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DANIL'CHENKO, A.N.

PHASE I BOOK EXPLOITATION SOV/5559

Akademiya nauk SSSR. Institut metallurgii. Nauchnyy sovet po problema zharoprochnykh splavov

Issledovaniya po zharoprochnym splavam, t. 5 (Investigations of Heat-Resistant Alloys, Vol 5) Moscow, Izd-vo AN SSSR, 1959. 423 p. Errata slip inserted. 2,000 copies printed.

Ed. of Publishing House: V.A. Klimov; Tech. Ed.: I.F. Kuz'mina. Editorial Board: I.P. Bardin, Academician, G.V. Kurdyumov, Academician, S.V. Ageyev, Corresponding Member, USSR Academy of Sciences (Resp. Ed.), I.A. Oding, I.N. Pavlov, and I.F. Zudin, Candidate of Technical Sciences.

PURPOSE: This book is intended for metallurgical engineers, research workers in metallurgy, and may also be of interest to students of advanced courses in metallurgy.

COVERAGE: This book, consisting of a number of papers, deals with the properties of heat-resisting metals and alloys. Each of the papers is devoted to the study of the factors which affect the properties and behavior of metals. The effects of various elements such as Cr, Mo, and W on the heat-resisting properties of various alloys are studied. Deformability and workability of certain metals as related to the thermal conditions are the object of another study described. The problems of hydrogen embrittlement, diffusion and the deposition of ceramic coatings on metal surfaces by means of electrophoresis are examined. One paper describes the apparatus and methods used for growing monocrystals of metals. Boron-base metals are critically examined and evaluated. Results are given of studies of interatomic bonds and the behavior of atoms in metal. Tests of turbine and compressor blades are described. No personalities are mentioned. References accompany most of the articles.

Sevitskiy, V.G., and K.V. Popov. Study of Certain Problems of the Temperature Dependence of the Plasticity of Steel From the Viewpoint of the Dislocation Theory 130

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[illegible] Alloys [illegible]

[illegible] and A.N. [illegible] [illegible] Alloys [illegible]

[illegible] Forging of Hard-to-Form Alloys [illegible]

[illegible], and A.N. Danil'chenko. Specific Deformation Work per Unit of Volume, for Certain Alloys [illegible]

[illegible], and A.M. Zasarin. Mechanical Properties of Deformed [illegible] [illegible]

[illegible] Mechanical Regime of Forging High Melting Metals and Heat-Resistant Alloys [illegible]

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DANIL'CHENKO, A.N.

Akademiya nauk SSSR. Institut nauchno-tekhnicheskoy informatsii

Metallurgiya i metallovedeniye; khimiya, metallovedeniye i obrabotka titana (Metallurgy and Metallography; Chemistry, Metallography, and Treatment of Titanium) Moscow, Izd-vo AN SSSR, 1959. 383 p. (Series: Itogi nauki; tekhnicheskiye nauki, 2) Errata slip inserted. 2,700 copies printed.

Ed.: N. V. Ageyev, Corresponding Member, Academy of Sciences, USSR; Ed. of Publishing House: V. S. Rzheznikov; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This collection of articles is intended for metallurgists working with titanium and titanium alloys.

COVERAGE: The articles in this collection deal with the chemistry, metallurgy, and machining of titanium and titanium alloys. The articles are based on abstracts appearing in the Referativnyy zhurnal for chemistry and metallurgy, from 1953 to 1955. For the most part the articles are based on non-Soviet material. No personalities are mentioned. References follow each article.

Savitskiy, Ye. M., and M. A. Tylkina. Properties of Titanium and Titanium Alloys 103

This is a survey of the physical and mechanical properties of titanium and titanium alloys. Data are given on the effect of oxygen, nitrogen, hydrogen, and carbon on the mechanical properties of titanium.

Gudtsov, N. T., and L. D. Mashtakova. Heat Treatment of Titanium and Titanium Alloys 163

The authors discuss work hardening, annealing, grain refining, and other heat-treating methods for titanium and titanium alloys. Also discussed are the effect of alloying elements on heat-treating characteristics, mechanical properties after heat treating, and structural changes at heat treating.

Arzhanyy, P. M. Thermochemical Treatment [Diffusion Coating] of Titanium 187

This article deals with the nitriding, boronizing, and siliconizing of titanium.

Shelest, A. Ye., A. N. Danil'chenko, and I. M. Pavlov. Forming of Titanium and Titanium Alloys 195

The authors discuss the special features of plastic deformation, general characteristics of cold and hot working, individual forming operations, preparatory and finishing operations, organization of production, and storage and utilization of waste.

Savitskiy, Ye. M., and M. A. Tylkina. Recrystallization of Titanium Alloys 226

Recrystallization of magnesium-reduced and iodide titanium is discussed in reference to its occurrence after cold working, hot forging, annealing, tempering, and hardening. Data are also given on the effect of the annealing temperature on the properties of titanium and the effect of alloying additions on the recrystallization temperature.

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Welding characteristics of titanium are discussed. Data are given on welding and soldering methods.

Ralent'yev, H. N., and A. I. Ponomarev. Methods for [Chemical] Analysis of Titanium and Titanium Products 284

Data are furnished on qualitative, volumetric, polarographic, and colorimetric methods of analysis. Phase analysis is also discussed.

Romanov, K. P. Theory and Practice of Machining [illegible] Alloys [illegible]

[illegible]

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SHELEST, A.Ye.; DANIL'CHENKO, A.N.; PAVLOV, I.M.

Drop forging and rolling of titanium and its alloys. Itogi nauki: Tekh. nauki no.2:195-225 '59. (MIRA 12:9)
(Titanium--Metallography) (Forging) (Rolling (Metalwork))

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DAN'CHEN KO, A. N.

PHASE I BOOK EXPLOITATION SOV/4502

Akademiya nauk SSSR. Nauchnyy sovet po probleme zharoprochnykh splavov

Issledovaniya po zharoprochnym splavam, tom 6 (Investigations of Heat-Resistant Alloys, Vol. 6) Moscow, 1960. 319 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova. Nauchnyy sovet po probleme zharoprochnykh splavov.

Editorial Board: I. P. Bardin (Deceased) Academician, S. V. Shuriyanov, N. V. Agayev, Corresponding Member, Academy of Sciences USSR (Resp. Ed.), I. A. Oding, I. N. Pavlov, and I. P. Ludin, Candidate of Technical Sciences; Ed. of Publishing House: V. A. Klimov; Tech. Ed.: S. G. Tikhomirova.

PURPOSE: This book is intended for research workers in the field of physics of metals and for metallurgists, particularly those working on heat-resistant alloys.

COVERAGE: This collection of 45 articles deals with various problems in the production of heat-resistant alloys. Special attention is paid to the mechanisms of deformation of such metals as aluminum, copper, iron, and nickel. Various defects and failures of metals are analyzed, and means for increasing the heat resistance and plasticity are described. Among the special problems discussed are: electrolytic conductivity of iron-aluminum alloys in the solid state; the mobility of atoms in nickel-iron alloys, depending upon defects of their crystalline structure; the kinetics of change in isolated pores; the irreversible thermal transformation of solid bodies, etc. No personalities are mentioned. References follow each article.

Gizburg, B.E., S.A. Lipatova, and S.E. Khaykina. Resistance of the Metal of Gas Turbines Against Vanadium Corrosion When Sulfurous Marats Are Used as Fuel 140

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BYCHKOVA, Z.S. (Moskva); VINOGRADOV, Yu.V (Moskva); DANIL'CHENKO, A.N. (Moskva); DZUGUTOV, M.Ya. (Moskva), MEZIS, V.Ya. (Moskva); RASTEGAYEV, M.V. (Moskva); STEPANOV, V.P. (Moskva).

Investigating the recrystallization of nickel-base heat-resistent alloy castings. Izv. AN SSSR. Otd. tekh. nauk. Met.i topl. no.5: 70-78 S-O '60. (MIRA 13:11)
(Heat-resistant alloys--Metallography) (Crystallization)

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DANIL'CHENKO, A.N.; RASTEGAYEV, M.V.; MEZIS, V.Ya.; DZUGUTOV, M.Ya.; VINOGRADOV, Yu.V.

Effect of press forging on the durability and plasticity of alloys. Issl. po zharopr. splav. 6:211-222 '60. (MIRA 13:9)
(Alloys—Metallography) (Deformations (Mechanics))

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22742

S/509/60/000/007/003/014
E193/E483

18.1285

AUTHOR: Danil'chenko, A.N.

TITLE: Investigation of Plasticity of Certain Titanium Alloys

PERIODICAL: Akademiya nauk SSSR. Institut metallurgii. Trudy, No.7. Moscow, 1960. pp.20-33. Metallurgiya metallovedeniye, fiziko-khimicheskiy metody issledovaniya

TEXT. Since plastic working (forging, rolling, coining etc.) operations are the main production processes used in the fabrication of both semi-finished products and finished titanium and Ti-base alloys components, it is particularly necessary to build up a comprehensive body of experimental data on the plastic properties of these materials. Hence the present investigation whose object was to study the effect of temperature on plasticity of the ВТ1Д (VT1D), ИМП1 (IMP1), ИМП2 (IMP2) and ИМП3 (IMP3) alloys. To obtain a complete picture of the plastic behaviour of these alloys the following properties were determined in the 20 to 1300°C range: (1) maximum permanent set, ε_{max}, that can be attained by the application of dynamic compressive load without causing cracking; this was determined on cylindrical specimens (15 mm in diameter,

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20 mm high), tested on a drop hammer with the striking velocity varying between 4.5 and 8 m/sec; (2) elongation (δ, %) and reduction of area (ψ, %) in static and dynamic tension, (3) impact strength (a_k kgm/cm^2); (4) workability, determined by flat rolling tests. Tests were usually carried out on specimens prepared from hot-forged material, the VT1D alloy was tested also in the as-cast condition. Special precautions were taken to minimize the degree of oxidation during preheating. The results are reproduced graphically. Fig.1 shows the temperature dependence of ε_{max} of the IMP1 (curve 1) and IMP2 (curve 2) alloys. The temperature dependence of δ and ψ is shown in Fig.4, graphs a, б, and в relating, respectively, to alloys IMP1, IMP2 and IMP3, and graphs г and д to forged and cast alloy VT1D; graphs а and б show the results of the dynamic tests, graphs в, г and д relating to the static tests. The temperature dependence of a_k of these alloys is shown (in the same order) in Fig.5. Finally, the temperature-dependence of workability is shown in Fig.6 where the maximum reduction in thickness (ε_m, %) attainable in flat rolling without cracking is

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plotted against temperature (°C) for (a) alloy IMP1, (б) alloy IMP2 and (в) alloy VT1D in the as-cast (continuous curve) and hot-forged (broken curve) condition. In the next stage of the present investigation, the specific deformation energy $a_д$ of the alloys studied was measured. This property is defined by $a_д = A_д / v_c$, where $A_д$ is the total energy expended in fracturing a tensile test piece and v_c is the volume of the material actually displaced in the direction of the applied load; it is calculated from $v_c = v_o \ln l_k/l_o$, where v_o is the volume of the metal confined within the gauge length of the test piece and l_o and l_k denote the gauge length before and after testing, respectively. The results of these tests are reproduced in Fig.7, where a (kgm/cm^2) is plotted against the test temperature (°C), graphs a, б, в, г and д relating, respectively, to the following materials: IMP1, IMP2, hot-forged VT1D, IMP3, cast VT1D. (Curves marked a_c and $a_д$ relate to static and dynamic tests, respectively.) Finally, the effect of preliminary working on the properties of alloy IMP1 was investigated. To this end, specimens of this alloy were hot-rolled at 800°C to attain various degrees of reduction in thickness (ε %) after which they

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were subjected to static tensile tests at 20°C The results are reproduced in Fig.8, where ψ and δ (% left-hand scale) and U.T.S. (σ_b kg/mm^2, right-hand scale) are plotted against ε It was concluded that hot-forged alloy VT1D has excellent plasticity throughout the investigated temperature range (20 to 1200°C), its plasticity in the as-cast condition is still quite good in the β-phase range (i.e. above 900°C) but rather unstable at lower temperatures Plasticity of alloys IMP1 IMP2 and IMP3 is about the same and lower than that of alloy VT1D
Acknowledgments are made to Corresponding Member of the AS USSR I.M Pavlov who directed the present investigation and to Z.S.Bychkova who participated in the experimental work There are 8 figures 1 table and 16 Soviet references.

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40980

S/659/62/009/000/014/030
I002/I203

AUTHORS Pavlov, I M, Danil'chenko, A N, Rastegayev, M V, Mezis, B Ya, Dzugutov M Ya and Vinogradov, Yu V

TITLE The influence of plastic deformation during rolling on the time to failure, and on the mechanical properties of heat-reisisting alloys

SOURCE Akademiya nauk SSSR Institut metallurgii Issledovaniya po zharoprochnym splavam v 9 1962 Materialy Nauchnoy sessii po zharoprochnym splavam (1961 g), 108–13

TEXT In an article published in vol. 6 of this series, the same authors (except Pavlov) concluded that the above influence should be investigated for every heat-resisting alloy individually In the present article a non-defined alloy designated as "Alloy B" usually used for flat forgings was investigated As a criterion of its heat resistance the time was taken to failure at 800°C, and its plasticity was evaluated from its shock resistance at 800°C, and at room temperature It was concluded that the time to failure of this alloy and its mechanical properties can be increased by plastic deformation with subsequent heat treatment This increase is probably due to the close-packed lattice of the acicular strengthening phase There are 3 figures

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34519

S/659/61/007/000/006/044
D217/D303

18.1950

AUTHORS: Rastegayev, M.V., Danil'chenko, A.N., Dzugutov, M.Ya., Bychkova, Z.S., Mezis, V.Ya., Vinogradov, Yu.V., and Stepanov, V.P.

TITLE: Recrystallization of cast, deformation-resistant alloys of the nichrome type

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Issledovaniya po zharoprochnym splavam, v. 7, 1961, 47 - 57

TEXT: The work was carried out under the supervision of I.M. Pavlova. The recrystallization of nichrome-type alloys has been studied very little, since their low plasticity in the cast state makes experimenting difficult. Therefore, a new method of hot working had to be developed, rendering upsetting without rupturing possible. This method, in which uniform upsetting is achieved, consists of making shallow flat grooves (0.5 - 0.8 mm) with rims of 0.5 mm width, in the end faces of a cylindrical specimens (30 mm long and 20 mm diameter). The grooves are filled with moistened asbestos or

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water glass, acting as lubricants during high temperature deformation under a drop hammer or press. This enables the contact friction to be decreased to a minimum and thereby permits deformation under conditions of linear compression. The results of investigations of recrystallization processes occurring in metallic alloys on hot working by pressure, are usually presented in the form of space diagrams of recrystallization of the second order within the coordinates "temperature, grain size and degree of deformation". However, these diagrams do not represent the entire recrystallization process which includes the old crystals to a certain extent, as well as any possible intercrystalline failures and their weldability. Therefore, the regions of full and incomplete recrystallization, as well as regions of failure and weldability between the crystals, should be indicated. A nichrome type alloy ingot, made under production conditions, was used in the investigation. Since the maximum transverse diameter of the dendritic crystals of the ingot attains 10 - 13 mm, the dimensions of the specimens were increased to 30 mm diameter and 40 mm length, as against 20 x 20 mm used in the uniform upsetting method. The dimensions of the end fa-

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ce grooves were increased proportionately to the new specimen dimensions. The specimen axes coincided with the longitudinal direction of the ingot. Three-dimensional recrystallization diagrams were constructed for cast nichrome type alloys by the "uniform" upsetting method, and also for cases in which the soaking time during annealing of the hot deformed metal had to be allowed for. The regions of complete recrystallization of a sound or defective structure, as well as regions of complete recrystallization of structures with welded-in defects were labelled. In all stages of hot deformation of nichrome-type alloys (in the cast or preliminarily recrystallized state) recrystallization (appearance and growth of new grains) was observed to take place. It was found that under certain conditions of hot working and appropriate cooling of forgings, a complex intercrystalline cohesion structure could be obtained in nichrome-type alloys which effectively increased their high temperature resistance. There are 6 figures, 4 tables and 10 Soviet-bloc references.

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DANIL'CHENKO, A.N.; OSIPOV, V.G.

Plasticity and roll-ability of low-alloy steel at high temperatures. Trudy Inst.met. no.9:78-81 '62. (MIRA 16:5)
(Steel—Testing)

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

S/509/62/000/009/002/014
D207/D308

AUTHORS: Danil'chenko, A. N. and Osipov, V. I.

TITLE: Plasticity and reliability of low-alloy steel at high temperatures

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Trudy, no. 9, Moscow, 1962. Voprosy plasticheskoy deformatsii metalla, 78-81

TEXT: Rolling tests were carried out on the low-alloy steel НЛ-2 (NL-2) because low-alloy steels are recommended by the new standard ГОСТ 5058-57 (GOST 5058-57) for structural purposes instead of carbon steels of the Ст3 (STZ) type. The NL-2 steel corresponds to the 15ХНМД (15KHMD) chrome-nickel-copper steel in GOST 5058-57. Samples of NL-2 (45 x 100 x 500 or 45 x 90 x 500 mm in size) were deformed to various degrees (from [illegible] to [illegible]%) by rolling between 400 mm diameter rolls at 1150 - 1200°C at the beginning of a pass and 700 - 900°C at the end of it. In some cases the initial temperature was 1000 - 1050°C. The following conclusions were drawn:

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Plasticity and rollability ...

The NL-2 steel suffers a high reduction in thickness (over 90% in one pass) without any signs of fracture. The high degrees of thickness reduction do not greatly affect the quality of the surface or the mechanical properties. Even at the highest obtainable reductions the properties of the rolled steel satisfied the requirements of GOST 5058-57. Some lateral spread was observed at the highest deformations. The results confirm that an increase in the degree of deformation can be obtained without increasing the strength of the rolls: It can be done by reducing the temperature range of a rolling pass and ending at relatively high temperatures. Measurements of plasticity under laboratory conditions were found to reflect correctly the behavior of the NL-2 steel during deformation at high temperatures. There are 2 figures and 1 table.

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D207/D308

12 1250

AUTHOR: Danil'chenko, A. N.

TITLE: Effect of niobium on the plasticity of a nickel-base alloy

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Trudy, no. 9, Moscow, 1962. Voprosy plasticheskoy deformatsii metalla, 82-86

TEXT: Three alloys were prepared: No. 1 - Kh20T (KhN80T) with the Ni/Cr ratio of 3.75 without niobium; no. 2 - with 1.1% Nb; no. 3 - with 1.9% Nb. Before testing they were subjected to mechanical treatment for removal of surface defects and they were then hot-forged above 1000°C into samples with square and circular cross-section. Shock extension tests were carried out on the alloys using a pendulum drop hammer of MK-30 (MK-30) type. These tests showed that the alloy no. 2 had the highest plasticity which peaked at 1030 - 1150°C. Rolling tests at 900 - 1250°C on wedge-shaped strips deformed between 250 mm diameter rolls showed reduction

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Effect of niobium ... S/509/62/000/009/003/014
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from 10 mm (at the thicker end) to 1.5 - 2 mm. The rolling tests indicated that both no. 2 and no. 3 alloys were more plastic than no. 1. The plasticity determined by rolling was practically the same for the alloys nos. 2 and 3 between 900 and 1200°C: It corresponded to 50 - 80% reduction of the strip thickness. There are 3 figures.

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PAVLOV, I.M.; DANIL'CHENKO, A.N.; RASTEGAYEV, M.V.; MEZIS, V.Ya.; DZUGUTOV, M.Ya.; VINOGRADOV, Yu.V.

Effect of plastic deformation during rolling on time length before rupture and on the mechanical properties of heat-resistant alloys. Issl. po zharopr. splav. 9:108-113 '62. (MIRA 16:6)
(Heat-resistant alloys--Testing)
(Deformations (Mechanics))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

L 4-062-65 EWT(m)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) Pf-4/
Pu-4 IJP(c) MJW/JD/EM/JG

ACCESSION NR: AR5008958 S/0277/65/000/001/0025/0025

43
41
B

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Otd. vyp., Abs. 1.48.125

AUTHOR: Pavlov, I. M.; Danil'chenko, A. N.; Rastegayev, M. V.; Mezis, V. Ya.; Napalkov, L. A.; Kuleshov, M. Ya.

TITLE: A study of plasticity and microstructure of VM-2 alloy when deformed by upsetting

CITED SOURCE: Tr. Mosk. in-ta metallurgii, Mosk. energ. in-ta i Mosk. in-ta stali i splavov vyp. 44, 1963, 256-263

TOPIC TAGS: molybdenum alloy, alloy plasticity, alloy microstructure, hot upsetting, bulge test, optimum deformation temperature, VM-2 alloy

TRANSLATION: The report gives the results of a study of the plasticity and microstructure of VM-2 molybdenum alloy after upsetting. The alloy's mechanical properties at room temperature were: $\sigma_{0.2} = 27.2 - 28.0$ kg/mm^2, $S_{cr} = 37.0 - 41.0$ kg/mm^2, $\delta = 6-10\%$, $\psi = 5-8.5\%$. Samples with diameter = 20 mm were bulge-tested on a 450 kg-m vertical impact tester with a max. ram drop rate of 10 m/sec. Billets were annealed at 1400C prior to shaping into cylindrical samples.

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L 45062-65

ACCESSION NR: AR5008958

It was found that commerical grades of VM-2 alloy exhibit adequate plasticity in a pressed and annealed state. The samples were upset along the axis of symmetry to levels of 70% without the development of cracks at 800-1400C. Cracks were also absent in diameter reduction (spread) to max. deformation of 55-58% at 800 or 900C. They occurred only when upsetting at 500-700C. A comparison of effective pressure values for open end upsetting at 900-1200C has shown that this characteristic reaches levels higher by 10-40% for VM-2 alloy than for steels Kh17N2 and 30KhGSA, other conditions being equal. Deformation temperatures of 1200 to 900C are recommended in relation to alloy VM-2. Bibl. with 3 titles; 4 illustrations. G. Mekhed

SUB CODE: MM ENCL: 00

Card 2/2

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

L 9961-65 EWT(m)/T/EWP(b) ASD(m)-3 JD/MLK

ACCESSION NR: AT4046865 S/0000/64/000/000/0336/0341

AUTHOR: Pavlov, I.M. (Corresponding member AN SSSR); Rastegayev, M.V.; Danilchenko, A.N.; Zharov, V.M.; Falaleyeva, Z.S.; Mezis, V.Ya.; Dzugutov, M.Ya.; Vinogradov, Yu.

TITLE: Effect of primary thermoplastic treatment on the properties of a heat resistant alloy

SOURCE: AN SSSR. Nauchnyy sovet po probleme zharoprochnykh splavov. Issledovaniya staley i splavov (Studies on steels and alloys). Moscow, Izd-vo Nauka, 1964, 336-341

TOPIC TAGS: thermoplastic treatment, heat resistant steel, steel upsetting, steel microsection, heat resistant alloy, strain hardening, impact toughness, stress rupture strength

ABSTRACT: Lately, many articles have been published on plastic deformation under pressure combined with thermal treatment to obtain metals of high strength. In almost all publications, the tested metal had previously undergone treatment under pressure. In the opinion of the authors of the present paper, special attention should be paid to the initial thermoplastic treatment. If the required properties are reached at this time, further treatment is unnecessary. Previously, the authors of this article investigated cast heat-resistant alloy B from an arc

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ACCESSION NR: AT4046865

furnace by upsetting, thus obtaining various structural densities and grain boundaries affecting the heat resistance of the steel. In the given paper, heat-resistant alloy B was obtained by electric slag smelting. Thus, the initial cast structure was much better than the one described in the previous paper. The B alloy is complex and has a narrow interval for thermal treatment under pressure. The ingot (diam. 150 mm, length 600 mm) was cut into three equal parts of 150x200 mm. The parts were upset as shown in Figs. 1-3 of the Enclosure. The first two parts underwent the same degree of deformation, namely 0.844. The final contact coefficient (ratio of cylinder diameter to height) at the end of compression was 17.1. For the third part, the degree of deformation was 0.85 and the final contact coefficient was 12.9. Microsections showed that all three parts had a similar dense structure. Further, all three parts were cut into 20x20x70 mm samples for measurement of the yield point and strength. The third part had the highest values, while part two had the lowest. The second part had the highest impact toughness, while part 3 had the lowest. The stress-rupture strength after 100 hours was 14 kg/mm^2 for part 1, 16 kg/mm^2 for part 2 and 20 kg/mm^2 for part 3, which was verified by microstructural analysis; before 30 hours, the stress-rupture strength of part 1 was higher than that of part 2. It is noted in conclusion that thermoplastic treatment leads to high quality metals and alloys. The use of electric slag smelting improves the metal structure. Improvement of mechanical

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ACCESSION NR: AT4046865

properties depends to a high degree on the correct choice of deformation procedure, which still requires further investigation. Orig. art. has: 5 figures, 1 table and 5 formulas.

ASSOCIATION: none

SUBMITTED: 16Jun64 ENCL: 02 SUB CODE: MM

NO REF SOV: 004 OTHER: 000

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

L 9961-65

ACCESSION NR: AT4046865

ENCLOSURE: 01

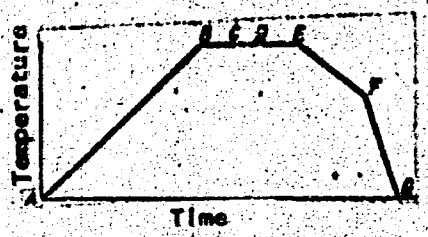

Fig. 1. Diagram of upsetting of part 1 of alloy B: AB-heating in furnace; BC-heating at given temperature; CD-upsetting in press; DE-heating in furnace; EF-slow cooling in glass wool; FG-air cooling.

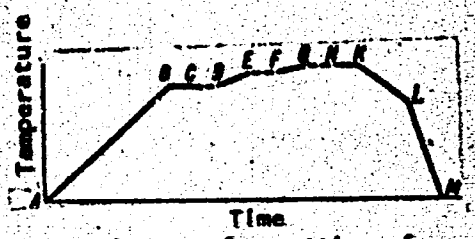

Fig. 2. Diagram of upsetting of part 2 of alloy B: AB-heating in furnace; BC-heating at given temperature; CD-upsetting; DE-heating in furnace; EF-second upsetting; FG-heating in furnace to temperature of G; GH-third upsetting; HK-heating in furnace to temperature of H; KL-slow cooling in glass wool; LM-air cooling.

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

L 9961-65

ACCESSION NR: AT4046865

ENCLOSURE: 02

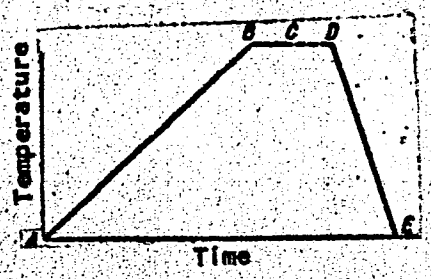

Fig. 3. Diagram of upsetting of part 3 of alloy B: AB-heating in furnace; BC-heating at given temperature; CD-upsetting during one stroke of press; DE-air cooling.

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

ACC NR: AT6034443 (A) SOURCE CODE: UR/0000/66/000/000/0109/0112

AUTHOR: Rastegayev, M. V.; Danil'chenko, A. N.; Kashin, V. I.; Zharov, V. M.; Yasyukov, G. A.

ORG: none

TITLE: Investigation of the recrystallization process in tungsten

SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh splavov (Properties and application of heat resistant alloys). Moscow, Izd-vo Nauka, 1966, 109-112

TOPIC TAGS: tungsten, metal recrystallization

ABSTRACT: The subject of the investigation was vacuum melted tungsten, reduced with niobium. The tungsten billets with a diameter of 35 mm were worked down on a lathe to a diameter of 16 mm and were cut into samples with a height of 39 mm. Upsetting of the samples was done in a hydraulic press with a degree of reduction of about 40%. The first part of the samples was subjected to stepwise annealing in a vacuum furnace (vacuum 10^{-4} mm Hg) at temperatures of 1250, 1400, 1600, 1800, and 2000° for a period of 40 minutes. After each anneal, the samples were cooled in the furnace to 20°; polished samples were then prepared and examined for degree of recrystallization. The experimental results are shown in a three dimensional diagram of the recrystallization

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ACC NR: AT6034443

of the cast structure of tungsten. Analysis of the results shows that 100% recrystallization of the cast structure in the samples, deformed by approximately 40% in the temperature interval from 400-1200°, is completed at a stepwise annealing temperature of 2000°. With direct heating (without steps) of the second part of the samples, although complete recrystallization was assured, the boundaries of the old crystals were retained. With annealing temperatures in the interval from 1400-1800°, the cast structure recrystallized partially within the limits of 25-90%. At an annealing temperature of 1250°, the cast structure of the samples deformed by 40% in the temperature interval 200-1250° did not recrystallize. The cast structure, deformed at 200°, did not recrystallize in the temperature interval from 1250-1600°. However, in samples deformed at higher temperatures (800°) partial recrystallization was observed. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 10Jun66/ ORIG REF: 003/ OTH REF: 001

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, B., inzh.

Cleaning the radiator of SK-3 combines. Tekh. v sel'khoz. 20 no.7:85 Jl '60. (MIRA 13:9)

1. Sukhotlinskiy sernosovkhoz, Bashkirskoy ASSR.
(Combines (Agricultural machinery))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO B. V.

(16)

AUTHOR: Panovko, V. M., Engineer

TITLE: All-Union Conference on the hardfacing of dies for hot and cold press-forming

PERIODICAL: Svarochnoye proizvodstvo, no. 3, 1963, 44 - 45

TEXT: The First All-Union Scientific-Technical Conference on hardfacing of dies was held at Volgograd from November 27 - 29, 1962. The Conference heard the following reports: N. T. Prosvirov (VNIIPTMASh) on "Operational conditions and the type of forging dies"; L. A. Pozdnyakova (ENIKMASh) on "Problems of the durability of dies and press-forming steels"; V. A. Popov, ENIKMASh, on some structural peculiarities of carbide tools for cold extrusion and upsetting; I. I. Frumin, B. V. Danil'chenko (Institute of Electric Welding imeni Ye. O. Paton) on "Electric-slag hardfacing of some dies"; L. Kolomiets (IES imeni Ye. O. Paton) on "Reconditioning of dies by electric-slag hardfacing"; V. A. Timchenko (IES imeni Ye. O. Paton) on "A machine with program control for automatic hardfacing of forging dies"; Reports on manual arc-hardfacing of dies were delivered by N. V. Popov (Volgograd Tractor Plant), V. M. Panovko and Ye. O. Bloshkin (Moscow Experimental Welding Plant); O. D. Superko (Chelyabinsk Tractor Plant), N. I. Nikolko (Ural Heavy Machinebuilding Plant), P. M. Sapov ("Rostsel-mash"), N. I. Kuzovkova (GAZ), Yu. P. Zaytsev (ENIKMASh), V. I. Il'yin (ZIL), Gopovin (Khar'kov "Svet shakhtera" Plant), and others. In a decision the Conference mentioned deficiencies connected with the subject, i.e. lack of unified electrodes; of centralized production; of unified technological instructions on the hardfacing of dies; of methods for evaluating the quality of hardfaced metal, and lack of high-quality electrodes for hardfacing cast-iron dies. The Conference decided to take steps in order to eliminate the aforementioned deficiencies.

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DANIL'CHENKO, B.V.; SUBBOTOVSKIY, V.P.

Electric slag buildup welding of certain types of forging dies. Avtom.svar. 17 no.1:71-74 Ja '64. (MIRA 17:3)

1. Institut elektrosvarki imeni Patona AN UkrSSR.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, I.A.

Rectification of the probabilities of the appearance of binary digits by superposing direct and inverse representations. Vop. teor. mat. mash. no.2:226-231 '62. (MIRA 15:8)
(Electronic calculating machines) (Mathematical statistics)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

ACC NR: AT6023929 SOURCE CODE: UR/3220/66/000/001/0012/0021

AUTHOR: Danil'chenko, I. A.

ORG: none

TITLE: On the problem of systematizing electronic digital computers

SOURCE: Tsifrovaya vychislitel'naya tekhnika i programmirovaniye, no. 1. Moscow, 1966, 12-21

TOPIC TAGS: electronic computer, computer classification, digital computer, computer component

ABSTRACT: The last decade has seen great proliferation of digital computers in accord with the principles, logic, and circuitry used in them. This article presents a classification on the following divisions and subdivisions and gives general remarks about each. Function: Calculation, Information, Control (general and special purpose); Basic elements: Tubes; Semiconductors; Molectron (integral, functional); Capacity: Small, Medium, Large, Large-capacity systems; Physical interpretation of codes: Static (potential, pulse-potential, pulse), Dynamic (pulse, phase, frequency); Information routing: Parallel, Series, Series-parallel; Order of command sequence: Natural, Arbitrary; Numeration system: Positional (binary, binary-coded, non-binary), Non-positional; Command type: Single-address, Multi-address (uniform or non-uniform address structure), Arbitrary instruction format, Permanent structure, Variable

Card 1/2 UDC: 681.142.3

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ACC NR: AT6023929

structure; Number representation: Fixed point, Floating point; Realization of commands; Macroprogram, Microprogram, Micro-operation; Coordination of work: Synchronous (constant or varialbe execution time), Asynchronous (autonomous or centralized circuit synchronization); Organization of computing process: Single-program, Multiprogram (design or time division); Operating conditions: Stationary, Mobile. Orig. art. has: 1 formula and 1 table.

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

V-28-58-4-09/35

AUTHORS: Myrzak, Yu. I., and Danil Chenko, [illegible], Engineers

TITLE: The Application of Standards to Structural and Machine-Construction Steel (O primeneniyu standartov na konstruktsionnuyu i mashinostroitel nuyu stal

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp [illegible]

ABSTRACT: Steel production adapted to the new GOST standards 380-57, 1050-57 and 4543-57 must be stepped-up. These standards provide for raised requirements in the quality of steel, and are directed to the improvement of mechanical properties and homogeneity of steel, by a reduced limit interval of basic components and reduced impurity content in the chemical composition. Yield limits were also included into the standards as a characteristic for determining steel strength. Experimental casts from the Taganrog Metallurgical Plant, the Stalingrad "Krasnyy Oktyabr" Plant and the Zhdanov Plant imeni Il ich were subjected to investigation and revealed that the intervals of carbon con-

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tent were reduced and that sulfur and phosphorus content complied with requirements set up by GOST 380-57 i.e. not over 0.05% of sulfur and not over 0.045% of phosphorus. There are 8 graphs.

ASSOCIATION: Taganrogskiy zavod "Krasnyy Kotel'shchik" (The Taganrog "Krasnyy Kotel'shchik" Plant)

1. Steel--Production 2. Steel--Quality control 3. Steel --Standards

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

SOV [illegible]-6-24/34

AUTHORS: Myrzak, Yu.P., Danil'chenko, I.I., Engineers

TITLE: On the Technical Specifications for Steel Tubes (O tekhnicheskikh usloviyakh na stal'nyye truby)

PERIODICAL: Standartizatsiya, 1958, Nr 6, pp [illegible] (USSR)

ABSTRACT: In boiler manufacturing, hot-rolled tubes which are connected by electric arc or contact butt welding are used. The non-coincidence of the outer diameters of the two tubes must not exceed 3 mm or 10% of the thickness of the tube, the difference of the two inner diameters 2 mm. The tolerances in the outer diameter and the thickness of the wall do not satisfy all requirements for connecting the tubes. In the State Standard GOST 8732-58, the deviations are not kept in narrow

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SOV/28-58-6-24/34

On the Technical Specifications for Steel Tubes

enough limits. A new standard should be developed.

ASSOCIATION: Taganrogskiy zavod "Krasnyy kotel'shchik" (Taganrog Plant "Krasnyy kotel'shchik")

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, K.Ya., gornyy inzhener.

Organization of work cycles in stoping. Gor.zhur. no.10:23-26 O '56. (MLRA 9:12)

1. Proizvodstvennoye upravleniye Dal'stroya.
(Soviet Far East--Mine management)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

[illegible]

[illegible]: "The pedagogic activity [illegible] of A. [illegible] Ostrogorskiy". Moscow, [illegible]. Min Education [illegible]. [illegible] Pedagogical Inst imeni V.P. Potemkin. (Dissertation for the degree of candidate of Pedagogical Sciences).

[illegible] Leninskoye Zaletoviye [illegible], [illegible] October [illegible]. [illegible].

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

BABIN, Pavel Nikolayevich, kand.tekhn.nauk; ZUBAKOV, Sergey Mikhaylovich, kand.tekhn.nauk; AVER'YANOV, Veniamin Aleksandrovich, inzh.; VASHCHENKO, Fedor Il'ich, starshiy master; KUNAYEV, Vyacheslav Gavrilovich; EPOV, Georgiy Agafonovich, inzh.; BYCHKOV, Fedor Nikolayevich; DANIL'CHENKO, Mikhail Pavlovich; GOTS, Stepan Nikolayevich; ZHUKOVA, N.D., red.; ALFEROVA, P.F., tekhn.red.

[Work practices of the Kazakh Steel Mill] Iz opyta raboty Kazakhskogo metallurgicheskogo zavoda. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1960. 112 p. (MIRA 13:12)

1. TSentral'naya laboratoriya Kazakhskogo metallurgicheskogo zavoda (for Kunayev). 2. Nachal'nik martenovskogo tsekha Kazakhskogo metallurgicheskogo zavoda (for Epov). 3. Inzhenerno-tekhnicheskiye rabotniki prokatnogo tsekha Kazakhskogo metallurgicheskogo zavoda (for Bychkov, Danil'chenko, Gots).
(Kazakhstan--Steel industry)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

PROCESSES AND PROPERTIES INDEX

Plastic properties of high-chromium and of chromium manganese-silicon steels. N. M. Dand'chenko. *Teoriya i Prakt. Met.* No. 10, 60-70 (1937). — The following steels were investigated. (1) C 0.10, Cr 30.13, Si 0.68, Mn 0.48, P 0.12%, (2) C 0.20, Cr 30.73, Si 0.75, Mn 0.46, P 0.01%, (3) C 0.20, Cr 18.75, Mn 13.4, Si 1.41%. The investigation was directed along the following lines: (a) Effects of deformations and of subsequent heating temp upon the microstructure. (b) Effects of cold deformations and of subsequent heat treatment upon the plastic properties of the steels. For the first 2 steels the crit deformation was in the interval 5-12%. The plastic properties reappear at 550°. The best plastic properties are at 650-700°. At 1000° and 5% deformation there is a sharp drop of the plastic properties, the same is true at 1100° and large deformations. For 5% deformation there was a noticeable grain growth at 800°, at 1000° it reaches large proportions, and at 1200° it reaches a max. For deformations of 30 and 50% there is a weak grain growth at 900° which becomes considerable at 1100° and reaches a max. at 1200°. For the third steel the plastic properties do not change much up to 600° for both large and small deformations. From 600° on there is a sharp drop in the plastic properties. For large deformations this drop starts earlier (500°). From 900° there is a rapid rise in the plastic properties which reach a max. at 1000-1100°. Small deformations (5, 7, 10%) did not bring any noticeable changes in the microstructure, for 20 and 30% there was a change in the normal arrangement, and for 50% the structure had a fibrous character. Heating to 700-800° eliminates the fibrous structure.

B. Z. Kamich

METALLURGICAL LITERATURE

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

CA

4

The form of carbon inclusion in annealed steel. K. P. Bu[illegible] and N. M. Danil'chenko. *Doposidi Akad. Nauk Ukrain. R.S.R.* 1950, 111-15. *cf.* C. I. 45, [illegible]. On the basis of examins of steel specimens under the microscope it is proposed that the forms of inclusions of anneal C depend on the shape of the voids which in turn depend on the self diffusion of the Fe. Additives also play an important role. For example, S and Mg lead to formation of spherical voids.

Murray Senkus

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

C. A

Metastability of iron carbon alloys K. I. Bunin and N. M. Danil'chenko *Doklady Akad. Nauk S.S.S.R.* 72 [illegible] It is proposed that the principal factor of the graphitization of Fe-C alloys is the self-diffusion of Fe to produce the voids in which the graphite can nucleate and grow. As evidence for this view careful expts. on graphitization above the eutectoid temp. have given [illegible] mol. as the activation energy of the process. This value is closer to that for self-diffusion of Fe [illegible] than for the diffusion of C in Fe [illegible]. Also prior treatments that produce voids or cracks in the alloy greatly speed graphitization: quenching, working and interdendritic shrinkage. The effect of Si on graphitization may be the result of [illegible] creasing the rate of self-diffusion of Fe [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

BUNIN, K.P., chlen-korrespondent; DANIL'CHENKO, N.M.; IVANTSOV, H.I.

The source of line-like graphite impurities in wrought iron. Dop.AN URSR no.3: 237-241 '52. (MLRA 6:9)

1. Akademiya nauk Ukrayins'koyi RSR (for Bunin). 2. Dnipropetrovs'kyy metalurhichnyy instytut im. Y.V.Stalina. (Wrought iron)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, N. M.

USSR/Metallurgy - Malleable Iron, Structure Jun 52

"On the Origin of Graphite Strings in Malleable Iron," K. P. Bunin, Corr Mem, Acad Sci Ukrainian SSR, N. M. Danil'chenko, Engr, G. I. Ivansov, Cand Tech Sci. "Litey Proizvod" No 6, pp 21-23

Establishes that string inclusions of graphite in malleable iron of normal chem compn and at normal conditions of heat treatment are formed during annealing of white cast iron in zones of shrinkage microporosity. States that basic measure against this defect is elimination of possibility for formation of dispersed shrinkage, for which purpose successive directional crystn must be achieved during solidification of castings.

PA 230T42

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

DANIL'CHENKO, N. M.

USSR/Metals - Cast Iron, Heat Treatment 21 Jan 52

"Concerning the Effect of Preliminary Hardening on the Graphitization Rate of Cast Iron," K. P. Bunin, N. M. Danil'chenko

"Dok Ak Nauk USSR" Vol LXXXII, No 3, pp 381-383

Presents exptl data corroborating previously formulated assumption concerning role of preliminary hardening. Numerous microscopic hardening cracks are formed in matrix of white cast iron, on interphase surfaces as well as in martensite, being

211T81

filled out with C on heating of cast iron. Thus, centers of graphitization are created accelerating graphitization process. Submitted by Acad I. P. Bardin.

211T81

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, N. M.

USSR

Influence of surface on graphitization of white iron. K. P. Bunin, Ya. V. Grechnyi, and N. M. Danil'chenko. *Liteinoe Proizvodstvo* 1955, No. 5, 12-15.—Already proposed mechanisms of graphitization are reviewed (24 references), and the effect of thickness, character of the surface and of H_2 content is detd. experimentally. Two induction furnace irons deoxidized with 0.084% Al and contg. C 2.8, Si 0.91, Mn 0.36, S 0.41, P 0.088, Cr 0.06% and C 2.41, Si 0.82, Mn 0.22, S 0.088, P 0.084%, resp., and a cupola iron with C 2.81, Si 0.88, Mn 0.50% were cast in 20 × 200-mm. bars at 1420° and graphitized at 980° in a mixt. of cast iron borings, coal and graphite. Some of the cylinders were machined at one end to a point and machining stresses eliminated by anodic etching before graphitization. Heating 1 hr. at 980° showed that graphitization is not uniform throughout the body of specimens, being facilitated at the surface and retarded in the core. Dendritic structure of the iron has no effect on its graphitization pattern. No relation was found between the amt. of evolved H obtained in graphitization in vacuum and the no. of formed graphite particles.

J. D. Gat

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

Danil'chenko, N. M.

8
0
0
0

Influence of macrostructure on the plasticity of steel. A. P. Chekmarev, A. A. Dinnik, V. P. Grechko, I. P. Filichkin, and N. M. Danil'chenko. *Stal'* 16, 235-40 (1956).—For checking the necessity of light passes in blooming tender ingots, 3 ingots of 0.50% C rail steel and of 0.18 C-0.81 Mn open steel were bloomed down and one of each was cut into slabs contg. ingot skin, dendritic layer, or equiaxial crystals of ingot core. Blooms were then forged down to the dimensions of these slabs, and all of them were rolled after proper heating in one pass into wedges in an eccentric mill with a max. reduction of 93%. Studying reductions necessary for crack formation permitted the conclusion that the macrostructure of the steel has no effect whatever on its plasticity characteristics, and cracking, when occurring, was caused by surface defects. J. D. Gat

M6

5

Inst Ferrous Metallurgy im Petrovskiy

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

VANILCHENKO, N.M.

3
18 1-4E2c

12049* (Russian.) Methods of Investigating Cast Iron Graphitization Kinetics. K voprosu o metodike issledovaniia kinetiki grafitizatsii chuguna. Ia. V. Grechnyi and N. M. Danil'chenko. *Liteinoe Proizvodstvo*, no. 3, Mar. 1957, p. 20-22.

Critical review of test methods.

RG aonf

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

BUNIN, K.P.; GRECHNYY, Ya.V.; MALINOCHKA, Ya.N.; TARAN, Yu.N.; BEL'CHENKO, G.I.; POGREBNYY, E.N.; DANIL'CHENKO, N.M.; YATSENKO, A.I.; KEPIN, A.K.; BARANOV, A.A.; SHPAK, T.M.

Is metastable austenite possible at a point higher than A_1? Izv.vys.ucheb.zav.; chern.met. no.10:143-144 O '58. (MIRA 11:12)

1. Dnepropetrovskiy metallurgicheskiy institut i Institut chernoy metallurgii AN USSR.

(Austenite) (Phase rule and equilibrium)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, N.V.

Equations of hydrodynamic flow nets for hydraulic-fill charts. Nauch.dokl.vys.shkoly; stroi. no.1:263-268 '59. (MIRA 12:10)

1. Rekomendovana kafedroy gidravliki Moskovskogo inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva.
(Hydraulics)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

ALEKSEYEV, V. I., kand.sel'skokhoz.nauk; DANIL'CHENKO, N.V. (g.Alma-Ata)

Establishing irrigation norms for agricultural crops by the evaporation deficit method. Gidr. i mel. 12 no.8:10-15 Ag '60. (MIRA 13:8)

(Alma-ata Province--Irrigations research)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

KISELEV, Petr Grigor'yevich, kand. tekhn. nauk; Prinyal uchastiye KRIVCHENKO, G.I., dots., kand. tekhn. nauk; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; DANIL'CHENKO, N.V., red.; ZHIVOTOVSKIY, L.S., red.; ORLOV, V.A., red.; VORONIN, K.P., tekhn. red.

[Reference book for calculations in hydraulic engineering] Spravochnik po gidravlicheskim raschetam. Izd.3., perer. i dop. Pod red. V.D.Zhurina. Moskva, Gos. energ. izd-vo, 1961. 352 p. (MIRA 14:8)

(Hydraulics—Tables, calculations, etc.]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, N. V.

Cand Tech Sci - (diss) "Study of filtration and infiltration in the process of silting earth dams." Moscow, 1961. 18 pp; (Academy of Construction and Architecture USSR, All-Union Scientific Research Inst of Water Supply, Canalization, Hydraulic Structures, and Hydrogeology "VODGYeO"); 180 copies; price not given; bibliography on pp 17-18; (KL, 7-61 sup, 234)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

GORYUNOV, N.S., kand. tekhn. nauk (Dzhambul); KVAN, R.A., inzh. (Dzhambul); DANIL'CHENKO, N.V., irzh. (Dzhambul)

Irrigation conditions of sugar beets in Kazakhstan. Gidr. i mel. 16 no.7:3-13 Jl '64. (MIRA 17:11)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, O.P.

Interrelationship between biology, physics, and chemistry. Nauch. dokl. vys. shkoly; biol. nauki no.4:209-210 '59. (MIRA 12:12)

(Biology)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, O.P.

Dynamics of Sr^{90} and Y^{90} metabolism in the sturgion body. Nauch. dokl. vys. shkoly; biol. nauki no.1:148-151 '60. (MIRA 13:2)

1.Rekomendovana kafedroy biofiziki Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.
(FISH TAGGING) (STRONTIUM--ISOTOPES)
(YTTRIUM--ISOTOPES)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, O. P.

Cand Biol Sci - (diss) "Metabolism of strontium-90 and ittrium-90 in the organism of the sturgeon." Moscow, [Pub. Moscow Univ], 1961. 11 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov); 200 copies; price not given; (KL, 5-61 sup, 183)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

KALASHNIKOVA, Tat'yana Mikhaylovna; SAUSHKIN, Yu.G., prof., otv.red.; DANIL'CHENKO, O.P., red.; YERMAKOV, M.S., tekhn.red.

[Features of the economic geography of Northern Russia; lecture] Ekonomiko-geograficheskaia kharakteristika Severa SSSR; lektsiia. Otvet.red.IU.G.Saushkin. Moskva, Izd-vo Mosk.univ., 1960. 38 p. (MIRA 14:3)

(Russia, Northern--Economic geography)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

PRONIN, Vladimir Aleksandrovich; DANIL'CHENKO, O.P.; YERMAKOV, M.S., tekhn.red.

[Michurian Darwinism] Michurinskii darvinizm. Moskva, Izd-vo Mosk.univ., 1961 22p. (MIRA 14:6)
(BIOLOGY) (EVOLUTION)
(MICHURIN, IVAN VLADIMIROVICH, 1855-1935)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

SHUL'GIN, Aleksandr Mikhaylovich; DANIL'CHENKO, O.P., red.; YERMAKOV, M.S., tekhn. red.

[Agrometeorology; a course of lectures for correspondence students at biological departments of state universities] Agrometeorologiia; kurs lektsii dlia studentov-zaochnikov biologicheskikh fakul'tetov gosudarstvennykh universitetov. Moskva, Izd-vo Mosk. univ., 1961. 132 p. (MIRA 15:3)
(Meteorology, Agricultural)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

LANGE, Oktaviy Konstantinovich, prof.; IVANOVA, Valentina Fedorovna; DANIL'CHENKO G.P., red.; YERMAKOV, M.Ye., tekhn.red.

[General geology; a lectu- course] Obshchaia geologiia; kurs lektsii. Pod red. A.Lange. Moskva, Izd-vo Mosk.univ. No.1. 1961. 242 p. (MIRA 14:12)
(Geol -)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

KRUKOVSKIY, Yuriy Aleksandrovich; AVDEICHEV, Lev Alekseyevich; DANIL'CHENKO, O.P., red.; MASLENNIKOVA, T.A., tekhn. red.

[Economic geography of the Pyrenean countries: Spain and Portugal. Lecture for correspondence school students of the geographical faculties of state universities]Ekonomicheskaia geografiia Pireneiskikh stran; Ispaniia i Portugaliia. Lektsii dlia studentov-zaochnikov geograficheskikh fakul'tetov gosudarstvennykh universitetov. Moskva, Izd-vo Mosk. univ., 1962. 78 p. (MIRA 15:10)

(Spain—Economic geography)
(Portugal—Economic geography)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

L'VOVA, Irina Nikolayevna; KUPERMAN, F.M., prof., otv. red.; DANIL'CHENKO, O.P., red.; GEORGIYEVA, G.I., tekhn. red.

[Sex in plants; a lecture from the course "Biology of plant development"] Pol u rastenii; lektsiia dlia studentov zaochnogo i vechernego otdelenii biologicheskikh fakul'tetov gosudarstvennykh universitetov. Lektsiia iz kursa "Biologiia razvitiia rastenii." Moskva, Izd-vo Mosk. univ., 1963. 54 p. (MIRA 16:5)

(Plants, Sex in)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

SHUL'GIN, Igor' Aleksandrovich; KUPERMAN, F.M., prof., otv. red.; KLESHNIN, A.F., prof., otv.red.; DANIL'CHENKO, O.P., red.; GEORGIYEVA, G.I., tekhn. red.

[Morphological adaptations of plants to light; optical properties of leaves. A lecture from the course "Biology of plant development"] Morfofiziologicheskie prisposobleniia rastenii k svetu; opticheskie svoistva list'ev. Lektsiia iz kursa "Biologiia razvitiia rastenii." Moskva, Izd-vo Mosk. univ. 1963. 72 p. (MIRA 16:9)

(Leaves—Optical properties)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

SHAPOCHKA, Nikolay Mikhaylovich; DANIL'CHENKO, O.P., red.; YEGMAKOV, M.S., tekhn. red.

[Lamarck's theory of evolution; lecture from a course in Darwinism] Evoliutsionnoe uchenie Lamarka; lektsiia iz kursa "Darvinizma." Moskva, Izd-vo Mosk. univ. 1963. 82 p. (Evolution) (MIRA 16:12)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

GREGUSH, P. [Greguss, Pal]; FILIN, V.R.[translator]; CHISTYAKOVA, G.N.[translator]; DANIL'CHENKO, O.F., red.; MUKHINA, L.V., tekhn. red.

[A guide to the wood analysis of gymnosperms based on microscopic data] Opredelitel' drevesiny golosemennykh po mikroskopicheskim priznakam. Moskva, Izd-vo Mosk. univ. 1963. 183 p. Translated from the Hungarian. (MIRA 16:11)

(Wood--Anatomy) (Gymnosperms)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

GURTOVOY, Nikolay Nikolayevich; MATVEYEV, B.S., prof., red.; DANIL'CHENKO, O.P., red.; CHISTYAKOVA, K.S., tekhn.red.

[Comprehensive laboratory manual on zoology of the vertebrates; anatomy section] Bol'shoi praktikum po zoologii pozvonochnykh; anatomicheskaia chast'. Moskva, Izd-vo Mosk. univ., Pt.1. no.2.[Cyclostomata] Kruglorotye; metodicheskoe rukovodstvo dlia biologicheskikh fakul'tetov gosudarstvennykh universitetov. 1963. 59 p. (MIRA 17:1)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

KUPERMAN, Faina Mikhaylovna; DANIL'CHENKO, O.P., red.; GEORGIYEVA, G.I., tekhn. red.

[Characteristics of the individual development of plants depending on the conditions of the environment; light and plant development] Zakonomernosti individual'nogo razvitiia rastenii v zavisimosti ot uslovii vneshnei sredy; svet i razvitie rastenii. Lektsiia iz kursa "Biologiia razvitiia rastenii." Moskva, Izd-vo Mosk. univ., 1963. 102 p. (MIRA 17:2)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DVORYANKIN, Fedor Andreyevich; DANIL'CHENKO, G.I., red.

[Darwinism and the history of evolutionary theories; advice for instructors of biology departments in state universities] Darvinizm i istoriia evoliutsionnykh uchenii; sovety prepodavateliam biologicheskikh fakul'tetov gosudarstvennykh universitetov. Moskva, Izd-vo Mosk. univ., 1964. 45 p. (MIRA 18:4)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

[illegible] Nikolayevich; [illegible], [illegible]; [illegible], red.

(Comprehensive laboratory manual on the [illegible] of the vertabrates; anatomical part) Bol'shoi praktikum po zoologii pozvonochnykh; anatomicheskaia chast'. Moskva, Izd-vo [illegible] univ. [illegible]

[illegible] 18:8)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

MAKSIMOVA, Valentina Fedorovna; VORONOV, A.G., prof., otv. red.; DANIL'CHENKO, O.P., red.

[Botanical geography with the fundamentals of general botany; methodological instructions for second year correspondence students of state university geography faculties] Botanicheskaia geografiia s osnovami obshchei botaniki; metodicheskie ukazaniia dlia studentov-zaochnikov II kursa geograficheskikh fakul'tetov gosudarstvennykh universitetov. Moskva, Izd-vo Mosk. univ., 19[illegible]. 36 p. [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, O.Ya., inzh. [deceased]

Important condition for reducing the cost of production. Mashinostroitel' no.12:16-17 D '57. (MIRA 10:12)
(Manufactures--Costs)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, P. G.

PA 38T74

USSR/Medicine - Fish
Medicine - Taxonomy

Nov 1947

"Phylogenetic Relationship between Genera Palaeogadus and Merluccius," P. G. Danil'chenko, Paleontological Institute of the Academy of Sciences of the USSR, 3½ pp

"Dok Ak Nauk" Vol LVIII, No 4

Author gives results of his observations which led to conclusions that there were several phylogenetic relationships between two genera of fishes Palaeogadus and Merluccius. Submitted by Academician I. I. Shmal'gauzen, 22 Apr 1947.

38T74

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, P. G.

Danil'chenko, P. G.; Rozhdestvenskiy, P. G. - "Discovery of Fish in Melanite Formations of Eastern Carpathians," Priroda, No. 3, 1949.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

D[illegible], I. [illegible].

21542 [illegible], I. [illegible].

Mod merluccius v [illegible] [illegible].
Trudy [illegible]. In - [illegible] ([illegible]. nauk [illegible], [illegible], s. [illegible] - [illegible].
Bibliogr: s. 14[illegible].

[illegible]: Letopis' Zhurnal'nykh Statey, [illegible], [illegible], [illegible].

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

[illegible]

"Fossil [illegible] genitors of Contemporary [illegible]," V[illegible], No [illegible], [illegible] 1953

[illegible] two species of the [illegible] from the upper [illegible] and Spirialis [illegible] of the [illegible], one species of the fish Melanosus from [illegible] series of Predkarpatiye (Pre-Carpathia) (lower oligocene), [illegible] of the fish Striansia from the lower [illegible] of North [illegible]. The indicated forms can be referred to the family [illegible] in [illegible] of the presence of small weakly [illegible] caudal fins, thin caudal stalk, fine scales [illegible] the jaws. ([illegible], No 4, [illegible])

Sum. No. [illegible], 7 Oct [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, P.G.

A lower Mayko species of the genus Sardinella. Paleont. zhur. no.1: 95-97 '59. (MIRA 13:1)

1. Paleontologicheskiy institut Akademii nauk SSSR.
(Belaya Valley (Krasnodar Territory)--Herring, Fossil)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, P.G.; OBRUCHEV, D.V., ovt.red.; RAKOV, V.A., red.izd-va; MAKAGONOVA, I.A., tekhn.red.

[Bony fishes from Maikop deposits of the Caucasus] Kostistye ryby Maikopskikh otlozhenii Kavkaza. Moskva, Izd-vo Akad.nauk SSSR, 1960. 207 p. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, vol.78). (MIRA 13:11)

(Caucasus—Teleostei, Fossil)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, P.G.

Fishes of the Dabakhanka series in Georgia. Paleont.zhur. no.1: 111-126 '62. (MIRA 15:3)

1. Paleontologicheskiy institut AN SSSR.
(Tiflis region--Fishes, Fossil)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, Pavel Trofimovich 1902-1962 1964

CHEMICAL

DECEASED

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

DANIL'CHENKO, S.D., glavnyy inzhener depo.

Electromagnetic device used in pouring control samples. Zhel. dor.transp. 37 no.11:76 N '55. (MLRA 9:2)
(Metal castings)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

PRONIN, Mikhail Vasil'yevich; LEONT'YEVSKIY, Ye.S., retsenzent; DANIL'CHENKO, S.M., retsenzent; VOYTSEKHOVSKIY, V.I., red.; KAN, P.M., red. izd-va; BODROVA, V.A., tekhn. red.

[Prolonging the life of the 3D6 engine]Udlinenie sroka sluzhby dvigatelia 3D6; opyt Kievskogo sudostroitel'no-sudoremontnogo zavoda. Moskva, Izd-vo "Rechnoi transport," 1962. 62 p. (MIRA 16:1)

(Naval diesel engines)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

1. [illegible]CHENKO, V.

2. USSR (600)

4. Tractors.

7. Electric tractor [illegible]uels for irrigation [illegible] No. [illegible], 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001109

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00110

TORBAN, S.S., kand.tekhn.nauk; DANIL'CHENKO, V.N., inzh.-mekhanik

Testing and modernizing machines used in hoisting drift nets. (MIRA 14:6)
Trudy VNIRO 39:11-22 '59.
(Fishing—Implements and appliances)

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TORBAN, S.S., kand.tekhn.nauk; DANIL'CHENKO, V.N., inzh.-mekhanik

Investigating and developing the design of machinery for shaking fish out of drift nets. Trudy VNIRO 39:23-42 '59. (MIRA 14:6)
(Fishing—Implements and appliances)

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Experimental installation for investigating the process of ice boring. Trudy VNIRO 39:87-90 '59. (MIRA 14:6)
(Ice) (Boring)

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Some parameters of the process of ice boring. Trudy VNIRO 39:91-98 '59. (MIRA 14:6)

(Ice) (Boring)

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L 4505-66

ACCESSION NR: AP5023282 UR/0302/65/000/003/0061/0063
681.20

96
B

AUTHOR: Danil'chenko, V. P.

TITLE: Electrohydraulic converter

SOURCE: Avtomatika i priborostroyeniya, no. 3, 1965, 61-63

TOPIC TAGS: electrohydraulic effect, valve, hydraulic device, automatic regulation

ABSTRACT: The electrohydraulic converter developed by the OSKB of the Khar'kov KIP factory is intended for the conversion of the signal of mismatch of the output converter of the primary device and the ferrodynamic system, into the displacement of a valve controlling the hydraulic actuating mechanism. The converter secures an astatic regulation and has a region within which the velocity of the actuating mechanism is proportional to the magnitude of the input signal. The article discusses the operating principles and design of the converter and explains the design of the distributor valve. The device needs no more than 70 w from a 127-v 50-cps network; time for the full valve movement is 7 sec; the zone of converter insensitivity does not exceed 1.5% of the maximum mismatch signal; oil consumption is at least 9 liter/min, oil pressure ahead of the converter is 6 to

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12 kg/cm^2, and total weight is 13 kg. The device was successfully tested and is being produced commercially since 1964. Orig. art. has: 3 formulas, 2 figures, and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: EE, IE

NO REF SOV: 002 OTHER: 000

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L 20887-66 EWT(1)/ESS-2/EIC(f)/EWG(m) AT

ACC NR: AP6002524 SOURCE CODE: UR/0286/65/000/023/0031/0032

AUTHORS: Shikhin, A. Ya.; Danil'chenko, V. P.; Sil'vanskiy, I. V.

ORG: none

TITLE: Direct current source for feeding a permeameter. Class 21, No. 176629

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 31-32

TOPIC TAGS: permeameter, permanent magnet, testing device, test equipment, test method, automation

ABSTRACT: This Author Certificate presents a direct current source for feeding a permeameter used for testing permanent materials. The unit is designed to automate the testing process, and contains a direct current generator. The excitation winding of this DC generator is fed from an amplidyne with a fixed negative feedback of the generator voltage (see Fig. 1). The unit also contains a master circular potentiometer with a drive from a nonreversible electric motor with a regulated speed for the purpose of changing the shape and frequency of the test voltage. The unit has a circular rheostat with a sliding contact drive from the nonreversible motor. A push-pull magnetic amplifier provides synchronization

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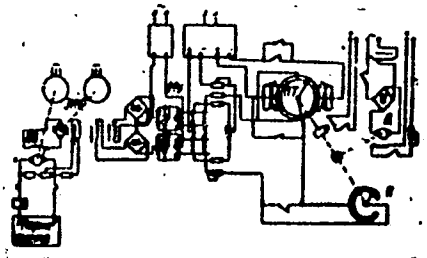
Fig. 1. Г - direct current generator;
ОВ - generator excitation winding;
ЭМУ - amplidyne; ПТ - master circular potentiometer;
Д - nonreversible electric motor;
R - circular rheostat;
МУ - magnetic amplifier.



of the input of the amplidyne with the output of the master circular potentiometer. A step scanner is used to insure the specified test program. Orig. art. has: 1 figure.

SUB CODE: 14, 09/ SUBM DATE: 08Apr64

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S/081/61/000/021/032/094
B101/B147

AUTHORS: Kosmach, V. V., Danil'chenko, V. R., Dudko, A. N.

TITLE: Automatic sampler for cement

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 251, abstract 21I84 (Tsement, no. 1, 1961, 27 - 28)

TEXT: An automatic apparatus for taking cement samples from the mill was installed at the zementnyy zavod "Oktyabr'" ("Oktyabr'" Cement Plant). It has a master clock giving every five minutes a pulse for switching on the slave (S). The latter pushes the sampler into the mill flow, holds it there for 5 sec to be filled with material, withdraws it, and fills the sample into a special small bin. The S used is the column of the КДУ (KDU) remote-control apparatus of the electronic control of the ВТИ (VTI) system. It is pointed out that this unit may be also used for taking samples of other powdered materials. [Abstracter's note: Complete translation.]

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