SOV/115-59 -2-27/38

8(2) AUTHOR:

Yugov, V.A.

TITLE:

A Simple Method of Widening the Band of Working Frequencies of a Bolometer in the Centimeter High Frequency Range (Prostoy metod rasshireniya polosy rabochikh chas-

tot plenochnogo bolometra v s.v.ch. diapozone)

PERIODICAL: Izmeritel'naya tekhnika, 1959, 20, Nr 2, p 50 (USGR)

ABSTRACT:

The author states that the bolometer is being increasingly used to measure centimeter high frequency output. As the band of the working frequencies is not sufficiently wide for measuring ranges adequately, a simple method has been developed to improve this situation, using quartz tubes. Tests show that quartz tubes widen the band of working frequencies by 20-25%. Further research is now in progress on using quartz and other dielectric tubes to this end. There are 1 graph and 3 references,

Card 1/1

2 of which are Soviet and 1 English.

24(3) AUTHORS: D'yakov, G. P., Yugov, V. A.

sov/48-23-3-34/34

TITLE:

On the Report by I. M. Puzey and B. V. Molotilov (Pc doklass I. M. Puzaya i B. V. Molotilova). "Magnetostriction of the Alloys Nickel-iron-molybdenum" (Vol 22, Nr 10, p 1244) ("Marchitostriktsiya splavov nikel'-zhelezo-molibden" (t.22, No 10. str.1244)). Use of Thin Films as Resistance Tensioneters for Measuring Magnetostriction (Primeneniye tonkikh plendy kachestva tenzometrov soprotivleniya dlya izmereniya

striktsii)

Izvestiya Akademii nauk SSSR. Seriye fizicheskaya, 1959, Vol 23, Nr 3, p 424 (USSR)

ABSTRACT:

In the report great attention was paid to the completion of the method of measuring magnetostriction. This problem is without any doubt of great importance. In this connection the results of measurement are given which were determined by means of new tensiometers of thin films. Thin films of Constantan and other substances were used as resistance tensiometers; they were applied to the sample by evaporation in vacuum. The first experiments were carried out with an oxidized nickel sample. Magnetostriction was measured at all

Card 1/2

On the Report by I. M. Puzey and B. V. Molotilov. SOV/48-23-3-34/34 "Magnetostriction of the Alloys Nickel-iron-molybdenum" (Vol 22, Nr 10, p 1244). Use of Thin Films as Resistance Tensiometers for Measuring Magnetostriction

angles possible between the direction of measurement and the applied magnetic field. The measuring results are given on the figure. Herefrom can be seen that longitudinal magnetostriction is twice as big as transversal magnetostriction. This is in agreement with the second formula for even Akulov effects. The positive results obtained with new tensiometers indicate that the latter will find a wide field of application in measuring magnetostrictive and other deformations. Then

Card 2/2

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5/120/60/000/02/049/052 E140/E335

AUTHOR:

Yugov, V.A.

TITLE:

Method of Preparing Differential Photoresistances

PERIODICAL:

Pribory i tekhnika eksperimenta, 1960. No 2

p 160 (USSR)

ABSTRACT: A method of modifying a Soviet photoresistance (FSK-1, 2, etc.) to obtain a balanced type is

described. This is a substitute for type FSK-7'.

which is not yet produced in large enough quantities

to satisfy demand.

There are 2 figures and 1 Soviet reference.

Vsesoyuznyy nauchno-issledovateliskiy institut ASSOCIATION:

fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy

(All-Union Scientific-Research Institute for Physics-

Technical and Radio Measurements)

SUBMITTED:

December 17, 1958

Card 1/1

84653

S/115/60/000/010/008/028 B021/B058

96180 AUTHORS:

Yugov, V. A. and D'yakov, G. P.

TITLE:

Film Tensiometers for Measuring the Magnetostriction of

Ferrites 2/

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 10, pp. 31-32

TEXT: Wire-type resistance strain gauges were used for measuring magnetostriction. Layers of glue and the insulating support in the tensioneters
restrict a further increase of measuring precision. The successful
application by the authors of film tensioneters for measuring the magnetostriction of nickel permitted to develop this method with reference to
ferrites, thus making it possible to improve somewhat and simplify the
design of film tensioneters. The finished strain gauges were subjected
to artificial aging, in order to stabilize the properties. Magnetostriction was measured by G. P. D'yakov's method. Data for the ferrite
samples No. 7 and No. 73 are mentioned next. The film tensioneters
operate stably even at comparatively great temperature fluctuations
Since the sensitive layer is applied directly to the ferrite surface

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Film Tensiometers for Measuring the Magnetostriction of Ferrites

81653 S/115/60/000/010/008/028 B021/B058

without glue and supports, errors which are observed in glued-on tensioneters during heating do not affect the precision of measurements. It became possible to study the temperature dependence of the magneto-striction of ferrites, as the layers of nichrome and some other alloys show high stabilities up to 300-400°C. There are 7 references: 5 Soviet and 1 British.

Card 2/2

25807 8/048/61/025/005/021/024 B117/B201

24,2200

AUTHORS: Yugov. V.

Yugov, V. A., and D'yakov, G. P.

TITLE:

Using thin films for measuring magnetostrictive and other

deformations

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 25, no. 5, 1961, 647-650

TEXT: The present investigation was the subject of a lecture delivered at a symposium on thin ferromagnetic films (Krasnoyarsk, July 4 to 7, 1960). The authors developed a new type of strain gauge for the measurement of magnetostriction, in which the main shortcomings of earlier types were completely eliminated. The resistance strain gauges were provided by thin films of constantan and constantals sputtered in vacuum onto the pecumon concerned. The first experiments were conducted on an exidized nickel disk. The exide layer is formed under the following conditions: the nickel disks are heated in an electric furnace up to 800-850°C and hold at this temperature for 30-40 minutes, whereupon they are quickly cooled in the air. The exide layer forming in this connection exhibits

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CERCIO CONTROL DE CONT

Using thin films for measuring ...

good insulating properties and is closely connected to the nickel. It was established (Ref. 5: Brynkhatov N. L., D'yakov G. P., Sb. "Primeneniya ul'traakustiki k issledovaniyu veshchestva", Izd, MOPI, vyp. 7, 111 (1958)) that the presence of such a layer does not impair the physical properties of the material. Before sputtering the film a mica form or a foil of shape or size required for the strain gauge is applied onto the desired nickel disk. Certain difficulties are met when bringing about the contact between the feed wires and the strain gauge. For this purpose, silver- or gold electrodes were additionally sputtered in vacuum onto the ends of the pick-up. For silver electrodes the contact was brought about with the aid of Wood's alloy; for gold electrodes, with the aid of a gallium alloy. The measurements of magnetostriction performed with these disks have shown that the novel strain gauge type ensures reliable results. For the measurement of magnetostriction, the strain gauges were connected to one of the arms of a d-o bridge circuit. A sensitive mirror galvanometer serves as indicator in the bridge diagonal. The bridge was compensated without a magnetic field. When the magnetic field was spplied, a change occurred in the specimen dimensions and in the resistance of the strain gauge owing to magnetostriction. The bridge compensation was outbalanced thereby. Due to

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Using thin films for measuring ...

the deviations of the galvanometer it is possible to calculate the magnitude of magnetostriction from formula

 $\lambda = \Delta R_{\rm E}/(1+2\sigma)R \cdot (\alpha/\beta)$

(ΔR_E - calibrating resistance; β - deviation of galvanometer caused by calibrating resistance; R - resistance of strain gauge; σ - Poisson's ratio of strain gauge material; α - deviation of galvanometer due to magnetostriction). The successful application of film-shaped non-glued strain gauges of nickel magnetostriction (Ref. 1: D'yakov G. P., Yugov V. A., Vestn. Mosk. un-ta, Nº 5, 229 (1957), and Ref. 6: D'yakov G. P., Yugov V. A., Vestn. Mosk. un-ta, Nº 3, 237 (1958)) permitted this method to be worked out for ferrites. Nichrome and constantan were first chosen as materials for the expansion-sensitive layer. These layers are sputtered in vacuum. In addition, a linear vaporizer is used (Ref. 7: Bochkareva V. A., Avt. svid. Nº 16907 ot 18 aprelya 1941 g.). To obtain a uniform layer, the diameters of thin tungsten-, nichrome-, or constantan wires (0.1-0.3 mm), wound around a thick (0.8-1.2 mm) tungsten wire, must be uniform. Sputtering must take place

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Using thin films for measuring...

in a determined temperature range (Ref. 8: Holland L., Vacuum Deposition of Thin Films, London, 1956), so as to conserve the quantitative composition of the alloy in the layer. The feed wire to the measuring device was prepared in the following manner: conductive coin-shaped silver pieces are burned into the ferrite specimen. Wires or narrow strips are soldered onto them. Experiments have shown that the electric contact between the nichrome layer and silver is not sufficiently stable. The contact resistance is sometimes higher than the layer resistance. To avoid this, it has been necessary to use additional contact layers. They are likewise sputtered in vacuum onto the expansion-sensitive layer. The finished strain gauges are subjected to artificial aging to allow their properties to stabilize: heating up of the specimens at 200-300°C within 8 to 4 hours, passage of current (10-20 ma) within 8 hours. The following data were found for two ferrite specimens: specimen no 7: ferrite MgFe204; \$p>109 ohmsom; film expansion pick-up made of nichrone, resistance of pick-ups 828 chms; magnitude of striction $6.25 \cdot 10^{-6}$, $I_8 = 85$ Gs. Specimen no. 73: ferrite NiFe204; 0>2.108 ohmsom; film expansion pick-up

Card 4/5

25807

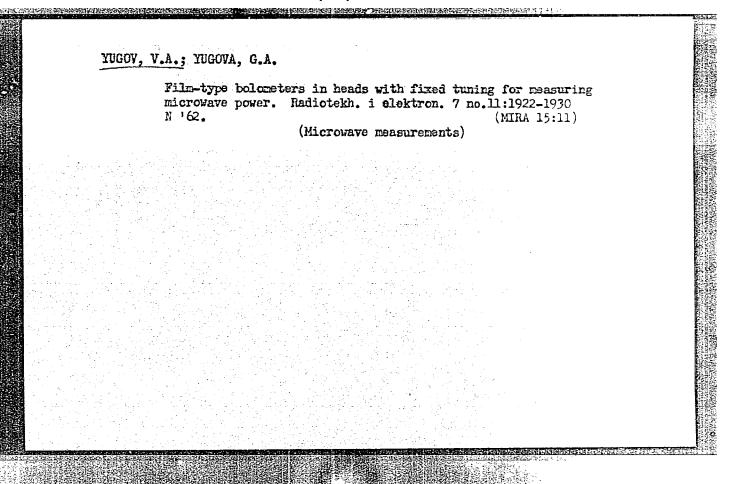
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Using thin films for measuring ...

made of nichrome; resistance of pick-ups 285 ohms; magnitude of striction $11.0 \cdot 10^{-6}$; $I_s = 240$ Gs. Film strain gauges display a stable operation even at relatively strong temperature fluctuations. Since the sensitive layer is placed directly on the ferri-type layer, no errors impair the accuracy of measurement, as usually arise with glued strain gauges during heating. Due to the high temperature stability of nichroms-, platinum-, iridium-, and other layers applied, it is possible to study the magnetostriction of ferrites (from -190° to 300°C) and the striction of piezoelectric substances depending on temperature. Data relative to these measurements will be reported separately. N. S. Akulov is mentioned. There are 2 figures and 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Kafedra obshchey fiziki Fizicheskogo fakul'teta Moskovskogo gos. universiteta im. M. V. Lomonosova (Department of General Physics of the Division of Physics, Moscow State University imeni M. V. Lomonosov)

Card 5/5



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TABLE OF CONTENTS [abridged]:

Introduction - 3
Ch. I. Methods of obtaining thin files - 5
Ch. II. Properties and features of thin films - 26
Ch. III. Properties and files in radio measurements - 60

SUBVATED: 028-sp6L SUB CODE: 50,
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Cord 2/2

Yugov, ye M

17(11)

PHASE I BOOK EXPLOITATION

SOV/1287

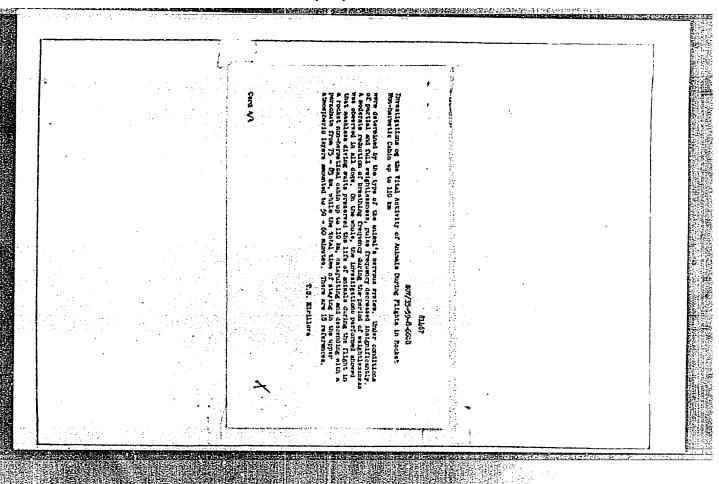
- Bakh, Igor' Sergeyevich, Oleg Georgiyevich Gorlov, Yevgeniy Mikhaylovich Yugov, and Vladimir Ivanovich Yakovlev
- Chelovek v kosmose; mediko-biologicheskiye problemy kosmicheskikh poletov (Man in Space; Medical and Biological Problems of Space Flight) Moscow, Izd-vo "Znaniye," 1958. 48 p. (Series: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya VIII, 1958; vyp. I, no. 20) 45,000 copies printed.
- Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.
- Ed.: Benyumov, O.M.; Tech. Ed.: Berlov, A.P.
- PURPOSE: This booklet is written for the general reader interested in the problems of space flight.
- COVERAGE: The book contains a brief description of the conditions which might be encountered in space flight from medical and biological points of view. It describes the problems connected with

Card 1/3

sov/1287 Man in Space (Cont.) human performance in space travel environments: effects of acceleration, cosmic radiation, pressure, temperature, weightlessness, reentry, decelerations, etc. Brief analysis is given of human requirements for space crew personnel. It is stated in this book that the Soviet Union since 1949 has organized an extensive study of these problems and has established space modiates as an index of these problems and has established space medicine as an independent branch of science. No personalities are mentioned. are no references. TABLE OF CONTENTS: 4 Speeds and Their Effect Upon Man 10 State of Weightlessness 20 Radiation and its Biological Effect Danger From Meteors. Lowered Barometric Pressure and Oxygen 24 Hunger Card 2/3

ealed Cabins and Space Suits		32
hermal Conditions in Flight		35
ater and Food Supply		39
eturn to Earth		41
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APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120004-5"

S/726/58/000/001/004/004 E195/E385

AUTHORS:

Bugrov, B.G., Gorlov, O.G., Petrov, A.V., Serov, A.D., Yugov, Ye.M. and Yakovlev, V.I.

TITLE:

Investigation of the vital activity of animals during flight in a non-airtight rocket cabin to an altitude of 110 km

SOURCE:

Predvaritel'nyye itogi nauchnykh issledovaniy s pomoshch'yu pervykh sovetskikh iskusstvennykh sputnikov Zemli i raket; sbornik statey. no. 1. XI razdel programmy MGG (rakety i sputniki). Moscow, Izd-vo AN SSSR. 130 - 149

TEXT: The use was investigated of ventilation scaphanders with oxygen masks to provide the necessary living conditions for animals during flight in a non-airtight rocket cabin to a height of 110 km and during catapulting at great flight speed at an altitude of 80 - 90 km, as well as the effect of specific flight factors on the organism of animals in the upper layers of the atmosphere. All the investigations were carried out on 12 dogs, six of which took part in two flights. The special equipment and the method of Card 1/3

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Investigation of

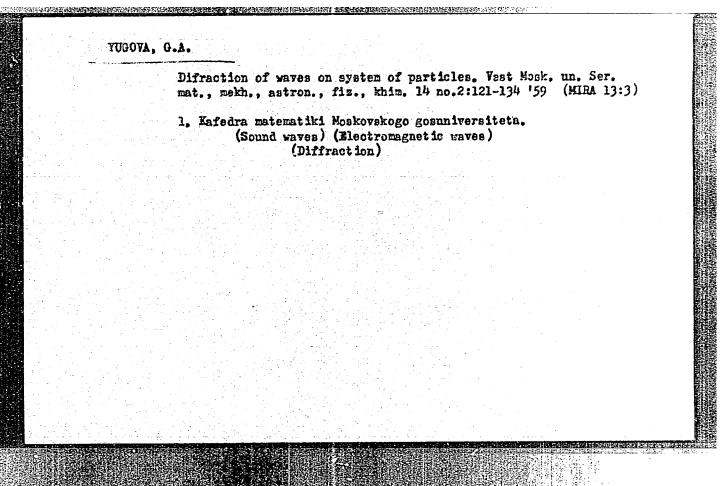
investigation are described. Catapulting at an altitude of 75-85 km at 560-730 m/sec and at an altitude of 39-46 km at 1000-1100 m/sec does not significantly affect the physiological functions of an animal. Parachute systems provide safe landing and rescuing of animals with equipment that reached an altitude of 75-85 km. Animals do not experience significant changes in the function of the circulatory and respiratory systems during flight in a rocket. The changes of the arterial pressure, pulsation and breathing are quite small. In some cases these changes are accompanied by the development of the passive-defensive reactions. The animals that were subject for 3.7 min to the conditions of complete or partial weightlessness have a tendency to certain lowering of arterial pressure and to a decrease of heartbeats. No changes could be observed in the behavior or in the physiological functions of the animals, in the pigmentation of the skin or the fur, which could be considered as a result of cosmic radiation effect during the flight. The checking of animals for 6-7 months after the flight did not give any information about changes in their health or behavior. The equipment in the rocket during the Card 2/3

Inve	s/726/58/000/001/004/004 stigation of E195/E385	
of t	t provided general registration of physiological functions be animal. Nevertheless, it is necessary to improve this pment. There are 9 figures and 2 tables.	
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YUCOVA, G. A.

Yugova, G. A. -- "The Use of the Method of Integral Equations for Diffraction Problems." Hoscow State U imeni M. V. Lomonosov. Physics Facult. Chair of Mathematics. Moscow, 1956. (Disseration for the Degree of Candidate in Physicomathemical Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114



YUGOVA, G.	A.
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YUGOV, V.A.; YUGOVA, G.A.

Film-type bolometers in beads with fixed tuning for measuring microwave power. Radiotekh, 1 elektron. 7. no.ll:1922-1930
N. 162. (Microwave measurements)

(Microwave measurements)

ENT(1)/ENT(m)/ETC/EFF(n)-2/ENG(m)/T/ENF(: EN : ACC NR: AP5027444 SOURCE CODE: UR/0181/65/C 44.55 44 65 42 - 1 AUTHOR: Hil'vidskiy, M. G.; Oswenskiy, V. B.; Rashevskaya, Vc OFG: State Design and Planning Scientific Research Institute . dustry, Moscow (Gosudarstvennyy nauchno-issledovatel'skiv kometallicheskoy promyshlennosti) TITUE: Investigation of the infrared absorption scenture of the SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965. 448-3457 TOPIC TACS: gallium arsenide, Is spectrum, semilloniuctor but ABSTRACT: Said is doped with tellurium to study to side a frared absorption and reflection and dota are obtained fective mans of electrons. Curves are given for the took function of wavelength at room temperature for preferences trations. These curves show the following commen maracter crease in the coefficient of absorption with a reduction of and 1.5 m, 2) a smooth increase in absorption with water because between 1.5 and * u. Theoretical explanations are give C, itser fan method war used to calculate the masses $e^{i\phi}$ <tum in the sectionism band on the tasis of the dreams. Lord 177

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TITLE: Description of dislocations in gallium arseni ()
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AUTHOR: Zakharov, Ye. D.; Yugova, V. V.; Kuznetosova, K. N.; Sadovnikova, L. N.

TITLE: Volume changes in semifinished products of alloy V 95 heat treatment

SOURCE: Alyminiyevy*ye splavy*, no. 3, 1964. Deformiruyemy*ye splavy* (Malleable alloys), 227-236

TOPIC TAGS: aluminum, aluminum alloy, alloy V 95, aluminum alloy heat treatment, aluminum alloy aging, aluminum alloy quenching, magnesium admixture, zinc admixture

ABSTRACT: Residual stresses in the material are the basic cause of distortion during machining. These stresses can be produced either by rapid cooling during quenching or by separation of phases from solid solution during aging, and can be alleviated in various ways, e.g., by a light pressing operation in the final die, by subjecting the part to a series of small plastic deformations alternating in sign, or by the method of thermal cycling. In technical aluminum alloys of complex composition, in which intermetallic phases precipitate during artifical aging, the change in specific volume has a complex character. In the present paper, the authors report on the volume changes in alloy V 95 during the process of aging as well as during repeated quenching. Since the lattice constant of Al

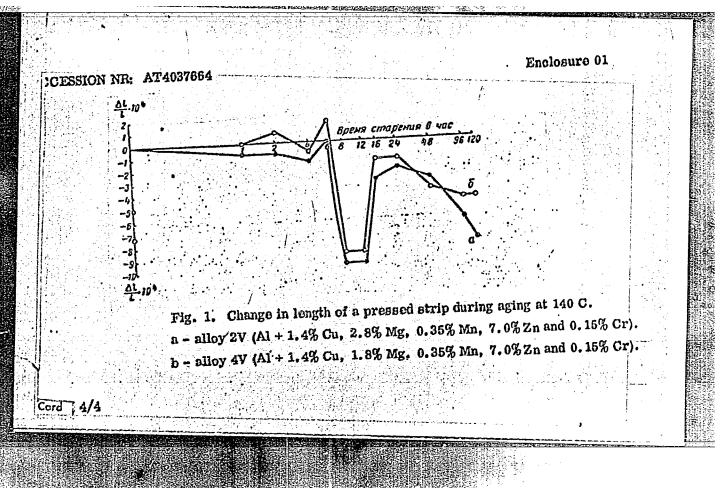
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ACCESSION NR: AT4037664

depends on the amount and kind of admittures, the chemical composition was varied slightly (1.8 or 2.8% Mg, 5.0 or 7.0% 2n, 0 or 1.4% Cu, 0 or 0.35% Mn and 0 or 0.15% Cr). Graphs are presented showing the relative elongation of tested strips versus aging time from 1 to 120 hours at 140 or 160 C (for example, see Fig. 1 of the Enclosure). In tests with specimens containing 7.0% zinc, shrinkage was observed at both 140 and 160 C. The maximal strengthening of the alloy due to aging coincided with the time of maximal shrinkage, after which the length of the specimen practically returned to its initial value. Particularly large shrinkage (0.1%) was exhibited by alloys with Cr, Cu and 7.0% Zn. For parts in which distortion during the aging process is particularly undesirable, V95 alloy with 5.0% Zn is therefore recommended, the volume changes of which are considerably lower and of a monotonous character. With regard to the influence of repeated quenching, tests were conducted with two groups of specimens. Tests with the first group, which was annealed at 450 C for 48 hrs., showed that a slight elongation occurs after the first quenching. During subsequent aging, however, shrinkage takes place, and beginning with the second cycle, the length of the specimens decreases monotonously. Tests with the second group showed that during 13 repeated quenching procedures without consecutive aging, the dimensions of the specimens decreased uniformly in all directions after each quenching. The resultant shrinkage after 13 quenchings was 1.0 - 1.3%. The character of the observed

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ACCESSION NR: AT4037664 shrinkage showed that this phenomenon is not related to processes of phase transformation. The authors recommend that repeated heat-treatment (if such is technologically required) be applied only to rough-machined details. "I. N. Sudzilovskaya, A. I. Dzevoyed and I. P. Tigina also took part in the experimental work." Orig. art. has: 9 figures. ASSOCIATION: none SUBMITTED: 00 DATE ACQ: 04Jun64 ENCL: 01 SUB CODE: MM NO REF SOV: 001 OTHER: 002



APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120004-5"

YUGOVA, YE. D.

137-58-5-8758

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 5 (USSR)

AUTHOR:

Yugova, Ye.D.

RESIDENCE BUILDING TO THE PROPERTY OF THE PROP

TITLE:

Concentration Tests Performed on Galimyy Ore Deposits for Purposes of Exhaustive Extraction of Useful Components (Issledovaniye na obogatimost' rudy mestorozhdeniya Galimogo s Iselyu kompleksnogo izvlecheniya poleznykh komponentov)

PERIODICAL: Tr. Vses. Magadansk. n.-i. in-ta za 1956 g. Magadan, 1957. pp 91-95

ABSTRACT:

Secondary minerals of lead-bearing ore are primarily composed of sulfide compounds of In, Bi, Co, Au, Ag, Ge, and Cu For the plant Nr 14-II system may be recommended whereby a Cu bulk concentrate containing maximum amounts of extracted Zn, Pb, In, Au, and Ag is obtained. Selective flotation mistible employed for sulfides, obtained through crushing of raw gray to tional Sn concentrate, as well as for the collective sulfide concentrate in the form of slurries which can be obtained by means of collective flotation of all this band along

of collective flotation of all thickened slurries.

1. Sulfide compounds—Processing 2. Lead ores

A Sh

Card 1/1

--Processing

TUGRAKH, A.K. Diagnosis and treatment of actinomycosis. Zdravookhranano.3:32-35 My-Je '60. 1. Iz protivotuberkuleznogo dispansera g. Bendery (glavmyy wrant U.F. Belotina). (ACTINOMYCOSIS)

YUGRAKH, A.K.

***Tight of aseptic necrosis of the corpus vertebrae. Vest. remainder no.41/1-72 J1-Ag '64.

1. Kostno-tuberkuleznyy sanatoriy "Dermenzhi", Moldavskaya SSP.

YUKHAS, Alam [Yuhass, Adam] Improving the technology of alumina production. TSvet. met. 33 no.9:58-61 S '60. (MIRA 13: (MIRA 13:10) 1. Glinozemnyy zavod Almashfyuzite, Vengriya. (Hungary--Alumina)

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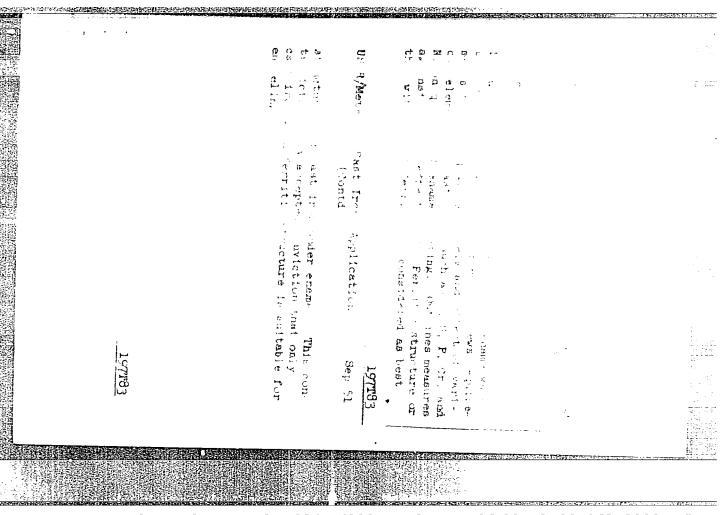
Resonditioning caterpillar links of peat-spreading machines. Torf. prom. 35 no.8:31 158. (HIRA 11:12)
1. Torfopredpriyatiya Chapalevskoya bagno, Brestskaya oblast'. (Peat machinery-Maintenance and repair)

YUKALOV, I.M.; BIDULYA, P.N., zesl. deystel' nauki i tekhniki

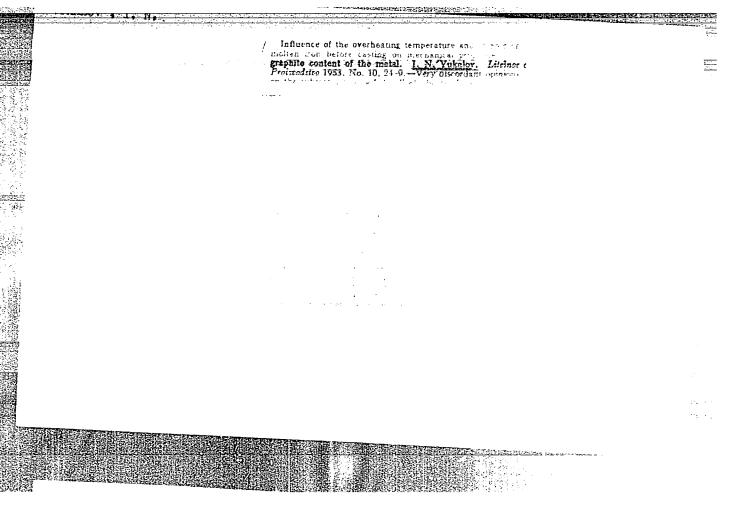
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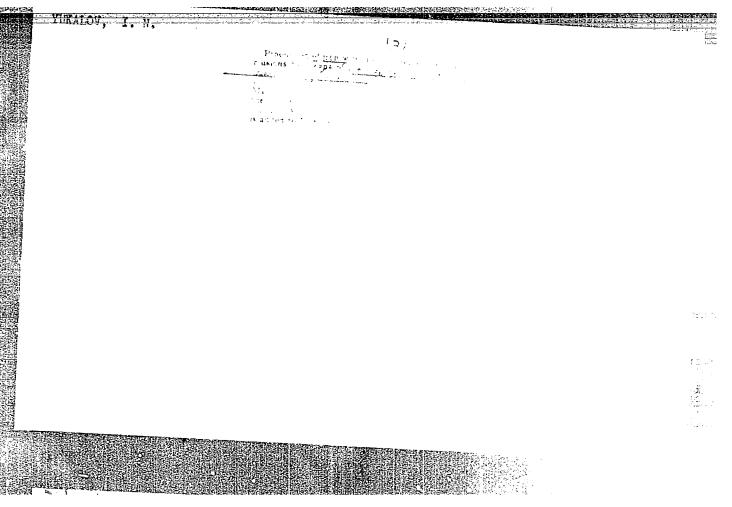
[Castings of chemically stable alloys] Otlivki iz khimicheski stoikikh splavov. Moskva, Mashinostroenie, 1964. 230 p.

(MIRA 17:11)



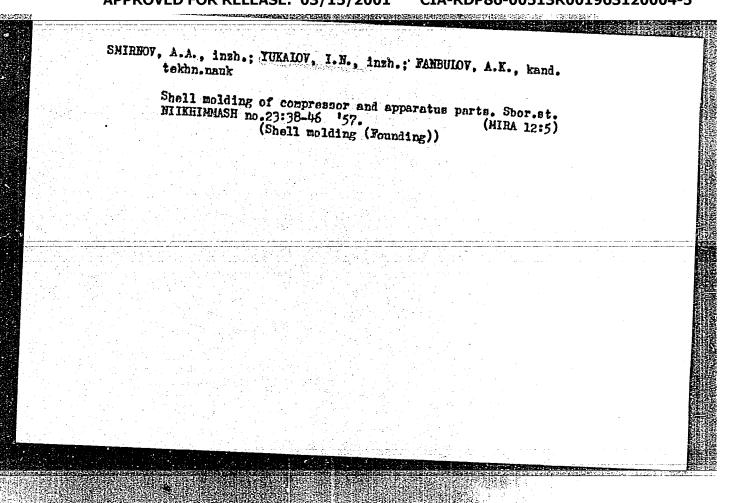
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Journal of the Vol. 176 P. Mor. 1954 Foundry Proc	the Iron and art 3 tice	Steel Insti	itute 1933, 3 mould; cylinda	de rillov, and I. N. (1. 2-4). [In Ruse; ing arrangement bud cylinder block	Jihder Bocks. A. Inkalov. (Littinovasian). Details are a for the production, as at a Russian factor as at a Russian factor.	I. Budynev. Prostrekten, stiven of some of high equality ory. F. E.
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SHIRNOV, A.A., inshener; YUKALOV, I.N., inzhener; FAHBULOV, A.K., kandidat tekhnicheskikh nauk.

Compressor and instrument parts casting in shell molds. Lit.proisv. no.7:8-10 J1 '56. (MLRA 9:9)



SOV/137-59-2-4592

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 2, p 322 (USSR)

AUTHOR: Yukalov, I. N.

TITLE: Causes of Formation of Blisters Beneath the Crust of Cast Iron and Their Effect on the Quality of Enamel (Prichiny obrazovaniya podkor-

kovykh rakovin v chugune i ikh vliyaniye na kachestvo emali)

PERIODICAL: Sb. statey. Vses. n.-i. i konstrukt. in-t khim. mashinostr., 1957 Vol 23, pp 59-66

ABSTRACT: As a result of experimental verification of the effect of S and Mn content of cast iron and also of the temperature of overheating and casting of iron on the formation of subsurface blisters, it was found that blisters are formed beneath the crust whenever a certain critical value for the product of [%Mn].[%S] is exceeded. The Mn content in cast iron which is to be enameled should not be much higher than the ratio required for combining with S. To forestall the formation of blisters underneath the crust it is necessary to raise the casting temperature of the metal. The author proposes a hypothesis that the formation of the flaw is associated with the reaction (at low temperatures) MnS + Card 1/1slag + graphite.

Ts, G.

YUKALOV, I.N., Cand Tech Sci-(diss) "Study of the effect of the composition and atructure of best iron in the quality of onessel coverings of the chemical apparatus casts." Mos, 1958. 19 pp (Min of Migher Education USSR. Mos Inst of them Machigan Inter), 110 copies (KL, 22-58, 110)

-121-

18(4,7) AUTHOR: Yukalov, I.M., Engineer SOV/129-59-7-17/25 TITLE: Corrosion Resistant Nickel-Silicon Alloys PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 7, pp 39-42 (Ugga) ABSTRACT: The progressive development of the chemical and oil industry is closely related to the learning of new technological processes. The lack of new types of alloys has hampered up to now the propagation of no technologies. The first problem is the existence of materials able to regenerate acid. For example, oil and chemical industry uses sulphuric acid for production of gasoline, lubricants, and synthetic reher. Regeneration of the used acid can be done in an open manner or process causing the loss of large quantities of acid. Far more economic is regeneration by means of vacuum installations. The recommended equinment is not propagated as there is a lack of the necessary materials and technologies. Abroad alloys from

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tantalum, Ni, and molybdenum are used. Studies of the

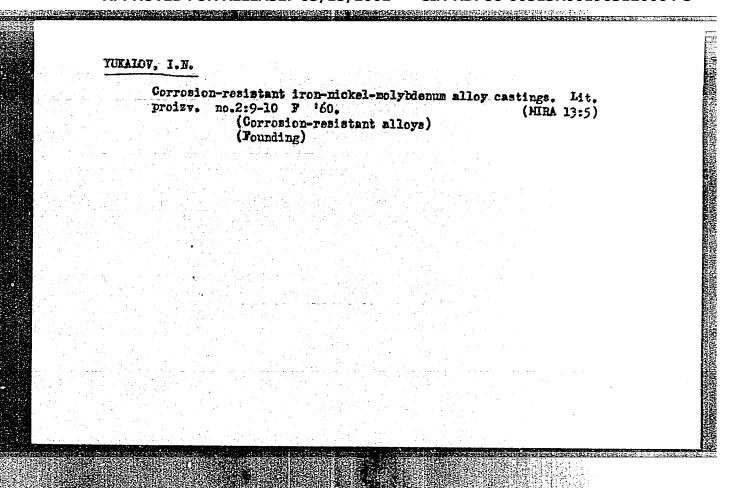
SOV/128-59-7-17/1

Corrosion Resistant Nickel-Silicon Alloys

literature and of the analysis revealed that this raterial is too complicated and far too expensive. District the requirements is widely used. (Hastalloy, Marcon Stellite Co., 1940: "Petroleum Refiner", Vol 34.

1955, Mr 10: Robald, F., "Werkstoffe und Vorrosici", Pd 7, 1956, Nrs 8, 9 thru 11). The properties remains by these authors have been confirmed by the expension made by the author. There follows a description of the English production method according to "Foundry Trains Instructions for welding of nickel-silicon of the instructions for welding of nickel-silicon of the Azenkov, and "Osov). There are 4 diagrams, "There photographs, 2 photographs and 10 references which are English, 3 German and 3 Covjet

Card 2/2



1416, 1496, 1454

21.30h 8/128/60/000/002/001/002 A133/A133

AUTHOR:

Yukalov, I. N.

TITLE:

The casting of parts of corrosion-resistant

ferronickel-molybdenum alloys

PERIODICAL: Liteynoye proizvodstvo, no. 2, 1960, 9-10

The article contains the results of investigations carried out by the author, engineer A. I. Budyayev and Candidate of Technical Sciences G. L. Shvarts, to study the utilization of the 3N4615 (EI461L) ferronickel-molybdenum alloy for castings of complex configuration, particularly of machine parts of various type for chemical machinery. The author points out that, although high-strength nickel-molybdenum alloys have been used for some time (in the Soviet Union, the grades 9N460 (EI460) and HNMO (NIMO) abroad, the grades Hastalloy B, Bergite and others have found the most widespread utilization) no data on the casting properties, casting and pouring conditions and on the technology

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21304

The casting of ...

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of mold and core fabrication are available in the technical literature. In a number of sources the chemical composition of the EI461L alloys is indicated as follows (in %): 24-32 Mo, Fe - 3-70 Cr < 1; Si < 1; Mn < 1; C < 0.12, traces of sulfur and phosphorus, the rest being nickel Tests carried out by the authors proved that a F content in the cast alloy, exceeding 6%, lowers the corrosion resistance in 29% hydrochloric acid at 70°C and in 21% HCl at boiling temperature. An Mo content of less than 30% consideratly reduces the corrosion resistance of the alloy in 21% HCl. In the cast state the structure of the ferronickel-molybdenum alloy consists of a solid Mo and Fe solution in nickel, with a microhardness of 916-805 kg/mm² (fig. 1). Heat treatment increases the corrosion resistance of the alloy causing the intermediate composition to solve in the solid solution and changing their composition location and microhardness (650 kg/mm²) (fig. 2). The EI461L allowed has the following mechanical properties: 5 b 50 kg/mm² (fig. 2). The FI461L allowed has the following mechanical properties: 5 b 50 kg/mm² (fig. 2). The rolley baster annealing), a = 1.5;2.2 kgm/cm², HB 190-270. The rolley

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and annealed material has a strength of 6b≈90 kg/mm². Complete annealing is effected at 1,150-1,180°C with 20-90 minutes holding, depending on the component dimensions, and rapid cooling in air (largesize parts are cooled in water). Stabilizing annealing is taking place at 1,050-1,065°C, with 2-4 hours holding and cooling in air, which increases the anti-corrosion properties of the alloy. To increase the hardness, the components are annealed at 745-760°C with 169 hours holding and cooling in air, which makes the hardness increase to RC 50 and improves the abrasion resistance, while the corrosion resistance is lowered. The tests showed that the machinability by cutting of the alloy corresponds to that of stainless steel. The author points out that the most effective way of welding the alloy is by the oxygen-acetylene process, since it permits the preheating of the welding zone and thus prevents the formation of stresses and cracks in the components. Moreover, he recommends the alloy to be smelted in induction furnaces with basic lining, using preferably no wast charge materials. The alloy should be reduced with Mn and Si prior to adding pure Mo, while

Card 3/5

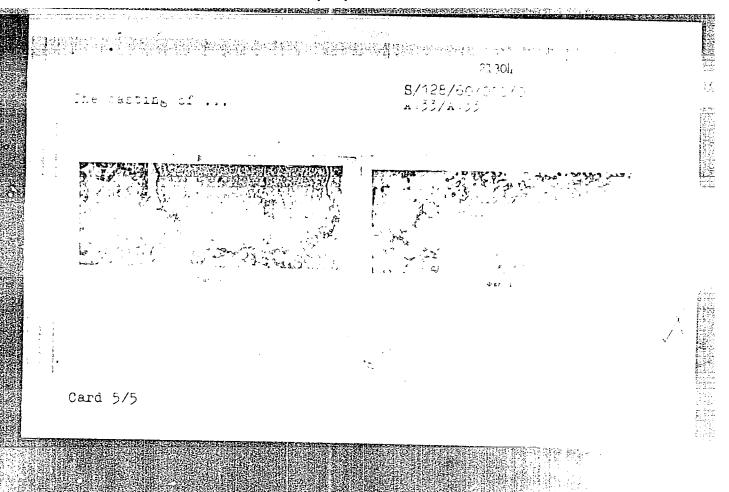
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the final reduction should be effected with aluminum during the tapping or in the ladle. The shrinkage coefficient of the alloy amounts to 2%, and it tends to form shrinkage cavities and pores. Therefore, it is necessary to avoid abrupt changes in the wall thickness of the casting and metal accumulation in individual assemblies. To avoid blowholes in the casting, the molding sand should have a sufficient surface strength and should contain a sufficient amount of binder. There are 2 figures and 15 references: 3 Soviet-bloc and 12 non-Soviet-bloc. Four most recent English-language publications: 1. "Journal of Metals", vol. 8, No. 10, 1956. 2. Hastalloy, Trade Mark, May, 1957. 3. "Steel Metal-Working Weekly", vo. 39, No. 14, 1956. 4. "Petroleum Refiner" vo. 34, No. 10, 1955.

Card 4/5



APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963120004-5"

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82096 3/184/60/000/03/08//.::

AUTHORS:

Yukalov, I.N., Candidate of Technical Sciences, Shumratova, G.N., Engineer

TITLE:

Nickel-Molybdenum and Nickel-Silicon Acidproof Alloys

FERIODICAL: Khimicheskoye mashinostroyeniye, 1960, No. 3, pp. 28 - 31

PEXT: New technological processes in the chemical industry, e.g. the evaporation of acids in a vacuum, require special equipment made of alloys with specific physical-chemical properties. For manufacturing this equi; ment certain nickel-molybdenum - silicon and nickel-chromicum-molybdenum alloys can be used. Nickel-molybdenum alloys 30 460 (E1460) 8 30 4c1 (E1460) (Corresponding to TU No. 1044), Hastelloy A, B and C have a high corrosion resistance in a number of aggressive media. Their mechanical properties are close to those of high-grade steels. The manufacturing of seamless hipesthese alloys is not mastered; electrically welded, thin-walled pipes can be used. The EI460 alloy (about 20% Mo-centent) has a high correst intesting in hydrochloric and sulfuric acids of any concentration and in their calls at 20°C. In sulfuric acid it maintains its resistance up to 50°C and at 100°C it is resistant when the concentration does not exceed 30-50%. In hydrochloric acid

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Nickel-Molybdenum and Nickel-Silicon Acidproof Alloys

of all concentration the rate of corresion is low up to 50°C. In moist chlorine and nitric acid the alloy is not corrosion resisting. Its peculiar property is its resistance in organic acids as well as in alkalis, ammonium chloride, sea and fresh water. In phosphoric acid the rate of corrosion is low either at concentrations up to 10% (at temperatures up to the boiling point) or at any concentrations but at low temperatures. The EI460 alloy is used in mixers, reactors, heat-exchangers, condensers, fittings etc. The EI461 alloy (27-30% Mo-content) is especially suitable for service in HCl of high concentrations at temperatures close to the boiling point. Its corrosion-resistance in H61 can be compared with that of tantalum and some noble metals. The highest corrosion-resistance is achieved at a certain Mo and Pe content in the alloy. According to NIIKhIMMASh in 29% HCl at 70°C and in boiling 21% HCl the rate of corrosion of the cast alloy increases sharply when the Fe-content exceeds 6%. The same is observed in boiling 21% HCl at a Mo-content below 30%. EI461 is corrosion-resisting in sulfuric acid of all concentrations at temperatures up to 50°C. When the temperature increases up to 100°C, satisfactory results can be obtained at concentrations of up to 50% only. In 75% and 98% of H2SC4, the corrosion resistance detertorates slightly. The alloy can be used for service in CO, CO2 and hydrocarbons at temperatures up to 800°C. In other media its corrosion-resistance is about the

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Nickel-Molybdenum and Nickel-Sillcon Acidproof Alleys

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same as that of the EI460, but its wear-resistance is higher and its coefficient of friction lower. These properties make it suitable for use in acidproof pumps and fittings. A chromium-nickel-molybdenum alloy (Hastelley C) is both an acidproof and a heatproof material. It is recommended for the use in structures operated under changing temperature conditions or at temperatures up to 980°C. Hastelloy C can be used in H2SO4 of all concentrations at 20°C and in 75% H2SO4 at 100°C; in HCl of all concentrations at temperatures up to 50°C. In HN03 this allow is inferior to less complex and cheaper steels like 1X18M9T (1Kh18N9T), X18H115 (Kn18N11B), X25T (Kn25T) and other. It is also less suitable than steels X25T (Kh25T), 0X23H28M3 AT (OKh23N28M3DI), 0X23H27M2T (OKh23N27M2T) for H3PO4 solutions. It is stable in moist chlorine (at 20°C) in organic acids, sea and fresh water. The alloy is used in cast parts and also in chemical equipment made of rolled material. The properties of the above-mentioned al loys can be to some extent controlled by heat treatment. By full annealing (heating to 1,150-1,220°C, molding 0.5-3.0 hours, water or air cooling) residual stresses in cast and welded pieces are removed and the machinability is improved. By stabilizing annealing (temperature of heating is about 100°C lower than for full annealing, molding not less than 2 hours, air cooling) better plastic properties and a somewhat better corrosion-resistance can be achieved. Pieces exposed to an intensive expression-erosion wear are annealed at 740-760°C (Ni-Mo alloy)

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Nickel-Molybdenum and Nickel-Sillcon Acidproof Ailoys

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or 860-870°C (Cr-Ni-Mo alloy) for 8-168 hours. By this a hardness of 40-50 Rc is achieved but the corrosion characteristics deteriorate due to the formation of intermetallic compounds. On account of their increased strength, all alleys listed above yield with difficulty to deformation. Cold bending, milling and drawing can be done successfully as long as the thickness of the metal is small otherwise the material must be heated to 1,180-1,040°C, avoiding carbonization and formation of sulfurous compounds. Fresently argon-are welding is used for Ni-Mo and Cr-Ni-Mo alloys, while gas welding is rarely performed. For welding 11400, EI 461 alloys, fillers made of EI461 are used with not less than 30% Mo, up to 0.03% C and up to 0.02% S and P. For welding the Cr-Ni-Mo alloy Cr-Ni-Mo wire is used but with a lower percentage of S and P. Recently it has been found that a considerable intercrystalline corrosion developes predominantly in the parent metal near the seam in EI460 and EI461 castings and welded connect: exposed to non-acidifying media. This depends directly on the concentration the solution, its temperature, motion of the media and aeration. For instance in H2SO4 are the most dangerous the low and medium concentrations while no intercrystalline corrosion is observed in 90% H2SO4. This corrosion can be eliminated by the following methods: by reducing the percentage of earbon 0.005% (keeping the concentration of other elements unchanged) or to 0.0% by introducing stabilizers like nicbium into the alloy; by increasing the per-

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Nickel-Molybdenum and Nickel-Silicon Acidproof Alloys

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centage of molybdenum; by a complex allowing with niobium and vanadium reducing at the same time the percentage of Fe and S1 to 2-2.2% and 0.4%, respectively; by a heat treatment of welded connections. Nickel-silicon alloys (Hastelley D. "eyzenit 85") have a high corresion resistance in sulfuric acid of all concentrations at 180-190°C. These alloys are superior to all other materials in respect to corrosion-resistance in sulfuric acid containing hydrocarbons. In hydrochloric and phospheric acids within 10-85% concentration at indicar temperature their resistance is high, while the resistance is low near at healing point. Nickel-silicon alloys are used in cast and cast-welded products only. The chemical composition of the Soviet nickel-silicon alloy is: 11-12% Si, 4-4,5% Cu, up to 0.5% Fe, up to 0.1% C, up to 1,0%Mn, up to 0,1%Al, basic metal Ni. The experiments made by NIIKhTRMASh showed that the strength of an alloy increases with a Si content below 11%, while its porresion-resistance decreases. The titres of is the case if the Si content is higher than 17%. Mechanical properties of the nickel-silicon alloy are: 6 b = 25-30 kg/mm², 0 = 0.28, hardness 48-55 Rc. Because of their hardness and brittleness, nickel-silicon alloys are hardly machinable. To reduce hardness, alloys must be annealed at 1,050-1,065°C during 2-4 hours The corrosion-resistance does not decrease and hardness decreases by about 10Ro.

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Nickel-Molybdenum and Nickel-Silicon Acidproof Alloys

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The expensive Ni-Mo, Cr-Ni-Mo and Ni-Si alloys should be used only in case simpler alloys and steels or non-metal materials are not suitable. The great future importance of two-layer materials with coatings of the aforementioned alloys is stressed. There are 2 tables and 22 references. 8 Soviet, 9 English and 5

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Card 6/6

YUKALOV, Ivan Nikanorovich; IVANOV, D.P., red.; ULANOVSKAYA, I.A., red. izd-vs; KLEYNMAN, M.R., tekhn. red.

[Steel and cost iron for ensmeling] Stall i chuguny dlia emalirovaniia. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi metallurgii, 1961. 118 p. (HIRA 14:5)

(Enamel and enameling) (Steel) (Cast iron)

BOGACHEV, I.N.; DUBININ, N.P.; YEGORENKOV, I.P.; ZHUKOV, A.A.; IVALOV IVANOV, D.P.; MARIYENBAKH, L.M., doktor tekhn. nauk, prof.; blinari I.M.; ROZENFEL'D, S.Ye.; SIDEL'NIKOV, S.V.; SCETTO I.N.; YUDIN, S.B.; RUBISOV, K.N., doktor tekhn. nauk, from CHERNYAK, O.V., inzh., red. izd-va; MODEL', B.I., tekhn. red.	
[Founding handbook; iron founding] Spravochnik liteishchika: churunnoch lit'e. Pod obshchei red. N.N.Rubtsova. Moskva, Mashgiz, 1961. (MLA L. L.)	o transmission
(Iron founding)	
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22695 S/128/61/000/003/003/008 A054/A127

also 1160 11500

AUTHOR:

Yukalov, I. N.

TITLE:

Producing shell mold castings from high alloys

PERIODICAL: Liteynoye proizvodstvo, no. 3, 1961, 9 - 10

Machine parts used in chemical equipment must be corrosionand heat-resistant. Therefore they are made of Ni-Si, Cr-Ni and Ni-Mo alloys. These alloys, however, are very brittle and are not easy to machine, which makes it difficult to obtain precision finishing. Their crystallization heat range is limited and therefore the production of high-quality, thin-walled machine parts from these alloys is a rather complicated matter. Under these circumstances the construction of the mold and the gating system are of great importance. In producing pipes with a wall-thickness of 3 mm and 250 - 400 mm in length, the best solution was found to be the application of shell molds and slot-type gating system, yielding a high-quality casting. In applying the slot-type gating system, the liquid metal reaches the crystallization zone by the shortest possible way, because the gating system moves along with the rising surface of the casting and uncooled metal

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Producing shell mold castings from high alloys

22695 \$/128/61/000/003/003/008 A054/A127

is continuously poured onto the surface of the casting. Experimentally the best results were obtained with a feeder thickness of 2 mm. In order to economize metal, the stand pipe should have an elongated rhomboid shape, the acute angles serving as feeders. As only that part of the feeder which moves along with the metal level in the mold takes part in pouring, there are no slag and other inclusions in the casting; they move upwards through the stand pipe. The feeder is constricted at 1 mm from the body of the casting and it is broken off at this place, whereupon the remainder is removed by machining. In this way none of the very brittle and hard casting will break way from the body. In applying the slot-type gating system it was not difficult to produce the shells. Bakelite powder, amounting to 5 -6% was used as binding material in the molding mixture, for the core mixture: 4%. The mixture should be homogeneous, thoroughly mixed, free cf lumps and pitch inclusions, which otherwise would cause gas concentrations and flaws during pouring. Shells (7 - 10 mm thick) of the required strength are held in a furnace at 350°C, for 25 - 30 sec. In order to avoid any stress formation, the shell mold should crack at 800°C, i. e. when the temperature of the solidifying casting is reduced. If the shell does not start

Card 2/3

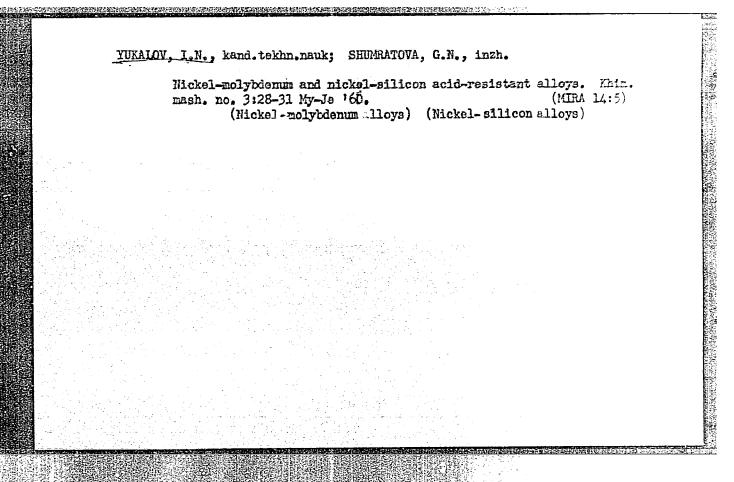
Producing shell mold castings from high alloys

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A054/A127

cracking at 850°C, it has to be broken. The heating and cracking of the mold depends on the thickness of the shell. By applying shell molds and mensions are obtained. The tolerance is on an average 0.12 mm for 3 x

Card 3/3



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Application of the presented of the research of the research of the presented of the research of the research
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anti-correspondend mechanical properties. France of of a wollie solution of Mo and Fe in Ni with a mapriinverset like compounds of the Feg Mo and Nike the wo 500 kg/mm. Intercrystalline corresion is sitting to tent is the alley (to 0.005%) or Fe (to 2.0%, 1 1 15 purer untertains which makes production of the production ductive of 3 or an increase in Mo content re incre est a high His content increases the stability of and . When Pa content is greater than 6.0., and and is request considerably. Basic liming rates allegic are est, particularly magnesite. Right of states the super of gas bubbles and non-metalling which is a substitute of and St. of the state of the stat -inequency furnace amounts to ... the of second fire the melting process is stower. TOTAL STATE OF THE SALES.

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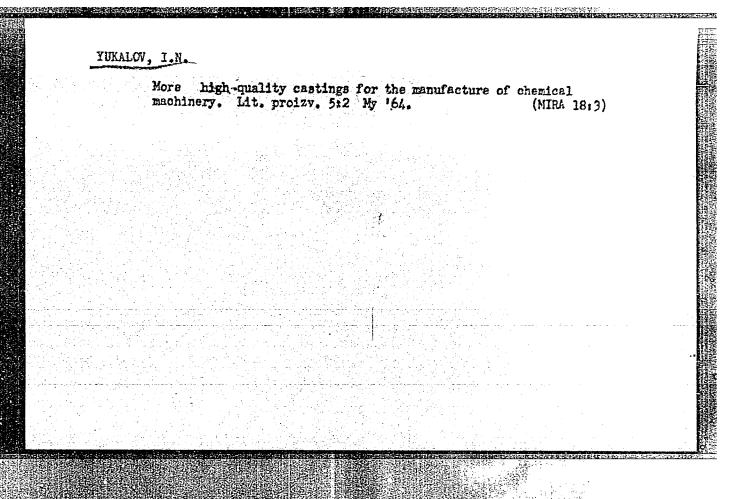
L 42790-66 ENI(m)/EWP(w)/T/FWP(E)/FIT TID(-) TIV/Y-AND SOURCE CODE: UR/0277/65/000/011/0018/0018 AUTHORS: Fedorov, V. K.; Shipilov, V. D.; Yukalov, I. N.; Loganov, D. T.	The state of the s
TITLE: Properties of tantalum and niobium SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidropricyd, Abs. 11.48.155	
TOPIC TAGS: tantalum, niobium, physical chemistry property, corresion residence, and physical property, mechanical property, corresion residence, and and continuous property, mechanical property are discussed. Results on the utilization of these materials in the chemical industry are discussed. Results from an investigation of No and Ta mechanical properties at temperatures from -70 to +300C are presented, as are data on the influence of technical operations (bending, rolling, tube expanding, stamping, and welding) on the corresional properties on Ta of brand TM3 and on No. 3 illustrations, 5 tables. (Translation of abstract)	
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1 29008-66 RWI(m)/EWP(t)/FII ACC NRI AF6018841	JD SOVRCE MADE: THE TOTAL	
AUTHOR: Gulyayev, A.P.; Yukalov, I.	.N.; Federov, V.X.; V.	
CRG: none		
TITLE: Normagnetic from. Class 4',	No 180353	
SOURCE: Izobreteniya, promyahlem y	ve obraztry, tovarry,	
TOPIC TAGS: cast iron, nickel conta	sining ally	
ABSTRACT: A new nonmagnetic cast in content. This iron has the following	con is proposed which a chemical proposed	ne:
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	Silicer.	
	Silicer. Manganase	
	Silicen Manganase (Sulfur O.G. 2011)	
	Silicen Manganese Sulfur Phosphorus	
	Silicer. Manganase Sulfur Phosphorus	
	Silicon Manganese Sulfur Phosphorus Chromium Nickel Oopper	
SUB-CCOE: 1) / SIBM DATE: 214.66/	Silicon Manganese Sulfur 5.0.2. Phosphorus Chromium Nickel	
SUB CCDE: 11 / SUBM DATE: 21Aug64 Cord 1/1	Silicon Manganese Sulfur Phosphorus Chromium Nickel Oopper	

BORISOGLEBSKIY, B.N., kand. tekhn. nauk, red.; VINOGRADOV, Yu.M., kand. tekhm. nauk, red.; GALITSKIY, B.A., red.; GORYAINOVA, A.V., kand. tekhm. nauk, red.; ZHEREBTSOV, A.N., red.; KORETSKIY, I.M., red.; MAKAROVA, N.S., red.; MORDOVSKIY, S.I., kand. tekhn. nauk; SALAMATOV, I.I., doktor tekhm. nauk; SHVARTS, G.L., kand. tekhn. nauk, red.; YUKALOV, I.N., kand. tekhn. nauk, red.; YUKOVA, G.M., kand. tekhn. nauk, red.; YUSOVA, G.M., kand. tekhn. nauk, red.; YUSOVA, G.M.,

[Manufacture of filters in the U.S.S.R.; collection of reports at the united session of the scientific and technical councils of the All-Union Scientific Research Institute of Chemical Machinery, the Ukrainian Scientific Research Institute of Chemical Machinery and the technical council of the Ural Chemical Machinery Plant] Fil'trostroenie v SSSR; sbornik dokladov na ob"edinennoi sessii nauchnotekhnicheskikh sovetov Niikhimmasha, Ukrniikhimmasha i tekhnicheskogo soveta zavoda "Uralkhimmash." Moskva, Otdel nauchnotekhn. informatsii, 1963. 107 p. (MIRA 17:12)

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Skin - Tuberculosis

Expanded scientific session of the Institute of Cutaneous Tuberculosis. Vest. ven. i derm. no. 2, 3.952.

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YUKMLIS, I.I.

Results of the treatment of lupus crythematosus with PAS. Vest. vener., Moskva no. 3:28-29 May-June 1952. (CIML 22:4)

1. Of the Institute of Skin Tuberculosis (Director -- Prof. F. V. Shebanoy).

2. USSR	(600)	
4. Impu	and the control of th	
7. Role	of the lymphatic system in pathogenesis of lupus erythematosus. 6 1952.	Probl.tub
Sign in the	y List of Russian Accessions, Library of Congress, April	

TURRLIS, I.I. Etiology and lupus erythematosus. Sovet med. 16 no. 6:7-10 June 1952. (CIML 22:4) 1. Of the Institute for Skin Tuberculosis (Director -- Prof. P. V. Shebanov), Ministry of Public Health RSFSR.

1. Iz Gosudarstvennogo nauchno-iseledovatel'skogo instituta kozhnogo tuberkuleza (direktor - kandidat meditsinskikh nauk I.H.Agapkin, nauchnyy rukovoditel' - professor H.L.Rossiyanskiy). (SkinTuberculosis) (Nicotinic acid isomers)	Phthivazide therapy in tuberculosis of the skin. Vest.ven.i dera. no.1:6-10 Ja-F 54. (NIRA 7:2)
	tuberkuleza (direktor - kandidat meditsinskikh nauk 1.8. Agapkin,

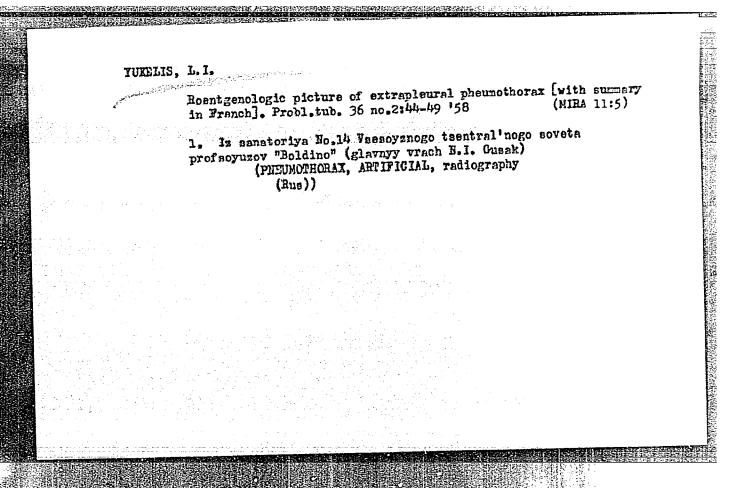
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AGAPKIN, I.N., kandidat meditsinskikh nauk; YUKELIS, I.I., kandidat meditsinskikh nauk

Phthivasid therapy of cutaneous tuberculosis. Probl. tub. no.4: 20-24 Jl-Ag '54. (MRA 7:11)

1. Is Gosularstvennogo nauchno-issledovatel'skogo instituta koshnogo tuberkuleza (dir. kandidat meditsinskikh nauk I.N. Agapkin)

(TUBERCULOSIS, CUTANEOUS, therapy, isoniarid)

(NICOTINIC ACID ISONERS, therapsutic use, isoniarid in cutaneous tuberc.)
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AL'TSHULER, N.S.; LITOVCHENKO, O.V.; YUKELIS, I.I.; DUBOVSKOY P.A.; PLETITSYNA, T.G.; BAGNOVA, M.D.; KÖZEL'SKAYA, I.A. Dynamics of tuberculosis of the skin in children in 1921-1954.

Vest.derm.i ven. 33 no.6323-29 N-D *59. (MIRA 1 (SKIN-TUBERCULOSIS) (MIRA 1382)

> CIA-RDP86-00513R001963120004-5" **APPROVED FOR RELEASE: 03/15/2001**

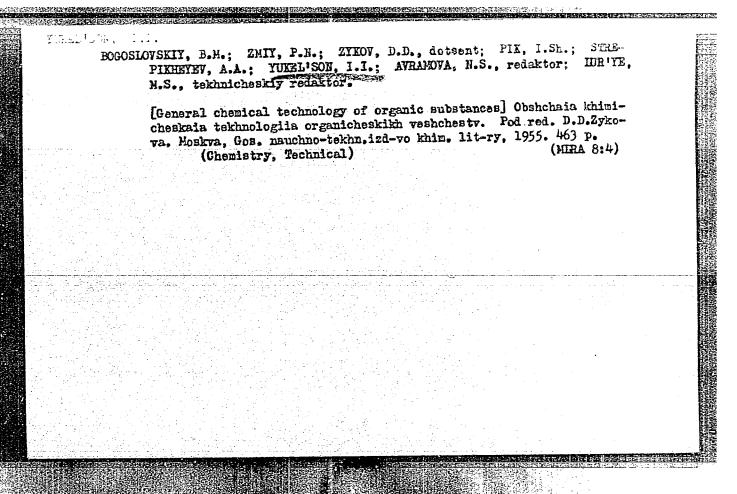
	Vascular 40 no.5:2	9-34 .02.	pulmonary tuberculo	1+n++1+01 nvv	re.
Section Way 1985	SSSR,		(LUNGS—BLOOD SUPPI		
					*.

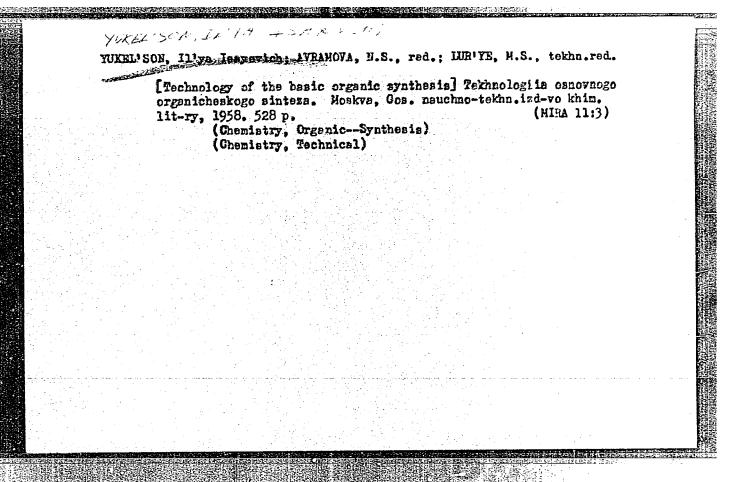
Roentgenogram of the thorax in oblique projection at a 30° angle. Vest. rent. i rad. 38 no.5:66-67 S-0'63 (MIRA 16:12) 1. Iz rentgenovskogo otdeleniya (zav. - prof. K.V. Pomel'tsow) Instituta tuberkuleza (dir. - deystvitel'nyy chlen ANN SSSR prof. N.A. Shmeley) Ministerstva zdravookhrajeniyi SSSR.

YUKELIS, L.I.

Roentgenological investigation in oblique projections in the diagnosis of diseases of the lungs, organs of the mediastinum and pleura. Probl. tub. no.7:32-36 163. (MIRA 18:1)

1. Iz rentgenofskogo otdeleniya (zav. - prof. K.V. Pomel'tscv)
i dispansernogo sektora (zav. - prof. M.I. Oyfebakh) TSentral'nogo instituta tuberkuleza (direktor - deystvitel'nyy chlen
AMN SSSR prof. N.A. Shmelev) Ministerstva zdravookhraneniya
SSSR.





Polycondensation in a thin layer. Khim.nauka i 546-547 '59.	prom. 4 no.4: (MIRA 13:8)
1. Institut elementoorganicheskikh scyedineniy (Condensation products (Chemistry)	Akadewii nauk SSSR,

YUKEL'SON, I.I.; SLUKIN, A.D.; KORBANOVA, Z.N.; SHESTAKOVA, O.G.; FELOTOVA, L.V.

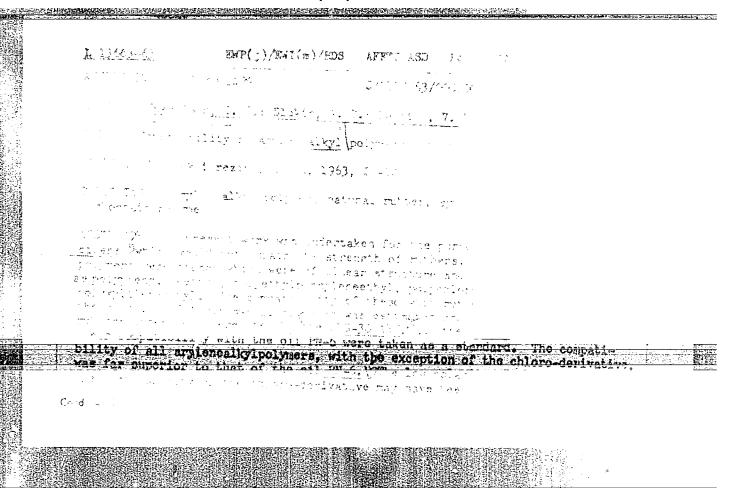
Investigating polyarylene alkyls as ingredients of a rubber compound. Kauch. i rez. 22 no.9:2-4 S '63. (MIRA 16:11)

1. Voronezhskiy shinnyy zavod i Voronezhskiy tekhnologicheskiky institut.

KOZYREVA, Ye.F.; YUKEL'SON, I.I.; NUZHDINA, Yu.A.

Optical properties of arylenealkyl polymers. Part 1: Electron absorption spectra. Vysokom. modd. 5 no. 9:1360-1366 S '63. (MIRA 17:1)

1. Voronezhskiy tekhnologicheskiy institut.



L 13663-63

ACCESSION NR: AP3001429

difference. Rubbers SYI-3 and SEC.30 ART showed the hist important property phenylenesthyl of molecular weight 1400 and in polyphenylenesthyl of molecular weight 1800, while natural mibber was will be determination of the decomposition to molecular weight 1800, 2, 3, 4,4455 and has a formula, 2 charts, and i mails.

HOWARDERS: Commonwhity technologicheskiy institut Forene

FITHERS: On DATE ACL: 30 and 3

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Oxidative dehydrogenation of n-butenes to divinyl in the presence of oxygen. Izv. vys. ucheb. zav.; neft' i gaz 8 no.1:18 '65. (MIRA 18:2)						
	1. Voronezhskiy tekhnologicheskiy institut.					

L 111156-65 ENT(n)/ENP(j)/T Port: SSD/ATVL/ASD(m)-ACCESSION NR: APAG41673 ASD(gs/KSD(t) RMS/0303/64/001, AUTHOR: Yukei son, I. I., Glukhovskoy, V. TITLE: Chemically stable contings based on polyarylene . SOUNCE: Lakokrasochny*ye materialy* i ikh primenon ye : TOPIC TAKE: po yarylene alkyl, lacquer, cross-lenked p polymer, thermosetting polymor, paramagnetic resonance, spectrum ABSTRACT: The author investigated the feaction pro-alkyls with sulfar, forming thermosetting materials of (d = 1.00%), amerage mol. weight = 1200) was used -- . polymer of the fatty aromatic series and sulfir where The nechanism of cross-linking of polyethyl-phony. . . inser an interpreted by chemical equations. The and univaries absorption spectra of the cross-line. the reaction the macromolecule increases in size a the chains. The sulfur bridges and C-C bonds are elkyl pasts of the macromolecules. The resulting

I 1 37 ELCESSION NR: AP4047673 Tenyone ethyl is a thermosetting product. The proper was 0.0680, that of the cross-linked in property was viveous, that of the cross stances of the lacquer ? talms .00 g of cross-linked polyethyl-phery ... formatyl patholate) and 240 g of solvent (xyl.) cased on this polymer has a high resistance to a exygen and hear or temperatures above 2500, that Rept for 2 mouths in concentral (IC) and HMO: 1 Toping at 1200 for 1 hour, then at 7100 for 2 or and entra time where each good strength, elasticity is Originate hese of chemical formulas, ASSC LATION: None SUBN TED: OF FINCE: 12 25**V:** 063 ONE:

CESSION Who assected and the dynamic provided and the dynamic provided and the dynamic provided and the dynamic provided and an increases the elasticity and the dynamic provided and an izers.

1 54961-65 ENTERN /EFF(s)/EMP(j)/T Per-4/Fr-4 RM

ACCESSION NR: APSOLUTES UR/GORE/GE TO

ENTER Synthesis and optical properties of polyethy RIVI. AT

COURCE Journe . It camey khimit, v. 38, no. 5, 12

TOPIC TALLS prove independently was prepared by the course of polyethy RIVI.

COURCE The result of enterprise and properties of polyethy RIVI. AT

COURCE Journe . It camey khimit, v. 38, no. 5, 12

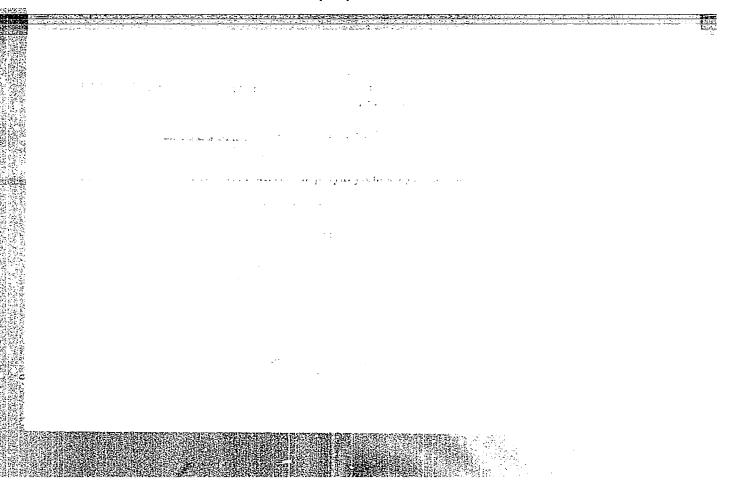
TOPIC TALLS prove independently was prepared by the course of the

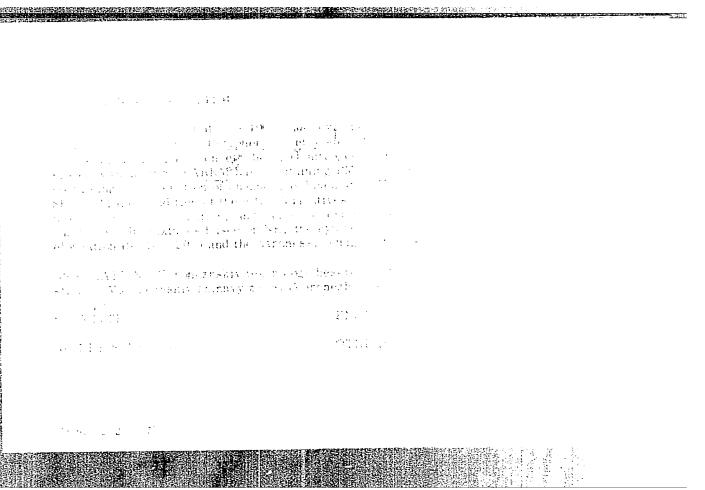
molar ratio of ethylbenzene to dichloroethane. In the tasks the polycondensation reaction is linear and the polycondensation reaction is linear and the

Card 1/2

. 54961-65 _CECSION NF: APS014165

Maximum of the overage molecular weight of the column of of ethylbenzene to dishlorosthene. The ethylorosthene extensive cross-linking within the polymer. I make the dishlorosthene from 1:1 to 0.7:1 the polymer is might a





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