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IZRAITEL', S.A., otv. red.; MOISEYEV, S.L., otv. red.; SKURAT, V.K., otv. red.; SLASTUNOV, V.G., otv. red.; ZAYTSEV, A.P., red.; POLESIN, Ya.L., red.; SKURAT, V.K., red.;SLASTUNOV, V.G., red.; SOBOLEV, G.G., red.; FEOKTISTOV, A.T., red.; MIROSHNICHENKO, V.D., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Unified safety rules for mining metalliferous, non-metallic, and placer deposits by the underground method]Edinye pravila bezopasnosti pri razrabotke rudnykh, nerudnykh i rossypnykh mestorozhdenii podzemnym sposobom. Moskva, Gosgortekhizdat, 1962. 253 p. (MIRA 15:12)

1. Russia (1917- R.S.F.S.R.)Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru. (Mine safety)

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BALTAYTIS, V.Ya.; GNAMM, A.I.; POLESIN, Ya.L., redaktor, KOROVENKOVA, Z.A., tekhnicheskiy redaktor.

[Gas and heat resisting apparatus for extinguishing underground fires] Gazoteplozashchitnyi apparat dlia rabot po tusheniiu podzemnykh pozharov. Moskva, Ugletekhizdat, 1955. 36 p. (MLRA 8:7)
(Mine fires)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

PUGACH, Isay Markovich; POLESIN, Yakov Lazarevich; SHUB, Yevsey Yefimovich; SOBOLEV, G.G., redaktor; GRICHAYENKO, M.I., redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor; PROZOROVSKAYA, V.L., tekhnicheskiy redaktor.

[Mine rescuing and the prevention of mine accidents] Gornospasatel'noe delo i preduprezhdenie shakhtnykh avarii. Moskva, Ugletekhizdat, 1955. 398 p. (MLRA 9:4)

(Mine rescue work)

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POLESIN, Ya.L., inzhener.

The ShS-3 isoloting respirator. Bezop. truda v prom. 1 no.1:30-31 Ja '57. (MLRA 10:4)
(Respirators) (Mine gases)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

DROGALIN, Grigoriy Vasil'yevich; KURAS, Demiz Matveyevich; POLESIN, Yakov Lazarevich; NOVIKOV, M.M., nauchn. red.; BERMAN, Yu.K., ved. red.

[Safety measures in geological prospecting] Tekhnika bezopasnosti pri geologorazvedochnykh rabotakh. Izd.2. Moskva, Izd-vo "Nedra," 1964. 440 p. (MIRA 17:6)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESIN, Ya. L.

SERGEYEV, A.A., red.; ANPILOGOV, I.M., red.; ASSONOV, V.A., red.; BABAYANTS, N.A., red.; BABOKIN, I.A., red.; BALAMUTOV, A.D., red.; BOGORODSKIY, N.N., red.; BOLOHENKO, D.N., red.; BUCHNEV, V.K., red.; VAKHMINTSEV, G.S., red.; VORONKOV, A.K., red.; GARKALENKO, K.I., red.; GORBATOV, P.Ye., red.; GOLOVLEV, V.Ya., red.; DOKUCHAYEV, M.M., red.; DUBNOV, L.V., red.; YEVTEYEV, A.D., red.; YEREMENKO, Ye.K., red.; ZENIN, N.I., red.; KRIVONOGOV, K.K., red.; KUPALOV-YAROPOLK, I.K., red.; MATSYUK, V.G., red.; NIKOLAYEV, S.I., red.; ONISHCHUK, K.N., red.; PETROV, K.P., red.; PILYUGIN, B.A., red.; PLATONOVA, A.A., red.; POLESIN, Ya.L., red.; POKROVSKIY, L.A., red.; POMETUN, D.Ye., red.; POLYUSHKIN, A.Kh., red.; REYKHER, V.P., red.; SEDOV, N.A., red.; SIDORENKO, I.T., red.; FIDELEV, A.A., red.; CHAKHMAKHCHEV, A.G., red.; CHEMODUROV, M.Ya., red.; SHUMAKOV, A.A., red.; YAREMENKO, N.Ye., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Standard safety regulations for blasting operations] Edinye pravila bezopasnosti pri vzryvnykh rabotakh. Izd.2. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 318 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.
(Mining engineering--Safety measures)

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POLESIN, Ya. L.

ALEKSEYEV, V.I., inzh.; POLESIN, Ya.L., inzh.

Causes of accident in the Krasnolimanskaia Mine. Bezop.truda v prom. 2 no.3:10-13 Mr '58. (MIRA 11:3)
(Donets Basin--Mine explosions)

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POLESIN, Ya.L.

ABRAMOV, F.A., prof., doktor tekhn.nauk; BALTAYTIS, V.Ya., inzh.; BARON, L.I., doktor tekhn.nauk; BATALIN, S.A., dotsent, kand. tekhn.nauk; BYKOV, L.N., prof., doktor tekhn.nauk; VESELOVSKIY, V.S., prof., doktor tekhn.nauk; VLADIMIRSKIY, V.V., kand.tekhn. nauk [deceased]; VORONIN, V.N., doktor tekhn.nauk [deceased]; VORONINA, L.D., kand.tekhn.nauk; VOROPAYEV, A.F., prof.,dokt.tekhn. nauk; ZHUKOV, G.I.; KOMAROV, V.B., prof., doktor tekhn.nauk; KRICHEVSKIY, R.M., kand.tekhn.nauk; KSENOFONTOVA, A.I., dotsent, kand.tekhn.nauk; LIDIN, G.D., doktor tekhn.nauk; MILETICH, A.F., dotsent, kand.tekhn.nauk; MUSTEL', P.I., dotsent, kand.tekhn. nauk; NOVIKOV, K.P., kand.tekhn.nauk; OGIYEVSKIY, V.M., prof., doktor tekhn.nauk [deceased]; POLESIN, Ya.L., inzh.; RIPP, M.G., dotsent, kand.tekhn.nauk; SOBOLEV, G.G., inzh.; SOLOV'YEV, P.M., inzh.; SUKHAREVSKIY, V.M., kand.tekhn.nauk; KHEYFITS, S.Ya.,dotsent,

(Continued on next card)

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ABRAMOV, F.A.---(continued) Card 2.
kand.tekhn.nauk; KHODOT, V.V., kand.tekhn.nauk; SHCHERBAN', A.N.; TERPIGOREV, A.M., glavnyy red.; SKOCHINSKIY, A.A., otv. red.toma; ZAYTSEV, A.P., zam. otv.red.toma; BOBROV, I.V., red. toma; KOMAROV, V.B., red.toma; SIRYACHENKO, F.N., red.toma; VARZIN, A.V., kand.tekhn.nauk, red.toma; KLIMANOV, A.D., dots.,kand. tekhn.nauk, red.toma; KRIVONOGOV, K.K., inzh., red.toma; NEUYMIN, I.N., inzh., red.toma; TITOV, N.G., doktor tekhn.nauk, red.toma; CHIZHOV, B.D., kand.tekhn.nauk, red.toma; GNEDIN, V.Ye., red. izd-va; NIKOLAYEV, V.F., red.izd-va; BASHEVA, T.A., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklopedicheskii spravochnik. Glav.red. A.M.Terpigorev. Chleny glav. red.: A.I.Barabanov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po ugol'noi promyshl. Vol.6. [Mine atmosphere and ventilation; controlling dust, gases, and fires; mine rescue work] Rudnichnaia atmosfera i ventiliatsiia; Bor'ba s pyl'iu, gazami i pozharami; Gornospasatel'noe delo. Redkollegiia toma: A.A.Skochinskii i dr. 1959. 375 p. (MIRA 12:6)

1. Chlen-korrespondent AN USSR (for Shcherban').
(Mine ventilation) (Mine rescue work)

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STUGAREV, Andrey Savel'yevich, kand.tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR; POLESIN, Yakov Lazarevich, gornyy inzh.; SEREBRYANYY, A.G., inzh., otv.red.; OKHRIMENKO, V.A., red.izd-va; LOMILINA, L.N., tekhn.red.; KOROVENKOVA, Z.A., tekhn.red.

[Safety engineering in coal mines] Bezopasnost' truda v ugol'nykh shakhtakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 526 p. (MIRA 12:12)
(Coal mines and mining--Safety measures)

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VORONKOV, A.K., inzh.; POLESIN, Ya.L., inzh.

The coal-mining industry on the eve of the 21st Congress of the CPSU. Bezop.truda v prom. 3 no.1:3-5 Ja '59. (MIRA 12:3)
(Coal mines and mining)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

ZAYTSEV, A.P., red.; BORZOV, K.V., red.; BOGUSLAVSKIY, Yu.K., red.; BELOUSOV, V.G., red.; VODAKHOV, L.A., red.; IZRAITEL', S.A., red.; KOL', A.N., red.; LISYUK, S.S., red.; MOISKIEV, S.L., red.; MEL'NIKOV, N.V., red.; MOROZOV, V.P., red.; MUDROV, P.A., red.; POLYAKOVA, Z.K., red.; PODERNI, Yu.S., red.; POLESIN, Ya.L., red.; POKROVSKIY, L.A., red.; SLASTUNOV, V.G., red.; SKURAT, V.K., red.; STRUNIN, M.A., red.; SOKOLOVSKIY, M.M., red.; FEOKTISTOV, A.T., red.; CHESNOKOV, M.M., red.; SHUKHOV, A.N., red.; YAMSHCHIKOV, S.M., red.; BYKHOVSKAYA, S.N., red.izd-va; BERESLAVSKAYA, L.Sh., tekhn.red.

[Unified safety regulations in open-cut mining] Edinye pravila bezopasnosti pri razrabotke mestorozhdenii poleznykh iskopaemykh otkrytym sposobom. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 61 p. (MIRA 13:7)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyi komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Strip mining--Safety measures)

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KUTUKOV, A.I., red.; ZAYTSEV, A.P., red.; DROGALIN, G.V., red.; POLESIN, Ya.L., red.; KOSTYUKOV, N.N., red.; KURAS, D.M., red.; LUZHNIKOV, A.M., red.; RODIONOV, I.S., red.; BLOKH, S.S., red.; SULTANOV, D.K., red.; BIBILUROV, V.P., red.; PETROV, A.I., red.; KHARCHEVNIKOV, N.M., red.; ANDRIANOV, K.I., red.; GADZHINSKAYA, M., red.izd-va; BERESLAVSKAYA, L.Sh., tekhn.red.

[Safety regulations for petroleum and gas producing industries] Pravila bezopasnosti v neftegazodobyvaiushchei promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 123 p. (MIRA 14:3)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru. 2. TSentral'nyy apparat Gosgortekhnadzora RSFSR (for Kutukov, Zaytsev, Drogalin, Polesin, Kostyukov, Kuras, Luzhnikov, Rodionov, Blokh). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopasnosti (for Sultanov). 4. Upravleniya ukrugov Gosgortekhnadzora RSFSR (for Bibilurov, Petrov, Kharchevnikov). 5. TSentral'nyy komitet profsoyuza rabochikh neftyanoy i khimicheskoy promyshlennosti (for Andrianov).

(Oil fields--Safety measures)
(Gas industry--Safety measures)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

KOLESNICHENKO, Vladimir Fedorovich; DUBROVSKIY, Samuil Moiseyevich; POLESIN, Ya.L., otv. red.; GIL'MAN, S.E., red. izd-va; LOMILINA, L.N., tekhn. red.; SHKLYAR, S.Ya., tekhn. red.

[Labor safety in carrying out mine development operations] Bezopasnost' truda pri provedenii gornopodgotovitel'nykh vyrabotok. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 72 p. (MIRA 15:2)
(Mining engineering—Safety measures)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

GOLUTVIN, Vasiliy Andreyevich; POLESIN, Ya.L., otv. red.; YEROKHIN, G.M., red.izd-va; IL'INSKAYA, G.M., tekhn. red.

[Labor safety in coal mines] Bezopasnost' truda na ugol'nykh shakhtakh. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 85 p. (MIRA 15:2)
(Coal mines and mining--Safety measures)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

KOLESNICHENKO, Vladimir Fedorovich; DUBROVSKIY, Samuil Moiseyevich; YEROKHIN, G.M., red.izd-va; POLESIN, Ya.L., otv. red.; BOLDYREVA, Z.A., tekhn. red.

[Labor safety in stoping] Bezopasnost' truda pri vedenii ochistnykh rabot. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 100 p. (MIRA 14:11)

(Stoping (Mining)---Safety measures)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

DROGALIN, G.V.; KURAS, D.M.; POLESIN, Ya.L.; NOVIKOV, M.M., nauchnyy red.; IONINA, I.N., ved. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Safety engineering in geological prospecting] Tekhnika bezopasnosti pri geologorazvedochnykh rabotakh. Leningrad, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 370 p. (MIRA 15:3)

(Prospecting--Safety measures)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESIN, V.I., inzh.

"Manual on safety engineering for miners" by A.I. Liuev. Reviewed by M.I.Polesin. Bezop.truda v prom. 5 no.10:27 O '61. (MIRA 14:10)

(Mining engineering--Safety measures)
(Liuev, A.I.)

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CP

24

Sampling air and measuring the temperatures in the control of underground fires [in coal mines]. V. D. Sokolov and Z. L. Polesin. *Gornyi Zhur.* **1939**, No. 2, 74-6; *Khim. Referat. Zhur.* **1939**, No. 6, 73-4.—Chem. thermostat thermometers are proposed for measuring the temps. The thermometer is placed in a metallic case. The bulb is immersed in oil to increase the inertia of the instrument to prevent lowering of the reading during removal of the instrument from the pit (of a depth of 60-70 m.). Three constructions of air-sampling burets are proposed. Latten cylinders are lowered into the pit in a truss (1) with an electromagnetic bar, (2) of a small gas-holder type and (3) with spring valves. The last model is used for sampling air which is pumped out of the pit with a small pump.

W. R. Henn

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GEKKER, R.F.; IVANOVA, Ye.A., otvetstvennyy redaktor; POLESITSKAYA, S.M., tekhnicheskiy redaktor

[Instructions for research in paleoecology] Nastavlenie dlia issledovanii po paleoekologii. Izd. 2-oe. Moskva, Izd-vo Akademii nauk SSSR, 1955. 38 p. (Nastavleniia po sboru i izucheniiu iskopaemykh organicheskikh ostatkov. 6) (MIRA 9:9)
(Paleontology)

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POLESITSKIY, N.Sh., kandidat meditsinskikh nauk

Paralytic conditions of the diaphragm. Vest. rent. i rad. no.6: 27-31 N-D '54. (MLRA 8:1)

1. Iz Leningradskoy mezhoblastnoy bol'nitsy.
(DIAPHRAGM, paralysis)
(PARALYSIS, diaphragm)

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POLESITSKIY, N.Sh., kand.meditsinskikh nauk (Leningrad)

Chronic retrocardiac pneumonia in children. Kaz. med. zhur. no. 4:59-60 Jl-Ag '60. (MIRA 13:8)

(PNEUMONIA)

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PROCESSES AND PROPERTIES INDEX

BC

A-1

Formation and fission of transuranium nuclei. V. E. Polesitski and K. A. Petrjak (Compt. rend. Acad. Sci. U.R.S.S., 1939, 24, 854).—50 g. of U [salt] were bombarded by slow neutrons from a cyclotron for 20 hr. and then dissolved in HCl. A few mg. of PtS_2 were pptd. together with all the trans-U elements (if present). The ppt., measured on a Geiger–Müller counter, gave several hundreds of impulses per min.; the same ppt. placed in an ionisation chamber gave no effect within two hr. This shows that if trans-U elements are formed, after which they undergo fission, the effective cross-section for this process must be < that of the U fission, and $> 10^{-28}$ sq. cm. W. R. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

KUT'KO, L.F.; MEL'NIK, M.Ya.; POLESKO, Yu.A.

Effect of fertilizers on the number of soil micro-organisms and grape yields. Agrobiologiia no.2:265-270 Mr-Ap '64. (MIRA 17:6)

1. Nizhnedneprovskaya nauchno-issledovatel'skaya stantsiya po obleseniyu peskov i vinogradarstva na peskakh, g. TSyurupinsk.

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KREJCI, O.; VYSOKA, B.; HANZAL, Fr.; REHANEK, L.; MANYCH, J., technicka spoluprace POLESNA, D.

Generalized cryptococcosis (torulosis). Cas.lek.cesk 100 no.16:484-492 21 Ap '61.

1. Ustav epidemiologie a mikrobiologie v Praze, prednosta prof. dr. K. Raska. Neurologicka klinika KU v Praze, prednosta akademik K. Henner. Ustav soudniho lekarstvi KU v Praze, prednosta prof. dr. Fr. Hajek.

(CRYPTOCOCCOSIS case reports)

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POLESNY, M.

Improvement of the exhaust pipe. p.254.
(Mechanisace Zemedelstvi, Vol. 7, No. 11, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessiors (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

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Polesofksy, Walter

Hydroxypseudocumoquinone. Alfred Pongratz and Walter Polesofksy (Lannacher Heilmittelges., Lannach, [illegible]) [illegible] 86, 312-17(1955); cf. *C.A.* 46, 11143a; *Österr. Chem. Ztg.* 55, 259(1954).—Trinitropseudocumene (I), m. 186-7° (from xylene), is prepd. by crystg. crude 2,4,5,3,6-$Me_2(O_2N)_3C_6SO_3H$ (*loc. cit.*); 37 g. I, 131 g. Sn, and 600 ml. concd. HCl heated to start the violent reaction, finally refluxed 1 hr., cooled, the Sn salt in 1 l. H_2O treated with H_2S 24 hrs., the filtrate evapd. and the residue crystd. from concd. HCl gives 24 g. *2,4,5,3,6-$Me_2(H_2N)_3C_6OH$-2HCl* (II), m. 265° (decompn.), unstable at pH > 3 [*tri-Ac deriv.* of the base, m. 241-2° (from H_2O), by boiling II with Ac_2O 2.5 hrs.]. II (4.8 g.) in 40 ml. *N* AcOH treated portionwise with 7 ml. *M* aq. CrO_3, kept 1 hr., and steam distd. gives 1.2 g. *6-hydroxy-p-pseudocumoquinone* (III), red needles from H_2O, m. 171.5-2.0° calcd. redox potential 0.434 v. Shaking 0.4 g. III, 16 ml. C_6H_6, 8 ml. H_2O, and 1 g. $Na_2S_2O_4$ 5 min. yields 0.35 g. *5,5,6,1,2,4-$Me_2C_6(OH)_2$*, needles, m. 182-6°, which in alk. soln. yields III and H_2O_2 on shaking in air several sec. Ultraviolet and visible spectra of III and *p-pseudocumoquinone* are shown.

A. W. Schrecker

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POLESOV, A.F.; FINKEL'SHTEYN, B.N., doktor fiz.-mat.nauk

Effect of short range order on the electrical resistance of ordering alloys. Probl. metalloved. i fiz. met. no.5:419-430 '58.
(Alloys--Electric properties) (MIRA 11:4)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESOVSKY, J.

Brave hearts against 90 per cent mystery. p. 26.

CESKOSLOVENSKY VOJAK. (Ministerstvo narodni obrany. Hlavni politicka sprava) Praha, Czechoslovakia. Vol. 8, no. 13, June 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 10, Oct. 1959. Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESSIKY, P. K.

Swine - WhiteRussia

Raising black-spotted hogs in White Russia. Sots. zhiv. 14 no. 3, 1952

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

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

GITKINA, L.S.; POLESSKAYA, L.P.

Recurrent paralysis with involvement principally of the oculomotor area. Zdrav.Belor. 3 no.10:27-29 O '57. (MIRA 13:6)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii (direktor - Ye.F. Kalitovskiy, nauchnyy rukovoditel' - professor D.A. Markov).
(EYE--DISEASES AND DEFECTS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

GEL'MAN, T.M.; POLESSKAYA, L.P.

Treatment of epilepsy with hexamidine. Zdrav.Belor. 5 no.7: 34-36 Jl '59. (MIRA 12:9)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii (direktor Ye.F.Kalitovskiy, nauchnyy rukovoditel' - akademik D.A.Markov).
(EPILEPSY) (PYRIMIDINE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESSKAYA, L.P.

Cases of infectious virus diseases. Zdrav. Belor. 5 no.11:61-62 N '59. (MIRA 13:3)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta nevrologii, neyrokhirurgii i fizioterapii.
(SPINAL CORD--DISEASES)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 07153-67 EWT(1) SCTB DD

ACC NR: AN7001057

SOURCE CODE: UR/9012/66/000/247/0006/0006

AUTHOR: Makarov, K.; Polesskiy, M.

ORG: none

14
B

TITLE: Black Sea experiment

SOURCE: Pravda, 04Sep66, p. 6, col. 7-8

TOPIC TAGS: oceanography, oceanographic research facility

ABSTRACT: Somewhat more information is given on the experiences of underwater dwellers in the Black Sea in the small "house" set up beneath its waters by the sportsmen of the "Ikhtiandr" club in Donetsk. The principal objective of the experiment is to clarify the ability of man to withstand the increased pressures prevailing beneath the sea surface over an extended time. The "house", called "Ikhtiandr-66", at a depth of 11 meters, measures two meters in length, one and one-half meters in width and two meters in height. It sits on thick reinforced concrete pilings and is securely attached to them. The house is connected to the surface by telephone. Each man is alloted a daily ration of 5,000 calories. The residents go outside from time to time for exercise. The first day the house was occupied by only one man; on the second day he was joined by another. They stayed underwater for one week and

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESSKIY, Ya.

Neo-colonialism under the guise of "aid" ("Colonial expansion of finance capital of the United States under the guise of 'aid.'" V.V. Rymalov. Reviewed by I.A. Polesskii). Vop. ekon. no.10: 130-136 O '56. (MLRA 9:11)

(United States--Foreign economic relations)
(Rymalov, V.V.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESYA, A. F.

POLESYA, A. F. -- "Investigation of the Theory of Self-adjusting Alloys." Min Higher Education USSR, Dnepropetrovsk State University imeni Three Hundredth Anniversary of the Reunion of the Ukraine with Russia, Dnepropetrovsk, 1956. (Dissertation for the Degree of Candidate of Physicomathematical Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

AUTHORS: Polesya, A.F. and Finkel'shteyn, B. N. 126-5-3-25/31

TITLE: Effect of Short-range Order on the Electrical Resistances of Alloys Showing Order-Disorder Phenomena (Vliyaniye blizhnego poryadka na elektricheskoye soprotivleniye uporyadochivayushchikhsya splavov)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol 5, Nr 3, pp 554-556 (USSR)

ABSTRACT: The one-electron theory is used to correct the curves obtained by Smirnov (Ref.1) allowing for long-range order (the deviations from experiment being reduced). The a priori probabilities P_j^m and the a posteriori probabilities $P_j^{(m)}(k)$ for a binary alloy are related by Eqs.(3), for body-centred and simple cubic lattices. Matrix methods and perturbation theory are then applied in the usual fashion to give the results shown in Fig.1, where I is the experimental curve (Ref.6), II the theoretical one (formula II) and III from Smirnov's formula, (III).
There are 7 references, 6 of which are Soviet, 1 English.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

126-5-3-25/31

Effect of Short-range Order on the Electrical Resistances of Alloys Showing Order-Disorder Phenomena

ASSOCIATIONS: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University)
Institut metallovedeniya i fiziki metallov TsNIIChM (Institute of Metallography and Metal Physics TsNIIChM)

SUBMITTED: February 18, 1957

1. Alloys--Resistance 2. Alloys--Lattices 3. Perturbation theory

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 35904-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6007350 (A) SOURCE CODE: UR/0126/66/021/002/0203/0210

AUTHORS: Polesya, A. F.; Reshetnyak, T. I.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosuniversitet)

TITLE: Change in the electrical resistance of alloys of the system Al--Si--Cu--Mg as a function of their thermal treatment

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 2, 1966, 203-210

TOPIC TAGS: electric resistance, aluminum alloy, silicon containing alloy, copper containing alloy, METAL AGING, CRYSTAL LATTICE PARAMETER

ABSTRACT: The dependence of the electrical resistance of alloys of the system Al--Si--Cu--Mg was studied as a function of the internal processes which occur in the alloys, e.g., phase solubility, coagulation, and spheroidization of silicon particles during precipitation of supersaturated solid solutions. The effect of adding Ti, Mn, and Zr to the alloy on its electrical resistance and the lattice parameter were also determined. The study supplements the results of A. Gin'ye (Neodnorodnyye metallicheskiye tverdyye rastvory, M., IIL, 1962). The experimental results are presented in graphs and tables (see Fig. 1). The electrical resistance of the alloys increased initially, and then decreased considerably, as a function of the aging time. Manganese forms supersaturated solid solutions with the alloy and

UDC: 539.292:548:537.3

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L 35904-66

ACC NR: AP6007350

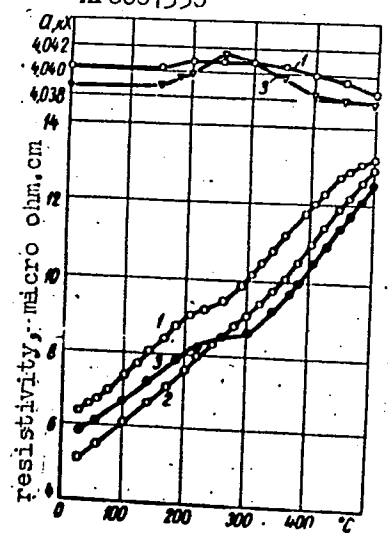

Fig. 1. Dependence of the resistivity and crystal lattice period a of alloy 4 (Si - 8.0%, Cu - 1.62%, Mg - 0.61%, Ti - 0.2 %, B - 0.01 %, Fe - trace; % by wt) on the temperature of heating: 1 - cast alloy; 2 - annealed; 3 - quenched.

is precipitated only at elevated temperatures. Aging of freshly quenched alloys at 160C causes an anomalous increase in the electrical resistance at the early aging stages. It is suggested that this behavior is associated with the existence of a large zone density and a large rate of zone formation in these alloys. Orig. art. has: 1 table and 6 figures.

SUB CODE: 11/ SUBM DATE: 22Mar65/ ORIG REF: 008/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 35900-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JH

ACC NR: AP6007356 SOURCE CODE: UR/0126/66/021/002/0283/0286

AUTHOR: Polesya, A. F.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosuniversitet)

TITLE: Kinetics of decomposition of the solid solution in the alloy Mg--Al

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 2, 1966, 283-286

TOPIC TAGS: magnesium alloy, aluminum containing alloy, x ray spectroscopy, crystal lattice, THERMAL DECOMPOSITION

ABSTRACT: The kinetics of the decomposition of the solid solution formed by the alloy, Mg + 10.5 wt.% Al, was studied by x-ray analysis. The investigation supplements the results of R. S. Bask (Stareniye splavov, M., Metallurgizdat, 1962, str. 387). The crystal lattice period was determined as a function of temperature. The experimental results are presented graphically (see Fig. 1). It is concluded that the mechanism for solid solution decomposition in the alloy Mg + 10.5 wt.% Al is a two-stage process, which is accompanied by a disorientation and disintegration of the crystal grains.

Card 1/2 UDC: 620.181/183.48

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L 35900-66

ACC NR: AP6007356

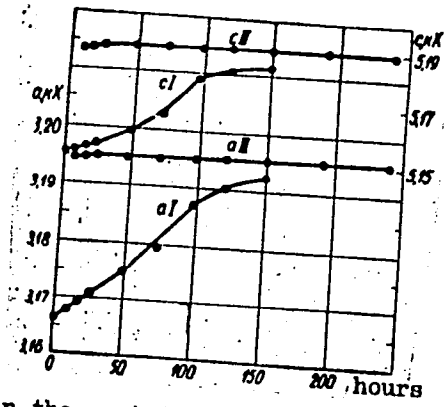

Fig. 1. Change in the periods of the crystalline lattice a and c of the alloy Mg + 10.5 wt.% Al as a function of aging time at 150C. I - initial supersaturated solid solution; II - decomposed solid solution derived from I after annealing for 8 hours.

Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 17Apr65/ ORIG REF: 008/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESYA, A. F.,

"The Effect of Short-range Order on the Electrical Resistance of Alloys Entering an Ordered State," with Finkel'shteyn, B. N., Dr. Physical and Mathematical Sciences, page 419.

In book Problems of Physical Metallurgy, Moscow, Metallurgizdat, 1958, 603p. (Its: Sbornik trudov, v. 5)

The articles in the book present results of investigations conducted by the issuing body, Inst. of Physical Metallurgy, a part of the Cent. Sci. Res. Inst. of Ferrous Metallurgy, located in Dnepropetrovsk. The investigations were concerned with phase transformations in alloys, strengthening and softening processes, diffusion processes (studied with the aid of radioactive isotopes), and certain other questions.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

VAULYGIN, I.Kh.; POLESYA, A.F.

Investigating the mutual solubility of iron and manganese in aluminum. Izv. vyc. uchebn. zav.; tsvet. met. 7 no.6:98-103 '64. (MIRA 18:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut i Dnepropetrovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESYA, A.F.

Recrystallization and aging of an aluminum-magnesium alloy. Fiz. met. i metalloved. 19 no.1:78-82 Ja '65. (MIRA 18:4)

1 Dnepropetrovskiy gosudarstvennyy universitet.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

AUTHOR: Polesya, A. F. SOV/163-58-1-34/53

TITLE: The Kinetics of Orientation (Kinetika uporyadocheniya)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 1, pp 188-191 (USSR)

ABSTRACT: Experimental results show that the orientation in alloys depends on the nuclei and the increase in the new phase.
The aim of a number of experiments was to determine the kinetics of the transition from the unorientated to the orientated phase as well as the basis of the mechanism of the formation of nuclei and the increase in the nuclei. AuCu, $AuCu_3$, $FeNi_3$ and CoPt were used as alloys. The experiments demonstrated that the rate of the formation of nuclei and the increase depend on the newly formed phase.
The formation of nuclei in the orientating phase in the alloys is subjected to the general rules of the crystallization process. To completely determine the transformation rate from order to disorder at certain temperatures the problem of the increase rate of the nuclei also has to be taken into account. The increase rate has a maximum at a temperature of 635°. The maximum

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The Kinetics of Orientation

SOV/163-58-1-34/53

value of the increase rate and the formation rate of the nuclei in the alloy $AuCu_3$ are to be found within the temperature range of 630 to 635°.
There are 1 figure and 6 references, 3 of which are Soviet.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University)

SUBMITTED: October 1, 1957

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 240 (USSR) SOV/137-58-7-15595

AUTHORS: Polesya, A. F., Finkel'shteyn, B. N.

TITLE: Effect of Short-range Order on the Electric Resistivity of Ordered Alloys (Vliyaniye blizhnego poryadka na elektricheskoye soprotivleniye uporyadochivayushchikhsya splavov)

PERIODICAL: Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n.-i. in-ta chernoy metallurgii, 1958, Nr 5, pp 419-430

ABSTRACT: The effect of the close order on the value of the retained electric resistivity (ER) in one-electron approximation is investigated. The problem is solved by the methods of the perturbation theory; the Bloch functions are adopted for the role of unperturbed functions. By means of eight a-posteriori probabilities the value for the coefficient of correlation between atoms in the ordered solid solution is found. Calculations are made for the case of a body-centered crystal lattice. A formula was obtained for the relationship between the ER of the alloy and its composition and degree of short- and long-range order was obtained. For the Cu-Zn alloys the formula agrees with experiment with ~2-3% precision. Without taking the correlation

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SOV/137-58-7-15595

Effect of Short-range Order (cont.)

into account the formula is reduced to the result received earlier (Smirnov, A. A., Zh. experim. i teor. fiziki 1947, Vol 17, p 743; Ryzhanov, S., Zh. experim. i teor. fiziki, 1939, Vol 9, p 4). It is indicated that the formula of A. A. Smirnov conveys correctly the relationship between the ER of the alloy and the long-range order. The deviation from the experimental curve is explained by the fact that during the development of the formula the correlation between the atoms was not taken into account.

1. Alloys--Electrical properties 2. Alloys--Resistivity D. B.

Card 2/2

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A006/A001

18.7500

AUTHOR: Polesya, A.F.

TITLE: Roentgenographical Investigation of Recrystallization Kinetics of Aluminum and Copper

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, 1961, No. 1, pp. 121 - 123

TEXT: An investigation was made of recrystallization kinetics of strongly deformed aluminum and copper. The activation energy of recrystallization was determined by the appearance of spots on the radiograph. This method determines the energy of grain growth developing when the specimen is placed into the annealing furnace. Grain growth proceeds until a grain size of 10^{-4} cm is being attained. The radiograph reflects individual grains in the form of spots. Simultaneously with grain growth in the deformed metal, nucleation of new grains and intensified relaxation processes take place. The author studied the effect of relaxation on grain growth in Al and Cu and on changes in the structure and hardness of specimens occurring during relaxation processes. Data on changes in the fine structure were obtained by analyzing the widening of interference lines using the method of

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Roentgenographical Investigation of Recrystallization Kinetics of Aluminum and Copper

harmonic analysis (Ref. 2) and the method of integral line width (Ref. 3). Aluminum specimens were annealed in a saltpeter bath, and copper specimens in a muffle furnace and in a water bath. Exposures were made with CuK_{α} and NiK_{α} radiation. The activation energy of recrystallization for an "A00" grade aluminum specimen was determined with the aid of a graph where ln T was plotted versus $\frac{1}{T}$ (T is the time of the appearance of spots at $T^{o}K$). It was found that the activation energy measured at 230 - 280°C for aluminum specimens deformed by rolling to 70 and 80% was 40 and 44.4 kcal/mole respectively. The activation energy of electrolytic copper measured at 40 - 110°C, deformed to 80 - 90%, was 21.6 and 18 kcal/mole respectively. The author concludes that the rate of grain growth at an early recrystallization stage remains constant and that the magnitude of activation energy approaches that of activation energy of relaxation and creep (Ref. 4). Hardness of aluminum decreases monotonously with time at a constant annealing temperature and increases slightly at a given moment of time, in particular for electrolytic copper, when the spots appear on the radiograph. The line width during isothermal annealing increases at a higher hardness. The methods of harmonic analysis and of

Card 2/5

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Roentgenographical Investigation of Recrystallization Kinetics of Aluminum and Copper

integral width are used to distinguish between the widening caused by distortions of the second order and that due to the fine dispersion of domains. Results obtained are given in Graphs 2 and 3. Initially, hardness decreases, distortions of second order are removed and the domains are slightly crushed. This continues until the appearance of spots on the radiograph. With increasing hardness, the stresses of second orders increase and crushing of domains takes place. Crushing of domains during recrystallization of electrolytic copper deformed to 7 and 15% was also observed by Borchers and Schaefer (Ref. 5). The crushing of the structure during recrystallization of strongly deformed electrolytic copper proves that many peculiarities in the rearrangement of a deformed lattice and in the formation of undeformed nuclei observed in weakly deformed metals, are also valied for higher degrees of deformation.

Card 3/5

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Roentgenographical Investigation of Recrystallization Kinetics of Aluminum and Copper

Figure 1

Changes in hardness depending on the time of isothermal annealing of electrolytic copper at different recrystallization temperatures. (56% deformation).

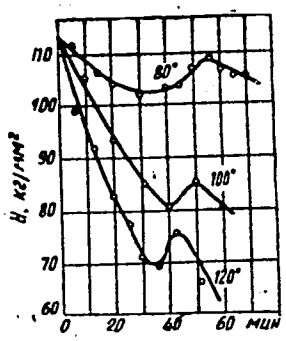
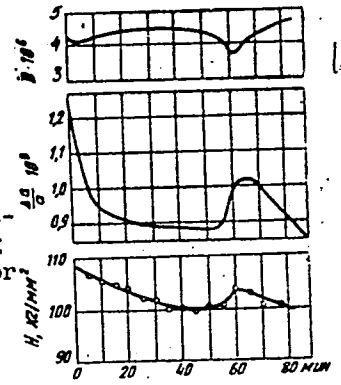


Figure 2

Changes in hardness (H), dimensions of domains (D) and distortions of second order $\left(\frac{\Delta a}{a}\right)$ depending on annealing time at 100°C for copper deformed by 40%. The values of D and $\left(\frac{\Delta a}{a}\right)$ are determined from data of harmonic analysis of the shape of lines (331) and (420).



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Roentgenogrpahical Investigation of Recrystallization Kinetics of Aluminum and Copper

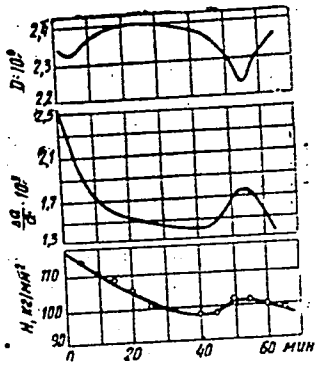

Figure 3

Changes in hardness (H), dimensions of domains (D) and distortions of second order $\left(\frac{\Delta a}{a}\right)$ depending on the time of annealing at 100°C for copper deformed by 70%. The values of D and $\left(\frac{\Delta a}{a}\right)$ were calculated from the width of lines (002) and (004).

There are 3 figures and 5 references: 4 Soviet and 1 German.

ASSOCIATIONS: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University); Kafedra metallofiziki (Department of Physics of Metals)

SUBMITTED: December 22, 1959

Card 5/5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

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L 31864-65 EWT(m)/EWP(w)/EWA(d)/EPR/T/EWP(t)/EWP(b) Ps-4 IJP(c) JD

ACCESSION NR: AP5003367 S/0149/64/000/006/0098/0103

27
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B

AUTHOR: Varivoda, I. Kh.; Polesya, A. F.

TITLE: Combined solubility of iron and manganese in aluminum

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 6, 1964, 98-103

TOPIC TAGS: aluminum alloy, manganese alloy, iron solubility, manganese solubility, aluminum solid solution, alloy hardness, alloy lattice constant

ABSTRACT: Solid solutions of the alloys Al-Fe, Al-Mn, and Al-Fe-Mn were investigated in order to elucidate the influence of the simultaneous addition of Fe and Mn on the structure of ternary solid solutions, which determines the basic properties of the corresponding alloys. Lattice constants of the above alloys were determined by x-ray analysis as a function of the annealing temperature and content of the alloying elements Mn and Fe. The grain size and microhardness were also measured as a function of the content of Mn and Fe. It was found that the addition of iron in amounts over 0.5 wt. % to the binary Al-Mn alloy decreases the equilibrium solubility of manganese in aluminum and accelerates the decomposition of the ternary solid solution (lowering the temperature at which the de-

Card 1/2

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ACCESSION NR: AP5003367

composition begins). An increase in iron content above 1% in the ternary alloy Al-Mn-Fe decreases the supersaturability of solid solutions with manganese at high cooling rates. The maximum (nonequilibrium) combined solubility of manganese and iron in the ternary solid solution does not exceed their maximum solubility in the corresponding binary solid solutions. The addition of iron promotes grain refining in Al-Mn alloys. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrocsk chemical engineering institute); Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrocsk state university)

SUBMITTED: 25Sep63 ENCL: 00 SUB CODE: MM

NO REF SOV: 004 OTHER: 003

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 31859-65 EWT(m)/EPR/T/EWP(t)/EWP(b) Ps-4 IJP(c) JD

ACCESSION NR: AP5004268 S/0126/65/019/001/0078/0082

32
30
B

AUTHOR: Polesya, A. F.

TITLE: The recrystallization and aging of a magnesium aluminum alloy

SOURCE: Fizika metallov i metallovedeniye, v. 19, no. 1, 1965, 78-82

TOPIC TAGS: alloy recrystallization, alloy aging, phase transition, supersaturated solution, solid solution, activation energy, initial matrix, diffusion process, temperature stability, magnesium alloy, aluminum alloy

ABSTRACT: An investigation has been made of the kinetics, the recrystallization and aging of an aluminum alloy containing 10% magnesium and revealing a 70% deformation. It has been shown that the appearance of recrystallized grains in a supersaturated solid solution is possible in such an alloy before the onset of the decay process. A previous study of aging alloys on a nickel base by S. S. Gorelik revealed that the initial recrystallization of supersaturated solid solutions coincides with the beginning of the solid solution decaying process. A detailed study of the interaction between the recrystallization process and the decay of a supersaturated solid solution might shed additional light on the recrystallization mechanism. At temperatures above 310C the recrystallization process occurs before the disintegra-

Card 1/2

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L 31859-65

ACCESSION NR: AP5004268

tion. It is impossible to determine the activation energy of the initial recrystallization of aging alloys within a temperature interval in which one process (decay) outruns the other (initial recrystallization). "The author is grateful to student L. S. Slipchenko for participating in the project." Orig. art. has: 2 figures, 2 formulas and 1 table.

ASSOCIATION: Dnepropetrovskiy gosu universitet (Dnepropetrovsk state university)

SUBMITTED: 10Jul63 ENCL: 00 SUB CODE: MM

NO REF SOV: 004 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLES'YEV, Semen Borisovich; ZAYTSEV, V.S., red.; POL'SKAYA, R.G., tekhn.red.

[The sons continue their fathers' work] Synov'ia prodolzhaiut delo ottsov. Leningrad, Lenizdat, 1960. 98 p. (MIRA 13:11)

(Leningrad--Labor and laboring classes)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESZAK, Jozef

Neuraminic acid in myocardial infarct. Pol. tyg. lek. 20 no.13: 461-462 29 Mr '65

1. Z I Kliniki Chorob Wewnetrznych Akademii Medycznej w Lublinie (Kierownik: prof. dr. med. M. Kedra).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

DMOWSKI, Gustaw; POLESZAK, Jozef; ROZEK, Stanislawa

A case of primary cryoglobulinemia. Polski tygod. lek. 16 no.31: 1199-1203 31 Jl '61.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Lublinie, kierownik: prof. dr med. Mieczyslaw Kedra.

(SERUM GLOBULIN)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

KEDRA, Mieczyslaw; POLESZAK, Jozef; PITERA, Aleksander

Influence of tobacco smoking on the blood lipid level.
Pol. tyg. lek. 20 no.39:1452-1454 27 S '65.

1. Z I Kliniki Chorob Wewnetrznych AM w Lublinie (Kierownik: prof. dr. med. Mieczyslaw Kedra).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESZCZUK, Mikolaj, technik; CZARNOTA, Zbigniew, technik; CZYZEWSKI, Witold, mgr.inz.; PETTKE, Norbert, technik

Two-stage turboset for milling chalky marl sludge. Gosp paliw 11 Special issue no. (95):51-52 Ja '63.

1. Zjednoczenie Przemysly Cementowego, Sosnowiec (for Poleszczuk and Czarnota). 2. Cementownia, Wejherowo (for Czyzewski and Pettke).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLESZCZUK, Mikolaj, technik; CZARNOTA, Zbigniew, technik; CZYZEWSKI, Witold, mgr. inz. PETTKE, Norbert, technik

Two-stage turboset for milling chalky marl sludge. Gosp paliw 11 Special issue no.(95):51-52 Ja'63.

1. Zjednoczenie Przemyslu Cementowego, Sosnowiec (for Poleszczuk and Czarnota). 2. Cementownia, Wejherowo (for Czyzewski and Pettke).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

CZARNOTA, Zbigniew, technik; POLESZCZUK, Mikolaj, technik

Equipment and method for a two current dust removal in mills for cement and other materials. Energetyka przem 10 no.3:99-100 '62.

1. Zjednoczenie Przemyslu Cementowego, Sosnowiec.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 37215-66 EWP(j)/EWT(m)/T IJP(c) RM/WW

ACC NR: AP6018127 (A) SOURCE CODE: UR/0191/66/000/006/0040/0042

AUTHOR: Kovarskaya, B. M.; Kolesnikov, G. S.; Levantovskaya, I. I.; Smirnova, O. V.; Drakyuk, G. V.; Poletakhina, L. S.; Korovina, Ye. V.

ORG: none

TITLE: Thermo-oxidative degradation of polycarbonates

SOURCE: Plasticheskiye massy, no. 6, 1966, 40-42

TOPIC TAGS: polycarbonate plastic, heat resistance, oxidative degradation, oxidation kinetics, reaction mechanism

ABSTRACT: Polycarbonates, molecular weight of about 30,000, based on 2,2-di-(4-hydroxyphenyl)-propane (PK-1), on 1,1-di-(4-hydroxyphenyl)-cyclohexane (PK-2) and on di-(4-hydroxyphenyl)-phenylmethane (PK-3) were subjected to thermal oxidation in vacuum. Kinetic curves of the thermal oxidations showed PK-1 was most stable and PK-3 the least stable. Energies of activation for the oxidations were calculated: 21.0, 17.6 and 13.0 kcal/mol, respectively. Reaction mechanisms are discussed. Auto-accelerated processes are indicated in the initial period of thermal oxidation of PK-1 and PK-2. Radical-chain oxidation

Card 1/2 UDC: 678.674'41'5.01:620.192.424

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 37215-66

ACC NR: AP6018127

mechanisms are indicated for all three materials. It is concluded that polycarbonates with increased resistance to thermal oxidation should contain a minimum number of "aliphatic" hydrogen atoms in the main polymer chain and the bisphenols with aliphatic carbon atoms bonded to hydrogen. Orig. art. has: 3 figures, 6 equations and 2 formulas.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAVKIN, P.G.

10(4); 21(5); 24(8) PHASE I BOOK EXPLOITATION SOV/2457

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke. 2d, Moscow, 1957

Teplotekhnika i gidrodinamika; trudy konferentsii, tom. 4 (Heat Engineering and Hydrodynamics; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, Vol 4) Moscow, Gosenergoizdat, 1958. 88 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR, and USSR. Glavnoye upravleniye po ispol'zovaniyu atomnoy energii.

Eds.: M. A. Styrikovich (Resp. Ed.), G. Ye. Kholodovskiy, and M. S. Pomichev; Ed. of Publ. House: L. N. Sinel'nikova; Tech. Ed.: N. I. Borunov.

PURPOSE: This collection of articles is intended for scientists and laboratory workers concerned with the use of radioactive and stable isotopes.

COVERAGE: This collection of papers deals with the application of radioactive and stable isotopes as measuring tools in various types of scientific investigation. No personalities are mentioned. References are given after some of the articles.

2. Bartolomey, G.G., Ya.O. Vinokur, V.A. Kolokol'tsev, and V.K. Petukhov. Use of Gamma Rays for Studying the Process of Diffusion 9

3. Kutateladze, S.S., and V.N. Moskvicheva. Use of Gammaradioscopy for Studying the Hydrodynamics of a Multifluid System 12

4. Poletavkin, P.G., and N.A. Shapkin. Method of "Tagged" Atoms for Investigating Water and Steam Content in Surface Boiling of a Fluid 16

5. Kudryavtsev, V.S. Determining the Specific Surface Area of Quartz and Cement Powders by the Sorption Method With the Use of "Tagged" Atoms 20

6. Moskvin, V.M., and I.I. Kurbatova. Use of Radioactive Isotope S^{35} for Studying Sulfate Corrosion of Concrete 28

7. Tsytovich, N.A., V.I. Ferronskiy, and V.A. Lukin. Methods for Determining the Density and Moisture Content of Soils With the Aid of Radioactive Emmisions 33

8. Polozova, L.G., and R.P. Reyzman. Study of the Processes of Moisture Transfer in Building Materials by Means of Gammaradioscopy 38

9. Styrikovich, M.A., I.Kh. Khaybullin, and L. K. Khokhlov. Use of Radioactive Isotopes for Investigating the Solubility of Salts in Water Vapor at High Pressures 41

10. Sterman, L.S., A.Ya. Antonov, and A.V. Surnov. Investigation of the Characteristics of Vapor at a Pressure of 185 abs. atm. With the Aid of Radioactive Isotopes 46

11. Dubrovskiy, V.A. Use of Radioactive Isotopes for Observing the Motion of the Molten Glass Mass in Glass Furnace Tanks 52

12. Rachinskiy, V.V. Use of Radioactive Isotopes in Studying the Filtration of Fluids Through Porous Media 57

13. Levpunskaya, D.I., and A.Ya. Pruslin. Radioisotope Methods for Investigating Flow Processes of Fluids in a Porous Medium 62

14. Borts, M.A., L.S. Zarubin, V.S. Kaminskiy, and L.L. Koreak. Investigation of the Hydrodynamics of a Fluid in the Conical Rotor of a Settling Centrifuge With the Aid of Radioactive Isotopes 67

15. Volarovich, M.P., N.V. Churayev, and B.Ya. Minkov. Investigations of the Motion of Water in Peat Under Laboratory and Field Conditions With the Use of Radioactive Isotopes 72

16. Arkhangel'skiy, M.M. Use of Radioactive Isotopes for Investigating Suspensions of River Silt 78

17. Veynik, A.I., and A.S. Shubin. Use of Radioactive Isotopes for Investigating the Mechanism of the Drying Process 85

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAVKIN, P. G.

96-4-10/24

AUTHORS: Poletavkin, P. G., Cand.Tech.Sc. and Shapkin, N.A., Eng.

TITLE: Water and steam content during surface-boiling of water. (Vodo- i parosoderzhaniye pri poverkhnostnom kipenii vody).

PERIODICAL: Teploenergetika, 1958, No.4, pp. 54-58 (USSR).

ABSTRACT: In water-cooled reactors, the water acts as a moderator as well as a cooling medium. Therefore, the reactivity of the reactor and the distribution of neutron flux in the reactor depend on the volume and density of the water in the active zone. In non-boiling-water reactors only the water density can change, and the volume of water in the active zone is constant. But in the boiling-water type of reactor the quantity of water in the active zone may change as well as the density, because of steam formation. It is important to know the relationship between the volume and density of the heat-transfer medium, or the water and steam contents, as functions of the thermal loading, the rate of circulation etc. In boiling-water reactors there may be simultaneous boiling of steam that is heated up to the saturation temperature of the liquid, and of underheated steam (by which is meant water the main mass of which is not heated up to the saturation temperature at the given pressure).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

96-4-10/24

Water and steam content during surface-boiling of water.

This article is concerned with study of the relationship between the water and steam content and the magnitude of the heat flow, the rate of motion, underheating of the liquid and so on. In the process of surface heating, steam bubbles form continuously on the heating surface, grow to a certain size and then leave the surface. The gamma-radiation method is often used to measure the water and steam content during boiling. This method is useful only when there are thick layers of water. It is only applicable to surface boiling of water if very sensitive devices, such as scintillation counters or photo-multipliers, are available. The best method for accurate measurement of water and steam content during surface boiling is that of marked atoms, employing a dilute solution of a radioactive salt. Theoretical equations used in the method are derived. The requirements that have to be met by the radioactive salt and solution are summarised. The salt must be pure, easily soluble, and of low concentration; its radiation activity must be suitable and of short half-life. A great advantage of using marked atoms is that by this method the water and steam content can be determined in different parts of the

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

96-4-10/24

Water and steam content during surface-boiling of water.

experimental heater. The experimental installation, illustrated in Fig.1, serves simultaneously to investigate heat-transfer and water and steam content. It is an ordinary closed circuit with a pump; the experimental conditions are described. To measure the water and steam content, the experimental section of the installation was provided with a lead chamber of wall thickness 5 - 6 cm containing two radiation counters, as depicted in Fig.2. The lead chamber could be moved along the experimental heater so as to measure the steam and water content at different places. The radioactive salt used was sodium fluoride, NaF, with radioactive Na^{24} having a half-life of 14.8 hours. This salt meets the various requirements postulated. Several groups of tests were made and, whenever practicable, only one parameter was changed in each test. Because of the short half-life of Na^{24} and the fact that tests sometimes lasted for a week, the time of measuring the impulses was recorded, making appropriate allowance for the reduced intensity of radiation from the salt. Tests on water and steam content with surface boiling were made under the following conditions: pressure, 7, 16 and

Card 3/4

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

96-4-10/24

Water and steam content during surface-boiling of water.

41 atms; rate of heat flow up to $2,5 \times 10^6$ kcal/m^2 hr; underheating of liquid 3 - 120°C; and water speed of 0.7 - 11.5 m/sec. Hitherto there has been no means of collecting experimental data on this subject, so the aim was to formulate the results as a relationship between the water content and the other parameters investigated, expressed in simple non-criterial form. Empirical formulae were obtained for the water and steam content during boiling of water in a tube 5.6 mm diameter with the range of variables already given. The general graphs of the results are given in logarithmic coordinates in Fig.3. All the points lie within ± 20% of a straight line. The scatter of the points is apparently due not so much to errors of measurement as to the instability of the actual process of steam formation. The empirical formulae are valid for tubes and channels heated over the entire perimeter and with geometrical dimensions similar to those of the experimental tube. Further work will be needed to establish the influence of tube dimensions and geometry on the results.

Card 4/4

There are 3 figures.

ASSOCIATION: Institute of Atomic Energy of the Ac.Sc. USSR. (Institut Atomnoy Energii AN SSSR).

AVAILABLE: Library of Congress.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

SOV/96-58-5-10/27

AUTHORS: Poletavkin, P.G., Candidate of Technical Sciences and Shapkin, N.A., Engineer

TITLE: Heat-transfer during the Surface-boiling of Water (Teplootdacha pri poverkhnostnom kipenii vody)

PERIODICAL: Teploenergetika, 1958, Nr 5, pp 49 - 54 (USSR)

ABSTRACT: Special attention is now being paid to boiling-water reactors in which the heat-transfer medium is ordinary water. Boiling may be classified into two types, depending on the temperature of the liquid: boiling of liquid when the whole volume has been heated to the saturation temperature; and boiling in a boundary layer, or surface-boiling, when the main mass of the liquid is not heated to the saturation temperature. Both types of boiling can occur in boiling-water reactors and, it is therefore important to know the heat-transfer relationships in both cases. The study of surface boiling commenced relatively recently and much still remains to be done. This work describes new experimental results thereon and compares the results both with those of the ENIN AN SSSR (Power Institute of the Ac.Sc. USSR) and with design formulae, which are valid over a wide range of conditions.
The experimental equipment was very similar to that used to

Card1/4

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

SOV/96-58-5-10/27

Heat-transfer during the Surface-boiling of Water

investigate steam and water contents during the same process, which was described in Teploenergetika, 1958, Nr 4. The vertical experimental section was a tube of stainless steel of internal diameter 5.6 mm, 225 mm long. The tests on heat-transfer and on water and steam content were made simultaneously. In addition to the general measurements, measurements were made of the wall temperature of the experimental tube at three places along its length. Because of the use of a long heater, the temperature of the liquid and the degree of underheating varied by some tens of degrees on the test length. Thus, the experiments were specially informative. The tests were made at pressures of 7.16 and 41 atm., heat flow rates of up to 2.5×10^6 kcal/m^2hour, underheating of 3 - 120 °C, and circulation rates of 0.7 - 11.5 m/sec. Fully developed methods are not available for working out experimental data on heat transfer during surface boiling or even during ordinary boiling. It is, therefore, very difficult to compare the results of different authors. However, two empirical relationships were derived for heat transfer during surface boiling, one for the case when the temperature of the liquid is not much below the saturation temperature and the

Card2/4

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other for large degrees of underheating. These formulae satisfy the present experimental data and also the data given by the Power Institute of the Ac.Sc. USSR, which are plotted in Figure 4. The agreement between the test results confirms that the dimensions of the equipment have little influence on heat-transfer during surface-boiling.
The data of the Power Institute of the Ac.Sc. USSR for large degrees of underheating lie above the curve corresponding to our equation. Analysis of the experimental methods showed that the diphenyl mixture which was used as an auxiliary liquid to measure the temperature of the heating surface could be cooled on the test length. This caused an error in the determination of the temperature head between the heating surface and the boiling liquid. The error can be corrected by means of the curve given in Figure 5. The results of the Power Institute of the Ac.Sc.USSR when corrected in this way are plotted in Figure 6, and show good agreement with our own test results and curves.
With high rates of heat flow, the liquid is strongly heated, so that its physical properties change; therefore, heat-transfer calculations in heavily loaded heat exchangers should

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SOV/96-58-5-10/27

Heat-transfer During the Surface-boiling of Water

be made at a number of sections on the heating duct. It is then possible to establish reasonably accurately the boundaries of the different types of heat exchange, namely, convective heat exchange, surface-boiling and bulk-boiling. An explanation is given of how individual factors in the formulæ affect the process of heat exchange during surface-boiling. There are 7 figures, and 5 Soviet references.

Card 4/4 1. Heat transfer--Theory 2. Water--Heat transfer 3. Homogeneous reactors--Performance

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAVKIN, P.G., kand. tekhn. nauk

Hydraulic resistance in connection with surface boiling of water.
Teploenergetika 6 no.12:13-18 D '59. (MIRA 13:3)
(Thermodynamics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAVKIN, P.G., kand.tekhn.nauk

Studying the water and steam content during the surface boiling of water. Teploenergetika 7 no.9:67-71 S '60. (MIRA 14:9)

(Heat--Transmission) (Boiling)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

ANDREYEV, M.M.; BERMAN, S.S.[deceased]; BUGLAYEV, V.T.; KOSTROV, Kh.N.; PALEYEV, K.M., inzh., red.; POLETAVKIN, P.G., kand. tekhn. nauk, retsenzent; DEMKINA, N.F., tekhn. red.

[Heat exchangers of power engineering systems] Teploobmennaia apparatura energeticheskikh ustanovok. [By] M.M. Andreev i dr. Moskva, Mashgiz, 1963. 239 p. (MIRA 16:12)

(Heat exchangers)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

SHUMYATSKIY, B. Ya.; POLETAVKIN, P. G.; MALYGIN, Y. S.

"MHD generator unit with incomplete combustion of fuel."

report submitted for Intl Symp on Magnetohydrodynamic Electrical Power Generation, Paris, 6-11 Jul 64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 09266-67 EWT(m) FDN/DJ

ACC NR: AP6029884 (A) SOURCE CODE: UR/0413/66/000/015/0046/0047

31

INVENTORS: Chetchuyev, G. A.; Poletavkin, Yu. P.

ORG: none

TITLE: Arc quenching device for an oil tank switch. Class 21, No. 184310

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 46-47

TOPIC TAGS: electric switch, ~~arc-suppression~~ electric arc

ABSTRACT: This Author Certificate presents an arc quenching device for an oil tank switch with multiple contact breaking, an arc quenching network displaced relative to the cylinder axis, a movable contact bridge, and a piston attachment. To increase the reliability of operation, the contact rods are connected with the contact bridge by ball-and-socket joints (see Fig. 1). Disconnecting springs are located between the contact rods. The piston attachment is built in along the cylinder axis and controls a regulated support mounted at the center of the contact bridge. Hinged covers on the exhaust slots are provided with hydraulic dampers.

UDC: 621.316.542.064.25.027.3

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 09266-67

ACC NR: AP6029884

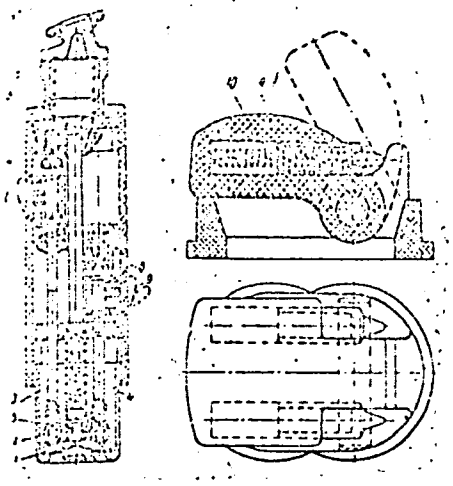

Fig. 1. 1 - contact bridge; 2 - ball-and-socket joint; 3 - contact rods; 4 - disconnecting spring; 5 - regulated support; 6 - piston attachement rod; 7 - piston attachment; 8 - arc quenching network; 9 - hinged cover; 10 - hydraulic damper

Orig. art. has: 1 diagram.

SUB CODE: 09, 13/ SUBM DATE: 04May64

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

ACC NR: AP6029865 (A)

INVENTORS: Chetchuyev, G. A.; Poletayev, Yu. P.

ORG: none

TITLE: Current removal device for high voltage switches. Class 21, No. 164311

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 47

TOPIC TAGS: high power switch, electric switch

ABSTRACT: This Author Certificate presents a current removal device for high voltage switches, containing a conducting rod and a system of contact units placed in a cylindrical case. To increase the stability of switch operation, each of the contact units is L-shaped. A fixed or rotary bushing making contact with the rod is mounted on the current removal end of the contact unit. A spring mounted at the same end presses against the nonconducting end of the neighboring contact unit. To decrease the dimensions and to increase the dynamic stability, the spring is shifted relative to the radial axis of the bushing. To decrease the consumption of conducting material, the nonconducting end of each contact unit is made of insulating material, e.g., plastic.

SUB CODE: 09/ SUBM DATE: 03Dec64

Card 1/1 UDC: 621.316.542.064.25.027.3.066.6

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

ACC NR: AT6033085 SOURCE CODE: UR/2582/66/000/016/0171/0190

AUTHOR: Poletayev, I. A. (Novosibirsk)

ORG: none

TITLE: Mathematical models of elementary processes in biogeocenoses

SOURCE: Problemy kibernetiki, no. 16, Moscow, 1966, 171-190

TOPIC TAGS: mathematic model, biologic ecology, model theory, Volterra equation

ABSTRACT: The basic principles and concepts for the construction of models of this kind are defined. Mathematical models may be constructed in the following stages: selection of meta-theory, coding of the model, formulation of constraints, and operation of the model itself. The construction of search models based on the Volterra model (V. Volterra, U. d'Ancona. Les associations biologiques au point de vue mathematique, Paris, 1935), employing the apparatus of differential equations, is described. The models deal with situations relating to nutrition (food, and competition for food between populations of K species coexisting on the same territory). As distinct from Volterra, however, the author introduces the measure of activity $\mu_{jk} \geq 0$, (where $j(j=1,2,\ldots,J)$ is the type of activity (metabolism, reproduction, procure-

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ACC NR: AT6033085

ment of food, etc.) and k is a given population (k=1, 2, . . ., K). The construction of a large number of such simple models of elementary interactions (symbiosis, parasitism, infections, etc.) within a biogeocenosis would facilitate the mathematical determination of causal and critical relationships in nature. Orig. art. has: 7 figures, 2 formulas.

SUB CODE: 06, 12 / SUBM DATE: 25Feb65/ ORIG REF: 008/ OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

PEREPECHENKO, P.; SOKOLOV, G.; AVDOSHENKO, A., red.; PEREPECHENKO,P., red.; POLETAYEV, A., red.; RASTORGUYEVA, N., red.; SOKOLOV,G., red.; KHAYKIN, I., red.; KHOKHOLKOV, N., red.; SHVETSOVA, R.V., red.; SOKOLOVA, S.I., tekhn. red.

[Excursions through native territory; routes and discussion materials] Ekskursii po rodnomu kraiu; marshruty i materialy dlia besed. Vologda, Vologodskoe knizhnoe izd-vo, 1963. 255 p. (MIRA 17:1)

1. Vologda. Gosudarstvennyy pedagogicheskiy institut.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A., polkovnik.

"Firing heavy machine guns." N.P. Semikolenov. Reviewed by A.Poletaev. Voen.vest. 36 no.9:90-92 S '56. (MLRA 9:10)
(Machine guns) (Semikolenov, N.P.)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

Name : POLETAYEV, A.

Title : Candidate of Physico-Mathematical Sciences.

Remarks : A. POLETAYEV is the author of an article entitled "Cause of the Change in Luminescence of Sputniks".

Source : M: Stantsii v Kosmose (Stations in Outer Space), a collection of articles, published by the USSR Academy of Sciences, Moskva, 1960, with foreword by Academicians A. N. Nesmeyanov and A. V. Topchiyev, p. 191.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

PHASE I BOOK EXPLOITATION SOV/4946

Mikhaylov, A. A., ed.

Stantsii v kosmose; sbornik statey (Space Stations; Collection of Articles) Moscow, Izd-vo AN SSSR, 1960. 444 p. 25,000 copies printed. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya Seriya)

Resp. Ed.: A. A. Mikhaylov; Compiler: V. V. Fedorov; Ed. of Publishing House: Ye. M. Klyaus; Tech. Ed.: I. D. Novichkova.

PURPOSE: This book is intended both for the space specialist and the average reader interested in space problems.

COVERAGE: The book contains 73 short articles by various Soviet authors on problems connected with space travel and the launching of artificial earth satellites and space rockets. Some possibilities of future developments are also discussed. The articles were published in the period of 1957-1960. No personalities are mentioned. There are no references.

II. PRELIMINARY RESULTS OF SPACE INVESTIGATION

Nesmeyanov, A. N. Historical Frontier [October 4, 1958] 72

Tonchinov, A. V. First Scientific Results of the Flight of Soviet Sputniks [March 26, 1958] 75

Soviet Artificial Earth Satellites [Pravda, October 9, 1957] 78

Mikhanovich, V. V., Candidate of Physical and Mathematical Sciences. Automatic Laboratory in Space [November 14, 1957] 90

Krasovskiy, V. I., Doctor of Physical and Mathematical Sciences. Investigation of the Upper Atmosphere With the Help of the Artificial Earth Satellite [October 10, 1957] 93

Soviet Artificial Earth Satellites [Pravda, April 27, 1958] 96

Batrakov, Yu. V. Candidate of Physical and Mathematical Sciences. On the Way to an Understanding of the Universe [December 4, 1957] 112

Ginzburg, V. L., Corresponding Member of the Academy of Sciences USSR, and L.V.Kurnosova, Candidate of Physical and Mathematical Sciences. The Sun, Cosmic Radiation, and Sputniks [November 14, 1957] 115

Sergeyev, K., Professor. Investigation of Outer Space [December 11, 1957] 118

Third Soviet Artificial Earth Satellite [Pravda, May 18, 1958] 124

Discoveries, Widening Knowledge About the Universe [Pravda, October 5, 1958] 153

Mitrov, B. A., Candidate of Physical and Mathematical Sciences. In Outer Space - Our Third Sputnik [July 1958] 174

Kukarkin, B. V., Doctor of Physical and Mathematical Sciences. Lenses Look Into Outer Space [March 22, 1956, December 11, 1957] 183

Arsent'yev, V. V. Sputnik on a Photo Plate [March 1958] 188

Martynov, D. Ya., Doctor of Physical and Mathematical Sciences. Scout of the Mysteries of the Universe [May 18, 1958] 190

Poletayev, A., Candidate of Physical and Mathematical Sciences. Why Does the Amount of Reflected Light From the Sputniks Change? [September 12, 1958] 191

Poloskov, S. M. High Altitude Laboratories [May 16, 1958] 192

Massevich, A. G., Doctor of Physical and Mathematical Sciences. Outer Space Laboratory [1958] 194

Fedorov, Ye. K., Corresponding Member of the Academy of Sciences USSR. Assault on Outer Space [1958] 204

Isakov, F., Candidate of Biological Sciences. Life on the Sputnik [November 14, 1957] 214

Poletayev, A.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

L 01936-67

ACC NR: AP6030913 SOURCE CODE: UR/0018/66/000/009/0023/0023

AUTHOR: Golofast, G. (Brigadier general); Sayko, V. (Colonel); Timoshenko, A. (Colonel); Spuskanyuk, G. (Colonel); Poletayev, A. (Lieutenant colonel)

ORG: none

TITLE: Motorized rifle battalion in defensive operations

SOURCE: Voyennyy vestnik, no. 9, 1966, 23 and pages 26-37

TOPIC TAGS: military operation, ground force tactic, artillery weapon, military tank, military training

ABSTRACT: The authors discuss the defensive capability of a motorized rifle battalion in modern warfare. The plan of organization for defense is analyzed under conditions of direct contact with the enemy. Problems are discussed concerning the engineering support of the battalion defense area and the military operations for repelling the attacks of military tanks and infantry subunits. The duties of the battalion commander, battalion commanding personnel, and artillery battalion commander are analyzed in detail for a concrete tactical plan. [NT]

Orig. art. has: 2 figures and 1 table.

SUB CODE: 15/ SUBM DATE: none/

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

AYZIN, B.A.; POLETAYEV, A.A., redaktor; GULYGA, A.V., redaktor; NEVRAYEVA, N.A., tekhnicheskiy redaktor.

[Upswing of the workers' movement in Germany at the beginning of the 20th century, 1903-1906] Pod"em rabochego dvizheniia v Germanii v nachale XX veka (1903-1906gg). Moskva, Izd-vo Akademii nauk SSSR, 1954. 160 p. (MLRA 8:2)

(Germany--Labor and laboring classes)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A. F. (Engr)

POLETAYEV, A. F. (Engr) -- "Dynamograph MAMI-1 on the Drive Wheel of a Tractor, Its Theoretical and Experimental Investigation." Sub 31 Oct 52, Moscow Automotive Mechanics Inst. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Vechernaya Moskva, January-December 1952

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., kandidat tekhnicheskikh nauk.

MAMI-3 traction dynamograph. Sel'khozmashina no.2:24-25 F '54. (MLRA 7:2)

(Dynamometer)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., kand.tekhn.nauk

Rolling of a driving wheel. Trakt. i sel'khozmash. no.1:11-15 Ja '64. (MIRA 17:4)

1. Moskovskiy avtomekhanicheskiy institut.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F.

BARSKIY, I.B., kandidat tekhnicheskikh nauk; POLETAYEV, A.F., kandidat tekhnicheskikh nauk.

Problem of field tests for tractors. Nauch.trudy MAMI no.6:3-7 '56. (Tractors--Testing) (MLRA 10:2)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., kandidat tekhnicheskikh nauk; EGLIT, I.M., inzhener.

Apparatus designed by the Moscow Automotive Engineering Institute for testing tractors in the field. Nauch.trudy MAMI no.6:8-43 '56. (MLRA 10:2)
(Tractors--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., kand.tekhn.nauk; KOLOBOV, G.G.

Load-carrying ability of pneumatic tractor tires. Trakt. i sel'-khozmash. no.1:10-13 Ja '59. (MIRA 12:1)

1. Moskovskiy avtomekhanicheskiy institut.
(Tractors--Tires)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., kand.tekhn.nauk

Rolling of driven wheel. Trakt. i sel'khozmash. 33 no.2:5-7 F '63. (MIRA 16:3)

1. Moskovskiy avtomekhanicheskiy institut.
(Wheels)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., dotsent, kand.tekhn.nauk; KOLOBOV, G.G., inzh.

Laboratory tests of tractor tires. Izv.vys.ucheb.zav.; mashinostr. no.3:177-190 '59. (MIRA 13:3)

1. Moskovskiy avtomekhanicheskiy institut.
(Tractors--Tires--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341720010-2

POLETAYEV, A.F., kand.tekhn.nauk

Packing of the soil during the rocking of a wheel. Trakt.i sel'khozmash. no.8:1-5 Ag '62. (MIRA 15:8)

1. Moskovskiy avtomekhanicheskiy institut.
(Soil mechanics)

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