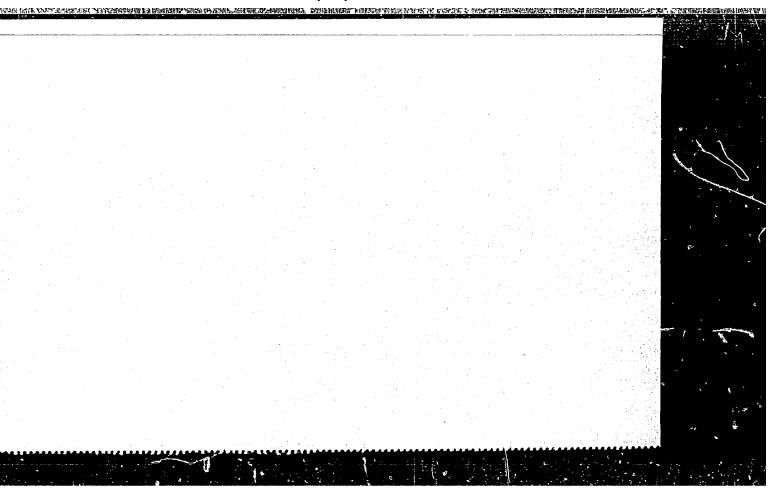
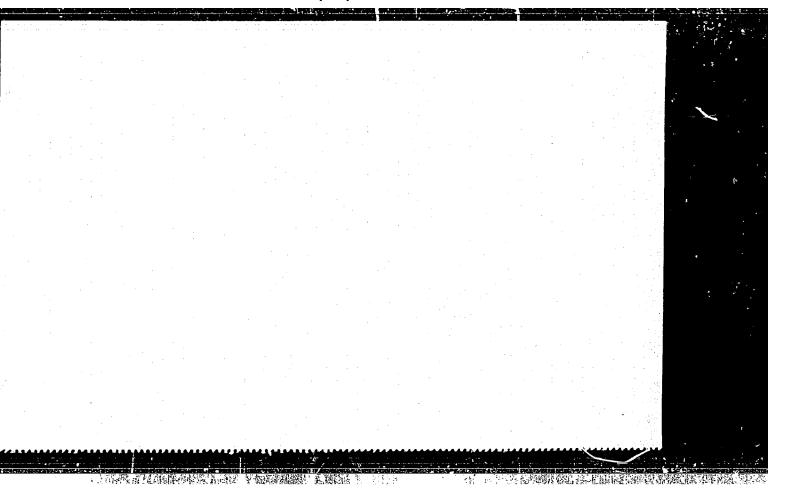
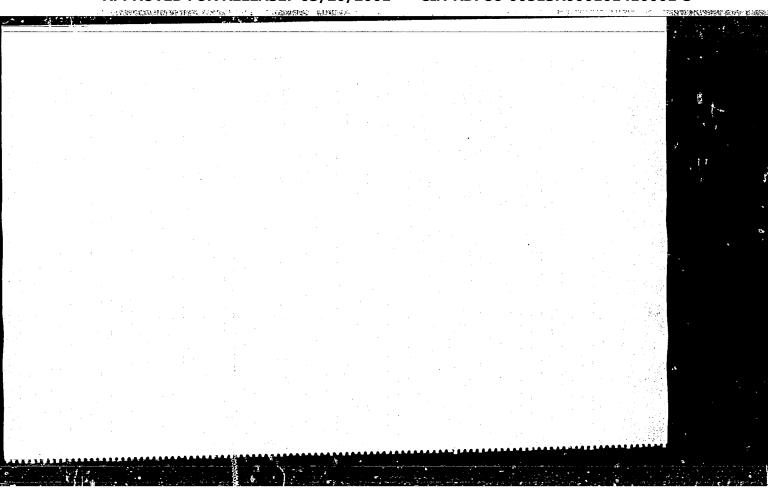


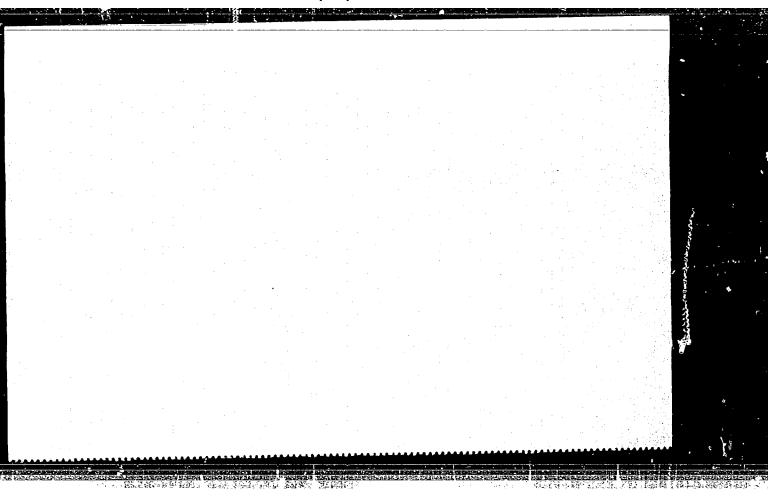
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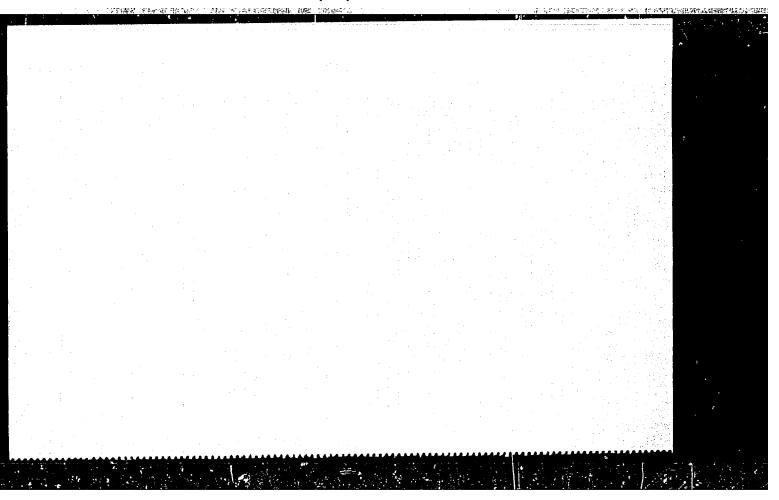




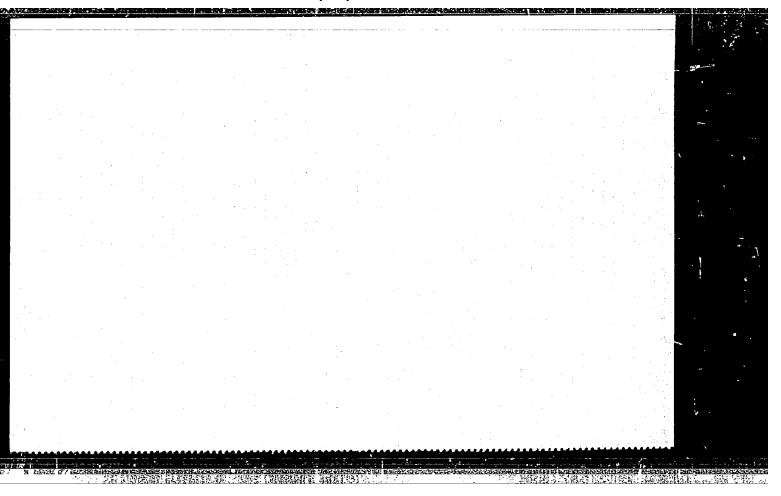
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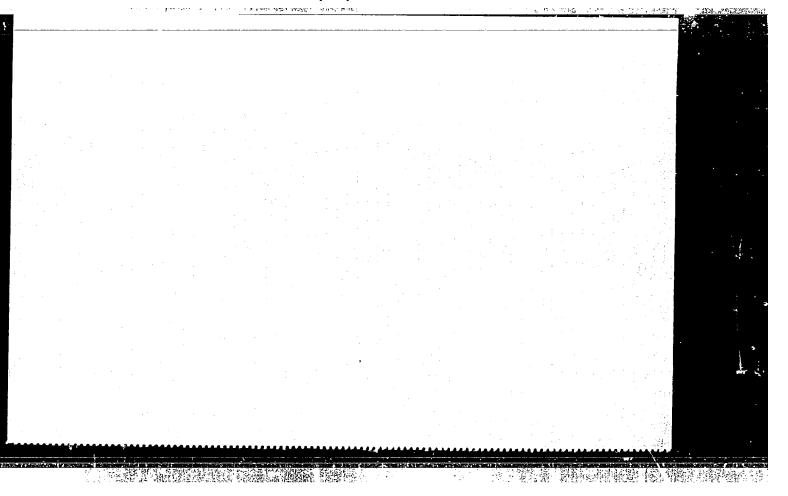


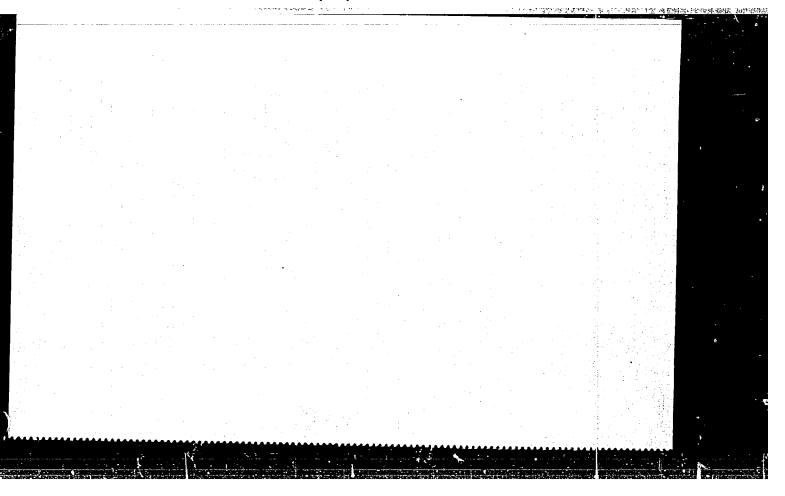


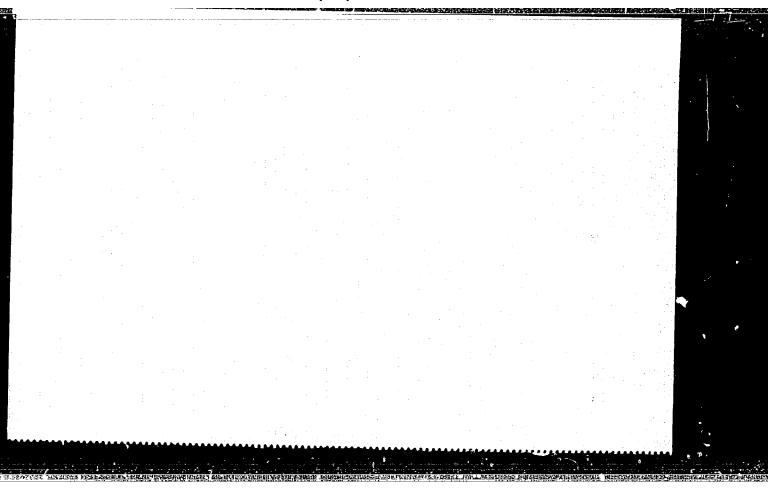


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PEREVODOHIKOV, I.N.; TER-TAKHAROVA, R.I.; AHDRETEVA, F.L.; TARSHINA, Ye.I.

Syphilis treated by reinforced therapy. Vest.vener. no.2:15-17 Mr-Ap '50. (CIML 19:3)

1. Of the Skin-Venereological Clinic, Astrakhan' Medical Institute (Head -- Prof. N.H.Perevodchikov).

S/129/62/000/002/005/014 E073/2335

AUTHORS: Dolinskaya, L.A., Rizoli, A.I., Candidates of

Technical Sciences and Nekrasova, S.Z., Andreyeva, F.M.

Engineers

三江湖 建筑成设置 经产品的 化聚基甲基

TITLE: Recrystallization of cold-drawn stainless steel

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov no. 2, 1962, 34 - 36

TEXT: The influence of long-duration holding at temperatures of the beginning and end of recrystallization was studied for the stainless steel IX18H9T (1Kh18N9T), using pipe specimens with 30% deformation during the last pass. These were heated at a rate of 600 - 800 °C per minute to various temperatures between 600 and 1 200 °C in steps of 50 °C. The specimens were heated without holding at the final temperature and with holding times of 10 minutes and 3 hours, respectively. The temperatures were measured by chromel-alumel thermocouples, fitted into one of the specimens and recorded by means of a high-speed potentiometer. The changes in the microstructure, hardness, mechanical properties at 350 °C, content of combined Ti, number of Card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3"

5/129/62/000/002/005/014 E073/E335

Recrystallization of

interference points on the X-ray diffraction patterns and type II stresses as a function of the temperature, heating and holding time were studied. New grains appeared on heating the specimens to 750 °C and holding for 3 hours. In the case of 10-minute holding times the new grains appeared at 800 °C and if the holding time was reduced to zero new grains formed only at 975 °C. The temperature interval of recrystallization narrows very considerably during the first ten minutes of holding time: in the case of zero holding time, the recrystallization temperature range is 975 - 1 050 °C; the respective values for a 10-minute holding time are 800 - 940 °C and for a 3-hour holding time they are 750 - 850 °C. There are 5 figures.

ASSOCIATION: Ukrainskiy NITI

Card 2/2

ANDREYEVA, G., mladshiy nauchnyy sotrudnik

Pine flat bug control. Zashoh. rast. ot vred. i bol. 10 no.7:24 '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatal'skiy institut lesovodstva
i mekhanizatsii lesnogo khozyaystva.

ANDREYEVA, G.; PISKUN, N.

"是是是是一个工程,是一个工程,

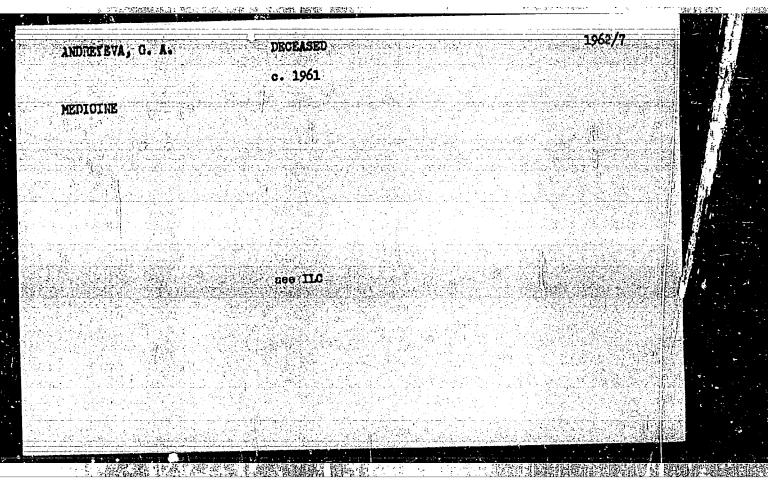
Work of the Gorno-Altai consolidated children's hospital. Vop. okh. mat. i det. 5:62-68 S-0 '60. (MIRA 13:10) (GORNO-ALTAI AUTONOMOUS PROVINCE—CHILDREN—HOSPITALS)

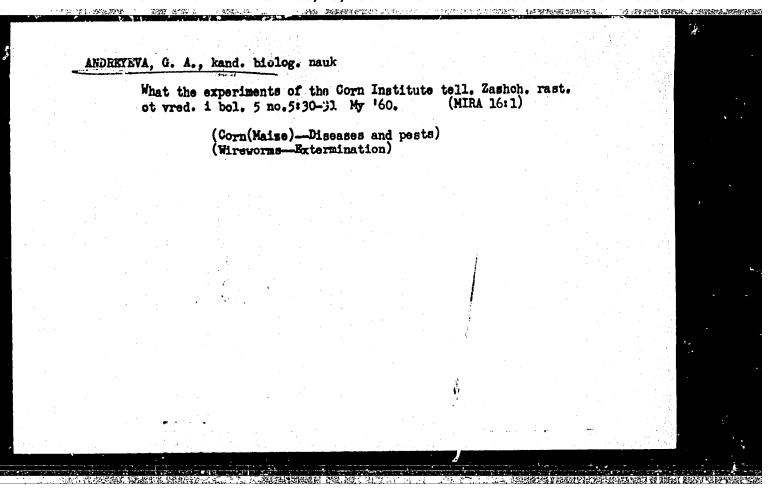
ANDREYEVA, G. A., Cand Biol Sci -- (diss) "Grain and Mistaley Chinch Bugs in the Steppes of the USSR."

(Khar'kov), 1958. 16 pp (Kintaley of Agree USSR. Khar'kov) Order of Labor Red Banner Agree Inst im v. V. Dokuchayev), 100 copies (KL 40-58, 113)

UKSSK

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3





CHENAKAL, V.L.; ANDREYEVA, G.A.; PAVLOVA, G.Ye.; SOKOLOVA, N.V.; TOPCHIYEV,
A.V., red.; FIGUROVERIT, N.A., red.; SHCHERBAKOVA, G.A., red. iqd-va;
VINOGRADOVA, N.F., tekhm. red.

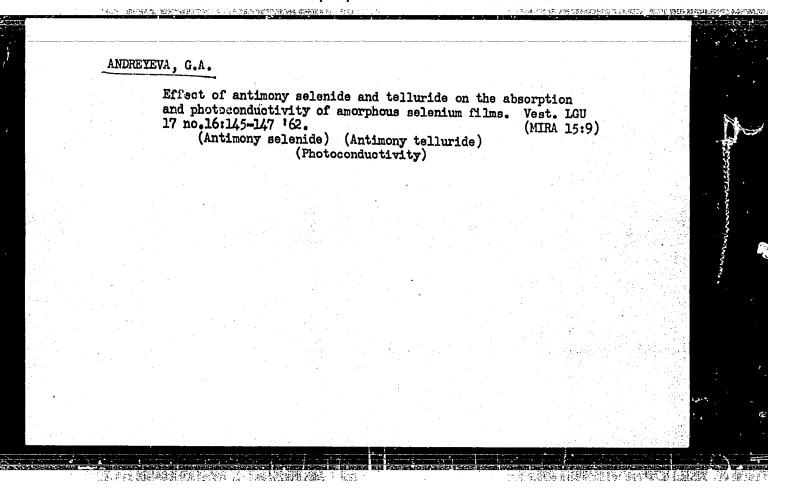
[Chemicle of the lint and works of M.V.Lomonosov] Letopis' zhizni i
two chestva M.V.Lomonosova. Pod red.A.V.Topohieva, N.A.Figurovakogo
i V.L.Chenakala. Moskva, Izd-vo Akad. nauk SSSR, 1961. 435 p.
(MIRA 14:11)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i tekhmiki.
(Bibliography—Lomonosov, Mikhail Vasil'evich, 1711-1765)

MITSENCENDIER, S.P.; ANDREYEVA, G.A.; SOKOLOVA, K.I.; KOROTKOV, A.A.

Synthesis of graft copolymers by the action of polymeric organometallic compounds on polar polymers and a study of their properties. Part 1: Synthesis of graft copolymers of styrene and methyl methacrylate. Vysokom.soed. 4
no.9:1366-1374 S '62. (MIRA 15:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Styrene)
(Methacrylic acid) (Polymerization)



"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101410001-3

AUTHCR:

Andreyeva, G. A.

TITLE:

Absorption and photoconductivity of activated layers of

amorphous selenium

PERIODICAL: Fizika tverdogo tela, v. 4, no. 2, 1962, 536-541

TEXT: The true and effective resistivities of selenium were measured and the influence of impurities on photoconductivity was studied. The specimens were produced from Se or Se+Te alloys, Bi₂Se₃ or Bi₂Te₃ condensed on to metal or quartz backings of 20 or 75°C. The specimens on metal backings were measured by electro-photography; for those on quartz backings, a compensation circuit was used with a Compton electrometer as zero instrument. The photoconductivity spectrum was determined with the same circuit, using a AM-2M (DM-2M) monochromator and with direct current and constant illumination. Absorption was measured with an CP-2M(SF-2M) recording spectrophotometer. The layer thickness was determined with a microscope and an interferometer. True resistivity was 10¹²ohm.om, and maximum effective resistivity in the blocking direction was of the order Card 1/3

3|12|13 5/181/62/004/002/037/051 B102/B138

Absorption and photoconductivity of ...

of 10¹⁵ ohm om. log As was plotted as a function of A for pure and contaminated Se layers on quartz, it is of interest that pure Se, deposited on a 75° backing has almost the same spectral distribution of photoconductivity as Se+1%Bi_Se_3 at 20°; a minimum at ~500 mm and a maximum at 680 mm. This maximum is caused by monoclinic n-type Se. The layers on metal have higher sensitivity than those on quartz. An addition of Te causes a shift of the self-absorption edge, and so does Bi_Te_3, but without raising the sensitivity. X-ray analysis, carried out by L. A. Smirnov revealed Bi_Se_3 in the Se+Bi Te alloy. Bi_Se_3 reduces photoconductivity. Professor M. S. Kosman is thanked for discussions. There are 4 figures and 10 references: 3 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: T. Moss. Photoconductivity in the Elements, London, 1952.
M. A. Cilleo. J. Chem. Phys., 19, 10, 1951. P. Keck. J. Opt. Soc. Am., 1, 53, 1951. P. Keck. J. Opt. Soc. Am., 42, 4, 1952.

Card 2/3

34243 \$/181/62/004/002/037/051 Absorption and photoconductivity of ... B102/B138

ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut im.

A. I. Gerthena (Leningrad State Pedagogical Institute imeni A. I. Gertsen)

July 15, 1961 (initially) and September 25, 1961 (after revision) JUBRITTED:

Card 3/3

CIA-RDP86-00513R000101410001-3" **APPROVED FOR RELEASE: 03/20/2001**

4111? 5/054/62/000/003/010/010 В101/3186

ス6.シリジン AUTHOR:

9.4177

Andreyeva, G. A.

TITLE:

Effect of antimony selenide or telluride on absorption and

photoconductivity of amorphous selenium layers

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,

no. 3, 1962, 145 - 147

TEXT: To extend the photosensitivity of sclenium beyond 600 m\$\mu\$, selenium and \$\begin{align*} \begin{align*} \begin{align*}

Effect of antimony selenide ...

S/054/62/000/003/010/010 B101/B186

absorption maximum appeared at 680 mm during evaporation onto the hot bases. Since the evaporation was performed at a temperature high above the boiling point of selenium, dissociation occurred when Sb₂Te₃ was used, forming Sb₂Se₃ and free Te. Traces of Sb₂Se₃ were discovered by x-ray analysis. The dark resistance of layers containing Sb₂Se₃ or Sb₂Te₃ decreased with increasing admixture concentration; it was about (2.5-7)·10¹¹ ohm.cm. The activation of Se by Sb₂Se₃ or Sb₂Te₃ has additive character, and is based on photoinjection of holes into the amorphous selenium. There are 2 figures.

SUBMITTED: February 20, 1962

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Card 2/2

"APPROVED FOR RELEASE: 03/20/2001 CI

CIA-RDP86-00513R000101410001-3

5.3300 75691 SOV/80-32-10-40/51 AUTHORS: Lishanskiy, I. S., Korotkov, A. A., Andreyeve, G. A., Zak. A. G. TITLE: Brief Communications. Concerning the Dehydration of n-Pentanol Over Aluminum Oxide PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2344-2346 (USSR) Dehydration of aliphatic alcohols over Al₂0₃ leads to ABSTRACT: the formation of isomeric olefins. Dehydration of n-pentanol can give 5 possible isomeric pentenes with a boiling range between 20 and 38°. Isolation of pentene-1 is very difficult. Attempts were made to prepare pentene-1 by dehydration of n-pentanol accompanied by the least isomerization. Two catalysts were used: a catalyst which was used for the dehydration of isopropyl alcohol at 360° and afterwards regenerated with air at 450° for 2 hr, and a freshly prepared catalyst. The activity of both catalysts was the same with respect to the total Card 1/2 hydrocarbon yield. Pentene-1 content in the mixture

Brie' Communications. Concerning the Dehydration of n-Pentanol Over Aluminum Oxide

75691 SOV/80-32-10-40/51

or pentenes changes with the amount of alcohol passed over the catalyst, and has a maximum 39.2% (minimum 7.5%). The observed phenomenon may be explained by assuming the existence on alumina of active centers of different spatial specificity. Chromatographic analysis was done by Dement'yeva, M. I., in the laboratory LenNII. There is I figure; I table; and 4 references, 2 Soviet, 2 U.S. The 2 U.S. references are: Oblad and others, Ind. Eng. Ch., 39, 1462 (1947); Pines, H., Haad, W., J. Org. Chem., 23, 2, 328 (1958).

ASSOCIATION:

Institute of High-Molecular Compounds, Academy of

Sciences USSR (Institut vysokomolekulyarnykh soyedineniy

AN SSSR)

SUBMITTED:

January 29, 1959

Card 2/2

\$/190/62/004/009/009/014 B101/B144

AUTHORS:

Mitsengendler, S. P., Andreyeva, G. A., Sokolova, K. I.,

Korotkov, A. A.

TITLE:

Synthesis of graft copolymers by the action of polymeric organometallic compounds on polar polymers, and study of their properties. I. Synthesis of graft copolymers of

styrene and methyl methacrylate

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 9, 1962, 1366-1374

TEXT: The interaction of polystyrene lithium (PS*) with polymethyl methachylate (PMMA) was studied. The decomposition of PS' by moisture and oxygen was eliminated by treating it in vacuo or in a nitrogen atmosphere, and through the presence of methyl lithium or calcium hydride. PMMA dissolved in toluene was cooled to -50 - -70°C and mixed with PS cooled to -78°C. The resulting graft copolymer was extracted successively with ether, acetonitrile and benzene. The ratio >C=0/PS' was determined from the oxygen content of the graft copolymer or by IR-spectroscopy. Results: (1) All fractions differed from a mechanical mixture of the

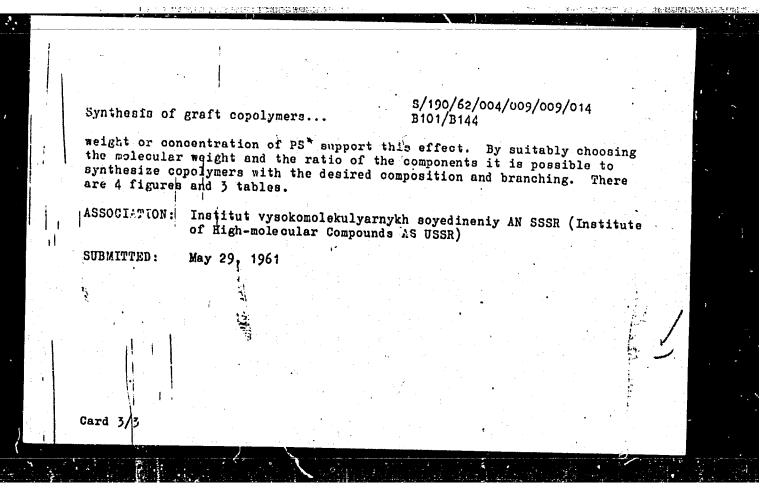
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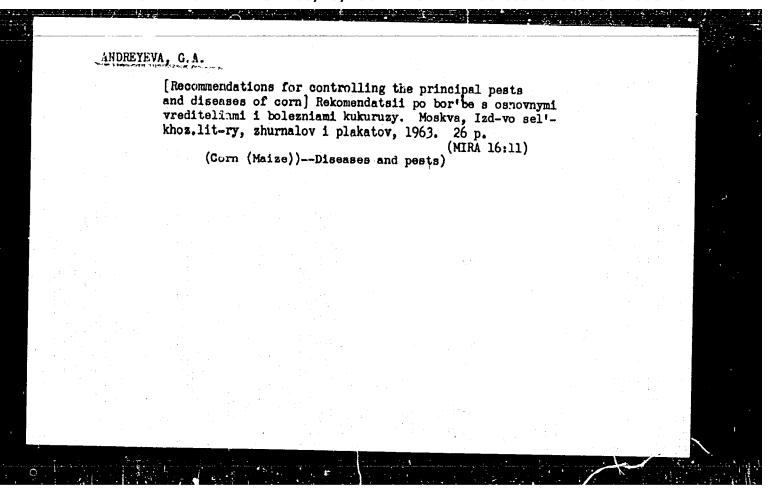
PO BRITISH

Synthesis of graft copolymors...

S/190/62/004/009/009/014 B101/B144

components by birefringence. A graft copolymer was obtained with 100% yield. (2) The molecular weight and the ratio of components affect the reaction course; (a) An increasing molecular weight of PMMA reduces the selectivity and renders grafting of PS onto the macromolecule of PMMA uniform. If the molecular weight of PMMA is increased from 70.103 to 500.103, and if the ratio >C=0/PS equals 10, the amount of PMMA consumed for ether fraction decreases from 31 to 3.6%, and the yield of ether fraction from 74 to 18.6%; (b) an increasing molecular weight of PS increases the selectivity and produces the uniformity of grafting. If the molecular weight of PS* increases from 5.103 to 50.103, the PMMA consumption for ether fraction rises from 3.1 to 53% and the yield of this fraction from 20.5 to 95.5%; (c) if the molecular weights of PAMA and PS* are constant, the yield of other fraction increases as the concentration of PS is increased, or as the ratio >C=O/PS is decreased. Conclusions: The codurrence of grafting is not statistical but mainly on that PMMA macromplecule where the reaction has already started. As soon as grafting of the first PS" chains sets in, the coiled PMMA molecules begin to stretch and thereby to facilitate further grafting. High molecular Card 2/





S/125/61/000/009/009/014 D040/D113

AUTHORS:

Andreyeva, G.F., Voskan'yan, B.Kh., Yelagin, V.M., Kuznete, I.I.,

TITLE:

Automatic ASG-NITI welders

PERIODICAL: Avtomaticheskaya svarka, no.9, 1961, 51-59

TEXT: Design and operation is described of an ACT -HNTM (ASG-NITI) welder developed by the Nauchno-issledovatel'sky tekhnologichesky institut (Scientific Research Institute of Technology) and demonstrated in 1960 at the VDNKh exhibition. It is designed for argon-are welding large sheet structures of nonmagnetic or low-magnetic metal (aluminum and titanium alloys, stainless steel), with tungsten electrode and with or without filler wire. Its tracing system moves the welding head along the joint with a 0.25 mm accuracy when the joint deviates not more than 10 mm per meter from straight line, and maintains the arc length (by voltage), with reltage control accuracy of 0.25 v. The welder is provided with TV, remote controlled, can weld circular seams. Manual control is also provided. The ACT -2 (ASG-2) welding head, illustrated with a block diagram and a close-up view phote-

Automatic ASC-NITI welders

8/125/61/000/009/009/014 D040/D113

graph, may be used on any analogous automatic welders. The new tracing principle suggested by T.B.Shoherbanenks and D.A.Mikhaylor, requires no especially prepared line traced parallel to the joint, as required by all other automatic machines with photoelectric tracing systems. The tracing element is an inductive pickup (Fig.3) with two coils on one magnetic circuit. The coils are supplied with alternating current and produce alternating magnetic field that causes eddy currents in metal edges being joined. The article gives detailed engineering information and includes the circuit diagram of the tracing system and four photographs. There are 7 figures.

SUBMITTED: April 1, 1961

Card 2/3

PLOTNIKOVA, T.P., inzh.; ANDREYEVA, G.G., inzh.

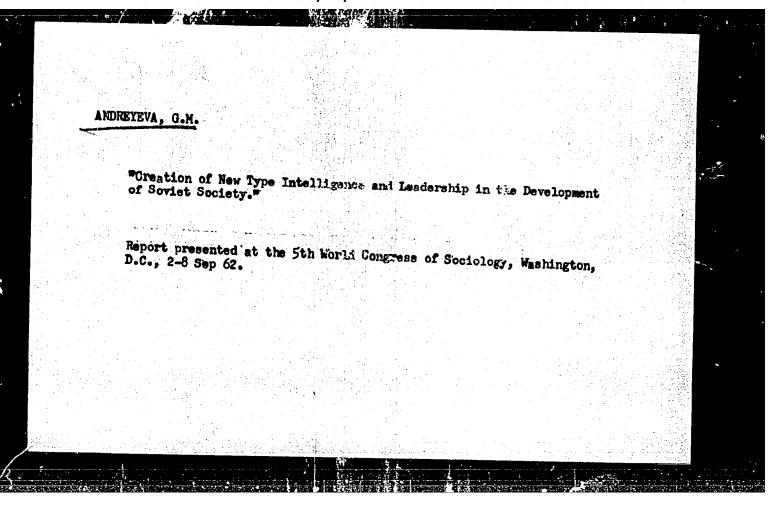
Quality of electrolytically tin plated sheet steel and its use in the canning industry. Sbor. trud. TSNIICHM no.28:173-177 '62. (MIRA 15:11)

(Tin plate) (Canning industry)

APPROVED LEASE 07/28/2001

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Different Ways of Industrialization.

Report presented at the 5th World Congress of Sociology, Washington, D.C., 2-8 Sep 62.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3"

5.1310

S/081/60/000/017/010/016 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 17, p. 345, # 70238

AUIHORS: Fedd

Fedot'yev, N.P., Vyacheslavov, P.M., Kruglova, Ye.G., Andreyeva, G.P.

TITLE:

Electrochemical Deposition of Co-W Alloy and Its Properties

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 53, pp. 82-97

The authors studied the effect of the electrolyte composition and electrolysis conditions on the composition and properties of the Co-W alloy. For the deposition of the Co-W alloy (35% W) an electrolyte of the following composition is recommended (in g/l): W 12, Co 4, (NH₄)2SO₄ 250-300, NH₄OH (25% solution) 30-40, NaOH 11; D = 8-12 amp/dm²; temperature: 50-60°C; Pt or W anodes. When the W/Co ratio in the electrolyte is increased up to 7, the W content in the alloy increases considerably; if the ratio is raised to 11 - the W content increases slowly, and, subsequently, does not change. The current efficiency of the alloy drops abruptly (from 75 to 15%) with a higher W/Co ratio; increased from 1 to 7, and subsequently changes insignificantly. At a total content

Card 1/3

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S/081/60/000/017/010/016 A006/A001

Electrochemical Deposition of Co-W Alloy and Its Properties

of the metals as high as 48 g/l, the maximum content of W in the alloy is 55% and decreases down to 40% at a total amount of metals equal to 10 g/l. A higher concentration of (NH₄)₂SO₄, raised from 10 to 150 g/l, increases the W content in the alloy from 7 to 26%. A further increase of (NH₄)₂SO₄ has only a sight effect on the composition of the alloy but improves its quality. Current efficiency passes through a maximum depending on the concentration of (NH₄)₂SO₄. Additions of NH₄OH do not considerably affect the composition of the alloy, but at a higher concentration of NH₄OH the quality of the deposit is deteriorated and the current efficiency decreases. At a higher D the W content in the alloy increases.

Maximum current efficiency is attained at D_{cathode} = 10 amp/dm². At an elevation of temperature the W content in the alloy increases (0.6% per each 5°C), current efficiency increases considerably (by 25% per each 5°C) and the luster of the deposit becomes brighter. The sign and order of magnitude of the internal stresses of the deposits are the same as for Cr-deposits. Microhardness of the deposits decreases with higher D_{cath}, increases with higher temperature and concentration of (NH₄)₂SO₄ and increases twice after heat treatment at 600°C for one hour.

Card 2/3

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5/081/60/000/017/010/016 A005/A001

Deposition of Co-W Alloy and Its Properties.

Microhardness of the deposits is 500-700 mg/mm². The alloy is sufficiently acid and corrosion resistant in 80_2 and NO₂ atmosphere. Best protective properties in 3% NaCl solution are shown by at alloy containing 35% W (Thickness 5 - 10 μ).

Z. Solov'yeva

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

5.1310,5.2200

75669

sov/80-32-10-18/51

AUTHORS:

Fedot'yev, N. P., Vyacheslavov, P. M., Kruglova, Ye. G.,

Andreyeva, G. P.

TITLE:

The Technique of Electrochemical Deposition of Cobalt-

Tungsten Alloy and Its Properties

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2235-

2242 (USSR)

ABSTRACT:

The authors' studies showed that the electroplating with Co-W alloys proceeded much better in an electrolyte composed of W, Co, $(NH_4)_2SO_4$, and 25% solution of NH_4OH

than in electrolytes based on citric acid and potassium

sodium tartrate recommended by other investigators. The composition of the deposit depended chiefly on the ratio of the concentration of component metals in the electrolyte. The tungsten content in the deposit increased with increasing W/Co ratio, and the yield based on current decreased. The tungsten content in the deposit

Card 1/3

increased with increasing concentration of $(NH_{1/2})SO_{1/4}$ and

The Technique of Electrochemical Deposition of Cobalt-Tungsten Alloy and Its Properties

75669 SOV/80-32-10-18/51

the quality of the deposit improved. The value of the $\mathrm{NH}_{\underline{\mathsf{H}}}\mathrm{OH}$ concentration did not affect the composition but only the quality of the deposit, which became darker and finally black at a concentration of 140 g/1. The same effect was shown by NaOH. It was also found that the tungsten content in the deposit increased with increasing current density. The optimal conditions for depositing Co-W alloy with 35% W content are: electrolyte composition, W 12 g/1; Co $\frac{4}{9}$ g/1; (NH₄)₂SO₄ 250 to 300 g/1; 25% NH40H solution 30 to 40 g/1; NaOH 10 g/1; current density 8 to 12 amp/dm²; temperature 50 to 60°; anodes: platinum or tungsten. The hardness of the deposit can be increased almost twofold by a heat treatment at 6000 for 1 hr. The hardness was thus raised from 500-700 kg/mm² to a maximum of about 1,000 kg/mm². Abrasion resistance of Co-W deposit on nickel was con-Biderably higher than that of silver deposit on nickel. A very high abrasion resistance was shown by Co-W

Card 2/3

The Tochnique of Electrochemical Deposition of Cobalt-Tungsten Alloy and Its Properties

75669 SOV/80-32-10-18/51

deposit (65% Co and 35% W) on a surface of identical composition. The investigated Co-W deposits showed a considerably higher resistance than cobalt and nickel to the corrosive action of 1:1 concentration of sulfuric, nitric, and hydrochloric acid as well as to NO₂ and SO₂. The deposit containing 35% W resisted well the corrosive action of 3% NaCl solution at room temperature, and it dissolved at a very low rate (0.1 g/m² per 24 hrs). There are 2 tables; 12 figures; and 6 references, 1 U.S., 1 British, 4 Soviet. The U.S. and British references are: J. Research Nat. Bur. Stand., Oct. (1947); The Engineer, 135, 4805 (1948).

SUBMITTED:

September 19, 1958

Card 3/3

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5.1310 1087, 1018, 1208

特別的語名為自然主義的語言學的

\$/137/60/000/010/040/040 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 315, # 24982

AUTHORS:

Fedot'yev, N.P., Vyacheslavov, P.M., Kruglova, Ye.G., Andreyeva, G.P.

TITLE:

Electrochemical Deposition of Co-Tungsten Alloy and its Properties

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 53, pp. 82-97

TEXT: It is shown that the composition of the Co-tungsten deposit depends to a high degree on the metal concentration ratio in the electrolyte, since a higher tungsten/cobalt ratio causes a higher tungsten content in the deposit, although current efficiency decreases. At a concentration of (NH₄)₂SO₄ raised from 10 to 150 g/liter in the electrolyte, the tungsten content in the depositincreases from 7 to 26%. The current efficiency changes along the curve with a maximum at a concentration as high as 150 g/liter and furthermore drops. A higher D_{cathode} increases the tungsten amount in the deposit; however, the quality of the deposit deteriorates; the luster disappears, and roughness appears. At a

Card 1/2

87664

S/137/60/000/010/040/040 A006/A001

Electrochemical Deposition of Co-Tungsten Alloy and its Properties

higher electrolyte temperature a gradual increase of the tungsten percentage in the alloy takes place. The current efficiency increases noticeably. It is established that the dispersing capacity of the electrolyte for the deposition of the cobalt-tungsten alloy exceeds by 10 - 15% that of the Ni-electrolyte. The authors studied the dependence of microhardness of the deposited cobalt-tungsten alloy on various factors of electrolysis. Investigations of the wear resistance of cobalt-tungsten alloy coatings in pair with Ni and in pair with the same alloy showed that it was higher in the latter case than during wearing in pair with Ni. It was stated that the cobalt-tungsten deposit was sufficiently corrosion-resistant in SO₂ and NO₂ atmosphere. The composition of the electrolyte for the deposition of an alloy with 35% tungsten is given.

N.I.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/080/62/035/007/007/013 D214/D307

AUTHORS:

Fedot'yev, N.P., Vyacheslavov, P.M. and Andreyeva,

G.P.

TITLE:

Structure and properties of electrodeposited Sn-Cd

alloys

PERIODICAL:

Ehurnal prikladnoy khimii, v. 35, no. 7, 1962,

1537-1542

The structure and some properties of electrodeposited Sn-Cd alloys were extermined and compared with those of the same alleys obtained by fusion. X-ray studies of 14 samples of the alloy, containing from 2.4 to 99% Cd, showed the lattice parameters to be close to the values obtained for the equivalent alloys prepared from molts. The Sn-Cd alloys, deposited from a kCN solution, crystallize in accordance with the phase diagram and contain Cd/Sn eutectics. Heasurements of the potentials of the alloys in a lNCdSO4 solution against a standard calomel electrode also showed the alloys to behave as a eutectiferous mixture of Sn and Cd crystals. The micro-

Card 1/2

Structure and properties ...

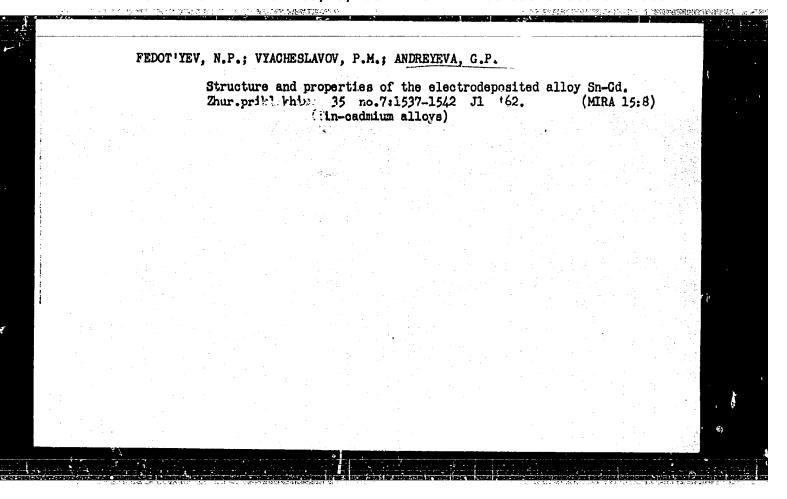
S/080/62/035/007/007/013 D214/D307

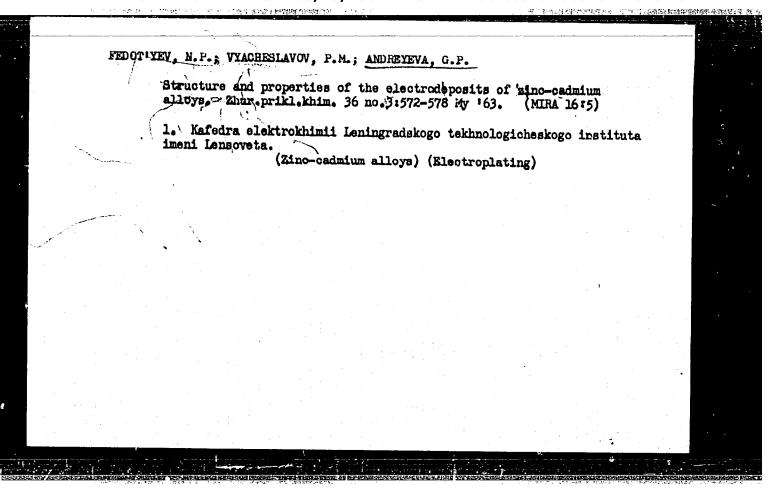
hardness increases linearly from 13.2 to 35.8 kg/mm² and the specific resistance decreases linearly from 0.154 to 0.114 Ω mm/m as the Cd content increases. The resistivities of the electrodeposited alloys were about 25% higher than those of the equivalent alloys prepared from their melts. An increase in the Cd content causes the cathodic polarization to increase; the polarization curves for the simulaneous deposition of both metals lie in the more positive region than that in which curves for the deposition of the separate components are situated. There are 5 figures and 1 table.

SUBMITTED:

September 22, 1961

Card 2/2



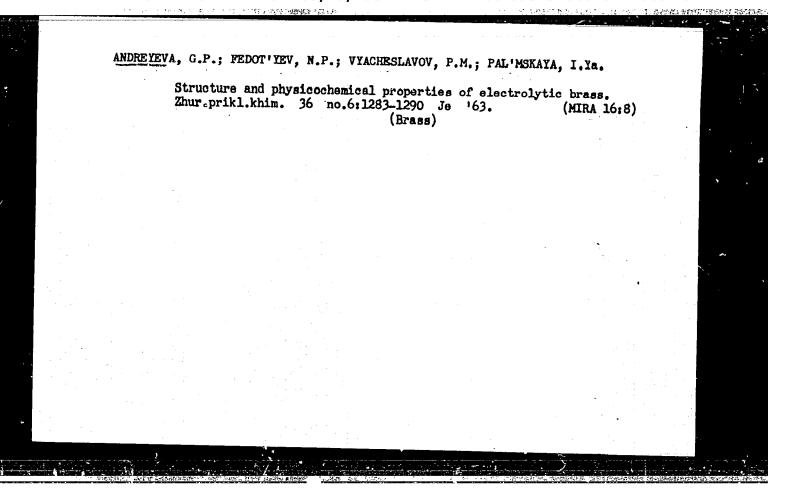


FEDOT'YEV, N.P.; VYACHERIAVOV, P.M.; ANDREYEVA, G.F.

Structure and properties of the electrodeposited zinc-tin alloy.
Zhur.prikl.khim. 36 no.31671-673 My 163. (MIRA 1615)

(Zino-tin alloys) (Electroplating)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3"



1 17:58-63 PPR/PPR/SERIAL PROPERTY AND	
L 17/58-63 EPR/EPF(c), SMP(q)/ENT(m)/BDS AFFTC/ASD/ESD-3 Ps-4/Pr-4 ACCESSION NR: AP3006179 8/0080/63/036/007/1461/1462	
AUTHORS: Fedot'yev, N. P.; Vyacheslavov, P. N.; Andreeva, O. P.; Volokhonekiy, N. V.	1
TITLE: A method for obtaining porous electrolyte deposits SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 7, 1963, 1461-1462	
TOPIC TAGS: Electrodeposition, porous electrolyte deposit, cobalt, colloidal graphite, PA-5 percenter /	
ABSTRACT: by sodding collid	
u the total surface; and the are of the interel pore surface approximately 1700 thes as greatise the general surface. The method described	
Org. St. Mil Latte	

ANDREYEVA, G.P.; FEDOTI EV, N.P.; TACHESLAVOV, P.M.

Structure and physicochemical properties of a copper-mickel electrolytic alloy. Zhur. prikl. khim. 36 no.9:1932-1936
D '63. (MIRA 17:1)

ACCESSION NR: AP4041796

5/0080/64/037/007/1469/1477

经现有权。但是

AUTHOR: Andreyeva, G. P.; Fedot'yev, N. P.; Vyacheslavov, P. H.

TITLE: Physicochemical properties and structure of Au-Cu electrolytic alloy

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 7, 1964, 1469-1477

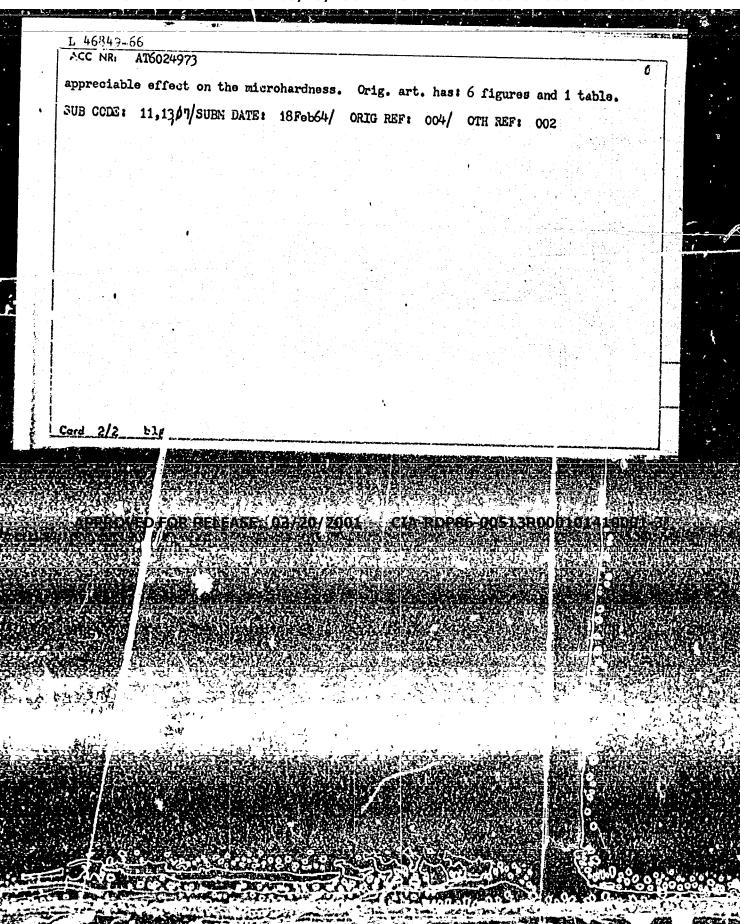
TOPIC TAGS: gold copper alloy, electrolytic gold copper alloy, gold copper alloy electrodeposition, gold copper alloy structure, gold copper alloy property

ABSTRACT: An experimental study of the properties of an electrolytically deposited Au-Cu alloy has shown that electrolysis in a cyanide electrolyte containing 5.5—0.2 g/L Au, 0.2—5.5 g/L Cu, and 5.5 g/L KCN at a temperature of approx 60C and a cyrrent density of 0.15 amp/dm³ produces in 1 hr satisfactory deposits \(\cdot\)—8\(\cup \text{thick}\). The deposit consists of a solid solution with a crystal hattice of gold. The fresh deposits have a phase composition differing greatly from that of the Au-Cu metallurgical alloy. Depending on the gold content and the current density it may have, instead of a single phase, two

Card 1/2

ACCESSION NR: AP4041796 or even three phases, i.e., solid solutions of different composition, Au Cu3 and Au Cu intermetallic compounds, and very finely dispersed copper particles. However, as a result of natural or artificial aging, the phase structure of the alloy changes and becomes rather similar to that of the metallurgical Au-Cu alloy. The resistivity of electrodeposited alloys is roughly of the same magnitude and has the same composition dependence as those of metallurgical alloys. The microhardness of electrolytic alloys is much higher than that of metallurgical alloys, although in both types of alloys the composition dependence of microhardness follows the same pattern. Orig. art. has: 7 figures. ASSOCIATION: none SUBMITTED: 08Apr63 ATD PRESS: 3074 BNCL SUN CODE: NO REF SOVI OTHER 1 002

L 46849-66 EWT(m)/EWP(e)/T/EWP(t)/ETI IJP(e) DS/JD/WW/JG/GD/WH ACC NR. AT6024973 (N) SOURCE CODE: UR/0000/65/000/000/0194/	0197
ORG: none	4
TITLE: Electrodeposition and properties of silver-palladium elloys SCUNCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metal cheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elekt khimii (Protective metallic and oxide coatings, corrosion of metals, and studies i electrochemistry). Moscow, Nauka, 1965, 194-197	
TOPIC TAGS: silver alloy, palladium alloy, electrodeposition	
ABSTRACT: The conditions of electrodeposition of Ag-Pd elloys from an electrolyte ing LiCl as its main component and some physicochemical properties of these alloys studied. LiCl and HCl concentrations were found to have a considerable influence the quality of the deposits. The strongest influence on the composition of the alloys overted by the deposits.	ere
was exerted by the Ag:Pd ratio in the electrolyte. A study of the anodic process, showed that carbon and graphite electrodes were best suited for the electrolysis/of LiCl solutions. A study of the cathodic process showed that the net polarization curve of deposition of an Ag-Pd alloy is located at more positive potentials than net polarization curves of deposition of the pure components. X-ray analysis and crohardness and electrical resistance measurements revealed the formation of solid lutions. In deposits containing over 70% Pd, a texture was observed which had an	he
Cord 1/2	



ACCESSION NR: AP4019487

stability of 6BaO. Nb₂O₅ were determined: it melts without decomposition at 1930 ± 20degrees and decomposes readily on storage in air or contact with water. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 19Jun63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 011

OTHER: 019

Card 2/2

APPROVED FOR RELEASE: 03/20/2001

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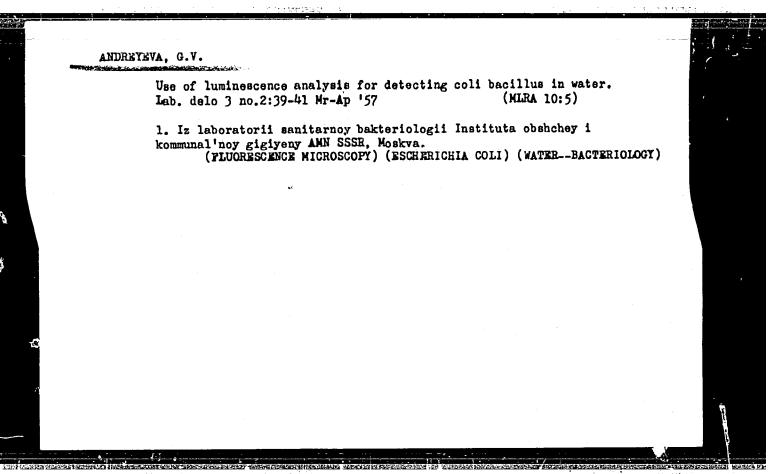
ZHILIE. M.G., professor; RELIGREY, M.A.; ANDREYEVA, C.V.

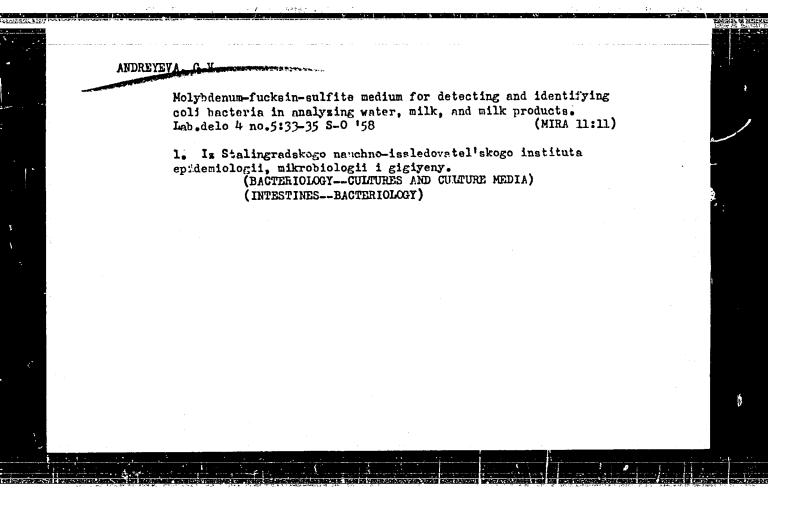
Sanitary-hygienic requirements in field camps. Gig. i san. 21 no.4:

44.45 Ap '56.

1. Is Chkalovskogo meditsinskogo instituta i oblastnoy sanitarnoepidemiologicheskoy stantsii.

(AGRIGUITURE,
hyg. aspects of field camps (Rus))





ANDEREYEVA, G. V., PICHER, J. M., BLYUGHARDV. G. G., PAYER, G. A., POPOVA, T. I., KERASHEVA, S. I., IGNATOVICH, E. A., RALUMOV, A. S., RUCHENKO, M. G., PERTSOVSKAYA, M. I., TALAYEVA, YU. G., VLADOVETS, V. V.

"Modern problems of sanitary bacteriology in the solution of problems of communal hygiene."

report submitted at the 13th All-Union Congress of hygienists, Epideriologists and Infectionists, 1959.

ANDREYEVA, G.Y.: NIKIFOROVA, L.L.

State All-Union Standard 5216-50-1955 for the sanitary-bacteriological analysis of water. Gig i san. 24 no.5:61-62 My 159. (MIRA 12:7)

l. Iz Stalingradskogo nauchno-issledovatel'skogo instituta epidemiologii mikrobiologii i gigiyeny.

(WATER, microbiology,

determ., standard form in hissia (Ris))

ANDREYEVA, G.Y.

Molybdenum medium for the detection and identification of Enterobacteriaceae. Zhur.mikrobiol.epid. i immun. 30 no.2:70-74 F 159. (MIRA 12:3)

1. Is Institute obshchey i kommunal'noy gigiyeny AMN SSSR. (BACTERIA,

Enterobacteriaceae, detection & identification with molybdenum medium (Rus))
(MOLYBDENUM.

detection & identification of Enterobacteriaceae with molybdenum medium (Rus))

Differentiation and identification of the Enterobacteriaceae by means of biophemical examination methods. Zhur. mikrobiol. epid. i immun. 31 no. 5:113 My '60. (MIRA 13:10)

1. Iz Stalingradskogo instituta epidemiologii, mikrobiologii i gigiyeny. (INTESTINES—MICROBIOLOGY)

ANDREYEVA, G. V.; POLYAKOVA, Z. N.

Indicator method for detection and identification of diphtheria cultures. Zhur. mikrobiol., epid. i immun. 32 no.8:12-15 Ag '61. (MIRA 15:7)

1. Iz Gorodskoy sanitarno-epidemiologicheskoy stantsii, Stelingrad.

(CORYNEBACTERIUM DIPHTHERIAE)

SHUL'MAN, N.K.; ANDRETEVA(I.A.; PALENKO, I.A.; KOSITSYN, I.Ye.; TIL'BA, A.P.; BARANCHEYEV, L'M.; MOSKALENKO, A.V., red.; GOLOVIN, A.A., tekhn.red.

[Nature in Amur Province] Priroda Amurskoi oblasti. Blagoveshchensk, Amurskoe knizhnoe izd-vo. 1959. 308 p. (MIRA 13:4)

1. Amurskiy otdel Vsesoyuznogo geograficheskogo obshchestva (for all, except Moskalenko, Golovin).

(Amur Province-Geography)

11(7)

Tayts, Yo. M., Andreyeva, I. A.

SCV/156-50-1-64/54

TITLE:

On a Procedure for the Coking of Lignites (O speeche kekse-

vaniya burykh ugley)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskuya

tekhnologiya, 1959, Nr 1, pp 169 - 172 (USSR)

ABSTRACT:

The procedures hitherto in customary use for the briquetting

of powdered, dried lignite at high pressure (up to

1800 kg/cm²) and with subsequent heating to 950° in a vertical chamber furnace are not always successful as pressure and temperature do not act simultaneously. Non-caking ceals and lignite yield brittle coke briquets. An attempt was made to produce coke briquets in an electrically heated mold. When a certain temperature (400-450°) had been reacted, pressure was applied (500-500 kg/cm²), which was but only allowed to act for a short time, not more than for a few minutes. Afterwards the briquets were coked in muffle

furnace, and the coke was tested with regard to compactness. Coal analysis data and test results of the cokes are listed in tables. The dependence on temperature and pressure of the

Card 1/2

On a Procedure for the Coking of Lignites

30V/156-59-1-44/54

compactness is graphically represented. Thermo-briquetting yields considerably better results than do the separate actions of pressure and temperature. A coke is obtained which is equal to the ordinary metallurgical coke. This is explained by the fact that the action of pressure at the instance of a thermal reaction (splitting-off of side radicals, formation of aromatic C-lattices) results in new bonds at the contacts increased in number by the action of pressure. There are 2 figures, 1 table, and 3 references, 2 of which are Soviet.

ASSOCIATION:

Kafedra obogashcheniya peleznykh iskopayemykh Heskovskogo gernego instituta im. I. V. Stalina (Chair of the Concentration of Minerals of the Moscow Mining Institute imeni I. V. Stalin)

SUBMITTED:

October 1, 1958

Card 2/2

5(2) AUTHORS:

Tayts, Ye. M., Andreyeva, I. A.

SOV/153-2-3-27/29

TITLE:

On the Process of the Formation of Coke From Lignite Briquets

PERIODICAL:

Izvestiya vysahikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 3, pp 454-459 (USSR)

ABSTRACT:

For their investigations the authors used lignites of different types. Coals from Kushmurunskoye and Eginsayskoye deposits of the Ubaganskiy basin were investigated more accurately. The coke briquets were produced under a pressure of 2000 kg/cm² and had a diameter of 45 mm. The humidity content of the coal was 10-12%.

> Prior to coking, the briquets were dried for 90 minutes at 1500 Temperature was then increased to 950° at a rate of 3° per minute. In the heating process the solidity of the briquets changes considerably. One of the most important factors causing this change is the nolidification of the coal material (change of the cohesive powers). In heating up to a certain temperature the hardness of the coal is increased (Ref 2). For this reason the forming coke briquets are more solid than the initial briquets. Moreover, also the forces of interaction between the grains at the contact surfaces (change of the adhesive power) change. This change depends on the character of

Card 1/3

On the Process of the Formation of Coke From Lignite SCV/153-2-3-27/29 Bricuets

the chemical transformations during heating and it is closely connected with the shrinkage of the coal particles. Distinction must be made between the shrinkage of the individual grains (λ) and the shrinkage of the entire briquet (λ). The solidity of the coke briquet at otherwise equal conditions is the higher the higher the ratio $\frac{\lambda}{\lambda}$. Figure 1 shows the

connection between the solidity of the coke briquet and the shrinkage of the volume for a series of coal samples. In this connection the more solid coke is obtained the more finely lignite was crushed. Table 1 shows the connection between the degree of the crushing of coal, the solidity and the one-dimensional shrinkage for various coke briquets. Also pressure exercises a considerable influence on the shrinkage of the coke briquets. This connection is shown by table 2. Shrinkage does not only depend on the coal properties but also to an important degree on the method of heating. Rapid heating accelerates the shrinkage of the individual grain (λ). By this fact the contact between the grains is disturbed and the solidity decreases due to a decrease in the shrinkage of the total briquet (λ '). The quality of coke may be improved by

Card 2/3

On the Process of the Formation of Coke From Lignite SOV/153-2-3-27/29 Briquets

carrying out the coking in two steps in order to warrant a constant contact between the individual particles. The entire complex of problems is discussed in detail in this paper. There are 2 figures, 2 tables, and 9 references, 7 of which are Soviet.

ASSOCIATION:

Institut goryuchikh iskopayemykh AN SSSR i Moskovskiy gornyy institut - Kafedra obogaohcheniya poleznykh iskopayemykh (Institute of Combustible Minerals of the AS USSR and Moscow Institute of Mining, Chair for the Enrichment of Minerals)

SUBMITTED:

July 25, 1958

Card 3/3

KOCHAMOVA, L.A.; ANDREYEVA, I.A.; SHCHUKIN, Ye.D.; LIKHTMAN, V.I.

Regularities in brittle fracture of pure and alloyed monocrystals of zinc. Insh.-fiz. shur. no.7:45-52 Jl '59. (MIRA 12:10)

1.Institut fizicheskoy khimii AN SSSR, g.Moskva. (Zinc crystals--Testing)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3"

5(4) AUTHORS:

SOV/20-126-6-44/67 Kochanova, L. A., Andreyeva, I. A.,

Shchukin, Ye. D.

TITLE:

On the Brittle Rupture of Pure and Alloyed Zinc Single Crystals (O khrupkom razryve chistykh i legirovannykh monokrist-

allov tsinka)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1304-1307

(USSR)

ABSTRACT:

In the papers (Refs 1-4) the authors investigated the rupture of pure zinc single crystals along the cleavage face (0001) and found that the product of normal and cleavage tensions is

constant = $T_0 r_0 = \text{const} = K^2$. The results are given for tech-

nical zinc and fir zinc alloyed up to 0.5 % with Cd and compared with the results obtained for pure zinc (Table 1). Figure 1 shows the values of rupture tension for pure zinc at -196° C and various angles between crystal axis and face (0001) as well as the effect of a mercury film upon the strength at +20° C. Table 1 shows that K increases with increasing amount of additions. Figure 2 shows the values of rupture tension r for amalgamated and non amalgamated pure

Card 1/3

CIA-RDP86-00513R000101410001-3"

APPROVED FOR RELEASE: 03/20/2001

On the Brittle Rupture of Pure and Alloyed Zinc Single Crystals

SOV/20-126-6-44/67

zinc single crystal in dependence on the crystallographic shear a. The characteristic break of the deformation curve at a₀ (flow limit) as well as the increase in strength for a < a₀ connected with the latter are due to the increase of the incomplete shears (dislocation accumulation). a₀ decreases with increasing amount of alloy components. Table 1 gives the degree of inhomogenety f = a₀/a' (a' refers to pure zinc). As shown by figures 3 and 4, the experimental results are in good agreement with those obtained by A. Deruyttière and G. B. Greenough (Ref 5). p_ct_c = K² holds for both amalgamated and not amalgamated zinc single crystals of varying purity. The values for K are reduced by 50 % as a result of the reduction of the free surface activity σ. The authors thank V. I. Likhtman for his advice. There are 4 figures, 1 table, and 13 references, 12 of which are Soviet.

Card 2/3

On the Brittle Rupture of Pure and Alloyed Zinc

SOV/20-126-6-44/67

Single Crystals

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of

Physical Chemistry of the Academy of Sciences, USSR)

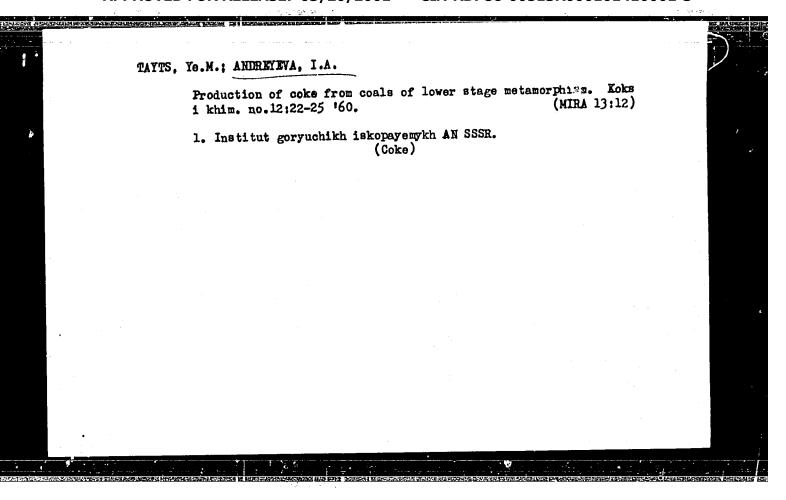
PRESENTED:

February 17, 1959, by P. A. Rebinder, Academician

SUBMITTED:

February 10, 1959

Card 3/3



18.8200 4016 1496 1413

28094 \$/181/61/003/009/028/039 B104/B102

AUTHORS:

Bryukhanova, L. S., Andreyeva, I. A., and Likhtman, V. I.

TITLE:

Rupture strength of metals and the effect of surface-active

metal melts on it

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 9, 1961, 2774-2778

TEXT: The temperature and time dependences of the strength of amalgamated zinc and gallium-coated cadmium has been investigated. The wire samples were zinc crystals, polycrystalline zinc, and cadmium. Their diameter was 1 mm and their length 10 mm. A contact method was employed to coat the zinc samples with a thin Hg film (5μ) in a mercury-nitrate solution. The cadmium samples were electrolytically coated with a gallium film. A relation between the lifetime and the angle χ , between the basal plane and the sample axis was clearly established for differently oriented zinc single crystals. The values for logt (τ denotes the lifetime in sec) for every χ and different loads are located on straight lines. According to S. N. Zhurkov, the activation energy U of the destruction is given by $U = U_0 - \gamma P$, where γ denotes a structure factor and P the load. Test results furnish Card 1/5

s/181/61/003/009/028/039 B104/B102

Rupture strength of metals and ...

U = 35 kcal/mole. This value agrees with those of other authors. Tests of zinc single crystals with $\chi \approx 50^{\circ}$ at 20 and 50° C show that for different loads the time elapsing till the sample ruptures is considerably diminished by the Hg film (from several days to seconds). The same results have been obtained for amalgamated polycrystalline zinc and gallium-coated polycrystalline cadmium samples. It was found that the empirical relation cannot be used to estimate \boldsymbol{U}_{O} and $\boldsymbol{\gamma}$ for Zn and Cd samples coated with Hg or Ga films. The effect of the films is not connected with a thermal activation but is the result of adsorption of surface-active atoms. The presence of surface-active substances will not affect the length of the destruction process as long as the normal component of stress is small. However, if this component reaches a value corresponding to the tensile strength of the metal, the surface cracks will grow rapidly and cause the sample to rupture. The rate of growth of these cracks is related to the rate of surface migration of the surface-active substance. It is not connected with any thermal activation of the destruction process. There are 6 figures and 10 references: 9 Soviet and non-Soviet. The reference to English-language publications reads as Card 2/3

TAYTS, Ye.M.; OKLADNIKOV, V.P.; RAVICH, B.M.; ANDREYEVA, I.A.

Metallurgical and smokeless fuel from gas coals and weakly coking coals. Khim.i tekh.top.i masel 6 no.3:31-36 Mr '61. (MIRA 14:3)

1. Institut goryuchikh iskopayemykh im. G.M. Krzhizhanovskogo AN SSSR, Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSR i Moskovskiy gornyy institut im. V.I. Stalina.

(Fuel) (Coal—Carbonization)

YEFASHKIN, G.V.; ANDREYEVA, I.A.

Methods for evaluating the mechanical strength of a briquetted fuel. Zav.lab. 27 no.9:1149-1150 161. (MIRA 14:9)

 Moskovskiy gornyy institut imeni I.V. Stalina. (Briquets (Fuel))—Testing)

2570.1 S/020/61/139/002/011/017 B104/B205

18.8200 acro 1327,2808

Likhtman, V. I., Bryukhanova, L. S., and Andreyeva, I. A.

TITLE:

AUTHORS:

Long-time strength of metals

PERIODICAL:

Akademiya nauk SSSR Doklady, v. 139. no. 2, 1961, 359 - 362

TEXT: The effect of surface-active metallic melts on the mechanical properties of high-melting metals has been studied in the authors' laboratory. It could be shown on single crystals of Zn. Cd. and Sn that the sudden loss in strength and plasticity occurring under the action of a thin film of a melt on a single crystal being stretched at a constant rate, is related neither with the grain boundaries, nor with the dissolution of the high-melting metal in the melt, nor with a chemical reaction between the metal and the basic metal, which leads to an intermetallic compound. The mechanism of this effect consists in a considerable adsorptive decrease of the surface energy of the high-melting metal (Rebinder effect) both on the external surface and on the two surfaces of the crack. S. N. Zhurkov et al. (ZhTF, 23, 1677 (1953); DAN, 101, 237

Card 1/4

25781 s/020/61/139/002/011/017 B104/B205

is reached. This corresponds to the discontinuity on the curve log? = f(P) which, in turn, corresponds to the transition from the destruction mechanism based on thermally activated processes to a mechanism based on an increase in the surface energy, which is brought about by the active melt. The second mechanism occurs not before a certain stress is attained. This corresponds to the braking strength of the metal which is reduced in the presence of the active melt. The authors thank Ye. D. Shchukin and L. A. Kochanova for discussions. There are 4 figures and 10 references: 9 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publications reads as follows: K. H. Mann, et al. J. Phys. Chem., 64, 251 (1960).

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

PRESENTED: March 15, 1561, by P. A. Rebinder, Academician

SUBMITTED: March 6, 1961

Long-time strength of metals

Card 3/4

YARKHO, N.A.; RAVICH, B.M.; ANDREYEVA, I.A.

Production of coke from gas coals. Koks i khim. no.3:11-12 162.

(MIRA 15:3)

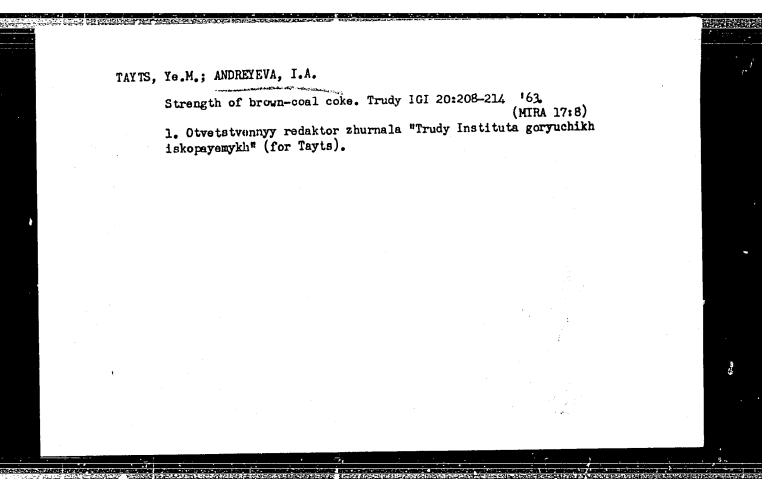
1. Moskovskiy gornyy institut.

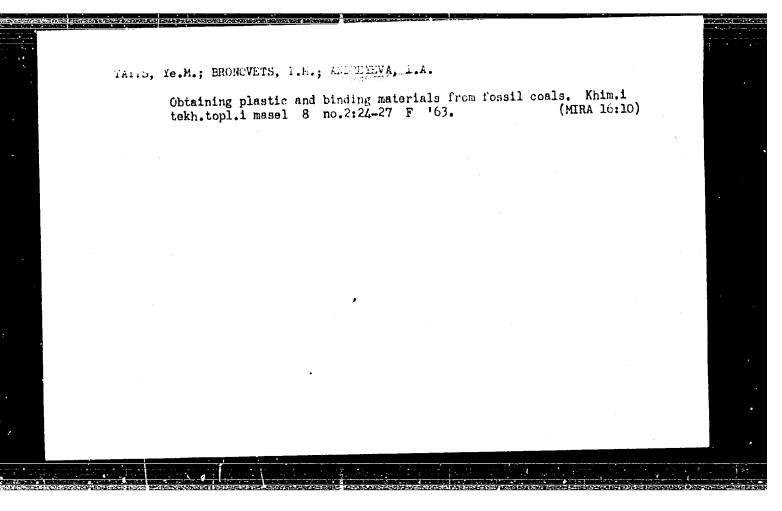
(Coke)

YEFASHKIN, G.V.; ANDREYEVA, I.A.

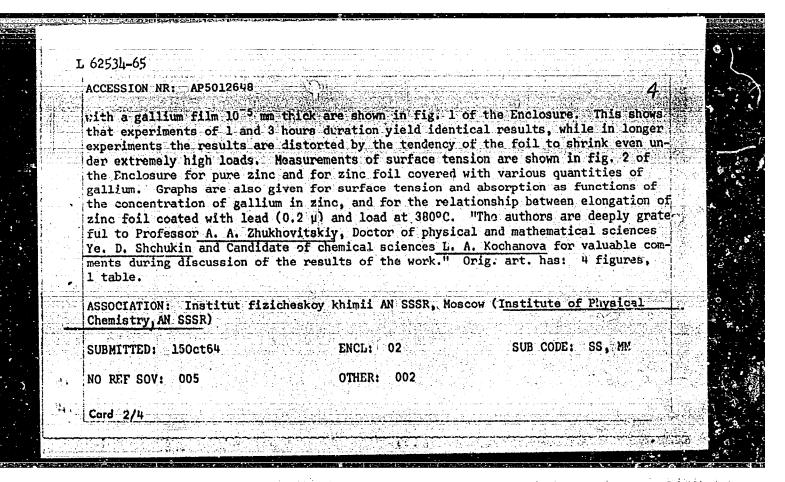
Selection of optimal parameters in thermal coal briquetting.
Khim,i tekh.topl.i masel 7 no.4:38-AO Ap '62. (MIRA 15:4)

1. Moskovskiy gornyy institut.
(Briquets (Fuel))

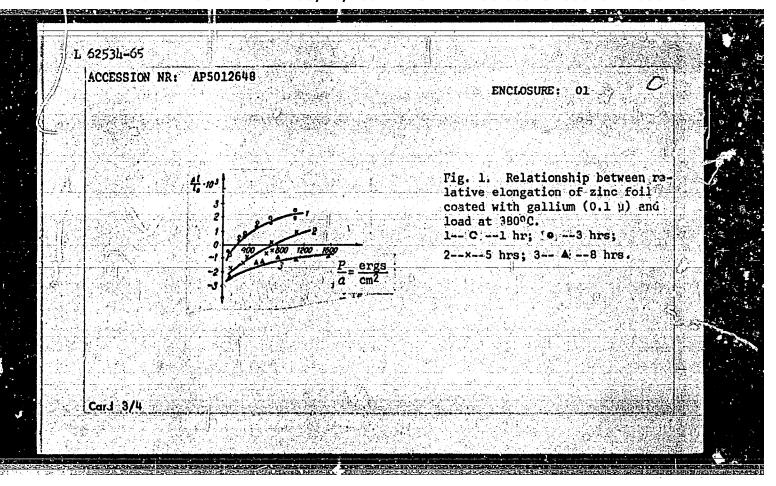




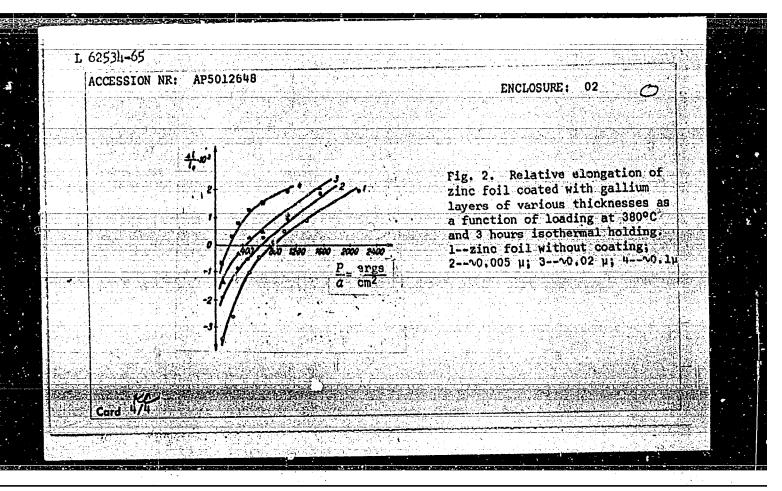
ACCESSION /NR:/ AP5012648 UR/0369/65/001/002/0134/0138	
AUTHOR: Bryukhanova, L. S. Andreyeva, I. A.; Likhtman, V. I.	
TITLE: Reduction in surface tension of solid metals when atoms from melts of sur-	
SOURCE: Fiziko-khimicheskaya mekhani' ati la ov. v. 1, no. 2, 196%, 134-138	
TCTTC TAGS: surface tensi/o() ai thin film, surface active ag nt	
Al (RACT: The surface terminal fiscal i zinc was measured during adsorption of various quantities of gillum. The surface tension of zinc covered with a thin lead.	A second contract of
Udin was used (G. Tamman, W. Boehme, Ann. Phys., 1932, 12, 820; H. Udin. A. Shaler,	•
s in expands at paratures class of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is loaded above as a significant of the melting point when it is a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point when it is observed at a significant of the melting point of the melti	
Thus for foll we have the condition $P_0 = a\sigma$ where a is the fidth of the foll and σ is	A Change
Cord 1/4	•
	AUTHOR: Brynkhanova, L. S. Andreyeva, I. A.: Likhtman, V. I. TITLE: Reduction in surface tension of solid metals when atoms from melts of surface-active metals are absorbed on their surfaces SOURCE: Fiziko-khimicheskaya mekhani structura surface active agent Alk (RACT: The surface tension at this film, surface active agent Alk (RACT: The surface tension of grace tension of yerious quantities of grace tension of the surface tension of zinc covered with a thin lead film (2 u thick) wis also measured. The "zero" creep method developed by Tamman and Udin was used (G. Taman, W. Boehme, Ann. Phys., 1932, 12, 820; H. Udin. A. Shaler, I. lift, Journ. of Matals, 1949, 1, 1. The method is based on the fact that the sime expands at Seratures, 1, 2 o the melting point when it is loaded above a signal limiting vector, which is reaction due to surface tension is observed at load lelow Por Thus (L. Zero dr., pload Poreactly balances the surface tension. The results of a preliminary study of greep for zinc foil coated.



"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3



"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410001-3



LIMETERN, V.1.; BETTERNANOVA, L.S.; ADMEYEVA, L.A.; EMPHINGE, P.A., akademik

Decrease of the surface tension of solid metals with atoms of lurface-active metallic meits are adsorbed on their surface.

Dokl. AN SSSR 160 no.4:867-870 F 165.

1. Institut fizicheskoy khimii AN SSSR.

(MIRA 18:2)

TAYTS, Yefim Moiseyevich; RAVICH, Boris Mikhaylovich; ANDREYEVA, Irina Aleksandrovna

[Coke and iron coke prepared by the briquetting process]
Koks i zhelezokoks ns osnove briketirovaniia. Moskva,
Metallurgiia, 1965. 172 p. (MIRA 18:7)

AGRESHON, Lake, profes 1981CH, Bulle, kande telline mank; ANIallYFVA, 1.A., inzhe

Ways of preparing make from coal of the Vorga-Shor deposit by preliminary briquetting. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:194-196 165. (MIRA 18:9)

1. Vsasoyuznyy zaochnyy inatitut pishchevoy promyshlennosti (for Agroskin). 2. Moskovskiy institut redicelektroniki i gornoy elektromekhaniki (for Ravich, Andreyevs). I ekomendovana kafedroy energetiki Vsesoyuznogo zaochnogo instituta pishchevoy promyshlennosti.

ACC N'& AR6035407

SOURCE CODE: UR/0137/66/000/009/A007/A007

AUTHOR: Likhtman, V. I.; Bryukhanova, L. S.; Andreyeva, I. A.

TITLE: Measurement of surface tension of hard metals in the presence of adsorption layers of surface-active metallic alloys

SOURCE: Ref. zh. Metallurgiya, Abs. 9A41

REF. SOURCE: Sb. Poverkhnostn. yavleniya v rasplavakh i voznikayushchikh iz nikh tverd. fazakh. Nal'chik, 1965, 438-442

TOPIC TAGS: surface tension, alloy, adsorption, surface active coating, metal surface

ABSTRACT: The author determined experimentally the surface tension σ of solid Zn which adsorbed different amounts of Ga on its surface. σ was determined by the Tamman "zero" creep method. A foil of Zn 7 x 10^{-3} cm thick was used; the Fa film $(5 \times 10^{-7} - 1 \times 10^{-5})$ cm) was deposited electorlytically. σ experiences maximum reduction when the Ga film thickness is 0.1 μ . A tentative estimate of the depth of the diffusion penetration of Ga and Zn makes it possible to propose that the maximum reduction of σ corresponds to a monomolecular layer of Ga on the surface of Zn. 3 illustrations. Bibliography, 7 titles. (From RZh Khim.) [Translation of abstract]

SUB CODE: 20. 11

Card 1/1

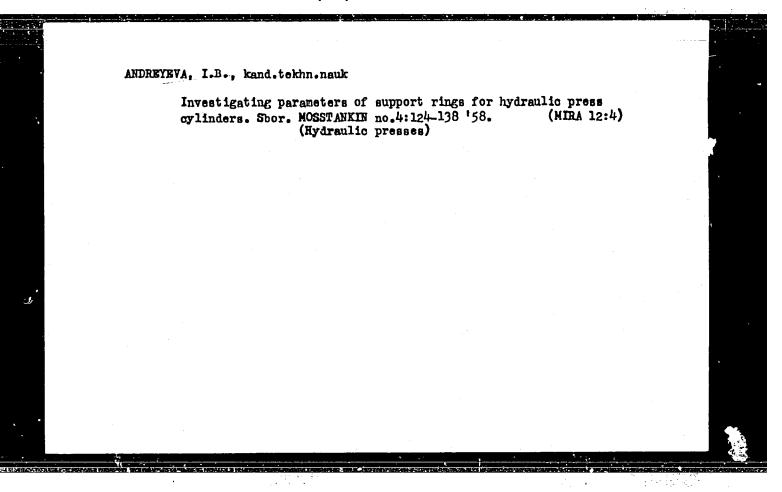
UDC: 669.332.61

ANDREYEVA, I. B.

"An Investigation of the Stresses in the Cylinders of Hydraulic Presses." Cand Tech Sci, Moscow Machine Tool and Tool Inst imeni I. V. Stalin, 29 Dec 54. (VM, 21 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55



AUTHORS:

Andreyava, I.B. and Udintsev, G.B.

SOV-11-58-10-1/12

TITLE:

The Structure of the Bottom of the Sea of Japan According to Data Obtained by the "Vityaz" Expedition (Stroyeniye dna Yaponskogo morya po dannym issledovaniy ekspeditsii

na "Vityaze")

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958,

Nr 10, pp 3 - 20 (USSR)

ABSTRACT:

The seismo-accustic method of sea-bottom study was applied on a large scale by USSR for the first time in 1954 by the Institut Okeanologii AN SSOR (The Institute of Oceanology of the AS USSR) in the north-western part of the Pacific Ocean and in 1957 - for the study of the bottom of the Sea of Japan. The research ship "Vityaz'" was especially built for this kind of research. Her equipment and instruments were devised by the Akusticheskiy Institut AN SSSR (the Institute of Acoustics of the AS USSR). The authors describe the results of these studies which were largely based on methods developed abroad /Ref. 9-23/, such as the study of reflected and refracted sound-waves produced by explosive charges dropped to the sea bottom. This way three strata were discovered on the bottom of the western

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SUV-11-58-10-1/12

The Structure of the Bottom of the Sea of Japan According to Data Obtained by the "Vityazi" Expedition

part of the basin of the Sea of Japan. The first is a superficial sedimentary stratum 1 to 1.5 km thick. The second is an underlying besaltic stratum, 6.5 to 7.5 km thick. The third is composed of ultrabaselts. It was also found that the primary complex-tectonic relief of the Sea of Japan basin was covered by a thick smooth, sedimentary layer. There are 3 tables, 1 map, 4 diagrams, 7 graphs and 23 references, 8 of which are Soviet, 12 US, 1 Japanese and 2 English.

SUBMITTED:

April 7, 1958

ASSOCIATION:

Institut okeanologii AN SSSR (The Institute of Oceanology

of the AS USSR)

1. Oceanography -- Japan 2. Ocean bottom -- Analysis 3. Seismic

waves---Applications 4. Source-Applications

Card 2/2

AUTHORS: Sysoyev, N. N., Udintsev, G. B.,

20-119-3-52/65

Andreyeva, I. B.

TITLE:

The Results of Seismic-Acoustic Exploration of the Bottom of the Japan Sea (Rezul'taty seysmo-akusti=cheskikh issledovaniy dna Yaponskogo morya)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3, pp. 575-578 (USSR)

ABSTRACT:

The two institutes mentioned below carried out the mentioned investigations on the ship "Vitya2" in 1957. The mentioned method contributed already (Refs. 1-3) to the collection of important material from various oceans. In the course of earlier works (Ref. 4) the main features of the tectonics of the Yaponskogo sea and the distribution of the ground deposits could be found out roughly. Therefore, it was of interest to continue these works. The seismic-acoustic investigations were carried out along 2 cross sections in vertical position to each other (Fig. 1). The working method corresponded in general to ref. 1. Explosions

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