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36254
S/035/62/000/003/024/053
A001/A101

3,1560

AUTHOR: Goncharov, F. P.

TITLE: A new method of calculating azimuths of the North Star at Laplace points

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 6, abstract 3G54 ("Tr. Latv. s.-kh. akad.", 1960, no. 9, 425-435)

TEXT: A formula for calculating azimuths of the North Star is derived: $tgA = tgA_e/chx$, where A_e is the North Star azimuth in its conditional elongation corresponding to the polar distance of the star at the instant of its observation; chx is hyperbolic function taken from the tables with argument $e^{-x} = [(1 + k)/(1 - k)]^{1/2} tg(t_1/2)$, ($t_1$ is hour angle of the North Star), $k = tg\Delta tg\varphi$ - is a parameter. The article has an appendix containing the seven-digit table of the function $lg [(1 + k)/(1 - k)]^{1/2}$ compiled for argument k for the latitude range from 35 to 67°. An example of calculating the azimuth of the North Star with an accuracy of 0".01 is given using the recommended formula and tables. It is noted that the proposed method of determination, in large-scale calculations

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A new method of calculating azimuths ... S/035/62/000/003/024/053
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and using suitable tables of hyperbolic functions and an adding machine, saves calculation time without impairing the accuracy of results. There are 10 references.

F. Rogovskiy

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GEFDI'G, A.K., inzhener; GONCHAROV, F.S., inzhener.

Experimental use of water reducing needle filters. Biul.stroi.tekh. 10 no.3:24-25 F '53. (MLRA 6:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolisnoy i sul'fitno-spirtovoy promyshlennosti Minmashstroya. (Pumping machinery)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

POPOV, V.N., kandidat tekhnicheskikh nauk; GONCHAROV, F.S., inzhener; SOLOVOV, A.N., inzhener.

Instrument for the automatic measurement of water and other fluid flow by the volumetric method. Rats. i izobr.predl.v stroi. no.94:24-28 '54. (MIRA 8:8)

1. Otdel izobretatel'stva i ratsionalizatsii Ministerstva stroitel'stva. (Flow meters)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, F. S.

~~GONGAROV, F. S.~~

GONCHAROV, F. S. - "Investigation of the Operation of Low-Capacity Two-Stage Settling Tanks for the Purification of Agricultural-Residential Waste Waters." Min Higher Education USSR. Leningrad Order of Labor Red Banner Construction Engineering Inst. Leningrad, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

So: Knizhnaya Letopis' No 3, 1956

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MAKSIMOV, L.Kh., kandidate tekhnicheskikh nauk; GONCHAROV, F.S., inzhener.

Two-level sedimentation tank with putrefaction side chambers. Sbor. trud.VNIIGS no.6:78-81 '55. (MLRA 9:7)
(Septic tanks)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, F.S., kand.tekhn.nauk; FREYDLIN, G.I., inzh.; SLADKOMEDOV, N.I., inzh.

Asbestos-cement sewage stand pipes for industrial buildings and apartment houses. Nov.tekh.mont.i spets.rab.v stroi. 21 no.9:21-22 S '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (for Sladkomedov).
(Pipe, Asbestos-cement)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

KARPENKO, P.V.; YAKIMENKO, I.Ya.; GONCHAROV, G.A.

Mechanization of labor-consuming processes involved in the growing of sugar-beet seeds. Sakh.prom. 34 no.8: 58-59 Ag '60. (MIRA 13:8)

1. Voronezhskiy sel'skokhozyaystvennyy institut (for Karpenko, Yakimenko). 2. Mikhaylovskiy sveklosovkhoz (for Goncharov).
(Sugar beets)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G. A.

PHASE I BOOK EXPLOITATION SOV/4199

Leningrad. Politekhnicheskiy institut

Sovremennyye dostizheniya liteynogo proizvodstva; trudy mezhvuzovskoy nauchno-tekhnicheskoy konferentsii (Recent Achievements in Founding: Transactions of the Scientific and Technical Conference of Schools of Higher Education) Moscow, Mashgiz, 1960. 336 p. Errata slip inserted. 4,000 copies printed.

Resp. Ed.: Yu. A. Nekhendzi, Doctor of Technical Sciences, Professor; Eds.: N. G. Girshovich, Doctor of Technical Sciences, Professor, and K. P. Lebedev, Docent; Managing Ed. for Literature on Heavy Machine Building (Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer; Tech. Eds.: Ye. A. Dlugokanskaya, and L. V. Shchetinina.

PURPOSE: This book is intended for the technical personnel of foundries. It may be used by students of the field.

COVERAGE: This collection of articles discusses problems in founding processes. Individual articles treat the melting of metals and their alloys, mechanization and automation of casting processes, aspects of the manufacture of steel, cast iron, and nonferrous metal castings. No personalities are mentioned. References accompany individual articles.

Recent Achievements in Founding (Cont.) SOV/4199

31. Trubitsyn, M. A. Investigation of Some Factors Affecting the Formation of Hot Cracks in Steel Castings 228

32. Gruzovich, I. V., and Yu. A. Nekhendzi. Acid Resistant Cast Steels 235

33. Gruzovich, I. V. Effect of Processing Factors on the Formation of Hot Cracks in Steel Castings 242

34. Gonchar'ov, G. A. Heating of Risers of Steel Castings 247

35. Yermolayeva, N. P. Some Problems of Creep in Austenitic Cast Steels 252

VI. IRON CASTINGS

36. Landa, A. P. Some Problems of Improving the Quality of Cast Iron 259

37. Sharpanov, T. A., and E. V. Petrova. Specific Features of Solidification of Magnesium-Modified Cast Iron 265

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.A.; GRATSERSHTEYN, I.M.

Increasing the over-all utilization of raw materials in the Ural Mountains copper smelting industry. Izv. vys. ucheb. zav.; tsvet. met. 3 no.3:155-160 '60. (MIRA 14:3)

1. Krasnoyarskiy institut tsvetnykh metallov, Kafedra organizatsii i planirovaniya proizvodstva.
(Ural Mountains--Copper industry)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GRATSERSHTEYN, I.M.; GONCHAROV, G.A.

Time-consuming operations in nonferrous metal industries. Izv.vys. ucheb.zav.; tsvet.met. 5 no.3:159-162 '62. (MIRA 15:11)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra organizatsii proizvodstva.
(Nonferrous metal industries—Labor productivity)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GRATSERSHTEYN, Izrail' Markovich; GONCHAROV, Georgiy Aleksandrovich; DRIZE, I.D., red.; KOVALEVSKIY, M.A., red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Potentialities for increasing labor productivity in nonferrous metallurgy] Rezervy povysheniia proizvoditel'nosti truda v tsvetnoi metallurgii; na primere medeplavil'nykh predpriiatii Urala. Moskva, Metallurgizdat, 1963. 152 p. (MIRA 16:6)

(Nonferrous metal industries)

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1ST AND 2ND GROUPS

PROCESSES AND PROPERTIES INDEX

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Effect of infrared rays on microörganisms. G. D. Goncharov. *Microbiology* (U. S. S. R.) 8, 93-9 (in English, 100-1 1939).—Preliminary data. Wave-lengths of 0.8-1.2μ do not affect the morphology of yeast cells and their maltose-fermenting capacity. The formation of leucomces of irradiated *Bact. prodigiosum* is retarded at 46-7°. The shape of *Pseudomonas fluorescens liquefaciens* colonies is unaffected, but their denitrifying capacity is stimulated by irradiation. Multiplication is somewhat depressed owing to the lengthening of the cells. T. Laanes

All-Union Inst. Epidem. Med., Moscow

COMMON ELEMENTS

COMMON VARIABLES INDEX

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GTRSPL Vol. 5-No. 1 Jan. 1952

Goncharov, G.D. (All-Union Scientific Research Institute of Marine Fishery and Oceanography), Immunization of fish, 585.6

Akademiya Nauk, S.S.S.R., Doklady Vol. 78, No. 3, 1951

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GONCHAROV, G. D.

"Red Rot in Carp." Cand Biol Sci, Inst of Animal Morphology imeni A. N. Severtsov, 14 Oct 54. (VM, 30 Sep 54)

SO: Sum 432, 29 Mar 55

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

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GONCHAROV, G.D.; POPOV, M.D.; ANTIPOVA, P.S.; BISHEV, L.L.

Disease among young pike perch in the Sea of Azov in 1951-1952.
Trudy VNIRO 31 no.2:249-258 '55. (MLRA 9:8)
(Fishes--Diseases and pests)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

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ZADUBIN, Maksim Nikitich, GONCHAROV, G.D., spets.red.; KUZ'MINA, V.S., red.; SOKOLOVA, I.A., tekhn.red.

[Preventing the pollution of fishing waters by industrial sewage and other wastes] Okhrana rybokhozisistvennykh vodoemov ot zagriaznenii promyshlennymi stochnymi vodami i drugimi sbrosami. Moskva, Pishchepromizdat, 1958. 71 p. (MIRA 11:7)

(Water--Pollution)
(Fishes)
(Waste products)

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GONCHAROV, G.D.

Results achieved and future tasks in studying infectious diseases in fishes. Trudy sov.Ikht.kom. no.9:13-17 '59.
(MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii.
(Fishes--Diseases and pests)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.D.

Hemorrhagic septicemia as a virus disease of fishes in the U.S.S.R. and abroad. Trudy sov.Ikht.kom. no.9:34-38 '59. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii.
(Fishes--Diseases and pests) (Hemorrhagic diseases)

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GONCHAROV, G.D.

Elementary bodies of fish pox (epithelioma papulosum). Vop. virus. 5 no. 2:241-242 My-S '60. (MIRA 14:4)

1. Institut biologii vodokhranilishch AN SSSR, Borok.
(FISH--DISEASES) (VIRUS DISEASES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

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GONCHAROV, G.D.

Immunological reactivity in fishes. Biul. Inst. biol. vodokhran. no.12: 53-56 '62. (MIRA 16:3)

1. Institut biologii vodokhranilishch AN SSSR.
(Fishes—Physiology) (Antigens and antibodies)

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BUTORIN, N.V., kand. geogr. nauk; KURDIN, V.P., ml. nauchn. sotr.; MORDUKHAY-BOLTOVSKIY, F.D., doktor biol. nauk; BEZLER, F.I., kand. biol. nauk; IL'INA, L.K., kand. biol. nauk; GONCHAROV, G.D., doktor biol. nauk; RYABCHENKOV, N.P.; PODDUBNYY, A.G., kand. biol. nauk; MIRASHEV, G., red.

[Fishery atlas of Rybinsk Reservoir] Rybopromyslovyi atlas Rybinskogo vodokhranilishcha. IAroslavl', 1963. 20 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Institut biologii vnutrennikh vod. 2. Institut biologii vnutrennikh vod AN SSSR (for all except Mirashev, Ryabchenkov). 3. Upravlyayushchiy Rybinskogo Gosudarstvennogo tresta rybnoy promyshlennosti (for Ryabchenov).

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AKHMEDOV, A.M., prof., doktor veter. nauk; GONCHAROV, G.D., doktor biol. nauk; DURASOV, V.I.; ZAGAYEVSKIY, I.S., prof., doktor veter. nauk; KUKHARKOVA, L.L.; BARMASH, A.I., kand. tekhn. nauk; POZHARISKAYA, L.S., kand. tekhn. nauk; LAPTEV, F.P.; LIBERMAN, S.M., kand. tekhn. nauk; PETROVSKIY, V.P., inzh.; MIRONOV, A.N., prof., doktor veter. nauk; MALYSHEV, K.B., kand. veter. nauk; NIKITIN, B.P., inzh.; POLYAKOV, A.A., prof., doktor veter. nauk; RUSAKOV, V.N.; TARSHIS, M.G., kand. veter. nauk; SHUR, I.V., prof., doktor veter. nauk; YARNYKH, A.M., red.

[Manual on veterinary and sanitary expertise and hygiene in the processing of animal products] Rukovodstvo po veterinarno-sanitarnoi ekspertize i gigiene pererabotki zhivotnykh produktov. Izd.2., ispr. i dop. Moskva, Kolos, 1965. 426 p. (MIRA 18:6)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.I.

BUYANOV, Viktor Ivanovich; VOLOVIK, S.S.; GONCHAROV, G.I.; LYASHENKO, S.N.; SIDLYARENKO, V.V.; PESTRYAKOV, T.I., redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor.

[Mechanization of hemp growing] Mekhanizatsiia konoplevodstva. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1956. 290 p. (MIRA 10:6)
(Hemp) (Agricultural machinery)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, Gerasim Ivanovich; MEN'SHIKOV, N.S., dotsent, retsenzent; SAVEL'YEV, A.A., kand.tekhn.nauk, red.; VASIL'YEVA, V.P., red. izd-va; KONTOROVICH, A.I., tekhn.red.

[Making and reading drawings in machinery manufacture] Sostavlenie i chtenie chertezhei v mashinostroenii. Izd.2., perer. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 150 p. (MIRA 13:10)

(Mechanical drawing) (Machinery industry)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, Gerasim Ivanovich; YEVSEYEV, V.I., tekhn. red.

[Drawing threaded parts and joints] Vycherchivanie rez'bovykh detalei i soedinenii; uchebnoe posobie. Leningrad, Leningr. elektrotekhnicheskii in-t, 1962. 62 p. (MIRA 16:10)

(Mechanical drawing)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

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SMOLYARENKO, Daniil Abramovich; YEFANOV, Nikolay Ivanovich; MASLOVSKIY, P.M., retsenzent; BORODULIN, A.I., retsenzent; GONCHAROV, G.I., retsenzent; SPIRIN, N.I., retsenzent; KOROLEV, M.N., nauchnyy red.; ZINGER, S.L., red.izd-va; KARASEV, A.I., tekhn.red.

[Large-capacity open-hearth furnace plants] Martenovskie tsekhi s pechami bol'shoi emkosti. Izd.2., perer. i dop. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 356 p. (MIRA 13:9)

(Open-hearth furnaces--Design and construction)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

TIMONIN, M.A., kand. tekhn. nauk; SENCHENKO, G.I., kand. sel'-khoz. nauk; ARINSHTEYN, A. I., kand. sel'khoz. nauk; GORSHKOV, P.A., doktor sel'khoz. nauk; ZHUKOV, M.S., kand. sel'khoz. nauk; DEMKIN, A.P., kand. sel'khoz. nauk; KRASHENINNIKOV, N.A., kand. sel'khoz. nauk; GORODNIY, N.G., doktor sel'khoz.nauk; REPYAKH, I.I., nauchn. sotr.; PIL'NIK, V.I., kand. sel'khoz.nauk; KHANIN, M.D., kand. sel'khoz. nauk; TSELIK, V.Z., st. nauchn. sotr.[deceased]; KOZINETS, N.I., nauchn. sotr.; ZHALNINA, L.S., nauchn. sotr.; LYASHENKO, S.N., kand. sel'khoz. nauk; GONCHAROV, G.I., inzh.; BUYANOV, V.I., inzh.; RUDNIKOV, V.N., st. nauchn. sotr.; BLOKHINA, V.V., red.; PROKOF'YEVA, A.N., tekhn.red.; SOKOLOVA,N.N., tekhn.red.

[Hemp] Konoplia. Moskva, Sel'khozizdat, 1963. 462 p. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lubyanykh kul'tur (for all except Blokhina, Prokof'yeva, Sokolova). (Hemp)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

POPOV, S.N.; GOLOVANCHIKOV, A.M.; GONCHAROV, G.I.; LYSENKO, T.P.; ORLOVA, I.A., inzh., red.; VOROB'YEVA, L.V., tekhn.red.

[New transverse profiles of the ballast section] Novye poperechnye profili ballastnoi prizmy. Moskva, Transzheldorizdat, 1963. 31 p. (MIRA 17:1)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, Gerasim Ivanovich; PANCHURIN, Pavel Nikolayevich; CHIRKOVA, Antonina Nikitichna

[Composition of assembly drawings of instruments] Sostavlenie sborochnykh chertezhei priborov; uchebnoe posobie. Leningrad, Leningr. elektrotekhn. in-t, 1964. 119 p. (MIRA 18:12)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.K. (g.Kinel'); KOP'YEV, P.N. (g.Kinel')

Electromagnetic method for the treatment of feed water for stationary boiler units. Zhel.dor.transp. 42 no.6:63-64 Je '60. (MIRA 13:7)

1. Glavnyy inzhener lokomotivnogo depo Kinel' (for Goncharov).
2. Nachal'nik proizvodstvenno-tekhnicheskogo otdela depo (for Kop'yev).

(Feed-water purification)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

KRISANOV, A.F.; GONCHAROV, G.K.; FODOL'SKAYA, S.G.

Machine for cutting off the unfinished ends of shells. Metallurg 10 no.6:43 Je '65. (MIRA 18:6)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

KRISANOV, A.F.; GONCHAROV, G.K.; NEVPRYAGA, V.T.; PONOMARENKO, V.I.

Equipment for use with coupling screw-thread cutting machines.
Metallurg 10 no.7:39 Jl '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

BARABANOV, V.F.; GONCHAROV, G.N.; KRYLOVA, L.Ya.; RAFAL'SON, M.B.

Evolution of fluorite crystal-forms in the ore veins of the Bukaka deposit. Zap. Vses. min. ob-va 92 no.3:316-322 '63. (MIRA 17:9)

1. Kafedra mineralogii Leningradskogo universiteta.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

LAPITSKIY, V. I.; KONOVALOV, V. S.; KIRSANOV, V. M.; BUGRIYENKO, V. A.; Prinimali uchastiye: LEGKOSTUP, O. I.; PATLAN', Ye. F.; LAYKO, B. G.; FRUMKIN, A. P.; GONCHAROV, G. P.

Use of graphite as packing material in the bottom pouring of killed steel. Izv. vys. ucheb. zav.; chern. met. 5 no.12:56-60 '62. (MIRA 16:1)

1. Dnepropetrovskiy metallurgicheskiy institut.

(Steel ingots) (Graphite)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.P.; KRASAVIN, V.P.; BEZRUKOV, A.A.

Improving a unit for thermal cracking. Nefteper. i neftekhim. no.10:9-11 '64. (MIRA 17:12)

1. Omskiy neftepererabatyvayushchiy zavod.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

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1ST AND 2ND ORDERS — 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

13

CA

Preparation of copolymers of styrene and methyl isopropenyl ketone. B. N. Rutovskii and G. S. Goncharov. *J. Applied Chem.* (U. S. S. R.) 14, 342-50(1941).—Expts. indicated that the following are the best conditions for prepn. of isopropenyl methyl ketone. Six mols. MeEtCO and 5 mols. CH_2O were condensed at 20–30°, CH_2O and NaOH being added gradually over 2.5 hrs.; heating the mixt. to 40° started an exothermic reaction lasting 20 min.; at the end of the reaction pH was under 7; on distn. 22% of β-methyl-γ-ketobutanol, b_{10} 80–2.5°, d. 0.99, n 1.4330, was obtained. This was dehydrated by 1% of anhyd. $(CO_2H)_2$, to yield after redistn. methyl isopropenyl ketone, b_{10} 96–9°; this product was always colored, regardless of the number of distns., but could be obtained colorless by shaking with small amt. of 0.5 *N* KOH. The ketone was copolymerized with styrene in presence of 0.5% Bz_2O_2 in sealed ampoules in a complete range of compn., with and without solvents. Polymerization without solvents was effected at 65° in 35 hrs. The yield of copolymer increased with increased amt. of styrene in the initial mixt.; it was detd. by pptn. with MeOH from Me_2CO-benzene solns. The curve of viscosity *vs.* initial compn. (as well as that of copolymer) showed two max. points: 70% ketone and 10% ketone. The CO group was detd. as follows: 0.05–0.1 g. polymer in 40 cc. benzene was treated with 10 cc. EtOH soln. (0.5 *N*) of $NH_2OH.HCl$ and the equiv. amt. of 0.5 *N* KOH in EtOH, the mixt. was heated on the water bath for 3–4 hrs. under reflux and the contents were titrated with H_2SO_4 (methyl orange as outside indicator). It is necessary to use 80% EtOH as the solvent; anhyd. EtOH leads to difficulty. Under 50% ketone there is little deviation of compn. of the product from the initial proportions; this indicates true copolymerization. For polymerization in soln., 8 cc. of toluene was used per 2 g. monomer, all other conditions being the same as above. The products were pptd. by MeOH and yield and viscosity detd. In general, there was a great decrease in both yield and viscosity (i. e., mol. wt.) in this series compared to polymers formed without solvent. The viscosity-compn. curve showed several maxima, indicating possibly several types of polymers obtainable. The product with 19.65% ketone was shown to be a true copolymer by fractional pptn. Emul-

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G. S. Cand Tech Sci

Dissertation: "Investigation in the Field of Heterophased Polymerization."

11/5/50

Moscow Inst of Chemical Machine Building

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G. S.

4

Mechanism of polyphase polymerization. B. N. Rutovskii, G. S. Goncharov, and Ya. G. Muravin. *Trudy Moskov. Inst. Khim. Mashinostroeniya* 1950, No. 1 (Whole No. 9), 36–46.—Four types of polyphase polymerization are distinguished: (1) "granular," in which the monomer ($PhCH:CH_2$, methacrylates, etc.) is dispersed in water, monomer-sol. initiator is present, with or without emulsifiers, but not depending on the soly. of the monomer in the dispersing phase; (2) "suspension," no emulsifiers, H_2O-sol. initiators (persulfates); (3) "granular-suspension," no emulsifiers, initiators (org. peroxides) sol. both in H_2O and in monomer; (4) "micellar," with soap-type emulsifiers. The type can be identified by dissolving a dye (e.g., Sudan IV) in the monomer. Some data are given but no experimental details are given. J. P. Danehy

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G. S.

USSR/Metals - Metallography Sep 50

"New Method for Mounting Metallographic Specimens," N. D. Sobolev, B. N. Rutovskiy, G. S. Goncharov, K. V. Andrianova, Moscow Inst of Chem Mach Const

"Zavod Lab" Vol XVI, No 9, p 1134

Samples of metals to be studied are placed in glass vessel which is then filled out with methylmethacrylate, styrol or some other vinyl derivative with initiator preliminarily dissolved in it. Vessel must be closed and kept at temperature from 40 to 60° until polymerization process is completed and solid block os formed.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

Goncharov, G. S.

Inhibiting action of oxygen in the process of heterophase polymerization. B. N. Rutovskii and G. S. Goncharov. Appl. Chem. U.S.S.R. 26, 290 [illegible] Transl. [illegible] 48 [illegible]

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.S.

... polymerization of methyl methacrylate.
B. N. Kutovskii and G. S. Goncharov. J. Appl. Chem.
U.S.S.R. 26, 607-8 (1953) (Engl. translation). See C.A.
47, 9684.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

Goncharov, G.S.

Inhibiting action of oxygen in the process of heterophase polymerization. B. N. Rutovskii and G. S. Goncharov. *Zhur. Prikl. Khim.* 26, 426-31(1953).—The effect of air and O_2 on polymerization of methyl methacrylate at 70° was studied by using 0.8% by wt. of NH_4 persulfate. O_2 was found to be a strong inhibitor [illegible] creased [illegible] feed polymerization [illegible]

[illegible] rate is approx. equal [illegible] at the same temp. B. Z. Kamich

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

RUTOVSKIY, B.N.; GONCHAROV, G.S.

Effect of intensity of agitation on the rate of heterophase nonemulsion polymerization of methyl methacrylate. Zhur. Priklad. Khim. 26, 434-5 '53. (MIRA 6:4)
(CA 47 no.18:9664 '53)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

83412

S/191/60/000/006/004/015
B004/B054

5.3830A

AUTHORS: Goncharov, G. S., Levin, A. N., Mikhaylov, G. D., Repkin, Yu. A., Shushpanov, P. I.

TITLE: Influence of Ultrasonics on the Polymerization of Styrene in Aqueous Emulsion

PERIODICAL: Plasticheskiye massy, 1960, No. 6, pp. 8 - 10

TEXT: The authors report on experiments of accelerating the polymerization by means of ultrasonics of varying frequency. The polymerization degree was measured dilatometrically during the experiments by an apparatus which is schematically shown in Fig. 1. Ultrasonic irradiation was carried out at 28 kc/sec (intensity 3 w/cm^2), 825 kc/sec (2 w/cm^2), or 1600 kc/sec (0.3 w/cm^2). The characteristic values of the ultrasonic apparatus are given in a table. The temperature of the dilatometer was kept at 60±0.5°C. The emulsion formula was: 65 g of styrene, 1.3 g of potassium ricinoleate, 130 ml of distilled water. $K_2S_2O_8$ was used as initiator.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

83412

Influence of Ultrasonics on the Polymerization of Styrene in Aqueous Emulsion

S/191/60/000/006/004/015
B004/B054

No polymerization occurred in ultrasonic irradiation without initiator. An addition of 1% of $K_2S_2O_8$ effected a faster polymerization after 30 min of ultrasonic irradiation than without such irradiation (Fig. 2). The ultrasonic effect became mainly evident in a reduction of the inhibition period at the beginning of the process. Prolonged ultrasonic irradiation changes the course of the process only slightly (Fig. 3). Varying the $K_2S_2O_8$ addition between 0.25 and 1% effected that ultrasonics always exerted an accelerating action, and that the extent of this action became relatively larger with smaller additions of initiator (Fig. 4). Further, the authors studied the influence of ultrasonics on the degasification of water. The results (Fig. 5) led to the conclusion that the ultrasonic effect is partly due to the removal of the inhibiting oxygen dissolved in water. Under the influence of ultrasonics, the authors observed a slow decomposition of the $K_2S_2O_8$ (Fig. 6) which is, however, simulated by the formation of peroxides. These peroxides may also contribute to an accelerated polymerization. There are 6 figures, 1 table, and 5 references: 2 Soviet, 1 US, and 2 German.

Card 2/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

S/191/60/000/007/004/015
B004/B056

15.8104

AUTHORS: Goncharov, G. S., Levin, A. N., Mikhaylov, G. D., Repkin, Yu. A., Shushpanov, P. I.

TITLE: Polymerization by the Action of Ultrasonics on Aqueous Emulsions of Styrene Containing Polystyrene

PERIODICAL: Plasticheskiye massy, 1960, No. 7, pp. 15 - 16

TEXT: The authors give a report on the polymerization of aqueous styrene emulsions carried out by means of an ultrasonic generator at 28 kc/sec (3 w/cm^2), 825 kc/sec (2 w/cm^2), and 1600 kc/sec (0.3 w/cm^3). The polymerization kinetics was dilatometrically determined. Control experiments (Table) showed that 1) ultrasonic irradiation of styrene emulsions without polystyrene and initiators does not lead to polymerization; 2) an emulsion containing 0.5% of polystyrene dissolved in styrene did not polymerize without ultrasonic irradiation. As soon as this emulsion was, however, acoustically irradiated, polymerization set in (Fig. 1):

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

85141

Polymerization by the Action of Ultrasonics on Aqueous Emulsions of Styrene Containing Polystyrene

S/191/60/000/007/004/015
B004/B056

This confirms the mechano-chemical character of this process. Addition of potassium persulfate as initiator to the styrene-polystyrene system decreased the polymerization rate (Fig. 2). The authors mention a paper by A. A. Berlin and B. S. El'tsefon. There are 2 figures, 1 table, and 1 Soviet reference.

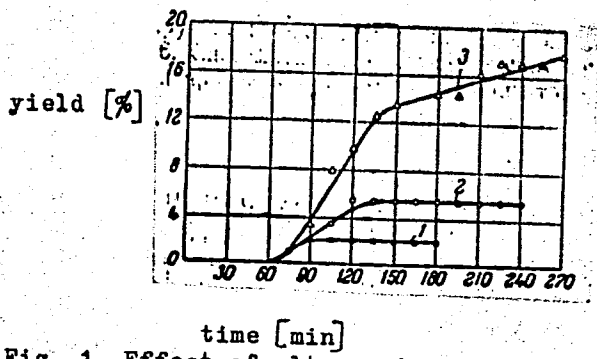

Fig. 1. Effect of ultrasonics upon the styrene-polystyrene system (1 - 825 kc/sec; 2 - 1600 kc/sec; 3 - 28 kc/sec)

Card 2/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

36200
S/191/62/000/004/013/017
B110/B138

15.8090

AUTHORS: Goncharov, G. S., Levin. A. N., Ryvkin, G. A.

TITLE: Absorption method of drying formaldehyde

PERIODICAL: Plasticheskiye massy, no. 4, 1962, 50-52

TEXT: The selective water absorption of some organic solvents was used to dry formaldehyde. Hydrocarbons with limited miscible with water (benzene, toluene, carbon tetrachloride, etc.) have greater water absorption at higher temperature. About 80°C is the optimum for toluene, owing to the relatively low vapor pressure and high water solubility (~0.3 %). Monomer formaldehyde was passed continuously through a Raschig ring-packed absorption tower with carefully dried toluene as absorbent. No traces of polymers appeared after 10 hrs. The thermal stability of the polymer obtained is the criterion of the quality of drying. α-polyoxy methylene was vaporized in the destructor (1, Fig. 2) at 180°C. The gas-vapor mixture bubbles continuously through dried toluene at 80°C, and reaches the reaction vessel (7) via 3, 4, 5, and 6 for polymerization. The reaction medium was anhydrous toluene or gasoline. The initiator was 0.025 % (by

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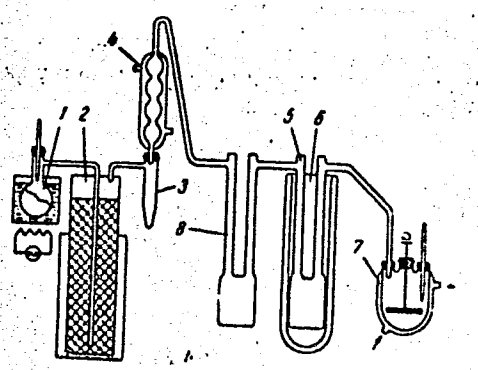
weight of the reaction medium) calcium stearate. No polymer was separated in cooler and separator. The good thermal stability and homogeneity of the polyformaldehyde obtained show that the continuous method is to be recommended. There are 6 figures.

Fig. 2.
Diagram of system for drying formaldehyde.



Legend: (1) destructor, (2) absorption column, (3) trap, (4) contra-flow cooler, (5) cooler, (6) Dewar flask, (7) reaction vessel, (8) demister.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

S/191/63/000/002/015/019
B101/B186

AUTHORS: Goncharov, G. S., Levin, A. N., Ryvkin, G. A.

TITLE: Catalytic effect of some substances on the thermal degradation of α-polyoxymethylene

PERIODICAL: Plasticheskiye massy, no. 2, 1963, 62-63

TEXT: It was attempted to accelerate and improve the production of pure formaldehyde by thermal degradation of α-polyoxymethylene. The effect of P_2O_5, $(C_6H_5)_2NH$, and $CaCl_2$ on the rate of forming formaldehyde gas from α-polyoxymethylene was measured at various temperatures. 0.5% P_2O_5 greatly accelerated degradation. In its presence, degradation was a linear function of time. With P_2O_5, the degradation temperature could be reduced from 180-200 to 140-150°C, thus preventing the formation of crust. Further, the P_2O_5 dried the formaldehyde. Diphenyl amine and calcium chloride also accelerated the degradation, partial polymerization of the formaldehyde caused a deviation from linearity. There are 4 figures.

Card 1/1

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.S.

Manifestation of complex-metal mineralization in the Estonian S.S.R. Sov. geol. 7 no.7:127-132 Jl '64. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.S.; TYASTO, A.S.; SHATROV, B.D.; NIKOPONIRA, L.S.

Prospecting for deep sulfide mineralization using geophysical methods. Razved. i okh. nedr 30 no.4:51-53 Ap '64.

(MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki Gosudarstvennogo geologicheskogo komiteta SSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, G.V.

Work practices of a collective farm. Ptitsevodstvo 8 no.5:37 My '58. (MIRA 11:5)

1. Direktor Azovskoy inkubatorno-ptitsevodcheskoy stantsii, Rostovskoy oblasti.

(Ducks)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.

Device for increasing temporary tractive force of trucks. Avt. transp.33 no.9:33 S'55. (MLRA 8:12)
(Motor trucks--Apparatus and supplies)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

SOV/84-58-5-44/57

AUTHOR: Goncharov, I.

TITLE: One Million Kilometers On Local Air Routes (Million Kilometrov na mestnykh vozdushnykh liniyakh)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 5, p 35 (USSR)

ABSTRACT: A short report on Arkadiy Petrovich Kharlov, a pilot of an An-2 plane of the unit under Vasil'yev in Tomsk Oblast, who completed one million flight kilometers on various local assignments.

1. Pilots--Performance

Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

KAPICH, Nikolay Fedorovich; GONCHAROV, I. [Hancharou, I.], red.; SLAVYANIN, I., tekhn. red.

[V.I.Lenin on active participation of the masses in the buildings of communism] U.I.Lenin ab tvorchai aktyunastsi mas u budaunitstve kamunizma. Minsk, Dziarzh. vyd-vo BSSR, Red. satsyial'na ekan. lit-ry, 1960. 38 p. (MIRA 14:10)

(Lenin, Vladimir Il'ich, 1870-1924)
(Efficiency, Industrial)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

PASHKEVICH, Oleg Nikolayevich; GONCHAROV, I., red.; DOMOVSKAYA, G., tekhn. red.

[Ways to improve the utilization of the production funds of an enterprise] Puti luchshego ispol'zovaniia proizvodstvennykh fondov predpriiatii. Minsk, Gos.izd-vo BSSR. Red. sotsial'no-ekon.lit-ry, 1961. 34 p. (Dlia slushatelei nachal'nykh ekonomicheskikh shkol i kruzhkov na promyshlennykh predpriiatiiakh, no.3) (MIRA 15:8)
(Capital)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I. A.

GONCHAROV, I. A. -- "Investigation of the Turning of a Caterpillar-Type Tractor." Min Higher Education USSR. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 1, 1956, pp 102-122, 124

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.A., kand.tekhn.nauk

Turning caterpillar tractors. Trakt.i sel'khozmash. no.8: 11-13 Ag '59. (MIRA 12:11)
(Tractors)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

KARP, S.F.; KOBEZA, I.I.; MIKHAYLOV, G.I.; GONCHAROV, I.A.

Behavior of sulfur during open-hearth furnace operations on natural gas with self-carburation. Stal' 20 no. 12:1075-1078 D '60. (MIRA 13:12)

1. Institut chernoy metallurgii AN USSR i zavod "Zaporozhstal'."
(Open-hearth furnaces--Equipment and supplies)
(Desulfuration)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GRIGOR'YEV, V.P.; LUZGIN, V.P.; ABROSIMOV, Ye.V.; ORLOV, V.I.; YAVOYSKIY, V.I.; GURSKIY, G.L.; GONCHAROV, I.A.; STARKOV, P.A.

Materials balance in the scrap metal-iron ore process. Izv. vys. ucheb. zav.; chern. met. 5 no.5:63-67 '62. (MIRA 15:6)

1. Moskovskiy institut stali zavod "Zaporozhstal'".
(Steel—Metallurgy)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

S/133/62/000/007/003/014
A054/A127

AUTHORS: ~~Goncharov, I.A.;~~ Yem, A.P.; Konovalov, V.S.; Lapitskiy, V.I.; Marakhovskiy, I.S.; Filonov, V.A.; Khitrik, S.I.; Yaitskiy, A.K.

TITLE: Determination of the optimum composition of silico-chromane and its application in alloying 14 ХГС (14KhGS) grade steel

PERIODICAL: Stal', no. 7, 1962, 615 - 616

TEXT: Tests were carried out (with the cooperation of A.S. Rabinovich, G.T. Duzenko, N.V. Pal'chik, M.I. Vaynshtok, P.L. Konstantinov, et al.) on the application of silicochromane (with 15 - 18% Si, 25 - 40% Mn and 25 - 35% Cr) in alloying 14KhGS grade steel. (The application of this ternary alloy was proposed by V.F. Mazov, I.S. Marakhovskiy, I.M. Leykin, A.A. Khomutov, A.A. Podgorodetskiy.) Silicochromane for the tests was produced from ferromanganese, ferrochrome, ferrosilicon, etc.; the test steel was smelted in a 10-kg induction furnace and in 15-ton and 220-ton open-hearth furnaces. Besides testing ferrochromane with various percentages of the main components, the investigations also covered the possibility of adding this alloy to the steel without its previous

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reduction. When ferrochromane was added to the bath without previous reduction, the burning out of manganese was 35%, that of silicon 80 - 85%, while, when it was added to the reduced bath the corresponding values were not more than 4 - 5 and 45 - 50%. The burning loss of chrome is not greatly affected by the degree of bath-reduction. By reference to laboratory tests, silicochromane with 32 - 34% Mn, 35 - 36% Si and 18 - 19% Cr was used in the pilot plant tests with a 15-ton open-hearth furnace. In these tests silicochromane replaced silicomanganese in preliminary reduction and ferrochrome + ferromanganese in alloying. The burning loss of manganese was 5 - 7%, that of silicon 50 - 55% and of chrome 16 - 18% in this test series. When 50% of silicochromane was added in the furnace and 50% in the ladle, the losses of silicon were decreased to 42% and the total amount of the alloy required for reduction and alloying dropped by 10%. The loss of manganese increased to 15%, while the burning loss of chrome remained unchanged (15%). Similar results were obtained for the 220-ton furnace. The optimum composition for silicochrome was found to be 35 - 38% Mn, 32 - 35% Si and 21 - 23% Cr. The distribution of the main elements in the height of the ladle was more uniform than with reduction according to the conventional methods. The amount of gases also decreased when silicochromane was used. As to nonmetallic inclu-

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

sions the metal reduced by silicochromane showed silicate inclusions mainly in the skin of the ingot bottom, evidently because they could not float due to the lower liquidity of the metal caused by the addition of great amounts of ferro-alloys in the ladle. This, however, can be corrected by using exothermic ferro-alloys. There is 1 figure.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

TSIRLIN, B.M., inzh.; GONCHAROV, I.A., inzh.; KOVAL'CHUK, Ye.I., inzh.

Use of graphite-grog and graphite paddings and inserts for the casting of killed steel. Stal' 22 no.4:315-316 Ap '62. (MIRA 15:5)

1. Metallurgicheskiy zavod "Zaporozhstal'".
(Steel ingots) (Refractory materials)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

S/133/63/000/001/001/011
A054/A126

AUTHORS: Gol'dfarb, E. M., Goncharov, I. A., Sabel'nikov, A. G., Soroko, L. N., Tayts, N. Yu., Faynshteyn, I. G., Filonov, V. A. (Deceased), Yaitskiy, A. K.

TITLE: Investigation of the solidification of large rectangular-section ingots

PERIODICAL: Stal', no. 1, 1963, 22 - 25

TEXT: The heavy ingots used at the zavod "Zaporozhstal'" ("Zaporozhstal'" Plant) have a prismatic shape with various ratios of the side-dimensions. The solidification rates of such ingots have not yet been studied sufficiently. Tests were carried out to prove the accuracy of a new calculation method for this purpose, based on the geometrical addition of the solidification rates in various directions in these ingots. The width of the test ingots varied between 1,082 and 1,580 mm, their thickness between 610 and 750 mm and their height was 2,200 and 2,400 mm. Several measuring methods were used. In some tests the temperature was measured at the ingot-mold wall section by inserting chrome-nickel-aluminum

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thermocouples in three holes with a 60-mm diamter, at various heights. The thermocouples had special cases ensuring a reliable contact between the thermocouple soldering and the ingot-mold wall surface at distances of 30÷120 and 210 mm from the inner surface. The temperature of the solidifying metal was also measured directly by a platinum-platinorhodium thermocouple, moreover, by a very simple sounding method by means of 10 to 12-mm diameter steel rods, pushed down to the solidifying layer of the ingot, hereby determining its depth. From the test results equations were established for calculating the temperature field and the internal and external wall temperatures of the ingot mold, the heat flow in the ingot-mold wall, the radiation coefficient for the gap between ingot-mold wall and ingot and, once these data were obtained, the ingot surface temperature could be calculated for any moment. There is a difference in the solidification rates of killed and rimming steel ingots, as the presence of gas bubbles in the latter decreases their specific weight from about 7,500 to 7,000 kg/m^3, which, in turn accelerates their solidification rate by about 7% as compared to that of killed steel. The tests also showed that the solidification of killed steel ingots is practically completed in the time between the end of pouring and the moment they are set in the soaking pit, whereas for rimming steel ingots the time allowed

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for cooling is 40 minutes shorter than required for their total solidification. The rimming steel ingots are, therefore, now being kept in the pits a longer time to prevent the roll shops from being supplied with ingots which are not fully solidified. There are 3 figures and 1 table.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut i zavod "Zaporozhstal'" (Dnepropetrovsk Metallurgical Institute and "Zaporozhstal'" Plant)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

LEYKIN, I.M.; LEBEDEV, Yu.I.; ANDREYEV, I.I.; BEDA, N.N.; Prinimali uchastiye: LIVSHITS, G.L.; TERENT'YEVA, Ya.K.; FILONOV, V.G.; GONCHAROV, I.A.; NAFTALOVICH, S.M.; KUPRIKOV, P.Z.; ABKINA, R.I.; ROSHCHINA, A.A.; LUPYAKOV, A.G.

Steel of the 18G2-grade. Sbor. trud TSNIICHM no.35:92-101 '63. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

DROZDOV, N.N.; SIMONOV, V.I.; GONCHAROV, I.A.; FILIPPOV, S.I.

Kinetic principles of the control and automation of the steel decarburization process during the period of the oxygen blowing of the metal. Izv. vys. ucheb. zav.; chern. met. 7 no.3:16-22 '64. (MIRA 17:4)

1. Moskovskiy institut stali i splavov.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.A.; FILIPPOV, S.I.

Mechanism of surface and volume decarburization of molten iron. Izv. vys. ucheb. zav.; chern.met. 8 no.1:10-16 '65 (MIRA 18:1)

1. Moskovskiy institut stali i splavov.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.D.; NIKOLAYEV, V.I.

[redacted]

Apparatus for treating adducent contractures in children. Ortop., travm. i protez. 18 no.1:60-61 Ja-F '57. (MIRA 10:6)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo detskogo ortopedicheskogo instituta im. G.I.Turnera (dir. - prof. M.N.Goncharova)
(ORTHOPEDIC APPARATUS)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.F.

Socialist competition among students in agricultural work. Biol. v shkole no.5:60-65 S-O '57. (MLRA 10:9)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.
(Leningrad--Agriculture--Study and teaching)
(Socialist competition)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, Ivan Gerasimovich, inzh. [deceased]; YEVDOKIMOV, P.D., kand.tekhn.nauk, red.; KAPLAN, M.Ya., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Strength of masonry materials under various stresses] Prochnost' kamennykh materialov v usloviiakh razlichnykh napriazhennykh sostoianii. Pod red. P.D.Evdokimova. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 122 p. (MIRA 13:5)

1. Laboratoriya mekhaniki gruntov Vsesoyuznogo nauchno-issledovatel'skogo instituta gidrotekhniki im. B.Ye.Vedeneyeva (for Goncharov).
(Strains and stresses)
(Building materials--Testing)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

AUTHOR: Goncharov, I.G. SOV/130-58-7-28/35

TITLE: 24 Years on a Blooming Mill (24 goda na blyuminge)

PERIODICAL: Metallurg, 1958, nr 7, pp 40 - 41 (USSR).

ABSTRACT: The author, who has been at nr 2 blooming mill of the Magnitogorsk Metllurgical Combine, states that the mill has doubled its production rate since 1940 through decreases in the number of passes and increases in the reduction; in 1950, a reduction in the number of passes was made because of the installation of two new stands in the 630-mill. In 1953, two intermediate stands were installed in the blooming mill, giving a 20% productivity increase. He gives the production in the first three months of this year as 103.4, 103.6 and 103.5% of the planned values and names the following as having contributed to these successes: D.V.Yudayev, A.L. Yefanov, S.D. Dubrovskiy, A.S.Khabarov, S.Gizyatov. There is 1 figure.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)

Card 1/1 1. Blooming mills--USSR

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.G., kand.tekhn.nauk

Using multiple-purpose tractor engine regulators in intertillage. Mekh. i elek. sots. sel'khoz. 19 no.2:22-25 '61. (MIRA 14:3)

1. Belorusskiy institut mekhanizatsii sel'skogo khozyaystva.
(Tractors--Engines)
(Governors(Machinery))

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Physics Institute/

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

L 07397-67

ACC NR: AP6018904 (N) SOURCE CODE: UR/0375/66/000/002/0065/0067

28

AUTHOR: Itenberg, S. I. (Candidate of technical sciences); Goncharov, I. I. (Engineer; Commander)

27

B

ORG: none

TITLE: Effect of drift on the work of hydrodynamic logs

SOURCE: Morskoy sbornik, no. 2, 1966, 65-67

TOPIC TAGS: ship navigation, hydrodynamic bearing, error correction

ABSTRACT: In this article the authors derive a formula for calculating the correction for the hydrodynamic error of a nautical log in the presence of drift:

$$\Delta l_\alpha = \Delta l + K_\alpha \qquad (1)$$

where Δl is the log correction determined during its calibration in the absence of drift; K is a constant coefficient equal to the change of the log correction by one degree of drift; and α is the angle of drift. The formula for calculating the true distance covered by a ship from the log readings when sailing with drift can be derived from Eq. (1). It has the form

$$S = S_1 \left(K_1 + \frac{K}{100}\alpha\right) \qquad (2)$$

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ACC NR: AP6018904

where K_1 is the coefficient of the log ($K_1 = 1 + \frac{1}{100}$). It is pointed out in conclusion that the complexity and awkwardness of the method does not permit the authors to recommend it to navigators for use in practical work. At present, prior to developing a simpler method, the coefficient K can be determined only on one ship of a given design and then it can be used on all ships. Orig. art. has: 3 formulas and 3 figures.

SUB CODE: 13,17 SUBM DATE: none

Card 2/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

CHESNOKOV, N.P.; GONCHAROV, I.K.

Vertical core prints. Lit. proizv. no.2:41 F '63. (MIRA 16:3)
(Coremaking)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.M.

Forty-six rail anchors a minute. Put' i put. khoz. no.2:13-15 F '57.
(Railroads--Rails--Fastenings) (MLRA 10:4)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

AUTHOR: Goncharov, I.M., Fudim, L.I., Ladyshenskaya, F.M. and Ryabchikova, O.A., Engineers. 133-5-21/27

TITLE: Phosphatising and glazing of wire before drawing. (Fosfatirovaniye i ostekleniye provolki pered volocheniyem.)

PERIODICAL: "Stal'" (Steel), 1957, pp. 464-465 No. 5, (U.S.S.R.)

ABSTRACT: Methods of phosphatising and glazing wire before drawing developed in the Magnitogorsk works (Magnitogorskiy Zavod) on the basis of experience of the Molotov Works in Leningrad (LeningradskiyZavod im.Molotova) are described.

ASSOCIATION: Magnitogorsk Calibration Works (Magnitogorskiy Kalibrovochnyy Zavod)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I. N.

Goncharov, I. N. - "The question of decreasing the loss of ore dust from blast furnaces," Trudy Novocherkas. politekhn. in-ta im. Ordzhonikidze, Vol. XX, 1948, p. 3-21

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I. N.

122-2-19/23

AUTHOR: Goncharov, I.N., Candidate of Technical Sciences, Lecturer, and Semchenko, D.P., Doctor of Technical Sciences, Professor.

TITLE: On the efficient utilization of steel swarf in the engineering industry (O ratsional'nom ispolzovanii stal'noy struzhki v mashinostroitel'noy promyshlennosti)

PERIODICAL: "Vestnik Mashinostroyeniya" (Engineering Journal), 1957, No.2, pp. 80 - 84 (U.S.S.R.)

ABSTRACT: Three million tons of steel swarf and a similar quantity of cast iron swarf is a by-product of the Soviet metal industry. Its utilisation is highly inefficient owing to its large volume. Existing methods of utilisation include crushing, briquetting with or without binders, high pressure compacting and various combined compacting and heating installations. A process of forge welding of swarf has been accomplished under laboratory conditions. Steel forgings of up to 40 kg weight were obtained in a single drop (1 200 kg hammer) after heating of oxydised cold steel swarf to a temperature of 1 100 C. Full metal density was reached and the forgings can be used as scrap or as an engineering material. The heating took 8 min. in a solid fuel forging furnace, 6% was burnt off. High carbon and alloy steels were also successfully treated. The original steel composition containing 0.23% C, 0.94% Mn, 0.19% Si,

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On the efficient utilization of steel swarf in the engineering industry. (Cont.) 122-2-19/23

0.06% S, 0.057% P, was changed mainly by the reduction of the carbon content to 0.15%, the virtual disappearance of the silicon content and small reductions in the sulphur and P contents. The forge welded material has a much closer grain structure than the original material. The tensile strength is reduced from 43.1 to 39.6 kg/mm^2, but the elongation is increased from 28.4 to 30.7% and the impact value from 9.3 to 18.5 kg/cm^2. Approximate costing on the basis of an installation for 5 tons per hour output shows an expenditure of 40 Roubles per ton.

Card 2/2 There are 3 photographs, 2 tables and 2 Slavic references.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

SOV/122-58-6-17/37

AUTHORS: Goncharov, I.N., Candidate of Technical Sciences, Docent, Azarov, I.A. and Dorofeyev, Yu.G., Engineers

TITLE: Economic Utilisation of Metal Swarf (Ratsional'noye ispol'zovaniye metallicheskoy struzhki)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 6, pp 46-49 (USSR)

ABSTRACT: The use of briquetted swarf as a charge for metal-melting furnaces is the most economic utilisation. Briquetting on the premises is worth while when 10 tons/day of swarf or more are available. Compacting presses to achieve a density of 2 kg/litre cannot produce a form suitable for melting economically. Hot pressing and stamping to a density exceeding 5 kg/litre produces briquettes suitable for open-hearth furnaces as well as electric furnaces and cupolas. An installation as developed at the Novo-Cherkasskiy politekhnicheskiy institut (Novocherkassk Polytechnical Institute)"imeni S. Ordzhonikidze" and finally constructed at the Bataysk Metallurgical Plant is illustrated in lay-out. It consists of loading, storage and transport facilities to pass the swarf through a rotary furnace and to compact it hot under the briquetting hammer. The swarf is heated to about 900 °C and emerges from the furnace as a continuous "rope" cut into sections

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

Economic Utilisation of Metal Swarf SOV/122-58-6-17/37

by a rotating friction disc saw. Other installations for hot briquetting (but using shaft furnaces) have been projected for use at the Taganrog Metallurgical Plant. Compacting into usable steel by forge welding producing a structure characteristic of oriental sword-making is briefly mentioned. High-speed steel swarf can be briquetted and forged into cutting tools of unimpaired performance. It is stated that a plant producing 5 t/h can earn 5 million roubles/annum.
There are 4 figures.

Card 2/2 1. Steel--Processing 2. Steel--Production

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.N., kand.tekhn.nauk; STROYEVA, K.M., kand.tekhn.nauk

Structure of steel made of cuttings. Metalloved. i term. obr. met. no.6:48-49 Je '61. (MIRA 14:6)

1. Novocherkasskiy politekhnicheskiy institut.
(Steel—Metallography)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

Goncharov, L. N.

PHASE I BOOK EXPLOITATION SOV/4199

Leningrad. Politekhnicheskiy institut

Sovremennyye dostizheniya liteynogo proizvodstva; trudy mezhvuzovskoy nauchno-tekhnicheskoy konferentsii (Recent Achievements in Founding: Transactions of the Scientific and Technical Conference of Schools of Higher Education) Moscow, Mashgiz, 1960. 336 p. Errata slip inserted. 4,000 copies printed.

Resp. Ed.: Yu. A. Nekhendzi, Doctor of Technical Sciences, Professor; Eds.: N. G. Girshovich, Doctor of Technical Sciences, Professor, and K. P. Lebedev, Docent; Managing Ed. for Literature on Heavy Machine Building (Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer; Tech. Eds.: Ye. A. Dlugokanskaya, and L. V. Shchetinina.

PURPOSE: This book is intended for the technical personnel of foundries. It may be used by students of the field.

COVERAGE: This collection of articles discusses problems in founding processes. Individual articles treat the melting of metals and their alloys, mechanization and automation of casting processes, aspects of the manufacture of steel, cast iron, and nonferrous metal castings. No personalities are mentioned. References accompany individual articles.

Recent Achievements in Founding (Cont.) SOV/4199

18. Mariyenbakh, L. M. Investigation of New Types of Fuel for Cupolas 148

19. Goftman, M. V., and P. Ya. Nefedov. New Methods of Producing Cupola Coke 154

20. Goncharov, L. N. Utilization of the Steel and Cast Iron Chips in the Industry 159

21. Gruzin, V. G. Temperature Regime of the Pouring (at Casting) of Hydroturbine Blades 165

22. Bilyk, V. Ya. Laboratory Methods of Measuring the Temperature of Molten Metals 169

IV. PROBLEMS OF MOLD MAKING

23. Berg, P. P. Dimensional Accuracy of Castings 178

24. Obolentsev, F. D. Generation of Adhesion Forces Between the Nonmetallic Layer (Pick-Up) and the Casting 183

Card 5/9

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

33161
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E194/E485

24.5600

AUTHORS: Goncharov, I.N., Gromova, I.I., Neganov, B.S., Parfenov, L.B.

TITLE: An electromagnet with super conducting winding

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1961, 142-143

TEXT: The magnet described was required to control the "thermal keys" in a cyclic refrigerator equipment used to produce extremely low temperatures by the adiabatic demagnetization of a paramagnetic salt. The coil was made of lead, which has a critical field of about 500 oersteds at a temperature of 4.2°K and 800 oersteds at 1.5°K, the critical current for the wire of section 0.5 x 1.5 mm was not less than 10 A at 4.2°K. The turns were insulated with capacitor paper treated with adhesive grade БФ-2 (BF-2). For convenience of accommodating the "thermal key" between the poles, the magnet was made cylindrical, the pole diameter was 8 mm and the pole tip diameter 14 mm, the gap length was 3.2 mm. For example, with 700 turns the field strength at which super-conductivity broke down to give a p.d. of 0.05 mV was 2800 oersteds at 1.5°K with a critical current of 1.2 A. As the

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An electromagnet with super ...

current is required to flow for several hours, heat evolved in the connections is troublesome and so a circuit was devised to maintain the gap field constant with supply disconnected. The coil was shorted by turns of lead, wound on a metal core in contact with liquid helium, on which a heating coil was also wound. Until the heater was switched on, the lead turns were superconducting and current continued to flow through the magnet coil even with supply switched off. If it is required to connect the supply, it is first switched on then, as the heater current is increased, the lead coil becomes progressively less super-conducting and supply voltage is applied to the magnet coil. Acknowledgments are expressed to V.M.Drobin for assistance. There are 3 figures and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The two references to English language publications read as follows:
Ref.1: S.H.Autler, Rev. Scient. Instrum. v.31, 1960, 369;
Ref.2: D.R.Young, Progress in Cryogenics, v.1, 1959, 3.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Research)

SUBMITTED: April 3, 1961

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, Ivan Nikolayevich, nauchnyy sotr.; DOROFEYEV, Yuriy Grigor'yevich, nauchnyy sotr.; MATVEYEV, Vladimir Panteleyevich, nauchnyy sotr.; POPOV, Stepan Nikolayevich, nauchnyy sotr.; PINCHUK, A.P., red.; IVANOVA, R.N., tekhn. red.

[New method for the processing of metal chips] Novyi metod pererabotki metallicheskoi struzhki. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1962. 33 p. (MIRA 15:6)

1. Novocherkasskiy politekhnicheskiy institut (for Goncharov, Dorofeyev, Matveyev, Popov).
(Scrap metal industry)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

MYLKO, Sergey Nesterovich, kand. tekhn. nauk; GONCHAROV, Ivan Nikolayevich, kand. tekhn. nauk; TARASENKO, Ivan Ivanovich, inzh.; KIMLAT, Zyunya Aronovich, inzh.; INDUTNYY, Yevgeniy Vasil'yevich, inzh.; DOROFEYEV, Yuriy Grigor'yevich, kand. tekhn. nauk; CHUKMASOV, S.F., doktor tekhn.nauk, retsenzent; KUDELYA, F.Ya., inzh., retsenzent; TANCHAROVA, V.F., red.izd-va; MATUSEVICH, S.M., tekhn. red.

[Uses for scrap metal] Ispol'zovanie metallicheskoi struzhki. Kiev, Gostekhizdat USSR, 1963. 142 p. (MIRA 16:12)
(Scrap metals)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

GONCHAROV, I.N.; DOROFEYEV, Yu.G.; ZHERDITSKIY, N.T.

Hot hammer briquetting of copper base alloy chips. TSvet. met. 36 no.1:66-72 Ja '63. (MIRA 16:5)
(Copper alloys) (Scrap metals)

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L 50555-65 EWT(1)/EWT(m)/EPF(n)-2/T/EWP(t)/EWP(b)/EWA(c) Pu-4 IJP(c) JD/

ACCESSION

Ivenkov, J. F.; Goncharov, I. N.; Kuzmin, V. [illegible]; Litovsky, M.; Khukhareva,

Superconducting properties of Nb-Zr alloys

Conference on Low Temperature Physics [illegible]

TOPIC TAGS: niobium alloy, zirconium alloy, superconductivity, heat treatment effect

ABSTRACT: The authors report the results of studies of Nb-Zr alloys with Zr con-

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ACCESSION NR: AT5009436

maximum at 10--30% Zr. Heat treatment causes an increase in the critical current density as a result of a change in the cubic body-centered structure of the solid

ENCL: 00

SUB CODE: MM, TD

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516010008-0

ACCESSION NR: AP4041044 S/0120/64/000/003/0170/0171

AUTHOR: By*chkov, Yu. F.; Goncharov, I. N.; Kuz'min, V. I.; Khukhareva, I. S.

TITLE: Effect of heat treatment on the properties of superconductive zirconium-niobium alloys

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ABSTRACT: The effect of heat treatment on the critical temperature (T_K) and critical current density (J_K) of niobium-zirconium alloys containing 65—80% Zr was investigated. The alloy specimens were melted from iodide zirconium and electron beam refined niobium in an arc furnace in an argon atmosphere. After rolling from 5 to 1 min, the specimens were annealed and rolled to 0.03—0.04 mm. The critical current density was measured at 4.2K in a magnetic field parallel to the rolling plane and perpendicular to the current direction. The

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dependance of T_K and j_K on annealing temperature in the 27-oe field is shown in Fig. 1 of the Enclosure. An increase in j_K after annealing at 400—500C was caused by a change in the structure of the β-phase or precipitation of the metastable ω-phase. The x-ray diffraction patterns revealed three phases on the specimen surface: an initial β-phase with 80% Zr, α-Zr, and a small quantity of β-phase with 15% Zr. At a depth of 0.05 mm, the α-phase and Nb β-phase with 15% Zr disappeared. Thus in the formation of new phases, an initial stage of recrystallization occurs only in a thin surface layer. Prolonged annealing at 570C raises the T_K, but lowers the j_K (see Fig. 2). Orig. art. has: 2 figures.

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