26873 s/081/61/000/013/006/028 B105/B201

26.2521 AUTHORS:

Stetsenko A. I., Tverdovskiy I. P.

TITLE:

Overvoltage of hydrogen formation on disperse Pd - Pt and

Pd - Rh alloys

Referativnyy zhurnal. Khimiya, no. 13, 1961, 87, abstract PERIODICAL:

136663 (Sb. tr. Gos. in-ta prikl. khimii, 1960. vyp. 46,

TEXT: With the aid of a previously described method (RZhKhim, 1960, No. 15, 60716; 60717) it was shown that, unlike what is the case with Pt, the overvoltage of hydrogen formation on disperse Pd depends largely on the pH value. For the Pd electrode, the transition of 1 n H₂SO₄ to 2 n NaOH is accompanied by an increase of the absolute value of n and by an increase

of the coefficient b of Tafel's equation from 0.020 to 0.152 v. Dissolution of Pt or Rh in Pd results in a rapid decrease of the value of η in alkaline solutions. An addition of 25% of Pt to Pd lowers η to values obtained on pure Pt. For Pd - Rh alloys, h is rendered independent of the composition by adding ~40% of Rh. It was shown that the change of η and Card 1/2

26573 S/081/61/000/013/006/028 B105/B201

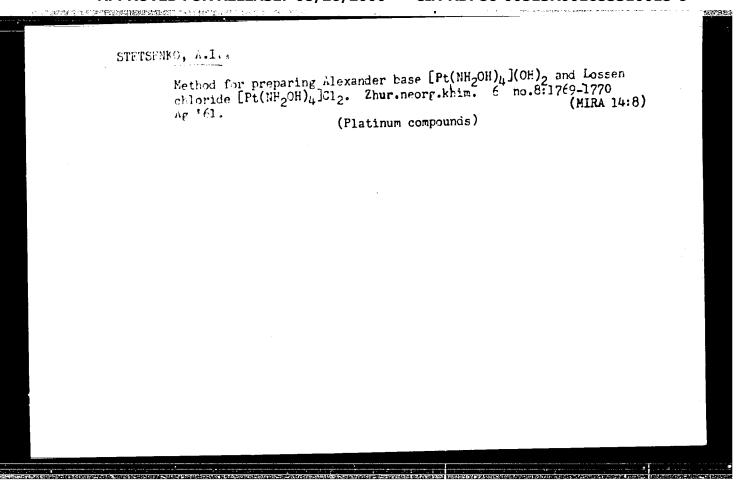
of the solubility of hydrogen are qualitatively similar functions of the composition of the systems investigated (Stetsenko A. I., Tverdovskiy I. P. "Zh. fiz. khim.", 1951, 26, 647; "Dokl. AN SSSR", 1952, 84, 997). Various assumptions were made concerning the possible causes of the decrease of " as a function of the composition of the alloy. [Abstracter's note: Complete translation.]

Card 2/2

GRIBBERG, A.A.; STORIC Co., A.A.

Acid-'Mass proportion of the first trens is over of [Pt(CH₂)₂(CH₂,OH)₂]Cl₂.

Zhur. near . Fig. (Protium someonal)



CRINBERG, A.A., akademik; STETSENKO, A.I.; IN'KOVA, Ye.N.

Acidic properties of cis- and trans-isomers of [Pt(glh)2(NH3)2] Cl2. Dokl. AN SSSR 136 no.4:821-823 F *61. (MIRA 14:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Platinum compounds)

GRINEERG, A.A.; STETSENKO, A.I.

Acidic properties of cis- and trans-isomers of [Pt(NH2OH)2(Fy)2]Cl2.

Zhur.neorg.khim. 7 no.12:2678-2684 D '62. (MTRA 16:2)

(Platinum compounds) (Isomerization)

L 12648-63 BDS/EWP(q)/EWT(m) AFFTC/ASID JD/HW-2
ACCESSION NR: AP3002699 S/0060/63/036/005/1040/1045

AUTHOR: Tverdovskiy, I. P.; Vert, Zh. L.; Karpova, R. A.; Mosevich, I. A. and L.C. stetsenko, A. I.

TITIE: Electrochemical extraction of dispersed binary alloys of palladium with metals of groups 8 and 18

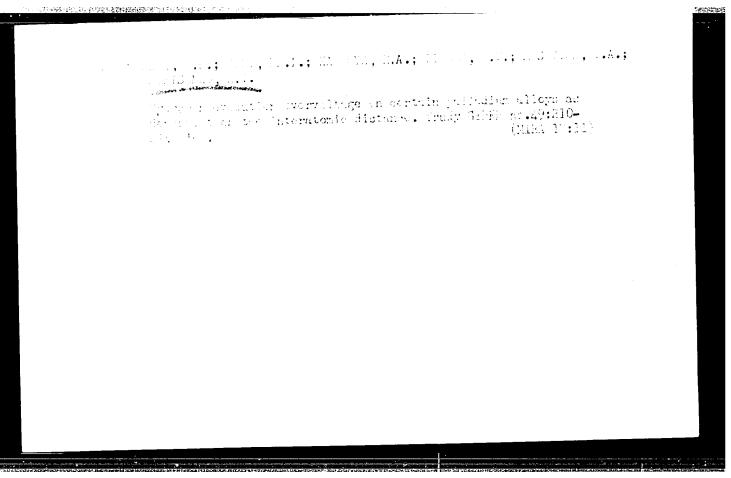
SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 5, 1953, 1040-1045

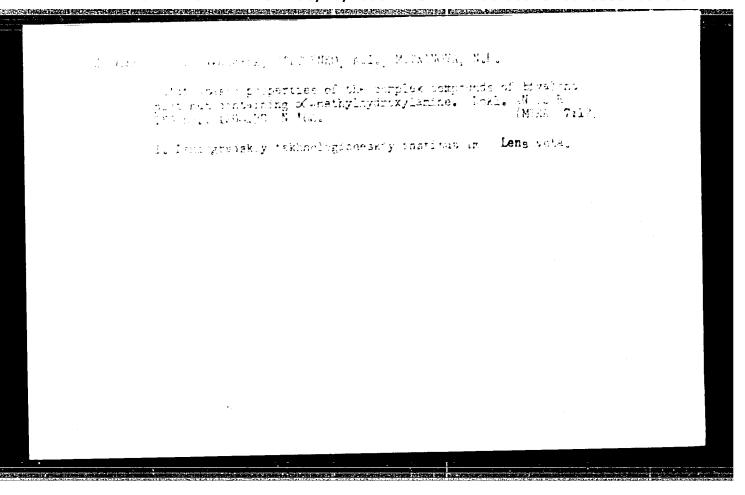
TOPIC TAGS: palladium, binary alloy, Pt, Rh, Au, Ni, Cu, Co, Fe

ABSTRACT: In examining the physico-chemical and catalytic properties of palladium-base binary alloys, electrolytic methods of extraction of mixed dispersed predipitations of systems Pd-Pt, Pd-Rh, Pd-Au were used. Abnormal results were obtained only for the system Pd-Nil when the introduction of nickel in palladium at 30-35% was not accompanied by a change in lattice constant. In the zone of richer neckel the sizes of the elementary cell of dispersed alloys coincided approximately with parameters of the compact forms according to data of Hultgen and Zapie (Trans. A.J.M.R. 133, 1939,58). Use of solutions on the basis of nitrite group of palladium permitted extracting alloys Pd-Cu Pd-Ni, Pd-Co and Pd-Fe-pot only by joint electrolysis, but also by chemical precipitation by means of reduction of metal ions by formate or sodium hypophosphite, hydrazine salts, etc. Orig. art. has:

Card 1/2/

Association: St. Inst. of Applied Chemistry





STETSENEO, A.K., inshener; DANILOV, V.I., inshener.

Dry nitrogen used for protection of machines and instruments.

Vest.mash. 37 no.6:32-33 Je '57.

(Protective atmospheres)

(Bitrogen)

TAYTS, N.Yu.; TREGUBOY, V.V.; STEISENKO, A.M.; MILOV, I.I.; ZELENSHIT, V.D. Scale formation during the heating of wheels in heat treating ring furnaces. Izv.vys.ucheb.zav.; chern.met. 8 no.6:159-162 (MIRA 18:8)

1. Dnepropetrovskiy ratallurgicheskiy institut.

ZVYAGINTSEV, A.F.; IVANOV, Yu.N.; KAZAKOV, V.E.; STETSENKO, A.M.; SOLOMOVICH, M.Ya.; KORZH, V.I.; DASHKEVICH, A.A.; Prinimali uchastiye: LIPTSEN, S.Kh.; RYZHIKOV, A.P.; STAL'NOKRITSKIY, V.N.; LEVENETS, L.Ye.; MOGILA, V.A.; KOVAL', A.A.; VIASOV, V.F.; ROSHCHIN, A.G.; RAYKO, V.P.; KORNIYENKO, V.G.; PANTYUSHKIN, N.V.

Investigating the possibility of manufacturing all-rolled electric locomotive wheels with existing equipment. Kuz.-shtam. proizv. 5 no.ll:ll-l4 N 163.

(MIRA 17:1)

A THE STATE OF SECURIOR SECURIOR AND A SECURIOR SECURIOR

IJP(c) JD/HH ENT(m)/ENP(t)/ENP(b) Pad S/0126/64/018/004/0632/0634 ACCESSION NR: AP4048779 AUTHOR: Palatnik, L. S.; Ravlik, A. G.; Stetsenko, A. N. TITLE: On phase composition of vacuum condensates of cobalt SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 4, 1964, 632-634 TOPIC TAGS: phase composition, cobalt, vacuum cobalt deposition, alpha cobalt beta cobalt, polymorphic cobalt modification ABSTRACT: The authors have experimentally investigated the influence of temperature and the nature of the substrate on the phase composition of vacuum deposited cobalt. The substrates (carbon film, condensate of NaCl, or glass) had a measured temperature gradient. The composition of the films was analyzed with the x-ray diffraction method. It was found that of lower temperatures (in the 20 to 200 C range) the & Co is formed (hexagonal closely packed lattice), and at higher temperatures (200 to 450 C)- the &Co is formed (cubic face center-

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310015-6"

ed lattice). It is possible that β -phase which is formed at lower temperatures is

Card 1/2

is her time

I, 43852-65 ACCESSION NR: AP4048779	<u></u>	7	
transformed into α -phase throformation is impeded at higher table.	ough the action of dislocation er temperatures. Orig. ar	n centers. This trans- t. has: 1 figure and 1	
ASSOCIATION: Khar'kovskiy kov Polytechnic Institute)	politekhnicheskiy institut i	m. V. I. Lenina (Khari	
SUBMITTED: 02Aug63	ENCL: 00	SUB CODE: MM , SS	
NR REF SOV: 006	OTHER: 007		
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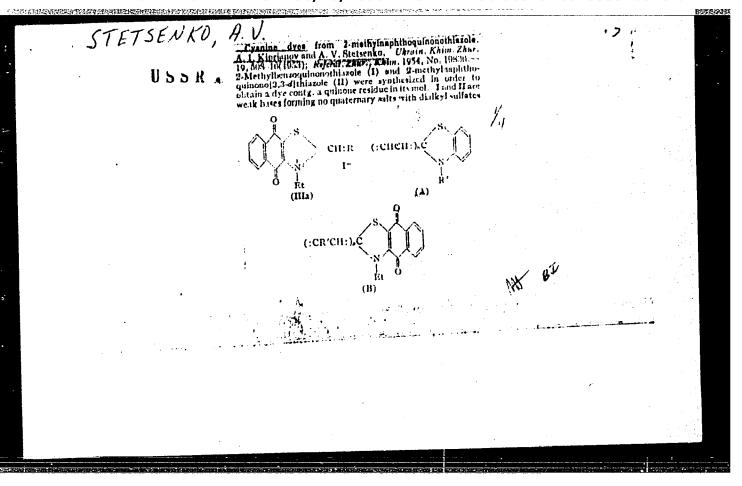
STETSENKO, A. V.

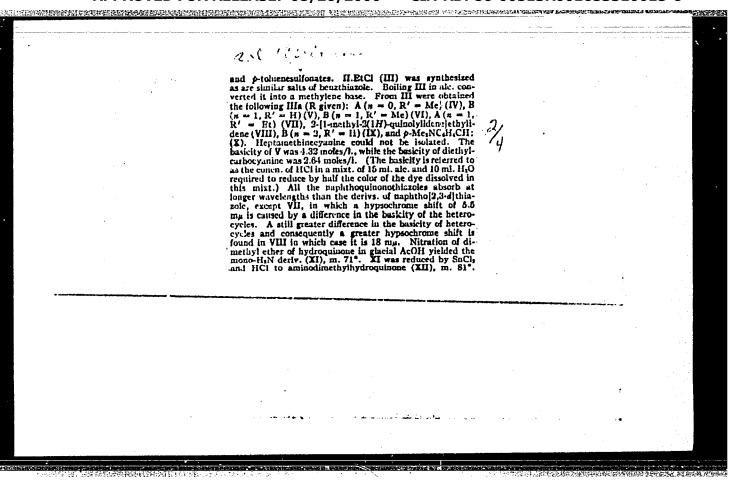
Dissertation: "Cyanine Dyes Containing Quinone Nuclei." Cand Chem Sci, Kiev State

U, Kiev, 1953

¥-30928

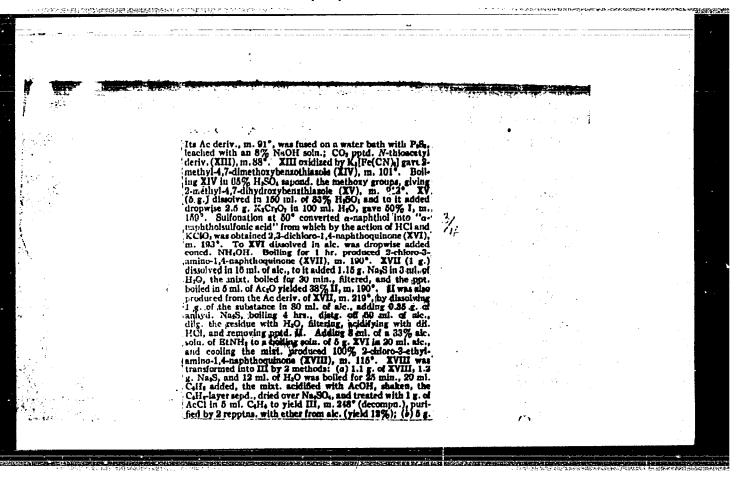
SO: Referativnyy Zhurnal, No. 1 5, Dec 1953, Moscow, AN USSR (N-29999)

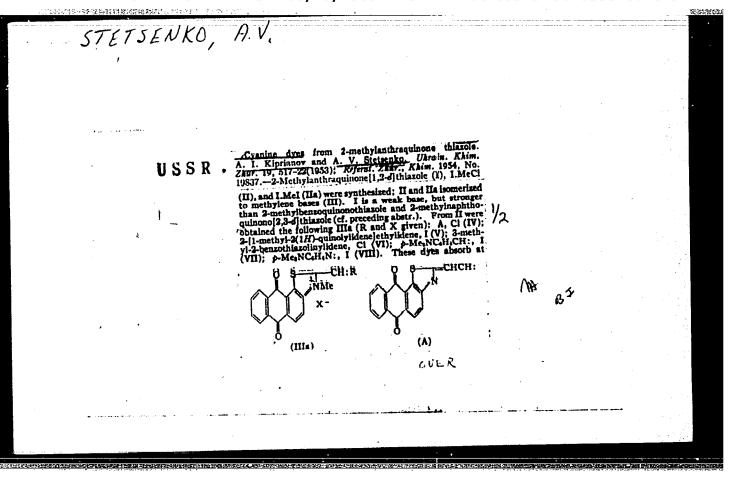




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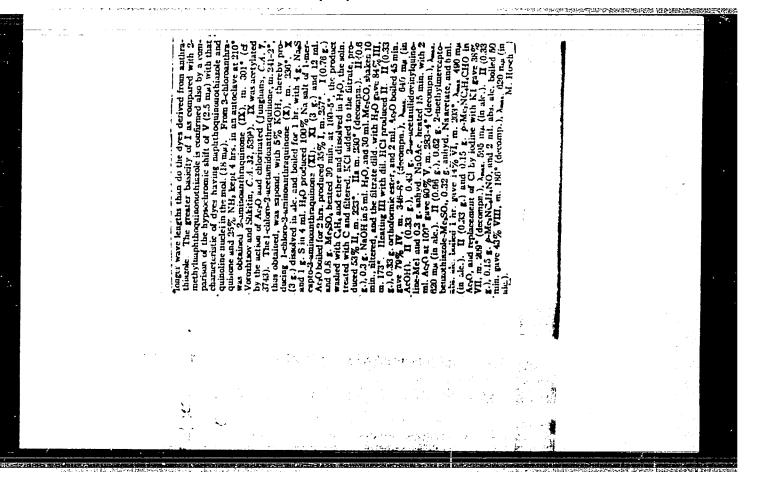
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CIA-RDP86-00513R001653310015-6



STE ISEWAD, A.V.

Reaction of methylene bases of ultrogen beterocycles with g. RiCO₁, 2 ml. H₁O, and 10 ml. CH₁, shaken, and the sept. Chine three the content of the co

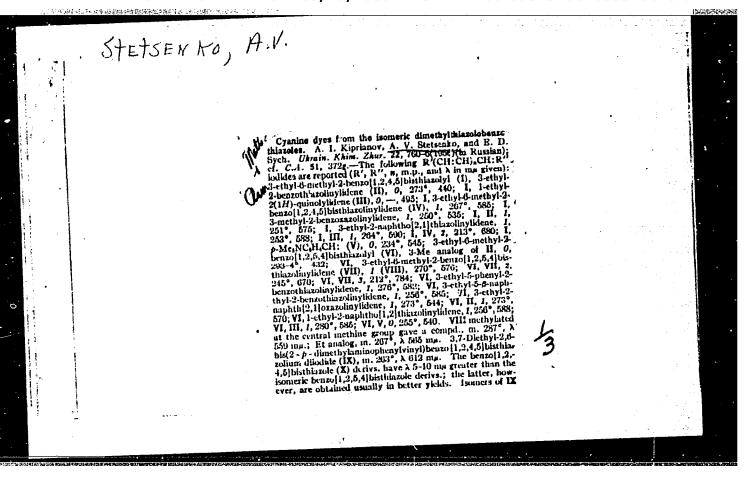
KIPRIANOV

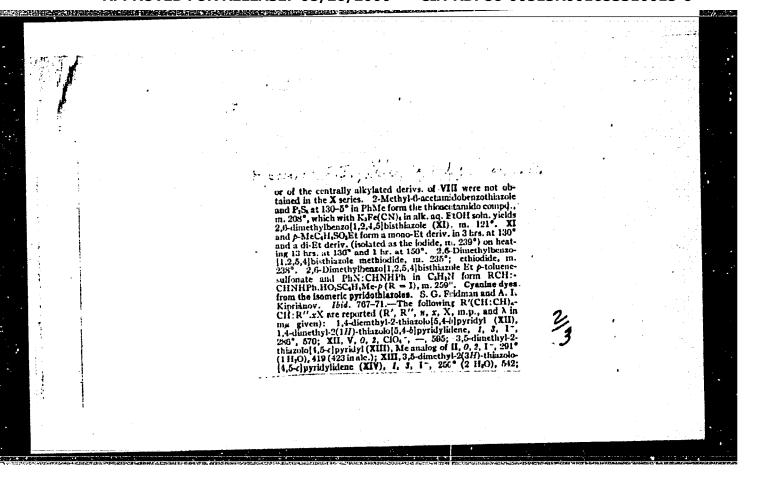
1.18 417. 2 - (3 - methyl - 3 - bensothusedinylidenemethyl) - 4. (from C44.), absorption max. 839 in RtOH 1890 in CHCL, 630 in Biolit. 640 in

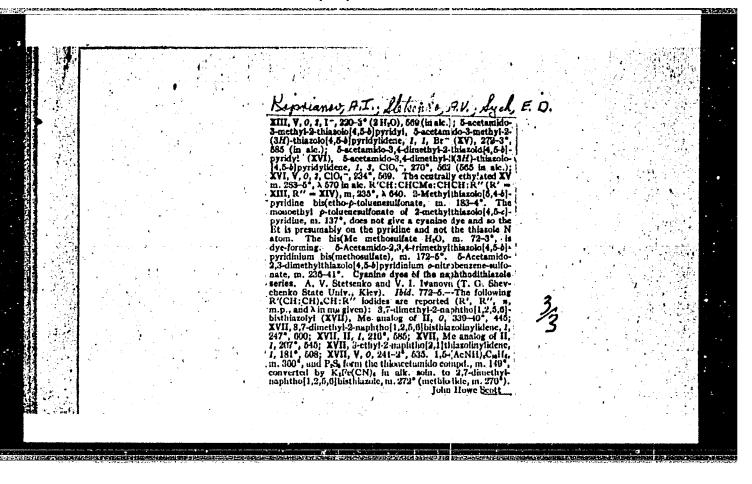
USHENKO, I.K.; STETSENKO, A.V.; RUBTSOVA, Ye.N.

Investigations in the chemistry of cyanine dyes. Part 8. 3,3'-diary1-6,7.6'.7',-dibenzothiacyanines. Ukr.khim.zhur. 20 no.5:530-534 '54. (MIRA 8:1)

1. Institut organicheskoy khimii Akademii nauk USSR. (Thiacyanines)







STETSUNKO, A.V.; IVANOVA, V.I. Cyanine dyes of the nanhthodithiasole series. Ukr. whim. shur. 22 (MIRA 10:7)

no.6:772-775 156.

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko, kafedra organicheskoy khimii. (Cyanine dyes)

STETSENKO, Aleksey Vasil'yevich [Stetsenko, O.V.], kend.khim.nauk; POCHINKO, V.Id. [Pochynko, V.Id.], kend.khim.nauk, red.; TEPLYAKOVA, A.S. [Tepliskova, A.S.], red.

[High molecular weight compounds and their importance for the national economy] Vysokomolekuliarni spoluky ta ikh znachennia dlia narodnoho hospodarstva. Kyiv. 1958. 30 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' UESR. Ser.4, no.11) (Gums and resins, Synthetic) (Polymers) (MIRA 12:2)

-MIKHNOVSKAYA, N.D.; ROTMISTROV, M.N., dokter bielegicheskikh nauk; STETSENKO, A.V., kand. khim. nauk; KULIK, G.V.

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenke. ; Predstavlena akademikom S.N. Muremtsevym. (Fungicides) (Salicylaniliee) (Carvacrol)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310015-6"

STETSENKO, A.V.; KURBATOVA, A.D.

Cyanine dyes of 2-methylacenaphthothiazole. Ukr. khim. zhur. 24 no.3:354-357 158. (MIRA 11:9)

1. Kiyevskiy gosudarstvennyyuniversitet im. T.G. Shevchenko, kafedra organicheskoy khimii.
(Dyes and dyeing) (Naphthothiazole)

大学的主义,我们就是这个人的一个人,我们就是我们的一个人,我们们们的一个人,我们们们的一个人,我们们们的一个人,我们们们的一个人,我们们们的一个人,我们们们的一个人

ROTMISTROV, M.N. [Rotmistrov, M.M.]; STETSENKO, A.V. [Stetsenko, C.V.]; KULIK, G.V. [Kulyk, H.V.]; VASILEVSKAYA, I.A. [Vasylevs'ka, I.O.]; KHARCHENKO, S.N. [Kharchenko, S.M.]

Study of new synthetic antimicrobial substances. Mikrobiol. zhur. 21 no.3:31-35 159. (MIRA 12:10)

1. Z kufedri mikrobiologii Kiivs'kogo derzhavnogo universitetu.
(SALICYLIC ACID rel cpds)
(ANTIBIOTICS chem)

S/073/60/026/001/014/021 B004/B054

AUTHORS: Stetsenko, A. V. and Bogodist, Yu. I.

TITLE: Cyanine Dyes From 2-Methyl-4,5.7-trichlorobenzimidazole

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 1. pp 92-95

TEXT: The authors report on the synthesis of imido carbocyanines containing three chlorine atoms on the benzimidazole radical. They proceeded from 2-methyl-4,5,7-trichlorobenzimidazole. The latter was converted to the quaternary salts of 1,2-dimethyl-4,5,7-benzimidazole by means of dialkyl sulfates or halogen alkyls. From these salts, six dyes of the

general structure

C1 CH were synthesized. The authors

determined the absorption maxima, and calculated the hypsochromic shift according to A. I. Kiprianov. The latter is defined as the difference

Card 1/4

Cyanine Dyes From 2-Methyl-4,5.7-trichlorobenzimidazole

S/073/60/026/001/0:4/02: B004/B054

between the arithmetical mean of the absorption maxima of the two symmetrical dyes synthesized from the same heterocycles, and the absorption maximum of the asymmetric dye. Table : gives these data

Dye	Z=	λ _{max} , mμ	hypaconiomic shift
I	CH=C N C1	520	·
II	CH=C CH z	480	22.5
III	CH=C S C2H5	514	.3
Card 2/4	,		

anine Dyes From 2-Methyl-4,5,7-trichlord- nzimidazole		S/073/60/026/001/014/021 B004/B054		
Dye	Z≠	λ _{max} , mμ	hypsochromic shift	
IA (CH=C S	536	22.5	
V (CH= N C 2H 5	557	5.5	
VI (N(CH ₃) ₂	435		

Card 3/4

Cyanine Dyes benzimidazole	From 2-Methy	l-4,5.	7-tric	hlore		73/60/026/00 4/B054	01/014/021	
general struc	eture R: I	R.	CH ₃	CH=CH-CH-	CH 3	R R 1		
Dye) subs) tituen	ts:))		<i></i>
-0 -	R	R,	R ₂	R ₃	λ	μ		
1	Н	H		Ħ	4	89		
2	Ħ	C1		H		07		
3	H	C1		H	جَ ا	15		
á	Cl	H	_	Cl	Ś	20		
There are 2 t 2 Italian, ar	ables and 7 mid Swiss	efere	nces:	4 Soviet	2 US	5 German, 2	French.	
ASSOCIATION:	Kafedra crga universiteta Chemistry on	i im. !	r G. S	hevshenko	(Depar	iment of Org	ganic)
SUBMITTED.	October 25.	1958						
Card 4/4								

ROTMISTROV, M.N.; STETSENKO, A.V.; KULIK, G.V.; VASILEVSKAYA, I.A.; BAYSHEVA, V.G.; GAMALEYA, N.F.

Antimicrobial properties of some acenaphthene derivatives, Mikrobiologiia 29 no.5:757-761 S-0 '60. (MIKA 13:11)

1. Kiyevskiy gosudarstvennyy universitet.
(ACENAPHTHENE) (ANTISEPTICS)

Cyanine dyes, derivatives of 2-methylanthraquinon-(1, 2; 5,4)imidazole. Ukr.khim. zhur. 27 no.2:237-240 61. (MIRA 14:3)

LKiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko, kafedra
organicheskoy khimii.
(Cyanine dyes)

STETSENKO, A.V.; LISHKO, V.K.

生物的 1886年發出時間發展發展地震時期至明1987年,對120日1

Imidocyanines containing electronegative substitutes. Ukr.khim. zhur. 28 no.2:218-222 '62. (MIRA 15:3)

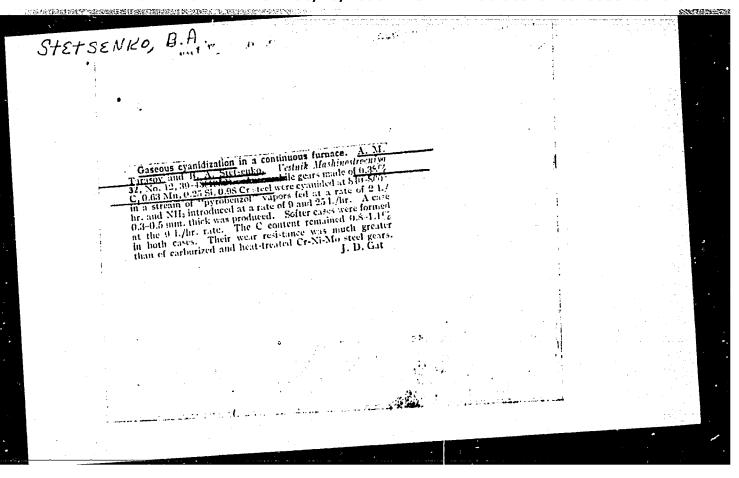
1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko. (Cyanines)

STETSENKO, A.V.; KRAVETS, L.I.

Cyanine dyes from 2-methylacenaphtheno-4',5' : 4,5-thiazole. Ukr. khim. zhur. 30 no.1:75-80 '64. (MIRA 17:6)

1. Kiyevskiy gosudarstvennyy universitet imeni Shevchenko.

Research work of a young institute. Tekst. prom. 25 no.12:88-89 p 165.



STETSENKO, B.A.

USSR/Miscellaneous

Pub. 12 - 8/15 Card 1/1

Tarasov, A. M., and Stetsenko, B. A. Authors

Use of kerosene as a carburizing agent for gaseous cementation Title

Avt. trakt. prom. 2, 25-28, Feb 1954 Periodical

The use of lighting kerosene (standard GOST 4753-49) in the role of carburizing agent for gaseous cementation in continuous-operation Abstract

furnaces, with direct feeding of the liquid carburizing medium and in shaft furnaces, is described. The strength of details cemented with lighting kerosene and pyro benzene, is identical. Methods of reducing the soot formation and improving the circulation of the

carburizing agent between the treated details, are presented. Tables;

graphs; drawings; illustrations.

The V. M. Molotov Automobile Plant, Gorkiy Institution:

Submitted:

STETSTIKO, 3. i.

USSR/ Engineering - Metal hardening

Card

: 1/1 Pub. 128 - 14/32

Authors

Tarasov, A. M. and Stetsenko, B. A.

Title

Hardening of metal by a diffusion process with high frequency heating of

components.

Periodical

Vest. mash. 34/7, 50 - 52, July 1954

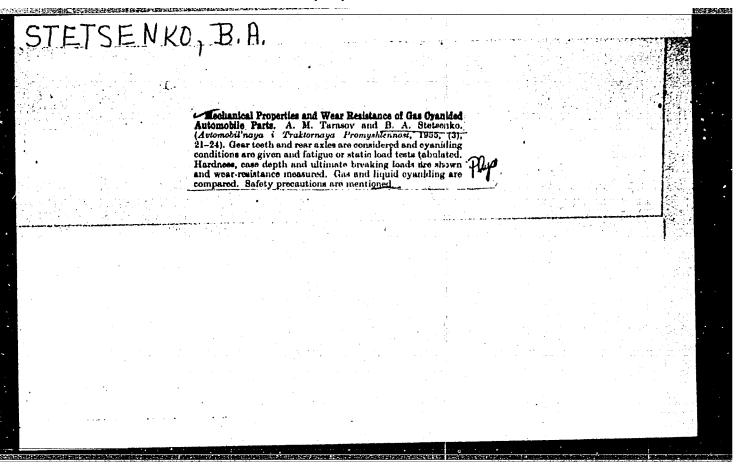
Abstract

Hardening of metal by gas diffusion with high frequency heating of components, is described. General information is given on diffusion processes, hardening, cyanization, temperatures, and types of steel. Illustrations;

drawing.

Institution : ...

Submitted



STETSENKO, B.A.

USSR/ Engineering - Processing metal

Card 1/1

Pub. 128 - 22/35

Authors

Tarasov, A. M., and Stetsenko, B. A., Engineers

Title

Defects of cementation in a hard carbonizer

Periodical:

Vest. mash. 35/3, 70 - 73, May 1955

Abstract

A description is given of experiments conducted in cementation in a hard carbonizer in place of gas cementation. The method of operation, materials used, temperatures applied, rates of heating and cooling and other points are examined as to their effect on the finished product. The disadvantages of the use of a hard carbonizer in place of gas are pointed out. Four USSR references (1949-1953). Illustrations; diagrams; graphs; table.

Institution:

.

Submitted

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STETSENKO,

USSR / Mechanical Properties of Crystals and Polycrystallic

E-9

Compounds.

: Ref Zhur - Fizika, No 4, 1957, No 9462 Abs Jour

: Stetsenko, B.A. Orig Pub

: Gor kly Automobile Plant Inst

: Causes of Formation of Irreversible Temper Brittleness Title

: Metallovedeniye i obrabotka metallov, 1956, No 7, 38-35 Orig Pub

: The existing hypothesis explain the irreversible temper Abstract

brittleness of hardened steel (a) by the decay of the residual austenite and (b) by the separation of disperse carbides. The author investigated the cause of temper brittleness of 40Kh steel (0.38 -- 0.43% C). Polished specimens 10 x 10 mm with a notch were quenched from 820° in oil, and then tempered in saltpeter bath in the 200 --550° range. Second hardening increase sharply the impact viscosity, although the zone of increased brittleness (275 -- 350°) remained. It is possible to assume that in

: 1/2 Card

USSR / Mechanical Properties of Crystals and Polycrystallic Compounds.

E-9

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: Ref Zhur - Fizika, No 4, 1957, No 9462

Abstract

Abs Jour

the 40Kh steel, as in the 20 KhNM steel, the amount of residual austenite after the second hardening decreases. This should influence the course of the curve of the impact viscosity towards increasing the interval of temper brittleness. The same effect should be seen in the increase of rate of cooling upon hardening. However, experiments have shown that cooling of water gives a more pronounced interval of increased temper brittleness. The results obtained show that the decay of the residual austenite in steels which are contained in an insignificant amount after hardening is not a principal factor causing the temper brittleness. The author believes a more acceptable cause to be the separation of disperse carbides from the solid solution or the separation of compounds that reduce the impact viscosity of steel.

 $C_{\mathbf{a}}$ rd

: 2/2

AUTHOR:

Stetsenko, B.A., Engineer.

129-4-10/17

TITLE:

On high speed heating during heat treatment. (O skorostnom

magreve pri termicheskoy obrabotka.)

PERIODICAL:

"Metallovedenie i Obrabotka Metallov" (Metallurgy and Metal Treatment) 1957, No. 4, pp. 47 - 50 (U.S.S.R.)

AESTRACT:

For studying the possibility of application of high speed heating during hardening and tempering of steel experiments were carried out involving heating of steel in ordinary furnaces, the temperature of which considerably exceeded the required temperatures. The effect was studied on cylindrical specimens consisting of fine grain 40% steel of 60 mm dia., 180 mm length, composition: 0.35-0.45% C, 0.17 - 0.37% Si, 0.50 - 0.80% Mn, 0.80 - 1.10% Cr, max. 0.40% Ni. For measuring the temperature one of the specimens was provided with a 10 mm dia. 90 mm deep hole into which a thermo-couple was inserted. The specimen with the thermo-couple was subjected to high speed heating at 1 000 and 850 C in an electrically-heated chamber furnace. The results are plotted in graphs and entered in a table. It can be seen from the curves, Fig. 1, that a temperature of 870 C in the core of the specimen is reached after 11 mins in the case of a furnace temperature of 1 000 C and for a furnace temperature of 850 C the core of the specimen is

Card 1/3

On high speed heating during heat treatment. (Cont.)
129-4-10/17

heated to 540 °C in 8 mins. The properties are compared of specimens which were heated for 1 1/2 hours and hardened from 850 °C in oil, whereby one of the specimens was subsequently tempered for 1 1/2 hours at 540 °C, with specimens heated for 8 mins in a furnace of a temperature of 1 000 °C; in the latter case one of the specimens was tempered in a furnace at 850 °C for 11 mins. In the case of high speed heating the micro-structure of the surface zones of the hardened specimens consists of troostite—martensite and the core of sorbite and ferrite. High speed hardening followed by high speed tempering brought about a considerable improvement in the impact strength of the steel. It is concluded that high speed heating enables to reduce considerably the duration of heat treatment and to improve the strength of the steel. During rapid heating it is very difficult to control the temperature of the furnace and of the components pyrometrically; the temperature of the components increases rapidly and for ensuring uniform heating and preventing over-heating of the steel the heating has to be stopped in time. In flow production processes such heat treatment can be effected in automated high

Card 2/3

129-10-10/12 AUTHOR: Stetsenko, B.A.

(O promy-On industrial utilisation of gas cyaniding. TITLE: shlennom primenenii gazovogo tsianirovaniya)

"Metallovedeniye i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No.10, pp. 43-48 (U.S.S.R.) PERIODICAL:

ABSTRACT: All the gear box gears produced by the Gorki Automobile works are made of 40% steel containing 0.38 - 0.43 and 0.36 -0.41, c and subjected to liquid cyaniding to a depth of 0.18 and 0.25 mm, followed directly by hardening in oil. These gears proved satisfactory in service and technologically. A more progressive method is gas cyaniding; it ensures good properties of surface-hardened components, as was confirmed by comparative fatigue tests with gear boxes of the Pobeda car which were cyanided in a gaseous medium and in a liquid medium to a depth of 0.18 mm. In spite of the advantages, gas cyaniding is not being adequately used in industry owing to technological difficulties and due to the fact that available information is not adequately disseminated. Due to the relatively low process temperature (800 - 850 C), it is advisable to use for gas cyaniding medium carbon steels since for such steels, the temperature of the cyarding process can be made equal to

the hardening temperature, ensuring adequate hardening depth Card 1/2

129-10-10/12

In industrial utilisation of gas cyaniding. (Cont.) and strength after the hardening process. Practical problems of gas cyaniding are discussed on the basis of practical experience and some literary data. It is mentioned that cyanide hardened layers have a characteristic feature, namely, no excess cementite in the form of a lattice or grains was ever observed in the micro-structure, not even in cases in which the surrounding zone of the layer is strongly saturated with carbon. The author emphasises the importance of introduction on a wide scale of gas cyaniding.

There are 2 tables and 4 Slavic references.

ASSOCIATION: Gorki Automobile Works (Gorkovskiy Avtozavod)

AVAILABLE: Library of Congress

Card 2/2

STETSENKO, B.A.

Determining the size of the austenite grain by high-temperature gas cyanidation. Zav. lab. 23 no.3:326-327 57. (MIRA 10:6)

1. Gor'kovskiy avtomobil'nyy savod im. V.M. Molotova. (Austenite--Metallography)

CIA-RDP86-00513R001653310015-6 "APPROVED FOR RELEASE: 08/26/2000

AUTHOR:

Stetsenko, B.A.

CONSTRUCTION OF THE SECOND OF

SOV/113-58-2-12/15

TITLE:

والمداد فولونون والم Increasing the Service Period of the Main Gear of a GAZ-63 Automobile (Povysheniye sroka sluzhby glavnoy peredachi av-

tomobilya GAZ-63)

PERIODICAL:

Avtomobil'naya promyshlennost:, 1958, Nr 2, pp 40 - 42

(USSR)

ABSTRACT:

The resistance to wear of gears is increased by using smallgrained steel type 20KhNM. Several gears were tested on a special stand driven by a 90-kw electromotor at 940 rpm. Table 1 shows that the gears processed by carbonization in a solid carburizing agent lasted 3.5-37 hours on the stand, the majorit; being between 3.5-13.5 hours. Figure 1 shows the type of wear on the cogs of the tested gears. The results of the chemical analysis layer by layer are given in Table 2. A partial decarbonization of the carbonized layer and its saturation by nitrogen takes place during heating for tempering (Figure 2). The data of Table 2 shows that

Card 1/2

steel processed by gas carbonization has an increased

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310015-6"

SOV/113-58-2-12/15

Increasing the Service Period of the Main Gear of a GAZ-63 Automobile

bending resistance and resilience. There are 2 tables,

2 graphs, 4 photos, and 3 Soviet references.

ASSOCIATION: Gor'kovskiy avtozavod (Gor'kiy Automobile Plant).

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1. Gears--Life expectancy 2. Gears--Carbonization 3. Gears--Heat treatment 4. Gears--Testing equipment 5. Gears--Test

results

Card 2/2

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s/129/60/000/011/012/016 E073/E535

AUTHOR:

Stetsenko, B. A., Engineer

TITLE:

Increasing the Strength of Cyanided Steel

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1960, No.11, pp. 46-47

TEXT: In view of the possibility of controlling the process of gas cyaniding, the author studied the influence on the strength of cyanided steel of feeding into the furnace kerosene and ammonia. For this purpose, the gears of the M-20 motor car gearbox, notch-free 10 x 10 x 55 mm impact test specimens and 10 x 12 x 80 mm bending test specimens were used. In testing for static bending the distance between the supports was 60 mm. For layer by layer chemical analysis of the cyanided layer, specimens of 35 mm diameter, 120 mm length were used, from each of which 3 to 4 batches of chips were taken, the thickness of the first batch being 0.05 mm and that of the subsequent ones being 0.10 mm. The specimens were subjected to gas cyaniding in a laboratory shaft furnace (300 mm diameter, 650 mm deep) at 815°C for 90 min with various speeds of feeding the kerosene and the ammonia. Following that, the gears and the specimens were quenched in oil and Card 1/3

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Increasing the Strength of Cyanided Steel

tempered at 200°C. Then, the bending strength of the gear teeth was tested by means of a press, breaking 3 to 4 teeth in each gear. The strength depended on the mechanical properties of the cyanided layer, since under all gas cyaniding regimes the temperature, the duration of the process and the method of quenching were identical. The results (which are tabulated and graphed) lead to the following conclusions:

- 1) The kerosene/ammonia ratio influences the contents of carbon and nitrogen in the cyanided layer and also the strength of the cyanided steel.
- 2) The hardness of the cyanided surface is high enough and practically equal for all the gas cyaniding regimes tried in the experiments.
- 3) The best combination of bending and impact strength is obtained under the regime No.5, which consists of feeding into the furnace 25 to 30 drops/min of kerosene, 2 l/min of ammonia. The speed of diffusion of carbon and nitrogen is relatively high; at a depth of 0.25 mm the layer contained 0.78% C and 0.25% N. This compared with 0.61-0.72% N and 0.02-0.16% N for specimens subjected to the other Card 2/3

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S/129/60/000/011/012/016 E073/E535

Increasing the Strength of Cyanided Steel

regimes. At the surface the carbon concentration is near to its eutectoidal value. The bending strength was 247 kg/mm^2 and the impact strength was 2.06 kgm. The breaking force of the teeth was 5075 kg. There are 1 figure and 1 table.

ASSOCIATION: Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile Works)

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Card 3/3

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E073/E135

1.1710

AUTHOR: Stetsenko, B.A., Engineer

TITLE:

Application of Double Quenching

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,

1961, No. 1, pp. 62-63

TEXT: The authors investigated the influence of double quenching on the strength properties of 40 X (40Kh), 20 XHM (20KhNM) and 18 XHVA (18KhNVA) steels. The strengths in static and dynamic tests were determined on 10 x 12 x 80 mm specimens. The distance between the supporting points in bend tests of prismatic specimens was 60 mm. The specimens were heat treated under shop conditions. The impact strengths of cyanided and of case hardened steels were determined on notch-free specimens. The bending strengths of gears were tested and these were also tested in rear axles and gear boxes of motor cars. The impact and bending strengths of all these steels increased considerably after double quenching. In the core and in the diffusion layer of the specimens the structure was fine grained; the quantity of residual austenite decreased considerably in the diffusion layer. For Card 1/3

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Application of Double Quenching

verifying the effectiveness of double quenching, 7 gear blocks were quenched and 4 of these were quenched for a second time. These blocks as well as standard gears were used in gear boxes. The gears with the standard gears were subjected to shot peening. The results of stand fatigue tests of the gear boxes were as follows:

Torque, kgm		Service life (until te	eth failure), hrs.
Primary shaft	Secondary shaft	1 quenching	2 quenchings
22 22 22 22 22	39 39 39 39	78 65 65 -	48 16 11 8

The results show that the fatigue strength was considerably lower Card 2/3

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S/129/61/000/001/012/013 E073/E135

Application of Double Quenching

after double quenching. This is attributed to increased deformation of the gear teeth after repeated quenching which disturbs correct meshing. As a result of heat treatment of the rear axles the driven pinions suffered considerable deformation. The following conclusions were arrived at: 1) Double quenching increases the strength of steel; 2) For components that are not prone to considerable deformations during quenching, double quenching can be effective for increasing the strength and service 3) For components which suffer a high degree of deformation during the first quenching, a second quenching is not recommended.



There is 1 table.

Gor'kovskiy avtomobil'nyy zavod ASSOCIATION:

(Gor'kiy Automobile Works)

Card 3/3

GLADKIKH, A.N., kand.tekhn.nauk; STETSENKO, B.A.; GITEL SON, N.I.

Improving the quality of the steel used for cold upsetting. Stal' 21 no.8:758-761 Ag '61. (MIRA 14:9)

1. Gor'kovskiy politekhnicheskiy institut i iroyektno-tekhnologicheskiy i nauchno-tekhnicheskiy institut Gor'kovskogo sovnarkhoza.

(Stoel--Metallorgrpahy) (Forging)

GLADKIKH, A.N.; STETSENKO, B.A. Quality of steel for cold upsetting. Metallurg 8 no.7:29-30 J1 *63. (MIRA 16:8) 1. Zavod "Krasnaya Etna." (Forging)

ACC NR. AP6018640 (A) SOURCE CODE: UR/042 JD/J3/AT/AH SOURCE CODE: UR/0422/66/000/005/0087/0087 AUTHOR: Arone, R. G.; Balakina, I. A.; Bochkareva, A. I.; Stetsenko, B. A.; Sokolovskiy, P. I. 118 ľ ORG: none TITLE: A standard for low-alloy structural steel SOURCE: Standarty i kachestvo, no. 5, 1966, 87 TOPIC TAGS: construction material, structural steel, alloy steel, welding evaluation, mechanical property / 16GS steel, 09G2S steel, 10G2S1 steel ABSTRACT: A series of innovations in low-alloy structural steels (GOST 5058-65) based on recent work done at the Central Scientific Research Institute for Ferrous Metallurgy is described. Mineteen new grades of high strength low-alloy steel containing small amounts of carbide and nitride forming elements (Ti, V, Zr, Nb) were developed. Higher quality and performance are claimed for the new materials and suitable applications are recommended. The steels were melted in standard Martens furnaces and oxygen-converted. While the majority are used in the hot-rolled condition, they may be heat-treated to yield strengths of 40-50 kg/cm² with a saving of 20-30% in material. The heat-treated steels possess lower brittle fracture tendencies and slight aging sensitivity. Phosphorus and sulfur contents of the steels were maintained within strict limits (below Card 1/2

Category: USSR/Optics - Photometry, colorimetry, and illumination engineering

K-10

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 2613

: Kondilenko, I.I., Stetsenko, B.N. Author

: Luminescent Heterochromous Photometry in the Ultraviolet Title

Orig Pub : Nauch. zap. Kyivs'k. in-ta, 1955, 14, No 8, 137-140

Abstract : L.N. Anan'yeva's and A.A. Shishlovskiy's method (Dokl. AN SSSR 1937, 17, 183) for the measurement of the distribution of energy in the spectrum of a source of light in the UV region was modified and simplified. Instead of a luminescent plate, brought in contact with the photographic emulsion, the authors coated a layer of luminophor in the form of a viscous mass (mixture of 1.5 cc alcohol solution of Na salycilate with a concentration 0.5 g/cc and 3 cc of aqueous solution of agar-agar with a concentration 0.15 g/cc) directly on the photographic emulsion. After photographinf the luminescence occuring when the photographic layer is illuminated by the investigated source in the spectrograph, the layer was washed off in warm water. This layer is suitable for accurate measurements only at >> 210 mm; at smaller wavelengths there is some absorption of light by the agar-agar, which, however, does not prevent a qualitative study of the spectrum in this region. The energy distribution in the spectrum of the SVDSh-250 mercury lamp measured with the above method in the 248--365 mp region is given.

: 1/1 Card

L 28432-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG/GD

ACC NR: AT6015147 SOURCE CODE: UR/0000/66/000/000/0322/0326

AUTHOR: Yatsenko, A. F.; Kulyupin, Yu. A.; Stetsenko, B. V.

ORG: Institute of Physics AN UkrSSR (Institut fiziki AN UkrSSR)

TITLE: Using lasers for studying the kinetics of photoelectric field emission

SOURCE: Respublikanskiy seminar po kvantovoy elektronike. Kvantovaya elektronika (Quantum electronics); trudy seminara. Kiev, Naukova dumka, 1966, 322-326

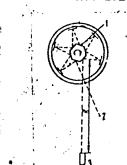
TOPIC TAGS: photoelectric effect, field emission, laser application, silicon, laser, pulse generator

ABSTRACT: A method is proposed for using a continuous-duty helium-neon laser to produce short intense light pulses. An example is given illustrating use of these light pulses for studying the kinetics of photoelectric field emission from high-resistance silicon. Two methods were used in this study: 1. measurement of the drop in photoelectric field emission under pulsed illumination, and 2. determination of the variable and constant components of field emission current under illumination by a sinusoidally modulated light. The short light pulses were produced by a mechanical system with a rotating prismatic mirror (see figure). The light source was an LAK-1 the laser (λ =6328 Å, power 100-300 µw, divergence angle less than 10'). The installation gave a pulse duration of $2 \cdot 10^{-7}$ sec with a 1 cm light spot at the pickup. The

Card 1/2

L 28432-66

ACC NR: AT6015147



Mechanical generator of short light pulses: 1--prismatic mirror; 2--light source; 3--light receiver

distance between pulse generator and receiver may be increased by an order of magnitude and a long-focus lens may be used to reduce the spot diameter to 0.1 cm or less. These measures would make it possible to reduce the pulse duration to 10⁻⁹ sec. The variable and constant component of photoelectric field emission produced by exposing an emitter to light modulated with a frequency of 4.6 Mc were measured to study the fast component of relaxation. The

modulating element was a KDP crystal placed between the laser and a polarization prism. A block diagram of the experimental installation is given. An attempt was made to establish the upper limit of frequencies which may be recorded by a photoelectric field emitter. The experiments yielded satisfactory agreement between calculated and observed frequencies although the photoelectric field emitter was not able to record a signal at 67 Mc, apparently due to inperfections in the method. Further attempts in this direction are being made. Orig. art. has: 3 figures. [14]

SUB CODE: 20/ ATD PRESS: 5005 SUBM DATE: 12Feb66/

ORIG REF: 002/

OTH REF: 008/

Card 2/2 (%)

 $\frac{\text{L }23457-65}{\text{EWP}(k)/\text{EWA}(m)} \frac{\text{EWG}(j)/\text{EWA}(k)/\text{FBD/EWT}(1)/\text{EWP}(e)/\text{EWT}(m)/\text{EEC}(k)-2/\text{EEC}(t)/\text{T/EEC}(b)-2/\text{EWP}(k)/\text{EWA}(m)^2/\text{EWA}(m) Pn-4/P0-4/P1-4/Peb/P1-4/P1-4 IJP(e) WG/WH$

ACCESSION NR: AP5000631

\$/0185/64/009/011/1267/1268

AUTHOR: Broude, V. L.; Pogoryelyy, O. H.; Soskin, H. S.; Stetsenko. B. V.; Yatsenko, O. F.

TITLE: Radiation fluctuations of a pulsed laser 15

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 9, no. 11, 1964, 1267-1268

TOPIC TAGS: laser, pulsed laser, laser radiation intensity, ruby crystal, neodymium glass

ABSTRACT: An investigation is made of the relationship between the intensities of "spikes" radiated from two ends of a pulsed laser. A special laboratory setup was used for the measurement of laser radiation. The measurements consisted in photographing the flashes from both ends of the crystal. The intensities of "spikes" were measure d (with an accuracy of 5-10%) and their ratios calculated. The ratios of radiation intensities from two resonator ends for different "spikes" within the same flash differed by as much as 20 to 40 percent. Other regularities, such as the dependence of

Card 1/2

L 23457-65

ACCESSION NR: AP5000631

scattering on intensity and the moment of "spike" radiation within the flash were not observed. Noncorrelation of laser radiation intensity with ruby crystal and neodymium glass in the case of diclectric mirrors with a reflection coefficient close to 100 percent was approximately identical. Scattering decreases when pumping is increased above the threshold. Orig. art. has: 2 figures. [KM]

ASSOCIATION: Instytut fizyky AN URSR, Kiev (Institute of Physics, AN UKrSSR)

SUBMITTED: 25Jun64

ENCL: 00

SUB CODE:

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NO REF SOV: 005

OTHER: 001

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SICTORE, G., inde.

Secting the related cultivator weeps in the zone served by the eye and an Machinery experimental Station. Trakt, i self-knowledge of the eye and so the eye and so the eye and the

STETSENKO, G.I., inzh.

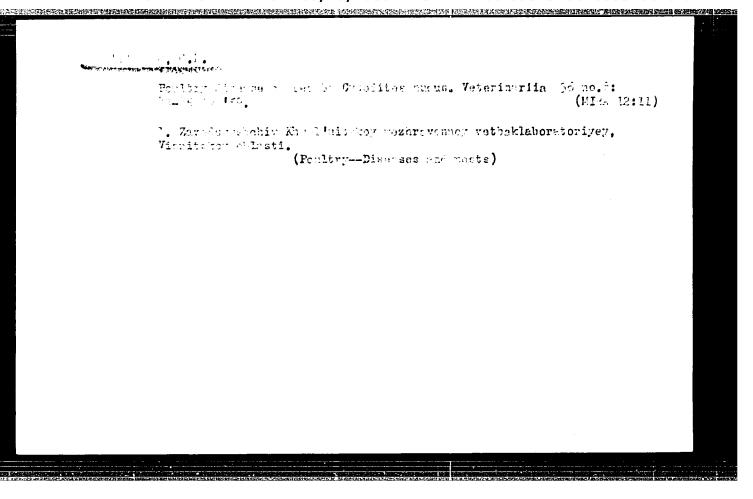
Investigating corncob cleaners. Trakt. i sel'khozmash. 33 no.12: 33 D '63. (MIRA 17:2)

1. Kazanskaya mashinoispytatelinaya stantsiya.

STETSENKO, G. P.

F. K. Borisovich reviewed an article by G. P. Stetsenko, "On the Problem of the Therapy and Prophylaxis of Fowl Plague," in which he states that for treatment of chicken ill with plague, and for prophylaxis of this illness, the author (Stetsenko) tested a number of preparations, such as: camphor serum (according to I. I. Kadykov) in 0.5 - 2 cc dose.

S0: Veterinariya; Vol. 23; No. 8-9; 16/18; August/September 1946 Unclassified. Trans. #312 by L. Lulich



STETSENKO, G.Ye., kandidat tekhnicheskikh nauk.

Grinding the conical slide block plunger. Zhel.der.transp. 37
no.10:?1-72 0 '55.

(Locomotives--Valve-gears)

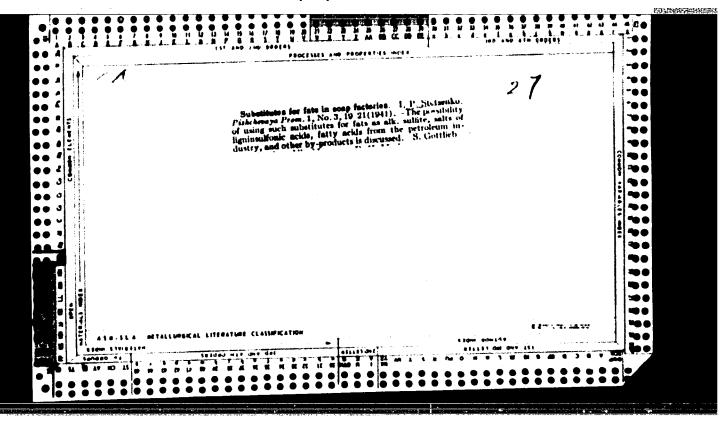
GUBERNATOROVA, V.D.; IGNATOVSKAYA, L.I.; Talkin N. L.N.; STETSENKO, I.A. (Ryazan')

Diagnostic importance of the entityalurentiase titer in rheumatic fever. Nauch. trudy Riaz. med. last. 14:222-227 '63. (MIRA 17:5)

PANASENKO, G.P.; PRYANISHNIKOV, V.Ye.; STETSENKO, I.P.; CHOPIKASHVILI, M.A.

Some test results of cast core bits. Rasved.i okh.nedr 28
no.3:22-26 Mr 162. (MIEA 15:4)

1. Volgo-Donskoye geologicheskoye upravleniye.
(Boring machinery--Testing)



- 1. TETSETTO, I.P., Eng.
- 2. USSR (600)
- 4. Oils and Fats
- 7. Problem of breaking down fats with high initial acidity. Masl. zhir. prom. 17. no. 7. 1952.

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

S	T	E	Ī	Ś	E	N	Ŕ	0,	1	P

<u> 21 12440, 1. 8.;</u> XII 177, 11. 1.

Present to-Jule Transportation

Using presentic transportation in the production of toilet coup. Nacl. -zair. prom. 10, No. 3, 1953.

Monthly List of Aussian Accessions, Library of Congress, June 1953. Uncl.

STETSENKO, I.P.; SHTERN, R.M.

Producing glycerol without using a reagent. Masl.-zhir.prom.
20 no.1:15-19 '55. (MLRA 8:3)

1. Nevskiy mylovarennyy zavod.
(Glycerol)

STETSEHKO, I.P., inzh.; MIROHOV, B.A.

Screw press for toilet soap. Masl.-zhir. prom. 24 no.10:
39-41 '58. (MIBA 11:10)

1. Nevskiy mylovarennyy zavod.
(Power presses) (Soap)

STETSENDO, M., ingh.

Small universal feed mill. Tekh. v sel'khoz. 20 no.6:35-36 Je '60.

(MRA 13:10)

(Feed mills)

Fire-proof casing of combustion chambers in dryer furnaces of corn-processing plants. Muk.-elev. prom. 26 no.6:19-20 Je '60.

(MIRA 13:12)

1. Tekhnicheskoye upravleniye Ministerstva khleboprodukotv RSFSR.

(Furnaces) (Corn (Maize)--Drying)

STETSENKO, M., INZH.

Disk feeder for slow-flowing materials. Muk.-elev. prom. 26 no. 12:16-17 D '60. (MIRA 13:12)

1. Ministerstvo khleboproduktov RSFSR. (Feed mills)

STETSENKO, M., inzh

Stamp for labeling paper bags. Muk.-elev. prom. 27 no.7:13 J1 '61. (MIRA 14:7)

1. Teknnicheskoye upravleniye Ministerstva zagotovok RSFSR. (Marking devices)

C

STETSENKO, M.A.; PAL'MIN, B.A., kend.ekonom.nauk, otv.red.; ITSKOVSKIY, M.B., red.izd-va; GOR'KOVAYA, Z.P., tekhn.red.

[Combining farming branches on cotton-growing collective farms]
Sochetanie otraclei v khlopkoseiushchikh kolkhosakh. Tashkent,
Izd-vo Akad.nauk Uzb.SSR, 1959. 156 p. (MIRA 12:7)

(Uzbekistan--Gotton growing)

STETSENKO, M.D.

Effect of rectolinear impulses of rectified current on the central nervous system in dogs. Fiziol.zhur. [Ukr.] 1 no.2:30-37 Mr-Ap 155.

1. Institut fiziologii imeni akademika 0.0.Bogomol'tsya Akademii nauk URSR.

(ELECTRIC ANESTHESIA) (EI (NERVOUS SYSTEM)

(ELECTROPHYSIOLOGY)

USSR/Human and Animal Physiology - The Nervous System.

T

Abs Jour

: Ref Zhur Biol., No 3, 1959, 13150

Author

: Stetsenko, M.D.

Inst

Title

: Changes in the Temperature of the Brain with Application of Alternate and Direct Currents as Compared to the

Effect of Some Pharmacological Agents.

Orig Pub

: Fiziol. zh., 1957, 3, No 6, 91-101

Abstract

: When the brain cortex of rabbits was stimulated by means of electrodes forced into the frontal and occipital regions, three types of temperature changes were observed in the brain with alternate currents of 10, 40, and 100 impulses/second: cooling, heating, or cooling followed by heating. With the action of a current of 100 impulses/second in 70% of the experiments sleep was induced by electricity, and the condition was accompanied by an elevated temperature of the brain. This reaction

Card 1/2

USSR/Human and Animal Physiology - The Nervous System.

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Abs Jour : Ref Zhur Biol., No 3, 1959, 13150

explains the stimulation of the hypothalamic region. Thermal reactions of the brain rose with reduced frequency of the current and prolongation of each impulse. Direct current influenced the temperature of the brain to a lesser degree. With the action of phenamine parallel phase changes were noted in the temperature of the brain and the body. Chloral hydrate caused a lowering of the brain temperature, and the effect of morphine was varied in different experiments. It is suggested that a connection exists between stimulation and inhibition and the changes in the brain temperature, and that it can have a mosaic and phase character. -- K.S. Ratner

Card 2/2

- 94 -

KRUPSKIY, N.K.; ALEKSANDROVA, A.M.; STETSENKO, M.V.

Determination of chlorine ion in cloudy and colored soil extracts. Pochvovedenie no.2:109-113 F 162. (MTRA 15:3)

1. Ukrainskiy nauchno-issledovateliskiy institut pochvovedeniya. (Soils-Chlorine content)

STETSLAND, N.A.

133-10-23/26

AUTHOR: Yulin, S. I., and Stetsenko, N. A. Engineers.

The Influence of the Reduction Rate on Destruction of Carbide Lattice in the X12 and X126 Steels.
(Vliyaniye Stepeni Ukovki Na Razrusheniye Karbidnoy Setki v Stalyakh X12 i X124.)

PERIODICAL: Stal', 1957, No.10, pp. 948-950 (USSR).

ABSTRACT: During forging of ingots of X12 and X1241 steels of 300 and 500 kg in weight into rounds 40-180 mm and strip 60 x 300 x 180 mm, a network of evtectic carbides appeared. Causes of this phenomenon were investigated. It was found that the distribution of carbides in ingots of the above two steels along the radius of a crosssection of an ingot is independent from the weight of the ingot. In cast ingot metal the network of extectic carbides increases from the surface towards the centre. Cast structure of X12 steel has a coarser evtectic carbide network than that of X1241 steel (for ingots of the same weight). Hot mechanical working (forging) destroys the brittle network of eutectic carbides, but does not make the distribution of carbides in a cross-section more uniform. In the centre of forgings coarser grains with coarsely precipitated carbides on their boundaries are formed. Therefore, remains of Card 1/2the broken carbide network can be preserved there. An

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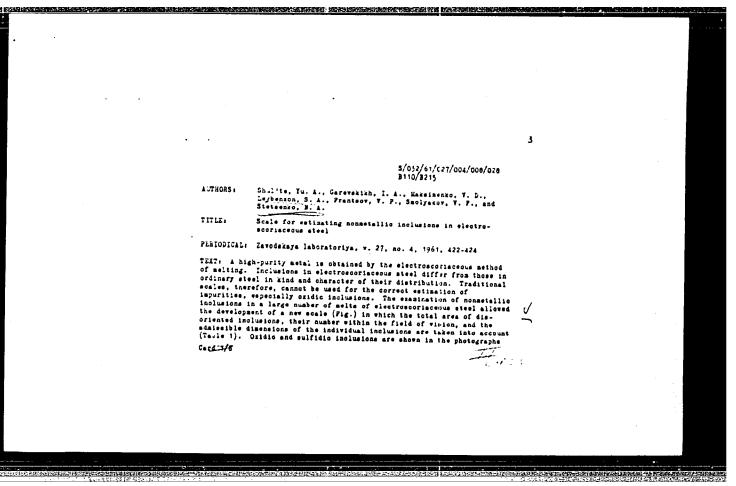
The Influence of the Reduction Rate on Destruction of Carbide (Cont.)

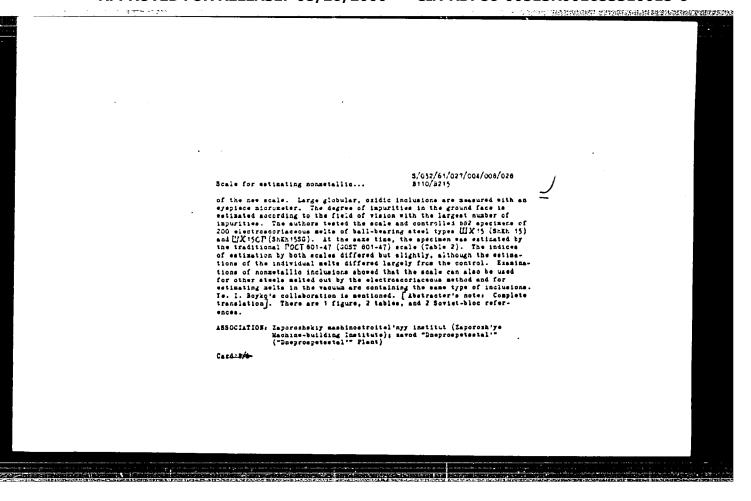
increase in the ingot diameter (and thus or weight), permits increasing the degree of reduction on obtaining forgings of the same diameter and thus to attain a higher degree of destruction of the network. There are 5 figures.

ASSOCIATION: Dneprospetsstal' Works. (Zavod Dneprospetsstal').

AVAILABLE: Library of Congress

Card 2/2





EST(m)/MP(z)/ESP(b)/EWA(d)/ESP(t) MJW/JD L 63975-85 ACCESSION NR: AP5014242 UR/0383/65/000/002/0024/0026 669.137.6 Zabaluyev, Yu. I.; Smolyakov, V. F.; Vul'fovich, M. S.; Kaganovskiy, G. Stetsenko, N. A.; Yemel'yanenko, Yu. G.; Medovar, B. I. Doctor of technical #4.55 sciences); Latash, Yu. V. (Candidate of technical sciences) TITLE: Improving the macrostructure of electroslag steels SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost, no. 2, 1965, 24-26 TOPIC TAGS: electroslag melting, steel 14.55 18 ABSTRACT: Crystallization bands (layers) -- regions which are more resistant to etching than the base metal--are observed in the macrostructure of ball bearing and structural steels melted by the electroslag method using ANF-6 flux. In the ingot, these layers reproduce the contour of the bottom of the metal bath, and in rolled products they appear as rings. These crystallization layers are caused by sharp changes in the rate at which the crystallization front advances due to disturbance of the thermal balance between the metal and slag baths. The authors studied the effect of substituting AN-291 flux for ANF-6. 12Kh2N4A, 18Kh2N4A, ShKh15, ShKh15SG Card 1/2

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ACCESSION NR: AP5014242

and 30KhGSNA steels were melted. The working current was reduced by 15-20% and rate of flux consumption was increased by 15-25% over that of ANF-6. The macrostructure of forged and rolled specimens (circular and square, 100-150 mm) was dense and uniform without traces of layered crystallization. Contamination by nonmetallic inclusions is about the same with both fluxes. The elimination of the crystallization layers when AN-291 flux is used is due to the higher electrical resistance of this flux which makes hotter smelting possible, increasing the heat content (enthalpy) and consequently the thermal inertia of the melting zone. This effect acts as a "choke" which smooths out fluctuations in electrical conditions and results in a more uniform ingot. Orig. art. has: 2 figures, 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

NO REF SOV: 002

OTHER: 000

NC

Card 2/2

STETSENKO, N.D.

Effect of weak impulses of rectified and constant currents on the nerve. Vop. fiziol. no.7:74-80 154. (MLRA 8:1)

DANILEKNKO, A.I.; STETSENKO, N.D.

Affect of radium gamma rays on the nerve-wuscle preparation.
Vopr.fiziol. no.9:169-173 *54. (MIRA 14:1)

1. Institut fiziologii im A.A. Bogomol'tsa Akademii nauk USSR.

(NERVE-MUSCLE PREPARATION, effect of radiation
on radium gamma rays)

(RADIUM, effects,
on nerve-musc. prep.)

DANILENKO, A.I.; STATSENKO, N.D.

Action of beta rays on a preparation of neuromuscular tissue as compared with the action of gamma rays. Yop. fiziol. no.10:163-168 (MERA 10:5)

1. Institut fiziologii im. A.A. Bogomol'tsa Akademii nauk USSR, Laboratoriya biofiziki.

(BETA RAYS.-PHYSIOLOGICAL EFFECT)

(GAMMA RAYS.-PHYSIOLOGICAL EFFECT)

STETSENKO, N.D.

Homparing the effect of rectangular impulses on rectified current and the effect of direct current on the extremities in man. Fisiol. zhur. (Ukr.) 1 no.4:40-47 Jl-Ag 155. (MLRA 9:11)

1. Institut fiziologii im. 0.0. Bogomol'tsys Akademii nauk URSR, laboratoriya vyshchoi nervovoi diyatel'nosti i laboratoriya biofiziki (ELECTRICITY, effects.

on arm, comparison of rectangular impulses of direct current & of eff. of constant current in man)
(ABM, physiology,

eff. of rectangular impulses of direct cirrent & of c constant current, comparison)

STETSENKO, N.D.

Comparing electroencephalograms made with application of electrodes to the skin of the head and those made with electrodes implanted in the brain. Piziol. zhur. [Ukr.] 1 no.6:3-11 N-D 155. (MINA 10:1)

1. Institut fiziologii imeni 0.0.Bogomol'tsya Akademii nauk URSR. laboratoriya biofiziki i laboratoriya vishchoi nervovoi diyal'nosti. (EIECTROENCEPHALOGRAPHY)