"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

LEYPUNSKIY, A. I.; KAZACHKOVSKIY, O. D.; AFRIKANTOV, I. I.; PINKHASIK, M. S.; KRASNOYAROV, N. V.; POYDO, M. S.

Sodium-cooled fast reactors. Atom. energ. 17 no.5:345-348 N '64. (MIRA 17:12)

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L 20049-65 EPF(c)/EPF(n)-2/EPR/EPA(s)-2/EWT(m)/EPA(bb)-2/EWP(b)/EWP(t)
Pr-4/Ps-4/Pt-10/Pu-4 SSD/AFWL/IJP(c) DM/WW/JD/JG
ACCESSION NR: AP4049534 S/0089/64/017/005/0345/0348

AUTHORS: Leypunskiy, A. I.; Kazachkovskiy, O. D.; Afrikantov, I. I.; Pinkhasik, M. S.; Krasnoyarov, N. V.; Poydo, M. S.

TITLE: Sodium cooled fast reactors 19

27

B

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 345-348

TOPIC TAGS: power reactor, liquid metal cooled reactor, fast reactor/BN-350

18

ABSTRACT: The first fast-neutron power reactor now being designed in the SSSR (BN-350) is described. It is rated 1000 MW thermal and 350 MW electrical. Sodium coolant at 300C (total volume 165 m^3) is heated in the reactor to 500C by about 200 fuel elements. The volume of the active zone (~2000 liters) and the power ratio (500 kW/liter) ensure a minimum use of fuel in the cycle. The ratio of the diameter of the active zone to its height (D/H) is 1.4 (D = 1.5

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L 20049-65
ACCESSION NR: AP4049534

m, H = 1.06 m), the maximum sodium speed is 10 m/sec, the thickness of the breeder zones on the periphery and on the end is 60 cm. The construction permits the active zone size to be varied and to use different types of fuel elements. A ceramic fuel element is used consisting of a mixture of plutonium dioxide (19% Pu) and U^{238}. Enriched (23%) uranium dioxide can also be used. The fuel rod is a stainless steel tube 5 mm in diameter and 0.4 mm thick, filled with pellets of the sintered fuel. The arrangement of the active and breeder zones is such as to produce a conversion ratio ~1.5. The internal conversion ratio is 0.62. The change in reactivity is 0.6% per month and is compensated by motion of central fuel elements with a reactivity margin of 1.4%, permitting 2 months' continuous operation. The shielding, control, and safety precautions are described. The sodium flows through a heat exchanger in which steam is produced at 430C and 50 atm pressure. Some improvements are suggested for future designs on the basis of the experience already gained in the design of the BN-350. Orig. art. has: 1 figure.

Card 2/3

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L 14464-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 AEDC(b)/AFWL/ESD/SSD
DM

ACCESSION NR: AP4036523 S/0089/64/016/005/0407/0413

8

AUTHOR: Bagdasarov, Yu.Ye.; Kazachkovskiy, O.D.; Pinkhasik, M.S.; Py*shin, V.K.

TITLE: Study of unsteady operating conditions for natural circulation in multiloop designs of nuclear reactors 19

SOURCE: Atomnaya energiya, v. 16, no. 5, 1964, 407-413

TOPIC TAGS: nuclear reactor cooling, liquid metal cooling, unsteady reactor operating condition, reactor emergency shutdown

ABSTRACT: The authors have developed a method of computation of unsteady operating conditions (emergency shutdown) for natural circulation in multiloop designs of nuclear reactors. The essential point to be considered is the delay factor which depends on the heat exchange between the coolant and the stationary parts of the loop (pipes); the geometry of the heat exchanger is important. Since exact solutions are impossible because of the complexity of the problem, the authors have worked out an approximate system of equations which was programmed on an electronic computer. In the computations, the delay, coolant flow rate, heat losses through insulation, and heat exchange between the steel structure and liquid sodium were considered. Experimental results are in good agreement

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L 14464-65

ACCESSION NR: AP4036523

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with the computations. Of the factors mentioned above, the most important one is the heat exchange between the coolant (sodium) and the stationary part of the structure. The natural circulation is a reliable cooling method for nuclear reactors. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 03Oct63 ENCL: 00

SUB CODE: NP NO REF SOV: 003 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHASIK, Z.

Whose interests does the public prosecutor defend? Okhr. truda i sets. strakh. no.1:95 Jl '58. (MIRA 11:12)

1.Tekhnicheskiy instruktor Belorusskogo respublikanskogo soveta profsoyuzov, Minsk.

(Minsk--Housing)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

ACCESSION NR: AT4040806 S/3099/62/000/001/0189/0196

AUTHOR: Askarov, M. A.; Dzumerkas, N. D.; Pinkhasov, S. R.

TITLE: A study of the copolymerization of acrylonitrile with esters of acrylic acid

SOURCE: AN UzSSR. Institut khimii polimerov. Fizika i khimiya prirodny*kh i sinteticheskikh polimerov, no. 1, 1962, 189-196

TOPIC TAGS: copolymerization, acrylic ester copolymer, acrylonitrile copolymer, polymer structure, polymer physical property, propylacrylate, butylacrylate, amylacrylate, polymer solubility

ABSTRACT: The authors first describe the synthesis of n-propyl, n-butyl and n-amyl acrylate by the simultaneous saponification and esterification of acrylonitrile in the presence of the appropriate alcohol, H_2SO_4 and hydroquinone. After purification of both the ester and the acrylonitrile, their block copolymerization was then studied at 60C. Measured amounts of the monomers were placed into ampules with a benzoyl peroxide catalyst (0.5% by weight), sealed and placed into an oven at 60C for 32 hours. The yields were 63-91% of the theoretical. A detailed investigation of the properties of the copolymers at ratios of acrylonitrile to esters of 90:10, 75-25, 50:50, 25-75, 10:90, and 0:100 showed a consistent relationship between

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ACCESSION NR: AT4040806

polymer structure, properties and the ratio of the monomers. Thus, no matter which ester was used, solid yellow copolymers with high values of specific viscosity and % N but limited solubility (only in dimethylformamide) were obtained at acrylonitrile: ester ratios of 90:10 and 75:25. At ratios of 50:50 and 25:75, soft yellow polymers were obtained with lower viscosity and % N but wider solubility, and at a 10:90 ratio, a transparent viscous polymer was obtained which resembled that from the pure acrylic esters (low specific viscosity and solubility in all organic solvents tested). Orig. art. has: 4 tables and 3 chemical equations.

ASSOCIATION: Institut khimii polimerov AN UzSSR (Institute of Polymer Chemistry, AN UzSSR)

ENCL: 00

SUBMITTED: 00

NO REF SOV: 000

OTHER: 010

SUB CODE: OC

Card 2/2

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deceased

L 25639-65 EPF(c)/EPR/EPA(s)-2/EWP(j)/EWT(m)/T Pc-4/Pr-4/Ps-4/Pt-10
RPL RM/WW/JT
ACCESSION NR: AP5005263 S/0291/64/000/006/0045/0050

49
39
B

AUTHOR: Askarov, M. A.; Pinkhasov, S. R. (Deceased)

TITLE: The synthesis and polymerization of some chloroacrylates

SOURCE: Uzbekskiy khimicheskiy zhurnal, no. 6, 1964, 45-50

TOPIC TAGS: plastic , acrylate, methacrylate, chloroalkyl acrylate, chloroalkyl methacrylate, polymer solubility, organic solvent, flame resistant plastic , corrosion resistant plastic

ABSTRACT: β-chloroethyl and δ-chlorobutyl acrylates and methacrylates were obtained in high yields by a direct esterification of ethylene or tetramethylene chlorohydrin with the corresponding acid in the presence of 3.5—4% H_2SO_4 added as catalyst. The obtained monomers polymerized readily under the effect of benzoyl peroxide, day- or UV-light, or heating to 60 ± 1C. Glassy, colorless, transparent polymers were obtained which were insoluble in the organic solvents and only swelled in polar solvents (slightly in aromatic hydrocarbons). It was found that oxygen inhibits this polymerization. The insolubility was explained by crosslinking of double bonds formed as the result of a partial splitting off of HCl. The chloro-

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L 25639-65
ACCESSION NR: AP5005263

acrylates or chloromethacrylates obtained are prospective polymers which can be modified by the introduction of new groups and can be used for manufacturing flame- or corrosion-resistant plastics. Orig. art. has: 3 tables and 1 formula. [BN]

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii i tekhnologii khlopkovoy tsellyulozy Goskomiteta khimicheskoy promyshlennosti pri Gosplane SSSR (Scientific Research Institute of Chemistry and the Technology of Cotton Cellulose of the State Committee of the Chemical Industry of Gosplan, SSSR)

SUBMITTED: 19Dec63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 004 OTHER: 012 ATD PRESS: 3185

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

TRUB, Izrail' Ayzikovich; MONOKROVICH, Eduard Isaakovich; MIKHAYLOVA, Ye.N., redaktor; PINKHASOV, Ya.B., tekhnicheskiy redaktor

[Using waste industrial heat in greenhouses and hothouses] Ispol'zovanie otbrosnogo tepla promyshlennosti v teplitsakh i parnikakh. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1955. 91 p. (MLRA 9:10)
(Greenhouses) (Heat engineering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

KUNYAVSKIY, M.P., kandidat ekonomicheskikh nauk, redaktor; TATUR, P.K., kandidat tekhnicheskikh nauk, redaktor; BONDARENKO, M.N., redaktor; PINKHASOV, Ya.B., tekhnicheskiy redaktor

[Manual for machine-tractor station engineers and organizers of land use] Spravochnik inzhenera-zemleustroitelia MTS. Pod obshchei red. M.P.Kuniavskogo i P.K.Tatur. Tashkent, Gos. izd-vo UzSSR, 1955. 342 p. (MIRA 9:8)

1. Uzbek S.S.R. Ministerstvo sel'skogo khozyaystva. Upravleniye zemleustroystva.
(Agricultural engineering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

MAKAREVICH, V.A., ISHCHENKO, I.P., [illegible], T.[illegible], [illegible]INKHA[illegible], [illegible].

Bacteriological and immunological data on the significance of autoimmune mechanisms in dysentery and ulcerative colitis. Zhur. mikrobiol., epid. i immun. 43 no. 1[illegible]-3[illegible] Ja '66 (MIRA [illegible])

1. Tadzhikskiy [illegible] imeni [illegible]. Submitted January 1965.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHASOVICH, A. . Cand. Tech. Sci.

Dissertation: "Structure of the thread in needles of knitting machines." 15 Sep 4[illegible]

Moscow Textile Inst.

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, D. M.

PA 175172

USSR/Oceanography - Northern Sea Route Jul/Aug 50

"Historic Stages in the Conquering of the Northern Sea Route," D. M. Pinkhenson

"Iz v-s Geograf Obshch" Vol LXXXII, No 4, pp 396-411

History of development of the northern sea route from 15th century to now. Last figures given are for 1936, when 14 ships navigated entire route. Mentions industrial centers of Kirovsk, Monchegorsk, Vorkuta, Amderma, Noril'sk, Igarka, Anadyr', and Magadan. No data given on postwar exploitation of route.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, Dmitriy Moiseyevich, kand. geogr. nauk, dots.; GAKKEL', Ya.Ya., doktor geogr. nauk, prof., red.; CHERNENKO, M.B., red.; FRISHMAN, Z.S., red.izd-va; KOZLYAKOVA, O.I., tekhn. red.

[History of the discovery and adoption of the Northeast Passage] Istoriia otkrytiia i osvoeniia Severnogo morskogo puti. Leningrad, Izd-vo "Morskoi transport." Vol.2. [Northeast Passage in the period of capitalism] Problema Severnogo morskogo puti v epokhu kapitalizma. Pod red. IA.IA.Gakkelia, M.B. Chernenko. 1962. 765 p. (MIRA 17:3)

1. Leningrad. Arkticheskiy nauchno-issledovatel'skiy institut.
2. Deystvitel'nyy chlen Geograficheskogo obshchestva SSSR (for Chernenko)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSOVICH, L. L.

7

Problems of Metallurgy. Academy of Sciences of the U.S.S.R., Moscow, 1953. **Mechanical Properties of Bessemer Low-Alloy Structural Steel.** N. P. Shchapov and E. S. Volognyvanskaya. (409-441). [In Russian]. An account is given of a comprehensive investigation of the mechanical properties of a low-alloy Bessemer steel (0·06–0·13% C, 0·28–0·64% Mn, trace-0·44% Si, 0·044–0·051% P, 0·026–0·048% S, 0·00–0·90% Cr, 0·00–0·55% Ni, 0·04–0·44% Cu, 0·013–0·018% N_2, 0·00008–0·00019% H_2, 0·00179–0·0165% O_2). The main conclusions drawn are: through alloying, the steel is actually less liable to brittle fracture than the corresponding O.H. steel and has a higher yield point; the ageing properties and sensitivity to stress-concentration in cyclic loading remain relatively poor. It is suggested that by using other measures in addition to alloying, the properties of Bessemer steel can be improved still further. **Investigation of Processes Occurring during the Tempering of Hardened Steel.** K. F. Starodubov. (442–450). Changes occurring in hardened steel during tempering, mainly at 300–550° C, are described and explanations are proposed. **Primary Structure of the Ingot and its Effect on the Properties of Steel.** A. P. Pronov. (451-456). Unlike the finely crystalline primary structure of a carbon steel ingot, a dendritic one is characteristic of correct production conditions and results in good mechanical properties both at high and low temperatures. Factors governing the type of primary structure formed have been partially elucidated. **Main Questions in the Rail Problem.** L. L. Pinkhusovich. (457-461). The problem of rail quality as it has been dealt with in the U.S.S.R. is reviewed and the main factors involved are discussed.—S. K.

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Stress

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSOVICH, L. L.

GRDINA, Yu. V.; BABICH, G. F.; GRUZDEV, D. S.; PINKHUSOVICH, L. L.

"Study of Kerch Arsenic Rails (Kerchenskikh mysh'yakovistykh rel'sov)," Iz. Ak. Nauk SSSR, Otdel, Tekh. Nauk, No.2, 1941. Submitted 30 Sep 1940.

Report U-1530, 25 Oct 1951

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSOVICH, I. L.

The Quality of and Satisfactory Service Obtained from Rails of Siemens-Martin Steel from Kosch. I. L. Pinkhusovich and O. N. Uskova (Bulletin de l'Académie des Sciences U.R.S.S., Classe des Sciences Techniques, 1948, pp. 1421-1430 [in Russian]; Chemical Abstracts, 1949, vol. 43, June 10, cols. 4201-4202). The arsenic content of 0.09-0.15% appeared to have no influence on abrasion and break tests, or on the results of experimental operation. The phenomena of aging and slight resistance to fatigue observed in the laboratory also had no effect on the service obtained from the rails.

ASB SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

POPOVA, V.M., kandidat sel'skokhozyaystvennykh nauk, redaktor; BONDARENKO, M.N., redaktor; PINKHASOV, Ya.B., tekhnicheskiy redaktor

[Principles of livestock raising] Osnovy zhivotnovodstva. Tashkent, Gos. izd-vo Uzbekskoi SSR, 1955. 234 p. (MLRA 9:12)
(Stock and stockbreeding)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

POPOV, Viktorin; LEVITINA, S.A., red.; PINKHASOV, Ya.V.

[Chardzhou-Kungrad; along the track with a notebook]
Chardzhou - Kungrad; s bloknotom po trasse. Tashkent,
Gos.izd-vo UzSSR, 1947. 29 p. (MIRA 16:8)
(Soviet Central Asia--Railroads--Location)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

URETSKAYA; VISHNYAKOVA; BORISOV; PINKHASOVICH; MURADOV; REGEL'MAN; OSERSKIY; PYATOV; BOKSERMAN; GORPISHCHENKO; YEREMENKO; ZHARKOV; POPOV; ROMANOVA; SIDORENKO; TODRIN; TIMOVEYEVA.

Dmitrii Sergeevich Pavlov; obituary. Gaz. prom. no.1:56 Ja '58. (Pavlov, Dmitrii Sergeevich, 190[illegible]-1957) (MIRA 11:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, D.M.; SUROVTSEV, N.S.

Deficiencies in the training of students in economic geography. Geog. v shkole 22 no.1:42-44 Ja-F '59. (MIRA 12:4)
(Geography, Economic--Study and teaching)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

AUTHOR: Pinkhenson, D.M.

12-1-12/26

TITLE: D.I. Mendeleyev and the Utilization of Russia's Far North (D.I. Mendeleyev i osvoyeniye kraynego severa Rossii)

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958, # 1, pp 69-75 (USSR)

ABSTRACT: The article deals with Dmitry Ivanovich Mendeleyev, a great Russian nineteenth century scientist, who stressed the great importance of developing the Northern and Arctic regions. There are 11 Russian references.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

KOVYAZIN, N.; PINKHENSON, D.

"Ukrainian Soviet Socialist Republic." Ol.T.Dibrova. Reviewed by N.Koviazin, D.Pinkhenson. Geog. v shkole 19 no.4:75 Jl-Ag '56. (Ukraine--Economic conditions)(Dibrova,Ol.T.) (MLRA 9:10)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, D. M.

"Role of natural resources in the development of productive capacities" by L. I. Gurvich[deceased]. Reviewed by D. M. Pinkhenson. Izv. Vses. geog. ob-va 94 no.6:532-533 N-D '62. (MIRA 16:1)

(Economic history) (Natural resources)
(Gurvich, L. I.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, D.M., kand. geograficheskikh nauk

Makarov's project of an icebreaker for an Antarctic expedition. Inform. biul. Sov. antark. eksp. no.36:41-44 '62. (MIRA 16:4)

1. Gosudarstvennyy pedagogicheskiy institut imeni Gertsena.
(Ice-breaking vessels)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, D.M.

Pages from the history of the White Sea - Baltic Canal. Ist. Sov. 3:207-211 '62. (MIRA 15:8)

1. Pedagogicheskiy institut imeni A.I.Gertsena, Leningrad. (White Sea--Baltic Canal)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON

BARSOV, Nikolay Nikolayevich, dotsent, kand.geograf.nauk; BORIFAT'YEVA, Lidiya Ivanovna, dotsent, kand.geograf.nauk; BURKHEO, Sergey Fedorovich, dotsent, kand.geograf.nauk; GITLITS, Semen Aleksandrovich, dotsent, kand.ekonom.nauk; GUREVICH, Prism Vladimirovich, prof.; DARINSKIY, Anatoliy Viktorovich, dotsent, kand.geograf.nauk; DOLININ, Aleksey Arkad'yevich, dotsent, kand.geograf.nauk; DOROSHKEVICH, Lyudmila Ivanovna, dotsent, kand.geograf.nauk; YEFIMOVA, Yelena Semenovna, kand.geograf.nauk; LAVROV, Sergey Borisovich, dotsent, kand. geograf.nauk; LEDOVSKIKH, Stepan Ivanovich, dotsent, kand.geograf. nauk; NEVEL'SHTEYN, Grigoriy Solomonovich, dotsent, kand.geograf. nauk; NIKOLAYEVA, Nadezhda Vasil'yevna, dotsent, kand.geograf. nauk; OGANESOV, Vladimir Artem'yevich, kand.geograf.nauk; PINKHENSON, Dmitriy Moiseyevich, dotsent, kand.geograf.nauk; POSPELOVA, Nateliya Georgiyevna, prof., doktor ekonom.nauk; SEMEVSKIY, Boris Nikolayevich, prof., doktor geograf.nauk; SUTYAGIN, Pavel Grigor'yevich, dotsent, kand.geograf.nauk; SHTEYN, Viktor Moritsovich, prof., doktor ekonom.nauk; YEROFEYEV, I.A., red.; SMIRNOVA, N.P., red.; TYUTYUNNIK, S.G., red.kart; BORISKINA, V.I., red.kart; KOZLOVSKAYA, M.D., tekhn.red.

[Economic geography of foreign countries; student manual] Ekonomicheskaia geografiia zarubezhnykh stran; posobie dlia studentov. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 702 p. 4 maps (MIRA 13:12)

(Geography, Economic)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, D.M.

Tsarists "organizers" and interests in developing the North.
Izv.Vses.geog.ob-va 88 no.4:382-384 Jl-Ag '56. (MLRA 9:10)

(Russia, Northern--Geography, Economic)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

GEMBEL', Aleksandr Vasil'yevich; PINKHENSON, D.M.; PODOPLELOV, N.Ya.

[Natural resources of the U.S.S.R. serve the building of communism]Prirodnye bogatstva SSSR na sluzhbe kommunisticheskogo stroitel'stva. Leningrad, Ob-vo po rasprostraneniiu polit. i nauchn. znanii RSFSR, 1959. 33 p. (MIRA 15:9)
(Natural resources)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHENSON, Dmitriy Moiseyevich, doktor geogr. nauk; GORDIYENKO, P.A., kand. geogr. nauk, nauchn. red.

[New developments on the map of the U.S.S.R.; basic changes in the geography of the country during the Soviet period] Novoe na karte SSSR; osnovnye izmeneniia v geografii strany za sovetskii period. Leningrad, Ob-vo "Znanie" RSFSR, 1964. 43 p. (MIRA 18:3)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

AL'TMAN, L.P.; PINKHENSON, D.M.; CHERTOV, L.G.; SEMEVSKIY, B.N., prof., nauchnyy red.; VOROB'YEV, G.S., red.izd-va; GURDZHIYEVA, A.M., tekhn.red.

[Geography of great works] Geografiia velikikh rabot. Leningrad, Vses.ob-vo po rasprostraneniiu polit. i nauchn.znanii. Leningr. otd-nie, 1960. 39 p. (MIRA 13:7)
(Russia--Industries)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

LINDENBRATEN, [illegible] (Moskva)

[illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHOSEVICH, Ye.G.

X-ray archives in a therapeutic institution of the dispensary type. Vest. rent. i rad. 40 no.2:52-54 Mr-Ap '65.
(MIRA 18:6)

1. Kafedra rentgenologii i radiologii (zav.- prof. L.D. Linderbraten) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova i rentgenovskoye otdeleniye (zav. V.I. Palshkova) polikliniki No.1, Moskva.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSOVICH, I. I.

124-11-13556

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p. 72 (USSR)

AUTHOR: Pinkhusovich, I. I.

TITLE: On the Notch Sensitivity of Steel Railing
(O chuvstvitel'nosti rel'sovoy stali k nadrezam)

PERIODICAL: V sb.: Prochnost' metallov., Moscow, AN SSSR, 1956, pp 112-115

ABSTRACT: Bibliographic entry.

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSHOVICH, L. L., [illegible] ed.

Steel rails made from the ore of the [illegible] Peninsula. Moskva, Izd-vo [illegible] 1948. [illegible] 757[illegible]

[illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

Moscow

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MOGUCHIY, Leonid Nikolayevich; SAVITSKIY, Ye.M., otvetstvennyy redaktor; PINKHUSOVICH, L.L., redaktor izdatel'stva; ZEMLYAKOVA, T.I., tekhnicheskiy redaktor.

[Working metals under pressure] Obrabotka metallov, davleniem. Moskva, Izd-vo Akad.nauk SSSR, 1957. 198 p. (MLRA 10:4)
(Metalwork)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

BARDIN, I.P.; NIKONOV, A.G.; PINKHUSOVICH, L.L.

Investigation of the hardenability of wheel steel subjected to sliding friction. Trudy Inst.met.AN SSSR no.1:114-119 '57. (MIRA 10:11)

(Steel--Testing) (Car wheels)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

NIKONOV, A.G.; PINKHUSOVICH, L.L.

Investigating trial batches of low-alloy wheel-grade steel. Trudy Inst. met. no.11:90-98 '62. (MIRA 16:5)
(Chromium-vanadium steel--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

NIKONOV, A.G.; PINKHUSOVICH, L.L.

Wheel bandage wear. Trudy Inst. met. no.4:250-253 '60. (MIRA 14:5)

(Car wheels--Testing)
(Mechanical wear)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSOVICH, L.L.; NIKONOV, A.G.

Effect of hardening methods on the wear resistance and fatigue crumbling of all-rolled wheels. Izv. vys. ucheb. zav.; chern. met. no.10:126-131 '60. (MIRA 13:11)

1. Institut metallurgii im.A.A.Baykova AN SSSR.
(Steel--Fatigue) (Wheels--Testing)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

S [illegible] 12
A161/A03

AUTHORS: Pinkhusovich, L.L.; Nikonov, A.G.

TITLE: The Effect of the Quenching Method on Wear Resistance and on the Fatigue Crumbling of Rolled Seamless Wheels

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960, No. 10, pp. 126 - 131

TEXT: Rolled RR wheels are quenched in the USSR in a horizontal position by water jets directed on the rolling surface from tangentially placed pipes. This method has been compared with the U.S. method of quenching wheels in vertical position by rotation with a wheel rim portion submerged in water (Refs. 5 - 8). The test wheels were of standard steel with 0.53% C; 0.69% Mn; 0.27% Si; 0.029% P and 0.02% S. The hardness and the mechanical properties of wheels hardened by the U.S. method were better, they had pearlitic structure through the work portion and higher wear resistance in comparative tests on a IA Amsler test machine. In fatigue crumbling tests on the same Amsler machine, specimens taken at 12 and 30 mm distance from the surface of the wheels treated the U.S. way withstood 690,000 and 875,000 cycles, compared with 630,000 and 660,000 cycles withstood by

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

S/145/60/000/10/012/[illegible]
A161/A030

The Effect of the Quenching Method on Wear Resistance and the Fatigue Crumbling of Rolled Seamless Wheels

specimens from same spots treated in the Soviet-way. The higher crumbling resistance is explained by the different metal structure having a higher resistance to cracks formation. The conclusion was made that wheels quenched in a vertical position by periodical submersion of a portion of the rim into a running water will have higher resistance to wear and fatigue crumbling. There are [illegible] figures, 2 tables and [illegible] references: 5 Soviet and 3 English.

ASSOCIATION: Institut metallurgii im. A.A. Baykova AN SSSR (Institute of Metallurgy im. A.A. Baykov of the Academy of Sciences USSR)

SUBMITTED: November 26, 1959

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKHUSOVICH, L. L.

18(0)

PHASE I BOOK EXPLOITATION SOV 2516

Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii

Metallurgiya SSSR, 1917-1957; [t.] II (Metallurgy in the USSR, 1917-1957, Vol 2) Moscow, Metallurgizdat, 1959. 813 p. Errata slip inserted. 3,000 copies printed.

Ed. (Title page): I. P. Bardin, Academician; Ed. (Inside book): G. V. Popova; Tech. Ed.: P. G. Islen'yeva.

PURPOSE: This book is intended for metallurgists.

COVERAGE: The articles in this collection present historical data on the achievements of Soviet metallurgy, both ferrous and nonferrous, during the period 1917-1957. Advances in theory and practical application are thoroughly discussed. Many of the articles describe the present status of individual branches of metallurgy and give an idea of what may be expected in the future. Advances made in other countries are also discussed. The articles are accompanied by a large number of references. For further coverage, see Table of Contents.

Pavlov, I. M., Corresponding Member, USSR Academy of Sciences, Professor, Doctor of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Scientific Study of the Rolling Process 56

This article is an extensive survey of scientific writings on the rolling process published in various countries including the USSR since 1859. The writings deal with historical development, friction between rolls and metal, force and power relations, deformation, high-speed rolling, and special methods of rolling.

Bardin, I. P., Academician; and L. L. Pinkhusovich, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) The Rail Problem 82

Historical information on the development of engineering standards for the acceptance of rails and on the amount of rails manufactured by openhearth, Bessemer, and Thomas processes is presented. Changes in weight and types of rails, improvements in quality and technique (e.g., quenching from rolling temperature and after reheating, use of alloy steel, etc.) are pointed out. Measures taken for further improvement and elimination of defects are mentioned.

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Pinkhusovich, Candidate of Technical Sciences; and A. G. Nikonov, Candidate of Technical Sciences. (Institute of Metallurgy imeni A. A. Baykov, USSR Academy of Sciences) Achievements in Railroad Wheel and Tire Production 101

Changes in engineering specifications and improvements in production techniques and quality of tires and solid wheels in the USSR since 1940 are discussed. Further progress in this field is predicted.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

18(e) PHASE I BOOK EXPLOITATION SOV/1728

Akademiya nauk SSSR. Institut metallurgii

Sovremennyye problemy metallurgii (Modern Problems in Metallurgy) Moscow, Izd-vo AN SSSR, 1958. 640 p. 3,000 copies printed.

Resp. Ed.: A.M. Samarin, Corresponding Member, USSR Academy of Sciences; Eds. of Publishing House: V.S. Rzhevnikov, and A.N. Bernov; Tech. Ed.: T.V. Polyakova.

PURPOSE: This book is intended for scientific and technical personnel in the field of metallurgy.

COVERAGE: This is a collection of articles on certain aspects of Soviet metallurgy. The book is dedicated to Academician Ivan Pavlovich Bardin on the occasion of his 75th birthday. The book is divided into seven parts. The first part consists of two articles presenting a brief account of the biography and professional activity of the Soviet metallurgist. It includes an article by John Chipman, Nicholas Grant, and John Elliott (M.I.T., USA) describing their meeting with Bardin in Moscow and also his visit to the United States. The second part consists of three articles and deals with raw materials and fuels for the Soviet metallurgical industry. The third part represents the major portion of the book. It consists of 25 articles dealing with the various aspects of the metallurgy of pig iron and steel. The fourth part consists of two articles treating the metallurgy of nonferrous metals. The fifth part consists of three articles on the forming of metals. The sixth part consists of eight articles discussing certain aspects of physical metallurgy. The last part deals with general problems in the field of metallurgy. References are given after each article. No personalities are mentioned.

TABLE OF CONTENTS:

Modern Problems in Metallurgy SOV/1728

Korniloy, I.I. [Doctor of Chemical Sciences, Metallurgical Institute imeni A.A. Baykov, AS USSR]. Chemistry of Vitamins 583

Starodubov, K.F. [Academician], and Yu.Z. Borkovskiy [Engineer, Institute of Ferrous Metallurgy, AS USSR]. Increasing the Strength and Toughness of Low Carbon Steel by Heat Treatment 592

Pinkhusovich, L.L., and Z.O. Fridman. Investigating Fatigue Strength of Rails Containing Arsenic 598

Plakhanov, P.S., L.Ya. Kravchenko, and V.A. Kochkin [Metallurgical Forging Kombinat]. Increasing the Strength and Wear Resistance of Railroad Rails by Oil Quenching 604

GENERAL PROBLEMS IN METALLURGY

Kostenetskiy, K.P. [Candidate of Technical Sciences, Gipromez (State Institute for the Design and Planning of Metallurgical Plants)]. General Plans of Metallurgical Plants 615

AVAILABLE: Library of Congress

Card 12/12 60/ad 6-15-59

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

AUTHORS: [illegible]

TITLE: Fatigue strength of heat treated rails containing Arsenic (Ustalostnaya prochnost' termicheski obrab tannykh rel'sov, soderzhashchikh mysh'yak)

PERIODICAL: Stal', 1957, No 4, pp [illegible] (USSR)

ABSTRACT: The influence of the type of hardening process of rails containing arsenic on their fatigue strength was investigated. Experiments were carried out on rail specimens of the R-50 type, [illegible] long containing various proportions of carbon ([illegible] to [illegible]) and arsenic (0.12 to 0.23%) from four heats (table 1). During thermal treatment, specimens were charged into a cold electric furnace and heated to the hardening temperature (800 to 860°C) on average during [illegible] hours and then cooled to this temperature for 30 minutes. Two kinds of hardening were tested: 1) surface hardening of the head with water sprays in a machine [illegible] and subsequently self tempered at 330 to [illegible]°; 2) hardening by immersion in oil with cooling to room temperature. Fatigue strength of hardened specimens was tested in a special machine, described in ref [illegible].

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[illegible] 1/3

Fatigue Strength of Heat Treated Rails [illegible] Arsenic

The experimental results are given in table [illegible] and Fig 1 to 7. It was found that the arsenic content up to 0.23% has no negative [illegible] the fatigue strength of rails which confirmed earlier findings (Ref 1). The dependence of [illegible] the type of thermal treat[illegible] hardening in water increases [illegible] that in [illegible] the results [illegible] strength of treated rails showed [illegible] spread. [illegible] investi[illegible] thermal [illegible] decarburized [illegible] degree of decarburization (table [illegible]) [illegible] decreases with [illegible] depth of the zone of [illegible] ferrite ([illegible] 7). [illegible] concluded that [illegible] conditions of thermal treatment are [illegible], the proc[illegible]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

Fatigue Strength of Heat Treated Rails Containing Arsenic

OV/133-[illegible]-4-[illegible]/3[illegible]

the fatigue strength of rails. There are [illegible] figures, 3 tables and 6 references of which [illegible] are Soviet and 1 English.

ASSOCIATION: Institut Metallurgii A[illegible] SSSR (The Institute of Metallurgy of the Academy of Sciences of the [illegible])

Card 3/3

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

SOV 137 57 11 22643

Translation from: Referat. nyy zhurnal Metallurgiya 1957 Nr 11 p 288 USSR

AUTHORS Bardin, I. P., Nikonov, A. G., Pinkhusovich, I. I.

TITLE: The Hardenability of Wheel Steel Due to Sliding Friction (Issledovaniye zakaliyaemosti kolesnoy stali pri trenii skol zheniya)

PERIODICAL Tr. Inst. metallurgii AN SSSR 1957 Nr 1 pp 114-119

ABSTRACT A new method is described for testing the resistance of steel against the formation of chipped out hollows on the rolling surface of railway wheels (W) through braking action. The reproduction of the hardened layer (HL) on the surface prior to the formation of the chipped out hollows was accomplished under laboratory conditions on a special machine in which the specimen (S) of steel tested was fixed in a stationary position while the local heating was accomplished by the friction of a rotating W 1000 mm in diam with the rim machined in the shape of the railhead profile. The hardness on the rolling surface of the W was H_B 300, i.e., equal to the hardness of the rail. The length of the S tested was equal to the width of the rim of the W; their width was 60 and thickness 40 mm. S were carefully

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ground on four sides, washed with gasoline and fitted into the grinding slot of a yoke which was made of a piece of W rim, and fastened with a wedge. This ensured heat elimination at about the same rate as in the rim of a full-scale W. Thereupon the rail shaped W was set into rotation and, when the surface of W reached a constant linear speed (60 km/hour) the S was pressed to the W with a force regulated by the safety valve of the hydraulic transmission and kept in this position for a specified period of time. To decrease the sticking of metal onto the surface of the W during its slipping on the S it was wetted with machine oil. Upon the expiration of the time of holding the specimen under pressure, the valve on the hydraulic transmission was switched over and the S was moved away from the W. The experiments were carried out on S of carbon steel with 0.59% C holding at a constant pressure of 1250 kg during 3, 5, and 8 sec and at different loadings (750, 1000, 1250 and 1500 kg) for a constant duration of 5 sec. In addition S of 7 grades of wheel steel were tested. After the tests the structure was investigated, microhardness was measured over the section of the S, and the HL was analyzed by X-ray diffraction. The evaluation of the resistance of the W against the formation of chipped out hollows through the braking action was made according to the hardness and the thickness of the HL. Tests were also performed on the formation of HL at low temperature (-60°C) in order to ascertain the effect

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

SOV 137 57 11 22643

The Hardenability of Wheel Steel Due to Sliding Friction

of the temperature of the S on the thickness and hardness of the HL and also the tendency towards the formation of cracks without the application of mechanical action. The results of the investigations are adduced and recommendations are made on the manufacture of integrally-rolled W resistant to the formation of chipped out hollows through braking action.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

Translation from: Referativnyy zhurnal Metallurgiya [illegible] Nr [illegible] p [illegible] 81 USSR

AUTHOR: Pinkhusovich, I. L.

TITLE: On the Notch Sensitivity of Rail Steel (O chuvstvitel'nosti rel'sovoy stali k nadrezam)

PERIODICAL: V sb.: Prochnost' metallov. Moscow, AN SSSR, [illegible] pp 112-116

ABSTRACT: The rolling-load fatigue test method was employed to investigate the notch sensitivity (NS) of rails made of bessemer steel [illegible] steel containing As and four grades of alloyed steel: Mn steel, Cr-Ti steel, Cr-V steel, and 3 percent Cr steel. The NS was evaluated from the area of "fatigue spots" at the rail surface. It is established that rails made of bessemer [illegible] steel, which were not subjected to heat treatment, exhibit a considerable degree of NS. Low-alloy steel rails, after [illegible] heat treated, exhibit a lower degree of NS than rails which have not been heat treated. The lowest NS was observed in Mn and Cr-Ti steels after heat treatment, and the highest in Cr and Cr-Ti steels which had not been heat treated. Cr-V steel exhibited a high degree of NS. Rails made of [illegible]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

On the Notch Sensitivity of Rail Steel

ing As exhibit a lower NS than those made of bessemer and alloyed steel.

M. S.

1. Steel-fatigue-Test results 2. Rails (Railway)-Mechanical properties-Test results

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

137-1957-12-22894

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 9 (USSR)

AUTHOR: Pinkhusovich, L. L.

TITLE: On the Development of the Metallurgical Industry in Kerch (Ob usloviyakh razvitiya kerchenskoy metallurgii)

PERIODICAL: Tr. In-ta metallurgii AN SSSR, 1957, Nr 1, pp 245-248

ABSTRACT: The accomplishment of a fuller development of ferrous metallurgy in the USSR will necessitate a wider exploitation of the ores of the Kerch deposits. An expansion of the metal production, based on the exploitation of Kerch ores is economically most profitable under a compound exploitation of the ores, which, along with steel, would also yield phosphate fertilizers and V. A number of institutes have been instructed to investigate the mineralogical composition of all varieties of the Kerch ores, to perform a detailed analysis of the geology of the area and of the chemical composition of the exploited sections, to complete the geochemical mapping of deposits which have been explored, and to work out plans for terracing and the prevention of slides. A large amount of work is planned for the processes of concentration, agglomeration, and metallurgical reduction. A. Sh.

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1. Metallurgy-USSR 2. Geophysical surveying 3. Ores-Determination

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

BLINOV, G.I.; MAKAROV, I.A.; PINKHUSOVICH, R.L.

Using radioactive control and regulation devices in hydrogenation plants. Khim. i tekh.topl. i masel 4 no.1:15-19 Ja '59. (MIRA 12:1)

(Radioisotopes--Industrial applications)
(Liquid level indicators)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PI IE [illegible]

"[illegible] Observati as [illegible]
P. 50[illegible], ([illegible]

SO: [illegible] European Ac[illegible] (EEAL), [illegible]
[illegible] 195[illegible], [illegible]

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[illegible]

[illegible] narya [illegible]

"[illegible] of [illegible]."

[illegible]

Abstract: [illegible] development of views and findings concerning [illegible] in sugar beet which produces in [illegible] diarrhea and lowered milk production, [illegible] tentany, or even [illegible] poisoning. [illegible] of a [illegible] of mechanism have [illegible] resolved, the presence of saponin and [illegible] in the mineral metabolism, balance ratios of basic [illegible] elements, [illegible], and [illegible], with or without disturbances of the endocrine system appear to be definitely involved. Author discusses diagnosis and treatment, and notes that preventive supplementation of diet with minerals and vitamins is the easiest and surest control method. No list of references.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

TUSZKIEWICZ, Maria; PINKIEWICZ, Halina; JABLONSKI, Leon

Preliminary investigations on antigen relationship of atypical bacili cultured from man. Ann. Univ., Lublin sect.D 16:229-237 '61.

1. Z Katedry i Zakladu Mikrobiologii Lekarskiej Wydzialu Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof. dr Jozef Parnas.
(MYCOBACTERIUM) (ANTIGENS)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

SZCZYGIELSKA, Jadwiga; PINKIEWICZ, H.; BIERNACKI, Marian; PLESZCZYNSKA, Ewa

Studies on the pathogenesis of experimental influenza in white mice. Communication II. Med.dośw.mikrob. 12 no.1:15-19 '60.

1. Z Katedry Mikrobiologii Lekarskiej A.M. w Lublinie. Kierownik: prof.dr J. Parnas.
(INFLUENZA exper.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

SZCZYGIELSKA, J.; PLESZCZYNSKA, E.; BIERNACKI, M.; PARNAS, J.; PINKIEWICZ, H.

Studies on the pathogenesis of experimental influenza in white mice. Med. dosw. mikrob. 10 no.1:15-31 1958.

1. Z Katedry Mikrobiologii Lekarskiej A. M. w Lublinie Kierownik: prof. dr J. Parnas.

(INFLUENZA, exper.
comparative pathogen. in mice after infect. with various strains & by various routes (Pol))

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

TUROWSKI, Janusz; PAWLOWSKI, Jerzy; [illegible], Iwo

Model studies on scattering losses in transformers. Elektryka Lodz no.12:95-11[illegible] '63.

1. Katedra Maszyn Elektrycznych i Transformatorow, Politechnika, Lodz.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKIN, A. M.

Remont chasov (Repairing of clocks and watches) 4. dop. i ispr. izd. Moskva, 1952.
210 p. illus., tables. "Literatura": p. (1[illegible])

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1952

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[illegible], A. [illegible].

Remont [illegible] v. [illegible]skva, [illegible], [illegible], [illegible], [illegible], [illegible].
Biblio[illegible]y: [illegible]

Repair [illegible].

[illegible]

So: [illegible] Mechanical Engineering in the [illegible], [illegible] of Congress, [illegible].

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PINKIN, ABRAT MIKHAYLOVICH

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Remont chasov (Repairing of clocks and watches) Moskva, KOIZ, 1952-

v. illus., diagrs., tables.

Includes bibliography.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKINA, L. N.

"Studies of polycondensation reactions. III. On the influence of the components ration upon the growth of the polyamide chain." Rafikov, S. R., Korshak, V. V. and Pinkina, L. N. (p. 1003)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1944, Volume 14, no. 9-10.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

FINKINA, L. N.

USSR/Chemistry - Acetylene, Derivatives
Chemistry - Olefins, Hydration of

Apr 47

"Acetylene Derivatives: No 66, Mechanism of the Hydration and Cyclization of Dienes," I. N. Nazarov, L. N. Finkina, Inst Org Chem, Acad Sci USSR, 5 pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 4

4-Methyl-1-vinylethinyl-Δ^{1}-cyclohexene, on heating in methanol in the presence of sulfuric acid and mercury sulfate, is hydrated to allyl-4-methyl-Δ^{1}-cyclohexenylketone. The latter compound, under the influence of phosphoric or hydrochloric acid, is readily cyclized into 1,6-dimethyl-4,5,6,7-tetrahydroindan, which is also formed when dienin is heated with phosphoric acid. Submitted 7 Apr 1947.

PA 8/49T41

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

FINKINA, L. N.

USSR/Chemistry - Acetylene, Derivatives
Chemistry - Olefins, Hydration of

Apr 47

"Acetylene Derivatives: No 27, Mechanism of the Hydration and Cyclization of Dienes," I. N. Nazarov, L. N. Finkina, Inst Org Chem, Acad Sci USSR, 5½ pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 4

5-Methyl-1-vinylethinyl- '-cyclohexene, on heating in methanol solution in the presence of sulfuric acid and mercury sulfate is hydrated to allyl-5-methyl- '-cyclohexenylketone, which, under the influence of phosphoric acid is cyclized to 1, 5-dimethyl-4,5,6,7-tetrahydroindan-3-on. The latter can also be prepared directly by heating diene with phosphoric acid at 60 - 65°. It can be transformed into 1,5-dimethylindan by heating with phosphoric acid at 170 - 190°. Submitted 7 Apr 1947.

PA 6/49T42

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PINKINA, L. N.

"Acetylene Derivatives. 102. Mechanism of the Hydration and Cyclization of Dienines. XXI. Hydration of 5-Isopropyl-6-methyl-1,5-pentadien-3-ine into 5-Isopropyl-6-methyl-1,5-heptadien-4-one and its Cyclization into 1-Isopropyl-2,2,3-trimethyl-delta 3-cyclopenten-5-one. A New Instance of the Cyclization of Substituted Vinylallylketones which do not have a Free Hydrogen in the Vinyl Radical."
Nazarov, I. N. and Pinkina, L. N. (Inst Org Chem, Acad Sci USSR) (P. 1870)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1949, Vol. XIX, No. 10

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CA

Acetylene derivatives. CXX. Mechanism of hydration and cyclization of dienynes. 27. Transformation of 2-methyl-1-(vinylethynyl)cyclohexanol into 1,8-dimethyl-3,4-tetrahydroindan-3-one. A new method of synthesis of polycyclic ketones containing a cyclopentanone ring with angular substituents. I. N. Nazarov and L. N. Pinkina (Inst. Org. Chem., Acad. Sci. Ukr. SSR, Kiev). C. R. Acad. Sci. URSS 20, 2[illegible] (1938). Adding with ice cooling 73 g. 2-methyl-

cyclohexanone and 50 g. $CH_3CHC:CH$ in Et_2O to 1 at. of $EtMgI$ and 17 g. powd. KOH and letting stand overnight gave 91% 2-methyl-1-(vinylethynyl)cyclohexanol (I), b. 76.5°, n_D^{20} 1.5110, d_4^{20} 0.9[illegible]. Hydrogenation over Adams' catalyst gave the 1-Bu analog, b. 72.2.5°, d_4^{20} 0.9[illegible], n_D^{20} 1.4602. Attempted dehydration of the unsatd. alc. with 50% H_2SO_4, 1 hr. each at 40° and 50°, and 3 hrs. at 60° gave 2-methyl-1-(vinylethynyl)cyclohexene (II), b. 65°, n_D^{20} 1.5430, d_4^{20} 0.9047, which polymerizes in storage. Hydrogenation over Pt gave 1-butyl-2-methylcyclohexane, b. 72.3°, n_D^{20} 1.4472, d_4^{20} 0.8145, while stirring II (50 g.) with 20 ml. H_2SO_4 (d. 1.76) 6 hrs. at 0° gave 11 g. 1,8-dimethyl-3,4-tetrahydroindan-3-one (III), b. 81°, n_D^{20} 1.5498, d_4^{20} 0.9974, semicarbazone, m. 176.5-7.8° (from MeOH), 2 forms of 2,4-dinitrophenylhydrazone, m. 184-4.5° (from Cellu. MeOH) and 175-5.8° (from Cellu. MeOH), a trioxide oxidation of III gave 2,3-dimethylbenzoic acid. Hydrogenation over Pt oxide gave 2,3-dimethylhexahydroindanone (I, numbering), b. 74.5°, n_D^{20} 1.4[illegible] (from MeOH), semicarbazone, m. 195.5-6.0° and 0.9[illegible], semicarbazone, m. 135.5-6.0°, 2 forms of 2,4-dinitrophenylhydrazone, m. 135.5-6.0° and [illegible] (from Cellu. MeOH). Ozonolysis of III gave

HCOOH and 2-methyl-3-methylcyclohexanecarboxylic acid, m. 92.5-4.0° (from H_2O), semicarbazone, m. 167°, oxidation of the latter with Br NaOH gave 1-methylcyclohexanecarboxylic acid, m. 132° (authentic specimen made from citraconic anhydride and butadiene by heating 5.5 hrs. at 160°, yield 10%, m. 132.5°). Stirring 40 g. II with 270 g. 93% MeOH, 0.4 ml. H_2SO_4, and 2 g. $HgSO_4$ gave 37.5 g. allyl 2-methyl-1-cyclohexen-1-yl ketone (IV), b. 95°, n_D^{20} 1.5002, d_4^{20} 0.9551, hydrogenated over Pt oxide to Pr 2-methylcyclohexyl ketone, b. 57°, n_D^{20} 1.4520, d_4^{20} 0.8955, semicarbazone, m. 162.3° (from MeOH). Hydrogenation is best done in AcOH, as in EtOH only 2 H add readily. Ozonolysis of IV yields HCOOH, AcOH and MeCOCH$_2$CH$_2$COOH, which on oxidation by Br NaOH gave adipic acid. Stirring 11.9 g. IV with 12 ml. H_2SO_4 (d. 1.76) 15 min. at room temp. and 6 hrs. at 0-5° gave 10.5 g. III but which forms 2 semicarbazones, one, m. 177.8°, identical with that described above, and another, m. 202.5°, although two 2,4-dinitrophenylhydrazones form, only one, m. 175.5-6.0°, was isolated in the pure state. 1.5 g. III with 5 ml. H_2SO_4 (d. 1.76) 30 min. at room temp. and 8 hrs. at 0-5° gave 2.0 g. III. 2.8 g. of which refluxed 3 hrs. with 15 ml. 0.4 N MeONa in MeOH gave 1.2 g. product consisting predominantly the enol also identical with III, giving predominantly the enol semicarbazone, m. 178°, and 2,4-dinitrophenylhydrazone, m. 201-5.0°, with a small amt. of the higher melting form, m. 2[illegible]. The enol analog failed to change on heating with MeONa. CXXI. Mechanism of hydration and cyclization of dienynes. 28. Hydration of 2,4-dimethyl-1-vinylethynyl-3-cyclopentene and behavior of the thus formed allyl 2,4-dimethyl-1-cyclopenten-1-yl ketone in cyclization

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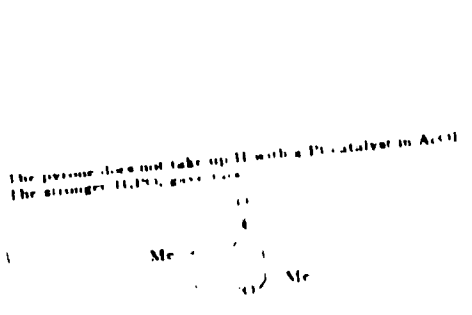
reactions I. N. Nazarov and M. S. Burmistrova *Ibid*

[illegible] In 80 g [illegible] KOH, 250 ml H_2O, and 25 g [illegible] CH_2CHCCH was added, with ice cooling, in 1 hr 101 g [illegible] 2,4-dimethylcyclopentanone 100 g CH_2CHCCH and overnight at [illegible] ml H_2O, letting stand 4 hrs at [illegible] 5° and overnight at room temp gave [illegible] 2,4-dimethyl-1-cyclopentenol, d_4^{20} 0.8811, hydrogenated over Pt in EtOH to the *1,3a analog*, bp 91-2°, nD^{20} 1.4500 [illegible] d_4^{20} 0.8851, while stirring the unsatd alk (101 g) with 100 ml 20% H_2SO_4, with a little pyrogallol 4 hrs at 60-5° gave [illegible] 2,4-dimethyl-1-cyclopentene (I), bp 78-[illegible] nD^{20} 1.4240, d_4^{20} 0.8705, hydrogenated over Pt to the [illegible] *2,4-dimethyl-1-cyclopentane*, bp 58-8.5°, [illegible] *analog*, [illegible] 2,4-dimethyl-1-cyclopentanol, bp [illegible] nD^{20} 1.4500, d_4^{20} 0.8898. I (1.5 g) [illegible] MeOH, and [illegible] H_2SO_4, stirred 45 min at 65, gave 20.5 g *allyl 2,4-dimethyl-1-cyclopentene* (II), bp 94-4.5°, nD^{20} 1.4520, d_4^{20} 0.8[illegible] repetition with 425 g 100% MeOH, 2 [illegible] H_2SO_4, and 1.5 g I gave 140 g mixt of the above ketone with the 2-methylcyclopentanone analog; heating the mixt with [illegible] $MeCH(SO_3H)_2$ 5 mm at 110-5° and 101 mm gave 115 g II, bp 85-[illegible] nD^{20} 1.4450, d_4^{20} 0.8757, while monolyzed [illegible] *analog* bp 102-4°, nD^{20} 1.4450, d_4^{20} 0.8757, hydrogenation of this gave the [illegible] H_2CCH and [illegible] *acid*, bp 120-8°. Stirring 115 g II with 115 ml H_2SO_4 (d 1.84) 22 hrs at room temp gave the [illegible] (III), bp 92.5-4.0°, nD^{20} 1.4482, d_4^{20} 0.8927, [illegible] *chlorone*, in 100-8.5° (from MeOH), the same ketone is obtained in better yield by hydration with 10% H_2SO_4 in the presence of $HgSO_4$ after 24 hrs at 65°.

The ketone does not take up H with a Pt catalyst in AcOH. The stronger H_2SO_4 gave [illegible]



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A

Organic Chemistry · 10

Acetylene derivatives. CXX. Mechanism of hydration and cyclization of dienynes. 27. Transformation of 2-methyl-1-(vinylethynyl)cyclohexanol into 3,3a-dimethyl-3a,-4,5,6,7,7a-hexahydroindone. A new method of synthesis of polycyclic ketones containing a cyclopentanone ring with angular substituents. I. N. Nazarov and L. N. Pinkina. *J. Gen. Chem. U.S.S.R.* 20, 2079-90(1950)(Engl. translation).—See *C.A.* 45, 5636i. CXXI. Mechanism of hydration and cyclization of dienynes. 28. Hydration of 2,4-dimethyl-1-(vinylethynyl)cyclopentene and the behavior of the thus formed allyl 2,4-dimethyl-1-cyclopenten-1-yl ketone in cyclization reactions. I. N. Nazarov and M. S. Burmistrova. *Ibid.* 2091-7.—See *C.A.* 45, 5637f.

B. L. M.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

[illegible]A, L. N.

[illegible], L. N. -- "Hydration of Vinyl-delta prime-Cyclohexenylacetylenes and the Cyclization of Allyl-delta prime-Cyclohexenylketones. A New Type of Cyclization of Substituted Vinylallylketones without a Free Hydrogen in the Vinyl Radical." Sub 30 Sep 52, Inst of Organic Chemistry, Acad Sci USSR. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskv January-December 1952

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

62-58-3-6/[illegible]

AUTHORS: Knunyants, I. L. , Sterlin, R. N. , Pinkina, L. N. , Dyatkin, B. L.

TITLE: Reactions of Fluorolefins (Reaktsii ftorolefinov) Communication 7. Addition Compounds of Acid Chlorides to Vinylidene Fluoride and Trifluoroethylene (Soobshcheniye 7. Prisoyedineniye khlorangidridov kislot k ftoristomu vinilidenu i triftoretilenu)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk 1958, Nr 3, pp. 296 - 299 (USSR)

ABSTRACT: The addition of alkyl halides discovered by Kondakov was later developed by others. In the present paper the authors show that such fluorolefins as vinylidene fluoride and trifluorethylene (in the presence of nonaqueous $AlCl_3$) possess the capability of combining with carboxyl chlorides and thereby forming the corresponding fluoro-substituted ketones. Vinylidene fluoride very readily combines with the acid chlorides of butyric acid and propionic acid at a temperature of -5 to -10°C in the presence of equivalent quanta of AlCl in

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62-58-3-6/30

Reactions of Fluorolefins. Communication 7. Addition Compounds of Acid Chlorides to Vinylidene Fluoride and Trifluoroethylene

pure chloroform, where alkyl-2-chloro-2,2-difluoroethylketones with yields of 44,48 and 33 % form:

$$R\underset{\underset{O}{\|}}{C}Cl + CH_2{=}CF_2 \xrightarrow[CHCl_2]{AlCl_2} R\underset{\underset{O}{\|}}{C}CH_2CF_2Cl$$

$$R = CH_3;\ C_2H_5;\ n - C_3H_7$$

At the same time substances form which correspond to the products of the partial or complete substitution of fluorine in chlorine and the products of further condensation. The authors obtained: methyl-2-chloro-2,2-difluoroethylketone and methyl-2-chloro-1,2,2-trifluoroethylketone. There are 8 references, 2 of which are Soviet.

SUBMITTED: November 3, 1956

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

5(3) SOV/62-58-11-11/26

AUTHORS: Knunyants, I. L., Sterlin, R. N., Yatsenko, R. D., Pinkina, L. N.

TITLE: Reactions of Fluoro Olefins (Reaktsii ftorolefinov) Communication VIII. Reactions of Perfluoro Vinyl Magnesium Halides (Soobshcheniye 8. Reaktsii perftorvinilmagniygalogenidov)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 11, pp 1345-1347 (USSR)

ABSTRACT: In the present paper the authors demonstrated that by the activation of magnesium with ethyl bromide and by carrying out the reaction in ester at -30 to -20° a practically quantitative consumption of magnesium can be achieved. By the decomposition of the reaction mass with diluted sulfuric acid 70 % of trifluoro ethylene could be separated. It was demonstrated that under the mentioned conditions perfluoro vinyl bromide and perfluoro vinyl chloride do not react with magnesium and that they are unchanged after the end of the reaction. An organomagnesium compound $CF_2=CFMgBr$ in a yield of up to 45 % could be formed from perfluoro vinyl bromide in tetrahydro furan. In this case it was not even necessary to

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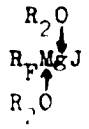
Reactions of Fluoro Olefins. SOV/63-58-11-11/26
Communication VIII. Reactions of Perfluoro Vinyl
Magnesium Halides

activate magnesium with ethyl bromide. Apparently the assertion that an intensification of the basicity of the solvent favors the formation of R_FMgJ on the basis of its stabilization in the form of a complex of the



type, is justified. As the result of the processing of $CF_2{=}CFMgJ$ with solid carbon dioxide in ester solution at -40° and the subsequent decomposition of the reaction mass with 2N sulfuric acid solution perfluoro acrylic acid was obtained in a yield of 40 %. Henne (Ref 6) formerly obtained this acid by a complex and very slow method. The found method can be recommended without doubt for preparation. By processing the ester solution of the perfluoro acrylic

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Reactions of Fluoro Olefins. SOV/62-58-11-11/25
Communication VIII. Reactions of Perfluoro Vinyl
Magnesium Halides

acid with a calculated amount of diazomethane the methyl ester of perfluoro acrylic acid was obtained. There are 8 references, 1 of which is Soviet.

SUBMITTED: March 4, 1957

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

5 (3)

AUTHORS: Sterlin, R. N., Znunyants, I. L., Pinkina, L. N., Yatsenko, R. D.

SOV/62-59-8-29/42

TITLE: Tetraperfluorovinylsilane

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 8, pp 1492-1493 (USSR)

ABSTRACT: Starting from a consideration of the reaction of tetrachlorosilicon with alkyl- and aryl silanes and other organic silicon (or magnesia) halogenides, the present paper describes the attempted gradual substitution for the Cl-atom in $SiCl_4$ of a perfluorovinyl group. As expected, the introduction of such a group caused a decrease in the electron density in the central Si-atom. Thus the substitution of further groups is progressively facilitated. The tetrafluorovinylsilane is stable in aqueous acid solutions; in bases it is quantitatively split into trifluoroethylene which has been identified by its dibromide. The reaction is described in the experimental part. There is 1 reference.

SUBMITTED: February 11, 1959

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

AUTHORS: [illegible], R. N., [illegible], [illegible], R. D., Knunyan[illegible], I. L.

TITLE: [illegible] Perfluorovinyl Derivatives [illegible] and S[illegible]

PERIODICAL: K[illegible] [illegible] (USSR)

ABSTRACT: [illegible]

[illegible] obtained from perfluorovinylmagnesium iodide and [illegible] Perfluorovinyldichloroarsine (a new product) was obtained by decomposition of 10-perfluorovinyl-5,10-dihydrophenarsazine with liquid HCl. The obtained substances have the following properties: tri-(trifluorovinyl)-

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

AUTHORS: [illegible]

TITLE: Radical Exchange of Perfluoroalkenylmagnesium [illegible]

PERIODICAL: [illegible] (USSR)

ABSTRACT: Radical exchange was studied in the system perfluoro-[illegible] iodide-phenylmagnesium bromide, [illegible] exchange, arsenic [illegible] was added to the system. In the [illegible] -(trifluoro[illegible])-arsine ([illegible]% yield, [illegible] iodide), and in the second [illegible] ([illegible]% yield, based on perfluoro[illegible] iodide) were obtained. This shows that in [illegible] RMgX + R'X → R'MgX + RX radical exchange takes place [illegible] a sufficient difference [illegible] R and R'. There are [illegible] U.S. The U.S. references are: C. R. P[illegible]

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AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

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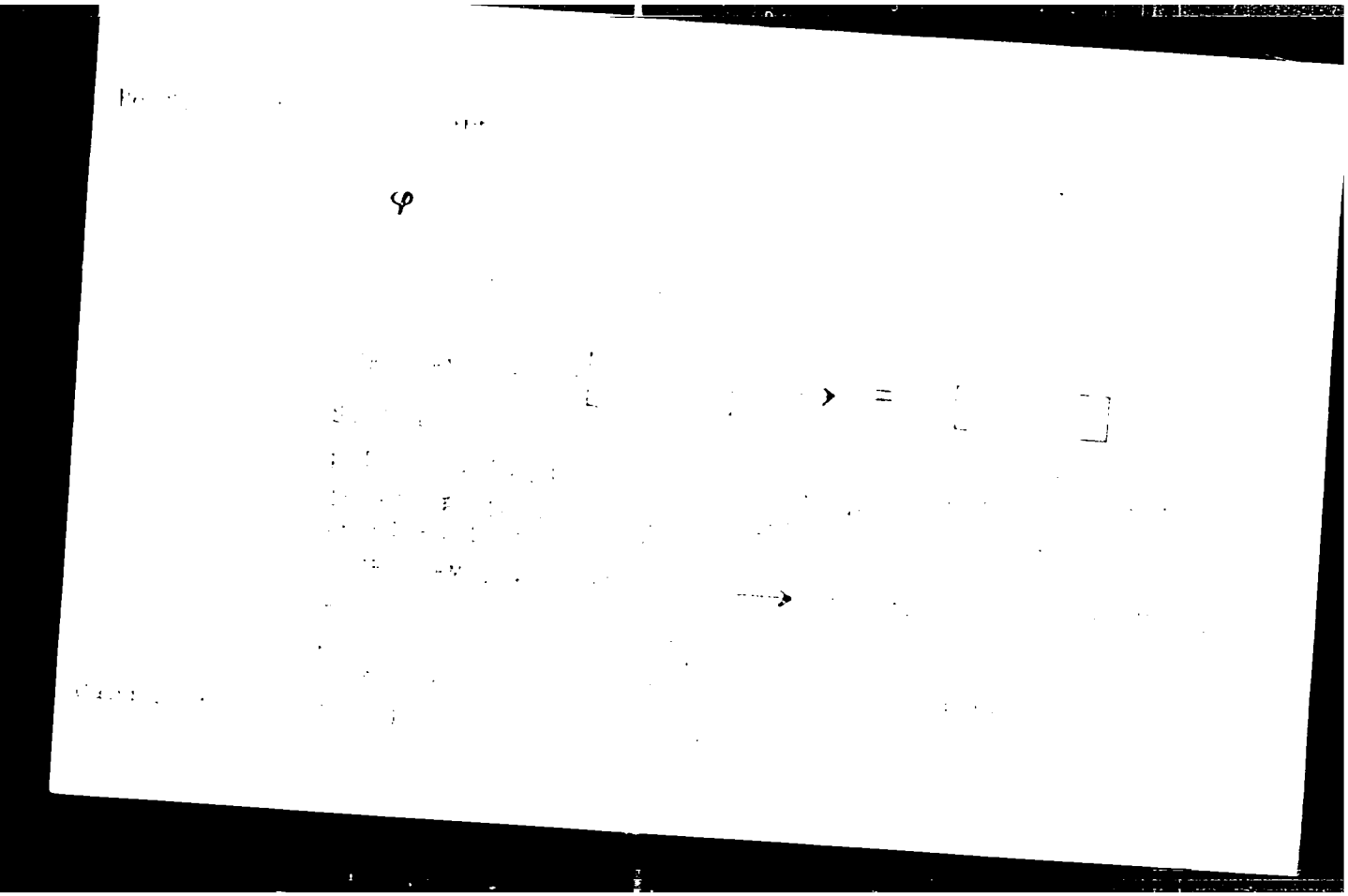

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[illegible]

[illegible] $\longrightarrow$ [illegible]

[illegible]

[illegible] F. [illegible], H. E[illegible], R. H[illegible] [illegible]

[illegible]ED: [illegible]

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86479

53630 1287, 2209, 1266 S/062/60/[illegible]
B013/B078

AUTHORS: Sterlin, R. N., Yatsenko, R. D., Pinkina, L. N., Knunyants, I. L.

TITLE: Perfluoro Derivatives of Nonmetals

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 11, pp. 1991 - 1997

TEXT: The preparation of perfluoro derivatives of phosphorus, arsenic, and antimony is described. From the reaction of perfluoro vinyl magnesium iodide with $AsCl_3$, PCl_3, and $SbCl_3$ in ether solution only tertiary derivatives were obtained: tri-(trifluorovinyl)arsine, tri-(trifluorovinyl)phosphine, and tri-(trifluorovinyl)stibine. Primary and secondary derivatives were not formed in this process. Perfluorovinyl dichloroarsine was obtained by splitting 10-alkyl-5,10-dihydrophenarsazine with dry HCl (Ref.4). A corresponding perfluorovinyl derivative was obtained in a quantitative yield as a result of the reaction of perfluorovinyl magnesium iodide with adamsite. Perfluorovinyl chloroarsine was

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Perfluoro Derivatives of Nonmetals

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B013/B078

isolated in a practically quantitative yield by the reaction of $CF_2=CFAs(C_6H_4)_2NH$ with liquid HCl. By treating the tetraethyldiamide of phosphorous acid chloride and the tetraethyldiamide of ethyl phosphinic acid with dry, gaseous HCl in xylol solution, phosphorus trichloride, and ethyldichlorophosphine, respectively, were obtained. From the reaction of perfluorovinyl magnesium iodide with the tetraethyldiamide of phosphorous acid chloride, the tetraethyldiamide of perfluorovinyl phosphinic acid was obtained. This was converted into trifluorovinyl dichlorophosphine by reaction with dry HCl in ether solution. By treating the latter with antimony trifluoride, perfluorovinyl difluorophosphine was obtained. In a similar manner, the diethylamide of di-(trifluorovinyl) phosphinic acid was obtained from $(C_2H_5)_2NPCl_2$ and perfluorovinyl magnesium iodide. By decomposing it with dry HCl, di-(trifluorovinyl)chlorophosphine was synthesized. By treating the latter with antimony trifluoride, di-(trifluorovinyl)fluorophosphine was obtained. As opposed to the trifluoromethyl derivatives of arsenic and phosphorus, the prepared tri-(trifluorovinyl) arsine and tri-(trifluorovinyl)phosphine do not

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B[illegible]

Perfluoro Derivatives of Nonmetals

separate trifluoroethylene when heated. Thus, the perfluorovinyl radical in the said compounds does not show any properties of pseudohalogens. Ye. P. Shcherbina and L. F. Razgovorov assisted in this work. There are 8 references: 2 Soviet.

SUBMITTED: June 4, 1959

Card 3/3

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KNUNYANTS, I.L.; STERLIN, R.N.; TYULENEVA, V.V.; PINKINA, L.N.

Pseudohalide properties of perfluoroalkenyl radicals in esters of perfluoroalkenylphosphinic acids. Izv. AN SSSR. Otd.khim.nauk no.6:1123-1127 Je '63. (MIRA 16:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Phosphinic acid) (Radicals (Chemistry))

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L 12718-63 EPR/EPF(c)/EWP(j)/EWT(m)/BDS ASD Pe-4/Pc-4/Pr-4 RM/MAY/WW

ACCESSION NR: AP3002298 S/0062/63/000/006/1123/1127

72

71

AUTHOR: Knunyants, I. L.; Sterlin, R. N.; Tyuleneva, V. V.; Pinkina, L. N.

TITLE: Pseudohalo properties of perfluoroalkenyl radicals in esters of perfluoroalkenylphosphoric acid

SOURCE: AN SSSR. Izv. Otdeleniya khimicheskikh nauk, no. 6, 1963, 1123-1127

TOPIC TAGS: perfluorovinyl phosphoric acid, perfluoropropenyl phosphoric acid, perfluoroisobutenyl phosphoric acid, perfluoroisobutenyl phosphoric acid, methyl perfluoropropyl phosphoric acid, hydrolysis, diisopropyl ester

ABSTRACT: The following new esters of perfluoroalkenylphosphoric acids were prepared; chemical and physical data is given: diethyl ester of 1,2-difluoro-2-chlorovinyl phosphoric acid; diisopropyl ester of perfluorovinyl phosphoric acid; diisopropyl ester of perfluoropropenyl phosphoric acid; diisopropyl ester of perfluoroisobutenyl phosphoric acid; diisobutyl ester of perfluoroisobutenyl phosphoric acid; and isopropyl ester of methyl perfluoropropenyl phosphoric acid. The perfluoropropenyl and perfluoroisobutenyl radicals at the pentavalent P show pseudohalo properties: alkaline hydrolysis of the above esters gives the corresponding fluoroalkenes, alcohols and alkali phosphate; the fluorovinyl phosphoric

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L 12718-63
ACCESSION NR: AP3002298

acids did not give trifluoroethylene on hydrolysis. Orig. art. has: 3 tables, 4 formulas and 2 figures.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy of Sciences SSSR)

SUBMITTED: 15Jan63 DATE ACQ: 16Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 004 OTHER: 001

Card 2/2

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PIN'KOVSKIY, Gleb Stanislavovich; SARSER, A.I., retsenzent; SLAVOROSOV, A.Kh., red.izd-va; ZHIVRINA, G.V., tekhn. red.; ROMANOVA, N.V., tekhn. red.

[Surveying operations during mine shaft sinking] Markscheiderskie raboty pri sooruzhenii shakhtnykh stvolov. Moskva, Izd-vo "Nedra," 1964. 150 p. (MIRA 17:3)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

VAGIN, Gennadiy Ivanovich; PIN'KOVSKIY, Gleb Stanislavovich; CHERNEGOVA, E.N., red. izd-va; SHKLYAR, S.Ya., tekhn. red.

[Using portable formwork in supporting mine shafts] Kreplenie stvolov shakht s primeneniem peredvizhnykh opalubok. Moskva, Gosgortekhizdat, 1962. 146 p. (MIRA 15:11)
(Mine timbering)
(Concrete construction--Formwork)

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PIN'KOVSKIY, G.S., inzh.; ABLETS, V.I., inzh.

Destructive action of corrosive waters on concrete shaft supports in the Krivoy Rog Basin. Shakht. stroi. 6 no.7:9-1[illegible] Jl '62. (MIRA 19:7)

1. Trest Krivbassshakhtoprokhodka.
(Mine water)
(Krivoy Rog Basin--Concrete construction)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

PIN'KOVSKIY, G.S., inzh.

Using length-tapping devices for depth measurement in shaft sinking. Shakht.stroi. 6 no.2:18-23 F '62. (MIRA 15:2)

1. Trest Krivbasshakhtoprokhodka.
(Shaft sinking)(Measuring tapes)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340920007-5

VAGIN, G.I., insh.; ~~PIHKOVSKIY~~, G.S.

Borehole charge firing in stages during shaft sinking. Shakht. stroi. no.6:26-27 Je '59. (MIRA 12:9)

1. Trest Krivbassshakhtoprokhodka.
(Shaft sinking) (Blasting)

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PIN'KOVSKIY, S.I.

Types of river channels in central and southern Siberia. Trudy GGI no.94:87-114 '62. (MIRA 15:7)

(Siberia—Rivers)

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