"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

VINOGRADOVA, Z.Ya.; RUDASHEVSKIY, S.Ye.

Evaluation of neuromuscular function in patients with a convulsive syndrome. Nerv. sist. no.1:89-104 '60. (MIRA 13:9)

1. Psikhonevrologicheskiy institut im. V.M. Bekhtereva i Fiziologicheskiy institut Leningradskogo universiteta.
(EPILEPSY) (MUSCLES)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDASHEVSKIY, S.Ye.; SYSOYEV, V.V.

Parabiotic nature of the refractory phase of the heart. Nerv. sist. no. 2:104-109 '60. (MIRA 14:4)
(HEART) (ELECTROPHYSIOLOGY)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

BOROVIK-ROMANOV, A.S.; RUDASHEVSKIY, Ye.G.

Effect of spontaneous striction on antiferromagnetic resonance in hematite. Zhur.eksp. i teor.fiz. 47 no.6:2095-2101 D '64. (MIRA 18:2)

1. Institut fizicheskikh problem AN SSSR.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ACC NR: AP6033545 SOURCE CODE: UR/0181/66/008/010/2862/2866

AUTHOR: Veselago, V. G.; Rudashevskiy, Ye. G.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR)

TITLE: Amplification of electromagnetic waves in ferromagnets possessing electric conductivity

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2862-2866

TOPIC TAGS: solid state plasma, plasma oscillation, plasma wave propagation, spin wave, ferromagnetic material, current carrier, electromagnetic wave, electric conduction

ABSTRACT: The authors propose to increase the amplification of electromagnetic plasma oscillations in a solid state by reducing the carrier drift and thereby reduce the heat dissipation. To this end, an analysis is made of the plasma wave propagation in ferromagnets having electric conductivity, in which coupled magnetoplasma and spin waves can propagate. The dispersion equation is written out for classical conducting ferromagnets of the iron-nickel type, with allowance for the carrier drift and damping. It is assumed that a circularly-polarized transverse plane wave propagates in the solid-state plasma. The dispersion equation for the coupled waves is written out and solved graphically, and the wave deceleration and the damping are calculated from it. The results show that the greatest amplification can be expected in ferromagnets with a single type of carrier. A plasma in a ferromagnet with two types of oppositely

Card 1/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ACC NR: AP6033545

charged carriers of equal concentration can be absolutely unstable in the case of small wave numbers. Ferromagnets with unequal number of oppositely charged carriers will have the same properties as those with a single type of carrier. Orig. art. has: 1 figure and 15 formulas.

SUB CODE: 20/ SUBM DATE: 03Feb66/ ORIG REF: 002/ OTH REF: 006

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 45098-66 EWT(1)/T IJP(c) GG/AT

ACC NR: AP6024886 SOURCE CODE: UR/0056/66/051/001/0250/0257

AUTHOR: Bar'yakhtar, V. G.; Rudashevskiy, Ye. G.; Savchenko, M. A.; Stepanov, K. N.

ORG: Physico-technical Institute, Academy of Sciences, Ukrainian SSR (Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR)

TITLE: Interaction between electromagnetic, plasma and spin waves in antiferromagnetic semiconductors and metals

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 250-257

TOPIC TAGS: plasma wave, spin wave, antiferromagnetic MATERIAL, magnetic susceptibility, ELECTROMAGNETIC WAVE

ABSTRACT: Coupled electromagnetic, plasma, and spin waves in antiferromagnetic semiconductors and metals are investigated. Since there are two spin waves in antiferromagnetics (unlike ferromagnetics, which have one), the spin and electromagnetic (plasma) wave interaction pattern in the former is more complex than in the latter. However, in antiferromagnetics the magnetic susceptibility is proportional to a small parameter χ_0 (static susceptibility), and the spin and electromagnetic oscillation coupling is therefore weak. In the region in which the frequencies of the noninteracting spin and electromagnetic (plasma) braches intersect, the frequency corrections due to wave coupling is of the order of $\sqrt{\chi_0}$, and far away from the intersection region they are of the order of χ_0. Orig. art. has: 32 formulas. [CS]

SUB CODE: 20/ SUBM DATE: 24Jan66/ ORIG REF: 005/ OTH REF: 004/

Card 1/1 blg

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDASHEVSKIY, Ye.G.; SHAL'NIKOVA, T.A.

Antiferromagnetic resonance in hematite. Zhur. eksp. i teor. fiz. 47 no.3:886-891 S '64. (MIRA 17:11)

1. Institut fizicheskikh problem AN SSSR.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 11955-65 EWG(j)/EWT(m)/EPF(c)/EPR/EWP(b)/EWP(t) Pr-4/Ps-4 ASD(a)-5/AFWL/AS(mp)-2/SSD/RAEM(a)/ESD(gs)/ESD(t) JD

ACCESSION NR: AP4046403 S/0056/64/047/003/0886/0891

AUTHORS: Rudashevskiy, Ye. G.; Shal'nikova, T. A.

TITLE: Antiferromagnetic resonance in hematite

B

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 886-891

TOPIC TAGS: hematite, single crystal, polycrystal, antiferromagnetism, resonance spectrum

18

ABSTRACT: The hematite investigated was a synthetic single crystal obtained at the Institute of the Physics of Solids of the Czechoslovak Academy of Sciences by Vihr using the method of Remeika. The measurements were made at 12--37 Gc with a magnetic spectrometer with low frequency modulation of the field, similar to that used by Borovik-Romanov et al (ZhETF v. 45, 64, 1963). Parallel measurements were made on natural crystals of hematite from the Elba and

Card 1/3

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 11955-65

ACCESSION NR: AP4046403

Shabry* deposits (SSSR) in the temperature interval 230--290K. The natural crystals displayed a single asymmetric line of approximate width 1500 Oe. The synthetic single crystals revealed a single symmetric line of width 80 Oe at 12.1 Gc and 200 Oe at 34.5 Gc. Some isolated single crystals showed an even narrower absorption line of approximately 60 Oe width at 21.6 Gc. The dependence of the resonance frequency on the external magnetic field, applied in the basal plane, is described at 290K by the formula $(\nu/\gamma)^2 = H(H + H_D) + H_\Delta^2$ (ν -- frequency, γ -- gyromagnetic ratio, H_D -- Dzyaloshinskiy field, H_Δ -- energy gap, which is independent of the direction of the applied field). It is suggested that the term H_Δ^2 is due to the spontaneous strain of the antiferromagnet. Hexagonal anisotropy of the position of the antiferromagnetic resonance line is observed below 270K and increases with decreasing temperature. The appearance of this anisotropy is attributed to the turning of the spins

Card 2/3

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 11965-65

ACCESSION NR: AP4046403

out of the basal plane. "The authors thank P. L. Kapitsa for continuous interest and A. S. Borovik-Romanov, J. Kaczer, Zdenek Frait, and I. Ye. Dzyaloshinskiy for valuable advice and discussion." Orig. art. has: 6 figures and 1 formula.

ASSOCIATION: Institut fizicheskikh problem Akademii (nauk SSSR (Institute of Physics Problems, Academy of Sciences SSSR)

SUBMITTED: 17Apr64

ENCL: 00

SUB CODE: SS, EM

NR REF SOV: 006

OTHER: 010

Oxide

Card 3/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 41344-65 EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/EEC(t)/T/EWP(t)/EWP(b)/EWA(c) Pi-4/
Pt-10 IJP(c) JD/WW/GG
ACCESSION NR: AP5001833 S/0056/64/047/006/2095/2101

37
34
B

AUTHOR: Borovik-Romanov, A. S.; Rudashevskiy, Ye G.

21

TITLE: Effect of spontaneous striction on antiferromagnetic resonance in hematite

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 6, 1964, 2095-2101

TOPIC TAGS: spontaneous striction, antiferromagnetism, resonance line, line shift, magnetic structure

ABSTRACT: An experimental study was made of the effect of compression and dilatation in the basal plane on the variation of the antiferromagnetic resonance frequency in hematite with the external magnetic field. The tested synthetic hematite single crystals were grown by M. Vihr at the Institute of Solid State Physics of the Czechoslovak Academy of Sciences. The measurements were made with a direct-amplification magnetic spectrometer at wavelengths 0.86, 1.2, and 1.4 cm. The test set-up is described in detail. The results show that upon deformation of the specimen in the basal plane the resonance line shifts in a direction that

Card 1/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 41344-65
ACCESSION NR: AP5001833

3

depends on the mutual orientation of the applied force and the external magnetic field. To interpret the results, the authors calculate the energy spectrum of the crystal with account of the elastic and magnetoelastic energies, on the basis of the complete Hamiltonian for rhombohedral antiferromagnets possessir weak ferromagnetism. It is shown that the resonance spectrum of such a magnetic structure may have a gap, independent of the directions, which can be changed by deforming the crystal perpendicular to the threefold axis. The theoretical results agree with experiment. "The authors thank Academician P. L. Kapitsa for continuous interest and I. Ye. Dzyaloshinskiy for useful discussions." Orig. art. has: 2 figures and 7 formulas.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physical Problems, Academy of Sciences SSSR)

SUBMITTED: 24Jul64 ENCL: 00

SUB CODE: SS, EM NR REF SOV: 007 OTHER: 005

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ACCESSION NR: AP4012532 S/0056/64/046/001/0134/0136

AUTHOR: Rudashevskiy, Ye. G.

TITLE: Antiferromagnetic resonance in cobalt carbonate

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 134-136

TOPIC TAGS: cobalt carbonate, antiferromagnetic resonance, spin wave spectrum, magnetic structure, uniform precession, antiferromagnetic resonance line width

ABSTRACT: To check on the spin-wave spectrum of the magnetic structure of $CoCO_3$, experiments were set up permitting observation of antiferromagnetic resonance in the case of uniform precession in the frequency range from 10 to 35 Gc/sec and at temperatures from 4.2 to 1.5K. The single-crystal specimens were placed in cylindrical cavities operating in the H_{011} mode and were tested with the microwave

Card 1/4

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ACCESSION NR: AP4012532

field either in the basal plane or along the three-fold axis perpendicular to the basal plane. The results are described satisfactorily by the formula $(\nu/\gamma)^2 = H(H + H_D)$ (H -- external magnetic field, $H_D = \sigma_0/\chi\gamma$, other symbols standard). A value H_D = 27 kOe is obtained from static measurements. The line width varies slightly with frequency (from ~100 Oe at 10 Gc/sec), but no line shift is observed with variation of the temperature. "The author is deeply grateful to P. L. Kapitsa for interest in the work, to A. S. Borovik-Romanov for continuous attention and guidance, to L. A. Prozorova for helpful advice, to O. N. Trishkin for help with the experiments, and to N. Yu. Ikornikova of the Institut kristallografii AN SSSR (Crystallography Institute AN SSSR) for supplying the single crystals." Orig. art. has: 1 figure and 2 formulas.

ASSOCIATION: Institut fizicheskikh problem AN SSSR (Institute of Physics Problems, AN SSSR)

Card 2/42 Subm: 17 Jul 63

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

BOROVIK-ROMANOV, A. S.; KREYNES, N. M.; PROZOROVA, L. A.; RUDASHEVSKIY, Ye. G.

"The electron resonance in rhombohedral antiferromagnets with weak ferromagnetism."

report submitted for Intl Conf on Magnetism, Nottingham, UK, 6-13 Sep 64.

Inst of Physical Problems, Moscow.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAT, K.D.

Antibiotic action of substances in higher plants, particularly in Alliaria officinalis and other leeklike plants on Bacterium pyocyaneum. J. Hyg. Epidem., Praha 1 no.2:213-224 1957.

1. Aus dem Hygienischen Institut der Humboldt-Universitat zu Berlin.

(PSEUDOMONAS AERUGINOSA, eff. of drugs on extracts from leeklike plants)

(PLANTS, extracts leeklike plants, eff. on Pseudomonas aeruginosa)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKAYA, A.

Copying progressive practices is the law of life in rural schools. Prof.-tekh.obr. 22 no.11:23 N '65. (MIRA 18:12)

1. Starshiy insh. Krymskogo oblastnogo upravleniya professional'no-tekhnicheskogo obrazovaniya.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKAYA, A. B., Cand Tech Sci -- (diss) "Chemical and commodity characteristics of Hucul brynza [sheep cheese] and the biochemical processes occurring in it during ripening and storage." Mos, 1956. 15 pp (Min of ~~Commerce~~ Trade USSR, Mos Inst of National Economy im G. V. Plekhanov), 100 copies (KL, 1-58, 119)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKAYA, A. B.

RUDAVSKAYA, A. B.: "The chemical-commercial characteristics of Gutsul sheep-milk cheese and the biochemical processes occurring in it in maturation and keeping." Min Trade USSR. Moscow Inst of National Economy imeni G. V. Plekhanov. Moscow, 1956.
(Dissertation for the degree of doctor in Technical Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKAYA, V.A.

Cambrian hystrichospaeridae in the southern part of the Siberian Platform. Trudy VNIGRI no.239:95-107 '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKAYA, V.A.; TIMOFEYEV, B.V.

Stratigraphy of Cambrian sediments in the cis-Baikal region.
Trudy VNIGRI no.220. Geol. sbor. no.8:136-151 '63.
(MIRA 17:3)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

KRIVONOS, N.F., inzh.; RUDAVSKIY, E.Ya., inzh.; LEVIN, G.A., inzh.; GRISHCHENKO, I.M., inzh.

Dependence of unit losses in electrical steel on the force of compression of packs and incremental weight of lacquer coatings. Energ. i elektrotekh. prom. no.1:59-60 Ja-Mr '64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

KRIVONOS, N.F., inzh.; RUDAVSKIY, E.Ya. inzh.; LEVIN, G.A., inzh.; GRISHCHENKO, I.M., inzh.

Dependence of unit losses in electrical steel on the force of compression of packs and incremental weight of lacquer coatings. Energ. i elektrotekh. prom. no.1:59-60 Ja-Mr'64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 22915-66 EWT(1)/EWT(m)/EPF (n)-2/ETC(m)-6 JD/WW/GG
ACC NR: AP6006798 SOURCE CODE: UR/0386/66/003/001/0032/0035

AUTHORS: Yesel'son, B. N.; Dyumin, N. Ye.; Rudavskiy, E. Ya.; Serbin, I. A.

ORG: Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR)

TITLE: Experimental observation of fourth sound in He^3-He^4 solutions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 32-35

TOPIC TAGS: sound propagation, liquid helium, quantum liquid, superfluidity

ABSTRACT: The purpose of the investigation was to check experimentally the existence of fourth sound, a special type of wave propagating only through the superfluid component while the normal component remains immobile, which was observed experimentally in liquid He^4 and whose existence in He^3-He^4 solutions was recently considered theoretically by D. G. Sanikidze and D. M. Chernikova (ZhETF v. 46,

Card 1/3

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L 22915-66
ACC NR: AP6006798

1123, 1964). The main part of the apparatus was a cylindrical resonator, 20 mm in diameter and 10 mm long, filled with a rouge filter consisting of particles ~0.5 μ in size compressed to 40 kg/cm^2 (filter perosity ~60%). The sound transmitter and receiver were placed on opposite sides of the filter. The resonator was placed in a special vessel in which the investigated solution was condensed. The vessel itself was placed in a bath of He^4, the temperature of which was lowered by pumping on helium vapor. Pulses with rise time 0.1 μsec, repetition frequency 200 cps, duration 2 μsec, and amplitude 400 V were fed from the blocking generator to the transmitter, which was located in the lower part of the receiver. The speed of the fourth sound could be determined from measured time interval necessary for the pulse to traverse the length of the filter. Multiple scattering was allowed for by means of an empirical formula. The experimental results were found to be in fully satisfactory agreement with theory of D. G. Sanikidze and D. M. Chernikova. Tentative measurements of the absorption coefficient indicate that it increases rapidly with temperature, making measurements near λ point difficult. Work is now continuing in a broader temperature concentration range,

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 22915-66
ACC NR: AP6006798

with an aim at obtaining information on the behavior of He^3 and He^4 atoms in narrow channels. The authors thank D. G. Sanikidze for useful discussions conducted with the organization of the research. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 15Nov65/ ORIG REF: 003/ OTH REF: 008

Card 3/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ACC NR: AP/[illegible] SOURCE CODE: UR/0056/66/051/006/1665/1668

AUTHOR: Yesel'son, B. N.; Dyumin, N. Ye.; Rudayskiy, E. Ya.; Serbin, I. A.

ORG: Physicotechnical Institute of Low Temperatures, Academy of Sciences, Ukrainian SSR (Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk Ukrainskoy SSR)

TITLE: Velocity of first sound in He^3 - He^4 solutions

SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1665-1668

TOPIC TAGS: liquid helium, sound propagation, acoustic speed, temperature dependence, superfluidity

ABSTRACT: The authors describe measurements of the velocity of first sound in solutions of helium isotopes with He^3 content up to 20% in the temperature range 1.6 - 4.0K. The purpose of the investigation was to determine various properties of the solutions, especially the velocity of fourth sound. A pulsed ultrasonic method was used for the velocity determination. The carrier frequency was 1 MHz, the pulse duration was 30 μsec, and the pulse repetition frequency was 200 Hz. The results show that at constant temperature the sound velocity varies linearly with the He^3 concentration. An explanation is proposed for this linearity. The temperature dependence of the velocity of first sound shows clearly the singularities corresponding to the transition of the solution into the superfluid state, and the values obtained for the λ-point temperatures from these temperature dependences agrees well with the published data. Orig. art. has: 2 figures, 5 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 18Jul66/ ORIG REF: 002/ OTH REF: 005

Card 1/1

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.

Drillability and explosibility of enclosing rocks in the Kugitang deposit. Trudy MGRI 32:28-37 '58. (MIRA 12:10)
(Kugitang Tau--Boring)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.; SVETLITSKAYA, V.I.

Economic evaluation of a reaction-turbine method for drilling mine shafts. Trudy VNIIBT no.10:120-126 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.

Boring holes in dolomitized limestones by means of electric drills with hydraulic feed. Trudy MGRI 34:70-77 '59. (MIRA 13:12)

(Boring) (Limestone) (Rock drills)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I. Ye., inzh.

Some results of investigating power auger drilling for the making of boreholes. Izv.vys.ucheb.zav.; gor.zhur. no.4:74-80 '59. (MIRA 13:5)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze. Rekomendovana kafedroy gornogo dela.
(Boring machinery--Electric driving)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I. Ye., Cand Tech Sci (diss) -- "The establishment of rational limits for the application of the electrorotary method of drilling balst holes in performing mine-prospecting work". Moscow, 1960. 19 pp (Min Higher and Inter Spec Educ RSFSR, Moscow Geol-Prospecting Inst im S. Ordzhonikidze), 120 copies (KL, No 15, 1960, 136)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

VOLKOV, V.N.; RUDAVSKIY, I.Ye.

Standardization of hard-faces drill birs. Izv.vys.ucheb.zav.; geol. i razv. 4 no.12:103-109 D '61. (MIRA 15:2)

1. Moskovskiy geolograzvedochnyy institut imeni S.Ordzhonikidze.
(Boring machinery)(Hard facing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

VOLKOV, V.N.; ZARUBINA, A.I.; RUDAVSKIY, I.Ye.

Economic evaluation of new hard alloy bits, based on the example of drilling exploratory holes in the Kuznetsk Basin. Trudy MGRI 39:161-165 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.

Adjustable attachment for column electric drills. Izv. vys. ucheb. zav.; gor. zhur. 5 no.3:169-171 '62. (MIRA 15:7)
(Boring machinery—Equipment and supplies)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.

Cutters for rotary drilling of boreholes. Izv. vys. ucheb. zav.; gor. zhur. 5 no.3:167-168 '62. (MIRA 15:7)
(Boring machinery)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.

Testing rock drills used in rotary drilling of boreholes of a new shape and design. Izv.vys.ucheb.zav.; geol.i razv. 2 no.10:111-116 O '59. (MIRA 13:6)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.
(Rock drills--Testing)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, I.Ye.

Studying the electric rotary method for drilling exploratory holes. Izv. vys. ucheb. zav.; geol. i razv. 1 no.7:118-127 Jl '58. (MIRA 12:8)

1.Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze, Kafedra gornogo dela.
(Boring)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, V.P. [Rudavs'kyi, V.P.]

New herbicides in foreign countries. Khim.prom. [Ukr.] no.1:87-88 Ja-Mr '64. (MIRA 17:3)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

TSYBUL'SKAYA, G.N.; RUDAVSKIY, V.P.; KHASKIN, I.G.

Herbicidal activity of some aromatic derivatives of trichloroacetamide. Fiziol. rast. 11 no.2:171-174 Mr-Ap '64. (MIRA 17:4)

1. Scientific Research Institute of State Oil and Chemistry Committee, Kiyev.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 52795-65 EWT(m)/EPF(c)/EWP(j)/EWA(c) Pc-4/Pr-4 RPL RM

ACCESSION NR: AP5016192 UR/0079/64/034/012/3959/3963

27
26
B

AUTHOR: Derkach, G. I.; Rudavskiy, V. P.; Dregval', G. F.

TITLE: Phosphorylated N-Aryltrichloroacetamidines

SOURCE: Zhurnal obshchey khimii, v. 34, no. 12, 1964, 3959-3963

TOPIC TAGS: organic phosphorus compound, chlorinated organic compound, organic synthetic process, chloride, amine, organic amide

Abstract: N-Aryltrichloroacetamidines react with phosphorus pentachloride to form trichlorophosphazo-N-aryliminotrichloroacetyls. The products are similar in their chemical properties to trichlorophosphazo-N-arylsulfonyliminoaroyls and trichlorophosphazocarbacyls. They react readily with anhydrous formic acid, to form N-dichlorophosphonyl-N'-aryltrichloroacetamidines, which upon further hydrolysis with water are converted to N-phosphono-N'-aryltrichloroacetamidines. The reaction of trichlorophosphazo-N-aryliminotrichloroacetyls with phenols in the presence of triethylamine produces triaroxyphosphazo-N-aryliminotrichloroacetyls, hydrolysis of which results in the formation of N-diarylphosphono-N'-aryltrichloroacetamidines, which are similar in chemical properties to

Card 1/2

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L 52795-65

ACCESSION NR: AP5016192

N-diarylphosphono-N'-acylarenamidines and diesters of aroylamidophosphoric acids. N-diarylphosphono-N'-aryltrichloroacetamidines are also prepared by reaction of N-dichlorophosphonyl-N'-aryltrichloroacetamidines with phenols in the presence of triethylamine and by reaction of N-arylphosphono-iminotrichloroacetyl chlorides with aromatic amines. Under the action of excess methanol on N-dichlorophosphonyl-N'-aryltrichloroacetamidines, the amide group is cleaved, and the dimethyl ester of trichloroacetamido-phosphoric acid is formed. Orig. art. has 7 formulas, and 3 tables.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR (Institute of Organic Chemistry, Academy of Sciences, Ukrainian SSR)

SUBMITTED: 30Sep64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 006 OTHER: 001 JPRS

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAVSKIY, V.P. [Rudavs'kyi, V.P.]

Obtaining salts of trichloroacetic acid from tetrachloroethylene. Khim. prom.[Ukr.] no.1:22-23 Ja-Mr '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 3907-66 EWT(1)/EWT(m)/EWA(b)-2 JK

ACCESSION NR: AP5023548 UR/0220/65/034/004/0715/0719

632.934.1

44,55 44,55 32

B

AUTHOR: Shomova, Ye. A.; Rudavskiy, V. P.; Khaskin, I. G. 44,55

TITLE: Fungicidal activity of some aromatic derivatives of trichloroacetamide 44,55

SOURCE: Mikrobiologiya, v. 34, no. 4, 1965, 715-719

TOPIC TAGS: fungicide, aromatic compound, fungus, microbiology

ABSTRACT: The action of trichloroacetamide and 19 aromatic derivatives was tested on five phytopathogenic fungi--*Fusarium oxysporum*, *Botrytis cinerea*, *Alternaria radicina*, *Aspergillus niger*, and *Rhizoctania violacea*. The fungicidal activity of these N-aryl-trichloroacetamides varies with their chemical structure. Unsubstituted trichloroacetamide in an 0.1% concentration suppressed the growth of all the above fungi; the compound obtained by substituting a phenyl group for one hydrogen atom was active in as low as a 0.01% concentration. But with the introduction of substitutes into the benzene ring of trichloroacetanylide, the fungicidal activity of the amides generally tended to decrease. The most active compound was produced by adding a nitro group and chlorine to the benzene ring of trichloroacetanylide.

Card 1/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 3907-66

ACCESSION NR: AP5023548

Presumably the fungicidal activity of the unsubstituted trichloroacetamide and its aromatic derivatives is due to their ability to participate in transacylation reactions. The radical of trichloroacetic acid in the amides competes with the radicals of the acid metabolites, displacing the latter from the amide bonds of certain biological systems in the fungi. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 11Feb64 ENCL: 00 SUB CODE: OC, GC, LS

NO REF SOV: 000 OTHER: 005

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

DERKACH, G.I., RUDAVSKIY, V.P.

N-phosphorylated trichloroacetamidine derivatives. Zhur. ob. khim. 35 no.7:1202-1206 Jl '65. (MIRA 18:8)

1. Institut organicheskoy khimii AN UkrSSR.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

DERKACH, G.I.; RUDAVSKIY, V.P.

Phosphorylated derivatives of amides of dichloroacetic and α,α -dichloropropionic acids. Zhur.ob.khim. 35 no.12:2200-2204 D '65. (MIRA 19:1)

1. Institut organicheskoy khimii AN UkrSSR. Submitted December 25, 1964.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 29009-66 EWT(m)/EWP(j) RM

ACC NR: AP6016699 SOURCE CODE: UR/0079/65/035/012/2200/2204

AUTHOR: Derkach, G. I.; Rudavskiy, V. P.

ORG: Institute of Organic Chemistry, AN UkrSSR (Institut organicheskoy khimii AN UkrSSR)

18
B

TITLE: Phosphorylated derivatives of the amides of dichloroacetic and alpha, alpha-dichloroproprionic acids

SOURCE: Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2200-2204

TOPIC TAGS: chlorinated organic compound, carboxylic acid, phosphorus chloride, hydrolysis, acetic acid, acetone, nonmetallic organic derivative, carboxylic acid chloride, organic amide

ABSTRACT: The amides of the above acids react with phosphorus pentachloride to form trichlorophosphazocarbacyls:

$$CH_3CCl_2CONH_2 + PCl_5 \longrightarrow 2HCl + CH_3CCl_2CON\ PCl_3.$$

The hydrolysis of trichlorophosphazodichloroacetyls and alpha,beta-dichloroproprionyl with anhydrous acetic acid or water in acetone results in dichloracetyl- and alpha,beta-dichloropropionylamidophosphoric acids. The corresponding diesters of diamides of the acids are obtained by the action of alcohols, phenols, thiophenols, or amines on the dichlorides of these acids.

Card 1/2

UDC: 546.185 : 547.29

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

L 25609-66

ACC NR: AP6016699

The acid chloride of N-dichlorophosphonylimino-alpha,alpha-dichloropropionic acid is obtained by treating phosphorus pentachloride with alpha-alpha-dichloropropionylamidophosphoric acid dichloride. Twenty-four derivatives of chloropropionylamidophosphoric acids, $RCONHPOX_2$, where $R = CH_3CCl_2$ and X equals various groups, were obtained and characterized. Twenty-three derivatives of dichloroacetylamidophosphoric acid, $CHCl_2CONHPOX_2$, were obtained and characterized. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 25Dec64 / ORIG REF: 004 / OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

18(7) PHASE I BOOK EXPLOITATION SOV/2296

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Korroziya i zashchita metallov v mashinostroyenii (Corrosion and Protection of Metals in the Machine-building Industry) Moscow, Mashgiz, 1959. 347 p. (Series: Its: [Sbornik] kn. 92) 3,500 copies printed.

Ed.: A. V. Ryabchenkov, Doctor of Chemical Sciences, Professor; Ed. of Publishing House: A. I. Sirotin, Engineer; Tech. Ed.: B. I. Model'; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for designers, technologists, and industrial and research workers concerned with corrosion and corrosion protection of metals.

COVERAGE: This collection of articles deals with problems of corrosion and metal protection under investigation at TsNIITMASh during the past two years. The articles discuss stress corrosion, intergranular corrosion, scale and heat resistance of austenitic steels in gaseous media, protective coating, fretting corrosion, and resistance of metals to cavitation. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Nikiforova, V.M., N.I. Yeremin [Candidate of Physical and Mathematical Sciences], N.A. Reshetkina, and A.V. Yevgrafov [Engineer]. Method of Determining the Tendency of Steel Toward Intergranular Corrosion by Utilizing High-frequency Resonance Instruments 83

PART II. GAS CORROSION AND ITS EFFECT ON THE HEAT-RESISTANCE PROPERTIES OF AUSTENITIC STEELS

Davidovskaya, Ye.A. [Candidate of Technical Sciences], and L.P. Kestel' [Engineer]. Scale-resisting Alloy Steels in Different Gas Media 95
The authors discuss the mechanism of high-temperature oxidation of irons and steels in gas media, including temperature, oxide films of austenitic steels, and rates of corrosion.

Kestel', L.P., and Ye.A. Davidovskaya. Effect of a Concentration of Sulfur Dioxide and Steam on the Corrosion of Austenitic Steels at High Temperatures 109

Davidovskaya, Ye.A. Long-time Rupture Strength of Alloy Steels in Superheated Steam 125
The author investigates the behavior of EYaIT and EI724 steels under the effect of steam at 575° to 610°C.

Maksimov, A.I. [Engineer], P.V. Sorokin [Engineer], and S.G. Vedenkin, [Professor]. Effect of Corrosive Gas Media on Long-time Rupture Strength of Austenitic Sheet Steels 139
The present investigation was made by the authors to determine the effect of fuel combustion products on three different cast steels used in gas turbine construction.

Nikiforova, V.M., N.A. Reshetkina, and V.S. Smurov [Engineer]. Study of Decay and Corrosion Resistance of Various Materials for Carbon Bisulfide Retorts Under Operating Conditions 158
The authors make recommendations for the most suitable metals for inner and outer linings of carbon bisulfide retorts.

Kovalev, Ye.A. [Engineer], and S.G. Vedenkin. Effect of Vanadium Contained in Heavy Fuel on Scale and Heat Resistance of Alloys Used in Gas Turbines 179
The authors present a survey of Soviet and non-Soviet literature on this subject and discuss methods of investigation.

PART III. PROTECTIVE COATINGS

Rykova, A.V. [Candidate of Technical Sciences], E.F. Zommer [Candidate of Technical Science], V.Ye. Khromov [Engineer] and Ye.I. Ruday [Senior Technician]. Investigating the Possibility of Applying Wear-resistant Chrome Plating to Worm Gears 210
Investigation is made on the basis of the similarity to the process of porous chrome plating of piston rings, cylinder sleeves of combustion engines, and other parts working under high friction.

Khromov, V.Ye. Effect of Chrome Plating on the Wear Resistance of Mating parts 224
The author studies the effect of cathodic current density and temperature of the electrolyte on the wear resistance of the deposit and the plated insert.

Card 5/7

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, B.I.

Clinical aspects of the lethargic form of present-day epidemic encephalitis. Zhur. nevr. i psikh. 64 no.3:334-339 '64. (MIRA 17:5)

1. Kafedra nervnykh bolezney (zaveduyushchiy - prof. P.M. Al'perovich) Vinnitskogo meditsinskogo instituta i nevrologicheskoye otdeleniye psikhonevrologicheskoy bol'nitsy (glavnyy vrach R.Ya. Mar'yanchik).

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

AL'PEROVICH, P.M.; BILYK, V.D.; RUDAYA, B.I.

Clinical aspects of the hyperkinetic form of present-day epidemic encephalitis. Zhur. nevr. i psikh. 64 no.3:340-345 '64. (MIRA 17:5)

1. Kafedra nervnykh bolezney (zaveduyushchiy - prof. P.M. Al'perovich) meditsinskogo instituta, nevrologicheskoye otdeleniye Vinnitskoy psikhonevrologicheskoy bol'nitsy (glavnyy vrach R.Ya. Mar'yanchik).

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

GORIIOVSKAYA, [illegible], kand. med. nauk; [illegible], D.V.

Multiple chondromatosis of the bones in a twin. Ortop., travm. i protez. no.9:84-86 '62. (MIRA 17:11)

1. Iz otdeleniya ortopedii, travmatologii i detskoy khirurgii (zav. - prof. I.L. Zaychenko) i rentgenologicheskogo otdeleniya (zav. - dotsent Ya. A. Krishtal'skaya) L'vovskoy oblastnoy bol'nitsy (glavnyy vrach - N.I. Besedin).

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, I.I.; DROZDOV, A.L., inzh., retsenzent; BULATOV, B.N., inzh., retsenzent; SOBAKIN, V.V., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Electrical equipment of diesel locomotives] Elektricheskoe oborudovanie teplovozov. Izd.2. Moskva, Transzheldorizdat, 1963. 271 p. (MIRA 16:10)
(Diesel locomotive--Electric equipment)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, K.I.; KOVNER, G.M.; KUZ'MICH, V.D.

Increasing the power of diesel locomotive generators by improvement of their ventilation. Trudy MIIT no.110:5-25 '59.
(MIRA 13:4)

(Diesel locomotives) (Electric generators)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

PRIVALOV, V.V., kand.tekhn.nauk; RUDAYA, K.I., kand.tekhn.nauk

Answers to readers' questions. Elek.i tepl.tiaga 3 no.5 42-43 My '59. (MIRA 12:9)

(Locomotives)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

S/196/62/000/004/017/023
E194/E155

AUTHORS: Rudaya, K.I., and Kostromin, A.M.

TITLE: A semiconductor contactless power controller for a diesel-electric locomotive

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.4, 1962, 5, abstract 4 L19. (Elektr. i teplovozn. tyaga, no.8, 1961, 40-41)

TEXT: Regulators in the automatic power control systems of diesel-electric locomotives have serious defects. The tachometer circuit of locomotive type ТЭ3 (TE3) assumes a considerable drop in the diesel engine speed, and has unstable characteristics because of unstable operation of the tachogenerator. The controller of diesel-electric locomotive type ТЭ10 (TE10) uses a reliable sliding rheostat. Vibration regulators have moving electrical contacts. The diesel-electric locomotive laboratory of the MIIT has developed a contactless regulator based on semiconductors which is free from these defects. One of the principal circuit components is a semiconducting triode, connected in circuit with a common emitter to ensure maximum

Card 1/4

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

A semiconductor contactless power ... S/196/62/000/004/017/023
E194/E155

amplification of the current and power control signals. A circuit diagram for use with transistor type П4Г (P4G) and its static characteristic are given, and also the schematic diagram of a new regulator including the method of connecting it into the generator field circuit ВГ of a diesel-electric locomotive (see circuit diagram). The triode П is connected in circuit with a common emitter in the independent field winding circuit H-HH of the exciter B and acts as a variable resistance, the value of which depends on the signal ΔE at the output from the convertor UП. This convertor has a solenoid-type armature with windings in transformer connection and is mechanically connected to the shaft of the servo-motor of the regulator which runs at the diesel engine speed and it is supplied at a voltage u. A rectifier bridge B is connected between the convertor and the triode. Displacement of the shaft, and with it the armature, causes a corresponding voltage change ΔE at the convertor output. This alters the control $I_б$ and commutator I_k currents of the triode П, of the exciter and generator fields. As a result the generator output is made to correspond

Card 2/4

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

A semiconductor contactless power ... S/196/62/000/004/017/023
E194/E155

with the diesel output at a given shaft speed. The interlocking BB' disconnects the controller on opening the contactor BB, if, for example, the locomotive wheels are slipping or if there is an earth fault in the power circuits. The resistance R3 ensures that all the accumulators are uniformly charged. Moreover, the circuit contains further resistances R1 and R2. Operation of the controller is described in application to a diesel-electric locomotive type TE3. The regulator was tested in the institute's laboratory on a diesel-generator set from this locomotive. The experimental data are used to construct curves of generator output, of current in the independent winding of the exciter and of triode commutator current as a function of the main generator current both with and without the regulator. The regulator is reliable in service and is notable for accurate control, simplicity of adjustment and cheapness. It can be installed on existing locomotives without many modifications.

[Abstractor's note: Complete translation.]

Card 3/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, K.I., dotsent; KOSTROMIN, A.M., inzh.; LISITSYN, Ye.Y., inzh.

Studying the performance of contactless regulators. Trudy MIIT no.151:135-152 '62. (MIRA 16:2)
(Diesel locomotives) (Electric controllers)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

HUDAYA, Kseniya Ivanovna; GALANOVA, M.S., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Make up and repair of diesel locomotives] Ustroistvo i remont teplovozov. Moskva, Gos. transp. zhel-dor. izd-vo. Pt.2: [Electrical equipment] Elektricheskoe oborudovanie. 1958. 255 p. (Diesel locomotives—Maintenance and repair) (MIRA 11:10)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

KOLAYA, K.I., dotsent; LISITSYN, Ye.V., inzh.; KOSTROMIN, A.N., inzh.

System for the additional regulation of the diesel generator plant of diesel locomotives with the use of semiconductors. Trudy MIIT no.169:106-114 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

GOROKHOV, N.V.; RUDAYA, K.I.; DOMANITSKIY, S.M.

Study of systems with magnetic amplifiers. Trudy TSNII MPS no.87:98-132 '54. (MIRA 8:3)
(Diesel locomotives)(Automatic control)
(Magnetic amplifiers)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, K.I., dotsent; KUZ'MICH, V.D., inzh.

Filtering of the air cooling the main generators of diesel locomotives. Trudy MIIT no.151:171-175 '62. (MIRA 16:2)
(Air filters) (Diesel locomotives)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

SOV-21-58-4-28/29

AUTHORS: Novikov, B.G., Moshkov, Ye.A., and Rudaya, L.B.

TITLE: Intensity of Reproduction of Domestic and Wild Birds Under Conditions of a Varying Rationing of Light (Intensivnost' razmnozheniya domashnikh i dikikh ptits v usloviyakh razlichnogo svetovogo dnya)

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 4, pp 464-466 (USSR)

ABSTRACT: A great deal of attention has been paid recently to the study of the effect of light on the sexual functions and growing processes of animals. Some authors, on the basis of studying the effects of a one-phase and a two-phase daily light rhythmus, came to a conclusion that the latter accelerates the sexual maturing and intensifies egg-laying of hens. The authors' investigations have not confirmed these results. They present a comparative analysis of the effect of two-phase daily light rhythmus and a continuous increased light day on the function of the sexual gland of bronze turkey hens and cock sparrows. Investigations showed that under conditions of a two-phase daily light ration there is a considerable decrease in egg laying in young turkey hens as compared with the continuous increased light day. In older bronze turkey hens, no difference in egg laying was dis-

Card 1/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

SOV-21-58-4-28/29

Intensity of Reproduction of Domestics and Wild Birds Under Conditions of a Varying Light Rationing

covered. In the cock sparrow, however, the cycle of testicular activity was somewhat contracted under the effect of a two-phase daily light rhythmus.
There are 2 tables and 4 Soviet references.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet i institut zoologii AN UkrSSR (Kiyev State University and Institute of Zoology of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, A.P. Markevich

SUBMITTED: September 11, 1957

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Birds--Reproduction 2. Birds--Growth 3. Birds--Physiology 4. Artificial daylight--Physiological effects

Card 2/2

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ZOSIMOVICH, D.P.; ZAYATS, A.I.; RUDAYA, L.K.

Colorimetric study of modification transformations in chromium sulfate electrolytes. Ukr.khim.zhur. 28 no.2:150-156 '62. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii AN USSR.
(Chromium plating) (Chromium compounds)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ABEL'SKAYA, N. B.; GRACHEVA, Ye. G.; YERSHOVA, Z. V.; ZVEREV, V. S.; MASLOVSKAYA, V. V.; RUDAYA, L. Ya.

Preparation of long-lived Bi^{210}. Radiokhimiia 4 no.3:377-378 '62. (MIRA 15:10)

(Bismuth--Isotopes)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

MATEVOSYAN, R.O.; STEPANOV, A.P.; STASHKOV, L.I.; RUDAYA, M.N.

Chemistry of free radicals of the hydrazine series. Part 31: Relative stability of some hydrazyl radicals in dioxane. Zhur. org. khim. 1 no.11:1922-1927 N '65. (MIRA 18:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova, Sverdlovsk. Submitted November 27, 1964.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, O. I. and POIDO, A. A.

Teplovozy: Utverzhdeno v kachestve uchebnika dlia podgotovki teplovoznykh mashinistov v trekhgodichnykh shkolakh. (Redaktor V. A. Drobinskii) Moskva, Transzheidorizdat, 1949. 494 p. illus. (Uchebniki dlia shkol mashinistov locomotivov)

Diesel locomotives.

DLC: TJ619.P65

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

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

KHOKHLOV, T., direktor-podpolkovnik tyagi.; RUDAYA, R., inzh.-kapitan tyagi

Characteristics of the da series diesel locomotive. Zhel. dor. transp. no.1:49-56 '47. (MIRA 13:2)
(Diesel locomotives)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

GERMANOVA, K.I.; GONCHARSKAYA, T.Ya.; DELOVA, I.D.; IL'INSKAYA, S.A.; MEL'NIKOVA, A.A.; ORESHNIKOVA, T.P.; RESHETOV, P.D.; RUDAYA, S.D.; SINITSYNA, Z.T.; SOLOV'YEVA, N.K.; KHOKHLOV, A.S.

Components and antiviral properties of some streptothricin antibiotics. Antibiotiki 10 no.2:117-122 F '65.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov i Institut khimii prirodnykh soyedineniy AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

SOLOV'YEVA, N.K.; TAYG, M.M.; SINGAL, E.M.; RUDAYA, S.M.

Some data on the micromorphology of Actinomyces. Antibiotiki 9 no.2:115-121 F '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S. M.: Master Biol Sci (diss) -- "The comparative characteristics of strains of Act. rimosus (producing oxytetracycline) and their experimentally obtained variants". Moscow, 1959, published by the Acad Sci USSR. 18 pp (Acad Sci USSR, Inst of Microbiology), 185 copies (KL, No 16, 1959, 107)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

HUDAYA, S.M.

Comparative characteristics of cultures of Act. rimosus (oxytetracycline-producing organism) and of its variants. Antibiotiki 3 no.2:14-17 Mr-Ap '58. (MIRA 12:11)

1. Otdel novykh antibiotikov Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(ACTINOMYCES, culture,
rimosus, comparison of variants & oxytetracycline synthesis (Rus))
(OXYTETRACYCLINE, metabolism,
Actinoyces rimosus synthesis, comparison of variants (Rus))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S.M.; CHUDNOVSKAYA, Yu.K.

Evaluation of a methodology for the determination of the antibiotic properties of actinomycetes. Antibiotiki 8 no.5:420-432 My'63 (MIRA 17:3)

1. Laboratoriya novykh antibiotikov (zav. - N.K. Solov'yeva) Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ANTIBIOTICS

"Morphological, Cultural, and Antagonistic Properties of Verticillate Actinomycetes", by N.K. Solov'yeva, S.M. Rudaya, M.M. Tayg, and N.P. Fadeyeva, All-Union Scientific Research Institute of Antibiotics, Antibiotiki, No 2, March-April 1957, pp 21-26.

Of the antagonistic Actinomycetes isolated from the soil of Soviet Central Asia, a great number have a verticillate structure of the spore-bearing hyphae. The yield of Pamir soils was especially abundant.

Only 4 varieties of Actinomycetes were thus far described: first "A. reticuli", by Waksman, in 1916; in 1919, again by Waksman and others, called "A. reticuli ruber"; in 1938, A.Ye. Kriss isolated an A. which he called "verticillatus" from the trans-Volga soil; finally, in 1941, N.A. Krasil'nikov described a new "A. circulatus". In recent years, Japanese researchers have also isolated a number of verticillate Actinomycetes having antifungal action, and gave them their own names, although these cultures are apparently but variants of Waksman's "A. reticuli".

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The authors made a thorough investigation of the Actinomycetes in question from the point of view of its morphological, cultural, physiological, and antibiotic properties. In all, 85 verticillate cultures were studied, most of them originating from the Pamirs and belonging to the A. verticillatus group. The rest were composed of A. circulatus, Str. reticuli, Str. rubrireticuli, etc.

The A. of the 1st group was found to have specific antifungal properties, especially in inhibiting the growth of the Candida albicans. In the 2nd group, the antifungal action was either totally absent or very weak.

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S.M.; SOLOV'YEVA, N.K.

Formation of a crimson pigment in Actinomyces rimosus. Mikrobiologiia 29 no.5:766-769 S-O '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.
(ACTINOMYCES) (PIGMENTS)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S.M.; SOLOV'YEVA, N.K.; ROZENFEL'D, G.S.; KHOKHLOV, A.S.
BYCHKOVA, M.M.

Formation, isolation and primary chemical purification of antibiotic no. 660-15, related to albofungin. Antibiotiki 8 no.2:99-103 F'63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov i Institut khimii prirodnykh soyedineniy AN SSSR.
(ANTIBIOTICS) (FUNGICIDES)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

TAYG, M.M.; RUDAYA, S.M.; SOLOV'YEVA, N.K.

Cultivation of actinomycetes from the family Actinoplanaceae. Antibiotiki 7 no.6:483-491 Je '62. (MIRA 15:5)

1. Otdel novykh antibiotikov Vsesoyuznogo nauchno-issledovatel'skogo institut antibiotikov.

(ACTINOMYCES)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S.M.

USSR/ Microbiology. General Microbiology F-1

Abs Jour: Ref Zhur - Biol., No 6, 1958, 24052

Author : Solov'yeva N. K., Rudaya, S. M., Tayg, M. M., Fadeeva, N. P.

Inst : Not given

Title : Morphologo-Cultural and Antagonistic Properties of Verticillate Actinomycetes.

Orig Pub: Antibiotiki, 1957, 2, No 2, 21-26

Abstract: Eighty-five verticil cultures of actinomycetes were studied, isolated chiefly from soils of Pamir. On the basis of the verticillate character of the cultures studied, they are divided into 2 groups; cultures with straight and arranged into verticillate (primary and secondary) sporidifera; cultures with spiral sporifera arranged in verticils. Verticillate cultures with straight sporodifera occur

Card 1/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S.M.

Fluorescence of Actinomyces rimosus [with summary in English]. Mikrobiologiia 27 no.5:588-592 S-O '58 (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

(ACTINOMYCES,
rimosus, luminescence (Rus))
(LUMINESCENCE
of Actinomyces rimosus (Rus))

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA S.M.

F-2

USSR/Microbiology - Antibiosis and Symbiosis, Antibiotics.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14727

Author : Prokof'eva-Bel'govskaya, A.A., Pestereva, G.D., Rudaya, S.M.

Inst : -

Title : Characteristics of Growth and Development of Actinomyces Rimosus in Submerged Antibiotic Production.

Orig Pub : Mikrobiologiya, 1956, 25, No 6, 668-674

Abstract : A study was conducted of the life cycle of 2 strains of A. rimosus, which form terramycin in deep cultures under laboratory and industrial conditions on complex media containing supplementary sources of mineral nitrogen. Depending on the strain and medium used, the character and development of the culture is modified. In conditions favoring a retarded growth a polycyclic development is observed, i.e., an interchange of three vegetative generations of hyphae, which speedily terminate the growth phase by

Card 1/2

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USSR/Microbiology - Antibiosis and Symbiosis, Antibiotics. F-2

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14727

total or partial spore-formation and partial autolysis. Hyphae of different generations markedly vary in morphological structure, protoplasmic condition and ability to form antibiotics. In an intense culture growth a tendency is observed to inhibit spore-formation by the first hypha generation and transition from a polycyclic to a monocyclic type of development.

Card 2/2

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S. M.

SOLOV'YEVA, N.K., SEMENOVA, V.A., DELOVA, I.D., RUDAYA, S.M., IL'INSKAYA, S.A.

Selection of strains of Actinomyces producing anticancer antibiotics. [with summary in English]. Antibiotiki 3 no.1:3-7 Ja-F'58 (MIRA 11:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS,
anti-cancer, selection of productive strain of Actinomyces (Rus))
(ACTINOMYCES,
anti-cancer antibiotics prod. strains, selection (Rus))
(CYTOTOXIC DRUGS,
antibiotics prod. by Actinomyces, selection of productive strains (Rus))

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S. M.

Cytology of Actinomyces. I. Growth and development behavior of Actinomyces rimosus under the conditions of subsurface antibiotic formation. A. A. Prokof'eva-Bel'govskaya, G. D. Pestereva, and S. M. Rudaya (All-Union Sci. Research Inst. Antibiotics, Moscow). *Mikrobiologiya* 25, 668–74 (1956).—In a maize mash, with nitrate N, hyphae of *A. rimosus* in the 1st, 2nd, and sometimes the 3rd generation of vegetative growth pass rapidly through the spore-forming stage, so that the medium contains spores after 10–20 hrs. and until the end of the fermentation. Changes in the protoplasm lead to differences in morphology, cytochem. behavior, and capacity to form antibiotics. Under intensive growth conditions there is a tendency to shift from polycyclic to monocyclic development.

Julian F. Smith

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S.M.

SOLOV'YEVA, N.K.; RUDAYA, S.M.; TAYG, M.M.; FADEYEVA, N.P.

Cultural morphology and antagonistic properties of verticil Actinomycetes [with summary in English] Antibiotiki, 2 no.2:21-26 Mr-Ap '57 (MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ACTINOMYCES
verticil, antibiotic characteristics)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

ROTMISTROV, M.N.; KULIK, G.V.; VASILEVSKAYA, I.A.; MIKHNOVSKAYA, N.D.; GAMALEYA, N.F.; RUDAYA, S.P.

Synthetic antimicrobial substances with antibioticlike properties. Antibiotiki 6 no.2:111-115 F '61. (MIRA 14:5)

1. Kafedra mikrobiologii i antibiotikov (zav. - prof. M.N.Rotmistrov) Kiyevskogo ordena Lenina universiteta imeni T.G.Shevchenko.
(FUNGICIDES) (SALICYLAMIDE)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, S. S. and KUZINA, N. V.

"The Pharmacology of Aminopterin."

report presented at the 142nd meeting of the Pharmacology and Toxicology Section of the Moscow Society of Physiologists, Biochemists and Pharmacologists, 26 Nov. 1957.

Institute of Stomatology, Moscow

(Farmakologiia i Toksikologiia, 21, No. 6, Nov/Dec 58, p. 614)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, V.P.

Effect of aminazin on the organsim in acute blood loss. Akush.i gin. 35 no.6:65-72 N-D '59. (MIRA 13:4)

1. Iz akushersko-ginekologicheskoy kliniki (zaveduyushchiy - zasluzhennyy deyatel' nauki BSSR prof. L.S. Persianinov) Minskogo meditsinskogo instituta.
(CHLORPROMAZINE pharmacol.)
(HEMORRHAGE exper.)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, V.P.

Acute hemorrhage in the late and early postnatal period in women with late toxicosis treated with aminazine. Zdrav. Bel. 6 no.11: 11-14 N '60. (MIRA 13:12)

1. Iz akushersko-ginekologicheskoy kliniki (zaveduyushchiy kafedroy - professor I.M. Starovoytov) Minskogo meditsinskogo instituta. Nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR L.S. Persianinov.
(TOXICOSIS) (HEMORRHAGE, UTERINE) (CHLORPROMAZINE)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYA, V. P.

Cand Med Sci - (diss) "Effect of aminasine on the organism in acute blood loss." Smolensk, 1961. 26 pp; (Ministry of Public Health RSFSR, Smolensk State Medical Inst); 200 copies; free; (KL, 5-61 sup, 205)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

SEREBRYANYY, G.M.; AVGUSTOVSKIY, I.Yu.; RUDAYA, V.V.; GOBERMAN, M.D., otv.red.; PEVZNER, A.S., zav.red.izd-va; OSENKO, L.M., tekhn.red.

[Uniform time and pay standards for construction, assembly, and repair operations in 1960] Edinye normy i rastsenki na stroitel'nye, montazhnye i remontno-stroitel'nye raboty, 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Sbornik 26. [Assembling industrial pipes and pipe fittings] Montazh tekhnologicheskikh truboprovodov i armatury. 1960. 81 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Nosmativno-issledovatel'skaya stantsiya No.14 Ministerstva stroitel'stva RSFSR (for Serebryanyy). 3. TSentral'noye normativno-issledovatel'skoye byuro Ministerstva stroitel'stva RSFSR (for Avgustovskiy). 4. TSentral'noye normativno-issledovatel'skoye byuro Ministerstva stroitel'stva elektrostantsiy (for Rudaya).
(Wages) (Pipe)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

S/137/61/000/010/051/056
A006/A101

AUTHORS: Rykova, A.V., Rudaya, Ye.I.

TITLE: Zinc-phosphate galvanic coating and its protective properties

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 10, 1961, 55, abstract 10I388 (V sb. "Korroziya i zashchita metallov v mashinostr.", TsNIITMASh, v. 92, Moscow, 1959, 232 - 237)

TEXT: The possibility was studied of obtaining Zn-coatings from acid and alkaline zinc-phosphate electrolytes, whose basic components are ZnO and H_3PO_4. The possibility was established of obtaining Zn-deposits, containing P, from acid electrolytes of the following composition (in g/l): ZnO 25 - 50; H_3PO_4 100 - 200, with admixtures of $Al_2(SO_4)_3$ when stirring the electrolyte. The possibility was also found of obtaining these deposits from alkaline electrolytes containing in g/l: ZnO 10, NaOH 20, NaCN 10 and trisodium phosphate 10, without stirring. Zn deposits with fine-crystalline structure were obtained at D_c 6 - 15 amp/dm^2 within 30 - 40 minutes of electrolysis. They were 40 - 50 μ thick and showed high protective properties. A dependence was established of the thickness of the deposited layer, on D_c and the time of electrolysis. The hardness

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S/137/61/000/010/051/056
A006/A101

Zinc-phosphate galvanic coating ...

of the layer varies within 78 - 100, and in case of Ni content attains 330. The layers of the coating are well polished by mechanical means with ГОИ (GOI) paste. Corrosion tests proved that the coating has high protective properties and can be successfully used for the reliable protection of articles under atmospheric conditions.

V. Tarisova

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RYKOVA, A.V., kand. tekhn. nauk; ZOMMER, E.F., kand.tekhn. nauk;
KHROMOV, V.Ye., inzh.; RUDAYA, Ye.I., starshiy tekhnik

Investigating the possibility of using wear-resistant chromium plating in worm-gear transmissions. Trudy TSNIITMASH 92:210-223 '59. (MIRA 12:8)

(Chromium plating) (Gearing, Worm)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RYKOVA, A.V., kand. tekhn. nauk; RUDAYA, Ye.I., starshiy tekhnik

Zinc phosphate plating and its protective properties.
Trudy TSNIITMASH 92:232-237 '59. (MIRA 12:8)
(Zinc phosphates) (Protective coatings)

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

SOV/137-59-3-7191

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 320 (USSR)

AUTHORS: Rykova, A. V., Rudaya, Ye. I.

TITLE: Electroplating With Zinc Containing Phosphorus and its Protective Properties (Gal'vanicheskoye pokrytiye tsinkom, soderzhashchim fosfor, i yego zashchitnyye svoystva)

PERIODICAL: Sb. Kom-t po korrozii i zashchite metallov Vses. sov. nauchno-tekhn. o-v, 1958, Nr 3, pp 108-111

ABSTRACT: The authors established the feasibility of depositing P-containing Zn plating from acid electrolytes (E) consisting (in g/liter) of ZnO 25-50 and H_3PO_4 100-200, with a cathode cd of 6-30 a/dm^2, 10-12 v potential, stirring by means of compressed air, and a 20-22°C temperature. The anodes are Pb. The least porous and densest deposits with the strongest adhesion to the parent metal were obtained with a cathode cd of 6-10 a/dm^2 from the above-mentioned E or with a cathode cd of 10-15 a/dm^2 from the E with an addition of 20-25 g/liter $Al_2(SO_4)_3$. Deposits of Zn 40-50 μ thick were obtained in 30-40 min. The P content in the deposit is 1.8-2.5%. Microhardness (measured with a PMT-3 apparatus) is 78-100 kg/mm^2. In 10-month

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SOV/137-59-3-7191

Electroplating With Zinc Containing Phosphorus and its Protective Properties

corrosion tests carried out in a moist chamber, a 15-day test in a corrosion chamber simulating tropical conditions, and a 6-month exposure under natural conditions in an industrial area, no corrosion products were found in Zn coating containing P, whereas Zn and Cd from conventional baths were corroded under tropical conditions and in an industrial atmosphere. The utilization of Zn coating as an undercoat under Cr is not recommended, especially for use under tropical conditions (network of cracks and Zn corrosion products).

A. I.

Card 2/2

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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8

RUDAYEV, Aleksey Kiriakovich; SOLODKOV, V.A., red.; YERMAKOVA, Ye.A., tekhn.red.

[Collection of problems in descriptive geometry] Sbornik zadach po nachertatel'noi geometrii. Izd.10. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 343 p. (MIRA 12:10)
(Geometry, Descriptive--Problems, exercises, etc.)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910018-8"