s/181/61/003/007/009/023

Investigation of adhesive binding of ... B102/B214

joined to the sample. The rupture with the given rate of 0.5 mm/sec is brought about by a magnetic mechanism. The fluctuations in tension are recorded by electric resistance tensiometers (5). The spectroscopic investigations of the samples were carried out with a spectrograph of the type NCK-14 (ISK-14) for which a special vacuum chamber was constructed. Luminescence was also investigated. The adhesive binding of the following systems was studied; semiconductor - metal, polymer - semiconductor, polymer - glass, and polymer - polymer. The investigations showed, inter alia, that the adhesion between indium and germanium substantially increases if the surface of the latter has previously been subjected to a glow discharge. The increase of adhesion may be explained as being due to the appearance of a large number of adhesion-active recombination centers, which is indicated by the decrease of the carrier lifetime experimentally observed. These results are in agreement with those of V. P. Smilga and B. V. Deryagin (DAN SSSR, 122, v. 6, 1049, 1958) who have shown that the field at the junction of the semiconductor and the metal increases rapidly with an increase in the number of ionized centers at the surface of the semiconductor (before contact). The adhesive power is given by $F=E^2/8\pi$. The surface recombination which depends essentially on adhesion, is

Card 2/5

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25687 s/181/61/003/007/009/023 B102/B214

Investigation of adhesive binding of ...

directly proportional to the number of surface states which, in their turn, are related to the number of ionized centers on the free surface of the semiconductor. In the cases investigated, the establishment of an adhesive binding between polymer and glass is due to the appearance of a hydrogen bond between the hydroxyls of the glass and the functional groups of the polymer. On breaking the contact the glass surface is found to be protonized while the polymer surface emits electrons. From this, it may be concluded that the total statistical effect that accompanies the destruction of the hydrogen bonds acting in the interfacial plane gives rise predominantly to positive charges on the glass, caused by protons of the broken bonds. The establishment of an adhesive binding between two polymers is introduced by electrostatic processes. Thereupon, diffusion processes take place on the interface, as was shown by luminescence studies. The interface is blurred, and on separating the two polymers no further electrical phenomena appear. T. A. Sokolova and L. A. Ovsyannikova are mentioned. There are 5 figures, 4 tables, and 15 references: 12 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR Moskva (Institute of Physical Chemistry, AS USSR, Moscow)

Card 3/5

1,4546

s/020/62/147/006/031/034 B144/B186

017770

AUTHORS:

Sokolina, G. A., Krotova, N. A., Khrustalev, Yu. A.

TITLE:

Study of the properties of a polymer-semiconductor interface

Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1409-1412

TEXT: The adsorption process occurring at polymer-semiconductor interfaces was investigated by measuring the surface conductivity in the "field effect". The sample used was n-type germanium with a resistivity of 40 ohm cm and a diffusion length of 2.5 mm etched in a H202-alkali mixture

and coated with films of linear vinyl-type polymers or methylmethacrylatemethacrylic acid copolymers. The field applied had a strength of 106 v/cm. First, the surface conductivity was measured in a sample of uncoated Ge: here the Ad-versus-time curve showed a sharp rise when the field was applied, followed quickly by the minimum and returning then to the initial value. On Ge, two surface states were observed: the "fast" states at the Ge oxide - Ge interface and the "slow" states at the external face of the oxide or in the oxide. These slow surface states characterizing the adsorption and adhesion processes were studied by applying a constant Card 1/2

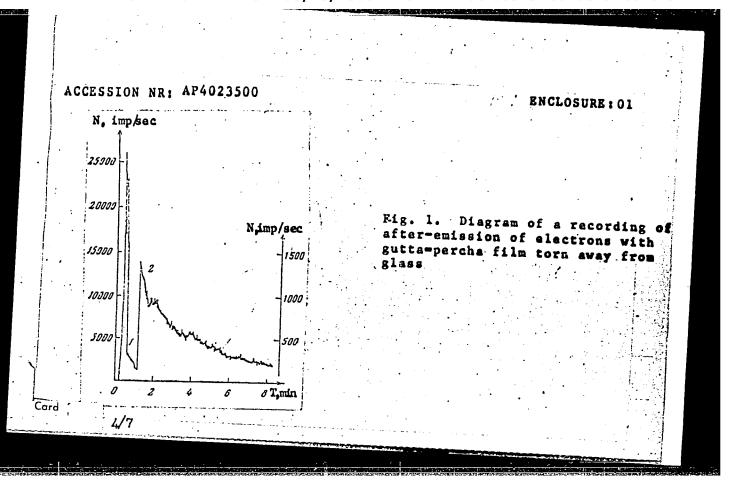
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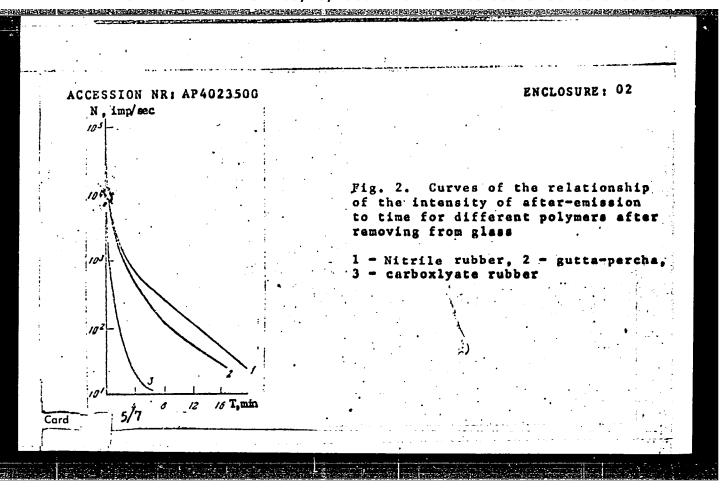
AUTHORS: Krotova, N.A., Stefanovich, N.N. G.A.; Stefanovich, N.N. TITLE: Investigation of various types of adhesion bonds SOURCE: Kolloidny*y zhurnal, V. 26, no. 2, 1964, 207-214 SOURCE: Kolloidny*y zhurnal, V. 26, no. 2, 1964, 207-214 TOPIC TAGS: adhesion mechanism, adhesion bond, interface erosion, to the mosorption, donor acceptor interaction, functional group, electron chemosorption, donor acceptor interaction, functional group, electron chemosorption, donor acceptor interaction, surface modification, series and emission, semiconductor surface conductivity, surface modification, high speed semiconductor, germanium of adhesion, several emission, high speed semiconductor, germanium of adhesion, setigated. ABSTRACT: In order to determine the mechanism of adhesion, setigated. ABSTRACT: In order to determine the mechanism of adhesion, several phenomena at the polymer-solid substrate interface were investigated. ABSTRACT: In order to determine the mechanism of adhesion, and from phenomena at the polymer-solid substrate interface were investigated.	"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651920020-5
ACCESSION NR: AP4023500 AUTHORS: Krotova, N.A.; Morozova, L.P.; Polyakov, A.M., G.A.; Stefanovich, N.N. G.A.; Stefanovich, N.N. TITLE: Investigation of various types of adhesion bonds SOURCE: Kolloidny*y zhurnal, V. 26, no. 2, 1964, 207-214 TOPIC TAGS: adhesion mechanism, adhesion bond, interface erosion, themosorption, donor acceptor interaction, functional group, electron chemosorption, donor acceptor interaction, surface modification, semiconductor surface conductivity, surface modification, high speed semiconductor, germanium at in order to determine the mechanism of adhesion; several entire face were investigated. ABSTRACT: In order to determine the mechanism of which the inphenomena at the polymer-solid substrate interface were investigated. ABSTRACT: at the polymer-solid substrate interface which the subphenomena at the polymer-solid formation of a new phase on the subphenomena bonds resulting from diffusion processes in which the subphenomena honds resulting from diffusion processes in which the subphenomena honds resulting from diffusion processes in which the subphenomena honds resulting from diffusion of a new phase on the subphenomena honds resulting from a new phase on the sub-	
electric layer adhesion of postablished that adhesion of postablished the postablished that adhe	AUTHORS: Krotova, N.A.; Morozova, L.P.; Polyakov, A.M., G.A.; Stefanovich, N.N. G.A.; Stefanovich, N.N. TITLE: Investigation of various types of adhesion bonds SOURCE: Kolloidny*y zhurnal, V. 26, no. 2, 1964, 207-214 SOURCE: Kolloidny*y zhurnal, V. 26, no. 1964, 207-214 TOPIC TAGS: adhesion mechanism, adhesion bond, interface erosion, chemosorption, donor acceptor interaction, functional group, electron emission, semiconductor surface conductivity, surface modification, high speed semiconductor, germanium cation, high speed semiconductor, germanium ABSTRACT: In order to determine the mechanism of adhesion, stigated. Albertace bonds resulting from diffusion processes in which the inphenomena at the polymer-solid substrate interface were investigated. Adhesive bonds resulting from diffusion processes in which the substrate is eroded, from the formation of a new phase on the substrate by the polymerization of organometallic compounds, and from terface is eroded, from the formation to the formation of a double strate by the polymerization of organometallic compounds, and chemosorption on the interface leading to the formation been strate by the polymerization of polymers is largely due to chemical electric layer are discussed. By IR spectroscopy it has been chemosorptic layer are discussed. By IR spectroscopy due to chemical established that adhesion of polymers is largely due to chemical

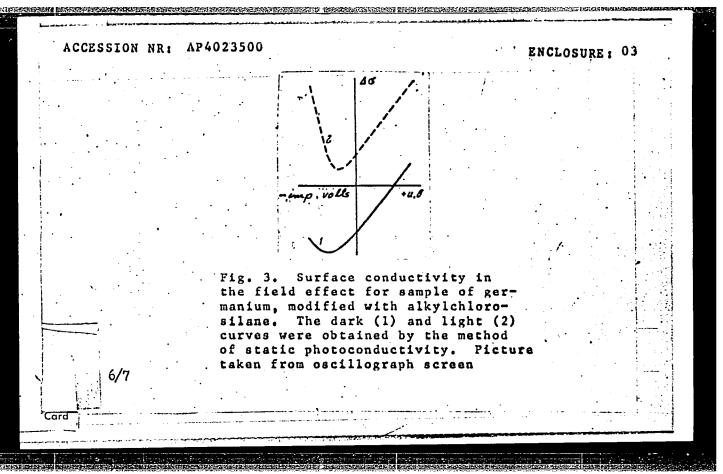
donor-acceptor interactions. The adhesion can therefore be controlled by rational selection of the function groups of the adhesive and substrate on the basis of their donor-acceptor properties. A number of functional polymer groups were arranged in series according to their chair chair chair chair and the their chair chai ing to their ability to impart a positive charge to the surface on tearing the film from the substrate (i.e., decrease in their donor properties) A method was worked out for determining the effect of tearing the illm from the substrate (i.e., decrease in their donor properties). A method was worked out for determining the effect of the functional groups of the polymer by measuring the intensity of the functional groups of the breakdown of the adhesion bond electron emission formed by the breakdown of the adhesion between the polymer and the glass substrate (figs. 1 and 2). There between the polymer and the glass substrate (figs. 1) are changes in the characteristics of a semiconductor upon formation. of adhesion bonds between it and the polymer; the part played by the functional groups of the polymer responsible for the degree of the functional groups of the polymer responsible for the degree of charge of the surface was investigated. The surface conductivity in the field effect of germanium crystals modified with alkylin the field effect of ies of the semiconductor surface.

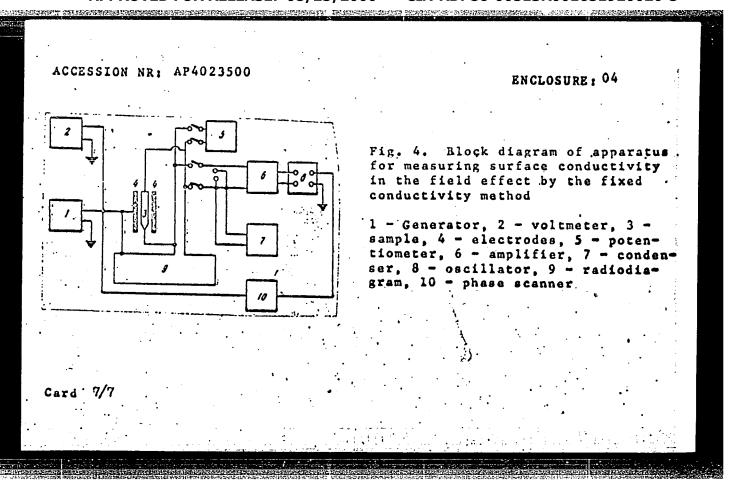
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ACCESSION NR: AT5020453	44,55	UR/000	0/64/000/000/00 44, ^{SS}	087/0104
AUTHOR: Krotova, N. A.; Soko	ېې Mina G. A.: Ki	hmistalev. Yii	μισο . A.: Agranenko	N. P. 20
Lomova, N. F.; Khomutov, A. M	25	in do talet,		0
44,55	, , , ,			131
FITLE: Change in the surface	state of germa	<u>anium</u> during	the formation of	of an adhesion
bond with a polymer		27	•	
SOURCE: Hezhvuzovskaya nauch	no-takhniahock	ava konferent	siva no fizike	noluprovod-
nikov (poverkhnostnyye i kont				
contaktnyye yavleniya v polup	rovodnikakh (St	urface and co	ntact phenomena	in semicon-
ductors). Tomsk, Izd-vo Toms			•	
-	44,55	44,55,21		
TOPIC TAGS: polymer, <u>semicor</u>	ductor research	<u>h, protective</u>	coating, surfa	ace property,
crystal surface, lacquer/ LVS	-31 lacquer, M	BK-1 lacquer		
ABSTRACT: The authors study	the offeet which	ch the functi	onal groups in	a polymer
have on the surface state of	germanium in co	onnection wit	h the use of or	ganic polymer
naterials for protecting semi	conductor devi	ces from atmo	spheric action	The field
effect method was used for ex	perimentally s	tudying the s	irface conducti	vity with the
application of a constant fie	ld. The slow	changes in co	nductivity with	time were
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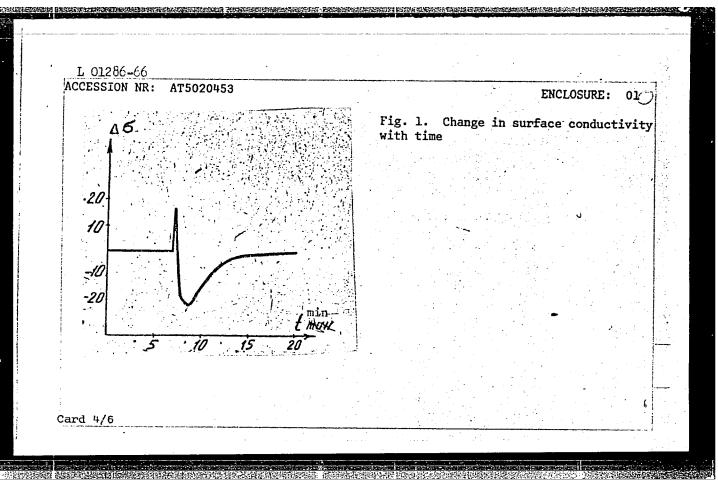
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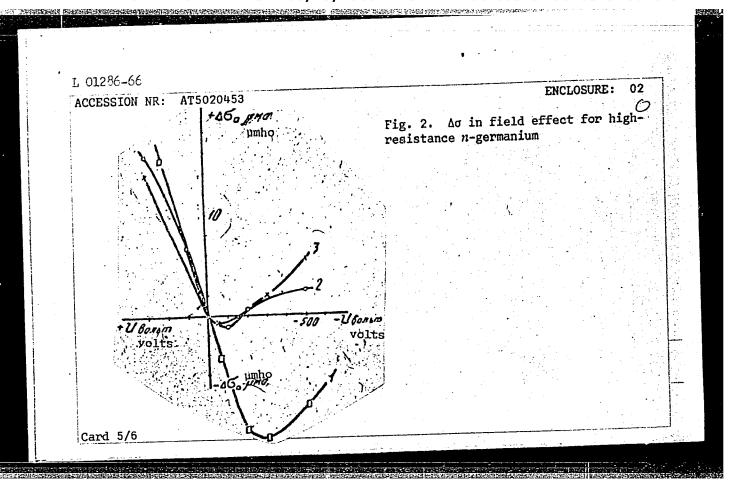
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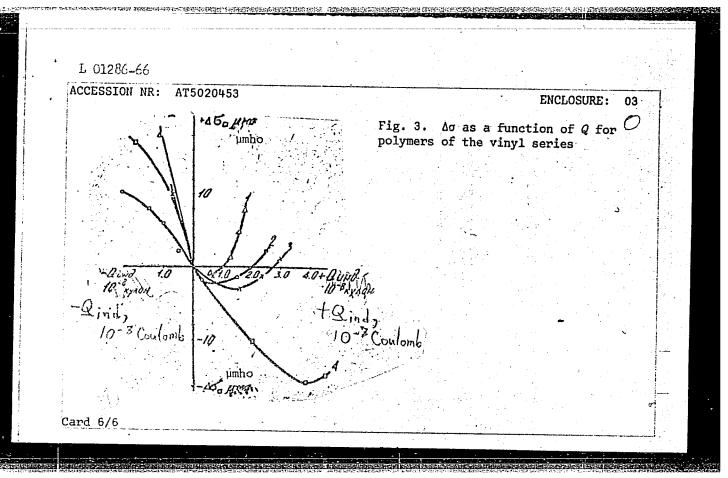
recorded. The material studied was n-germanium with a resistivity of 40 $\Omega \cdot$ cm and a diffusion length of 2.5 mm. The specimen was a plate with dimensions of 20 \times 5 \times 5 mm cut from a single crystal of germanium parallel to plane (111). Ohmic contacts were fused to the ends of the specimen. The sample was etched in a peroxide-alkali mixture. The surface conductivity is shown as a function of time in fig. 1 of the Enclosure. Typical curves for conductivity in the field effect for high resistance n-germanium are given in fig. 2 of the Enclosure. These curves may be given as $\Delta \sigma$ = f(U) or as $\Delta \sigma = \phi(Q)$, if Q is the induced charge of a condenser determined from the capacity. Here $\Delta \sigma$ indicates the change in surface conductivity, and U gives the potential. Polymers of the vinyl series were studied with regard to the effect of the nature of functional groups and their concentration in the chain of a copolymer on the shape of $\Delta \sigma = \phi(Q)$ curves plotted from measurements in vacuum. The results are shown in fig. 3 of the Enclosure. Curves are also given for copolymers of methylmethacrylate with methacrylic acid, for a gelatin-germanium interface (where the gelatin has functional radicals NH₂, OH and COOH) and for polyhydroxyethylene--a polymer which has no functional polar radicals and which has oxygen bound by single bonds in the chains. A comparison of the curves indicates that functional radicals change the position of $\Delta\sigma_{\min}$ noticeably, while polymers without strongly polar groups have little effect on this parameter. Compositions of polymers were studied

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ACCESSION NR: AT50	20453	•				131
along with Andividua	al nolume	ng. It was fo	ound that two	o industri	۱ al lacquers	s, MBK-1
and LVS-31 Voffer mo	ore prote	ction against	moisture tha	an do the	individual	polymers.
However, the lacque	r films a	re much thick	er than the	individual	polymer f	ilms. It
is shown that LVS-31	L has a f	ew advantages	over MBK-1	as a prote	ctive film	for semi-
conductor devices.	Orig. ar	t. has: 13 r	igures, b tai	pres.	•	
ASSOCIATION: none				ζ.		
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L 17412-66

ACCESSION NR: AP5021793

SOURCE CODE: UR/0340/65/000/008/0016/0016

AUTHOR: Sokolin, I. (Chauffeur)

ORG: none

12

TITLE: Spring reinforcement

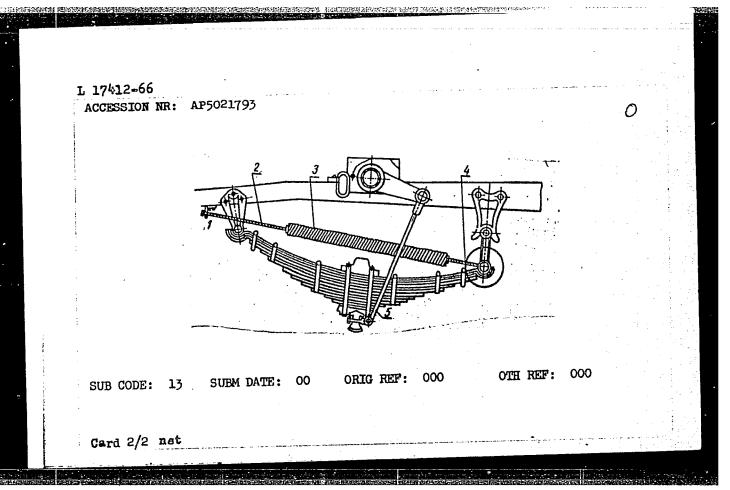
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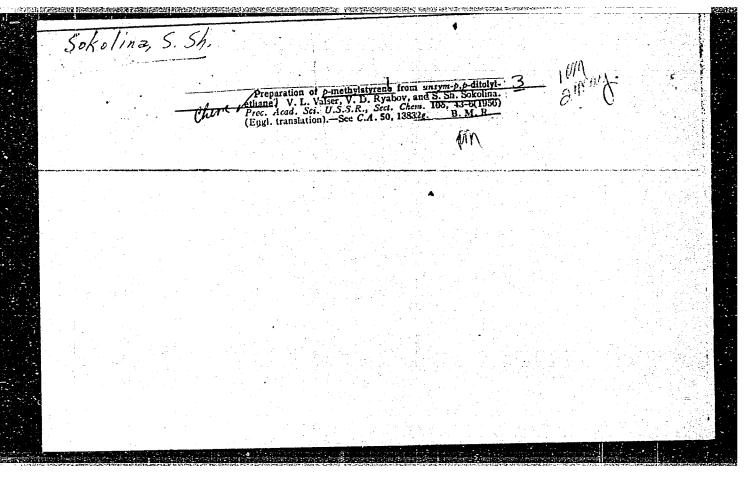
SOURCE: Sel'skiy mekhanizator, no. 8, 1965, 16

TOPIC TAGS: spring, automotive industry

ABSTRACT: The author states that an attachment developed by workers at an automobile shop and shown on the accompanying figure doubles the life of a spring and eliminates the need for a shock absorber. The attachment consists of the following: a corner plate (1) 50x50x1000 mm; a tightening screw (2) 16 mm in diameter; a spring (3) from the "kheder" SK-3 combine; a special screw (4) with an ear whose diameter equals that of the spring pin - 25 km; and the extended rod (5) of the rear blade of the spring, 140 mm in length. Orig. art. has: 1 figure.

Card 1/2





CIA-RDP86-00513R001651920020-5 "APPROVED FOR RELEASE: 08/25/2000

Sekelina, 5.5h.

USSR/ Chemistry

Card 1/2

Pub. 22 - 26/54

Authors

* Vayser, V. L.; Ryabov, V. D.; Sokolina, S. Sh.

Title

Derivation of p-methylstyrene from asymmetrical p,p-ditolylethane

Periodical : Dok. AN SSSR 106/2, 271-274, Jan 11, 1956

Abstract

Experiments were conducted for the purpose of obtaining p-methylstyrene from asymmetrical p,p-ditolylethane and to investigate some catalysts under conditions of cracking. The basic constants (boiling point, density and viscosity) of p,p-ditolylethane, after several vacuum distillations, were established. The results obtained during the application of a synthetic aluminum silicate catalyst $(Al_2O_3:SiO_2=1:1)$ are listed. The effect of temperature on the cracking characteristics is analyzed. Seven references: 2 USSR, 1 Germ., 3 USA and 1 Canad. (1923-1954). Table; graphs; drawing.

Institution: Hoscow Petroleum Institute im. I. M. Gubkin

Presented by: Academician A. V. Topchiyev, July 11, 1955

24.5600

37867 \$/056/62/042/005/011/050 B104/B102

AUTHORS:

Sevast'yanov, B. K., Sokolina, V. A.

TITLE:

The magnetic moment of superconducting films

PERÌODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 5, 1962, 1212-1218

TEXT: The temperature dependence of the magnetic moment M_{\perp} perpendicular to the surface of the superconducting layer was determined in tin films of $(3\cdot3)\cdot10^{-6}$ and $(5\cdot5)\cdot10^{-6}$ cm² area and $10^{-5}-10^{-6}$ cm thickness. M_{\perp} was measured using a magnetic torsion balance with electrodynamic compensation system. The films were condensed in vacuo ($<2\cdot10^{-6}$ mm Hg) onto polished quartz plates cooled by liquid nitrogen. The quartz base was covered with an electrolytic net as used for making preparations in electron microscopy. M_{\perp} depends not only on the film thickness but also on its other dimensions. M_{\perp} increases with increasing $x = \pi dD/16 \delta^2$, and reaches the value M_{\perp}^0 of a massive superconducting film at about x = 30. d is the film thickness, D the diameter of the film covered area, δ the penetration depth of the magnetic field. The experimental results are well described card 1/2

S/056/62/042/005/011/050 B104/B102

The magnetic moment of ...

by a formula developed by G. F. Zharkov (ZhETF, present issue, p. 1397). This formula was obtained for local interaction between the field and the superconduction current. Near the critical point, tin is a London-type superconductor. There are 7 figures.

ASSOCIATION: Institut kristallografii Akademii nauk SSSR (Institute of

Crystallography of the Academy of Sciences USSR). Moskovskiy gosudarstvennyy universitet (Moscow State

University)

SUBMITTED: January 3, 1962

Card 2/2

L 17716-63 EWP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AP3004069 S/0076/63/037/007/1594/1597

AUTHORS: Likhtenshteyn, G. I.; Sokolina, Ye. A.

TITLE: Critical effects during the oxidation of hydrocarbons in the presence of some antioxidants.

SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 7, 1963, 1594-1597

TOPIC TAGS: diphenylamine, butylphenol, naphtol, cetane, polypropylene, methyldodecene, rubber

ABSTRACT: The critical concentrations of diphenylamine, tert. butylphenol and Alpha-naphtol in cetane polypropylene, 4-methyldodecene-2 and rubber in a temperature interval of 130 to 170C has been determined. It was established that the critical concentrations found experimentally are two to three times smaller, the critical concentrations found experimentally greater than the ones however, the temperature coefficients are considerably greater than the ones calculated theoretically which assumes the participation of inhibitor only in the chain termination reactions. A supposition is made that the general plan of the inhibitor oxidation cannot be applied with small concentrations of antioxidant. Inhibitor oxidation cannot be applied with small concentrations of antioxidant. The critical effects need a further theoretical and practical study. The authors express their gratitude to Prof. M. B. Neyman for his advice and help in this work. Orig. art. has: 1 table, 2 figures and 10 formulas.

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Co	ard 2/2	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;							
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VLASOV, B.V., doktor ekonom.nauk; SOKOLINA, Ye.D.

Characteristics of the specialization of various productions.

Mashinostroitel' no.3:38-40 Mr '64.

(MIRA 17:4)

SOKOLINA, Yelena Dmitriyevna; KOGAN, Yello, real

[From a multiple_line production plant to a specialized one] Ot universal'nogo zavoda - k spetializirovennomu:

Moskva, Izd-vo "Zanaie," 1965. 31 p. (Novoe v zhizni, nauke, tekhnike. III Seriia: Ekonomika, no.4)

(MIRA 18:3)

LEVITSKIY, Yu.V., inzh.; SOKOLINSKAYA, I.G., inzh.; TSEYTLIN, M.A., inzh.

Ultrasonic method of testing welded joints in steem lines of pearlitic steels. Elek.sta.29 no.3:83-84 Mr '58. (WIRA 11:5)

(Ultrasonic waves--Industrial applications)

(Welding--Testing)

S/032/62/028/004/008/026 B101/B113

AUTHOR:

Sokolinskaya, I. G.

TITLE:

Accuracy of the magnetographic method for pipe weld testing

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 4, 1962, 462-464

TEXT: The author studied the dependability of the magnetographic method for detecting welding defects in pipes (4.5 - 6 mm wall thickness and 100-150 mm diameter, or 8-10 mm wall thickness and 300-500 mm diameter). Magnetization was conducted (a) with a solenoid (30-70 turns, capacitance of the capacitor 600-1200 µf, battery voltage 290-330 v); (b) with an electromagnet (500 turns, at 10 a, a magnetic field of about 1500 qe). A comparison of this test with a test of the specimens on an MM4-30 (IMCh-30) tension tester yielded the following results: (1) There is a 65-70% probability of finding a 0.5 mm deep nonfusion with 4-6 mm wall thickness; (2) with 8-10 mm wall thickness, the probability of finding a 1 mm deep nonfusion drops to zero with a solenoid and is 20% with an electromagnet; (3) no distinct relationship was established between the

Card 1/2

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Accuracy of the ...

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45

shape of oscilloscopic peaks and the shape of defects. On the basis of these results, it is recommended to control pipes with wall thicknesses of more than 6-7 mm by the more sensitive ultrasonic method. There are 3 figures.

ASSOCIATION: Upravleniye Metallurgkhimmashstroy Donetskogo sovnarkhoza (Administration of the Metallurgkhimmeshstroy of the Donetskiy sovnarkhoz)

Card 2/2

SHVARTSER, A. Ya.; SOKOLINSKAYA, I. G. Techniques of ultrasonic testing of the hard facing of bore

bit rollers. Avtom. svar. 16 no.3:84-86 Mr 163. (MIRA 16:4)

等的,但是是我们的,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们也不是我们的,我们就是我们的一个人,不是一个人, 第一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们的一个

1. Donetskiy politekhnicheskiy institut.

(Hard facing—Testing)
(Ultrasonic testing)

CIA-RDP86-00513R001651920020-5" APPROVED FOR RELEASE: 08/25/2000

L 27648-66 EWP(c)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/ETC(m)-6/EWA(d)/EWP(1)/EWP(v)/EWP(t)/
ACC NR: AP6018520 ETI IJP(c) JD SOURCE CODE: UR/0381/65/000/006/0035/0040
AUTHOR: Bogdanov, V. A.; Krasyuk, S. V.; Medvedev, V. S.; Sokolinskaya, I. G.

ORG: <u>Base Inotope Laboratory</u>, <u>Donets Sovnarkhoz</u> (Bazovaya izotopnaya laboratoriya Donetskogo sovnarkhoza)

TITLE: Automatic device for the hardness inspection of cast-iron nipples

SOURCE: Defektoskopiya, no. 6, 1965, 35-40

TOPIC TAGS: cast iron, hardness, pig iron, magnetic property, magnetization, nondestructive test/KCL-36 pig iron

ABSTRACT: A study of the relationship of magnetic properties of cast iron nipples made of pig iron KCh-36 to hardness is described. A description of the design and electrical circuit of the device is presented.

Cast nipples made of pig iron KCh-36, made by the Lugan Foundry and Machinery Plant, for connecting radiator sections of a heating system, are usually obtained with differing hardness (Bhn 100-500). During subsequent machining, considerable wear, putting the cutting instrument out of action, and sometimes breakdown of the lathes occur. Experience of the plant has shown that a nipple hardness over Bhn 170-180 should not be machined. However there are no methods which would permit the complete processing of the great quantity (50,000 pieces/day).

Card 1/2

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	magnet:	he mosi ization azneton	t suitab n since : netry ia	hown that the and hardness le character it is average the most suas 6 figures	ristic for ged over the	testing ni	pple ha	rdness :	is residu	e). _
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SOKOLINA AJA, L.O.

SOKOLINSKAYA, L.B., inzhener, redaktor; OTSEP, S.A., kandidat tekhnicheskikh nauk, starshiy nauchnyy sotrudnik.

[Modern methods of manufacturing air conductors for ventilation systems]
Sovremennye metody izgotovleniis ventiliatsionnykh vozdukhovodov.
[Doklad podgotovlen st. nauch. sotrudnikom TsIINS S.A.Otsepom] Moskva,
Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 37 p. (MLRA 7:6)

1. Moscow. TSentral'nyy institut informatsii po stroitel'stwu (for Otsep). (Ventilation)

SOKOLINSKAYA, L. B.

SOKOLINSKAYA, L.B., inzhener, nauchnyy redaktor; GUSEV, Yu.L., redaktor izdatelistva; TOKER, A.M., tekhnicheskiy redaktor.

[Lowering the cost of water pipe and sewer] Smishenie stoimosti vodoprovodnykh i kanalisatsionnykh soorushenii. [Nauch. redaktor L.B. Sokolinskaia] Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 54 p. (MLRA 7:8)

1. Moscow. TSentral'nyy institut informatsii po stroitel'stvu. (Water pipes) (Sewerage)

SOKOLINSKAYA, L.B., inzhener, nauchnyy redaktor; GUSEV, Yu.L., redaktor izdatel stva; TOKER, A.M., tekhnicheskiy redaktor.

[New research and projected solutions in the realm of water supply]
Novye issledovaniia i proektnye resheniia v oblasti vodosnabsheniia.
Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954.
46 p. (MIRA 7:9)

1. Moscow. TSentral'nyy institut informatsii po stroitel'stvu. (Water--Purification) (Water-supply engineering)

OTSEP, S.A., kandidat tekhnicheskikh nauk; SOKOLINSKAYA, L.B., inzhener, nauchnyy redaktor; UROD, V.Ya., redaktor izdatel stva; VOLKOV, V.S., tekhnicheskiy redaktor.

[Machine tools, devices, and parts used in sanitary engineering]
Stanki, prisposoblenia i detali dlia sanitarno-tekhnicheskikh
rabot. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1955. 36 p.
(Ratsionalizatorskie i izobretatel'skie predlozhenia v stroitel'
stve, no.114).
(MIRA 10:8)

1. TSentral'nyy institut informatsii po stroitel'stvn (for Otsep). (Plumbing)

SOKOLINSKAYA, L.B., inzhener, redaktor; UDOD, V.Ya., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Collection of suggestions by efficiency experts on the manufacture of reinforced concrete products and units] Sbornik ratsionalizatorskikh predlozhenii po izgotovleniiu zhelezobetonnykh izdelii i konstruktsii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1955. 142 p. (MIRA 8:6)

1. Moscow. TSentral'nyy institut informatsii po stroitel'stvu. (Reinforced concrete construction)

KONYUSHOV, A.M., starshiy nauchnyy sotrudnik, kandidat tekhnicheskikh nauk; PAVIOVA, D.A., nauchnyy sotrudnik; SOKOLINSKAYA, L.B., inzhener, nauchnyy redaktor; MUNITS, A.P., redaktor izdatel stva; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Laying pipe lines without trenches] Bestransheinaia ukladka truboprovodov. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 57 p. (MLRA 10:1)

KONYUSHKOV, A.M., kandidat tekhnicheskikh nauk, starshiy nauchnyy sotrudnik; SOKOLINSKAYA, L.B., inzhener, redaktor; MUNITS, A.P., redaktor izdatel stva; GUSEVA, S.S., tekhnicheskiy redaktor

的数据,这种是一种的一种,这种是一种的一种,我们也是一种的一种,我们也是一种的一种,我们也是一种的一种的一种,我们也是一种的一种的一种,我们也可以不是一个一个一

[Equipment used in western Europe to purify waste water] Scoruzheniia dlia ochistki stochnykh vod v stranakh zapadnoi Evropy. Moskva. Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 80 p. (MIRA 9:9)

- 1. Moscow. TSentral'nyy institut informatsii po stroitel'stvu.
- 2. TSentral'nyy institut informatsii po stroitel'stvu (for Konyushkin) (Europe, Western-Sewage--Purification)

KONYUSHKOV, A.M., kandidat tekhnicheskikh mauk; SOKOLINSKAYA, L.B., inzhener, redakter; GOLUBENKOVA, L.A., redakter; TOKER, A.M., tekhnicheskiy redakter; GUSEVA, S.S., tekhnicheskiy redakter.

[Water supply for cities and tewns in foreign countries] Vedesmabshenie naselennykh punktev v zarubeznykh stranakh. Moskva, Gos.izd-ve lit-ry pe streit. i arkhitekture, 1956. 87 p. (MIRA 9:6)

1. Moscow. Tsentral'nyy institut informatsii pe streitel'stwu. 2. Starshiy mauchnyy setrudnik TsIINS (fer Kenyushkov).

(Water supply)

15.2140 78212 SOV/80-33-3-13/47

AUThomi: Shre, macre, Yu. G., Wareling, L. M., Sokelinskaya,

O. T.

TITLE: Study of the drystallization of Boron-Free,

Strontium-Culcium Glases

PERIODICAL: Zhurnal prikladnov knimii, 1960, Vol 33, Nr 3,

pp 582-591 (USSR)

ABSTRACT: Frits and glazes of the above type, all without

magnesium, were studied in order to determine the

effect of varying quantities of Sr and Ca on their crystallization. Chemical compositions of the frits used are given by Table 1. It was determined that the ability of the frits and of the glazes made from them to crystallize is least at SrO and CaO concentrations corresponding to the minimum of the melting temperature on Eskola's diagram of

solid solutions of Sr and Ca metasilicates (Fig. 2).

Card 1/8 Also, only glazes made from frits 53 and 54 had

Study of the Crystallization of Boron-Free, Strontium-Calcium Glazes 78212 SOV/80-33-3-13/47

normal luster, and these glazes crystallized less than the others. The existence of these minima is probably related to the greatest degree of imperfection of the structurally, rearranging lattice and, possibly, the structure of the solid solution on replacement of the Sr by Ca. A continuous series of solid solutions is formed in the crystallized frits, with an almost linear increase of both indices of refraction (Fig. 1), decrease of specific gravity (Fig. 5), interplanar spacing (Fig. 4), and lattice parameters (Fig. 3), as the Ca content in the mixed crystal increases. The interplanar spacing values of the sample "M" (see Figs. 2 and 4) deviate somewhat from the rule, a fact which should be further investigated. X-ray analysis of the powdered, crystallized frits showed the closeness of all the crystals to the hexagonal system and their complete miscibility in the solid phase. The system may be considered isodimorphic. Shmeleva, N. A., and Kondrat'yeva, V. V., took part in the work. Frank-Kamenetskiy, V. A., is thanked for his advice.

Card 2/8

Study of the Crystallization of Boron-Free, Strontium-Calcium Glazes

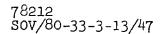
78212 sov/80-33-3-13/47

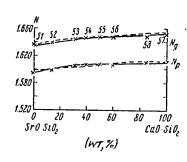
Table 1. Chemical composition of investigated frits (wt %). (A) Frit Nr; (B) SrO: CaO (parts by wt)

Α	В	SIOz	мБ Ф	Sro .	CaO	к э о	Na ₂ O
51 52 53 54 55 56 57	1.00 : 0 7.45 : 1 2.78 : 1 1.85 : 1 1.23 : 1 0.81 : 1 0.00 : 1	57.7 58.5 60.0 60.7 61.5 62.1 64.5	7.40 7.70 7.85 7.95 8.05 8.14 8.42	23.6 19.50 14.80 12.50 10.10 7.70	2.60 5.32 6.75 8.17 9.70 14.3	3.92 4.0 4.1 4.15 4.2 4.24 4.40	7.40 7.64 7.83 7.93 8.00 8.10 8.40

Card 3/8

Study of the Crystallization of Boron-Free, Strontium-Calcium Glazes





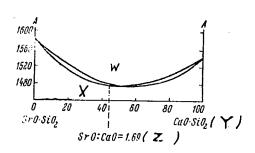


Fig. 1. Indices of refraction N in system $Sr0.Si0_2$ - $Ca0.Si0_2$. Numbers on curves are frit numbers. Dotted lines are Eskola's data, solid lines the present authors'. Fig. 2. Eskola's diagram for system $Sr0.Si0_2$ - $Ca0.Si0_2$ (A) Temperature (O C); (W) melt; (X) mixed crystals; (Y) wt %; (Z) by wt.

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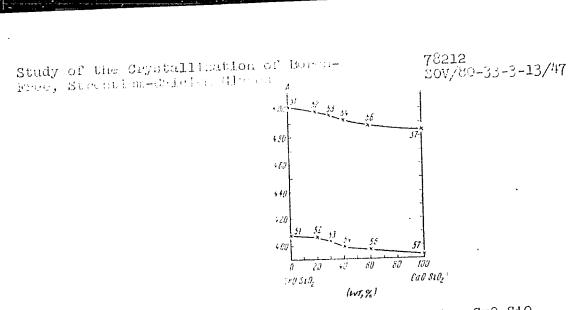


Fig. 3. Lattice parameters in system Sr0.Si0_2 - Ca0.Si0_2 . (A) Lattice parameters in Angstroms. Numbers on curves and frit numbers.

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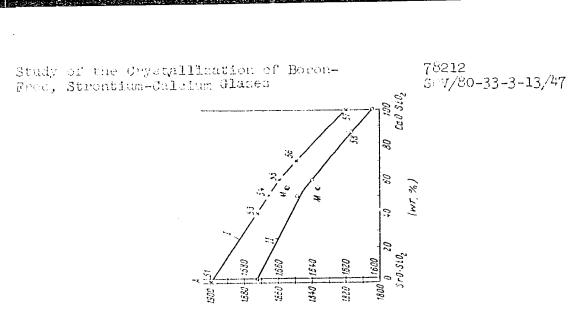


Fig. 4. Interplanar spacing in system $Sr0 \cdot Si0_2 = Ca0 \cdot Si0_2$ for two most intense lines. (A) Interplanar spacing d/n in Angstroms. Numbers on curves are frit numbers. Note: "M" is with Sr0 : Ca0 = 1.69 by wt (see Fig. 2).

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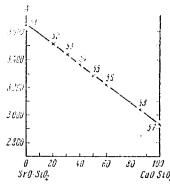


Fig. 5. Specific gravity in system $Sr0 \cdot Si0_2$ - $Ca0 \cdot Si0_2$. (A) Specific gravity (g/cm³); B. $Ca0 \cdot Si0_2$ content in system (wt %)

There are 4 tables; 5 figures; and 13 references, 3 U.S., 2 U.K., 1 Danish, 7 Soviet. The U.S. and U.K. references are: P. Eskola, Am J. Sci., 4,

Card 7/8

Study of the Crystallization of Boron-Free, Strontlum-Calcium Glazes

78212 SOV/80-33-3-13/47

23, 331 (1921); E. T. Carlson, L. S. Wels, J. Res. N. Bur. Stnd., 51, 2, 73 (1953); A. W. Hull, W. P. Davey, Phys. Rev., 17, 549 (1921); R. W. Nurse, J. Appl. Chem., 2, 244 (1952); F. Booth, H. Breneu, Brit. Pat., 242996 (1924).

SUBMITTED:

May 15, 1959

Card 8/8

KASSIL', G.N.; MATLINA, E.A.; SOKOLINSKAYA, R.A.

Dynamic studies on adrenalielike substances and on the biological activity of the blood in certain forms of diencephalic pathology.

Biul.eksp.biol.i med. 48 no.12:31-36 D 59. (MIRA 13:5)

1. Gruppa chlena-korrespondenta AN SSSR N.I. Grashchenkova pri
Otdelenii biologicheskikh nauk AN SSSR na baze kliniki nervnykh
bolezney I Moskovskogo meditsinskogo instituta. Predstavlena
bolezney I Moskovskogo meditsinskogo instituta. Predstavlena
deystvitel'nym chlenom AMN SSSR N.I. Grashchenkovym.

(SYMPATHOMIMETICS physiol.)

(DIENCEPHALON physiol.)

sov/20-126-2-61/64 Kassil', G. N., Matlina, E. A., Sokolinskaya, R. A. 17(4), 17(12) AUTHORS:

Adrenaline-like Substances and the Biological Activity of Blood in the Case of Cold Essay Under Normal Conditions and TITLE: Those of Diencephalic Pathology (Adrenalinopodobnyye veshchestva

i biologicheskaya aktivnost' krovi pri kholodovoy probe v

usloviyakh normy i dientsefal'noy patologii)

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2, pp 446-449 PERIODICAL: (USSR)

The state of the vegetative nervous system is to a certain ABSTRACT:

extent characterized by the different forms of the adrenalinelike substances. On the other hand it is impossible to gain by only one determination of the chemical composition and the biological properties of blood a conception concerning the "homeostase" boundaries or the structure of the pathological syndrome as the latter is always a combined expression of pathological processes and compensation phenomena. The main principle of the collective group of the authors is a dynamical investigation of the human organism: of a healthy, a sick, and a recovering one. The authors did not restrict themselves

to the determination of a physiological or biochemical final card 1/4

507/20-126-2-61/64 Adrenaline-like Substances and the Biological Activity of Blood in the Case of Cold Essay Under Normal Conditions and Those of Diencephalic Pathology

sick persons can be divided into 4 groups according to the results: Ist group. The reaction does not differ considerably from the normal reaction. Often there occur, however, considerable shifts which surpass the physiological fluctuations of the content of the investigated substances. Mainly persons with functional disturbances of the activity of the regulatory hypothalamus nerves were concerned. The disease is curable in spite of the patients' complaints and shows a favorable course. IInd group. The sympathetic activity (accumulation of "sympathines") increases here, the adrenaline-like substances increase, sometimes also the SpC in the case of a simultaneous increase in acetyl-chinoline. IIIrd. g r o u p . The sympathetic blood activity and the acetyl-chinoline decrease are reduced. An additional heat essay is recommended (Ref 4). IVth group. The sympathetic blood activity is reduced. Reduction of the adrenaline-like substances, sometimes reduction of SpC. Acetyl-chinoline increases (Fig 2). This occurs in severe diencephalic pathology and is scarcely curable. The increase in the sympathetic blood activity can depend on the accumulation of the adrenaline-

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651920020-5"

and Victim to the Complete of the Complete of

SOV/20-126-2-61/64 Adrenaline-like Substances and the Biological Activity of Blood in the Case of Cold Essay Under Normal Conditions and Those of Diencephalic Pathology

like substances, on the transition of the oxidized forms to reduced ones, but also on the reduction of the "parasympathine" level. The increase in "parasympathine" level is often connected with the reduction of the sympathetic activity. There are 1 figure and 7 Soviet references.

ASSOCIATION: Gruppa chl.-korr. AN SSSR N. I. Grashchenkova pri Otdelenii

biologicheskikh nauk Akademii nauk SSSR

(Group of the Corresponding Member AS USSR N. I. Grashchenkov at the Department of Biological Sciences of the Academy of

Sciences USSR)

PRESENTED: December 4, 1958, by L. S. Shtern, Academician

SUBMITTED: November 29, 1958

Card 4/4

SOKOLINSKAYA, R. A., UGOLEVA, S. V., SHREYBFR, G. L., KASSIL, G. N., VAYSFFID, I. L., and MATLINA, E. SH. (USSR)

"Biochemical Mechanism of Physiological and Pathological Reactions of an Organism of the Introduction of Certain Hormone Preparations."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

SUKOLINSKAYA, R.A.

Influence of small doses of adrenalin on the biological activity of the blood under normal conditions and in some forms of disease of the diencephalic region. Biul. eksp. biol. i med. 52 no.9:40-45 S 161. (hIRA 15:6)

1. Iz laboratorii neyro-gumoral'noy regulyatsii (zav. - chlen-korrespondent AN SSSR N.I. Grashchenkov, rukovoditel' raboty - prof. G.N. Kassil') Instituta vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR, Moskva. Predstavlena akademikom V.N. Chernigovskim.

(ADRENALITE) (BLOOD) (DIENCEPHALON)

KASSIL', G.N.; SOKOLINSKAYA, R.A.

Fhenomenon of acetylcholine fixation by the human blood in vitro.

Dokl. AN SSSR 140 no.4:959-962 0 61. (MIRA 14:9)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR. Predstavleno akademikom V.N.Chernigovskim. (CHOLINE) (BLOOD_ANALYSIS AND CHEMISTRY)

EAUSIN', d.h.; Segretare MANA, R.A.

Rechamism of acetylchcline binding with homes blood in vitro.

Bisl. sksp. bicl. i med. 57 no.4:38-42 Ap 'm.

(MINA 18:3'

1. Laboratoriya neyro-gumoral'noy regulyatsii 'zav. - chlenkureapondent AN SSSR N.I. Grashchenkov) AN SSSR. Submitted April 2, 1963.

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	PAUSHKIN, YA.M., PO MACHUS, F.F., SOKOI	CLAK, L.S., VISHNYAKOVA INSKAYA, T.A.	, T.P., PATALAKH, I	.I.,	er ce cester frequencies	
	New ferrus-contains properties.	ing polymers on the bas	is of ferrocens and	their electrophysic	el estimate	
	Report submitted for Paris, 1-6 July 63	or the International Sy	mposium of Macromolo	ecular chemistry	المحمد والمريخ القيم	
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<u>L 16996-63</u> RM/WW/JD/JW/MAY EWP(j)/EPF(c)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pc-4/Pr-4

s/204/63/003/002/006/006 26

AUTHOR:

Paushkin, Ya. M., Vishnyakova, T. P., Sokolinskaya, T. A., Zimina,

K. I., and Kotova, G. G.

TITLE:

Alkylation of Ferrocene by olefins in the presence of the com-

pounds boron fluoride and aluminum chloride

PERIODICAL:

Neftekhimiya, v. 3, ho. 2, 1963, 280-284

TEXT: The number of olefins used for alkylation of ferrocene was expanded, and such catalysts as the strong complex acid H3PO4. BF3 and BF3. O (C2H5)2, in addition to AlCl3, were used, which allowed the concept on the mechanisms of ferrocene alkylation to be widened and new previously unknown alkylferrocenes to be synthesized. A considerable increase in yields of monoalkyl derivatives of ferrocene is reported. The mono- and di-isooctylferrocenes were obtained by the direct alkylation of ferrocene by olefins. There are 3 tables and 1 figure. The most important English-language references read as follows: T. I. Kealy, P. L. Pavson, Nature, 168, 1039, 1951; G. Wilkinson, F. A. Gotton, J. M. Birmingham, J. Inorg. and Nucl. Chem., 2 95, 1956.

ASSOCIATION: Moscow Institution of Petrochemical and Gas Industry imeni I.N. Gubkin. Card 1/2;

PAUSHKIN, Ya.M.; VISHNYAKOVA, T.P.; PATALAKH, I.I.; SOKOLINSKAYA, T.A.;
MACHUS, F.F.

Ferrocene-based synthesis of polymers and some of their electrophysical properties. Dokl. AN SSSR 149 no.4:856-859 Ap 163. (MIRA 16:3)

l. Institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina. Predstavleno akademikom A.V.Topchiyevym. (Polymers) (Ferrocene)

L 8767-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 WE/RM

ACCESSION NR: AT4008695

5/2982/63/000/044/0015/0026

13

AUTHOR: Paushkin, Ya. M., Vishnyakova, T.P., Sokolinskaya, T.A., Patalakh, I.I., Machus, F.F., Kurasheva, I.D.

TITLE: New iron-containing monomers and polymers of five-membered ring naphthenes

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promy*shlennosti. Trudy*, no. 44, 1963. Neftekhimiya, pererabotka nefti i gaza, 15-26

TOPIC TAGS: cyclopentadiene, ferrocene, iron dicyclopentadieny!-, iron containing polymer, antiknock additive, manganese, (cyclopentadienyl) tricarbonyl-, five-membered ring naphthene, five-membered ring cyclane, epoxy resin, ferrocene derivative, ferrocene alkyl-, ferrocene acetyl-, ferrocene, polymer, naphthene, cyclane, antiknock compound, knock inhibitor, monomer, manganese compound

ABSTRACT: The production of cyclopentadiene and its homologs is of great importance since it is used as a basis for the production of the following products: ferrocene and its homologs, iron-containing polymers, a new antiknock compound—cyclopentadienyltricarbonyl manganese, epoxy resins, polymerized plastics, additives for copolymerization and high activity chemical poisons. Cyclopentadiene can be produced by the

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L 8767-65 ACCESSION NR: AT4008695

dehydrogenation of five-membered ring naphthenic petroleums. The metallo-organic compound ferrocene, based on cyclopentadiene, is obtained by the widely used amine method which guarantees a yield of 84-88%. The physical and chemical properties of ferrocene are discussed in detail. The preparation of ferrocene polymers and derivatives as described in the literature is presented. The alkylation of ferrocene by different olefins (iso- C₄H₈, iso-C₅H₁₀, and iso-C₈H₁₆) in the presence of 25% H₃PO₄. BF₃ at the optimum conditions of 60C and a 5-hr. agitation period, is compared. With an increase in olefin molecular weight, there is a decrease in alkylate yield and ferrocene conversion accompanied by an increase of monoalkylferrocene content. The physical-chemical properties of the prepared alkylferrocenes are listed. Ferrocene and alkylferrocene were then used to obtain ferrocenyl-containing polymers by the polyrecombination reaction which consists of peroxide treatment at 170-200C. The joint polyrecombination of ferrocene with paradichlorobenzene, diphenol, < -bromonaphthalene and quincline was also investigated and the data are tabulated. Soluble polymers were obtained by the polycondensation of ferrocene with acetone in the presence of ZnCl2 + HCl. The preparation of polyferrocenylvinylene from acetylferrocene is described. All the iron-containing polymers give a single component signal in the

Card 2/3

L 8767-55

ACCESSION NR: AT4008695

EPR spectra, which indicates the presence of π -unpaired electrons. The electrophysical properties of iron-containing polymers are discussed. The structure of all the investigated polymers was confirmed by infrared spectroscopy. Orig. art. has: 5 tables and 4 formulas.

ASSOCIATION: Institut neftekhimicheskoy i gazovoy promy*shlennosti, Moscow (Institute of the Petroleum Chemistry and Gas Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE: FP

NO REF SOV: 021

OTHER: 010

Card3/3

ACCESSION NR: AP4030375

S/0190/64/006/003/0545/0550

AUTHOR: Paushkin, Ya. M.; Polak, L. S.; Vishnyakova, T. P.; Patalakh, I. I.; Machus, F. F.; Sokolinskaya, T. A.

TITLE: New iron-containing ferrocone-based polymers and their electrophysical properties.

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no..3, 1964, 545-550

TOPIC TAGS: organic semiconductor, semiconducting polymer, ferrocene polymer preparation, electrical property

ABSTRACT: Fourteen new polymers based on ferrocene and a number of aromatic compounds have been prepared by polyrecombination or polycondensation, and their electrical properties have been studied at the Moscow Institute of the Petrochemical and Gas Industry imeni Gubkin. The polyrecombination of ferrocene and a-bromonaphthalene, p-dichlorobenzene, benzonitrile, salicylic acid, salicylaldehyde, or benzaldehyde, and of isobutyl-, isopentyl-, or isooctylferrocene alone

Cord 1/3

ACCESSION NR: AP4030375

was carried out at 175-200C in the presence of tert-butyl peroxide at various starting material-to-peroxide molar ratios. Yields of 3-39% for soluble (dark-brown) and 23-77% for insoluble (black) solid polymers were obtained. The polycondensation of ferrocene with acetone in the presence of ZnCl2 and hydrogen chloride at 560 formed soluble polymers; that of acetyl- or 1,1'-diacetylferrocone alone in the presence of ZnCl₂ at 2000 and 1800 respectively yielded both soluble and insoluble polymers. All the polymers but alkylferrocenepolyrecombination products gave a one-component signal in the EPR spectrum; x-ray structural analysis showed them to be amorphous, and IR spectroscopy, to be conjugated polymers. Electrical conductivity; was studied at 20-300C and 1×10^{-4} or 760 mm Hg after degassing at 1×10^{-4} mm Hg and 50C for '3 hr. All the polymers: showed a positive temperature coefficient and an exponential temperature dependence of conductivity. Electrical conductivity at 50C ranged from 1×10^{-12} to 1×10^{-9} ohm⁻¹·cm⁻¹; and activation energy, from 0.3 to 1.74 ev (no degassing). Study of the effect of surface adsorption on the semiconducting properties of the 1,1'-diacetylfarrocene polymer showed that the high activation energies (1.5 ev) are

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		NR: AP4030375		
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!	ASSOCIATION promyshlend and Gas In	nosti im. Gubi	/ institut neftakhimiches cina (Noscow Instituta of	
	SUBMITTED:	02Apr63	DATE ACQ: 07May64	ENCL: 00
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•	L 33539-65 EFA(s)-2/EWT(m)/EPF(c)/EWP(j)/T Pc-L/Fr-L/Ft-10 RM
	L 33539-65 EFA(s)-2/EWT(m)/EPF(c)/EWP(J)/T PC-U/FF-U/FV-10 HA
	ACCESSION NR: AT5006931 S/2982/64/000/051/0048/0053 54
	AUTHOR: Belash, P.M. (Professor); Paushkin, Ya.M.; Belov, V.F.; Vishnyakova, T.P.; Nechushkin, A.M.; Sokolinskaya, T.A.; Machus, F.F.
	TITLE: The magnetic properties of terrocene-containing polymers
	SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti. Trudy, no. 51 51, 1964. Neftekhimiya, neftekhimicheskiye protsessy i neftepererabotka (Petroleum chemistry, petrochemical processes and oil refining), 48-53
·	TOPIC TAGS: ferrocene, polymer magnetic property electron paramagnetic resonance, bromonaphthalene polymer, dichlorobenzene polymer, acetylferrocene, hydroxylamine
	ABSTRACT: The electron paramagnetic resonance, magnetic susceptibility and magnetization of ferrocene-containing polymers was determined. The study covered previously described polymers (Dokl. Akad. Nauk v. 149, no. 4, 1963) obtained by the tertbutyl peroxide initiated reaction of ferrocene with \(\Lambda \)-bromonaphthalene in 2:1 (I) and 1:1 (II) molar ratios or of 1:1 molar amounts of ferrocene and p-dichlorobenzene (III); and polymers obtained by polycondensation of ferrocene, acetylferrocene and hydroxylamine
:	Card 1/3

L 33539-65

ACCESSION NP: AT5006931

hydrochloride (IV) or of acetylferrocene and hydroxylamine hydrochloride (V) in the presence of zinc chloride. The EPR spectra (see Fig. 1 of the Enclosure) show high intensity and width, AH, indicating the presence of strong internal fields. The magnetic susceptibility was measured by a published technique and values for specific magnetic susceptibility and g factor are tabulated. The temperature dependence of the magnetic susceptibility of H indicated onset of decomposition at 400°C. The g factor values, susceptibility of H indicate that the ferromagnetic properties of the studied polymers are hased on the organic structure, but the presence of stabilized iron oxides is not ruled based on the organic structure, but the presence of stabilized iron oxides is not ruled out. Orig. art. has: 6 figures, 1 table and 2 formulas.

ASSOCIATION: Institut neftekhimicheskoy i gazovoy promyshlennosti, Mascow (Petrochemical and gas industry institute)

SUBMITTED: 00

ENCL: 01

SUB CODE: OC, EM

NO REF SOV: 005

OTHER: 002

2/3

BELOV, V.F.; VISHNYAKOVA, T.P.; GOL'DANSKIY, V.I.; MAKAROV, Ye.F.;
PAUSHKIN, Ya.M.; SOKOLINSKAYA, T.A.; STUKAN, R.A.; TRUKHTANOV,
V.A.

Study of ferrocene copolymers by means of the Mbssbauer effect.

Dokl. AN SSSR 159 no.4:831-834 D 164 (MIRA 18:1)

1. Institut khimicheskoy fiziki AN SSSR i Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti i . I.M. Gubkina. 2. Chlen-korrespondent AN SSSR (for Gol*danskiy).

L 22007-06 EWI(d)/FSS-2/EWI(1) ACC NR: AP6005291

SOURCE CODE: UR/0413/66/000/001/0034/0034

INVENTOR: Sokolinskiy, A. G.; Orlov, V. N.

ORG: none

TITLE: Method of suppressing false signals (Class 21, No. 177458

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 34

TOPIC TAGS: signal reflection, acoustic line, false signal, signal suppression

ABSTRACT: An Author Certificate has been issued describing a method of false-signal suppression in ultrasonic delay lines with multiple signal reflection in a

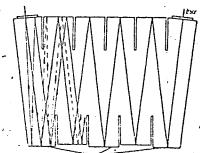


Fig. 1. False-signal suppression

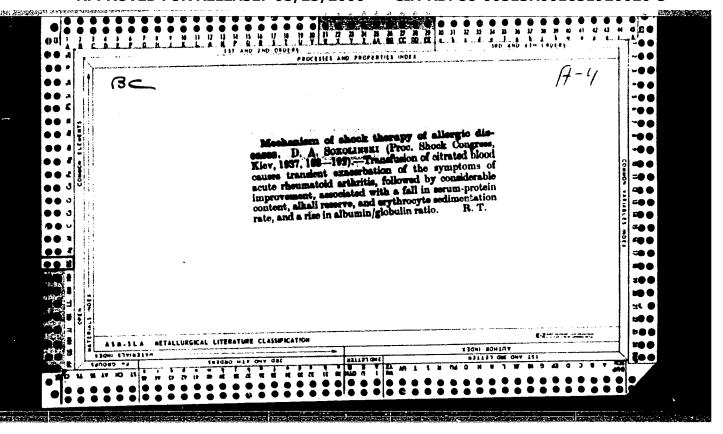
1-3 - Offset reflecting platforms.

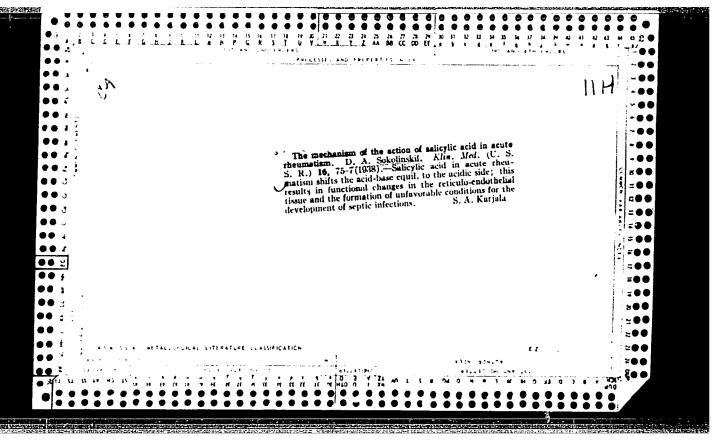
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ΔCC	NR: AP	500529)1	sian salse signals	•
rec	tangular	r acou		ontaining reflecting platforms. To equalize false signals to the to reflecting platforms is offset in parallel to the eam direction (see Fig. 1). Orig. art. has: 1 figure. [NT]	
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rigid sound conductor is made from a quartz and a magnesium part to reduce temperature coefficient. Both parts are located in the same plane and are shaped. The two parts, linked by a transition layer, are mechanically connwith a tightening bracket. Orig. art. has: 1 figure.	polygon-
SUB CODE: 09/ SUBM DATE: 27Apr64/ ATD PRESS: 5104	
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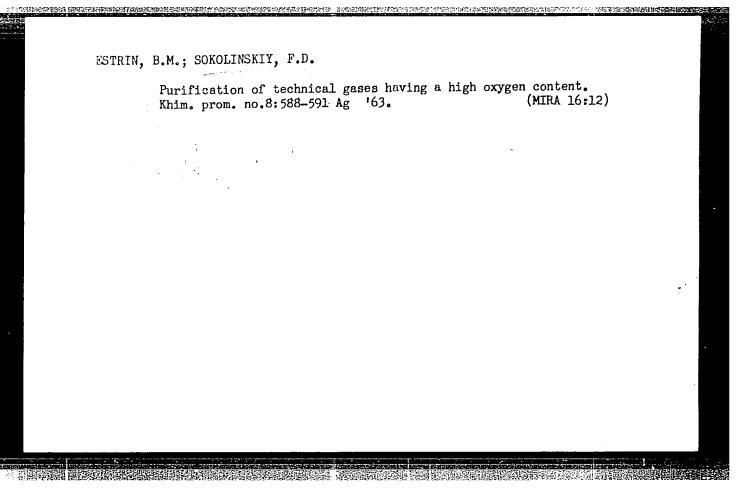
- 1. SOROLINGKYI, D. A., Docent; LEVIN, O. I.; LYUECVYCH, V. I.; FETHIN, M. B.; PTUKHA, R. M.; SCHOCHKINA, S. N.
- 2. USSR (600)
- 4. Influenza
- 7. Cardiovascular system in grippe, Medych. zhur., 22, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SOKOLINSKIY, D.A., dotsent

Characteristics of the course of rheumatism following influenzal infection. Vrach. delo no.11:64-69 N '61. (MIRA 14:11)

1. Kafedra terapii (zav. - prof. T.T.Glukhen'kiy) pediatricheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (RHEUMATIC FEVER) (IMFLUENZA)



SOKOLINSKIY, I.R.

Combined treatment of trichocephaliasis in children with oxygen and diathermy. Med.paraz. i paraz.bol. 28 no.4:438-440 J1-Ag 159.

(MIRA 12:12)

1. Iz 22-y detskoy polikliniki Leningradskogo rayona Moskvy (glavnyy vrach M.V. Pyatyari).

(TRICHURIASIS therapy)

(OXYGEN therapy)

(DIATHERMY)

SOKOLINSKIY, I.R. (Moskva)

Oxygen therapy in nocturnal enuresis, Fel'd. i akush. 28. no.2:15-20 F'63. (MIRA 16:9)

1. Iz Detskoy polikliniki No.22 Leningradskogo rayona. (OXYGEN THERAPY) (URINE—INCONTENENCE)

ACCESSION NR: AT4033626

\$/0000/63/000/000/0084/0108

AUTHOR: Sokolinskiy, I. Ya.; Mishchenko, I. M.

TITLE: The OM-9 teaching machine with a ramified program

SOURCE: Programmirovannoye obucheniye i kiberneticheskiye obuchayushchiye mashiny* (Programmed instruction and cybernetic teaching machines); nauchno-tekhn. sb. statey. Moscow, Izd-vo "Sovetskoye radio," 1963, 84-108

TOPIC TAGS: teaching machine, programmed instruction, language teaching, ramified program

ABSTRACT: The article outlines the basic characteristics and possibilities of the OM-9 teaching machine operating on an expanded or "ramified" program. The operational logic, basic circuitry and examples of the teaching programs are discussed. The OM-9 is able, to a certain degree, to free the instructor from individual seminar work, while aiding him in improving his supervision of the work of each student. The machine is designed, primarily, for individual working-up of material in any technical discipline and also in the technique of analyzing and translating sentences from a foreign language into Russian.

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ACCESSION NR: AT4033626

Work with the machine takes place in the form of a dialogue, at the end of which the machine evaluates the assimilation of the material covered and the ability to apply it to the solution of problems. It is likewise established which question areas the student assimilated poorly and the necessary explanations are furnished for these areas. The logic of the machine operation makes it possible to teach using the ramified programs shown in Figures 1,a and 1,b of the Enclosure. The program shown in Figure 1,a is written on the assumption that the student is somewhat familiar with the given subject. The teaching process takes place as follows: the machine proposes to the student, sequentially one after the other, a series of not more than 18 logically connected questions on a given subject 1.0, 2.0,, N.O. Analyzing the answers of the student, the machine supplies him either with the next question over channels "f", if the answer was correct, or furnishes, over channels "a", information leading to the correct answer (hints) 1.1, 2.1, 3.1,, N.1, if the answer was incorrect. In the event of correct answers after the suggestions, the next question is proposed over channels "d". If the student answers incorrectly even after the additional information, then the machine provides exhaustive clarifications on the troublesome questions over channels "b", after which the next question is submitted over channels "e". If the stu-

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ACCESSION NR: AT4033626

dent has difficulty in answering any of the proposed questions, he can request "assistance", in which event full information 1.2, 2.2, N.2 is immediately provided over channels "c". Operation with the program shown in Figure 1,b differs from the above only in that the machine first submits the new material 1.0, 1.1, 1.2, with question 2.0 then posed as a development of what has gone before, and, if the student answers correctly, the exposition of the subsequent material begins. If the answer is incorrect, then leading advice 2.1 and exhaustive explanations 2.2 are given, followed thereafter by the exposition of the new section 3.0, 3.1, 3.2, etc. Depending on its volume, the material may be arranged on a larger number of frames as well, but the number of frames must be a multiple of three. The machine is particularly applicable to the study of individual aspects of the theory of automatic control and foreign languages. The complete OM-9 machine contains a modernized LETI-55 slide projector, control panel and set of programs with answer cards. The programs are filmed on motion picture film and stored in special cassettes. The volume of the programmed themes depends on the capacity of the cassettes of the projector and must not exceed 54 standard film frames, The sequence with which the program texts are arranged on the film frames is indicated in appendices to the article. The material is projected on a screen and the answers are introduced

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ACCESSION NR: AT4033626

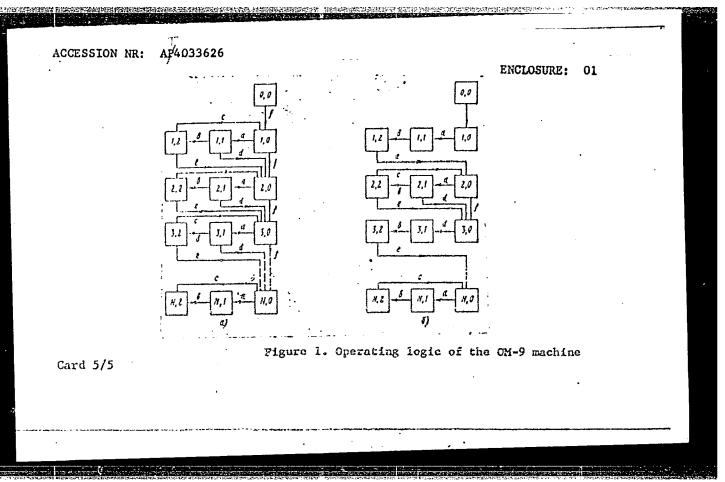
by the selection method by means of buttons. For each new subject new answer values are ascribed to these buttons and, simultaneously with the working up of teaching programs, correct and incorrect answer card sets are compiled which are interchangeable together with the film-program. The operation of the circuitry is described, certain particularities of the programming of the machine are discussed and certain conclusions and possible improvements are advanced. Two examples of programming are given in the appendices to the article: one from the theory of automatic control, the other dealing with the translation of a complex German sentence into Russian. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 03Dec63 DATE ACQ: 16Apr64 ENGL: 01

SUB CODE: DP NO REF SOV: 003 OTHER: 001

Card 4/5



IJP(c) Po-4/Pq-4/Pg-4/Pk-4 EWT(d)/TDB(jj)/BXT/EED-2/EWP(1) S/0044/64/000/008/V033/V033 23851-65 ACCESSION NR AR4046320

SCURCE: Ref. zh. Matematika, Abs. 8V227

AUTHOR: Sokolinskiy, I. Ya.; Mishchenko, I. M.

TITLE: The teaching machine OM-9 with branched program

CITED SOURCE: Sb. Programmir. obucheniye i kibernet. obuchayushchiye mashiny*. M., Sov. radio, 1963, 84-108

TOPIC TAGS: teaching machine, branched program, program variant, diaprojector, control panel, control button, machine learning, machine programming,

TRANSLATION: The machine OM-9 is designed to free teachers of higher institeaching example tutes of learning from conducting special seminar assignments and to help the instructor improve supervision of each student's work. The student converses with the machine; this may facilitate independent study of material in any technical discipline and the acquisition of translation technique from a foreign into the

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Russian language. As a result of the conversation, the machine will evaluate the degree to which the material has been assimilated and the student's skill of applying it in practice. On all questions which require additional knowledge, the machine gives the necessary explanations. Two variants of branched program teaching are presented, the first of which has been set up based on the student's having some knowledge of the material. In this case, the machine asks a succession of logically related questions. After analyzing the answers, the machine asks a new question or supplies information leading to the correct answer. In the second variant, the machine issues new information, then asks a control question. If the answer is correct, new material will be presented; if it is incorrect directive advice is given. At the end of the study period of the subject, the machine evaluates how the student has assimilated the material. Setting up of the study program requires as much time as needed by the instructor to prepare for the lecture or the seminar. The machine contains a modernized diaprojector LETI-55, a control panel and an assembly of programs with answer cards. The frontal part of the control panel has 30 answer buttons, 4 control buttons-"start up", "proceed", 'help" and "result of fields". The basic arrangement of the control panel is described and individual stages of its work characterized in de-Card 2/3

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tail. The specific features of programming for the OM-9 machine are discussed. It is noted that skilful programming of the subject to be handled by the machine will considerably increase teaching efficiency. Possible directions for modernizing the machine are outlined. Examples are given for programs for studying the following subjects: "Transfer, transit and frequency characteristics of the aperiodic link" and "Technique of analysis and translation of a complex proposition from German into Russian".

SUB CODE: DP

ENCL: 00

Card 3/3

ROSTUNOV, T.I.; SOKOLINSKIY, I.Ya.

Classification, requirements, and structural principles of simple teaching machines. Izv. vys. ucheb. zav; radiotekh. 6 no.4:387-394 Jl-Ag 163. (MIRA 16:11)

SOKOLINSKIY, I.Ya.; MISHCHENKO, I.M.

Teaching machine with a ramified program. Izv. vys. ucheb.

zav.; radiotekh. 6 no.42425-434 Jl-Ag '63. (MIRA 16:11)

MIKHNUSHEV, A.G.; SOKOLINSKIY, I.Ya.

Teaching machine with automatic answers. Izv. vys. ucheb. zav.; radiotekh. 6 no.4:435-439 Jl-Ag '63. (MIRA 16:11)

SOKOLINSKIY, losif Yakovlevich, kand.tekhn.nauk, dotsent; MIKHNUSHTV, Aleksey Gur'yevich, prepodsvatel'

The OM-9-5 teaching machine. Izv.vys.ucheb.zav.; elaktromekh. 8 no.8:895-900 165. (MIRA 18:10)

J. Kiyevskoye vyssheye inzhenerno-radiotekhnichaskoye uchilishche.

PICHKUR, I	.F.; SOKOLINSKIY, L.M.		
	thod of taking and culturur.mikrobiol.epid.i immun	ing feces for dysentery ex . no.1:44 Ja '54.	amination. (MLRA 7:2)
1.	Iz sanitarno-epidemiolog: (Dysentery)	icheskogo otryada. (FecesAnalysis)	

SOKOLINSKIY, L.M., podpolkovník medítsinskoy sluzhby

Prental magnifying glass in bacterilogical practice. Youn.-med.

2 hur. no.9:66 S '55.

(MERA 9:9)

(BACTERIOLOGY--APPARATUS AND SUPPLIES)

SOROLINSKIY, L.M., polkovnik med. sluzhby.

Hodification of Peshkov's medium for macroscopic diagnosis of the mobility of enteric bacteria. Voen.-med. zhur. no.11:85 N '56.

(INTESTINES--BACTERIOLOGY)

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

BARTASHEV, L.; SHKLOVSKIY, Ya.; VAYNSHTEYM, P.; SOKOLINSKIY, P.

Textbook for correspondence students of economical institutes
("Organization and planning of machinery plants" E.G. Liberman
and others). Reviewed by L. Bartashev and others.
and others.
(MIRA 14:6)
Mashinostroitel' no.6:46 Je'61.
(Liberman, E.G.)(Zviagintsev, IU.E.) (Zolotarev, A.N.)
(Kononenko, V.V.) (Makarova, G.M.) (Oleinik, S.U.)
(Industrial management)

VOLKOV, V.A., inzh.; SOKOLINSKIY, P.S., inwh.

Scientific technical conference on the organization and economics of technical preparation of production processes. Vest. mashinostr. 45 no.5:84-85 My '65.

(MIR4 18:6)

VOLKOV, V.A., inzh.; SOKOLINSKIY, P.S., inzh.

Conference on scientific organization of labor. Vest. mashinostr.
45 no.7:84 Jl '65.

(MIRA 18:10)

SOKOLINSKIY, V.B.

Calculating hydropercussion mechanisms. Izv.vys.ucheb.zav.;
geol.i razv. 2 no.3:102-111 Mr '59. (MIRA 12:12)

1. Institut gornogo dela AN SSSR.
(Boring machinery)

的现在分词,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,

SOKOLINSKIY, V. B.

Cand Tech Sci - (diss) "Study of the operating process of water-percussion drilling mechanisms." Moscow, 1961. 13 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Geological Survey Inst imeni S. Ordzhonikidze); 160 copies; price not given; (KL, 10-61 sup, 219)

Using the wave method to calculate the dynamics of a percussion tool. Nauch. soob. IGD 18:121-131 163.

(MIRA 16:11)

EWT(1)/EWA(h) L 8782-66 ACC NR: AP5028141

SOURCE CODE: UR/0106/65/000/011/0041/0047

AUTHOR: Sokolinskiy, V. G.

ORG: none

TITLE: Operation of an external-feedback shf FM oscillator with an unmatched long line

SOURCE: Elektrosvyaz', no. 11, 1965, 41-47

TOPIC TAGS: shf oscillator, FM oscillator

APPROVED FOR RELEASE: 08/25/2000

ABSTRACT: The characteristics of an external-feedback shf oscillator (e.g., a TW tube) with FM in the feedback loop operating in conjunction with an unmatched (or incompletely matched) long transmission line are theoretically investigated. It is found that, under the above conditions, the slope of the modulation characteristic changes, nonlinear distortion appears, and the modulation affects

Card 1/2

UDC: 621.396.61:029.64:621.373.029.64

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