"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKOS, Gizela, dr.; MAGOS, Laszlo, dr.; KOVACS, Gyorgy, dr.

Arterial changes accompanying vibration trauma. I. The use of the usual methods of studying peripheral vascular disease in the diagnosis of vibration-induced Raynaud's disease. Orv. hetil. 95 no.46:1262-1266 14 Nov 54.

1. Az Istvan Korhaz I. sz. Belosztalyanak (fonvos: Bugar-Meszaros Karoly dr.) es az Orszagos Munkaegeszsegugyi Intezet (igazgato: Timar Miklos dr.) kozlemenye.
(RAYNAUD'S DISEASE, diag.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKOS, Gizela, dr.; BARSY, Gyula, dr.; MAGOS, Laszlo, dr. RENKO, Denesne; KOVACS, Gyorgy, dr.

Arterial changes accompanying trauma. II. The frequency of the condition and capillary microscopic studies among steel-cast workers. Orv. hetil. 95 no.48:1317-1321 28 Nov 54.

1. Az Istvan Korhaz I. Belosztalyanak (foorvos: Bugar-Meszaros Karoly dr.) es az Orszagos Munkaegeszsegugyi Intezetenek (igazgato: Timar Miklos dr.) kozlemenye.

(RAYNAUD'S DISEASE
occup.)
(OCCUPATIONAL DISEASES
Raynaud's dis.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

MAGOS, L.,; OKOS, O.

Raynaud's syndrome and cold dilatation. Acta med. hung. 7 no.3-4: 323-313 1955.

1. State institute for labour hygiene and 1st department of internal medicine, Istvan Hospital, Budapest.
(RAYNAUD'S DISEASE, manifestations,
vasc. reactions to cold)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

BUGAR-MESZAROS, Karoly, dr.; OKOS, Gizella, dr.

The peripheral circulation in hypotension. Magy. belorv. arch. 9 no.1:30-32 Feb 56.

1. Az Istvan korhaz I. belosztalyanak (foorvos: Bugar-Meszaros, Karoly dr.) kozl.
(HYPOTENSION, physiol.
peripheral circ. (Hun))
(BLOOD CIRCULATION
peripheral, in hypotension. (Hun))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

MAGOS, L.; OKOS, G.

Vibration lesion causing Raynaud's disease. Acta med. hung. 9 no.4:321-335 1956.

1. Staatliches Institut fur Arbeitshygiene und I. Innere Abteilung des Istvan-Krankenhauses, Budapest.
(VIBRATIONS, inj. eff.
Raynaud's dis. in indust. workers (Ger))
(RAYNAUD'S DISEASE, etiol. & pathogen.
vibrations, in indust. workers (Ger))
(OCCUPATIONAL DISEASES
Raynaud's dis. caused by vibrations in indust. workers. (Ger))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

HUNGARY/Pharmacology - Toxicology - General Problems. V

Abs Jour : Ref Zhur Biol., No 4, 1959, 18442

Author : Okos, G., Sas, V.
Inst : -
Title : The Pharmacological Investigation of the Vessels of the Placenta

Orig Pub : Acta med. Acad. sci. hung., 1958, 11, No 2, 181-186

Abstract : The influence of sodium nitrite, peremin, neopevitone, papaverin, acetyl choline, prostigmine (prozerin), neotonocain, gidergine, diaphylline, priscole, peddiomide (pantamine), adrenalin, glanduitrine, ergama and histamine of the vessels of the human planenta was studied. The placenta was taken immediately after delivery. Each experiment lasted not longer than 30-40 min. As a nutritive medium physiological solution warmed to body temperature was utilized, th which heparin was added at the beginning of rinsing. The fluid was passed

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HUNGARY/Pharmacology - Toxicology - General Problems. V

Abs Jour : Ref Zhur Biol., No 4, 1959, 18442

through under a pressure of 60-100 mm mercury column. The changes in the lumen of the arterioles was measured with an occular micrometer. The vessles of the placenta reacted to vessel-dilating and vessel-constricting substances in the same way as do other vessels of the organism. The assumption that the walls of placenta vessels contain nerve endings is expressed.
Bibliography, 13 items.

Card 2/2

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Data on the pathological picture of endoangiitis (thromboangiitis) obliterans based on observations on 300 patients. Orv. hetil. 90 no.47: 1627-1633 23 Nov 58.

1. A Fovarosi Istvan Korhaz I. Belosztalyanak (foorvos: Bugar-Meszaros Karoly dr.) kozlemenye.
(THROMBOANGIITIS OBLITERANS, statist.
clin. statist. (Hun))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

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BUGAR-MESZAROS, K.; OKOS, G.

Anticoaguland therapy of phlebothrombosis and thrombophlebitis. Acta med.hung.16 no.3:313-317 '60.

1. 1st Department of Medicine (Head: K.Bugar-Meszaros), Istvan Hospital, Budapest.
(ANTICOAGULANTS ther)
(THROMBOPHLEBITIS ther)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

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OKOS, Gizella, dr.

Clinical experiences with the new Hungarian-made anticoagulant: syncumar. Orv. hetil. 101 no.13:452-455 27 Mr '60.

1. Budapesti Istvan Korhaz, I. Belosztaly.
(COUMATINS ther.)

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BUGAR-MESZAROS, Karoly, dr.; OKOS, Gizella, dr.

Anticoagulant therapy of phlebothrombosis and thrombophlebitis. Orv.hetil. 102 no.1:14-16 1 Ja '61.

1. Fovarosi Istvan Korhaz, I. Belosztaly.
(THROMBOPHLEBITIS ther)
(ANTICOAGULANTS ther)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKOS, Gizella, dr.

Oscillometric studies in childhood. Orv. hetil. 102 no.22:1017-1021 28 My '61.

1. Budapesti Orvostudomanyi Egyetem, IV sz. Belklinika es a Fovarosi Istvan Korhaz I Belosztalya.

(OSCILLOMETRY in inf & child)

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BARTA, L.; BUGAR-MESZAROS, K.; OKOS, Gizella; ROSTA, J.

On the effect of diabetes mellitus in childhood on the vascular system. Acta paediat. acad. sci. Hung. 3 no.1:71-79 '62.

1. I. Kinderklinik (Direktor: Prof. Dr.P. Gegesi Kiss) der Medizinischen Universitat Budapest, I. Medizinische Abteilung (Chefarzt: Dr. K. Bugar-Meszaros) des Hauptstadtischen Istvan-Krankenhauses, und IV. Medizinische Klinik (Direktor: Prof. Dr. Gy. Gottsegen) der Medizinischen Universitat Budapest.

(DIABETES MELLITUS in inf & child) (OSCILLOMETRY in inf & child)
(BLOOD VESSELS pathology)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

BARTA, Lajos, dr.; OKOS, Gizella, dr.

Microscopic examinations of the capillaries in juvenile diabetes. Gyermekgyogyaszat 14 no.1:1-4 Ja '62.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Gyermekklinika (Igazgato: Gegesi Kiss Pal dr., akademikus, egyetemi tanar) es a IV. sz. Belklinika (Igazgato: Gottsegen Gyorgy dr., egyetemi tanar) kozlemenye.
(DIABETES MELLITUS, JUVENILE) (CAPILLARIES)
(BLOOD FLOW VELOCITY) (HYPOGLYCEMIA)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

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Role of sclerosing therapy in the development of phlebothrombosis. Orv. hetil. 103 no.3:107-110 21 Ja '62.

1. Budapesti Orvostudomanyi Egyeten, IV Belklinika es Istvan-korhaz I Belosztaly.

(SCLEROSING SOLUTIONS toxicol)
(THROMBOPHLEBITIS etiol)

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BANTA, Lajos, dr.; BUGAR-MESZAROS, Karoly, dr.; OKOS, Gizella, dr.; ROSTA, Janos, dr.

Vascular examinations on diabetic children. Orv. hetil. 103 no.40: 1883-1886 7 O '62.

1. Budapesti Orvostudomanyi Egyetem, I. Gyermekklinika, Fovarosi Istvan Korhaz, I. Belosztaly es Budapesti Orvostudomanyi Egyetem, IV. Belklinika.
(DIABETES MELLITUS, JUVENILE) (CAPILLARIES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

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OKOVANTSEV, L.A.; PETROV, A.Y.

Electric centralization of station switched into dispatcher control. Avtom.,telem.i sviaz' no.6:36-38 Je '57. (MLRA 10:7)

1. Rukovoditel' peredvizhnoy laboratorii signalizatsii i svyazi Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo stroitel'stva (for Okovantsev).
2. Starshiy nauchnyy sotrudnik laboratorii (for Petrov).
(Railroads--Communication systems)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

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OKOVANTSEV, L.A., inzh.

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(Railroads--Signaling--Block systems)
(Transistors)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

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(Railroads--Train dispatching)

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OKOVANTSEV, L.A., inzh.

Remote control of the centralized traffic control systems in railroad districts. Avtom., telem. i sviaz' 5 no.12:8-10 D '61. (MIRA 14:12)

(Railroads--Signaling)

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YEVGEN'YEV, I.Ye., kand.tekhn.nauk; OKOVITYY, A.L., inzh.

Simple method for constructing banks in marshlands. Avt.dor. 26 no.10:14-15 O '63. (MIRA 16:11)

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DREWS, Roman; OKOWA, H.

Differential diagnosis of tumors in the right cardiophrenic angle.
Polski przegl. chir. 30 no.5:580-582 May 58.
(THORAX, neoplasms,
differ. diag. of tumors in right cardiophrenic angle (Pol))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

POLAND

DOBEK, Jan and OKOWA, Halina; Department of Radiology (Zakład Radiologii), AM [Akademia Medyczna, Medical Academy] in Poznan (Director: Prof. Dr. med. B. GLADYSZ)

"X-ray Picture of Digestive Tract in Patients with Virus Hepatitis."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 31, 29 Jul 63, pp 1142-1146

Abstract: [Authors' English summary] X rays of the digestive tract of (170) patients with virus hepatitis revealed delayed passage of barium contrast to duodenum, especially in first and last phases of evaluation. Signs of hypotonia of duodenal and intestinal wall and weak peristaltic and mixing movements were noted in 30 per cent of the cases, and none for the terminal and iliac parts. Irregular concentrations of contrast were noted in large intestine. All changes disappeared within a year in control examinations. There are ten references: one each Polish and English, 2 French, and 6 in German.

1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKOWA, Halina

Role of tomographic studies in fractures of the femoral neck. Poznan. tow. przyjac. nauk wydz. lek. 31:95-121 '65

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKRAINETS, P.M.

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 2, p 224 (USSR) SOV/137-59-2-3869

AUTHORS: Kozyrskiy, Kononenko, Okrainets [Kozyrs'kyy, H. Ya., Kononenko, V. A., Okrainets', P.M.]

TITLE: A Study of Structural Changes During Creep of Nickel (Izucheniye izmeneniy struktury nikelya pri polzuchesti) in Ukrainian

PERIODICAL: Ukr. fiz. zh., 1958, Vol 3, Nr 3 pp 391-396

ABSTRACT: A report on a novel X-ray diffraction method of studying structural changes occurring in individual grains of large crystal materials in the process of creep. It is shown that crushing of grains in the first stage begins almost immediately after the loading of the specimen. The crushing of grains and an increase in the angles of their sub grain structure is particularly intense in the beginning of a test. These processes progress more rapidly in large grains than in small grains. In the second stage, the deformation proceeds primarily by a mechanism of viscous flow along the grain boundaries. In the process the grains themselves are rotated by ~ 30° with respect to each other. Owing to the movement of the grains the surface of the specimen acquires a step-like appearance and cracks are formed within the

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

A Study of Structural Changes During Creep of Nickel SOV/137-59-2-3860

specimen; it is along these cracks that the failure of the specimen occurs

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Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

SOV/24-58-8-15/37

AUTHORS: Kozyrskiy, G. Ya., Kononenko, V. A. and Okrainets, P.N. (Kiyev)

TITLE: Investigation of the Structural Changes in a Nickel-Chromium Alloy During Creep (Issledovaniye strukturnykh izmeneniy v nikel'-khromovom splave pri polzuchesti)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 8, pp 90-92 (USSR)

ABSTRACT: The structural changes at elevated temperatures and pressures which lead to considerable changes in the physical and mechanical properties have been investigated by various authors (Refs.1-4). In this paper the results are described of investigations of structural changes which take place in a Ni-Cr alloy during creep. The investigations were carried out mainly by X-ray structural and metallographic analyses on specimens of an alloy containing 80.2% Ni and 19.8% Cr. The microstructure in the original state contained equiaxial fine grains, the average diameter of which varied between 0.2 and 0.3 mm. X-ray investigations have shown that the alloy is in the metastable state with a sub-structure which is characteristic for this state and that Type II

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

SOV/24-58-8-15/37

Investigation of the Structural Changes in a Nickel-Chromium Alloy During Creep

and Type III distortions are present. Three series of specimens were produced, the first was annealed at 700°C for 4.8 and 16 hours. However, the X-ray patterns did not indicate any appreciable change in the state of the alloy. Additional annealing at 800°C for two hours has also not resulted in any appreciable changes in the X-ray patterns, the hardness remained the same as prior to annealing. The second series of specimens were annealed in evacuated quartz ampules at 1170°C for 64 hours; the grains grew to an average size of 0.5 to 0.6 mm, lattice distortions ceased to exist, the hardness decreased and an intensively developed twining structure was observed. Etching revealed only the twin boundaries and clearly pronounced fine grain boundaries. The third series of specimens were investigated for creep without any preliminary heat treatment on an MP-4 test machine at 700°C with a load of 10 kg/mm^2; specimens of 5 mm dia. and 50 mm length were tested. To carry out X-ray structural and micro-structural investigations, the creep tests were

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SOV/24-58-8-15/37

Investigation of the Structural Changes in a Nickel-Chromium Alloy During Creep

discontinued and then restarted. Creep curves for the first and second series of specimens are graphed in Fig.1. In Fig.2 the change in the hardness, the creep speed and the width of the (311) line are graphed for the first series of specimens as a function of time. In Fig.3 the changes of the creep speed and of the hardness as a function of time are graphed for the second series of specimens. In Fig.4 X-ray patterns are reproduced for the specimens of the first series after annealing for 16 hours at 700°C and additionally for 2 hours at 800°C followed by creep tests for zero, 4, 8, 35 and 70 hours. On the basis of the obtained results the following conclusions are arrived at:

1. During the first stage of creep of the alloy, which is in the metastable state, processes of perfection of the crystal lattice proceed faster than in the case of the alloy being exposed solely to the effect of the temperature.

2. The creep speed is determined not only by the temperature and the load at which the creep proceeds but

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SOV/24-58-8-15/37

Investigation of the Structural Changes in a Nickel-Chromium Alloy During Creep

also by the state of the deformed alloy. The creep speed proceeds considerably faster in alloys which are in the metastable state and have a higher strength at lower temperatures.
There are 4 figures and 6 references, 4 of which are Soviet, 2 English.

ASSOCIATION: Institut metallofiziki Akademii Nauk Ukr.SSR (Institute of Metal Physics, Ac.Sc., Ukrainian SSR)

SUBMITTED: February 28, 1958

1. Chromium-nickel alloys--Creep 2. Chromium-nickel alloys--Structural analysis 3. Chromium-nickel alloys--X-ray analysis 4. Chromium-nickel alloys--Temperature factors

Card 4/4

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

UKRAINETS, I.M.

18(4,7); 25(1) PHASE I BOOK EXPLOITATION SOV/2306

Akademiya nauk Ukrainskoy SSR. Institut metallofiziki

Voprosy fiziki metallov i metallovedeniya (Problems in the Physics of Metals and Metallography) Kiyev, Izdo-vo AN Ukrainskiy SSR, 1959. (Series: Its: Sbornik nauchnykh rabot, Nr 9) Errata slip inserted. 3,000 copies printed.

Ed. of Publishing House: V.L. Shkurko; Tech. Ed.: M.I. Yefimova; Editorial Board: V.N. Svechnikov, Academician, Academy of Sciences, Ukrainian SSR (Resp. Ed.); S.D. Gertsriken, Doctor of Physical and Mathematical Sciences; and I.Ya. Dekhtyar, Doctor of Technical Sciences.

PURPOSE: This collection of articles is intended for scientific workers, aspirants, and engineers in the fields of the physics of metals, metallography, and metallurgy. It may also be useful to students of advanced courses in metallurgical and physical faculties.

COVERAGE: This collection of articles deals with the following

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

topics: effect of high-speed heating, heat treatment, deformations, and crystallization conditions on phase transformations, structures, and properties of metals and alloys; the effect of additional alloying components on volumetric and intercrystalline diffusion in alloys; and the effect of repeated quench hardening and radioactive and ultrasonic treatment on the physical properties of alloys. No personalities are mentioned. References follow several of the articles.

TABLE OF CONTENTS:

Kurdyumov, G.V., and L.G. Khandros. Transformation of Fine Particles of Fe-Ni Alloys to Martensite 3
Transformations of filings of two alloys (33 percent Ni and 28.6 percent Ni) annealed in quartz ampoules were studied.

Khandros, L.G. Changes in the Austenitic State of Manganese Steel During Transformation to Martensite 7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

The investigation was conducted on samples, 1mm. in diameter and 10mm. in length, of steels of the following composition: 1.4 percent carbon and 4.2 or 3.6 percent manganese. The samples were heated to 1000°C. and water quenched.

Kozyrskiy, G.Ya., V.A. Kononenko, and P.N. Okrainets. Study of Structural Changes in Nickel During Creep Based on Reflections of Individual Grains 12

This method of studying structural changes is based on the fact that X-ray patterns of annealed specimens with perfect crystalline structures show sharp reflections of grains. From the deformation of the grains, conclusions on structural changes in the metal can be drawn. Special features of structural changes in the first and second stages of creep of nickel were discovered through this method.

Lysak, L.I., and Yu.P. Sogrishin. Effect of Plastic Deformation on Internal Stresses in Metal 22

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

Changes in the substructure of metals due to shifting from statical to vibratory loading were studied. Experiments in which cylindrical specimens of the aluminum alloy, AMTsM, were flattened, statically and with vibrations, between plates at room temperature are described.

Lysak, L.I., and L.V. Tikhonov. Changes in the Crystalline Structure of Columbium Subjected to Various Types of Deformation 27

This article deals with a study of changes which take place in certain characteristics of columbium when it is subjected to different types of deformation. Such changes include distortions of crystal lattices of the second and third types, distortion of the sizes of coherent zones, and changes in texture and strength accompanying varying methods and degrees of hardening.

Larikov, L.N. Problem of Phase Transformations in Plastically Deformed Metals and Alloys 36

The author discusses processes taking place in phases

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

which were in a state of equilibrium or quasi-equilibrium before plastic deformation. Also discussed are processes occurring during the deformation of a metastable phase.

Larikov, L.N., and I.G. Ptlotskiy. Problem of the Effect of Ultrasonics on Phase Transformations of Carbide Metals and Alloys 50

This article presents a study of the effect of ultrasonic treatment on the aging process of duralumin and an alloy composed of lead and o percent tin. Data obtained are presented in diagrams.

Gridnev, V.N. Effect of High-speed Heating on the Structure and Properties of Steel 54

The author describes an experimental investigation in which special devices were used for the simultaneous recording of time, temperature, elongation, and changes of voltage and amperage. Data presented in the article were obtained at the Laboratory for Heat Treatment, Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute), and at the Institut metallofiziki, AN USSR

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(Institute for the Physics of Metals, Academy of Sciences, UkrSSR).

Gridnev, V.N. and V.I. Trefilov. Metastable Transformations in Eutectic Cu-Al Alloys 68

The mechanism and kinetics of phase transformations are discussed in this paper. Simultaneous motion picture recording with oscillographic measuring of temperature made possible the accurate determination of all parameters investigated. The technique used in the experiment is described, and transformations are presented in the form of photographs and diagrams.

Gridnev, V.N., V.I. Trefilov, and A.S. Drachinskiy. Change in Mechanical Properties of Ti-Fe Alloys Due to Heat Treatment 82

Low-alloy Ti-Fe samples (2.9mm. diameter, 22mm. long), sintered, forged, and machined, were used. Results are shown in diagrams.

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Butylenko, A.K., V.N. Gridnev, and V.I. Trefilov. Changes in Structure and Properties of Powder Titanium During Vacuum Rolling 89

Samples of titanium IMP-1, made at the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy) and rolled in the laboratory vacuum mill there, were subjected to micro- and X-ray structural analysis and mechanical testing at room temperature. Results are discussed and conclusions drawn.

Gridnev, V.N., and V.T. Cherepin. Phase Transformations in Carbon-free Iron Alloys During Electric Heating 98

This article presents a study of changes from alpha to gamma iron, dilatation, the critical point, and the Curie point for various iron base alloys (Fe-Cu, Fe-W, Fe-Ti, Fe-Ni, Fe-Cr, and Fe-Si) in the annealed as well as the quenched state at varying rates of temperature change (500 to 4000°C per second).

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Svechnikov, V.N., and A.Ts. Spector. Investigation of Transformations in the Solid State of Cobalt-rich Co-Cr Alloys 105

Changes in cobalt-base solid solutions and a more precise determination of phase ranges in equilibrium diagrams of the Co-Cr system are investigated. The microstructure of alloy samples is discussed.

Svechnikov, V.N., Yu.A. Kocherzhinskiy, Ye.Ye. Maystrenko, V.M. Pan, and A.K. Shurin. Investigation of the Cr-Nb-V Alloy System 120

Constitution diagrams and microstructures of various binary and ternary alloys were investigated. Changes of hardness with changes of temperature are shown.

Lesnik, A.G., and G.V. Khar'kova. Displacement of Equilibrium Curves of α- and γ- phases in the Fe-Cr Alloy System Due to Prolonged High-temperature Heating of the γ- phase 133

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Electrolytic chromium and iron were used for making the alloys. Spiral samples, 20mm. long, were heated in a vacuum (10^{-4}mm. Hg), and electrical resistivity was measured. The drop of resistivity at the $\alpha \rightarrow \beta$ transformation is discussed.

Tikhonova, Ye. A. Anisotropy in the Diffusion in Cu-Au Alloys Undergoing Ordering 139

The calculation of diffusion coefficients for alloys undergoing ordering is made analytically by the method of mean energies and by the "configuration method."

Gertsriken, S.D., and M.P. Pryanishnikov. Investigation of Volumetric Diffusion of Iron in Alloys 147

Alloys composed of Fe + 0.27 percent Al, and Fe + 0.39 percent Al, were investigated. Samples, 10 x 15 x 2.5mm., were deformed and annealed. The mean grain size (0.5 to 1mm.) did not change after diffusion annealing (770 to 1250°C). The polished surfaces of the samples were coated with radioactive iron (1 to 2 microns thick). The depth of the diffusion layer (300 to [illegible] microns) varied with temperature and

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time of annealing.

Gertsriken, S.D., T.K. Yatsenko, and L.F. Slastnikova. Investigation of Diffusion of Cobalt and Iron Along Grain Boundaries of Cobalt, Nickel, and Iron 154

The absolute values of diffusion coefficients for Co→Co, Co→Ni, Co→Fe, Fe→Fe, and Fe→Ni, i.e., diffusion with regard to time and temperature of annealing, were obtained for grain-boundary diffusion and volumetric diffusion. The relationship between coefficients for both diffusions is discussed.

Dekhtyar, I.Ya., and E.G. Madatova. Effect of Quenching on Some Physical Properties of Metals and Alloys 162

The article deals with the effect of repeated quenching on volume changes of metals (99.99 percent Ag, Au, and Pt,) and alloys (Pt + 10 percent Rh, Cu + 50 percent Au, brass, and $\alpha+\beta$-brass) and on the rate of decomposition of α-supersaturated solid solutions. The density of metastable

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dislocations in deformed alloys was determined.

Dekhtyar, I.Ya., S.D. Gertsriken, A.M. Shalayev, and N.P. Plotnikova. Effect of Irradiation on Some Physical Properties of the Ni_3Mn Alloy 173

The article discusses the influence of γ-irradiation on longitudinal galvanometric effect; on the lattice parameter of the Ni_3Mn Alloy (electrolytic Ni and 23 percent electrolytic Mn); and on the process of thermal ordering.

Polotskiy, I.G., and T.Ya. Beniyeva. Effect of Alloying and Heat Treatment on the Elastic Properties of Nickel Alloys 178

The results of experimental investigation of the dependence of the modulus of elasticity on the composition and temperature of Ni-Cr and Ni-Ti alloys are presented. The effect of heat treatment on elastic properties of these alloys is discussed.

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Ovsiyenko, D.Ye., and Ye.I. Sosnina. Influence of Crystallization Conditions on the Mosaic Structure of Aluminum Crystals 185

The article reviews work done previously on investigations of the mosaic structure of cast aluminum (99.996 percent Al) crystals. The investigation takes the conditions of grain growth and eventual admixtures into consideration.

Lashko, A.S., and D.N. Darlikov. Calculation of the Function of Distribution of Atoms in a Fluid 198

The complete sequence of the trigonometric method for calculating the function of distribution of atoms is presented. The intensity curve of dispersed X-rays of liquid mercury is used as an example.

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PHASE I BOOK EXPLOITATION SOV/4177

Akademiya nauk Ukrainskoy SSR. Institut metallofiziki

Voprosy fiziki metallov i metallovedeniya (Problems in the Physics of Metals and Metallography) Kiyev, Izd-vo AN USSR, 1959. 215 p. (Series: Its: Sbornik nauchnykh rabot, no. 10) 3,000 copies printed.

Ed. of Publishing House: O.M. Pechkovskaya; Tech. Ed.: N.A. Buniy; Editorial Board: V.N. Svechnikov, Academician, Academy of Sciences UkrSSR (Resp. Ed.), S.D. Gertsriken, Doctor of Physics and Mathematics, and I.Ya. Dekhtyar, Doctor of Technical Sciences.

PURPOSE: This collection of articles is intended for scientific workers, aspirants and engineers working in metal physics, metallography and metallurgy, and for students in advanced courses of metallurgy and physics departments.

COVERAGE: The collection of articles gives the results of an investigation of the effect of high heating rates, thermal treatment, deformation and crystallization conditions on the phase transformations, structure and properties of metals and alloys, and of the effect of alloying additives on volume and intergranular

Problems in the Physics of Metals and Metallography SOV/4177

diffusion in alloys, as well as the effect of repeated tempering by ultrasound irradiation on the physical properties of alloys. There is also a description of an X-ray camera for studying the structure of the individual grains. The following personalities are mentioned: V. Rakaba, A.A. Smirnov, S.G. Glazunov, Ye.I. Morozov, V. Danilenko, L.M. Kikot', and I. Ya. Dekhtyar', Doctor of Technical Sciences. There is a bibliography of Soviet and non-Soviet references at the end of each article.

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KOZYRSKIY, G.Ya.; KONONENKO, V.A.; OKRAINETS, P.N.

Studying structural changes in nickel during creep by reflection from individual grains. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.9:12-21 '59. (MIRA 12:9)
(Nickel--Metallography) (Creep of metals)

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KOZYRSKIY, G.Ya.; KONOMENKO, V.A.; OKRAINETS, P.N.

Studying the mechanism of nickel deformation during creep by the reflection of individual grains. Issl. po zharopr. splav, 6:17-24 '60. (MIRA 13:9)

(Nickel—Metallography) (Creep of metals)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKRAINETS, P. N., Cand Phys-Math Sci -- "Study of structural ~~changes~~ activities in nickel during creep." Kiev, 1961. (Joint Acad Council of Insts of Math, Phys, and Metallophys, Acad Sci UkSSR) (KL, 8-61, 227)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

KOZYRSKIY, G.Ya.; OKRAINETS, P.N.

Effect of loading methods on nickel creep characteristics. Sbor. nauch.rab.Inst.metallofiz.AN URSR no.12:117-123 '61. (MIRA 14:8)
(Creep of nickel)

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AUTHORS: Kozyrskiy, G. Ya. and Okrainets, P. N.

TITLE: Changes in the fine structure of nickel grains during creep

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalofyzyky. Sbornik nauchnykh rabt, no. 13, 1961. Voprosy fiziki metallov i metallovedeniya, 118-132

TEXT: The authors studied creep in nickel, using a technique described earlier by them and V. A. Kononenko. This technique allows observation of deformation-caused broadening of X-ray reflections from individual grains in a polycrystal. Unfiltered Cu radiation was used and X-ray reflection intensities were measured with an МФ-4 (MF-4) microphotometer. Nickel of 99.99% purity was hot-rolled, electropolished to remove work-hardened layers, and annealed at 1100°C for 3 hours. After these treatments, grain dimensions were of the order of 0.3 mm. Creep tests were carried out at 350, 500, or 550°C under loads of 5 or 7.5 mg/mm^2 applied for 2 - 240 hours.

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These loads produced deformations ranging from 4 to 7%. Deformation and its time dependence, as measured by changes in the breadth of X-ray reflection lines, varied from grain to grain. In some grains the stresses were much greater than the average applied stress and plastic deformation in them was very intense. In other grains, relatively low stresses prevailed and, because of high test temperatures, crystal defects in these grains gradually healed up (local annealing). Such healing was represented by gradual narrowing of the X-ray reflection lines. Differences between individual grains were not static, but changed continuously throughout the tests. In some cases initial plastic deformation in a given grain was replaced by defect healing at a later stage. Towards the end of creep tests, it was usual to observe stress reduction by formation of cracks and voids along grain boundaries. Examination of polished sections in a metallurgical microscope showed fragmentation of blocks during creep, but this observation did not exclude the possibility of formation of internal stresses of second kind. There are 11 figures, 4 tables and 6 Soviet-bloc references.

SUBMITTED: September 1, 1960

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1003/1203

AUTHORS: Kozyrskiy G. Ya., and Okrainets, P. N.

TITLE: Structural changes in nickel during creep under conditions of interrupted loading

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalofyzyky. Sbornik nauchnykh rabot no. 14. Kiev, 1962. Voprosy fiziki metallov i metallovedeniya, 55-67

TEXT: X-ray, metallographic and mechanical investigations were carried out of the changes taking place in nickel under given conditions. The creep tests were carried out in vacuum which allowed the microstructural changes taking place on the surface of the samples to be investigated after each consecutive test. The relationships between the angles of the mosaic structure, the rotation of the grains, X-ray diffraction patterns, hardness and the degree of deformation imparted during the creep tests are given. The conclusions to be drawn from the data of this investigation are that the combined action of elevated temperature (500°C) and small loads (up to 3 kg/mm^2) leads to a further improvement of the crystalline lattice even after the sample has been subjected to high temperature annealing at 1100°C for 3 hours, and that the nature of creep and of structural changes caused by creep under interrupted loading are different from those taking place under continuous loading. In order to define the concrete mechanism of the influence of the structure of grains on the processes of creep, and on destruction caused by creep, further meticulous investigations are required. There are 9 figures and 3 tables.

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S/601/62/000/014/005/012
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AUTHORS: Kozyrskiy, G Ya, and Okrainets, P. N.

TITLE: The deformation of grain boundary zones in nickel during creep

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalofyzyky. Sbornik nauchnykh rabot no 14. Kiev, 1962. Voprosy fiziki metallov i metallovedeniya, 68-77

TEXT: The data given in the works of the same authors in "Voprosy fiziki metallov i metallovedeniya" (Problems of Physics of Metals and Metallurgy) no. 13, and no. 12, 1960, indicated a high degree of non-uniformity in the deformation of individual grains in polycrystalline nickel samples under various conditions of creep tests In the present work the deformations occurring in individual grains of pure nickel (99 99%) are investigated. The creep tests were carried out in vacuum under various conditions of loading with loads of up to 5 kg/mm^2, and at a temperature of 500°C resulting in a recrystallization of grains. The investigation of the resulting microstructures of the grains showed the formation of lines mostly in the vicinity of grain boundaries, though sometimes also occurring within the grains These lines are either non-uniform deformations occurring along the the slip planes when the stress applied is parallel to them, or cracks when the direction of application of the stress differs considerably from that of the slip planes. The fact that published data indicate the existence of similar structures in aluminum, in aluminum-magnesium alloys, and in nickel, in nickel-aluminum and in nickel-copper solid solutions is emphasized. There are 11 figures.

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AUTHORS: Kozyrskiy, G.Ya., Okrainets, P.N.

TITLE: Recrystallization of nickel during creep

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalofizyky. Sbornik nauchnykh rabot, no.16. Kiev, 1962. Voprosy fiziki metallov i metallovedeniya. 22-30

TEXT: Little published information is available on recrystallization during creep, and no experimental study has been made on the influence of recrystallization on the mechanism of creep or of creep failure. [illegible] consider that the effects are undoubtedly linked. They studied recrystallization during [illegible] at 350, 500, 550 and 900°C of 99.99% purity nickel. Specimens from which the work-hardened surface layers had been removed were vacuum annealed at [illegible] and cooled at 30°C/hour. Recrystallization was studied mainly by metallography. From the results the authors conclude that under creep-test conditions the recrystallization of nickel was governed mainly by the same factors which govern recrystallization when deformation and annealing are carried out separately, i.e. degree of deformation

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Recrystallization of nickel ...

temperature and duration of annealing. In creep the influence of these factors can be markedly different, e.g. the speed as well as the degree of deformation has an important effect. This is because at low speeds and high temperatures the lattice dist[illegible] are slight, since relaxation and recovery hinder their accu[illegible] and consequently the only effect is the development of [illegible]ation. At high speeds the distortions can accumulate and conditions become favorable for recrystallization, which occurs both by growth of new grains at the expense of the old and formation of new [illegible] grains. The present [illegible] did not provide enough evidence for assuming that any [illegible] recrystallization mechanism came into play under the creep test conditions. Recrystallization [illegible] the presence of plastically deformed grain regions. There are 7 figures.

SUBMITTED: January 26, 1962

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

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E111/E451

AUTHORS: Drynov, A.D., Kozyrskiy, G.Ya., Okrainets, P.N.

TITLE: Vacuum installation for the creep testing of metals

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut metalfizyky. Sbornik nauchnykh rabot. no.16. Kiev, 1962. Voprosy fiziki metallov i metallovedeniya. 194-197

TEXT: Vacuum creep-testing gives useful results which are more amenable to analysis. The installation is described and shown in the figure where 1 is a massive metal plate, 4 is a cylindrical hood 500 mm diameter by 700 mm tall, raised by the winch 5. The working pressure in the hood is 10-3 mm Hg. The top end of the specimen is supported by the massive columns 2, while the bottom is loaded by a lever with a 5:1 ratio. The lever is aligned either by a movable support adjusted by the worm gear 8 and the contact-relay 9, or manually. Either constant or smoothly-varying loading is possible. The specimen holder 7 (enlarged view inset) is designed for frequent removal without damage. The indicator 13 shows elongation, its readings being calibrated from marks on the specimen. For convenience the

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Vacuum installation ...

furnace is divided, one half being attached to the adjustable support 3, the other removable. The heater is similarly divided and each half is supplied with up to 12 V. Thermal insulation is by radiation shields, giving very low thermal inertia and a maximum working temperature of 1000°C. Specimen temperature is measured with three thermocouples 11, the junctions being pressed against the specimen by a tungsten spring (enlarged view inset). A magnetic-amplifier temperature controller is used, which will be described in a further communication; the pick-up of the controller is situated at 10. There is 1 figure.

SUBMITTED: January 26, 1962

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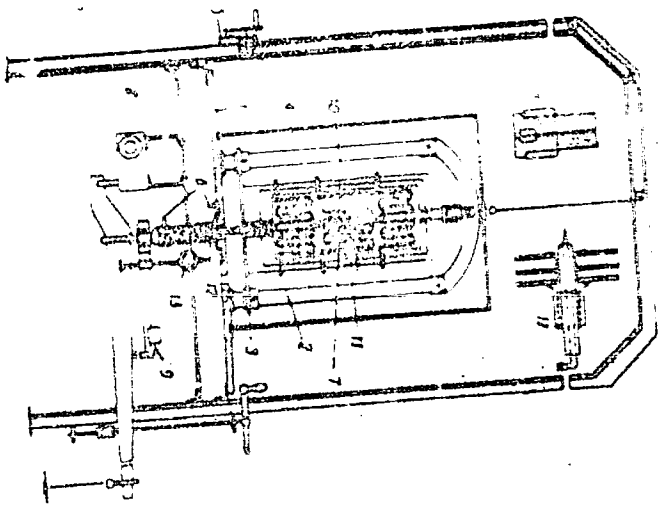
Vacuum installation ...



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KOZYRSKIY, G. Ia.; OKRAINETS, P.N.

Polygonization in nickel during creep. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.18:74-82 '64 (MIRA 17:8)

Deformation and structural changes in nickel during an even application of load. Ibid.:83-89

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ACCESSION NR: AT5008870

AUTHOR: Kozyrskiy, G.Ya., Okrainets, P.N.; Petrunin, G.A.

TITLE: Characteristics of nickel structures with high creep resistance

SOURCE: AN UkrSSR. Institut metallofiziki. Sbornik nauchnykh trudov, no. 20, 1963. Voprosy fiziki metallov i metallovedeniya (Problems in the physics of metals and metallurgy), 42-51

TOPIC TAGS: nickel structure, creep resistance, nickel creep, nickel heat treatment, plastic deformation, strain hardening

ABSTRACT: The aim of this study was twofold: (1) to study the change in the structure of nickel during creep at 700C from the original state after high-temperature annealing and (2) to study the change in structure after a preliminary cold deformation and its influence on the structural changes in subsequent creep tests, since such data are necessary for the determination of the nature of structural states which promote an increase in deformation resistance and in the life of metals during creep. Both sets of nickel samples were examined by x-ray diffraction in their original state (annealing at 1100C for 3 hrs). The data show that the influence of preliminary cold deformation

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the main creep characteristics observed in mechanical creep tests is determined [illegible] difference in the original structural states. Data on the disorientation and fragm[illegible] in the grains indicate that cold plastic deformation is distributed more uniformly [illegible] polycrystals than hot deformation, particularly in creep. The optimum substru[illegible] characterized by the greatest possible hardening which does not cause the dev[illegible] of recrystallization in the course of creep tests. The initial substructure of the m[illegible] determines the substructure of the steady stage of creep and thus the deformation [illegible] and the duration of this stage. Orig. art. has: 9 figures and 1 table.

ASSOCIATION: Institut metallofiziki, AN Ukr SSR (Institute of the Physics of [illegible] AN UkrSSR)

SUBMITTED: 25Mar64 ENCL: 00 SUB CODE: MM

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OKRAINSKIY, Moisey Abramovich; SNETKOV, Vladimir Dmitriyevich; KIRILLOV, L.N., inzhener-polkovnik, redaktor; SOKOLOVA, O.F., tekhnicheskiy redaktor

[Principal measurements of telephone channels] Osnovnye izmereniia telefonnykh kanalov. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956. 133 p. (MLRA 9:7)
(Telephone) (Electric measurements)

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OKRAJNOV, P.

Accelerated topographic preparation of artillery, p. 31

VOJNI GLASNIK (Jugoslavenska narodna armija) Beograd, Yugoslavia.
Vol. 12, no. 1, Jan 1958

Monthly List of East European Accessions EEAI LC, Vol. 8, no. 6, June 1959
Uncla.

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OKRAK, Josef, ing.

Circular segment for measuring the rock pressure in mines.
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OKRAK, Jozef, Inz. (Prievidza)

Results of the measurement of rock pressure effects in the gallery above which coal was mined in the Mozrokamenske Coal Mines. Uhli 6 no.9:303-309 S '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKRASA, E.

Trends in the progress of the production of electric cables from the point of the needs and developmental tedencies of Polish electric-power engineering. P 3

BIULETYN KABLOWY (Centralne Biuro Konstrukcji Kablowych) Oxarow k Warszawy Vol. 2, no. 1, Feb. 1958

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959

Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

8 (3) POL/24-60-1-2/20

AUTHOR: Okrasa, Edward, Graduate Engineer

TITLE: For Progress in Design and Installation of Cable Accessories.

PERIODICAL: Wiadomości Elektrotechniczne, 1960, Nr 1, pp 4 - 6

ABSTRACT: The author is concerned about the high costs and the methods of cable installation not up-to-date owing to missing standardization or to shortage of equipment like cable terminals, sleeves etc. The mechanics are often compelled to look for single parts, wherever available, the parts seldom being properly matched, or they are even compelled to make many accessories by hand in their own workshops. The author suggests that complete sets of matching cable accessories for specific needs be made available in stores. The repair work on cables must also be more efficient, if a repair program is set up. Such a program would comprise: establishment of quality standards for cable terminals and sleeves for various purposes of the cable, determining under what conditions the existing cable accessories may be used without having to be replaced soon, designing new types of cable accessories, working out methods of connecting old cables with new ones, and - finally - gearing the industry to supplying complete sets of cable accessories at proper quality standards. Plastic insulators

Card 1/2

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POL/29-60-1-2/2

For Progress in Design and Installation of Cable Accessories

and fillers should be employed to a greater extent; both epoxide (more expensive) and polyester (cheaper) resins are equally suitable. The use of synthetic resins was widely introduced a year ago by the Energoprojekt in Poznań, which employed the Polish-made POLIMAL 103/90 E for low-voltage cable terminals. At the same time the Central Designing Office for Cable Construction in Ożarów prepared plans for utilizing the Polish synthetic resins for cable installations both with new and old cables. At present, tests are made with the Polish synthetic resins for joining 15 kv cables.

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKRASA, JERZY

S/081/62/000/010/074/085
B166/B144

15.8N

AUTHORS: Lausch, Adam, Sulima, Tadeusz, Wajda, Helena, Rodzinski, Władysław, Matyszkiewicz, Stanisław, Nikodem, Jan, Okrasa, Jerzy

TITLE: A method of producing varnish for impregnating fabric in the production of electrical insulating panels

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 635, abstract 10P239 (Polish Patent 44508, June 7, 1961)

TEXT: The varnish for impregnating fabric to be used for electrical insulating panels is obtained by mixing a solution of epoxy resin in acetone along with an amine curing agent and a solution of phenolic resin, without free phenol, in C_2H_5OH with added urotropine. The special feature of this method is the use of a phenolic resin with the free phenol removed by toluene extraction. Electrical insulating panels made with the aforesaid varnish show high mechanical strength and heat resistance up to 180°C. Example. A solution is prepared with 51.5 parts by weight epoxy

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

S/081/62/000/010/074/085
B166/B144

A method of producing varnish ...

resin and 2.5 parts by weight amine in 46 acetone. To prepare the phenol-free resin 55 parts by weight phenol and 45 parts by weight 40% CH_2O with HCl (specific gravity 1.1), added at the rate of 1 ml per 1 kg of phenol, are heated at 95-100°C and at normal pressure for 40 min. When condensation is complete the resin is distilled in vacuo (residual pressure 200 mm Hg). The dehydrated resin is treated with toluene in a ratio of 1 : 1, after which the remaining toluene is distilled off in vacuo (residual pressure 200 mm Hg). A solution is prepared from 48 parts by weight phenol-free resin and 4 parts by weight urotropine in 48 parts by weight C_2H_5CH. The varnish is obtained by mixing 95% of the epoxy resin solution and 5% of the phenolic resin solution. Glass fabric is steeped in the varnish and is impregnated so as to contain 30-40% resin after drying. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

ACC NR: AT6029248 SOURCE CODE: UR/0000/66/000/000/0459/0461

AUTHOR: Okroashvili, G. G.; Maruashvili, T. I.

ORG: none

TITLE: Short description of a device for simulating certain problems in the theory of river flow regulation

SOURCE: Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematicheskogo modelirovaniya. 4th, Kiev, 1964. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); trudy konferentsii. Moscow, Izd-vo Nauka, 1966, 459-461

TOPIC TAGS: computer simulation, simulation test facility, control simulator, analog computer, flow analysis, flow control, flow kinetics, Markov process, stochastic process

ABSTRACT: The authors describe an analog, electronic, river-flow regulation simulator used for problems of flow regulation, based on the Monte-Carlo method. The system performs the following operations: accepts a series of uniformly distributed random numbers, and using them, from a given distribution function, selects a relation between adjacent numbers, and computes the values of the required parameters: the useful output, the losses, the filling of the reservoir, and the degree of accuracy in the output. The river flow is a continuous stochastic process that conforms to the distri-

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ACC NR: AT6029248

bution law, given by the Pierson type III curve. However, for the purposes of flow regulation, it is more convenient to consider the flow as a simple Markov chain. The simulator uses the algorithm

$$y_l = \begin{cases} \alpha, & \text{if } k_l + z_{l-1} - \alpha > 0; \\ k_l + z_{l-1}, & \text{if } k_l + z_{l-1} - \alpha < 0; \end{cases} \qquad z_l = \begin{cases} 0, & \text{if } k_l + z_{l-1} - \alpha < 0; \\ k_l + z_{l-1} - \alpha, & \text{if } 0 < k_l + z_{l-1} - \alpha < \beta; \\ \beta, & \text{if } k_l + z_{l-1} - \alpha > 0; \end{cases}$$

$$u_l = \begin{cases} 0, & \text{if } k_l + z_{l-1} - (\alpha + \beta) < 0; \\ k_l + z_{l-1} - (\alpha + \beta), & \text{if } k_l + z_{l-1} - (\alpha + \beta) > 0, \end{cases}$$

where $k_l = w_l/\bar{w}$, w_l is the average annual flow, $\bar{w}$ is the average flow over many years, y_l is the actual useful output, z_l is the filling of the reservoir, u_l is dumped water, α is the desired output level, and β is the reservoir capacity. The operations, which were carried out using the simulator, facilitate the optimum selection of the reservoir capacity and the level of the useful output. A block diagram of the equipment and construction details are given. Orig. art. has: 3 formulas, 1 figure.

SUB CODE: 09,12/20/ SUBM DATE: 12Feb66/ ORIG REF: 002

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKRASZEWSKI, Zbigniew, inz.

High-voltage apparatus produced by the G. Dymitrow Works. Wiad elektrotechn 32 no.5/6:144-146 My-Je '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

S/262/62/000/008/013/022
1007/1207

AUTHOR: Okrávec, Karel and Odstrčil, Bořivoj

TITLE: Method of balancing piston engines

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 8, 1962, 51, abstract 42.8.269. Czech. patent, class 46a[11], 1, no. 95646, June 15, 1960

TEXT: A method is proposed of complete balancing of inertia forces of the first order in one-cylinder piston engines — by means of counterweights fastened to the crankshaft and to two additional shafts mounted parallel with the crankshaft in a plane above its axis and normal to the cylinder center line. The counterweights rotate in opposite directions, with a velocity equalling the crankshaft angular velocity. The counterweights balance half the vertical component of the inertia forces, while the weights mounted on the additional shafts balance the horizontal component. The location angles of the counterweights are determined by known formulas. A number of arrangements and designs of the counterweights are described. There are 7 figures.

[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKRECLICKI, Mieczyslaw, dr (Gdansk)

The passenger carriage contract under the provisions of the Polish Maritime Code. Tech gosp morska 12 no.7/8:201-203 Jl-Ag 62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKREGLICKI, Mieczyslaw, dr. (Gdansk)

Carrier(s liability for damaged personal effects of passengers according to the Polish maritime code and the draft of a new international convention. Tech gosp morska 13 no.11:328-330 N'63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKREGLICKI, Waclaw, mgr inz.

Studies on using up certain engine parts by applying radioactive isotopes. Techn motor 12 no. 9: 315-318 S '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKREMA, D.N.

Automatic sampler of molasses sirups. Spirt.prom. 26 no.8:37-38 '60. (MIRA 13:11)

(Molasses)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKREMA, V.Ya.; RUDIN, V.P., prof., nauchnyy rukovoditel' raboty

Immediate and late results of antibacterial treatment of pulmonary tuberculosis in elderly and senile patients. Sov. med. 27 no.2:14-17 F '64. (MIRA 17:10)

1. Tul'chinskiy protivotuberkuleznyy dispanser (glavnyy vrach V.Ya. Okrema) Vinnitskoy oblasti.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

GOLOVNINA, M.V. [Holovnina, M.V.], prepodavatel'; CHERNITSKAYA, M.V. [Chernyts'ka, M.V.], prepodavatel'; RUDA, O.Ya., prepodavatel'; PANCHENKO, Z.P., prepodavatel'; OLEYNIKOVA, O.F. [Oleinykova, H.F.], prepodavatel'; VIRTEL', L.M., prepodavatel'; YAMPOL'SKAYA, A.M. [Lampol's'ka, A.M.], prepodavatel'; ALEKHNO, S.T., prepodavatel'; OKREPILOVA, E.P. [Okrepylova, IE.P.], prepodavatel'; SIMONENKO, Ye.M. [Symonenko, E.M.], prepodavatel'; TSIGEL'MAN, F.M., prepodavatel'; SHCHEPELYAYEVA, O.P. [Shchepeliaieva, O.P.], prepodavatel'; ZAIKA, N.P., prepodavatel'; BARSUKOVA, M.M., prepodavatel'; IZAROVA, N.O., prepodavatel'; IVCHENKO, T.P., prepodavatel'; NEKRASOVA, K.S., prepodavatel'; ALEKSEYEVA, P.O. [Aleksieieva, P.O.], prepodavatel'; GAVRILOVA, G. [Havrylova, H.], red.; GORKAVENKO, L. [Horkavenko, L.], tekhn.red.

[Dressmaking] Krii ta shyttia. Vyd.6, peror. i dop. Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1960. 692 p.

(MIRA 14:2)

(Dressmaking--Pattern design) (Sewing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

GAMKHITASHVILI, L.G.; KANDELAKI, N.P.; MARUASHVILI, T.I.; OKROASHVILI, G.G.; KHARATISHVILI, G.L.; KVAVILASHVILI, A.M.

Solution of some problems by new methods, using electric models with d.c. amplifiers. Trudy Vych.tsentra AN Gruz.SSR 2:319-334 '62. (MIRA 16:1)
(Electromechanical analogies) (Electronic calculating machines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

KANDELAKI, N.P.; OKROASHVILI, G.G.

Use of electronic models in the performance of certain relay-type functions. Trudy Vych.tsentra AN Gruz.SSR 2:335-338 '62. (MIRA 16:1)

(Numerical calculations)
(Electronic calculating machines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROASHVILI, G.G.

Specialized computer for solving some problems in the theory of runoff control. Trudy Vych. tsentra AN Gruz. SSR 6:1 :3-41 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

MAMUASHVILI, L.I.; OKROMCHANASHVILI, A.A.; TABIDZE, D.D.

Paleogeography of Colchis. Soob. AN Gruz. SSR 29 no.6:683-689 D 1962.
(MIRA 16:3)

1. Institut geografii imeni Vakhushti AN GruzSSR, Tbilisi.
Submitted December 9, 1961.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROJEX, C.

Knitting with less stretch. Biuletyn Wlok. p. 2.
PRZEMYSL WLOKIENNICZY Vol. 8, No. 1/2, Jan./Feb. 1956.

Source: East European Accessions List Vol. 5, No. 10, Oct. 1956.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROJEK, Czesław

Production of net fabrics for shoes and lady's outfit goods.
Przegl wlokien 18 no.11:Suppl:Biul prasm dziew i ponca 2 no.7:
1-6 N '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

KORSHUNOV, I.A.; NOVOTOROV, N.F.; AMENITSKAYA, R.V.; OKROKOVA, I.S.; PESTUNOVICH, N.A.; DUBOVSKAYA, V.N.; LEONOV, M.R.; GLAZOV, V.M.

Synthesis of organic compounds tagged with radioactive carbon. Radiokhimiia 1 no.6:728-733 '59. (MIRA 13:4)
(Carbon--Isotopes) (Organic compounds)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

S/079/60/030/009/002/015
B001/B064

AUTHORS: Korshunov, I. A., Novotorov, N. F., Okrokova, I. S.

TITLE: Synthesis of Paraffins Tagged With Radioactive C^{14} by Hydrogenating Olefins and by Decomposing Organometallic Lithium Compounds

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 9, pp. 2804-2808

TEXT: The synthesis of the above-mentioned hydrocarbons described in Refs. 1, 2 has a number of essential shortcomings, above all the poor yield (40%) as well as the complicated way of refining the final product, especially from the ether used as medium. To avoid this, it was necessary to develop a new method. In this respect the catalytic hydrogenation of olefins at low temperatures and standard pressure, as well as the decomposition of the crystalline organo-lithium compounds by means of oxidation appear to be of greatest importance. The present investigation deals with the synthesis of C^{14}-tagged paraffins by way of hydrogenation of olefins with a specially effective platinized coal (10% platinum). In this con-

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

Synthesis of Paraffins Tagged With Radioactive C^{14} by Hydrogenating Olefins and by Decomposing Organometallic Lithium Compounds

S/079/60/030/009/002/015
B001/B064

nection, the effect exerted by temperature, velocity of the gas current of reacting components upon the yield was investigated. At the same time, the synthesis of the paraffins tagged with radioactive C^{14} by means of organo-lithium compounds was worked out. The synthesis of saturated hydrocarbons by this method proceeds smoothly, but the formation of lithium alkyl occurs too slowly, especially towards the end of the reaction so that the yield in tagged hydrocarbons amounts to approximately 85-90% only. Thus, ethane-C^{14}, propane-1-C^{14}, butane-1-C^{14}, isobutane-1-C^{14}, octane-1-C^{14} were synthesized by means of catalytical hydrogenation. Propane-1-C^{14}, butane-1-C^{14}, isobutane-1-C^{14} were obtained by decomposition of organo-lithium compounds. The method suggested may be employed for the utilization of alcohol-containing by-products of low specific activity as well as of alcohols containing tagged products that form no alkyl halides. The two figures show the two apparatus for the hydrogenation of the hydrocarbons and for the synthesis of the organo-lithium compounds with subsequent decomposition, and Table 2 the constants of the saturated hydrocarbons. There are 3 figures, 2 tables, and 9 references: 6 Soviet, 2 US, and 1 British.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

Synthesis of Paraffins Tagged With Radioactive C^{14} by Hydrogenating Olefins and by Decomposing Organometallic Lithium Compounds

S/079/60/030/009/002/015
B001/B064

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet (Gor'kiy State University)

SUBMITTED: October 12, 1959

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

DZHANASHVILI, A.G.; OKRODZHANASHVILI, A.N.

Study of the cave fauna in the vicinity of Akhali-Af'oni. Soob. AN Gruz. SSR 32 no. 1:175-178 O '63. (MIRA 17:9)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROKVERTSKHOVA, I.A.

Special features in the development of national geography during the second half of the 18th century. Uch. zap. Sar. un. 72:13-18 '59. (MIRA 13:8)

(Geography)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROMCHEDLIDZE, D.P.

Tarkhan horizon in Megreliya. Trudy VNIGNI no.15:49-51 '59. (MIRA 14:6)
(Megreliya--Paleontology)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROMCHEDLIDZE, D.P.; METREVELI, I.A.

Stratigraphy of the Maeotic stage in Western Guria. Trudy VNIGNI no.38:214-220 '63.
(MIRA 17:6)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROMCHEDLIDZE, D.I.; SVANI, M.N.

Stratigraphy of the Maikop series of Guria. Soob. AN Gruz. SSR 38 no.2:337-342 My '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

OKROMCHEDLIDZE, N.P.

Kinetics of adsorption and desorption of tetralin and decalin on silica gels of various porous structures. Soob. AN Gruz. SSR 28 no.5:535-540 My '62. (MIRA 18:5)

1. Institut khimii imeni Melikishvili AN GruzSSR, Tbilisi. Submitted October 31, 1961.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

ACCESSION NR: AT4033982 S/0000/63/000/000/0037/0041

AUTHOR: Bogdanov, M. N.; Kalmy*kova, V. D.; Mandrosova, F. M.; Zhmayeva, I. V.; Okromchedlidze, N. P.; Sedy*kh, N. V.

TITLE: Synthesis and properties of fiber-forming polyalkyleneterephthalamides

SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, izd-vo "Nauka," 1963, 37-41

TOPIC TAGS: synthetic fiber, artificial silk, terephthalic acid, terephthalamide, polyalkylene terephthalamide, Alpha Omega diamine, Kapron

ABSTACT: A large number of polyamides based on terephthalic acid and unbranched ω,ω'-diamines with 8-16 methylene groups in the chain were synthesized and investigated with respect to their thermomechanical properties. The methods and conditions of synthesis are described. Effective additives were the aromatic hydroxy compounds, such as the isomers of hydroxyphenyl- and hydroxydiphenylmethane, which in an amount of 30-50% gave spinnable high-molecular-weight polyamides resistant to crystallization up to 320-340C. These are very suitable for spinning high-melting fibers. The limiting temperature of crystallization for polyamides from various terephthalates decreased to 280C or below. The synthesized polyamides were high-melting, strong, white substances, soluble only in concentrated

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

ACCESSION NR: AT4033982

H_2SO_4. The thermal stability of the resulting fibers was tested by strength loss at 140C. A comparison of the thermodynamic curves of synthesized high-melting monofilaments and polycaproamide filaments showed that the differences in the relative variation of fiber length during heating are relatively small and the maximum difference in the temperature of incipient deformation does not exceed 40C. Fibers made from polyalkyleneterephthalamide, regardless of the much higher melting point, differ only slightly in thermal stability from Kapron fiber. The conditions of preparation and the properties (viscosity, melting points) of various polyalkyleneterephthalamides as well as the spinning conditions and fiber properties (strength, etc.) are tabulated. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fibers)

SUBMITTED: 15May62 DATE ACQ: 30Apr64 ENCL: 00

SUB CODE: OC, MT NO REF SOV: 005 OTHER: 014

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

VOLOKHINA, A.V.; KUDRYAVTSEV, G.I.; RAYEVA, M.V.; BOGDANOV, M.N.; KALMYKOVA, V.D.; MANDROSOVA, F.M.; OKROMCHEDLIDZE, N.P.

Polycondensation of diamine salts of terephthalic and hexahydroterephthalic acids in the solid phase. Khim. volok. no.6:30-33 '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskustvennogo volokna.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001237920001-6

L 62832-65 EWT(m)/EWP(j)/T Pc-4 JAJ/[illegible]
ACCESSION NR: AP5019043

UR/0286/65/000/012/[illegible]
678.675.002.2

AUTHOR: Bogdanov, M. N. [illegible] Okromchedlidze, N. P. [illegible]

TITLE: A method for [illegible] No. [illegible]

SOURCE: Byulleten [illegible]

TOPIC TAGS: polyamide, polymer, polycondensation

ABSTRACT: This Au[illegible] a method for produ[illegible] by polycondensation [illegible] liminary polymer [illegible] temperature [illegible] product is improved [illegible]

ASSOCIATION: Vsesov [illegible] volokna (All-Union Scientific [illegible] Synthetic [illegible]

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