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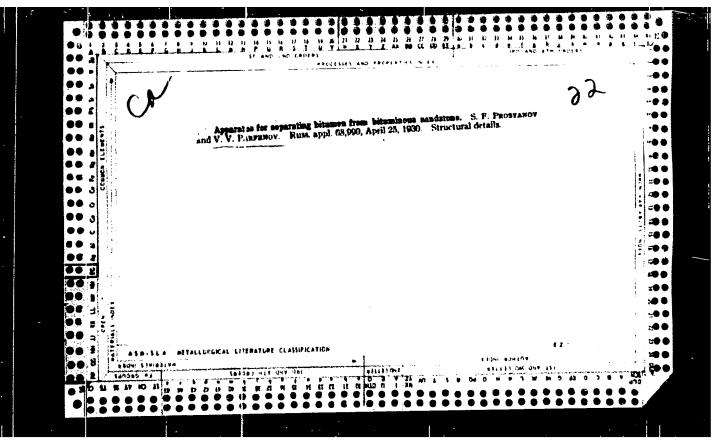
Water, Highway, Air and Industrial Transport SOV/1525

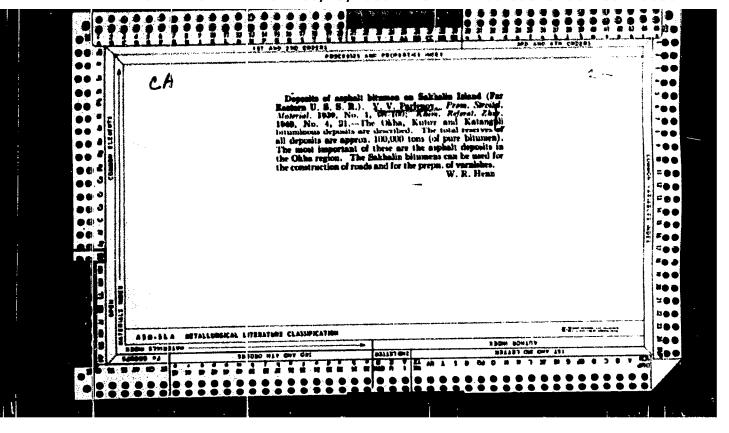
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AVAILABLE: Library of Congress

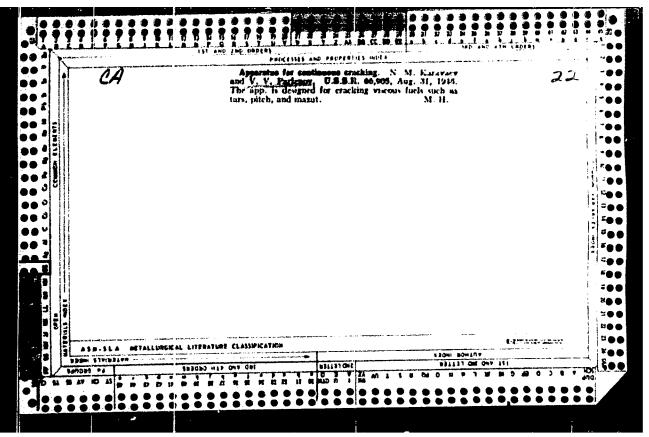
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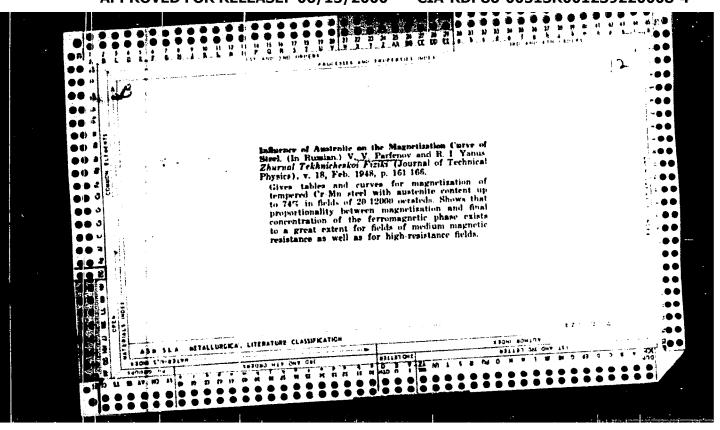
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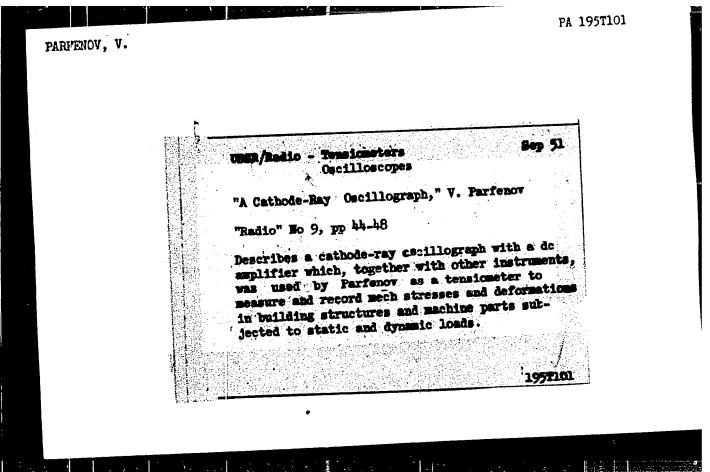




"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239220008-4







PARFENOV. V. V., ABELL'S, V. R.

Thermoelectricity

Investigation of the temperature dependence of the Hall effect in electrolytic from. Inv. AN SSSR Ser. fiz. 16, No. 5, 1952.

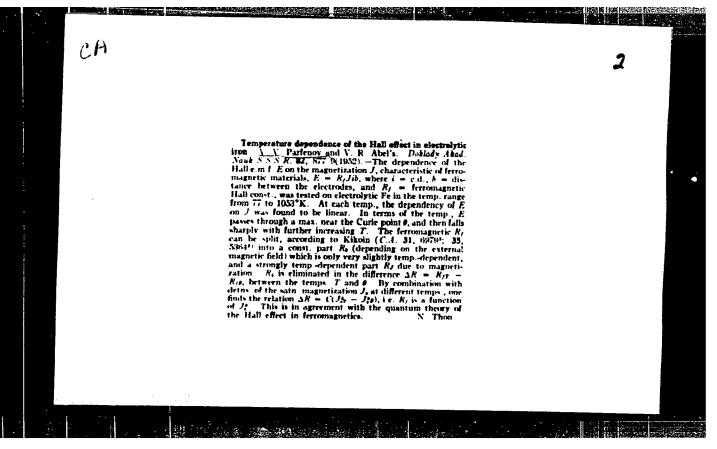
Monthly List of Russian Accessions, Library of Congress June 1953. UNCL.

YAMUS, R. I., PARFENCY, V. V.

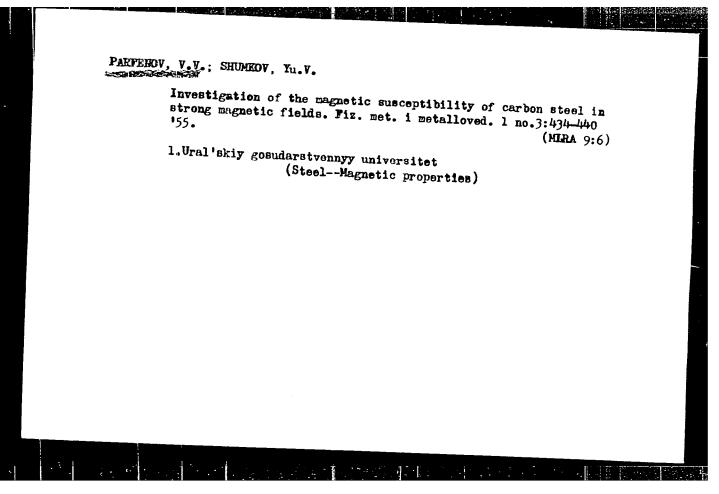
Electromagnetism

Practicability of electromagnets for measuring the reverse sensivity of ferromagnetic material in interne fields. Izv. AN SSSR. Ser. fiz. 16 No. 5, 1952.

9. Nonthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.



PARFENCY, V. V. 1) met 669.1 :669.24 :538.2 The Influence of Plastic Dokl. Akad. Nauk Deformation on the Shape of the Index <u>93</u>(3),435-438 Magnetization Curve of Iron and Aeronauticus . Nickel in the Region of High-Intensity Magnetic Fields April 1954 1953 Metallurgy V.V. Parfenov U.S.S.R. An experimental investigation into the influence of plastic deformation in torsion and tension on the magnetization curves of iron and nickel in fields up to 10,000 Oersted, from which the fundamental laws and constants are derived. It is confirmed, that the existing magnetic anistropy is conditioned by the crystalline anistropy of the material. (Bibl.11) Und State Vim. Gorking



PARFEHOV, V.V.,

"Investigation of Hagnetic Susceptibility in Alloys with Iron-Nickel Base in High Hagnetic Fields" Sverdlovsk

Conference on Physics of Magnetic Phenomena, May 1956, Sverdlovsk, 553%

PARFENOY, V.

"Cleaning the Blades of Gas Turbines," by V. Parfenov and N. Chernykh, Grazdanskaya Aviatsiya, No 11, Nov 56, p 24

The development of intercrystalline microscopic fissures along the edges of the metal surface grains of jet engine gas turbine blades, with subsequent deeper penetration due to thermal and mechanical stresses, results in blade failures. The unsatisfactory results of removing the chrome and aluminum oxide film by other methods led to the development of a chemical reagent, R-77, which consists of 4.3% fluobook (fluoric) acid (sp wt, 1.34-1.4) and 19.2% nitric acid (sp wt, 1.3-1.4) in water. The compound formed by the action of the reagent can be easily cleaned with a hairbrush and a stream of water. Any flaws can then easily be detected with a binocular

It is stated that R-77 has no effect on nonoxidizing metals. Blade stability is not reduced. However, blades made of EI-437 type alloys are negatively affected owing to the vigorous consumption of the reagent and prolonged pickling. The temperature of the reagent should be held to within 25-30°, and the pickling time should not exceed 40 minutes.

54M.1305

PARFEREY, V.V.

AUTHOR:

Parfenov, V.V.

48-9-25/26

TITLE:

An Investigation of the Magnetic Susceptibility of Solid Solutions

on the Basis of Iron and Nickel (Issledovaniye magnitnoy

vospriimchivosti tverdykh rastvorov na osnove zheleza i nikelya)

PERIODICAL:

Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 9,

pp. 1327-1333 (USSR)

ABSTRACT:

In this paper the magnetic susceptibility of solid solutions in the range of very strong magnetic fields was investigated at different temperatures. For the purpose of recording the curves of magnetization and susceptibility at room temperature, the methods described by the author in former publications (Izvestiya AN SSSR, Seriya Fizicheskaya, Vol. 16, p. 601, 1952, and Vol. 16, p. 611, 1952) were applied. The essential part of the measurements was conducted in fields up to 10.000 Oe. The examinations showed that the law of the approach of saturation is complied with sufficiently well. The constants contained in this law are caused by the differing magnetization processes and are essentially dependent upon the nature of the admicutre atoms. The investigations

made it possible to give a judgement on the conclusions from quantum mechanics on the dependence of the susceptibility upon

Card 1/2

PARFELOV, V.V.

48-9-26/26

AUTHORS:

Parfenov, V.V., Voroshilov, V.P.

TITLE:

Note on the Influence of Elastic Deformations on the Susceptibility of a Para-Process (Vliyaniye uprugoy deformatsii na vospriimchivost' paraprotsessa)

PERIODICAL:

Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 9, pp. 1334 - 1336 (USSR)

ABSTRACT:

In this paper preliminary experimental investigations on the influence of elastic deformation on the susceptibility of a paraprocess at a unidirectional dilatation were conducted. A molybdenum permalloy and a invar alloy were selected as samples. The utilization of these substances made it possible to investigate the problem under consideration in comparatively weak fields, where the modification of the magnetization is entirely dependent upon the para-process. Not noticeable modification of susceptibility was found in the substances under investigation under the influence of a unidirectional dilatation. The examination of the temperature dependence of the susceptibility confirmed the opinion, that the observed modifications of susceptibility are caused by the para-process in the range of field strength, which has

Card 1/2

PARFENOV, V.V.

Determining the extent of steel magnetization in strong magnetic fileds. Zav.lab.23 nc.2:211-215 '57. (MIRA 10:3)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Ger'koge. (Steel--Magnetic preperties) (Magnetic fields)

1160 1164 117

5/126/61/012/002/008/019 E193/E483

AUTHORS:

Parfenov, V.V. and Voroshilov, V.P.

TITLE

Investigation of the effect of uniaxial tension and compression in the elastic range on the saturating magnetization intensity and on susceptibility of the

para-process of ferromagnetics

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.12, No.2,

pp.240-248

The effect of mechanical factors on the saturation magnetization Is constitutes one of the more important problems of the modern theory of ferromagnetism. Following the findings of K.P.Belov (Ref. 4: ZhTF, 1949, 19, 1032 DAN SSSR, 1948, 61, 807; ZhTF, 1949. 19, 661; ZhTF, 1949, 19 348) who showed that. contrary to the generally accepted wish I, of a ferromagnetic is affected by uniaxial tension (even in the absence of phase transformations), the present authors had undertaken further study of this problem. The effect of uninstal elastic, both tensile and compressive strains on Is of various terromagnetics at 77 to 400°K was investigated, as well as the effer of these factors on the susceptibility of the para-process. In addition, the effect of Card 1/9

26558

Investigation of the effect ...

S/126/61/012/002/008/019 E193/E483

intensity of magnetization caused by increasing the applied load to σ ; the graphs above and below the H axis relate to tensile and compressive strains, respectively, of specimens at 400°K (curves 1 and 5), 288°K (curves 2 and 4) and 77°K (curve 3). Using the linear portion of curves in Fig. 2, the present authors constructed the ΔI_s (Gauss) versus σ (kg/mm²) graphs for the 64% Fe - 36% Ni alloy; these are shown in Fig. 3, where triangles and dots indicate results obtained under tensile stresses, circles and crosses indicating data obtained in compression; curves 1, 2 and 3 were obtained for specimens at 400, 288 and $77^{\circ}K$, Results, similar to those illustrated in Fig.2 and 3, were obtained for all other Fe-Ni alloys containing 32-40% Ni. The results of the other series of experiments are reproduced in Fig. 5. Here, AIs is plotted against o for the 64% Fe - 36% Ni alloy, tested at 77, 295 and 400°K (curves 1, 2 and 3 respectively) in the annealed condition (dots) and after plastic deformation of 7% (crosses) or 14% (triangles). The results obtained for the 70% Fe - 30% Ni alloy, tested under $\sigma = 6 \text{ kg/mm}^2$, are reproduced in Fig.6, where ΔI_s is plotted against the test temperature (°C), curves 1 - 6 relating to results obtained in fields of 315, 525,

 χ

Investigation of the effect ...

S/126/61/012/002/008/019 E193/E483

1050, 1575, 290 and 320 Oe, respectively. obtained for this alloy, tested in a field H = 1050 Oe, are shown in Fig. 8 where ΔI_s is plotted against σ , curves 1-7 relating to data obtained at 50, 34, 16, 70, 75, 81.5 and 101°C, respectively. The results of the present investigation proved conclusively that uniaxial elastic strains (both tensile and compressive) affect the magnitude of the saturation magnetization $\mathbf{I}_{\mathbf{S}}$, the resultant change being practically independent of the magnetic field strength. This effect was observed at all temperatures below the Curie point, ΔI_s (in the case of alloys containing 32 to 40% Ni) being proportional to the applied load. The results of measurements, carried out in fields of up to 3500 Oe on Fe-Ni alloys, ordered Ni3Mm alloy and other materials, showed that the susceptibility of the para-process is unaffected by elastic strains (both tensile and compressive) even at temperatures approaching the Curie point. The change of the interatomic distance, caused by elastic strains, is bound to affect the energy of interaction between electrons participating in ferromagnetic phenomena, and this provides a qualitative explanation of the observed variation of the saturating magnetization intensity.

26558 Investigation of the effect ... 5/126/61/012/002/008/019 E193/E483

At present, it is not possible quantitatively to determine the effect of the mechanical factors on AI and on its temperature dependence, or to formulate a well-substantiated explanation of the fact that ΔI_s is independent of H and that the susceptibility of the para-process is not affected by o. the fact that, in the case of the Ni3Mn alloy characterized by The same applies to high-volume magnetostriction and susceptibility of the para-process, the saturating magnetization intensity is not affected by elastic The most simple explanation of the anomalies, observed in the alloys of the Invar type, can be provided on the basis of a postulate of the existence of "latent" antiferromagnetism (Ref.9: Kondorskiy, Y.I. ZhETF, 1959, 37, No.6 (12), 1819), although there may be some other contributing factors such as the variation of the constitution of the alloy during elastic There are 8 figures and 9 references: 7 Soviet and 2 non-Soviet. The reference to an English language publication reads as follows: Patrick L. Phys. Rev., 1954, 93, 384.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo (Ural State University imeni A.M.Gor'kiy)

Card 5/9

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5/126/62/013/003/003/023 B039/E135

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AUTHORS:

Parfenov, V.V., and Voroshilov, V.P.

TITLE:

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The process of magnetisation of ferromagnetics in the region of high magnetic fields. I. The influence of elastic and plastic deformation

on the law governing the approach to magnetic

saturation

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.3, 1962,

340-350

TEXT: Susceptibility measurements were made on nickel and permalloy when under loads of up to 22.8 kg/mm² and after their removal. The samples were 300 nm long and 2.5-5.0 mm in diameter for magnetising fields up to 3500 oersted, and 100 mm long and 6 mm diameter for fields up to 10 000 oersted. These fields were supplied by an oil-cooled solenoid. The experimental method is described in earlier papers. It is shown that, in the region where true magnetisation is not playing an essential role, the susceptibility is changed by elastic deformation of the samples and depends on the change in elastic Card 1/3

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The process of magnetisation of ... S/126/62/013/003/003/023 E039/E135

strain in the crystal lattice. For high magnetic fields the change in differential susceptibility with field is given by:

$$\chi = \frac{b}{H^2} + \frac{a}{H^3} + \cdots + \chi_p \quad (H, T)$$
 (1)

where a and b are coefficients connected with the change in magnetisation under the influence of an external magnetic field. In the case of plastic deformation a increased with deformation up to the limit measured (22.8 kg/mm²). Good agreement is obtained between experimental and theoretical values of a. Values of the coefficient b were also determined. The coefficients a and b should change equally under the influence of plastic deformation, hence b also should be proportional to the plastic deformation. The experimental results do not confirm this and it is not possible to give a clear explanation of the observed approach to saturation on the basis of the results obtained. The measurements were all taken at 278-290 °K. It is possible that a comparison with Card 2/3

The process of magnetisation of ... S/126/62/013/003/003/023 E039/E135

measurements at different temperatures may help to clarify the problem.

There are 8 figures and 1 table.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni

A.M. Gor'kogo

(Ural State University imeni A.M. Gor'kiy)

SUBMITTED: Initially, April 10, 1961;

After revision, August 16, 1961.

Card 3/3

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239220008-4"

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37695 5/126/62/013/004/002/022 E039/E435

18 8100

Parfenov, V.V., Voroshilov, V.P.

Magnetization processes for ferromagnetics in the **AUTHORS:** TITLE:

region of high magnetic fields. II The influence of elastic and plastic deformation on the law of approach

to magnetic saturation at various temperatures

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.4, 1962,

502-511

According to experimental results described in the paper the law of approach to saturation of magnetization can be presented in the form

$$\chi = aH^{-3} + bH^{-2} + \chi_p' + \frac{c}{H^{1/2}}$$

where Xp is the constant part of the susceptibility.
region of magnetic fields, where the terms containing the coefficients a and b are not significant, changes in the magnetization path depend on essential paraprocesses and the Card 1/3

Magnetization processes ...

S/126/62/013/004/002/022 E039/E435

experimental values of susceptibility conform to the following law

$$\chi = \chi_p' + \frac{c}{H^{1/2}}$$

where χ_p depends only on temperature. This law is valid for a wide range of temperatures but not near to the Curie point. The chinge in susceptibility under the influence of elastic deformation (uniaxial elongation and compression) at different temperatures depends on changes in the elastic stress conditions of the crystal lattice. In the case of nickel its natural crystalline anisotropy is increased when under load but the coefficient a is not reduced. The theoretical formulae connecting a with the values of the external and internal strains a and an characteristic of the mechanical condition of the crystal lattice under load and after its removal, show good agreement with experimental data for all the investigated materials at different temperatures. The coefficient b is small for the normal and loaded conditions. It is shown that the greater the

Magnetization processes ...

s/126/62/013/004/002/022 E039/E435

load producing plastic deformation the larger the change in b observed after the removal of the load. The value of b is weakly dependent on temperature. The given law is valid for Ni, Fe, Permalloy, Ni3Mn and some Fe-Ni alloys related to the invar group. These materials were investigated in the temperature range 77 to 400°K and for specific loadings up to 22.8 kg/mm². There are 9 figures and 1 table.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo

(Ural State University imeni A.M.Gor'kiy)

SUBMITTED:

April 10, 1961 (initially) July 1, 1961 (after revision)

Card 3/3

PARFENOV, V. V.; LOBANOV, Yu. A.; SHIMOLIN, L. V.

Investigating the law of magnetization approaching saturation in specimens made of fine ferromagnetic powders. Fiz. met. i metallowed. 14 no.4:503-511 0 '62. (MIRA 15:10)

1. Urall'skiy gosudarstvennyy universitet imeni A. M. Gor'kogo.

(Magnetization) (Metal powders-Magnetic properties)

PARFENOV, V.V.

Ferromagnetic material magnetization processes in the range of high magnetic fields. Fiz. met. i metalloved. 16 no.6:827-836 D '63. (MIRA 17:2)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.

ACC NR: AP7005132

SOURCE CODE: UR/0126/66/022/004/0563/0568

AUTHOR: Parfenov, V. V.; Mulyukov, Kh. Ya.; Kuranov, A. A.; Klyuyeva, I. B.

ORG: Ural State University im. A. M. Gor'kiy (Ural'skiy gosuniversitet)

TITLE: Effect of dimensions of the specimen on the formation of magnetic properties in the cobalt-platinum alloy

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 4, 1966, 563-568

TOPIC TAGS: cobalt alloy, platinum alloy, magnetic coercive force, magnetic susceptibility

ABSTRACT: When in high-coercive state, Co-Pt alloys form a fine-disperse two-phase system, which accounts for their high coercive force and magnetic energy. The principal factors in the effect of such a structure of the alloy on its magnetic properties must be: the nature of the phases formed, their amount, shape and pattern of distribution. If that is so, then the variation in the magnetic characteristics of these alloys during the various regimes of their heat treatment must follow the same laws as in the case of pressed ferromagnetic powders with change in their nature, size, packing density, etc. To further elucidate this nature of the magnetic properties of these alloys, the authors investigated the effect of sheet (1 to 10⁻³mm)

Card 1/2

UDC: 546.3-19!73!92:538.22

ACC NR. AP7005132

thickness and wire diameter (diameter 1 to $2 \cdot 10^{-2}$ mm) on the processes of magnetization and magnetization reversal following various types of thermomechanical treatment (quenching, tempering at 600, 630, 650, 700 and 750°C for 1 hr, rolling). The principal magnetic characteristics were measured in an electromagnet in fields of up to 20,000 oe at 77 and 300 K with the aid of a high-sensitivity magnetometer. Findings: following quenching coercive force is low (\sim 10 oe) and magnetization saturation is maximal (\sim 720 gauss). The smaller the thickness of the specimen the higher the coercive force is, and the lower the initial susceptibility is. With increase in tempering temperature coercive force initially increases until it reaches a peak (~630-680°C) after which it begins to decrease; for initial susceptibility an opposite pattern is observed. On the other hand, magnetization saturation steadily decreases with increase in tempering temperature. In specimens whose thickness is reduced by means of cold grinding or etching from 1 mm to 5·10⁻² mm (i.e. with conversion from three-dimensional to two-and one--dimensional cases) coercive force decreases and initial susceptibility increases. Thus the size of specimens (on transition from three-dimensional specimens to two- and one-dimensional cases) markedly affects the formation of magnetic properties of the Co-Pt alloy. It is presumed that the decrease in coercive force with decrease in thickness following optimal treatment is associated with the change in the dispersity of particles and in their magnetic interaction. conclusion the authors wish to express their appreciation to N. I. Solpv'yev for preparing the specimens." Orig. art. has: 6 figures.

SUB CODE: 20, E/ SUBM DATE: 14Sept65/ ORIG REF: 002/ OTH REF: 005

Card 2/2

EMC(j)/EMC(r)/EMT(1)/A/AR/EMT(m)/FS(+)=3/K/EMD(v)/EMC(a)/EMC(c) Pe-5 L 8445-65 AFETR/AFTC(b)/AFTC(a)/AEDC(a)/SSD/AMI/AFMD(c)/ASD(a)-5/AFWL/EED(s1) Pa-L/Pb-L DD ACCESSION NRV AP4043504 5/0293/64/002/004/0648/0653 AUTHOR: Parfenov, G. P. TITLE: The development of crossing over in male Drosophila under the influence of vibration, acceleration, and game radiation SOURCE: Rosmicheskiya issladoveniya, v. 2; no. 4, 1964; 648-653 space flight, Drosophila, genetics, vibration, accelertion, gamma rediction ABSTRACT: Earthside experiments were conducted on male fruit flies to determine the individual and combined influence of radiation, accelaration and vibration on the incidence of crossing over. Crossing over was detected in the second chromosome of hybrid males obtained from crossing Domodedova-32 (wild type) females with male black, cinnibar, westigial recessives. The greatest incidence of crossing over was observed on the 9th day following 1000--2000 r of gamma radistion and when sex cells were in the maintic stage. Vibration with an amplitude of 4 mm st a frequency of 70 cps and a duration of 2-4 hours induced crossing over which was most noticeable in proximal se Cord 1/2

L. Gils-65
ACCESSION BR: APA043504

tions of the chromosome. Acceleration (4000 g on a biochemical centrifuge with an arm radius of 15 cm) had no effect on crossing over. Vibration decreased the subsequent action of gamma radiation on crossing over hile acceleration increased the effect of radiation. A summary effect was produced when fline were exposed to both vibration and acceleration following gamma irradiation. Origo art. has 1 ifigure and 4 tablos.

ASSOCIATION 21Dec63 ATD PRESS: 3097 ENGL: 00

FOMINYKH, F.D.: TOMILIN, N.F.; PARFENOV, V.V.

Gen ctless phase-shifting semiconductor device. Names, trusp
KNIUI no.15:5-10 '64.

(MRA .8.8)

EYR'KA, V.F.; KRAUS, E.G.; TOMILIN, N.F.; PARFENOV, V.V.; FOMINYKH, F.D.

Experimental stoping cutter-loader with a regulated d.c.
drive. Nauch. trudy KNIUI no.15:23-40 '64. (MIRA 18:8)

KUPCHENKO, L.D.; PARFENOV, V.V.

Use of latexes as film-forming agents in coating dyes for leather.

Kozh.-obuv.prom. 6 no.3:28-30 Mr '64. (MIRA 17:4)

PARFENOV, V.V.; LOBASTOV, Yu.P.

Magnetization processes of ferromagnetic materials in the region of strong magnetic fields. Part 3: Investigating, on single crystals, the law of magnetization approaching saturation. Fiz. met. i metalloved. 16 no.3:334-342 S '63. (MIRA 16:11)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.

ACCESSION NR: APA009375

\$/0126/63/016/006/0827/0836

AUTHOR: Parfenov, V. V.

TITLE: Processes of ferromagnetic magnetization in high magnetic fields. 4. Study of the law governing magnetization approach to saturation in alloys

SCURCE: Fizika metallov i metallovedeniye, v. 16, 1963, 827-836

TOPIC TABS: magnetic field, magnetization, ferromagnetic magnetization, magnetization saturation, ferromagnetic heterogeneous alloys, structure transformation effect, phase transformation effect

ABSTRACT: The effect of structure and phase transformations on the alignment of the magnetization curve in magnetic fields up to 10 000 e was investigated. Measurements at room temperature were made in an electromagnet. The samples were cylindrical, 42 mm long and 6 mm in diameter. At higher temperatures (400 to 77K), the measurements were taken in an oil-cooled solenoid (magnetic fields up to 4500 e). In the latter case the samples were shaped as ellipsoids of revolution. The relation of differential susceptibility 100 to 100 to 100 magnetic field is shown in Fig. 1 of the Enclosure. This relationship was sustained by the results obtained for heterogeneous alloys with ferromagnetic and nonmagnetic phase concentrations verying within

Cord

1/12

ACCESSION NR: AP4009375

broad limits. Forces counteracting the achievement of the saturation state in heterogeneous alloys were introduced by the effect of the internal fields (disturbances of magnetization homogeneity). Orig. art. has: 2 tables, 7 figures, and 2 formulas.

ASSOCIATION: Ural'skiy gosuniversitet im. A. M. Gor'kogo (Ural State University)

SUBLITTED: 08Jan63

DATE ACO: 03Feb64

EYCL: O1

SUB CODE: ML, PH

10 REF SOV: 021

OTHER: 008

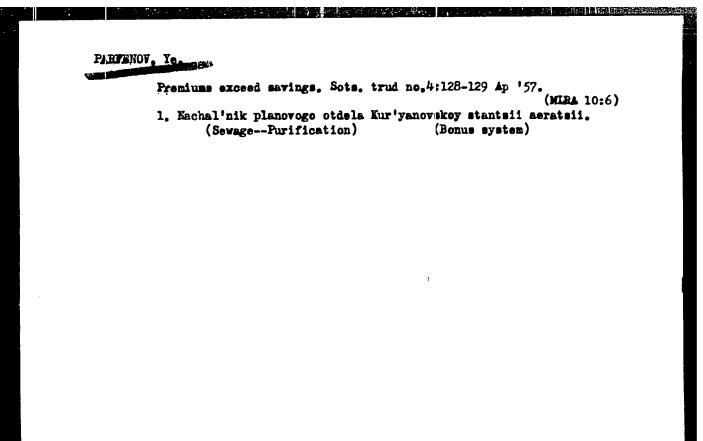
-Cord 2/32

PARFENOV, V.V.; VOROSHILOV, V.P.

14、20m (15.0cm) (20.0cm)

Ferromagnetic material magnetization processes in the range of high magnetic fields. Part 2: Effect of elastic and plastic deformations on the law of magnetization nearing saturation at various temperatures. Fiz. met. i metalloved. 13 no.4:502-511 Ap '62. (MIRA 16:5)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo. (Deformations (Mechanics)) (Perromagnetism)



PARFENOV, Ye.A.

Measures worked out by the Committee for Fulfilling Decisions of the November 1962 Plenum of the Central Committee of the CPSU. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.itekh.inform.no.3:68-71 163. (MIRA 16:4)

(Russia--Economic policy)

GUREVICH, Ye.J.; SHIRHOV. A.S.; LIVSHITS, Z.I.; LOSEV. M.T.; RALAHOVSKIY, S.A.;
UDVANSKIY, N.Te.; MURAV'YEV, V.M.; AMIYAN, V.A.; LOZGACHEV, P.M.;
OFROSIMOV, V.S.; POPOV, S.S.; MATSKIH, L.A.; RATUSH, P.P.; PARPEHOV,
Ye.I.; DURROVIMA, N.D., vedushchiy red.; MUKHIMA, B.A., tekhn.red.

[Soviet petroleum industry] Neftiensis promyshlennost' SSSR.

Moskvs, Gos.nsuchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1958. 330 p. (MIRA 11:3)

(Petroleum industry)

ZUSIN, S.I., inzh.; PARFENOV, Ye.N., inzh.

Measures for saving fuel oil. Energetik 6 no.9:10-12 5 58.

(MIRA 11:11)

(Protroleum as fuel)

PARFENOU, YE. N.

SOV-91-58-9-4/29

. AUTHOR:

Zusin, S.I. and Parfenov, Ye.N.; Engineers

TITLE:

Measures for Economizing on Firing Mazut (Meropriyatiya po

ekonomii rastopochnogo mazuta)

PERIODICAL:

Energetik. 1958, Nr 9, pp 10-12 (USSR)

ABSTRACT:

To ensure the proper supply of air to the firing chamber, necessary for the economical burning of mazut during the firing of a boiler, the draft fan may be switched on. Regulations, however, forbid this before the temperature of the exhaust gases has reached 120°C, for fear of causing gasthe exhaust gases has reached 120°C, corrosion at the cold end of the air-heater. A study of old air-heaters, removed after 25 years service, revealed no trace of gas corrosion. The author concludes that for firing a boiler which has been on reserve for less than 24 hours, the fan may be switched on at the beginning of the process with resultant saving in mazut. Where a boiler is being repeatedly shut off on reserve, rapid cooling takes place through natural draft. To prevent this, a swinging valve can be installed in the inlet of the flue-gas pump, automatically cutting off any natural draft. When firing from cold, after a long stoppage for general maintenance or major re-

Card 1/2

Measures for Economizing on Firing Mazut

SOV-91-58-9-4/29

pairs, a metal cone may be fitted into the nozzle of the burner to assist firing, instead of using an oil flare. The cone is heated by the burner flame and causes immediate reignition if the burner flame is extinguished due to pulsations in the mazut supply (Figure 3). An even better stabilizing device is shown in Figure 4 and consists of a perforated metal cap designed to fit over the end of the burner nozzle. There are 4 diagrams.

1. Boilers--Operation 2. Fuels--Economic aspects

Card 2/2

THE REPORT OF THE PARTY OF THE

FILIPPOV, A.M.; PARFENOV, Yu.A.; MOROZOVA, A.D.; TOMCHIN, B.Z.; SHAFRAN, B.I., otv. red.; CHŚNOKOVA, T.V., red.; SLUTSKIB, A.A., tekhn. red.

[Handbook on electric measurements in municipal telephone lines] Rukovodstvo po elektricheskim izmereniiam linii gorodskikh telefonnykh setei. Moskva, Sviaz'izdat, 1962. 120 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Upravleniye mestnoy telefonnoy svyazi i radiofikatsii. 2. Sotrudniki lineyno-kabel'noy laboratorii Nauchno-issledovatel'skogo instituta gorodskoy i sel'skoy telefonnoy svyazi Ministerstva svyazi SSSR (for Parfenov, Morozova, Filippov). (Telephone lines)

(Electric measurements-Handbooks, manuals, etc.)

31845 S/194/61/000/010/082/082 D271/D301

6,7000 AUTHORS:

Parfenov, Yu.A., Kopacheva, Yu.I., Goryachev, V.A.,

Minenko, Yu.G. and Mosolova, G.K.

TITLE:

Apparatus for automatic measurement of crosstalk

attenuation

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 2-3, abstract 10 L10 (Tr. nauchno-

tekhn. konferentsii Leningr. elektrotekhn. in-ta

svyazi, no. 1, L., 1961, 133-141)

TEXT: Measurement of near-end crosstalk attenuation in multi-pair local telephone cables is at present both labor-consuming and imperfect. In order to reduce time waste and improve the supervision of the condition of local cables, an apparatus was developed for automatic measurement of crosstalk attenuation which permits automatic detection of low crosstalk attenuation pairs. The capacity of the equipment is 200 x 2. The equipment is composed of:

Card 1/2

Calculation of the effect of remote control and telemetering mirrority on telephone lines in a common cable. Shor. true. LIFFs no. 11:146-1 1 (CHA 17:9)

PARFENOV, Yu.A.; MORCZCVA, A.D.

Electromagnetic couplings between circuits in short TG cable sections.

Sbor. trud. NITTS no.11:152-162 '63. (MIRA 17:9)

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S/026/60/000/03/025/047 D001/D006

21(0)

AUTHORS: Rodin, S.S., and Parfenov, Yu.D.

TITLE:

The Peaceful Atom in Action

PERIODICAL:

Priroda, 1960, Nr 3, pp 107 - 109 (USSR)

ABSTRACT:

A conference on the peaceful applications of atomic energy was convened in Tashkent at the end of 1959 by the Akademiya nauk Uzbekskoy SSR (Academy of Sciences of the Uzbekskaya SSR) and the republic's Nauchno-tekhnicheskiy komitet Soveta Ministrov (Scientific and Technical Committee of the Council of Ministers). Over 1,000 scientists and specialists participated and more than 300 papers were read at the 2 plenary and 40 ordinary sessions -The sessions 50% of them by Uzbek scientists. were devoted to research on nuclear physics, radiation chemistry, the uses of radio-isotopes 19 in industry, geology, biology, medicine and agriculture. The following reports were heard: the development prospects of scientific research by U.A. Arifov, Director of the Institut yadernoy fiziki (Nuclear Physics Institute)

Card 1/6

	S/026/60/000/03/025/047 D001/D006	
The Peaceful	Atom in Action	
Card 2/6	of the AS UzSSR; prospects for the peaceful utilization of atomic energy in the USSR by V.I. Sinitsyn, representative of Glavatom at the Sovet Ministrov SSSR (Council of Ministers of the USSR); the production of radioactive iso- topes in the USSR by G.M. Fradkin; the results of the work of Uzbek scientists on the effect of radiation on solids and liquids by S.V. Sta- rodubtsev, vice-president of the AS UzSSR; "Modern Methods of Radiochemistry" by A.K. Lavrukhina who discussed the work of the In- stitute of Geochemistry and Analytic Chemistry at the Ob"yedinennyy institut yadernykh issle- dovaniy (Joint Nuclear Research Institute) in Dubna; the adsorption of alkali- and rare earth elements in chernozem by the marked atom method by E.A. Chuveleva, K.V. Chmutov and P.P. Na- zarov. Other papers and reports dealt with:	
	article (and the last transfer of the last transfe	

S/026/60/000/03/025/047 D001/D006

The Peaceful Atom in Action

research into radio chemical processes; the effect of ionizing radiation on matter; the radio chemical method of obtaining highly active metallic catalysts; the effect of radiation on various polymers; the influence of gamma-radiation on the composition and physico-chemical properties of different components of cotton seed; the radiochemical conversion of matter in aqueous solutions; methods of obtaining pure radioactive isotopes; the state of micro-quantities of radio-elements in solutions; the use of radioactive iodine to diagnose and cure functional disorders of the thyroid gland, to determine its speed of accumulation in cases of gastritis and to diagnose brain tumors; the use of radio-isotopes to study the circulation of blood and lymph and introduce "marked"

Card 3/6

S, 026/60/000/03/025/047 D001/D006

The Peaceful Atom in Action

medicines into the organism; the effect of radioactive vapours at Khodzhi-Obirgam spa on the human organism; the functional change of different systems, organs and tissues under the influence of ionizing radiation; the use of radio-isotopes in treating tumors of the mouth, throat, nasopharynx, etc., and experimenting on living organisms; radio-isotopes in plant cultivation; the properties of chlorophyl biosythesis and destruction by radioactivity of the cycle in plant organisms; the transmigration of mineral matter in the nourishment of plants; the effect of small doses of radiation on the growth, development and fertility of cotton, mulberry-trees, etc; the problems of using radiation in cattle-breeding and veterinary surgery. The participants in the conference inspected the recently built reactor.

Card 4/6

S/026/60/000/03/o25/047 D001/D006

The Peaceful Atom in Action

Card 5/6

Apart from the new reactor, the <u>Uzbek Nuclear</u>
Physics Institute is equipped with a complex
of fast-neutron generators, a powerful cobalt
gamma-radiation installation and specially
equipped physical and radio-chemical buildings.
A cyclotron is under construction. It its
short existence the Institute has performed
much valuable research. One of its contributions is the discovery that gamma-radiation is
excellent for preserving the cocoon of the mulbery silk-worm. Instruments for automating
labor-wasting production-quality control-processes and production regulating processes
evolved by the Institute are already in use
at enterprises in Tashkent, Chirchik and
Ammalyk. Radiation methods are also being used
to solve the problems of supplying the virgin

\$/026/60/000/03/025/047 D001/D006

The Peaceful Atom in Action

soils of the Golodnaya Steppe and Central

Fergana with water.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii Akademii nauk SSSR (Institute of Geochemistry

and Analytic Chemistry of the AS USSR) Rodin. Ministerstvo zdravookhraneniya RSFSR
(RSFSR Ministry of Health / Moscow) Parfenov.

Card 6/6

PARFENOV, Yu.D.

Transfer of strontium from the mother to the fetus. Med.rad. 5 no.10:75-80 '60. (MIRA 14:2) (STRONTIUM METABOLISM)

PARFENOV, Yu.D. Metabolism of Sr⁹⁰ in the skeleton of dogs at remote periods.

Med. rad. 5 no.12:43-47 '60. (MIRA 14:2)

(STRONTIUM__ISOTOPES) (BONES)

(RADIATION SICKNESS)

ZAKUTINSKIY, David Iosifovich; PARFENOV, Yuriy Dionisovich; SELIVANOVA, Lidiya Nikolayevna; IYASS, F.M., red.; PETROVA, N.K., tekhn. red.

[Mamual on the toxicology of radioactive isotopes]Spravochnik po toksikologii radioaktivnykh izotopov. Moskva, Medgiz, 1962. 115 p. (ISOTOPES—TOXICOLOGY) (MIRA 15:8)

S/205/62/002/005/003/017 ·· D268/D308

AUTHORS:

Duzhenkova, N.A., Parfenov, Yu.D., Savich, A.V., and

Yartsev, Ye.I.

TITLE:

Radiochemical conversions of aqueous solutions of

tryptophan

PERICDICAL: Radiobiologiya, v. 2, no. 5, 1962, 662 - 666.

TEXT: An aqueous solution of Soviet dl-tryptophan (5 x 10⁻⁴ M) diluted to 2.5 x 10⁻⁴ M in each of 3 media and exposed to Co⁶⁰ gamma radiation at 300 rad/min was used to determine the relationship of some tryptophan radiolytic products (ammonia, anthranilic acids, and kynurenine) to concentration and pH. Also studied were the effects of the protective cysteine hydrochloride and the sensitizing Na₂S₂O₈

on tryptophan radiolysis. The yield of radiochemical decomposition products was markedly affected by the pH of the solution. Maximum amino acid resistance in neutral medium was at pH 5.89. The quantity of anthranilic acids and kynurenine formed at the disruption of the indole ring increased with enhanced alkalinity of the solution.

Card 1/2

Radiochemical conversions of ...

S/205/62/002/005/003/017 D268/D308

The protective effect of cysteine hydrochloride was determined at pH 2.7 and 11 and was also found markedly dependent on the pH of the medium, being more pronounced in acid than in alkaline media, showing that cysteine acts as an acceptor of H and HO₂ radicals. There are 5 figures.

SUBMITTED: March 2, 1962

Card 2/2

MEL'NIKOV, V. V.; LITVINOV, N. N.; PARPENOV, Yu. D.

Some new data relative to the blastomogenic action of $\rm Sr^{90}$. Vop. onk. 8 no.7:10-14 $^{1}62$. (MIRA 15:7)

 AMN SSSR (rukoviteli raboty - deystv. chl. AMN SSSR, prof. N. A. Krayevskiy, prof. D. I. Zakutinskiy)

(STRONTIUM_ISOTOPES) (CARCINOGENS)

THE REPORT OF THE PERSON OF TH

VOROZEEYKINA, T.V.; PARFENOV, Yu.D.; ZAKUTINSKIY, D.I., prof. nauchnyy rukovoditel'

Placental transfer of strontium-90 (Sr⁹⁰). Biul. eksp. biol. i med. 54 no.8:96-100 Ag '62. (MIRA 17:11)

1. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

ACCESSION NR: AT5006114

8/0000/64/000/000/0124/0130

AUTHOR: Burykina, L. N.; Parfenov, Yu. D.

TITIE: Passage of strontium-90 from mother to offspring in dogs under conditions of chronic uptake

SOURCE: Respredelenive, biologicheskoye devatvive, pakorenive vyvedenive radioaktivnykh izotopov (Distribution, biological effect, acceleration of the excretion of radioactive isotopes); sbornik rabot. Moscow, Izd vo Meditsina, 1964, 124-130

TOPIC TAGS: strontium-90; radioisotope, mineral met bolism, bone, placenta, pregnancy, radioactivity

ABSTRACT: Seven mature female dogs received 0.002 μ 1/kg, 0.2 μ c/kg, or 0.2 μ c/kg of Sr⁹ daily with food over a long period. At various times during the experiment they were mated, and 19-41 months after they began to receive the isotope, they produced offspring. Administration of the isotope continued throughout pregnancy and lastation. The amount of Sr^{90} accumulating in the mother's skeleton reached a maximum 11-17 months after the start of the experiment and remained constant thereafter. Thus, the pupples were born at a time when the level of radioactivity in their mothers' skeletons remained unchanged. The Sr^{90} concentration was found to

Card 1/2

	ACCESSION NR: AT5006114		
	be twice as high in the skele	ton of the puppy as in that	of the mother. The maxi-
	mum concentration during poste	embryonal development wan 4	times higher than in the
	fetus. The results of the exp mothers who regularly receive	eriment show that pupplis p	roduced and suckled by
	amounts of radioactivity. Tal		
	rabbits. Orig. art. has 6 tal		
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PARFENOV, Yu.D.; YUSUPCV, A.A.; ZAKUTINSKIY, D.I., nauchnyy rukovoditel' raboty

Passage of Sr^{90} and Ca^{45} through the placenta in rats.Biul. eksp. biol. i med. 57 no.3:67-70 Mr 164.

(MIRA 17:11)

1. Predstavlena deystvitelinym chlenom AMN SSSR A.V. Lebedinskim.

ACC Nh AP5027303 SOURCE CODE: UR/02h1/65/010/010/0050/005h

AUTHUR: Tikhaya, M. G.; Novikova, A. P.; Partenov. Yu. D. 38

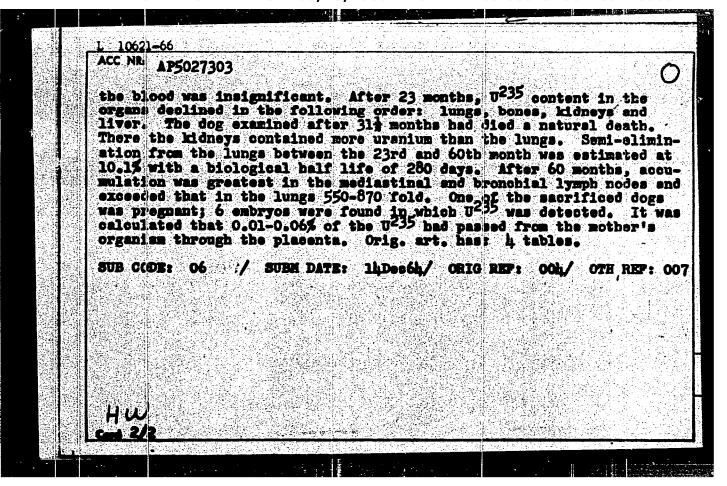
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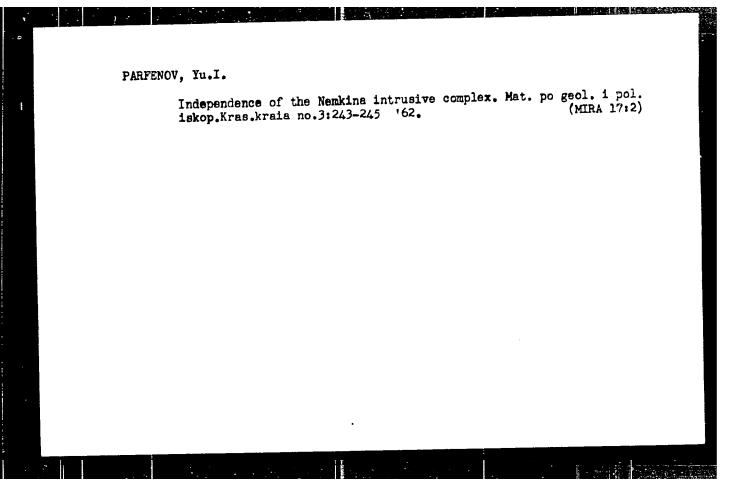
TITLE: Distribution of uranium in the dog organism at periods long after the inhalation of uranium oxide

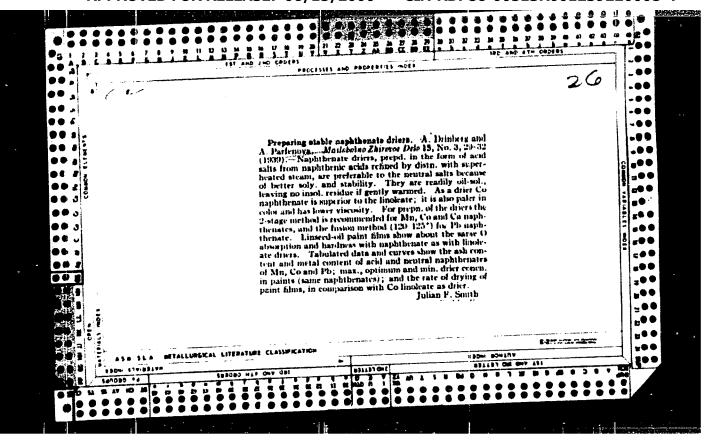
SOURCE: Meditainskaya radiologiya, v. 10, no. 10, 1965, 50-5h

TOPIC TAGS: experiment animal, isotope, ien distribution, uranium compounds chestual labelling Animals inhalation, uranium compounds was studied with labeled U20, aerosol (U-32 and U238). The animals inhalated an aerosol containing 310.10-4 - 63h.10-4 mg/1 for 60 minutes daily for 5-7 days, a total of 300-420 minutes, and were then observed for up to 5 years. The animals organs were examined shortly after 23, 312 or 60 months by luminescence and radiometry to determine uranium contents. No difference was seen for the 2 isotopes. In the sug dog exertificed 20 minutes after 60 minutes inhalation of 135.10-403-08 mg/1, the highest content was found in the gestrointestimal tract.

The lung retained about 29% of the inhalate material but the content in





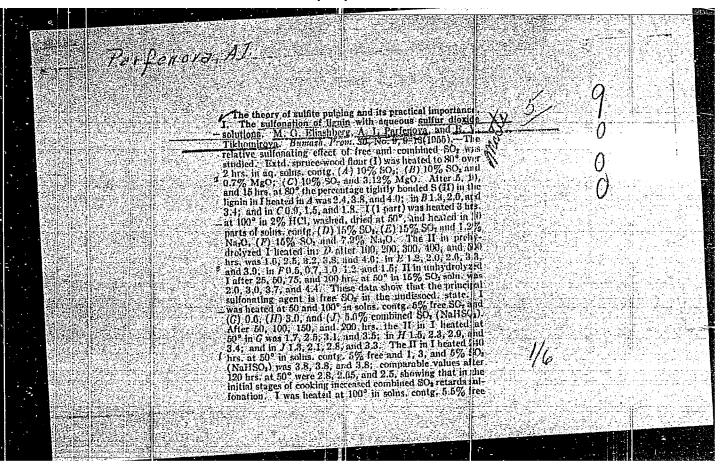


PARPENOVA. A.I.; SITHIKOVA. L.V.; TSYGANKOVA, A.D.; KABAKISHISHEVA, T.I.

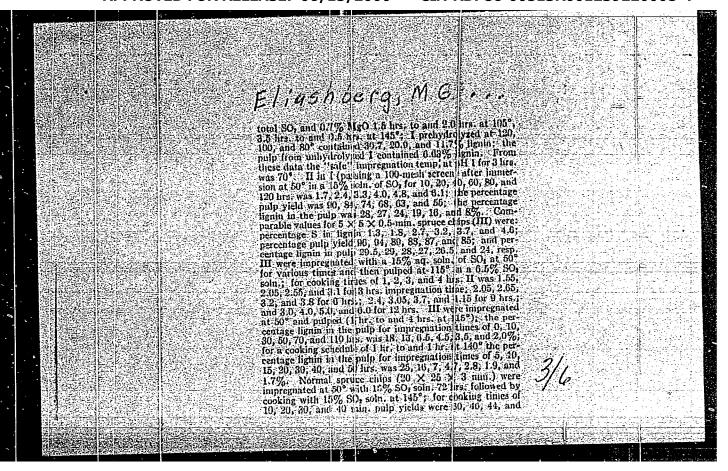
Combined method for obtaining sureomycin and vitamin B₁₂. Med.
prom. 11 no.8:10-12 Ag '57. (MIRA 10:11)

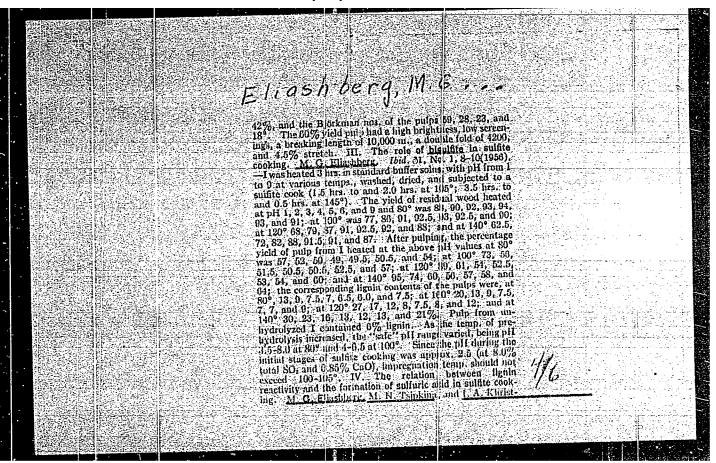
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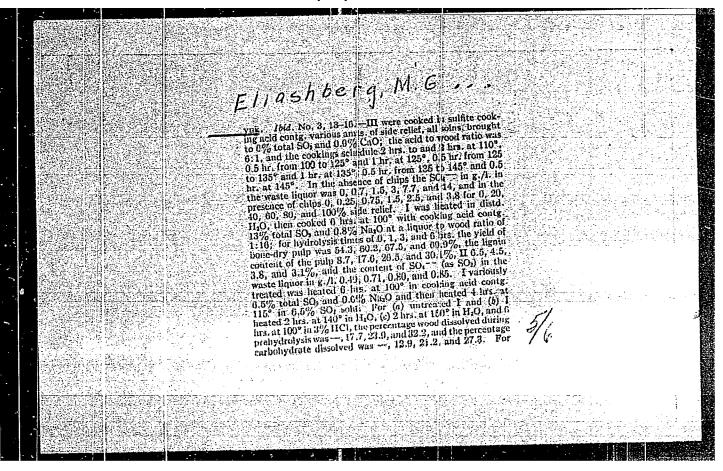
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٠.		glass. Values for percentage (our cooking time (hrs.), per- CeO, max. cooking temp., total cooking time (hrs.), per-
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		3.2, and 60; S3, 6,1 and 0.25, 47.8; -, and 35; and 68; and B 6.3 and 0.8, 130, 10.25, 47.8; -2 and 0.8, and 0.8,
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	PERFECT ENGINEERS OF THE PERFECT OF	and B 6.2 and U.8, 133, 10.25, 7, and 33 and B 6.3 and 0.8, 6.4 and 0.8, 130°, 5.25, 45.2, 7, and 33 and B 6.3 and 0.8,
	网络多数军队建设设置于 图5日8	
		130, 6, 15.0, 0.2; fill of the same quartz accelerated lightin sulfountion. I in glass and quartz
	图7000全国特别技术以及2012年2017	
	所。1978年的1980年日日本文学中的元文中	SO, and To Cau, II was Joint Lake Keavs
	的数据基本的	glas banbs.
	国际企业等等等的	建筑水源设计器等域域的设计器等级设计等级设计器等级设计器等的设计器等级设计设计设计设计设计设计设计设计设计设计设计设计
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Mew data on the theory of sulfite wood pulp cooking and their practical significance. Bum.prom. 30 no.10 no.10:5-7 0 '55.

(MLRA 9:1)

1.TSentral'nyy nauchno-iseledovatel'skiy institut bumagi.

(Wood pulp)

ACC NRI AP6035879 (A,N) SOURCE CODE: UR/0413/66/000/020/0104/0104

INVENTOR: Gol'dat, S. Yu.; Sokolova, R. V.; Firsova, A. F.; Kadakova, L. P.; Parfenova, A. I.; Karakishisheva, T. I.; Stepanova, N. V.

ORG: none

TITLE: Actinomyces aureofaciens strain LSB-181, producing chlortetracycline and tetracycline. Class 30, No. 187242. [Announced by All-Union Scientific Research Institute for Antibiotics (Vsesoyuznyy nauchroissledovatel'skiy institut antibiotikov)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 104

TOPIC TAGS: antibiotic, drug, Actinomyces aureofaciens, chlortetracycline, tetracycline

ABSTRACT: An Author Certificate has been issued for strain LSB-181 of Actinomyces aureofaciens. Light-sensitive mycelia in 5—6 mm colonies appear on its tenth day of growth on no. 12 organic agar medium at 28C. On no. 11 synthetic medium, dirty-white colonies 2.5—3 mm in diameter appear, and on pea medium, brown, raised, wrinkled, as porulating colonies seven mm in diameter are found. Milk is completely peptonized on the tenth day, and coagulation is noted on the 15th day, at which

Card 1/2 UDC: 615.45:615.779.931

time the gelatin is also slightly liquified. The sporophores lack coils, and spores are rectangular and oval. Activity in laboratory conditions on regulation media with corn extract is of the order of 5000-5600 j/ml. Also, this strain is resistant to actinophages 22 and 22a. [WA-50]										
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YEGOROV, N.M.; LEVINA, A.A.; VASILENOK, Yu.I.; KONOPLEV, B.A.; PARFENCYA, A.M.; KASHIRINA, N.B.

Effect of impurities in the solvent on the synthesis of low pressure polyethylene. Plast. massy. no.9:1-4 *65. (MINA 18:7)

VASIL'YEV, V.P.; VASIL'YEVA, V.N.; KLINDUKHOVA, N.A.; PARFENOVA, A.N.

Equilibria in aqueous solutions of calcium, strontium, and barium nitrates. Izv.vys.ucheb.zav.;khim. i khim.tekh. 6 no.2:339-341 '63. (MIRA 16:9)

l. Ivanovskiy khimiko-tekhnologicheskiy institut, kafedra
araliticheskoy i fizicheskoy khimii.
 (Alkaline earth nitrates) (Complex compounds)

PARFENOVA, A.V.; USKOV, V.S.

Refining and analysis of benzoic acid. Nov. nauch.-issl.
rab. po metr. VNIIM no.1:17-21 '63. (MIRA 17:9)

5.8500	S/081/62/000/006/098/117 B162/B101	
5.8500 1.8060	·	
AUTHORS:	Parfenova, D. S., Sokolova, Z. F., Finkel', E. E., Chmutov, K. V.	1
TITLE:	Study of the effect of ionizing radiation on the moisture penetrability of polyethylene	
PERIODICAL:	Referativnyy zhurnal. Khimiya, no. 6, 1962, 614, abstract 6P31, (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu atomn. energii, v. II, 1959, Tashkent, UzSSR, 1961, 389-395)	. 1
irradiated wiestablished is slightly, whi The drop in idensity of po The rise in p	th Co ⁶⁰ gamma-rays in a dose range of 46 to 299 Mrad. It is that the diffusion coefficient after irradiation in air drops the coefficients of penetrability and solubility increase. The diffusion coefficient is associated with the increase in objectively ene through cross-linking as a result of irradiation. Polarity, i.e., the development of carbonyl, carboxyl, and the polymer, and its conversion from a hydrophobic of a hydrophilic one. The increase in the coefficient of	

Study of the effect of ionizing	S/081/62/000/006/098/117 B162/B101				
moisture penetrability is connected with the rise in solubility. The substantial increase in polarity of polyethylene irradiated in air is confirmed by measurements of the dielectric properties. [Abstracter's note: Complete translation.]					
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, Pe, rfenora, E.I.

USSR/Soil Science. Physical and Chemical Properties of Soils.

I-3

Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22447

Author : Parfenova, E.I.

Inst Title

: The Investigation of Podzol Soil Minerals in Connection With

their Genesis.

Orig Pub: V sb.: Kora vivetrivaniya. No 2, M., AN SSSR, 1956, 31-44

Abstract: A study was conducted of the soddy strongly podzol soil of Ostarkina, Moscow oblast', situated in the upper plain portion of a plateau under a secondary birch park-forest on a dense grass cover. To prepare the samples for minerological analysis, they were divided into fractions by Sabanin's method, the parts measuring > 2; 2-1; 1-0.5; 0.5-0.25; 0.25-0.10; 0.10-0.01; and <0.01 mm. The examination of minerals in fractions larger than 0.25 mm was conducted under a binocular magnifier, particles smaller than 0.25 were first analyzed gravitationally on a centrifuge with a Moshev gyrostat and Tul liquid. Mineral

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-6-

USSR/Soil Science. Physical and Chemical Properties of Soils.

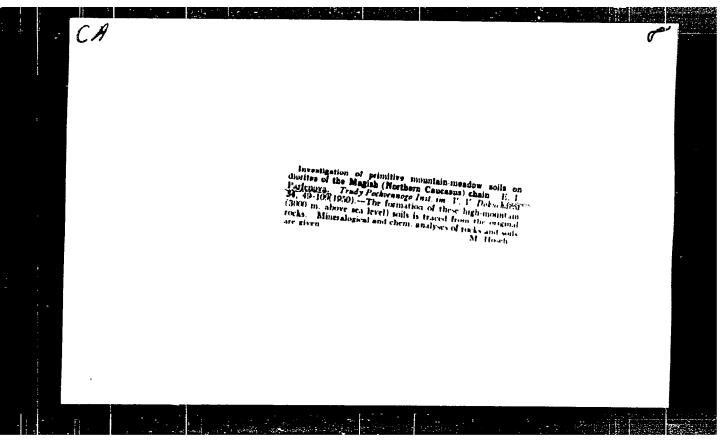
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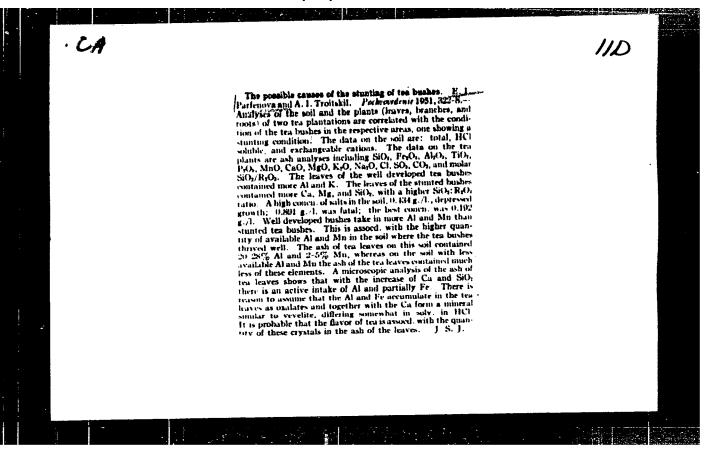
Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22447

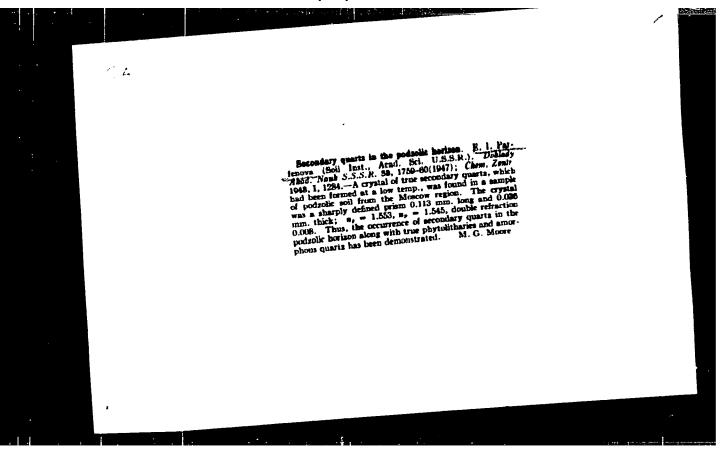
determination was conducted by the immersion method. Also a microscopic examination was conducted of plane-parallel microsections prepared from soil without disturbing its structure. The author concluded that in formation of the podzol horizon of clayey podzol soils, the essential role belongs to secondary quartz. In the alluvial horizon of podzol soils, the specific soil minerals of clays which belong to ferrous beidellite (montmorillonite group) are synthesized. A biogenic origin is ascribed to the minerals in clays of the alluvial horizon. The analytical data are in 7 tables. The paper is illustrated.

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-7-







IVANOVA, Ye.; PARFENOVA, G., inzhener-normirovshchik

Advanced work practices of the sifter V. Vorob'eva-Chinova.

Muk.-elev. prom. 30 no.3:6-7 Mr '64. (MIRA 17:4)

1. Moskovskaya mashinoispytatel'naya stantsiya Vserossiyskogo ob"yedineniya khleboproduktov. 2. Starshiy inzhener-normirovshchik Moskovskoy mashindispytatel'noy stantsii Vserossiyskogo ob"yedineniya khleboproduktov (for Ivanova).

KUTSENOK, B.Yo.; PARFENOVA, G.A.; VINOGRADOV, P.A.; PASKHALIS, T.K.

Polymerization of hatadiene with acrylonitrile in the presence of redox systems. Kauch.i rez. 22 no.2:1-4 F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni Lebedeva.

(Butadiene)

(Acrylonitrile)

(Polymerization)

S/138/63/000/002/001/007 A051/A126

AUTHORS:

Kutsenok, B.Ye., Parfenova, G.A., Vincgradov, P.A., Paskhalis, T.K.

TITLE:

Butadiene polymerization with nitrile of acrylic acid in the pre-

sence of oxidation-reduction systems

PERIODICAL: Kauchuk i rezina, no. 2, 1963, 1 - 4

TEXT: Composition and conditions of polymerization are given for butadiene with nitrile of acrylic acid in an emulsion at 30°C and in the presence of Nekal, using oxidation-reduction systems. The polymerization of the benzene-petroleum-resistant CKH-18 (SKN-18), SKN-26 and SKN-40 rubbers is initiated by free radicals, formed in the decomposition of potassium persulfate, under the effect of an amine type activator. The following oxidation-reduction systems were tested as new, more active initiators of polymerization: a) isopropylbenzene hydrogen peroxide (hyperis), rongalite, and iron-trilon complex, for polymerization in an alkaline medium; b) hydrogen peroxide and rongalite, for polymerization in an acid medium. The initiating system for the polymerization had the following composition (in weight parts to 100 w.p. of monomer): for the alkaline medium -

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Butadiene polymerization with nitrile of

S/138/63/000/002/001/007 A051/A126

rongalite 0.3, trilon B 0.06, $FeSO_4 \cdot 7H_2O$ 0.022, hyperis 0.2; for the acid medium - rongalite 0.2. The pH of the aqueous phase was 8 - 11 and 6 -6.5, respectively. Experimental data showed that the application of a rongalite system, both in an alkaline, as well as acid medium, reduces the duration of polymerization of the butadiene with nitrile of acrylic acid, by at least 1.5 - 2 times, and ensures good reproducibility of the process. The latexes have a sufficiently high tensile strength. The suggested composition is accepted as optimum in an acid medium. A change in the pH from 8.5 to 11 in an alkaline medium does not affect the rate of polymerization. This also applies to a change in the trilon content from 0.01 to 0.06% of the monomer weight, provided the initiator is measured out during the process gradually. General experiments led to the recommendation of the following ingredients of the oxidation-reduction system in an alkaline medium: rongalite 0.1 - 0.15, trilon B 0.01, $reso_4 \cdot 7H_{20}$ 0.005, hyperis 0.15 - 0.2, pH of the aqueous phase 9.0 - 10.5. The process duration (to a polymerization depth of 68 - 70%) for SKN-18 is 8 - 9 h, for SKN-26 7 - 8 h, for SKN-40 4.5 - 5.5 h. In an acid medium, the following composition of the oxidation-reduction system is recommended: rongalite 0.15 -0.2, hyperis 0.15 - 0.2, pH of the aqueous phase 5.5 - 6.0. The process du-

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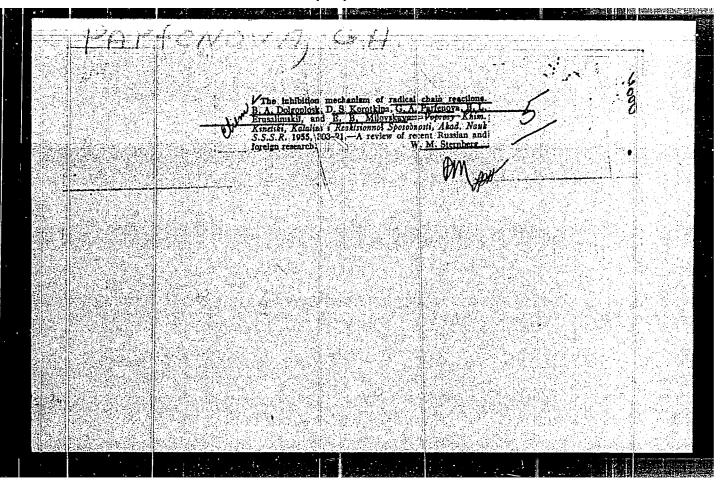
Butadiene polymerization with nitrile of

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ration in this case is: SKN-18 6 - 7 h, SKN-26 4.5 - 5.5 h, SKN-40 4 - 4.5 h. It is concluded that in the polymerization of butadiene with nitrile of acrylic acid at 30°C and in the presence of Nekal, the use of oxidation-reduction systems, consisting of isopropylbenzene hydrogen peroxide, rongalite and iron-triton complex (in an alkaline medium) and isopropylbenzene hydrogen peroxide and rongalite (in an acid medium), increases the rate of the process by a factor of 1.5 as compared to rates achieved in the presence of a potassium persulfate-triethanolamine system. Rubbers produced with a rongalite system do not differ from serial-production rubbers. There are 2 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber imeni S.V. Lebedev)

Card 3/3



PARFENOVA, G.A.

Dolgoplosk, B. A., Parfenova, G. A.

79-11-37/5€

TI TLE:

Reactions of Free Radicals in Solutions

(Reaktsii svobodnykh radikalov v rastvorakh).

XII. Investigation of the Mechanism of the Inhabiting Action of Polyphenols and Arcmatic Amines Upon the Process of an Initiated Polymerization (XII) Inachemye mekhabiama ingibiruyushchego deystviya polifenolov 1 aromaticheskikh

aminov na protsess initalirovannov polimerazatsii)

PERIODICAL: Zhurnal Obshchey Khimil. 1957, Nr 11 pp. 3063-3087 (USUR)

ABSTRACT:

Polyphenols and aromaias amines are widely used as takibicats in initiated polymerications and exidations. In spile of many experiments it was hitherto not possible to determine thour effect. Most of the researchers think that the inhibiting action of phenols and aromatic amines is based or whenr direct reaction with peroxides, hydroperoxides or with the initial active centers which are starting points of the chain-process. It was earlier shown by the authors that the inhibiting action of polyphenols and aromatic amines in the case of a thermal polymerication to the full only becomes effective in the presence of oxygen or metallic salts with variable valency, the polyphenols and aromathi amines tring

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