"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

MERCHANSKIY, Diomid Pavlovich; PIVEN', V.N., inzh., retsenzent;
YAKOBSON, M.O., doktor tekhn. nauk, prof., retsenzent;
POGODIN, B.A., inzh., red.; CHFAS, M.A., red.izd-va;
SHCHETININA, L.V., tekhn. red.

[Gear cutting]Zuboreznoe delo. Moskva, Mashgiz, 1962. 211 p.
(MIRA 16:3)

(Gear cutting)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGOVIN, B.A.

AUTHORS: Pogodin, B.A., and Farberov, M.Z., Engineers 117-2-7/29

TITLE: Experience in Modernization of Devices (Opyt modernizatsii prisposobleniy)

PERIODICAL: Mashinostroitel', 1958, # 2, pp 15-18 (USSR)

ABSTRACT: The article describes modernized universal pneumatic clamping heads for metalcutting machine tools at the plant "Ekonomayzer". These clamping heads - of 1,200, 1,600 and 2,500 kg force - are identical in all basic dimensions and can be changed if the clamping force is not sufficient. The heads comprize a pneumatic contactor ("pnevmokontaktor") (Fig.5) serving as a safety device and switching the main machine tool drive off at the moment the pneumatic pressure drops and the clamping head loosens its grip. The illustrations show the "Ekonomayzer" clamping head separately and with clamped milling attachments as well as an attachment for cutting blade blanks.

Universal pneumatic clamping heads permit the clamping of all possible attachments for machining work of various shapes. In case of breakdowns in the pneumatic system they can readily be re-set for manual clamping.

There are 11 drawings.

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POGODIN, B.A., inzh.; SHCHENNIKOV, S.A.

Method for mechanized computation of production norms. Energomashinostroenie 9 no.5:30-34 My '63. (MIRA 16:7)

(Electric machinery industry)
(Productivity accounting)
(Labor productivity)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

Pogodin, B.A.

AUTHOR: Pogodin, B.A., and Barskiy, M.E., Engineers 117-3-3/28

TITLE: Sharpening Precision Hobs (Zatochka pretsizionnykh chervyachnykh frez)

PERIODICAL: Mashinostroitel', 1958, # 3, p 7-9 (USSR)

ABSTRACT: The semi-automatic cutter grinder, model " 3A 642"of the Vitebsk Cutter Grinder Plant (Vitebskiy zavod zatochnykh stankov) used at the Leningrad plant "Ekonomayzer" for sharpening hobs of 50 mm diameter and 200 mm length, with straight or helical grooves, is well suited for hobs of conventional accuracy but not for precision hobs designed for cutting the precision gears of turbine gear drives. Precision hobs are made with larger than common diameters and tooth numbers and a much steeper thread angle, which makes precise setting of this particular grinder impossible. Therefore, every tooth of a precision hob has to be finished separately after the automatic grinding cycle.

To facilitate the task of sharpening precision hobs, a two-position switch has been included into the electric system of the grinder to set it either for sharpening every hob tooth separately or for sharpening all hob teeth simultaneously. Special instructions, in accordance with recommendations of the Gear Drive Department of TsNIITMASh,have been composed for

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117-3-3/28

Sharpening Precision Hobs

determining the accumulated circular pitch error and the depth of metal to be removed from each tooth.

The article contains detailed operation information and design description accompanied by a kinematic diagram of the "3A 642" grinder and its eledtric diagram, without the two-position switch and with the two-position switch.

There are 3 diagrams.

ASSOCIATION: Leningrad Plant "Ekonomayzer" (Leningradskiy zavod "Ekonomayzer")

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, B.A.

BORISHANSKIY, Valentin Vladimirovich, inzh.; GOL'DENBERG, Yefim Ionovich, inzh.; KATS, A.S., dotsent, kand.ekon.nauk, retsenzent; POGODIN, B.A., inzh., red.; LEYKIHA, T.L., red.izd-va; DLUGOKANSKAYA, Ye.A., tekhn.red.

[Organization of technical preparation of production in a machinery plant] Organizatsiia tekhnologicheskoi podgotovki proizvodstva na mashinostroitel'nom predpriiatii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 81 p. (MIRA 13:1)
(Machinery industry) (Factory management)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

SOV/117-59-2-11/27

25(5)

AUTHORS: Sukhoparov, A.A., and Pogodin, B.A., Engineers

TITLE: The Preparation of the Production System for the Group Machining of Parts at the "Ekonomayzer" Plant (Podgotovka proizvodstva dlya gruppovoy obrabotki detaley na zavode "Ekonomayzer")

PERIODICAL: Mashinostroitel', 1959, Nr 2, p 20 (USSR)

ABSTRACT: The authors tell the experience acquired by the plant in work preparatory to introducing the group machining process, initiated by the plant in 1957 with the help of the Leningrad Branch of the Vsesoyuznyy proyekto-tekhnologicheskiy institut tyazhëlogo mashinostroyeniya (All-Union Technological-Planning Institute of Heavy Machine Building). The first experience was acquired on turret lathes, for which purpose about 2,000 work items were selected. The head of the turret lathe was regulated for the machining of a given, complex typical item. The lathe could then perform the machining of all items, which were members of the same technological group. The

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SOV/117-59-2-11/27

The Preparation of the Production System for the Group Machining of Parts at the "Ekonomayzer" Plant

work norm was reckoned on the basis of the work time required for the machining of one given item. The work norms for other items were found by the method of interpolation. The article also deals with changes in documentation and other paper work, necessary to the introduction of the group machining process, and with the respective changing of planning, from planning by final products to planning by separate items. There is 1 set of diagrams.

Card 2/2

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POGODIN, B.A.

Classification of parts is a basis for the introduction of multiple machining. Mashinostroitel' no.1:12-15 Ja '64. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

YEREMIN, P.F., inzh.; POGODIN, B.A., inzh.

Classifier of items, their components, and technical documentation of the basic lines of turbine manufacturing plants. Energomashinostroenie 10 no.12:27-31 D '64. (MIRA 18:2)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, B.A., inzh.

Classification of components is a basis for the creation of modern technology and work organization. Energomashinostroenie 9 no.12:32-36 D '63. (MIRA 17:1)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, B.A., inzh.

Classification of parts is a basis for the organization of industrial production. Mashinostroenie no.6:3-10 N-D '63. (MIRA 16:12)

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POGODIN, B.A.

3

PHASE I BOOK EXPLOITATION SOV/5676

Azarov, A. S., Candidate of Technical Sciences, Docent, ed.

Prisposobleniya dlya gruppovoy obrabotki detaley; opyt nekotorykh leningradskikh zavodov (Equipment for Group-Machining of Machine Parts; Experience of Certain Leningrad Plants) [Leningrad] Lenizdat, 1960. 254 p. 3,000 copies printed.

Scientific Ed.: P. I. Bulovskiy, Doctor of Technical Sciences, Professor; Ed.: A. E. Lepin; Tech. Ed.: R. G. Pol'skaya.

PURPOSE : This collection of articles is intended for technical personnel and skilled workers in machine and instrument plants; it may also be used by students in schools of higher technical education and tekhnikums.

COVERAGE: Basic principles in the design of universal, universal-setup, and group-machining jigs and fixtures are stated. This equipment is also considered from the standpoint of its application in several Leningrad machine and instrument plants.

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Examples are given for the grouping of parts according to shape or special processing features. Constructions for group-machining fixtures are presented, and certain problems encountered in parts machining, fixture design, and cutting regimes are discussed. Calculations relating to the economic effectiveness of various types of jigs and fixtures are included in some of the articles. No personalities are mentioned. There are no references.

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Equipment for Group Machining of (Cont.) SOV/5676

Yemel'yanov, M. A. Jigs and Fixtures for Group Machining in the Milling, Broaching, and Turning of Parts 130

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Kladovshchikov, A. T. Universal Standard-Parts Fixtures and Indexing Tables in Machine Building 218

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VK/wrc/jw
11-15-61

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BORISENKO, F.F.; POGODIN, B.I.

Difficulties of differential diagnosis in periarteritis nodosa.
Khim. med. 38 no.5:126-130 My '60 (MIRA 13:12)
(ARTERIES--DISEASES)

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B-1-4

BC

DETERMINATION OF DECARBONISATION (OF STEEL).
G. I. Porodin (Zavod. Lab., 1934, 3, 526--528).--The margins of the depression made by forcing a diamond into steel are distinguished by fissures and wrinkles in zones of decarbonisation. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

2

Desorption of solvents from activated charcoal by inert gases. I. N. D. Gorchakov and I. I. Pogodin (Leningrad Chem. Tech. Inst.). *J. Applied Chem.* (U.S.S.R.) 18, 538-47(1945)(English summary).—Charcoal AP was statically tested for activity to benzene, EtOH, and Et_2O vapors. The results are given graphically. This charcoal shows the highest retentivity for benzene and least for EtOH. Desorption of EtOH by CO_2 was studied; the following are the optimum values: temp. 125-30°, CO_2 flow 0.5 l./sq. cm./min., time 15 min. Under these conditions up to 80% EtOH was desorbed. G. M. K.

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PROCESSES AND PROPERTIES INDEX

D

F

582. DESORPTION OF SOLVENTS FROM ACTIVATED CHARCOAL BY INERT GASES. II. Gorchakov, N. D. and Pogodin, I. I. (J. Appl. Chem. (U.S.S.R.), 1945, 18, 666-8; Chem. Abstr., 1946, 40, 6316)

The desorption rate of EtOH from charcoal by CO_2 was determined at various rates of CO_2 flow (from 0.1 to 1.5 l/sq. cm./min). The optimum conditions are 125-30°, CO_2 flow rate of 0.5 l./sq.cm.min. and 15-min duration. In such a case up to 88.4% of adsorbed EtOH is desorbed with utilization of 1 cu.m. of CO_2 per kg. of EtOH. III. Ibid. 669-79. Desorption of EtOH from charcoal AP was studied by using CO_2 for desorbent at 95-8°, 110-12°, 125-30°. The optimum condition is 125-30° at 0.5 l./sq.cm./min. CO_2 rate. Desorption by CO_2 and N was also studied under conditions of constant use of the charcoal layer; the optimum conditions under this regime are as above, with 91-2% EtOH being desorbed as 95-6% EtOH. The only amount of CO_2 actually needed is that required to fill the apparatus. The method is considerably superior to the commercially used steam desorption. A diagram of the closed system used is presented. IV. N. D. Gorchakov and Z. S. Vanyushina. Ibid. 1946, 19, 97-101. (over)

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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The dynamic activity of charcoal AP at a layer depth of 100 cm. and benzene concentration of 30 mg./l. is 20-30%, in desorption of benzene by menas of CO_2. The optimum time for desorption is 15 min. at 180° at 0.5 l./sq.cm./min. rate of CO_2 flow. It was possible to condense 72% of benzene which was adsorbed on the charcoal, under the above conditions.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, I. I.

GORCHAKOV, N.D.; POGODIN, I.I.

Desorption of solvents from activated charcoal by inert gases. Zhur. prikl. khim. 31 no.1:60-65 Ja '58. (MIRA 11:4)

1.Laboratoriya sorbtsionnoy tekhniki Leningradskogo tekhnologicheskogo instituta im. Lensoveta.
(Carbon, Activated) (Desorption)

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POGODIN, K.

Head of a working dynasty. Zdorov'e 8 no.11:8-8a N '62. (MIRA 15:10)

(TRET'IAKOV, TIKHON GRIGOR'EVICH)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, K.

Hydraulic engineering

Osushchestvlennaya mechta: (ocherki o sooruzheniy Volgo-Donskogo sudokhodnogo kanala imeni V. I. Lenina). Moscow, Izdatel'stvo TsK VLKSM "Molodaya Gvardiya," 1953. pp. 136, photos, 22 x 15., 1953

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KORSHUNOV, Lev Petrovich. Prinimal uchastiye SEVAST'YANOV, N.B., kand. tekhn. nauk, dots.; KARPOVICH, V.A., inzh., retsenzent; YUDOVICH, B.S., kand. tekhn.nauk, retsenzent; POGODIN, L.L., nauchnyy red.; SMIRNOV, Yu.I., red.; CHISTYAKOVA, R.K., tekhn. red.

[Power systems of fishing trawlers]Energeticheskie ustanovki rybolovnykh traulerov. Leningrad, Sudpromgiz, 1963. 295 p. (MIRA 16:4)

(Fishing boats)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

SOLOV'YEV, Yevgeniy Mikhaylovich; POGODIN, L.L., nauchnyy red.; SMIRNOV, Yu.I., red.; TSAL, R.K., tekhn.red.

[Manual for engineers of commercial fishing boats] Posobie motoristu rybopromyslovogo sudna. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1960. 354 p. (MIRA 13:11)
(Marine engineering) (Fishing boats)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

KARPOVICH, Vladislav Anatol'yevich. Prinimal uchastiye YEFREMOV, L.V., inzh.; NEKUS, K.I., inzh., retsenzent; KATSMAN, F.M., retsenzent; POGODIN, L.L., nauchn. red.; SMIRNOV, Yu.T., red.

[Diesel engine plants with controllable pitch propellers] Dizel'nye ustanovki s vintami reguliruemogo shaga. Leningrad, "Sudostroenie," 1964. 203 p. (MIRA 17:8)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

IVANOV, Krasarm Ivanovich; KRYUCHKOV, Vladimir Aleksandrovich; POGODIN, L.Ye., red.

[Realized dreams; on the 20th anniversary of the liberation of Hungary] Voploshchennye mechty; k 20-letiiu osvobozhdeniia Vengrii. Moskva, Znanie, 1965. 38 p. (Novoe v zhizni, nauke, tekhnike. VII Seriia: Mezhdunarodnaia, no.6) (MIRA 18:4)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

SURKOV, Yuriy Vasil'yevich; POGODIN, L.Ye., red.

[Holiday of the peoples of Czechoslovakia] Prazdnik narodov Chekhoslovakii. Moskva, Izd-vo "Znanie," 1965. 45 p. (Novoe v zhizni, nauke, tekhnuke. VII Seriia: Mezhdunarodnaia, no.8) (MIRA 18:4)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

BECHIN, Aleksandr Ivanovich; POGODIN, L.Ye., red.; SAVCHENKO, Ye.V., tekhn.red.

[Economic conditions in capitalist countries] Ekonomicheskoe polozhenie kapitalisticheskikh stran. Moskva, Izd-vo "Znanie," 1960. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.7, Mezhdunarodnaia, no.23). (MIRA 14:1)

(Economic conditions)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

NALETOV, N.; POGODIN, M.; GRIBANOVA, N.; KISHINEVSKIY, P.

We need help. Sov. profsoiuzy 16 no.22:43 N '60. (MIRA 14:1)

1. Zamestitel' predsedatelya Doma kul'tury, g.Bryansk (for Kishinevskiy).

(Bryansk—Amateur theatricals)

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DUDAREV, L.Ye., kand.tekhn.nauk; POGODIN, M.K., inzh.

Contactor with arc suppression for 660 volt networks. Izv.vys.ucheb. zav.;gor.zhur. 7 no.7:140-143 '64. (MIRA 17:10)

1. Donetskiy politekhnicheskiy institut.

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POGODIN, M. T.; GROBINA, S. Z.; KADYROV, K. K.

Tuberculosis control in Oktyabr'skiy, Bashkirian A.S.S.R. (MIRA 15:7)
Probl. tub. 40 no.5:9-13 '62.

1. Iz Bashkirskogo respublikanskogo protivotuberkuleznogo dispansera (glavnyy vrach S. G. Safinov, nauchnyy rukovoditel' M. N. Karnaukhov) i Oktyabr'skogo protivotuberkuleznogo dispansera (glavnyy vrach K. K. Kadyrov)

(OKTYABR'SKIY(BASHKIRIA)—TUBERCULOSIS—PREVENTION)

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POGODIN, M.T.

Grouping of dispensary contigents. Probl. tuberk., Moskva no.2:67-69 Mar-Apr 1953. (CLML 24:3)

1. Of Bashkir Republic Anti-Tuberculosis Dispensary (Head Physician -- V. K. Ogorodnikov; Scientific Supervisor -- Docent M. N. Karnaukhov).

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POGODIN, N.

26379 Znamya pervenstva. (O rekorde brigady gornoprokhodchikov m. kuznotsova. mosk. ugol'nyy vasseyn. Ocherk.) Smena, 1949, No. 15, s. 6

SO: LETOPIS' NO. 35, 1949

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, NIKOLAY

Wrote about an airplane plant near Stalingrad, its destruction during the war and its reconstruction, Stalingradskaya O., RSFSR

SOVIET SOURCE: N: Izvestiya, 9 May 1946, Moscow
ABSTRACTED IN USAF "TREASURE ISLAND", ON FILE IN LIBRARY OF CONGRESS, AIR INFORMATION DIVISION, REPORT NO. 90158. UNCLASSIFIED

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN N.G.

GROSSMAN, R.I., kandidat tekhnicheskikh nauk; POGODIN, N.G., inzhener.

Testing a SUT-47 grain and grass sowing machines at higher speed. Sel'khozmashina no.11:3-8 N '54. (MLRA 7:11)
(Agricultural machinery)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, N.G., inzhener-mekhanik.

New machine for threshing hemp. Sel'khozmashina no.1:13-14 Ja'55. (MLRA 8:3)

1. Kubanskaya MIS.
(Threshing machines)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, N.G.

Apparatus and attachments for testing combines. Trakt. i sel'khozmash. 33 no.3:29-30 Mr '63. (MIRA 16:11)

1. Povolzhskaya mashinoispytatel'naya stantsiya.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, N.G., inzhener.

Problem of selecting the design for granular superphosphate distributors. Sel'khozmashina no.9:17-18 S '56. (MLRA 9:11)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'nogo transporta i sel'skokhozyaystvennogo mashinostroyeniya.
(Fertilizer spreaders)

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POGODIN, N.G., inzh.

New OVP-20B grain-cleaning machine. Trakt. i sel'khozmash. 30 no.9:37-38 S '60. (MIRA 13:9)

1. Povolzhskaya mashinoispytatel'naya stantsiya.
(Grain--Cleaning)

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POGODIN, N.G., inzh.

The VS-10 grain cleaning machine. Trakt.i sel'khozmash. 32 no.4:38-39 Ap '62. (MIRA 15:4)
(Grain--Cleaning) (Agricultural machinery)

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POGODIN, N.G., inzh.

Testing the PKF attachment and automatic governor of the feeding of the threshing machine of the SK-4 combine. (MIRA 17:6)
Trakt. i sel'khozmash. no.5:23 My '64.

1. Povolzhskaya mashinoispytatel'naya stan siya.

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POGODIN, N.G., inzh.

Metal mesh for the air intake opening of the SMD-7 combine diesel engine. Trakt. sel'khozmash. 31 no.1:23-24 Ja '61. (MIRA 14:1)

1. Povolzhskaya mashinoispytatel'naya stantsiya.
(Diesel engines)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, N.G., inzh.

Results of testing the pick-up equipment of the SK-3 combine. Trakt. i sel'khozmash. 31 no.10:31-32 O '61. (MIRA 14:12)

1. Povolzhskaya mashinoispytatel'naya stantsiya.
(Combines(Agricultural machinery))

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ACC-NR: AP7002996 SOURCE CODE: UR/0413/66/000/024/0098/0099

INVENTORS: Smirnov, V. S.; Lameko, L. N.; Pogodin, N. M.; Kucherevich, O. V.; Bublikov, G. P.

ORG: none

TITLE: A four-stroke three-position liquid distributor. Class 47, 189654

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 98-99

TOPIC TAGS: flow distribution, liquid flow, valve, electromagnetic effect

ABSTRACT: This Author Certificate presents a four-stroke three-position liquid distributor with an electromagnetic drive. The distributor contains a casing within which are mounted a distributing and a guiding valve, two driving electromagnets of the pusher type, and a dual manual control (see Fig. 1). To prevent the working liquid from entering the openings of the acting mechanisms after it escapes through the sealing straps of the distributing valve in its neutral position, annular grooves are cut on the central sealing straps of the distributor valve. These grooves are connected through ducts in the body of the valve to the external end surfaces of the central sealing straps.

UDC: 621.646.657-368

Card 1/2

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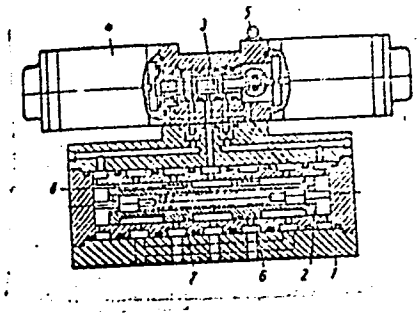
ACC NR: AP7002996

Fig. 1. 1 - casing; 2 - distributing valve; 3 - guiding valve; 4 - electromagnet; 5 - manual control; 6 - sealing strap; 7 - annular groove; 8 - duct



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 26Oct64

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POGODIN, N.Ya.

Economic efficiency of mining thick seams with the use of KTU supports. Ugol' 39 no.5:58-60 My '64. (MIRA 17:8)

1. Shakhta "Tomusinskaya 1-2", Kuzbass.

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POGODIN, N.Ya.

Coal cost reduction at the no.3-3-bis mine in the Kuznetsk Basin. (MIRA 9:7)
Ugol' 31 no.4:36-38 Ap '56.

1.Planovyy otdel shakhty No.3-3 bis.
(Kuznetsk Basin--Coal mines and mining)(Coal--Costs)

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PROCESSES AND PROPERTIES INDEX

Ternary alloys of aluminum, silicon and copper. G. G. URAZOV, S. A. POGODIN AND G. M. ZAMORUEV. *Mineralnoe Suir'e i Tsvetnaie Met.* 4, 160-95(1929).—A study, by thermal analysis, of the Al triangle up to 24% Si and 40% Cu is given. The alloys in this range consist of mech. mixts. of Si, $CuAl_2$ and a solid soln. of Si and Cu in Al. The anly. of Cu is increased by Si in the interval 450-350°. The hardness of the ternary solid solns. was detd. Aging of the alloys at the ordinary temp. diminishes with increasing content of Si. The technical application of the results is considered.

B. C. A.

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B-I-5

Effect of iron on the properties of aluminium.

S. A. Pogodin (Min. Syr. Tsvet. Met., 1929, 4, 616—624).

—Addition of iron up to 5·4% increases the hardness, electrical resistance, and corrodibility of aluminium; up to 2·6% it increases the tensile strength and decreases the elongation and compressibility.

CHEMICAL ABSTRACTS.

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Determination of alumina in aluminum and aluminum alloys. S. A. Pogodin. *Mineral'noe Suir'e i Tsvetnuie Met.* 4, 54-6; *Chem. Zentr.* 1930, I, 713.—For the detn. of Al_2O_3 in Al and Al scraps about 1 g. of substance was heated in the porcelain boat in an elec. oven. A Cu-constantan thermoelement served for the measurement of the temp. The air was replaced by H_2 and, after the temp. had reached 250°, a strong current of HCl was passed through. The temp. rises rapidly and $AlCl_3$ sublimes; the reaction is complete after 15-20 min. Al_2O_3 is detd. in the non-volatile residue. For this purpose the residue is calcined, fused with $K_2S_2O_7$, and dissolved in acidulated H_2O; Cu and other foreign metals are pptd. with H_2S. In the filtrate Fe^{++} is oxidized to Fe^{+++} and a ppt. of $Fe(OH)_3$ and $Al(OH)_3$ is produced. The calcined and weighed ppt. is fused with $K_2S_2O_7$, dissolved and reduced with Zn. Fe is detd. by titration with $KMnO_4$ soln. The Al_2O_3 content is calcd. from the difference between the 2 values. About 0.1% Al_2O_3 was found in "pure" Al, while Al parts contained 0.06% Al_2O_3.

G. Schwoch

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Physical properties and heat treatment of alloys of the manganin type. S. ZHEMCHUZHNII AND S. POGODIN. *Trans. Inst. Metals* (Moscow) No. 8, 3-39(1930). A study was made of the effect of heat treatment on manganin alloys, undertaken to obtain special manganin alloys for resistance coils of elec. measuring app. Several alloys were obtained that had elec. properties equiv. to those of German manganin. E. I. S.

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PROCESSES AND PROPERTIES INDEX

Elimination of arsenic from iron ores. B. P. Selivanov, S. A. Pogodin, A. A. Zvyagin, E. Ya. Lifshitz and M. Ya. Jems-Levi. *Soobshchenya Vsesoyuznogo Inst. Metal.* 1931, Nos. 3-4, 54-67.—A study of the possibility of eliminating As from Kerchensk iron ores, contg. about 0.13% As on dry basis, by means of gases, was made from 3 angles: (1) temp., (2) nature of the gas and (3) nature of the As compds. in the ore. Parallel with this were also conducted expts. to remove As from artificially prepd. compds. $As_2O_3Fe_2O_3$ and $As_2O_5Fe_2O_3$. In one series of expts. $As_2O_3Fe_2O_3$ was treated with a gas mixt.: Cl_2 10%, CO 20% and CO_2 70%, at 600°, 700°, 800°, 900° and 1000°. In another series, Kerchensk ore was treated with the same gas mixt. at above at 800°, 900°, 1000° and 1100°. In a third series, Kerchensk ore was treated with the gas mixt.: Cl_2 1%, CO 22% and CO_2 77%, at 800°, 900°, 1000° and 1100°. Cl_2 does not assist the removal of As and may even be detrimental. Therefore, in a fourth series of expts. Cl_2 was eliminated. Arsenic begins to diminish at 800° and reaches a min. at 1100°. The greatest removal of As from ore at temps. above 900° occurred in a gas mixt. CO: CO_2 = (25–40%):(75–60%), or in H_2O vapor when 5–10% coke was added to the ore. In this last case the CO and H_2 resulting from the H_2O and C reduce As_2O_3 to As_2O_3 or to As. Formation of AsH_3 is also likely. On treatment of the ore with a mixt. of CO: H_2 = 1:1 the removal of As is retarded. This can be explained on the ground that a partial reduction of Fe_2O_3 takes place, and the Fe absorbs As and retains it in the solid state. The above results will be used as a basis for a semi-commercial plant for the removal of As from iron ores. Tables and graphs (18) are given. S. L. Madorsky

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[redacted]

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CA

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Corrosion of galvanized iron in aerated boiling water and in air-steam mixtures. S. A. Pogodin and M. S. Guseva. *Soobshchenia Vsesoyuznogo Inst. Metal.* 7, 84-8(1931).—Galvanized iron exposed to aerated boiling water or to a mixt. of air and steam is much more resistant to corrosion than lead-coated iron. Of the galvanized Fe samples, the one with the thicker Zn coating is the more corrosion-proof. H. Cohen

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*Chemical Methods of Testing Zinc-Coated Iron. S. A. Pogodin and M. S. Gusova (*Metallurg* (*Metallurgist*), 1932, (10-11), 25-32; (12), 3-12).—[In Russian.] The comparative study of chemical methods of testing zinc-coated iron indicates that the Preece test is characteristic of neither the thickness of the zinc layer, nor of its resistance to corrosion, and serves only as an estimate of its uniformity, but not its quality. Only the methods of Opperle and Bauer can be recommended for general acceptance and control tests. Opperle's method requires less time, whilst Bauer's method is more convenient, both giving closely similar results. For a qualitative estimation of the resistance to corrosion of electrodeposited zinc coatings Wernlund's test is useful.—N. A.

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PAVLOVA, Ol'ga Igorevna; POGODIN, S.A., zasl. deyatel' nauki i tekhn. RSFSR, prof., otv. red.; CHERNOV, A.N., red.izd-va; SIMKINA, G.S., tekhn. red.

[History of the technique of electric deposition of metals] Istoriia tekhniki elektroosazhdeniia metallov. Moskva, Izd-vo AN SSSR, 1963. 126 p. (MIRA 16:7)
(Electroplating)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

POGODIN, S.A.

Chemistry at the Petersburg Academy of Sciences before M.V. Lomonosov. Trudy Inst.ist.est.i tekh. 39:3-23 '62. (MIRA 16:2)

(Academy of sciences of the U.S.S.R.) (Chemistry)

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POGODIN, S.A., prof.; BERKOVICH, Ye.S., kand.tekhn.nauk

"Microhardness of metals" by V.M.Glazov and V.N.Vigdorovich. Reviewed by S.A.Pogodin, E.S.Berkovich. Zav.lab. 29 no.5:638-639 '63. (MIRA 16:5)

(Metals--Testing) (Hardness) (Glazov, V.M.) (Vigdorovich, V.N.)

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***The Production and Properties of Manganin.** S. A. Pogodin and E. M. Lekarenko (*Metallurg* (*Metallurgist*), **1933**, (1), 70-83). [In Russian.] Manganin is melted in graphite crucibles and in a crude-oil furnace. Electrolytic copper and nickel are first alloyed in the covered crucible under a layer of charcoal, and the manganese, preheated to 300°-400° C., is then introduced. The casting temperature is about 1080°-1100° C. and the surface of the ingots is planed to remove surface defects. Before rolling, the ingots are soaked for 1 hr. at 800°-850° C. During rolling, it is essential to use only small reductions in the first 3-4 passes but thenceforward the rolling down to 0·5 mm. is continued as for copper. Prior to drawing the rolled piece is annealed at 700°-750° C. for 1·5 hrs., and pickled at 60°-70° C. in 10% sulphuric acid containing 2% of chromic acid. Drawing is carried out as for copper, with intermediate anneals at 650°-500° C. and a final anneal at the same temperature. Annealed Manganin has a minimum tensile strength of 42 kg./mm.², elongation 20%, specific electrical resistance 41 μΩ/cm.³, thermal coeff. of electrical resistance + 0·00001-0·00003 with a maximum thermo-electric power of 1μV/1°.—N. A.

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Production of Nichrome. S. A. Pugodin, A. I. Bass, G. A. Kagan, E. M. Lekarenko and V. I. Mikheeva. *Metallurg*, 1933, No. 2, 15-26, No. 3, 19-35.—Expts. to produce Nichrome in a high-frequency furnace show that use of vacuum is not necessary but makes deoxidation much easier. A fine-grained structure is obtained by casting at 1450-1480°. Details for rolling and annealing the wire are given. H. W. R.

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M

***Experiments on the Drawing of Nichrome.** S. A. Pogodin and E. M. Lekarenko (*Metallurg* (*Metallurgist*), 1933, (6), 36–42).—[In Russian.] A description is given of methods of drawing and annealing of rolled billets of Nichrome, including drawing in a copper sheath. A scheme of drawing based on the results of numerous experiments is outlined. - N. A.

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Ternary system: aluminum-copper silicon. G. G. Urazov, S. A. Pugadin and G. M. Zamorusev. *Ann. inst. anal. phys.-chim.* (Leningrad) 6, 265-6(1933); *Met. Abstracts* (in *Metals & Alloys*) 5, 42.—The thermal method was used for construction of the liquidus of the part of the ternary diagram in concns. up to 24% Si and 40% Cu. The boundary of the ternary solid solns. of Cu and Si in Al at different temps. was detd. by microscopic investigation of the quenched alloys. The ternary eutectic has the compn: Si 5, Cu 27 and Al 68% and the temp. 525°. The hardness of the ternary alloys was also detd. by Brinell method. G. G.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

Effect of cadmium on the properties of the copper conductors. S. A. Pogodin. *Ann. inst. anal. phys.-chim.* (Leningrad) 6, 287-8(1933); *Met. Abstracts* (in *Metals & Alloys*) 5, 71.—The elec. and mech. properties of the Cu-Cd alloys with 0.15-0.98% Cd have been investigated. The cold-worked wire with 0.98% Cd has the tensile strength 60 kg./sq. mm. and elec. cond. 85.5% of standard Cu. The cold-hardened Cu-Cd wire retains its mech. properties up to 250° (30 min. annealing). G. G.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

Ultra-Light Alloys of Great Strength. S. A. Pugalin (*Izvestia Institute Fiziko-Khimicheskogo Analiza* (*Ann. inst. anal. phys.-chim.*, 1933, **6**, 295-310; *C. Abs.*, 1934, **28**, 390).—[In Russian.] A review of physico-chemical properties of commercial magnesium and of the physico-chemical properties and phase diagrams of the alloys of magnesium with metals of groups I, II, and III of the periodic table. A bibliography of 62 references is given. - S. G.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

Manufacture of Nichrome ribbon. S. A. Pogodin. *Repts Inst Metals, Leningrad* 1933, No. 13, 97-105(in English 106).—Nichrome was prepd in a graphite crucible lined with magnesite, in a high-frequency induction furnace. The product analyzed: Ni 57, Cr 14-18, Mn max. 3, C 0.25, Si 0.04, S 0.03 and Fe 23-25%. Hot- and cold-rolling tests are described.

S. L. Madorsky

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†On the Production and Properties of Pure Manganese. S. A. Pogodin (*Metallurg* (*Metallurgist*), 1936, (2), 101-110).—[In Russian.] A review of the literature.—N. A.

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M

***Limits of the α-Phase in the System Copper-Cadmium.** S. A. Pogodin, V. I. Micheeva, and G. A. Kagan (*Izvestia Instituta Fiziko-Khimicheskogo Analiza* (*Ann. Inst. Anal. Phys.-Chim.*), 1935, 7, 39-47).—[In Russian.] The solid solubility of cadmium in copper is: room temperature 1·0%, 250° C., 1·2%; 400° C., 1·6%; 475° C., 2·1%; 525° C., 2·5%, and 550° C., 2·8%. The limits of the α-phase were determined.—S. G.

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M

Pogodin, S. A. *Alloys for Electric Cables and Rheostats.* [In Russian.] Pp iii + 291. 1936. Moscow and Leningrad: Onti. (Rbl. 5.00.)

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M

Experiments on Alloying Niobium with Iron, Cobalt, and Nickel. S. A. Pogodin, N. F. Blagov, and M. B. Reifman (*Metallurg* (*Metallurgist*), 1957, (8), 2-8). [In Russian.] The authors have developed an aluminothermic method for obtaining alloys of iron with niobium 3·35-57·02, tantalum 0·18-4·94, and aluminium 0·10-0·33%. Microstructural analysis shows the existence of the compound Fe_2Nb, in which iron dissolves to a limited extent. The eutectic between the solid solution of niobium in iron and Fe_2Nb lies at 15-20% niobium. Alloys also obtainable by means of aluminothermy are: (1) 53·0% Co, 36·0% (Nb + Ta) calculated as pure Nb, 9·87% Fe, 0·02% Al; (2) 29·8% (Nb + Ta); 60·3% Ni, 8·7% Fe, 0·50% Al.—N. A.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

Production of alloys of columbium with iron, cobalt and nickel. S. A. Pogodin, N. P. Blagov and M. B. Reitman. *Metallurg* 12, No. 8, 5-8(1937).—Cb oxide contg. 90% Cb_2O_5 and Fe_2O_3 were reduced with Al to produce an alloy contg. Cb 53.9, Fe 34.9 and Al 4.7%. Cb recovery was 80% with 20% excess Al. Cb Co and Cb Ni alloys were similarly prepd. H. W. Rathmann

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*Nickel-Niobium Alloys. S. A. Bogatin and A. N. Zelikman (*Metallury* (*Metallurgist*), 1960, (1), 8-14).—[In Russian.] An aluminothermic process for the production of nickel-niobium hardeners, containing up to 70% niobium and only a minute admixture of aluminium, was developed. Micro-examination and hardness measurements point to the existence of a compound Ni_3Nb. The limiting solubility of niobium in nickel at 900° C. is between 11 and 12 weight-% niobium. The corrosion-resistance of nickel towards hydrochloric acid increases with addition of niobium up to the solid solubility limit.—N. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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9

The effect of small additions of magnesium and silicon on the properties of beryllium bronze. S. A. Pogodin and N. Kh. Abrikosov. *Metallurg* **1939**, No. 12, 57-65; *Khim. Referat. Zhur.* **1940**, No. 8, 80.—P. and A. investigated the effects of Mg (0.05, 0.2, 0.4 and 0.6%) and Si (0.15, 0.3 and 0.5%) added separately on the properties of Be bronze contg. 2.0 and 2.5% of Be, and studied the mech. properties of rolled alloys after heat-treatment and aging at 270, 310 and 350°. 0.05% of Mg has no effect on the mech. properties. Higher contents of Mg (more than 0.24%) sharply decrease the mech. properties owing to the appearance of the Cu,Mg phase. Si in amts. of not more than 0.3% is permissible. Optimum mech. properties are possessed by bronzes contg. Si 0.12 and Be 2.5% and contg. Si 0.05 and 0.14% and Be 2%.

W. R. Henn

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M

2

*Copper-Zirconium Alloys. B. A. Pogodin and I. S. Shumova (Izvest. Sekt. Fiziko-Khimich. Analiza. (Ann. Secteur Anal. Phys.-Chim.), 1940, 13, 225-232).—[In Russian.] Copper-zirconium alloys containing up to 35·65% zirconium were prepared by melting in a magnesite crucible in a Kryptol furnace, the best results being obtained when using a KCl-NaCl mixture in equimolecular proportions as flux. The constitutional diagram was determined by thermal analysis and confirmed by microscopic examination. The liquidus consists of two branches marking the primary crystallization of copper and of the β phase, respectively. The point of intersection at the eutectic is at 12·9% zirconium, 980° C. The β phase consists of the compound Cu_5Zn (32·65% zirconium) with a melting point of 1138° C. The solid solubility of zirconium in copper was investigated microscopically. The limiting solubilities are 0·9% at 925° C., 0·7% at 825° C., and 0·25% at 600° C. These experimental results agree very well with those calculated from Le Chatelier's expression. The existence of precipitation-hardening in copper-zirconium alloys was confirmed by hardness tests on cast alloys quenched from 900° C. and heat-treated at 300° C. for periods up to 20 hrs. The hardness-heat-treatment-time curves after falling to a minimum at the beginning rise to a well-marked maximum, the hardness then falling off slightly, and after passing through a second flat maximum ultimately declining.—A. B.

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M

2

*Phases of Variable Composition in the Lead-Sodium System. N. S. Kurnakov, S. A. Pogodin, E. S. Shpichinetskiy, and V. S. Zorin (*Izvest. Sekt. Fiziko-Khimich. Analiza.* (*Ann. Secteur Anal. Phys.-Chim.*), 1940, 13, 233–250).—[In Russian.] The constitutional diagram of the lead-sodium system was re-examined by thermal analysis for alloys with up to 10% sodium (50 atomic-%). The results agree satisfactorily with those of other investigators. The liquidus consists of three branches corresponding respectively to the primary crystallization of α (0–21 atomic-% sodium), and the compound NaPb (39·5–50 atomic-% sodium). The α + β eutectic (21 atomic-% sodium) melts at 299° C. The melting point of β + NaPb eutectic (39·5 atomic-% sodium) is 370° C. The solid solubility of sodium in lead was determined by hardness tests and found to decrease with temperature from 14·4 atomic-% at the eutectic temperature to 2·8 atomic-% at room temperatures. The latter figure was confirmed by investigations on age-hardening at room temperature. Changes were followed by hardness tests and electrical-conductivity measurements. Quenched specimens aged more rapidly than chill-cast specimens, and alloys with more than 0·65% (5·6 atomic-%) sodium—the limiting solubility at 100° C.—aged still more rapidly on heating to that temperature. Comparison with cadmium, mercury, tin, arsenic, antimony, and bismuth showed that sodium has the maximum hardening effect on lead. Investigations by hardness tests and electrical-conductivity measurements confirmed the variable composition of the β phase and gave its homogeneity limits as 26–33 atomic-% sodium. AB

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A

N. N. Nagornov, S. A. Pogodin, J. Applied Chem. (U. S. S. R.) 13, 301-3(1940).—An obituary with a list of publications. A. A. Podgorny

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9

Solid solutions of beryllium and magnesium in copper. S. A. Pogodin and I. S. Shumova. *Bull. acad. sci. U. R. S. S. Classe sci. chim.* **1940**, No. 5, 763–74.—Twelve alloys contg. 0.5–2.5% Be and 0.4–0.8% Mg were investigated, and the copper corner of the ternary system Cu–Be–Mg was detd. by means of methods of thermal analysis, microstructure and hardness. Electrolytic Cu and Cu-Be-Mg alloys, contg. 7.6–10.0% Be and 1.1–4.2% Mg, and also a Cu-Mg alloy with 27% Mg were used for making these alloys. The limits of the α-phase, i. e., ternary solid soln. of Be and Mg in Cu at 800°, 650°, 500° and 250°, sepg. the region of α-phase from the adjacent heterophasic regions were detd. The mutual decrease of soly. of Be and Mg in solid Cu by each other is shown. The aging of all ternary alloys obtained and the retarding of the aging of alloys contg. 2.0 or 2.5% Be and 0.4–0.8% Mg were studied. Alloys contg. 2.5% Be and 0.4% Mg as well as 1.8% Be and 0.4–0.8% Mg, after hardening at 800° and aging at 350°, have the same hardness as the Mg-free alloys with 2.5% Be, but they have less impact strength than Mg-free bronzes. Aging appeared in alloys contg. 0.5% Be and 0.8–2.8% Mg. 16 references. S. Machelson

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***Copper-Zirconium Alloys.** S. A. Pogodin, I. S. Shumova, and F. A. Kugutsheva (*Compt. rend.* (*Doklady*) *Acad. Sci. U.R.S.S.*, 1940, **27**, 670–672; *Brit. Abs.*, **1940**, [A I], 18).—Thermal analysis of copper-zirconium alloys containing up to 36% of zirconium shows primary crystallization of copper-rich solid solutions and of Cu_5Zr or solid solutions of copper in Cu_5Zr, with a eutectic at 980° C., 12·9% of zirconium. The dystectic point corresponding to Cu_5Zr is at 1140° C., 32·4% of zirconium. The microstructure of quenched samples annealed at various temperatures shows that the solubility of zirconium in copper is 0·9% at 925° C., 0·7% at 825° C., and 0·28% at 600° C. The addition of 0·14–0·30% of zirconium increases the resistance of work-hardened copper to annealing at 400–500° C., and decreases its conductivity by 15%.

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The electric conductivity and hardness of Mn-Cu alloys. S. A. Pogodin. *Ann. secteur anal.-phys. chim., Inst. chim. gen.* (U. S. S. R.) 13, 397-405(1941); *Khim. Referat. Zhur.* 4, No. 9, 37(1941); cf. Zhemchuzhnyx and Petrashevich, *C. A.* 12, 358.—Newest data are given on the diagram of state of the system Cu-Mn and on the prepn. of pure Mn by vacuum distn. and by electrolysis of aq. solns. of Mn salts. The properties of polymorphous modifications of Mn are discussed and the reasons for the difference in the results of various authors in their studies of the elec. resistance and hardness of Cu-Mn alloys are detd.

W. R. Henn

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The Mechanical and Electrical Properties of Solid Solutions of Zirconium in Copper. S. A. Pogodin and F. A. Kugucheva (*Izvest. Sekt. Fiziko-Khim. Anal.* (*Akad. Nauk S.S.S.R.*), 1941, 14, 255–261).—(In Russian.) Cf. Pogodin and Shumova, *ibid.*, 1940, 13, 25; *Met. Abs.*, 1941, 8, 295. P. and K. have determined the tensile strength, elongation, electrical resistance and conductivity at 25° and 100° C., and temperature coeff. of resistance in the range 25°–100° C. of copper–zirconium alloy wires containing 0·14, 0·30, and 0·74% zirconium, as drawn and also after 30 minutes' annealing at 200°–700° C. at 100° C. intervals. In addition, the age-hardening properties of these three alloys and of a fourth containing 1·12% zirconium were studied by taking Brinell hardness measurements on small ingots (i) as quenched after 3 hrs. at 900° C., (ii) as subsequently annealed for various periods at 300° and 400° C., and (iii) as quenched, cold-rolled to 60% reduction in thickness, and annealed at 300°, 350°, and 400° C. The greatest Brinell hardness (123) was given by the alloy containing 0·74% zirconium, quenched, cold-rolled, and aged for 18 hrs. at 350° C. The results, which are given in a series of tables and graphs, lead to the conclusion that small additions (0·15–0·30%) of zirconium may be useful in cases where copper must retain its hardness and strength on heating to 400°–500° C. without serious reduction of conductivity. Hence one may expect copper with 0·15–0·30% zirconium to be used for parts of electrical apparatus which are subject to heat and pressure in service.

—N. B. V.

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CA

Ternary alloys of magnesium with aluminum and cerium. S. A. Pogodin and V. I. Mikheeva (Inst. Gen. Inorg. Chem., Acad. Sci. U.S.S.R., Moscow). *Izv. Sektor anal. phys. chim., Inst. chim. gén.* (U.R.S.S.) 14, 283-97(1941). To study the Mg end of the Mg-Al-Ce system, an investigation was made within the limits of the first binary compds., Al_3Mg_4 (51.6% of Mg) and $CeMg_6$ (39.1% of Mg). Equil. in the triangle Al_3Mg_4-Mg-$CeMg_6$ is characterized by the crystn. of at least 3 Al-Ce compds. The most stable of these is Al_2Ce. Al_2Ce is manifested by its forming a double eutectic with the γ-phase and a triple eutectic with the α-soln. and Al-Ce at 561°. In the region of Al_2Ce-Mg-$CeMg_6$ appears a const. point which is presumably a triple eutectic of Al_2Ce, α-soln., and $CeMg_6$. The appearance of the highly refractory Al-Ce compds., and particularly Al_2Ce, hinders the expt. finding of all the equil. components. This is particularly so for alloys with a high Al content. The soly. of Ce in Mg declines with the addn. of Al. The soly. of Ce in alloys along the Mg-Al side is very small. The soly. of Al in Mg is affected significantly by addns. of Ce up to 1.5% Ce up to 0.3, and particularly up to 0.1% Ce, retards the aging of Mg-Al alloys. The max. aging effect remains the same as that of the binary Mg-Al alloys. M. Hoch

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Diagram of state for the nickel-niobium system. S. A. Pogodin and A. N. Zelikman (*Compt. rend. Acad. Sci. U.R.S.S.*, 1941, **31**, 895—897).—Thermal analysis indicates the existence of an α phase from 0 to 23·5% Nb, consisting of a solid solution of Nb in Ni, a β phase from 23·5 to 51·6% Nb, consisting of a solid solution of Nb in Ni_3Nb, and from 51·6% Nb upwards another compound, probably NiNb, which separates as a γ phase. There are two eutectics, one on each side of Ni_3Nb. One consists of α and β phases, contains 23·5% Nb, and has m.p. 1270°. The second has m.p. 1175°. The hardness of these alloys has been investigated. The solubility of Nb in Ni was studied by examining the microscopic structure of a series of Nb–Ni alloys. A. I. M.

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CA

2

Antoine Lorraine Lavoisier, the founder of the chemistry of modern times, the bicentenary of his birth. S. A. [illegible] Uspekhi Khim. 12, [illegible](1943).—Emphasis is placed on the influence of Lavoisier's teachings on Russian scientific development. A portrait is included. [illegible] from the "Elementary Treatise on Chemistry" of A. L. Lavoisier. Anon. Ibid. [illegible] "Combustion in general" by A. L. Lavoisier. Anon. Ibid. [illegible] notes on the above papers of A. L. Lavoisier. [illegible] Ibid. 306-7, 373.

F. H. Rathmann

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The History of the Study of Solid solutions. N. S. Kurnakov and S. A. Pogodin (*Izvest. Sekt. Fiziko-Khim. Anal.*, 1943, 16, (1), 7-12).—[In Russian]. A short account.—N. A.

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2

[illegible] of Various Composition in the Nickel-Niobium System. S. A. Pogodin and A. N. Zelikman (*Izvest. Sekt. Fiziko-Khim. Anal.*, 1943, 16, (1), 158–166).—[In Russian]. The nickel–niobium system has been studied up to 64 wt.-% niobium by the methods of thermal and microstructural analysis and, in part, by measurements of hardness and electrical resistance. The solubility (in wt.-%) of niobium in nickel is 20·3 at 1258°, 18 at 1200°, 15 at 1100°, and 10·7 at 900° C. Nickel forms a compound with niobium, corresponding to Ni_2Nb, which melts at 1403° C. and forms solid solutions with its component metals in the range 32·5–36 wt.-% niobium. Ni_2Nb has a lattice different from those of nickel and niobium, and it is marked by a minimum on the hardness–composition curve. Solid solutions based on Ni_2Nb form two eutectics: (*a*) with the solid solution of niobium in nickel at 23·5 wt.-% niobium, 1275° C.; and (*b*) with the niobium-rich γ-phase at 51·6 wt.-% niobium, 1175° C.—D. A.

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2

S. A. Pugolin: (Outlines of the History of the Academy of Sciences (U.S.S.R.), Chemical Sciences.) Moscow: Academy of Sciences. Printed by the 2nd Printing House of the Pub. House of the Academy of Sciences. 1945. 118 pp. 6 R.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520014-0

CA

History of chemistry in the Academy of Sciences of the U.S.S.R. during 220 years. S. A. Pogodin. *Bull. acad. sci. U.R.S.S., Classe sci. chim.* 1945, 170-91.—Historical review from 1725 to the present time, by periods and by branches: general and inorganic, organic, physical chemistry. N. Thon

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POGODIN, S. A.

PA 54T66

USSR/Metals
Lead Alloys
Magnesium

Sep 1947

"Solid Solutions of Magnesium and Lead," N. S. Kurnakov (Deceased), S. A. Pogodin, T. A. Vidusova, IONKh, AN, SSSR, Leningrad Polytech Inst imeni M. I. Kalinin Lab Gen Chem, 4½ pp

"Izv Sektora Fiz-Khim Analiza" Vol XV

Using data obtained in 1929, describes physical-chemical methods of analyzing lead solutions which have small additions of magnesium. Lead solutions, with small additions of magnesium, lent themselves readily to natural aging. Hardness of aged cast

LC 54T66

USSR/Metals (Contd) Sep 1947

alloys, with 0.5 to 0.7% by weight of magnesium, was 15. Hardness of alloys which had 1.4% by weight of magnesium was as much as 20. Submitted, 15 Nov 1940.

LC 54T66

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2

"On the Properties of Low-Beryllium Beryllium Bronzes Containing Additions of Other Components [Nickel and Chromium]. S. A. Pogodin, N. Kh. Abrikosov, and N. M. El'khones (*Izvest. Sekt. Fiziko-Khim. Anal.*, 1946, **16**, (2), 197-200). [In Russian]. Work was carried out with two objects: (1) To investigate the possibility of reducing the beryllium content of beryllium bronze to 1·5% without causing any deterioration in mechanical properties; and (2) to try to develop a copper-beryllium alloy to replace the copper-tungsten alloy "Kirit" used for electrode tips in electric welding machines. As a result of the work, an alloy was found, containing beryllium 1·5, nickel 0·2%, which has good casting properties and which does not differ, as regards mechanical and thermal treatment, from ordinary beryllium bronze. The mechanical properties of the new alloy after heat-treatment approximate to those of a bronze containing 2·35% beryllium. As a substitute for Kirit, an alloy containing beryllium 1–1·5, nickel 0·2, and chromium 0·3% is proposed. —D. A.

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ANOSOV, V. Ya. and POGODIN, S. A.

Osnovnye Nauala Fiziko-Khimiueskogo Analiza (Elementary Fundamentals of Physical-Chemistry Analysis), 876 p., Publishing House of AS USSR Moscow, 1947.

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PA 58T2

POGODIN, S. A.

USSR/Academy of Sciences
Chemistry - History

Oct 1947

"Thirty Years of Soviet Chemistry," Prof S. A. Pogodin, Dr Chem Sci, Assoc Prof Sci Engin, 4 pp

"Nauka i Zhizn'" No 10

General account of 30 years of development of chemistry in Soviet Union. Mentions names of scientists most responsible for great advances made in Soviet chemistry.

[redacted]

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POGODIN, S. A.

PA 54T64

Sep 1947

USSR/Metals
Lead Alloys
Lithium

"Solid Solutions of Lithium and Lead," S. A. Pogodin, Ye. S. Shpichinetskiy, IONKh, AN, SSSR, Sci Res Inst Polygraph Pub Techniques, 7½ pp

"Izv Sektora Fiz-Khim Analiza" Vol XV

Records some studies made concerning lead angle in triple system lead-sodium-lithium. Purpose is better understanding of solid solutions of lithium and lead. Among phenomena observed was aging of alloys at room temperature. Submitted, 20 Nov 1940.

54T64

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CA

Ternary alloys of lead with sodium and lithium. S. A. Pogodin and E. S. Shpichinetskii (Inst. Gen. and Inorg. Chem., Acad. Sci. U.S.S.R., Moscow). *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* **15**, 96-111(1947); cf. *C.A.* **36**, 4701[8]; and preceding abstr.—Pb-Na-Li alloys with up to 50 at. % of Na and up to 50 at. % of Li were subjected to thermal analysis and their hardness and microstructure were studied. On the system's phase diagram the surface of the liquidus comprised 4 areas of crystn. of α,β NaPb and LiPb phases. The system formed 3 eutectics: (1) m. 231° contained Li 16 at. %, Na 5 at. %, and the rest Pb, (2) m. 205° contained Li 12.3 at. %, Na 27.5 at. %, and the rest Pb, and (3) a eutectic formed by NaPb and LiPb, m. 310°, and contg. Li 15 and Na 35 at. %. On the phase diagram was clearly seen the existence of a berthollide type β-phase. The boundaries of the triple solid soln. at 200 and 20°, regarded only as an approximation, were also detd. The alloys with greatest hardness had Na 0.6-0.8 and Li 0.03-0.06%. M. H.

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1

New biographical material about D. I. Mendeleev.
S. A. Pogodin. *Uspekhi Khim.* 16, 217-30(1947).
N. Thon

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In memory of Nikolai Nikolovich Efremov. S. A. Pogodin. *Uspekhi Khim.* 16, 372-3(1947); *Chem. Zentr.* 1947, I, 1087. M. G. Moore

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PA40T6

POGODIN, S. A.

USSR/Chemistry - Literature Sep/Oct 1947
Chemistry - Biographies

"Thirtieth Anniversary of Soviet Chemical Literature," S. A. Pogodin, Moscow, 5 pp

"Uspekhi Khimii" Vol XVI, No 5

Briefly discusses advances made in Soviet chemical literature. Describes various major contributors and some of their more important articles. Photographs of such scientists as A. V. Palladin, M. M. Dubinin, and A. N. Terenin.

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Attempts at using the method of microhardness in physico-chemical analysis of metal systems. S. A. Pogodin, L. M. Kefeli, and E. S. Berkavich. *Inost. Sektora Fiz.-Khim. Anal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* 17, 193-9(1949).—Six basic types of compn.-microhardness are derived for 2-component systems: (1) the components *A* and *B* are mutually sol. in all proportions; (2) *A* and *B* crystallize in their pure states from a liquid phase; (3) *A* and *B* form a compd. A_mB_n; (4) *A* and *B* form a limited solid soln. with a eutectic; (5) the components form a daltonide A_mB_n which combines with its components to yield a limited solid soln., and in addn. 2 solid solns. are formed based on *A* and *B*, resp.; and (6) in addn. to 2 solid solns., based on *A* and *B*, resp., form a berthollide. The above was tested experimentally on the systems Sn-Mg and Pb-Mg. No solid solns. based on Mg_2Sn were found. There was found a small region occupied by a solid soln. based on Mg_2Pb. M. Hosch

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Diagram of state of the system aluminum-indium. S. A. Pogodin and I. S. Shumova. *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* 17, 200-3(1949).—Al and In did not combine into chem. compds. In the liquid state they were mutually sol. only to a limited extent. At 640° the sepn. into layers extended from 12 to 97% In. There were practically no solid solns. in the system. The system formed a eutectic which crystd. at 152°.

M. Hosch

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Diagram of state of the system indium-antimony. S. A. Pogodin and S. A. Dubinskii. *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* 17, 204-8(1949).—Indium and Sb were mutually sol. to an unlimited extent in the liquid phase. Upon cooling they crystd. into 3 solid phases In, Sb, and InSb. The latter melted at 536° and formed with its component 2 eutectics of which one was located near pure In and melted at 155°, and the other contg. 70.4 at.% of Sb, m. 505°. M. Hosch

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POGODIN, S.A.; KEFELI, L.M.

Study of solid solution of the Mg-Pb-Sn system rich in magnesium. Izv. Sekt. fiz. khim. anal. 18:86-91 '49. (MIRA 11:4)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR.

(Magnesium) (Lead) (Tin)

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