumption of materials in the manufacture of machinery; a handbook] Normirovanie raskhoda materialov v mashinostroenii; spravochnik. Pod red. V.V.Valetova. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.2. 1961. 479 p. (MIRA 15:2)

(Machinery industry)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEV, G. V., Engr

PA 10/49T53

USSR/Engineering
Machinery - Reclamation

May/Jun 48

"Review of 'Wear and Restoration of Parts in Various Equipment' by Docent S. M. Savchenko, Candidate of Technical Sciences," G. V. Shvyryayev, Engr, Committee of Galvanostegy, VNITO, 1 p

"Vest Inzhener i Tekhnik" No 3

Highly unfavorable review of book, which discusses factors affecting the wear of parts and method of repairing them (metallization, etc.). Published by Oborongiz, Moscow, 1948.

10/49T53

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

BABAYEV, Nik., sud'ya vsesoyuznoy kategorii; SHVYRYAYEV, V., sud'ya respublikanskoy kategorii

Proper processing of barograms. Kryl. rod. 14 no.11:35-36 N '63. (MIRA 16:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEV, V.P.

A water meter-indicator designed for hydrolysis equipment. Gidroliz. i lesokhim. prom. 8 no.3:25 '55. (MLRA 8:9)

1. Master po kontrol'no-izmeritel'nym priboram Stalingradskgo gidroliznogo zavoda

(Water meters) (Hydrolysis)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEVA, A.M.

Results of using geobotanical characteristics for distinguishing lithologically similar strata of different origin. Trudy VAGT no.1: 19-33 '55. (MLRA 9:11)

(Phytogeography) (Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

15-57-1-935

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1, p 148 (USSR)

AUTHORS: Shvyryayeva, A. M., Starikova, L. M.

TITLE: The Prospects of Using Geobotanical Indicators for Detecting Salt-Dome Structures (Perspektivy ispol'zovaniya geobotanicheskikh priznakov dlya obnaruzheniya solyanokupol'nykh struktur)

PERIODICAL: Tr. Vses. aerogeol. tresta, 1955, Nr 1, pp 82-88.

ABSTRACT: A comparison of a structural map from one of the Caspian districts, with a map of saline soils, constructed from geobotanical data, shows a coincidence of areas of salt-dome structures with districts of maximum salinity of soil and of development of hypertrophied plant forms, in association with increased bitumen content of the soil. Because of their simiplicity and economy, geobotanical investigations deserve attention and are recommended for reconnaissance work. Yu. Ye. B.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

VOSTOKOVA, Ye.A., VYSHIVKIN, D.D., KAS'YANOVA, M.S., NESVETAYLOVA, N.G., SHVYRYAYEVA, A.M.

Geobotanical evidence of bituminosity. Trudy VAGT no.1:99-117 '55. (MLRA 9:11)

(Phytogeography) (Petroleum) (Prospecting)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

BUYALOV, N.I., SHVYRYAYEVA, A.M.

Geobotanical investigation methods in connection with boron prospecting. Trudy VAGT no.1:135-146 '55. (MLRA 9:11)
(Boron) (Phytogeography)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

15-57-7-9860

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7, p 162 (USSR)

AUTHORS: Buyalov, N. I., Shvyryayeva, A. M.

TITLE: Complex Methods of Investigation in Exploring for Boron (Kompleksnyye metody issledovaniy pri poiskakh bora)

PERIODICAL: Sb. statey Vses. zaoch. politekhn. in-ta, 1956, Nr 13, pp 35-48

ABSTRACT: Geological observations were accompanied by a geobotanical survey in prospecting for boron in Western Kazakhstan. It was the purpose of the geobotanical survey to determine the possibility of using the plant cover as an indication of the B content in the soil. Studies were conducted along three lines in the summer of 1954, in areas of known B deposits. These studies included: 1) searches for plants which would constitute

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15-57-7-9860

Complex Methods of Investigation (Cont.)

direct indications of the presence of B in the soil; 2) searches for changes in plants which would constitute direct indications of a high B content in the soil; 3) study of the possibility of using the whole plant cover as an indirect indication of the presence of B in the soil. Since the B minerals differ in chemical composition, and since B in various combinations has a different effect on plants, the plant cover was studied for various types of deposits. The area investigated is a salt dome, well-defined in relief. The center of the dome is covered with a gypsum cap 50 m to 80 m thick, which emerges on the surface, but is covered in places with argillaceous soils up to 6 m thick. The entire territory is characterized by karst formations. Observations were conducted on areas of development of various deposits. These are classed as gypsum, argillaceous, and carbonate, depending on the nature of the admixtures; they are also classed as ulexitic, ascharitic, and hydroboracitic, depending on the boron-containing minerals. The work resulted in the following conclusions: 1) the studies to find plants which would act as direct

Card 2/4

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15-57-7-9860

Complex Methods of Investigation (Cont.)

indications of the presence of B have thus far not given positive results; 2) the plant cover as a whole may be used as an indirect indication of the boron potential of rock of specific lithologic composition; 3) the nature and degree of action of B on plants depend on the content of B in the substratum; 4) the vegetation is luxurious where the B content is only a few hundredths of a percent, while vegetation is completely absent in sectors with a high B content; high concentrations are tolerated only by saltwort and bush statice; 5) with an increase in B content of the soil, the following succession of plant associations occur: white wormwood (Artemisia), bush statice and saltwort; 6) deposits of B in saline clays are characterized by growth of saltwort; ascharitic-carbonate deposits are characterized by growth of eurotia caratoides; the latter serves as an indication of the sulfate-carbonate salt content of the soil. The enumerated geobotanical prospecting criteria were used to determine the boron potential of areas not previously explored. The area studied was a salt dome structure located 100 km

Card 3/4

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEVA, A.M.; MALASHKINA, N.S.

Morphological changes and plant diseases in the boron biogeochemical province. Trudy Biogeokhim. lab. no.11:238-245 '60. (MIRA 14:5)

1. Vsesoyuznyy aerogeologicheskiy trest, Ekspeditsiya No.10.
(PLANTS, EFFECT OF BORON ON)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEVA, A.M.

Possible use of geobotanical methods in the search for salt-dome structures in the northern Caspian Sea region. Trudy MOIP 8:194-199 '64. (MIRA 17:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHVYRYAYEVA, K.M.; MIKHAYLOVA, G.A.

Interpretation of indicatory geobotanical maps in the northern Caspian Sea region. Trudy MOIP 8:220-231 '64.

(MIRA 17:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

PHASE I BOOK EXPLOITATION SOV/5871

Usovershenstvovaniye konstruktsiy i ekspluatatsii turbinnykh ustanovok; sbornik statey (Improvement in the Construction and Operation of Turbine Units; Collection of Articles) Moscow, Gosenergoizdat, 1959. 300 p. [illegible] inserted. 1,550 copies printed.

Eds. (Title page): Ya. M. Rubinshteyn, Professor, and A. V. [illegible], Corresponding Member, Academy of Sciences USSR; Ed. (Inside book): L. S. Sinel'nikova; Tech. Ed.: P. M. Asanov.

PURPOSE: The book is intended for engineers specializing in the design [illegible] ation of turbine equipment.

COVERAGE: This collection of 23 articles deals with aspects of [illegible] ations, particularly, variations in the heat [illegible] and computation of optimum parameters for [illegible] indices and a number of methods for [illegible] parameters for specific [illegible] References follow [illegible]

Shvakhin, P.N., and Ye.P. Flotkin. Investigation of the Issues Causing Vibration of Turbine Blades 1[illegible]

The authors examine the problem of vibration of [illegible] when such vibrations are induced by flow [illegible] of the frequency of vibration on [illegible] blading as well as on the nature of [illegible] Optimum designs for blading which [illegible]

Zaydel'man, R.L. Comparative Analysis of the Damping Properties of Shrouding and Types of Wire Binding 172

Methods of fastening shrouds to buckets and types of binding are analyzed with respect to vibration-damping efficiency. Curves are plotted indicating the dependence of damping properties on impact force.

Zaydel'man, R. L. Determination of the Logarithmic Decrements for Vibration Damping by Measuring the Frequency of Lateral Vibrations 178

Methods of measuring the natural damping cycle of free vibrations are discussed, and values for the logarithmic decrement are deduced.

Sereshkina, L.P. Some Results of an Experimental Investigation of Michell-Type Thrust Bearings 182

The article deals with test stands and methods of testing Michell journal-type thrust bearings. Several lubrication systems are described with reference to service reliability and minimum friction losses.

Berman, L.D., and S.N. Fuks. Improved Sealing of Condenser Tubes in Steam Turbines 209

The article discusses and evaluates several methods and coating materials for protecting condensers from direct impingement of the steam. Several arrangements for "packing" tube ends into tube sheets and for sealing water boxes are evaluated.

Zinger, N.M. Methods of Designing Jet Condensers 219

Arrangements of multijet ejector condensers and layouts of stages are discussed and design and calculation methods given.

Molchanov, Ye.I., G.G. Ol'khovskiy, and G.I. Shirvalov. Results of Final Adjustment and Testing of a 1,500-kvt Gas Turbine Plant 237

Pre-operational testing of a GT-600-1.5 turbine is described.

Molchanov, Ye.I. Selection of the Starting Procedure for a Gas Turbine 255

Molchanov, Ye.I. Experimental Stand for Testing Gas-Turbine Rotors for Thermal Fatigue 261

Allowable thermal-fatigue values and stress-distribution patterns for certain rotor elements with respect to their elasticity range are discussed.

Sharovskiy, A.V. Optimal Parameters for Inlet Temperatures in Multistage Gas-Turbine Plants 265

The problem of cycle temperatures versus pressure ratios per individual stage is discussed. Several methods for selecting the optimal thermal-efficiency regime are evaluated.

Polynovskiy, Ya.L. Determination of the Most Effective Parameters for the Regeneration Cycle of a Gas-Turbine Plant 275

The author presents his own method of computation, applicable to a stationary plant, to determine the elements of regenerator effectiveness. The method can also be used for regenerators with cross-flow arrangement.

AVAILABLE: Library of Congress

AC/gv/fal

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

1. SHYAKOV, R. N.

2. USSR (600)

4. Mosses

7. Novelties of the bryo-flora of the U.S.S.R. Bot. mat. Otd. spor. rast. 8, 1952.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

LADYGIN, Ivan Yakovlevich, kand. sel'khoz. nauk, nauchnyy sotr.; IVANOV, Aleksey Sergeyevich, nauchnyy sotr.; EDEL'SHTEYN, M.M., kand. sel'khoz. nauk, nauchnyy red.; SHYLEYKIN, P.A., red.; NAZAROVA, A.S., tekhn. red.

[Principles governing the use of fertilizers]Osnovy primeneniia udobrenii. Moskva, Izd-vo "Znanie," 1962. 37 p. (Narodnyi universitet kul'tury. Sel'skokhoziaistvennyi fakul'tet, no.12) (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for Ladygin, Ivanov).
(Fertilizers and manures)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

[illegible], N.G., [illegible]V, A. A.

Brain - Surgery

Scientific society of neurosugeons of Moscow and Moscow Province. Vop Neirokhir. 16 No. 4, 1952

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

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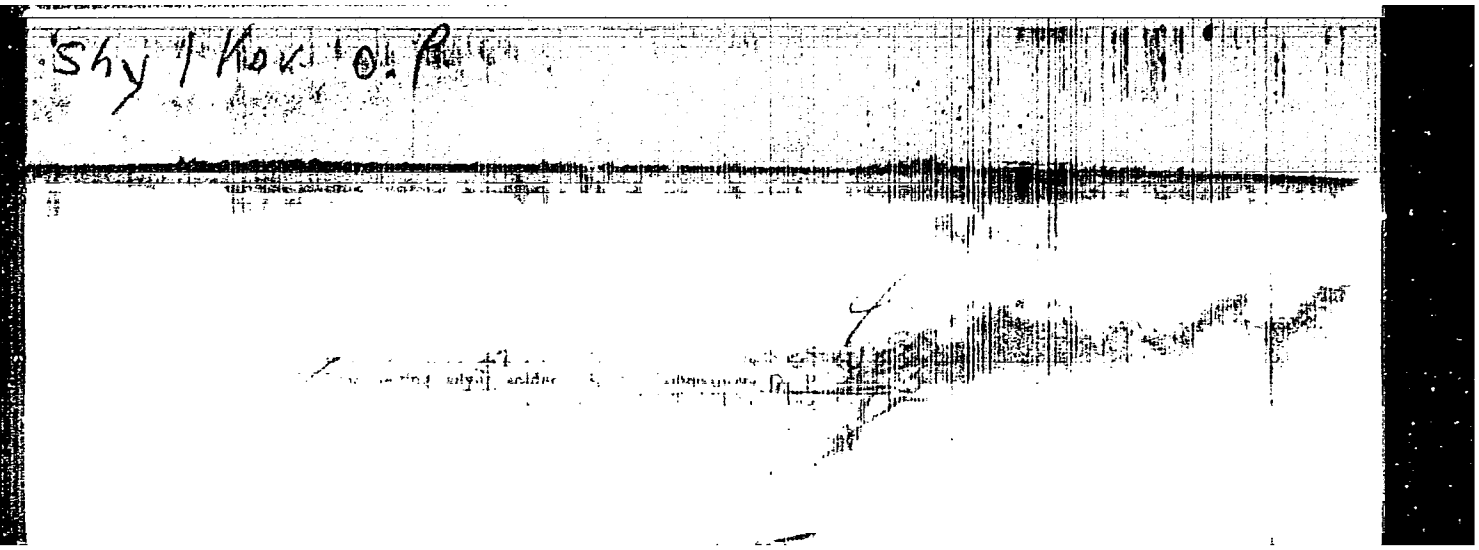
"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1



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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

1. YE. G. SHYLOV, L. V. SHYMKOV-ZAMKOV

2. USSR (600)

4. Chlorides

7. Stereochemistry and the mechanism of the formation and disintegration of cis- and trans-chlorvinylmercurchlorides. Dop. AN URSR no. 2. 1951.

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

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHYLOV, Ye. O.

Conference on problems of the mechanism of organic reactions. Ukr. khim. zhur. 19 no.2:231-232 '53. (MLRA 7:4)
(Chemical reaction--Mechanism)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

SHYMANSKIY, Mikhail [Shymanski, Mikhas']

Fulfilled dreams. Rab.i sial. 39 no.1:4-5 Ja '63. (MIRA 16:2)

(Belozersk—Construction workers)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420003-1

L 42947-65 EEO-2/EWT(1)/FCC/EEC(t)/EED-2 Pm-4/Pn-4/Pac-4/Pi-4/Pj-4/Pk-4/
Pl-4 GW/WR

ACCESSION NR: AT5008980 UR/2789/64/000/057/0049/0054

AUTHOR: Morgunov, S. P.; Shypyatskiy, A. B.

TITLE: Estimating the effectiveness of artificial influences on clouds on the basis of the polarization characteristics of the echo-signal

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 57, 1964. Radiolokatsionnyye metody aerologicheskikh nablyudeniy (Radar methods of aerological observation), 49-54

TOPIC TAGS: weather control, cloud seeding, hail prevention, meteorological electronics, echo polarization, meteorological radar, crystallization zone, weather balloon

ABSTRACT: During the 1961-1962 expedition to the Samsar Valley, a beginning was made on research work aimed at employing radar techniques to estimate the effectiveness of artificial influences on clouds for the purpose of averting hail. It is important, during such tests, to have some notion of the internal evolution of the cloud and its physical restructuring during the period of the artificial effect. The importance of the zone of crystallization which lies at the very basis of the physics of method designed to influence clouds artificially

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ACCESSION NR: AT5008980

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is pointed out, and the point is made that it would be of great value, from the point of view of estimating effectiveness, to consider the feasibility of employing radar techniques for the detection of this crystallization zone and for the study of its development and propagation. It is impossible to obtain information on the phase state of the scattering particles directly according to the magnitude of the echo signals. Why this is so is explained in the article. On the other hand, a valid estimation of the phase state of the particles which form the echo-signal at the time of artificial influences is possible by means of polarization methods of echo-signal study. The use of this method as one of the criteria in estimating the effectiveness of cloud seeding measures is considered in this article. A brief outline is given of the method as applicable to a station with a single mobile antenna. These polarization methods are based essentially on the depolarization phenomenon which occurs when radiowaves of selected polarization are scattered by the non-spherical particles of the atmosphere. In the case considered in this paper, the RF section of the radar installation was modified in order that the set might periodically radiate and receive radiowaves of different polarization. In the ARS-3 radar this was accomplished by placing a rotating quarter-wave grid array before the radiating

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element. During the actual operational conditions under which the Samsar expedition functioned, a series of echo-signal measurements was made from a standard target (a regularly-shaped metal sphere 14.5 cm in diameter carried by hydrogen-filled balloons to altitudes of several hundred feet). The present article deals only with problems of polarization measurements; a more detailed program of the work undertaken during the Expedition, along with the results of diverse radar observations, are closely analyzed in another article appearing in the same collection of which this paper is a part. The experiments aimed at artificially producing changes in cloud formations by means of surface rocket installations filled with solid carbon dioxide were conducted on 3, 13, and 31 August of 1961 in the region of the Expedition. A certain number of the experiments were also conducted by releasing various reagents from an aircraft. In addition, on days when no artificial influences were employed, the polarization characteristics of the cloud systems were also studied as the latter developed naturally. Some results of the measurements of polarization characteristics carried out on days when artificial effects were tested are discussed in this article. From an analysis of the material contained in this paper it is clear that the polarization method enables one to record the phase transformations in the cloud which are caused by the use of artificial reagents, and in so doing to

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serve as one of the criteria of the effectiveness of the overall cloud-modification effort. Orig. art. has: 2 figures.

ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory)

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SMYREK-BOROWSKA, Sabina; ROZMARYNOWSKA, Izabela; ROMANSKI, Bogdan

Biochemical and clinical studies on "Retasulfin", a sulfonamide with prolonged activity. Pol. tyg. lek. 17 no.33:1296-1300 13 Ag '62.

1. Z I Kliniki Chorob Wewnetrznych AM w Gdansku; kierownik: prof. dr M. Gorski.

(SULFAMETHOXYPYRIDAZINE)

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SHYSHKIN, I.

Internal structure of the earth. Rab.i sial. 32 no.2:22-23 F '56.

1. Pravadzeyny chlen Geagrafichnaga tavarystva Soyuza SSR.
(Earth--Internal structure)

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SHYSHKINA, N.F.

~~EISCHER, F.A.~~

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PHASE I BOOK EXPLOITATION FOL/5981

Symposium on Electroacoustic Transducers. Krynica, 1958

Proceedings of the Symposium on Electroacoustic Transducers [held in] Krynica, 17-26 September, 1958. Warsaw, Panstwowe Wydawnictwo Naukowe, 1961. 442 p. Errata slip inserted. 630 copies printed.

Sponsoring Agency: Polish Academy of Sciences. Institute of Basic Technical Problems.

Ed. in Chief: Janusz Kacprowski, Doctor of Sciences; Editing Committee: Ignacy Malecki, Professor, Doctor of Sciences; Wincenty Pajewski, Doctor; and Jerzy Wehr, Master of Sciences; Secretary: Juliusz Mierzejewski.

PURPOSE: This book is intended for physicists and acoustical engineers.

COVERAGE: The book is a collection of detailed research papers constituting the proceedings of a conference held in Krynica from 17 to 26 September 1958 under the auspices of the Institute of Technical Problems, Polish Academy of Sciences.

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