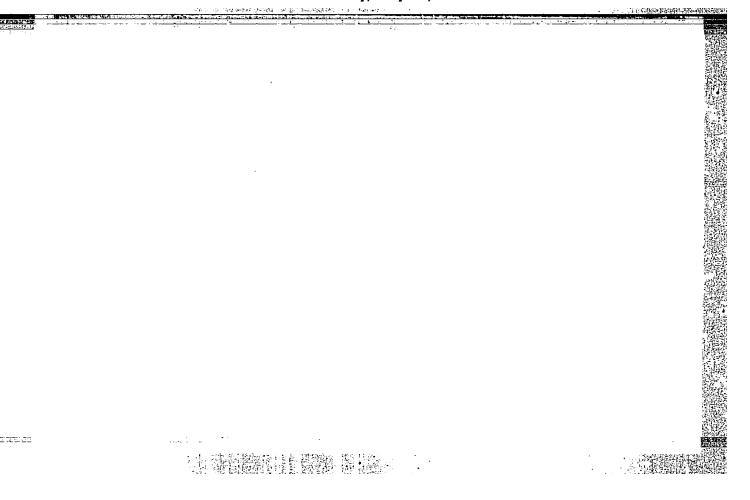
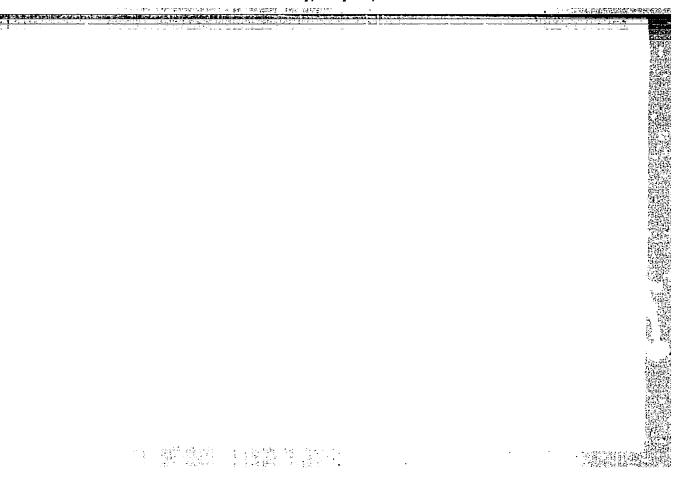
# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041272

L 17078-63 EWP(j)/EPF(c)/EWP(q)/EWT(m)/EDS ASD Pc-4/Pr-4 RM/WW/JD  S/020/65/149/006/018/027  AUTHOR: Minsker, K. S., Fedoseyeva, G., T., Vorob'yeva, H. A., and Corresponding  Rember of the Accidenty of Sciences USER G. A. Razuvayev  SOURCE: ANSSSR, Doklade, v. 149, nd. 6 p. 1351, 1963  TIME: Polymenization of ethylene on a chlorinated mixture of titanium and  cluminum  (TEXT: By polymenizing ethylene at low pressure in the presence of a chlorinated	
AUTHOR:  Minsker, K. S., Fedoseyeva, G. T., Vorob'yeva, H. A., and Corresponding  Member of the Accident of Sciences USSR G. A. Razuvayev  SOURCE:  ANSSSR, Doklade, v. 119, no. 6 p. 1351, 1963  TILLE:  Polymerization of ethylene on a chlorinated mixture of titanium and cluminum  TEXT:  By polymerizing ethylene at low pressure in the pressure of a chlorinated	
AUTHOR: Minsker, K. S., Fedoseyeva, G. T., Vorob'yeva, H. A., and Corresponding  Member of the Accident of Sciences USSR G. A. Razuvayev  SOURCE: ANSSSR, Doklade, v. 119, no. 6 p. 1351, 1963  TIME: Polymerization of ethylene on a chlorinated mixture of titanium and cluminum  TEXT: By polymerizing ethylene at low pressure in the pressure of a chlorinated	
SOURCE: ANSSSR, Doklady, v. 119, nd. 6 p. 1351, 1963  TITLE: Polymerization of ethylene on a chlorinated mixture of titanium and cluminum  7  TEXT: By polymerizing ethylene at low pressure in the pressure of a chlorinated	
SOURCE: ANSSR, Doklad, v. 119, n. 6 p. 1351, 1963  TIME: Polymerization of ethylene on a chlorinated mixture of titanium and cluminum  TEXT: By polymerizing ethylene at low pressure in the pressure of a chlorinated	
SOURCE: ANSSSR, Doklade, v. 119, no. 6 p. 1351, 1963  Polymerization of ethylene on a chlorinated mixture of titanium and cluminum  TEXT: By polymerizing ethylene at low pressure in the pressure of a chlorinated	
TEXT: Polymerization of ethylene on a chlorinated mixture of titanium and 27  TEXT: By polymerizing ethylene at low pressure in the pressure of a chlorinated	-
TEXT: By polymerizing ethylene et low pressure in the pressure of a chloriented	- 2
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mixture of titanium and aluminum the authors obtained a high yield of solid poly-	
conjugate which a nour point of 120-135°C. The titurism of the minimum and the same	
this purpose were prepared from $\alpha$ -TiCl <sub>3</sub> + AlCl <sub>3</sub> + Al, $\alpha$ -TiCl <sub>3</sub> (Al + ECl), and treated with chlorine before being used as catalysts in the polymenization. The authors	٠.
treated with chlorine before being used as catalystalin the nolyment action . The authors	
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Mydivious Cimorias or Calorine in henzene there force a nor term of an autimatical	
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144 P420121 Cylic. In this connection the formstion of money to accompany	-
by the extension of the dryf-metal Ne-Ph by oxygen but by the oxidation of herzona	
in the presence of AlCl3 and titanium chlorides.	
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SURVITTED: June 25, 1962	
Card 1/1	
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RAZUVAYEV, G.A.; MINGKER, K.S.; FERGUEYEVA, G.T.

Gatalytic systems for the polymerization of ethylene. Neftexhimia 4 no.4:572-575 Jl-Ag '64, (MIRA 17:10)





# "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041272

G. I.; Pakhomova, I. K.	T. B.; Bubis, L. D.; Fedeseyeva, G. T.;	Burlakova,	_
ORG: none	,	H2	•
TITLE: Evaluation of the thermal st	ability of polyvinyl chloride	り	
SCURCE: Plasticheskiyo massy, no. 9	9, 1966, 56-59		
TOPIC TAGS: polyvinyl chloride, pol stabilizer	ymor stability, antioxidant additive, ch	homical	
ADSTDACTOR A . A . A . A . A . A . A . A . A . A		ĺ	
of PVC and the time 0 required for established can be used for character for the effectiveness of stabilizor stabilizor additives introduced into torized by a value of 6 class to the control of the class to the cla	ability of polyvinyl chloride (PVC) con acceptors) showed that the rate of dec a first-order cohydrochlorination react rizing PVC, and that 0 can serve as a caction. A correct and unambiguous esti PVC requires that the initial polymer of the result of the content of the conte	composition ion to be criterion mate of the	
of PVC and the time $\theta$ required for established can be used for character for the effectiveness of stabilizer stabilizer additives introduced into the torized by a value of $\theta$ close to zero antickidant stabilizers caused a cation reaction. The effectiveness contined from the charge in the second second and the charge in the second sec	a first-order cohydrochlorination react rizing PVC, and that 0 can serve as a c	composition ion to be criterion mate of the be characted content drochlorings be de-	

L (18435-67 ACC NR: 126030857

liboration of HCl, also called thermal stability;  $\tau$  is described by the Arrhenius equation  $1/\tau = A \exp(E/RT)$ . It was found that A and E characterize the chemical nature of PVC. The use of this equation for estimating PVC compositions should aid in obtaining a definite picture of the action of stabilizers introduced into PVC. Another equation which also applies to the PVC - stabilizer systems studied expresses the dependence of the thermal stability on the concentration of stabilizers introduced,  $\tau = B \cdot C^{1/n}$ , where C is the concentration of the stabilizer and B and n are constants for a given series of experiments. Orig. art, has: 6 figures and 2 tables.

SUB CODE: 11/ SUEM DATE: none/ ORIG REF: 011/ OTH REF: 006

Card 2/2

15

L 01045-67 EWT(m)/EWP(1)/T IJP(c) ACC NR AP6019541 SOURCE CODE: UR/0190/66/008/006/1028/1034 (A)AUTHOR: Minsker, K. S.; Zavarova, T. B.; Bubis, L. D.; Fedoseyeva, G. T.; Burlakova G. I.; Pakhomova, I. K. ORG: All-Union Scientific-Research Institute of Chloroorganic Products and Acrylates (Vsesoyuznyy nauchno-issledovatel'skiy institut khlororganicheskikh productov i akrilatov) TITLE: Assessment of the thermal stability of polyvinyl chloride and the efficiency of thermostabilizers SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 6, 1966, 1028-1034 TOPIC TAGS: polyvinyl chloride, solid mechanical property, chemical stabilizer, ABSTRACT: A critical evaluation of the methods of assessment of the thermal- and therm al-oxidative stability of PVC is given and the efficiency of the thermostabilizing additives to PVC are discussed. The thermal stability of polyvinyl chlorides containing such stabilizers as 3Pb0.PbS04, dibutyl lead maleinate, disbutyl lead laureate, calcium stearate, diphenylolpropane, bis-(2-methyl-4-oxy-5-teriary-butylphenyl)-sulfide. bis-3-(methyl-4-oxy-5-teriary-butylphenyl)methane, dibutyl-4,5-epoxyhexahydrophthalate, lead stearinate, and 2-oxy-4-methoxy benzophenone was examined by means of measuring HCl liberation during the heating of various stabilized PVC samples at 170°C UDC: 678.01:54+678.743 Cord 1/2

L 01045-67

ACC NR: AP6019541

for 0-300 minutes. It was found that for the evaluation of the thermal stability of the stabilized PVC, the commonly used indices such as "integral rate of HCl liberation for 180 min heating at standard conditions" and "thermostability" are inapplicable. The following indices are recommended as a basis for evaluating the thermaland thermal-oxidative stability of the PVC stabilizers: (1) the time from the beginning of the decomposition reaction to the point at which the reaction rate becomes constant; (2) the rate constant of the dehydrochlorination reaction; and (3) the temperature dependence of the time of initiation of the PVC thermal decomposition at 170°C. Orig. art. has: 4 figures, 1 table.

SUB CODE: 07/ SUBM DATE: 31May65/ ORIG REF: 012/ OTH REF: 007

awm

Card 2/2

ACCESSION NR: AP4038004

\$/0170/64/000/005/0096/0099

AUTHOR: Salamandra, G. D.; Fedoseyeva, I. K.; By\*kova, N. H.

TITLE: Measuring gas velocity behind a shock wave

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 5, 1964, 96-99

TOPIC TAGS: gas flow velocity, shock wave, subsonic gas flow, shock wave propagation, flow velocity measurement, gas flow

ABSTRACT: A method has been developed for measuring subsonic gas velocities behind a shock wave in a shock tube. The gas velocity was measured by two independent methods: by measuring the velocity of thermal inhomogeneities formed by spark discharge in the gas moving behind a shock wave, and by determining the velocity of sound waves generated by spark discharge in the gas flow behind the wave. The high-pressure chamber of the shock tube was filled with a stoichiometric hydrogen-axygen mixture at a pressure of 61318 n/m<sup>2</sup>, and the low-pressure chamber, with nitrogen at 78647 n/m<sup>2</sup>.

Card 1/2

# ACCESSION NR: AP4038004

The distance between the contacts for spark discharge was selected in such a way that the "traces" would appear in the medium already brought in motion by the shock wave. By processing of time-resolved co- or countercurrently to the flow can be determined, and the gas velocity calculated. The experiments have shown that gas velocities the range from 173 to 286 m/sec were measured by the methods behind and 1 table.

ASSOCIATION: Energeticheakly institut im. C. H. Krzhizhanovskogo, Moscow (Power Engineering Institute)

SUBMITTED: 16Feb63

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: ME

NO REF SOV: 005

OTHER: 006

Card 2/2

ACCESSION NR: AP4041871

5/0170/64/000/007/0047/0052

AUTHOR: Salamandra, G. D.; Fedoseyeva, I. K.

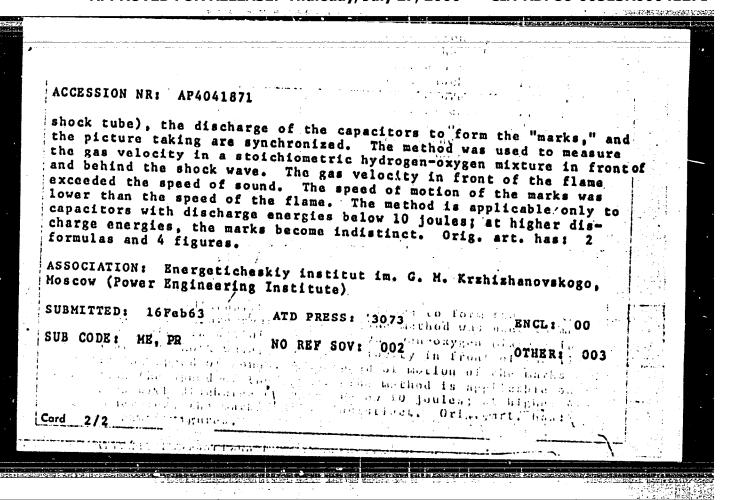
TITLE: The measurement of gas velocity in a combustible medium

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 7, 1964, 47-52

TOPIC TAGS: gas velocity, gas velocity measurement, combustible medium, optical nonuniformity, shock wave, Toepler photography, hydrogen, oxygen

ABSTRACT: A new method is described for measuring gas velocities in combustible media. It is based on the initiation of optical non-uniformities ("marks") in a stationary gas by heating small sections of the gas with thin Cr-Ni wire through which a small capacitor is discharged. The gas was set in motion by a shock wave and registered by Toepler photography, using both motion-picture and high-speed single-frame techniques. The experiments were carried out in a tube 36 x 36 mm consisting of several sections, one of which had lenses. The tube is connected to a shock tube and to the photographic equipment. The explosion (in a high-pressure chamber connected to the

Card 1/2



SALAMANDRA, G.D.; FEDOSEYEVA, I.K.; BYKOVA, N.M.

Measuring gas velocity behind a shock wave. Inzh.-fiz. zhur. 7 no.5: 96-99 My 164. (MIRA 17:6)

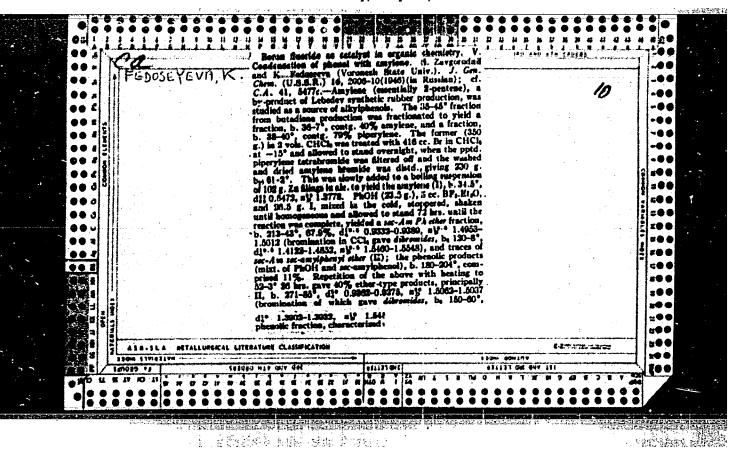
1. Energeticheskiy institut imeni G.M. Krzhizhanovskogo, Moskva.

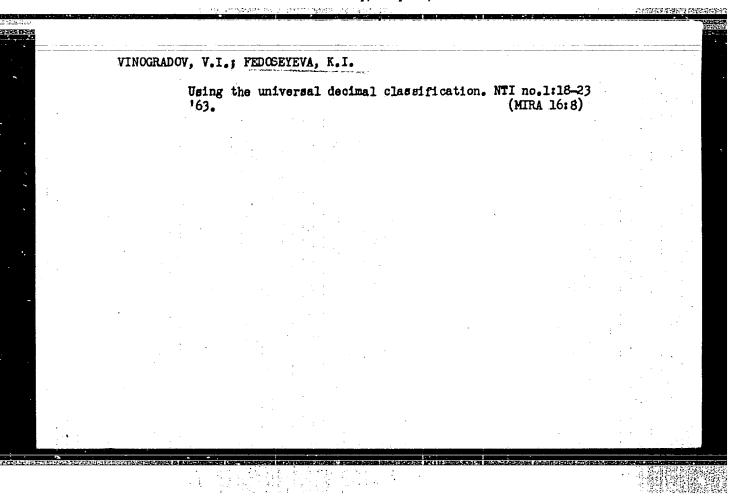
SALAMANDRA, G.D.; FEDOSEYEVA, I.K.

Gas velocity measurement in a flammable medium. Inzh.- fiz. zhur. no.7: 47-52 Jl '64. (MIRA 17:10)

1. Energeticheskiy institut im. G.M. Krzhizhanovskogo, Moskva.

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041272





9.4120 (1003,1105,1140,1049)

S/057/61/031/003/015/019 B125/B209

AUTHORS:

Fedoseyeva, L. A., Granovskiy, V. L.

TITLE:

Cooling of an electron gas in a decaying mercury plasma

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 31, no. 3, 1961, 357-366

TEXT: The present paper deals with the decrease of the electron temperature T<sub>e</sub> in the initial stages of cooling (in a period 0 - 400 per sec after disconnection of the electric discharge field). In addition, a second problem has been solved: The authors determined the decrease in concentration n<sub>e</sub> of the free electrons and compared it with the decrease in concentration of the positive ions. Thus, both methods of studying the de-ionization of a gas were intercompared. The investigations were carried out in the plasma of a low-pressure arc in mercury vapor under the following conditions: Vapor pressure 10<sup>-2</sup> - 5.8·10<sup>-2</sup> mm Hg, amplitude of the discharge current 1.3 a, tube diameter 65 mm. De-ionization was studied by oscillographic observation of the current through a probe inserted into the plasma. When the instant t<sub>1</sub> is properly chosen, Card 1/8

Cooling of an electron gas in ...

Card 2/8

S/057/61/031/003/015/019 B125/B209

the values of the probe current at t = t, may be determined from all oscillograms taken at different Uprobe. The same characteristics were plotted also for other t values. From these characteristics, the authors determined Te and next various times t, and thus Te(t) and ne(t). The simplified circuit diagram of the arrangement is shown in Fig. 1. Fig. 2 shows four probe oscillograms taken at the same pe and the same current in the tube, but at different Uprobe (probe potential):

a) For Uprobe = -25 v (with respect to the other probe) an ion current which is constant until the current in the tube breaks, flows to the probe, after which it decreases on account of de-ionization.
b) For Uprobe = -6.2 v the same holds, but the current flowing to the probe is weaker than in case a).
c) For Uprobe = -5.9 v, the current flowing to the probe is predominant in the arc stage. After breaking of the arc, the ion current flowing to the probe vanishes gradually, and a decreasing ion current is left. d) For U=-1.3 v, an ion current

Cooling of an electron gas in ...

S/057/61/031/003/015/019 B125/B209

is continuously flowing to the probe. At the vapor pressures  $p_0 = 1.10^{-3} (20^{\circ}\text{C}), \sim 5.10^{-3} (40^{\circ}\text{C}), 17.10^{-3} (60^{\circ}\text{C}), \sim 58.10^{-3} (80^{\circ}\text{C}),$ 15 to 18 oscillograms each were taken at least, and from these the probe characteristics with a spacing of 20  $\mu$  sec were drawn (Fig. 4). Te decreases quickly and then slowly, and from the curvature of the probe characteristics one may ascertain the absolute electron concentration n at different times t. Tables 1 and 2 show the initial constants of time t, of the concentration drop as determined by both methods. The agreement of these results proves the measurements during de-ionization to be correct. An investigation of the time dependence of  $T_{\mathbf{a}}$  and  $n_{\mathbf{a}}$  during de-ionization of the discharge plasma in the pressure range of from 1 to 58.10-2 mm Hg at a discharge current of 1.3 a in a 65 mm thick tube showed the following: 1) The simple method of determining to from an oscillogram of the ion current impinging upon the probe at constant probe potential is reliable. 2) In the initial stage of ionization, T decreases the faster, the higher the pressure. 3) The difference  $T_e - T_g$  in the Card 3/8

Cooling of an electron gas in ...

S/057/61/031/003/015/019 B125/B209

process of de-ionization decreases gradually, but even after 400 µsec of thermal equilibrium a mercury discharge does not occur in the plasma. The final temperature of the electrons attained during this time is the lower, the higher the pressure. In the initial stage of the process, inelastic collisions of first kind play the principal part in gas cooling at all pressures examined and at 1 - 5.10<sup>-2</sup> mm Hg during the whole time (0 - 400 µ sec). Elastic collisions are predominant at p > 10.10<sup>-3</sup> mm Hg in all later stages of the process. 5) The metastable atoms as the only energy reservoir of the electrons in the decaying plasma play an important part in the initial and final stages of the process. There are 5 figures, 4 tables, and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. The two most recent references to English-language publications read as follows: F. Mohler, Journ. Res. Bur. Stand. 19, 447, 1937; J. H. Simons, R. P. Seward, Journ. Chem. Phys., 6, 790, 1938.

ASSOCIATION:

Vsesoyuznyy elektrotekhnicheskiy institut im. V. I. Lenina

Moskva (All-Union Institute of Electrical Engineering

imeni V. I. Lenin, Moscow)

SUBMITTED:

June 6, 1960

Card 4/8

# "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041272

FEDOSEYEVA, L. I. FD-682 USSR/Biology - Bruchophagus infestations : Pub. 129 - 17/25 Card 1/1 : Fedoseyeva, L. I. Author A PROPERTY AND A SECOND PORTION OF THE PERSON OF THE PERSO : Bruchophagi living in bean seeds Title : Vest. Mosk. un., Ser. fizikomat, i yest, nauk, Vol. 9, No. 3, Periodical 113-118, May 1954 : Describes works conducted in the Tinguta steppe forest (leskhoz) Abstract and in certain valleys of the Stalingrad Oblast, in which more than 20 species of wild leguminous plants were investigated from the viewpoint of infesting them with bruchophagi. : Chair of Entomology Institution : August 28, 1953 Submitted

FEDOSEYEVA L. I.

USSR / General and Specialized Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6640.

Author : Fedoseyeva, L. I.

Inst : AS USSR.

Title : New Species of Bruchophagus Ashm. (Hymenoptera,

Chalcidoidea), Developing on Leguminous Plants.

Orig Pub: Doklady AN SSSR, 1956, 111, No 2, 491-493.

Abstract: Bruchophagus kolobovae, obtained from the seeds of Lotus corniculatus (Podmoskov'ye, Poltava,

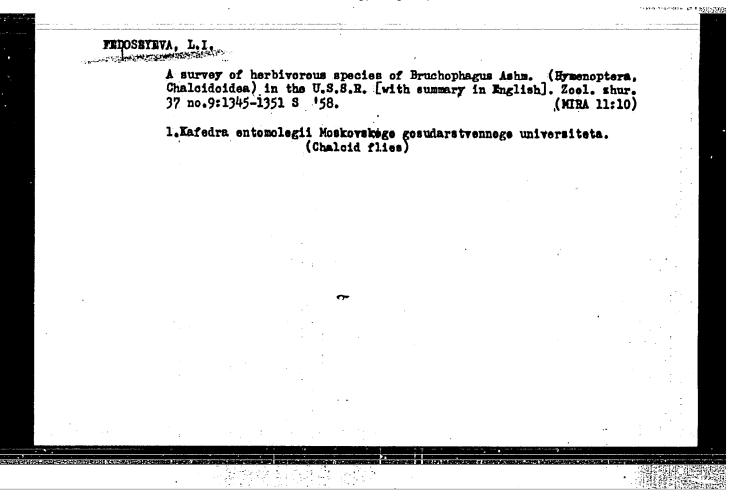
of Lotus corniculatus (Podmoskov'ye, Poltava, Pyatigorsk); B. coluteae, from the seeds of Colutea media (Uzbekistan); B. hedysari, from the seeds of Hedysarum sibircum (Western Siberia); B. macronycis, from the seeds of Astragalus macronyx (Alma-Ata) and A. sieversianus (Uzbekistan),

are described. -- A. P. Adrianov.

Chair of Entomology, Moseon State Univ.

Card 1/1

1



## FEDOSEYEVA, L. I.

Materials on the ecology of some species of the genus Bruchophagus Ashm. (Hymenoptera, Kurytomidae), seed pests of leguminous plants. Nauch. dokl. vys. shkoly; bicl. nauki no.3:14-18 \*60.

1. Rekomendovana kafedroy entomologii Muskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(Stalingrad Province-Chalcid flies) (Leguminosae-Diseases and pests)

# FEDOSEYEVA, L.I.

Genus Meromyza Mg. (Diptera, Chloropidae) in the U.S.S.R. Nauch.dokl. vys.shkoly: biol. nauki no.4:46-51 '60. (MIRA 13:11)

1. Rekomendovana kafedroy entomologii Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(FRIT FLIES)

## PEDOSEYEVA, L.I.

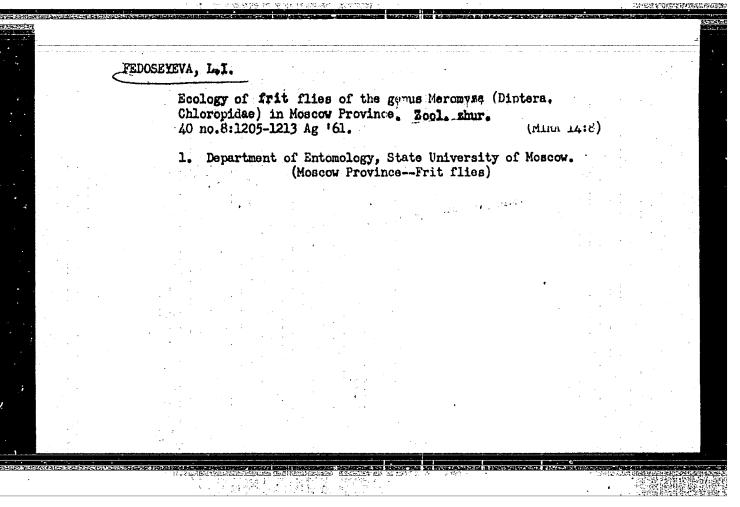
Species of the genus Meromysa Maig. (Diptera, Chloropidae) in the Moscow area. Ent. oboz. 39 no.2:450-461 160.

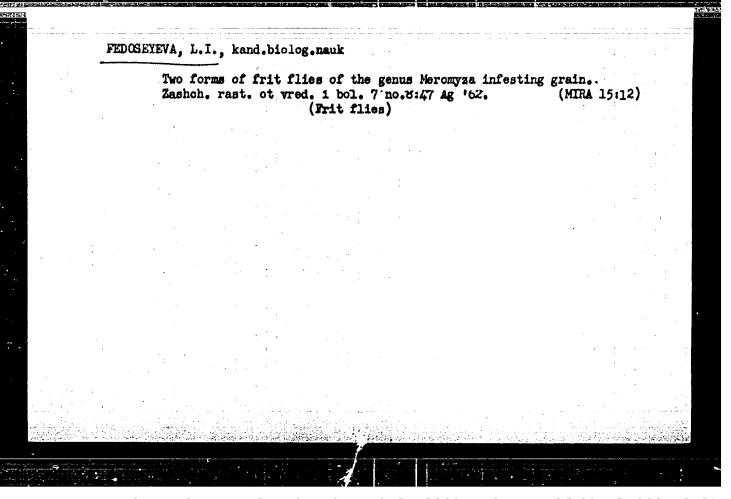
(MIRA 13:9)

1. Kafedra entomologii Moskovskogo gosydarsvennogo universiteta, Moskva. (Moscov Province— Frit flies)

# FEDCSETEVA, L.I., kand.biolog.nauk New data on grain flies of the gemus Meromyza., Zaubch. rast. ot vred. i bol. 6 no.5:41-42 My 151. (MIRA 15:6) 1. Moskovskiy gosudarstvennyy universitot. (Moscov Province—Meromyza)

# PEDCSEYEVA, L.I. New palearctic species of frit flies of the gemus Memoryza Mg. (Diptera, Chloropidae). Ent.oboz. 40 no.3:704-709 '61. (MIRA 15:3) 1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta, Moskva. (Frit flies)





# FEDOSEYBVA, L.I.

Ecology and taxonomy of frit flies of the genus Meromysa Mg. Vop. ekol. 7:193-192 '62. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet. (Frit flies)



FEDOSEY	SVA, L.I.	-
	Studying European frit flies of the genus Meromyza Mg. (Diptera, Chloropidae). Ent. oboz. 41 no.2:470-474 162. (MIRA 15:11)	
	l. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta.	
	(Frit flies)	-
		,
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SUKHAREV, Mikhail Ivanovich, kand. tekhn. nauk; FEDOSEYEVA, Larisa Semenovna, inzh.; EYKASOVA, G.I., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Use of nonwoven fabrics (fibrous paper type) in the manufacture of men's jackets] Ispol'zovanie netkanykh materialov (tipe voloknistoi bumagi) pri izgotovlenii muzhskogo pidzhaka.

Leningrad, 1961. 18 p. (Leningradskiy Dom nauchno-tekhnicheskoi propagandy. Obmer peredovym opytom. Seriia: Shveinaia promyshlennost', no.5)

(MIRA 15:3)

(Tailoring) (Nonwoven fabrics)

ACC NR: AP6023402

AUTHOR: Sukharev. M. I. (Candidate of technical sciences, Docent); Fedoseyeva, L. S. B

ORG: Leningrad Institute of the Textile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstil'noy i legkoy promyshlennosti)

TITLE: General conditions for testing glued nonwoven materials

SOURCE: IVUZ. Tekhnologiya legkoy promyshlennosti, no. 2, 1966, 51-54

TOPIC TAGS: adhesive, textile, sorption

ABSTRACT: In recent years the Soviet industry has mastered the production of new textile articles, including glued nonwoven materials. They consist of textile fibers glued together by various latexes. The sorption properties of the latter are somewhat different from those of textile fibers. Furthermore, it is known that all glued nonwoven materials lose up to 50—60% of their strength with an increase of their water content and when they become wet. Therefore the purpose of this study was to investigate the sorption properties of glued nonwoven materials and to elicit the time required to reach an equilibrium water content of these materials during absorption and loss of water. Glued nonwoven materials differing in fiber

Card 1/3

L 43729-66 ACC NR: AP6023402

3

composition and glued by different latexes were used in the investigation. The specimens used in the test contained 100% cotton or a mixture of cotton, dacron, nitron, and verel bonded with butadiene-acylonitrile synthetic rubber. The water loss of the glued nonwoven materials was investigated by placing the specimens in a desiccator with 100% relative humidity for 24 hr and then into an air-conditioned chamber with a relative humidity of 65% and temperature of 20C. To determine the water loss the specimens were weighed every 4, 6, 16, 24, 30 and 34 4.0 until an equilibrium state was reached. The absorption of water by the materials was determined by drying the specimens to a constant weight at 105-110C and then placing them in an air-conditioned chamber with a relative humidity of 65% and temperature of 20C. The water content of the materials was determined every 4, 6, 16, 24, and 30 hr before an equilibrium water content. The results obtained were analyzed statistically. It was found that the water content of glued nonwoven materials depends upon the nature of the fiber and the type of latex. The sorption properties of presently used latexes are lower than for textile fibers, which leads to comparatively low sorption properties of glued nonwoven materials. Sorption equilibrium of the glued nonwoven materials under conditions of 65% relative humidity and at 20C occurs with the absorption of moisture after 24 hr and with the loss of moisture after 30 hr. When testing glued nonwoven materials to determine strength, elongation, weight per square meter, wear resistance, and other mechanical and physical properties, these materials should be kept spread out at a relative humidity of 65  $\pm$  5% and temperature of 20  $\pm$ 5C for at least 30 hr. When determining the water content, hygroscopicity, and water loss

Card 2/3

of glued non	woven materials, five strips (50 x 200 mm) should be cut out for each	O type of test.
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Card 3/3	hs	

USSR/Virology - Viruses of Man and Animals. Measles Virus.

E

Abs Jour

: Ref Zhur Biol., No 6, 1959, 23846

Author

: Fedoseyeva, L.V.

Inst

: Odessa Scientific Research Institute of Epidemiology

and Microbiology

Title

: An Experiment of Obtaining Dry Anti-Measles Serum.

Orig Pub

: Tr. Odessk. n.-i. in-ta epidemiol. i mikrobiol., 1957,

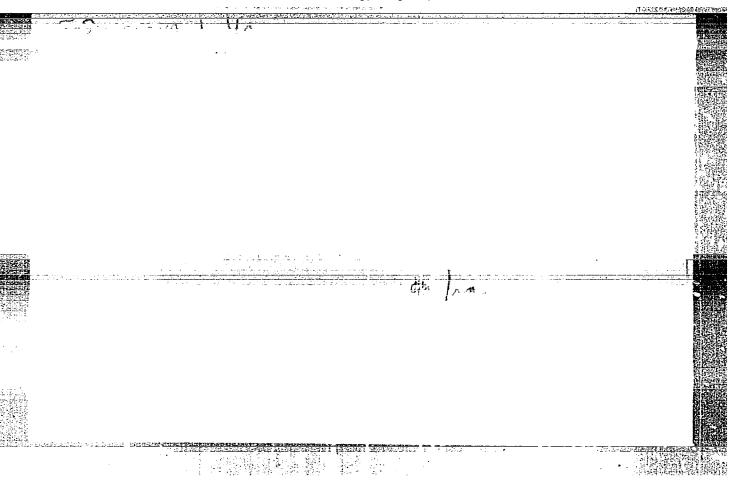
3, 141-145

Abstract

: No abstract.

Card 1/1

- 23 -



FEDCSEYEVA, M.A. (Dneprepetrovsk 59, prospekt Kirova,d.106,kv.22)

Abstracts. Ortop., travm. 1 protez. 25 no.11:65-66 N '64.

(MIRA 18:11)

1. Iz Kazanskogo instituta travmatologii i ortopedii (dir. - starshiy nauchnyy sotrudnik U.Ya. Bogdanovich). Submitted December 2, 1963.

FEDOSEYEVA, M.D.

USSR/Form Andmals - General Problems.

Q-1

Abs Jour

: No. Mun - Biol., No 13, 1993, 03307

Author

: Klimova, V.N., Lavrova, O.D., Rychkova, A.T., Fedosejuva,

li.D.

Inst

: Moscow Technological Institute of Meat and Dairy Indus-

bries.

Title

: The Carotene Content in Feeds of the Barybino Sovicion.

Orig Pub

: Sb. stud. rabot. Mosk, Velámol. in-t myasn. a molocha.

prom-sti, 1958, vyp. 5, 113-115.

Abstract

: No abstract.

Card 1/1

POPOVA, Ye.M.; DAYTER, A.B.; FEDOSEYHVA, M.F.

Leptospirosis infection in Pskov Province. Trudy Lem.inst.epid. i mikrobiol. 23:243-250 161. (MIRA 16:3)

1. Iz laboratorii osobo opasnykh infektsiy Leningradskogo instituta epidemiologii i mikrobiologii imeni pastera i otdela osobo opasnykh infektsiy Pskovskoy oblastnoy sanitarno-epidemiologi-cheskoy stantsii.

(PSKOV PROVINCE—LEPTOSPIROSIS)

М.

FEDOSEYEVA,

USSR/Cultivated Plants - General Problems.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15467

Author :

: V.Ya. Kompaneyets, M.P. Fedoseyova

Inst

: Leningrad Agricultural Institute.

Title

: The Effect of Subjecting Crop Seeds to Electrical

Discharge Before Sowing.

(Vliyaniye predposevnykh vozdeystviy elektricheskim razryadom na semena sel'skokhozyaystvennykh kul'tur).

Orig Pub

Zap. Leningr. s.-kh. in-ta, 1956, 12, 222-225

Abstract

: Research in the nature of a preliminary survey of the effect of electrical discharge on wheat and corn seed quality after harvesting was performed at the Leningrad Agricultural Institute in 1954-1955. Holding the seeds in an electrical field with 50 kw voltage for 40 seconds to 12 minutes increased termination by 15-20% and the wheat grain yield by 10-40%.

Card 1/1

11

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041272

ZAYEV, Petr Petrovich, kand.sel'skokhozyaystvennykh nauk; ZHEZHEL', Mikolay Grigor'syvich, doktor sel'skokhozyaystvennykh nauk; YENGRYEVA, Marianna Petroyna, kand.sel'skokhozyaystvennykh nauk; PETROV, M.P., red.; CHUMAYAVA, Z.V., tekhn.red.

[General agriculture] Obshchee zemledelie, Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 343 p. (MIRA 11:3)

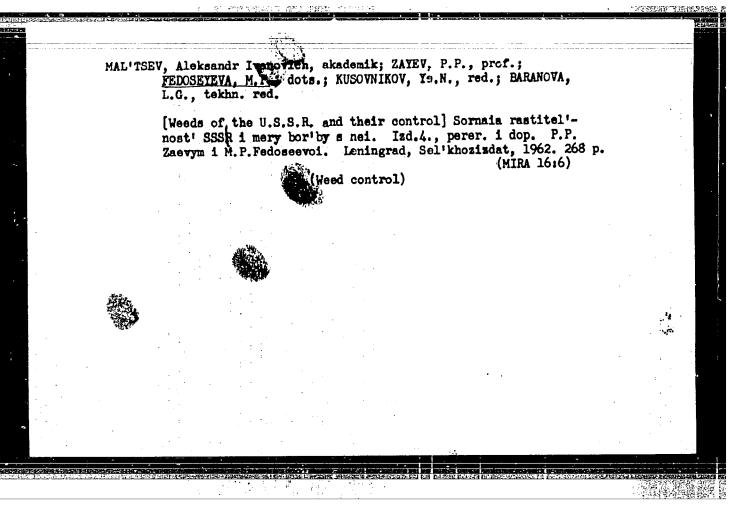
(Agriculture)

ZAYEV, Petr Petrovich, kend.sel'skokhos.neuk; ZHEZHEL', Mikoley Grigor'yevich, doktor sel'skokhos.neuk; FEDOSETEVA, Marianna
Petrovna, kend.sel'skokhos.neuk; IVASHKINA, L.A., red.;
GHUMATEVA, Z.V., tekhn.red.

[General agriculture] Obshchee semledelie. Izd.2., perer. i
dop. Moskva, Gos.izd-vo sel'khos.lit-ry, 1960. 367 p.

(Agriculture)

(Agriculture)



Effect of benzimidazole derivatives on the growth and development of cereal crops. Dokl. AN SSSR 146 no.1:236-237 S 162.  (MIRA 15:9)  1. Leningradskiy sel'skokhozyaystvennyy institut. Predstavleno akademikom A.L. Kursanovym.  (Benzimidazole) (Grain) (Growth promoting substances)	EFROS,	A.M.; FEDOSEYEVA, M.P.	
	;	of officer crops. Dori. An SSSR 146 no.1:236-237 S 162.	
			es Section

ZAYEV, Petr Petrovich, prof.; ZHEZHEL', Aleksandr Aleksandrovich, prof.; KOROTKOV, Aleksandr Aleksandrovich, dots.; FEDOSEYEVA, Marianna Petrovna, dots.; BELOVA, Zoya Väsil'yevna, prepodavatel'; GOKHNER, L.M., red.; BARANOVA, L.G., tekhn. red.

[General agriculture and soil science] Obshchee zemledelie s pochvovedeniem. [By] P.P.Zaev i dr. Moskva, Sel'khozizdat, 1963. 620 p. (MIRA 17:1)

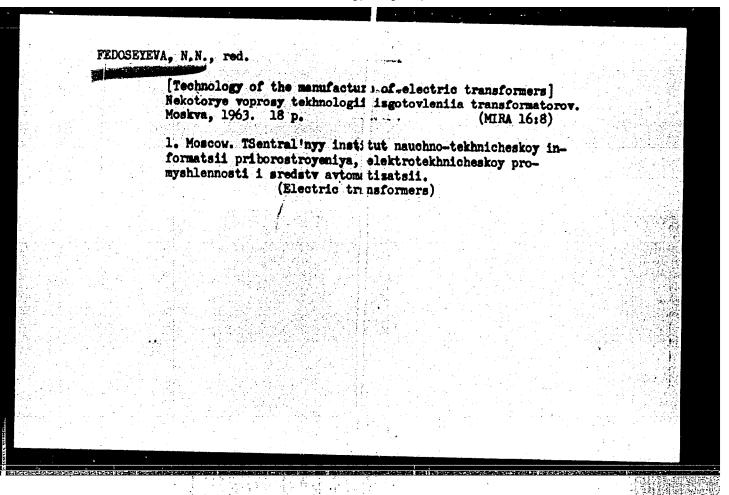
1. Anapskiy sel'skokhozyaystvennyy tekhnikum (for Belova).

[Materials of the 15th Conference on Electric Current Sources] Materialy Konferentsii po istochnikam toka.

Moskva, TSentr. in-t nauchno-tekhni, informatsii priborostroeniia, elektrotekhn.promyshl. i sredstv avtomatizatsii Pt.3. [Storage batteries] Akkumuliatory. 1962. 76 p.

(MIRA 17:4)

1. Konferentsiya po istochnikam toka, 15th.



ABAZA, S.A.; FEDOSEYEVA, N.N., red.

[Design of automatic welding machines; abstracts] Konstruirovanie avtomaticheskikh svarochnykh mashin; referativnaia informatsiia. Moskva, 1963. 19 p.

(MIRA 16:9)

1. TSentral'nyy institut nauchno-tekhnicheskoy informatsii i priborostroyeniya, elektrotekhnicheskoy promyshlennosti i sredstv avtomatizatsii.

(Electric welding-Equipment and supplies)

## ABAZA, S.A.; FEDOSEYEVA, N.N., red.

[Modern stamping methods and die sinking] Sovremennye metody shtampovki i izgotovlenie shtampov. Moskva, TSentr. in-t nauchno-tekhn. informatsii priborostroeniia, elektrotekhn. promyshl. i sredstv avtomatizatsii, 1963. 19 p.

(MIRA 17:4)

1. Russia 1923- U.S.S.R.) Gosudarstvennyi komitet po avtomatizatsii i mashinostroeniiu.

BEREZINA, L.S.; BOLDIN, R.V.; FEDOSEYEVA, N.N., red.

[Survey of new patents on electric storage batteries]
Obzor novykh patentov na elektricheskie akkumuliatory.
Moskva, TSentr. in-t nauchno-tekhn. informatsii priborostroeniia, elektrotekhn. promyshl. i sredstv avtomatizatsii, 1963. 43 p. (MIRA 17:7)

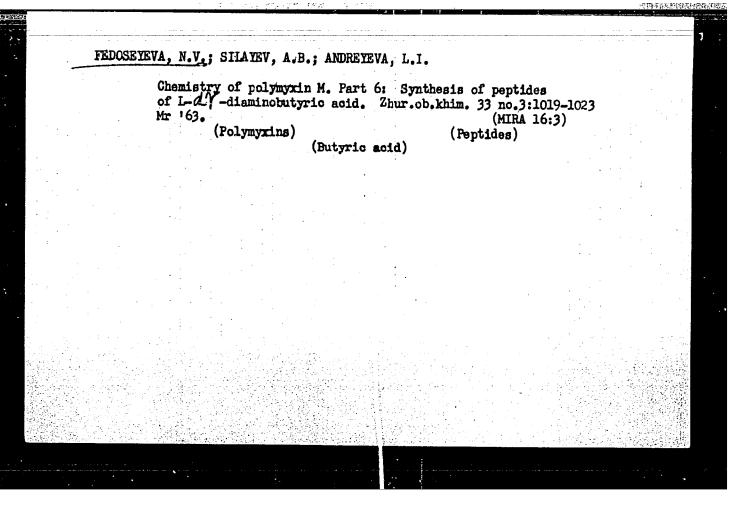
1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu.

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AUTEDRS: Pletaneva, N. A.; Fedomyeva, N. P.	7	
TEME: Effect of temperature on the diffusion of mercury in sinc		
SOURCE: AN SESR. Doklady, v. 151, no. 2, 1965, 384-387  TOPIC TAGS: mercury, minc, diffusion coefficient.	,	
ABSTRACT: Direct methods were used to determine the dependence on temperat of the coefficient of diffusion/of mercury in minu. The functional relation between the temperature and the coefficient of exchange (surface) diffusion is given by the figure in the enclosure. The paper was presented by Academ P. A. Rebinder on 30 March 1963. Orig. art. hus: 2 figures and 2 tables.	n ician	
ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Chemistry, Academy of Sciences SSSR)	Physical	
SUBMITTED: 28Mar63 DATE ACQ: 30Jul63 ENCL: 01  SUB CODE: PH, CH NC REF SOV: 005 OTHER: 001  Card 1/2/		

SILAEV; A.B. [Silayev, A.B.]; FROSENA, N.V. [Fedoseyeva, N.V.]; KATRUKHA, G.S., ANDREEVA, L.I. [Andreyeva, L.I.]; KOZLOV, L.V.

Preparation and preperties of some L-M, Y-diaminobutyric acid peptides. Coll Ca Chem 27 no.9;2240 S '62.

1. Moscow State University, U.S.S.R. (for Silaev and Fedoseeva).



## FEDOSEYEVA, N.V.; TELESNINA, T.R.; SILAYEV. A.B. Chemistry of polymyrin M. Part 7: Synthesis of peptides of L-d, Y-diaminobutyric acid. Zhr. ob. khim. 33 no.8:2760-2764 Ag. '63. (MIRA 16:11) 1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412720

FEDOSEYEVA, N. V.; SILAYEV, A. B.

"Synthesis and properties of control of the co

FEDOSEYEVA, N.V.; SIIA)EV, A.B.

Separation of DL-threonine into optical antipodes. Vest. Mosk.
un. Ser. 2: Khim. 20 no.1:69-70 Ja-F '65.

(MIRA 18:3)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412720

FEDOSEYEVA, O.P., Cand Chem Sci — (diss) "Study of the kinetics of ion exchange in tars and membranes." Mos, 1959, 11 pp (State Committe of the Council of Ministers for Chemistry.

Order of Labor Red Banner Sci Res Inst im L.Ya. Karpov)

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	5(2), (3) PRASE I BOOK EXPLOITATION SOY/2554 Akademiya nank 35R. Otdeleniye khimicheskikh nauk. Komissiya po	Isaledovaniya v oblasti ionoobacnoy, respredalitel hoy i osadochnoy kroastografi, (Studies in the Field of Ion Exchange, Distribution and Presiditation Chroastography Moscow, Isd-vo AN 833R, 150 p. Errate also Lissereda, 5,500 copies printed.	ublishing House: M.G. Yegoroy; Yech, Ed.: I.M. Ouseva, Fish Board: K.V. Chmitov, Corresponding Nember, USSR Academy Smose (Resp. Ed.); P.M. Shewyakin, Professor; K.M. Olibhanova, ssor; K.M. Saldadde, Doesn, and H.W. Tmitskiy, Professor	FURIOUS: Inis book is intended for chemists and chemical engineers.				Redorming w oblast; incoolemnt man 157 unior the stile "is- Field of Lon-exchange (Fronthogolam), Wo personalities in the tioned. Reference are given the property of the	Device A.r. and O.K. Lisovina. Ctudy of the articles. the Enchange Derry of Callots of Workstee With Malation.	Redlinakit, W.K. Theory of the Stationary Pront of Pro-	Effect of the louite	Minetics of Cation Exchange	ification of Salts With the Castallation			You will be the training of the training of the property of the between the training p.m. or some training of the training p.m. or the training the training the training the training training the training training the training t	Hitselvakiv. E.S. and P.M. Shryakin. Some New Thencesa		Precipitation Chromato.	Secondary Thenomena in	Determination of Calcium	Ion-exchange Paper	od of Qualitative Analysis	ption of	plez Eine	
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5(4) AUTHORS:

Fedoseyeva, O. P., Cherneva, Ye. P., Tunitskiy, N. N.

TITLE:

Investigation of the Kinetics of Ion Exchange Sorption (Issledovaniye kinetiki ionoobmennoy sorbtsii).II. Kinetics of Exchange With Participation of Hydrogen Ions (II. Kinetika obmena s uchastiyem vodorodnykh ionov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 4, pp 936-942

ABSTRACT:

The investigation under review deals with the process of the complete cation exchange and limiting cases of the exchange — the self-diffusion and diffusion of ions of microcomponents in the resin — of various cation forms. In the case of a complete exchange the investigation concerned the initial as well as the end stage at which one of the exchanging cations was present in a small quantity. The effective diffusion coefficients (DC), that were computed for this case, were compared with the (DC) for the ions of the microcomponents. To simplify calculations the authors investigated along with the full exchange in the resin, the exchange of the cations in cation exchanger membranes (from sulphurized polystyrene

Card 1/47

SOV/76-33-4-28/32

Investigation of the Kinetics of Ion Exchange Sorption. II. Kinetics of Exchange With Participation of Hydrogen Ions

resin). In fact, when exchanging cations of different mobilities through the membrane, an electric field is generated (as in the case of the complete exchange in resin), which can be measured. The kinetics of the cation exchange was investigated on polystyrene resins with various contents (high, normal, low) of divinyl benzene. The kinetic experiments took place at 19-20°. Under investigation were monovalent cations in 0.165 n and bivalent cations in 0.25 n and 1 n solutions. An adsorption or desorption method was applied, with use of the isotopes Na<sup>24</sup>, Rb<sup>86</sup>, Sr<sup>89</sup> and Ca<sup>45</sup>. The above mentioned membranes contained 70% of resin KU-2 and 30% divinylbenzene. It was observed (Fig 1) that the quickest exchange is that of H+-ions from the resin with Na+-ions of the solution, and the slowest is the diffusion of the ions of the microcomponents of sodium in the resin (in the H-form). Values are given of the effective (DC) for the exchange between the Na and H in the resin (with lower

Card 2/4

SOV/76-33-4-28/32 Investigation of the Kinetics of Ion Exchange Sorption. II. Kinetics of Exchange With Participation of Hydrogen Ions

divinylbenzene content) (Table 1), as well as the (DC) of Na<sup>+</sup> being found in microsmounts in the resin (Table 2), and it proceeds therefrom that the complete exchange between Na<sup>+</sup> and H<sup>+</sup> takes place with a higher effective (DC) than are the (DC) of the ions of the microcomponents of sodium, which diffuse in resin (in the H-form). The same also holds for rubidium. The effective (DC) increase with a decrease in the relative content of H-ions in the resin which is explained by an anomalously greater nobility of the H-ions in the resin. The ions Na<sup>+</sup>, Ca<sup>+</sup> and Ce<sup>+</sup> were investigated on the cation exchanger membrane. It was observed that (Fig 4) the effective (DC) increase with the decrease of the relative content of H-ions in the solution. There are 6 figures, 2 tables, and 7 references, 1 of which is Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moskva Card 3/4 (Physico-chemical Institute imeni L. Ya. Karpov, Moscow)

5(4)

AUTHORS: Fedoseyeva, O. P., Tunitskiy, N. N. (Moscow)

TITLE: Investigation of the Kinetics of Ion Exchange Sorption (Issledevaniva kinetiki ionschronger contact)

dovaniye kinetiki ionoobmennoy sorbtsii). 3. Complete Exchange Between Univalent and Bivalent Ions in Resins (3.Polnyy obmen mezhdu odnovalentnymi i dvukhvalentnymi ionami v smolakh)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5, pp 1140 - 1146 (USSR)

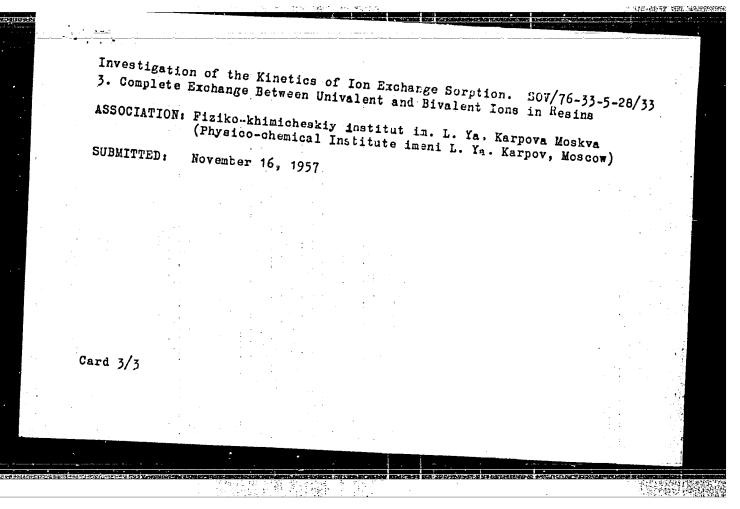
ABSTRACT: The process mentioned in the title was investigated on the cation exchanger KU-2. The limiting cases of self-diffusion and the diffusion of the ion microcomponents with various cation occupation of the exchanger were measured together with the total exchange. Figure 1 shows the dependence of the diffusion coefficient for strontium on the composition of the resin containing Sr and H ions (upper curve) and Sr and Na ions (lower curve). The diffusion coefficients of the Sr ions show a linear dependence on the composition of the solution. The diffusion proceeds faster in resin containing H and Na ions than in resin containing Sr ions only. Table 1 shows the results of the experimental series carried out in order to

Investigation of the Kinetics of Ton Exchange Sorption. SOV/76-33-5-28/33. Complete Exchange Between Univalent and Bivalent Ions in Resins

determine the diffusion coefficients of the ion microcomponents and the coefficients of self-diffusion. Hence it appears that univalent and bivalent ions diffuse faster in a resin containing univalent ions than in a resin containing bivalent ions. This dependence can be explained to some degree by the different swelling capability of the resin containing univalent and bivalent ions (Table 2). The swelling capability depends more on the cation occupation of the resin than on the concentration of the swelling solution. Figures 2-4 show the results of the investigation of the exchange between univalent ions (Na+ and H+) and bivalent ions  $(Ca^{2+}$  and  $Sr^{2+})$  as well as the curves of the total exchange, the self-diffusion and the diffusion of the ion microcomponents. In all cases, the self-diffusion of the sodium ions was the fastest, that of the strontium ions the slowest process. Figures 5 and 6 compare the kinetics of the exchange of Sr ions from the resin for H ions from the solution with the exchange for Na ions from the solution. There are 6 figures, 2 tables, and 4 references, 2 of which are Soviet.

Card 2/3

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041272



38027 E S/181/60/002/C10/037/051 B104/B205

26 5/d

Gliberman, A. Ya., and Fedoseyeva, O. P.

TITLE:

Study of the effect of the crystallographic orientation of silicon upon the properties of photo-converters

PERIODICAL: Fizika tverdogo tela, v. 2, no. 10, 1960, 2585 - 2588

TEXT: The use of polycrystalline silicon as a starting material for the production of ordinary photo-converters and of monocrystalline photo-converters with large areas calls for a study of the effect of crystal orientation upon the quality of photo-converters. Silicon crystals were cut in plates parallel to the three principal crystallographic axes (111), (110), and (100). Nickel coatings applied to the contact faces made the contact resistance of 0.1 ohm independent of the crystal orientation. Photocells made of silicon plates of different orientation were all made as follows: Phosphorus was allowed to diffuse from the gaseous phase in p-type silicon and, at the same time, boron from the solid phase into n-type silicon plates. The depth of the position of the p-n junction in plates of different orientation was determined through coloration of a

Card 1/4

S/181/60/002/010/037/051 B104/B205

Study of the effect..

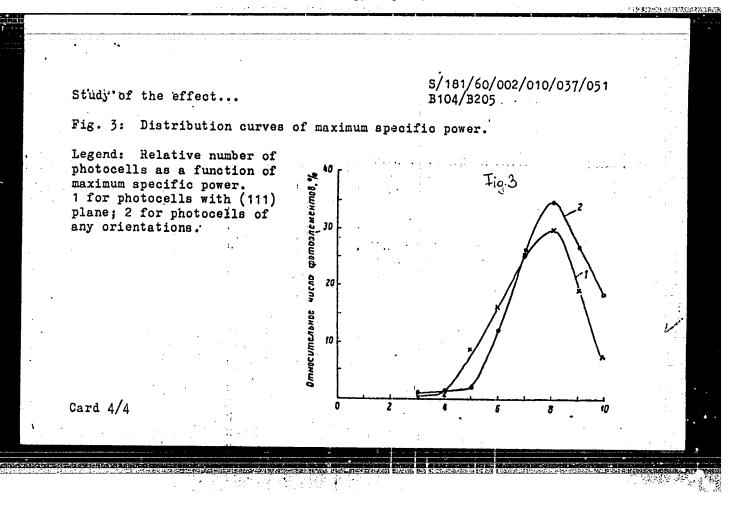
diagonal cut, and was found to be equal for all silicon plates, irrespective of their orientation (error in measurement, ± 10 %). All grains of polycrystalline plates showed equal depth for all p-n junctions. The volt-ampere characteristics of photocurrent and dark current were determined for the photocells. The volt-ampere characteristics obtained for both n-type and p-type silicon photocells were found to be in good agreement for all three directions ( 111, 110, 100)). The data presented further indicate that maximum power, series resistance, short-circuit current, and open-circuit voltage are nearly equal for photocells of different orientation. This is evidence to the fact that the quality of photo-converters does not depend on the crystallographic orientation. curves shown in Fig. 3 resulted from measurements of a large number of photocells. In this figure, the relative numbers of photocells are represented as a function of the specific power for photocells with the (111) plane (curve 1) and for photocells of any orientations (curve 2). The good agreement between the curves, obtained for different numbers of photocells, prove that the quality of photo-converters is independent of the crystallographic orientation. T. M. Golovner is thanked for making the X-ray diffraction measurements. There are 3 figures, 1 table, and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The two references to Card 2/4

S/181/60/002/010/037/051
B104/B205

English-language publications read as follows: C. W. Mueller,
N. H. Ditrik, RCA Riv., no. 1, 1957; M. V. Sillivan, J. H. Eigler, J.
Electrochem. Soc., 104; no. 4, 226, 1957.

SUBMITTED: February 8, 1960

Card 3/4



33946 5/665/61/000/003/010/018 E194/E420

26.1512

AUTHORS:

Zaytseva, A.K., Fedoseyeva, O.P.

TITLE:

An investigation of the possibility of using silicon photo-energy convertors with double sided working

surfaces

SOURCE:

Akademiya nauk SSSR. Energeticheskiy institut. Teploenergetika. no.3, 1961. Poluprovodnikovyye

preobrazovateli solnechnoy energii. 87-90

The silicon used in photo-energy convertors is expensive so it is desirable to obtain the maximum power per unit weight of Within the limits this may be achieved by reducing the thickness but another approach is to use both sides of the material, one illuminated by direct sunlight and the other by reflection. There is no special difficulty in making double sided photo-elements; they differ from the normal ones only in that after the silicon has been coated, one side is ground leaving a narrow strip on one edge, on which the rear contact is deposited. The remaining unground part of the plate is thus a working surface which forms a unit with the working surface of the opposite side, Card (1/3

33946

s/665/61/000/003/010/018

An investigation of the possibility ... E194/E420

For the present work, photo-elements were made of silicon with various values of specific resistance ranging from 0.1 to The photo elements were illuminated on one side by a lamp and on the other side by light reflected from the lamp by a Data obtained on illuminating double sided plane mirror, elements from both sides were compared with the controlled results As the specific resistance of the for single sided elements. initial silicon was increased the efficiency of the double sided elements fell from 5.2 to 2% whereas the efficiency of the single sided cells was about 6 to 8%, irrespective of the resistivity of the silicon. The reduction in efficiency of the double sided element results from reduction in the shortcircuit current density and in the no-load voltage because of a considerable increase in the series resistance of the double sided element. This is about 1 ohm in the case of a single sided element whereas with the double sided elements it ranges from 4 ohms with the silicon of lowest resistance to 15 ~ 22 ohms f ... high resistance silicon. This series resistance is high in the double sided cells because of the length of the path of current Card 2/3

33946 S/665/61/000/003/010/018 An investigation of the possibility ... E194/E420

carriers in the lower layer of the silicon base to the rear contact and because of the reduction in the cross-section available to current carriers. When the double sided elements were illuminated from one side they were not so good as the single sided elements. However, when they were illuminated from both sides the power per unit area of silicon plate was greater than that of the single sided elements by a factor of 1.2 to 1.3, provided that the specific resistance of the silicon was not greater than 0.1 to 0.2 ohms cm. Double sided elements of silicon with resistance of 0.5 to 1 ohm cm are always worse than the corresponding single sided elements. Consequently, double sided elements should only be made of low resistance silicon and of small dimensions. The increase in output is appreciable in large installations and it may be desirable to use double sided elements in particular cases; further study of the subject of rear reflectors is indicated. There are 1 figure, 1 table and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref.1: Prince M. J. Appl. Phys. No.26 (5), 1955, 534.

Card 3/3

1,1095

S/058/62/000/008/128/134 A160/A101

V6 VYV/ AUTHORS:

Zaytseva, A. K., Fedoseyeva, O. P.

TITLE:

An investigation of the possibility of using silicon photoconverters with a double-sided effective area

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 8, 1962, 43, abstract 8-3-86b (In collection: "Tepldenergetika", no. 3, Moscow, AN SSSR, 1961,

87 - 90)

TEXT: In silicon photoconverters, which are now being produced, only one effective side of the plate with a coated layer of p or n-type base silicon is used. The non-effective side of this plate has a solid metal slip-ring rearwall contact. To obtain a greater power per weight unit of Si, an investigation was carried out of the possibility of using silicon photoconverters with a double-sided effective surface. In this case, after diffusing the impurity in the base Si, one of the sides of the plate is ground-off, i.e. not completely, but in the form of a narrow strip to which a rear-wall contact is applied. The remaining unground part of the plate is also an effective area of the photo-

Card 1/2

An investigation of the...

S/058/62/000/008/128/134 A160/A101

converters. A description is given of the designs, the diagrams of connecting the loads and of the commutation of one-sided and double-sided photoconverters. During the testing of one-sided and double-sided photoconverters, it was determined that the efficiency of the two-sided photoconverters decreases with increasing specific resistance  $\rho$  of the initial Si from 5.2% to 2%. The efficiency of one-sided photoconverters did not depend on  $\rho$  and amounted to  $\sim 6$ - 8%. A decrease in the efficiency of the double-sided photoconverters is caused by a sharp increase of their resistance in series effected by an increase of its rear-wall component. The power taken per area unit of double-sided photoconverters from Si with  $\rho \leqslant 0.1$  - 0.2 ohm.cm during the illumination of both sides was 1.2 - 1.3 times higher than in one-sided photoconverters. There are 2 references.

V. Shch.

[Abstracter's note: Complete translation]

Card 2/2

s/665/61/000/003/011/018 E039/E420

26.152

Gliberman, A.Ya., Fedoseyeva. O.P.

TITLE 1

**AUTHORS**:

An investigation of the factors influencing the series

resistance and other parameters of silicon photo-

converters

SOURCE &

Akademiya nauk SSSR. Energeticheskiy institut. Teploanergetika. no.3, 1961. Poluprovodnikovyye

preobrazovateli solnechnoy energii. 91-99

TEXT: The maximum power yield from silcion photoconverters is largely defined by the value of its series resistance  $R_{\overline{\rm P}}$  , which is the sum of the base resistance  $R_{T}$  and the alloy layer resistance  $R_{D}$ 

$$R_{\Pi} = R_{T} + R_{p} \tag{1}$$

The value of the layer resistance for a rectangular photo-converter with a current carrying contact on one edge of the working surface is given by

$$R_{p} = \frac{\rho W}{2tL} \tag{2}$$

Card (1/4)

\$/665/61/000/003/011/018 E039/E420

An investigation of the factors ...

where p - specific resistance of the alloyed layer; between the contact and the opposite side of the photoelement; Both  $R_{T}$  and  $R_{p}$  are small - in the usual photo-converter. The sim of the present work was to determine the two components of the series resistance and to show the relationship between them as a function of various factors. It is assumed that the layer resistance is defined by Eq. (2) and that the base resistance is inversely proportional to the area of the element  $R_{T} = \frac{R_{T}^{T}}{S}$ 

(3)

is the base resistance for unit area of photoelement, where henes

$$R_{\Pi}S = \frac{p w^2}{2t} + R_{T}^{\text{M}}$$
 (5)

where Wt = S - the area of the photoelement. Card 2/4

S/665/61/000/003/011/018 E039/E420

An investigation of the factors ...

Experiments were carried out with rectangular photoelements of area 10 to 16 cm². The dependence of the series resistance on the width W of a series of photoelements was obtained. It is shown that  $R_{\parallel}$  does not change appreciably for values of W from 2 to 4 cm but it rises sharply when W is less than 1 cm. As  $\rho$ , t, k,  $R_{\rm T}^{\rm poly}$  are independent of W, then the series resistance

$$R_{\overline{W}} = AW + \frac{B}{W} \tag{6}$$

where 
$$A = \frac{B}{2tL}$$
 and  $B = \frac{RT}{L}$ 

This indicates a linear dependence of the layer resistance  $R_p$  on W, and that the base resistance  $R_T$  follows a hyperbolic law. The experimental results confirm this. The dependence of the effeciency on the width W was also investigated for photoconverters with different specific resistances. The optimum efficiency ( $\approx 5\%$ ) occurred at W = 0.5 to 1.5 cm and decreased steadily as W was increased further. Data was obtained on the Card 3/4

33947

S/665/61/000/003/011/018 E039/E420

An investigation of the factors ...

change in maximum power yield with W. It was shown that the yield rises to a maximum at W=1 to 3 cm, after which it levels off as W is increased. In addition, the effect of changing the length b while keeping W constant was investigated. We have

where:

$$R_{\prod} = \frac{C}{L}$$

$$C = \frac{\rho W}{2t} + \frac{RT}{W} = const$$
(7)

The experimental results confirm the hyperbolic form. It is shown that the efficiency is independent of the length while the power yield is proportional to it. There are 9 figures, 2 tables and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref.1: Prince M. J. Appl. Phys. no.26 (5), 1955.

Card 4/4

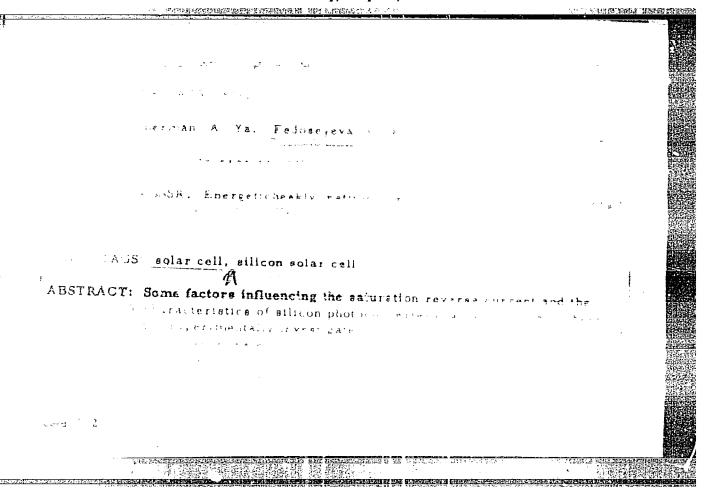
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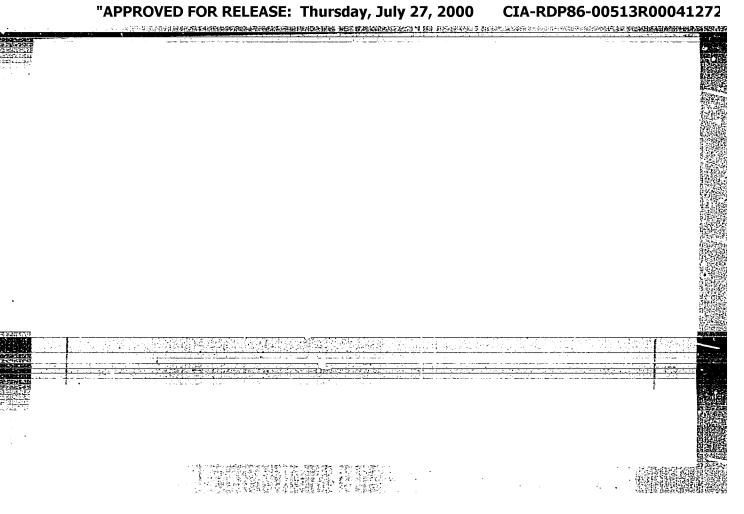
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and is independent of the res	٠.
ABSTRACT: The results of an experimental investigation of backing allows onverters (solar cells) with a resisting.	ત
AGS: solar cell, silicon solar cell	,
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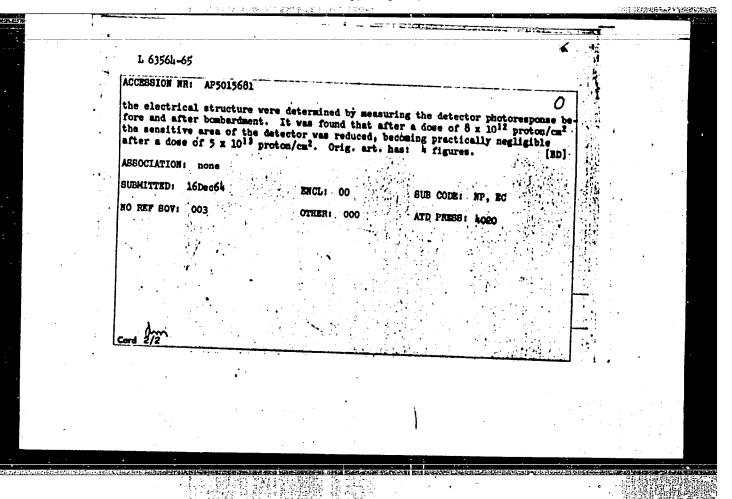


### CIA-RDP86-00513R00041272



ACCESSION NH: AP50  AUTHOR: Brykina, I B. P. Fedoseyeva,  TITLE: The effect radiation. II. Di  SOURCE: Kosmichesh  TOPIC TACS: Semico silicon N I P detect	of high-energy protons of fruston-drift detectors in the instance of the insta	UR/0293/65/00 621.376.234;5 lovin, B. M.; Landsman, / semiconductor detectors no. 3, 1965, 499-502 radiation, diffusion dr with 0.3-mm sensitive fi	3/003/0499/0502 39.12  19.12  19.12  19.10  19.10  19.10  10.10	
proton/cm²-sec with investigation was a resolution, and dete show that the immum that of the surface	ade of detector output proctor capacitance as a fur ity of the diffusion-drift	proton/cm <sup>2</sup> . With the ilse height, reverse curr iction of the radiation of t detectors is approxima	0.3-m type, ent, energy lose. The resul- itely equal to	
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proton/cm <sup>2</sup> -sec with investigation was m resolution, and dete show that the immum that of the surface was observed for do	ade of detector output proctor capacitance as a fur ity of the diffusion-drift	proton/cm <sup>2</sup> . With the ilse height, reverse curr iction of the radiation of t detectors is approxima	0.3-m type, ent, energy lose. The resul- itely equal to	

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041272



L 27774-66 ENA(h)/ENT(1)/ENT(m)/ENP(t)/EII 1JP(c) JD

ACC NR: AP6012445 SOURCE CODE: UR/0292/65/000/012/0044/0047

AUTHOR: Gliberman, A. Ya. (Candidate of technical sciences); Fedoseyeva, O. P. (Candidate of chemical sciences)

ORG: none

TITLE: Effect of the back-contact quality on the operating characteristics of silicon photoconverters

SOURCE: Elektrotekimika ho. 12, 1965, 44-47

TOPIC TAGS: photoconverter, photocell

ABSTRACT: The results are reported of an experimental study of the effect of temperature (within -70 +80C) on the short-circuit current, no-load voltage, resistance, and efficienty of p-Si devices. All parameters were calculated from light 1-V characteristics. The characteristics were measured of photoconverters with two-types of back contact: (a) conventional, produced by chemical deposition of Ni and subsequent firing-on and (b) improved by boron-alloying of Si and then Ni plating and firing-on. With the improved back contact, the temperature coefficient of no-load voltage was 0.00236 v per 1C; the efficiency was higher than that of conventional devices and linearly increased with decreasing temperature; the short-circuit current linearly decreased with temperature (2.01 x 10-8 amp/cm² per 1C).

Card 1/2

UDC: 621.383.62-555.56/67/001/24

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BRYKINA, L.S.; GOLOVIN, B.M.; LANDSHAIN, A.P.; GOSPIENKO, B.F.; FERCEYEVA, O.P.

Action of high-energy protons on semiconductor detectors of nuclear radiations. Kosm. 1ssl. 2 no.4:623-627 JI-Ag 164.

(MIRA 17:9)

S/137/62/000/012/004/085 A006/A101

AUTHORS:

Larionova, D. S., Fedoseyeva, R. K.,

TITLE:

Non-metallic inclusions in vacuum-remelted bearing steels

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 44 - 45, abstract 12V282 ("Tr. N.-i. i eksperim. in-ta podshipnik.

prom-sti", 1960, 1 (21), 55 - 68)

TEXT: The authors investigated the quality of MX15 (ShKh15) grade steel, grade 3M 906 (E1906), 3M 907 (E1907), 3M 908 (E1908) stainless and grade 3M 3M7 (E13M7) and 3M9MM (E19MM) scale-resistant steels, produced by vacuum arc-remelting. It was established that vacuum ball-bearing steel MX 15 (ShKh15) is of higher purity in respect to non-metallic impurities than steel melted by conventional methods. In vacuum arc-remelting of ShKh15 steel, the amount of oxide and silicate inclusions is, in particular, considerably reduced. Sulfide and globular inclusions in this steel decrease to a lesser degree. In vacuum arc remelting of stainless and scale-resistant steels their refining from Al-inclusions proceeds more effectively than for ShKh15 steel. Vacuum arc remelting does not

Card 1/2

#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041272

Non-metallic inclusions in...

S/137/62/000/012/004/085
A006/A101

reduce the amount of nitridic inclusions in the steel. There are 13 references.

A. Savel'yeva

[Abstracter's note: Complete translation]

8/277/63/000/001/006/017 A052/A126

AUTHORS:

Larionova, D. S., Vlasova, R. A., Fedoseyeva, R. K.

TITLE:

Some technological properties of vacuum bearing steel

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 48. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin, no. 1, 1963, 6, abstract 1.48.43 ("Tr. N.-i. i eksperim. in-ta podshipnik.

prom-st", v. 1(21), 1960, 69 - 79)

The effect of the vacuum are remelting of MIX 15 (ShKh15) steel on TEXT: its technological properties: annealability, hardenability, tendency to austenitic grain growth, the amount of residual austenite after hardening, and machinability was investigated. Further, the corrosion resistance of vacuum steel was investigated. The annealability of steel after vacuum remelting depends directly on the annealability of the initial metal. The degree of annealability of ShKh15 vacuum steel compared with the initial metal, at a considerably lower reduction of vacuum steel blanks, is a little lower than that of the initial steel. The amount of residual austenite in vacuum steel at equal hardening tem-

Card 1/2

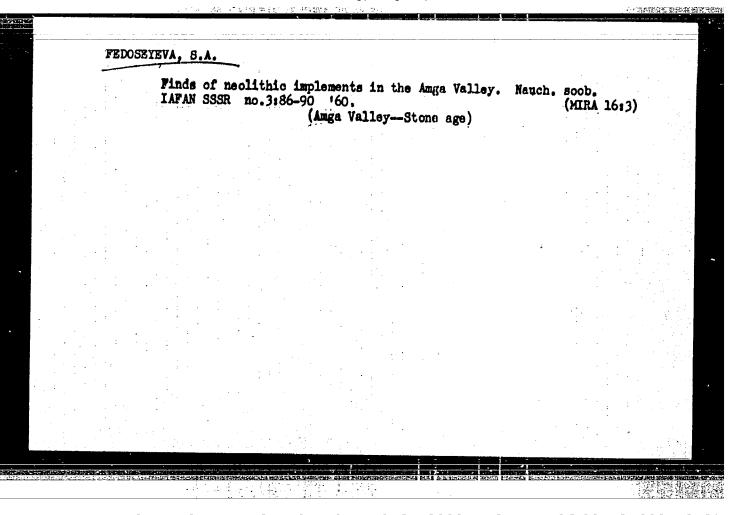
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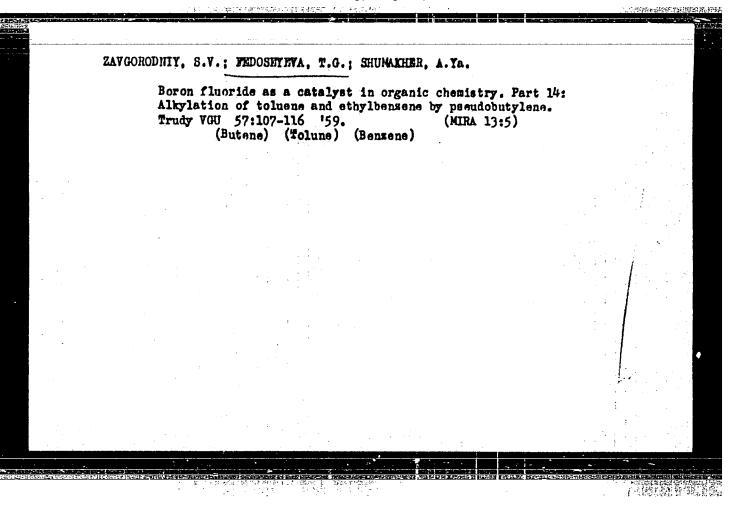
Some technological properties of vacuum bearing steel

peratures is a little lower than in the initial metal. In respect of machinability the vacuum remolten steel does not differ essentially from the steel molten by means of a conventional technology. When producing bearing elements from vacuum steel, a 13 - 14 class working surface finish can be achieved which is difficult to achieve when producing elements from conventionally molten steels. The corrosion-resistance of ShKn15 vacuum remolten steel is higher than that of a common steel.

[Abstracter's note: Complete translation]

Card 2/2





MOTYLEV, Yu.L., kend. tekhn. nauk; ZALESSKIY, Ye.P., prof.; KALYUZHNYY, I.S., kand. sel'khoz. nauk; AZIZOV, A.A., mlad. nauchnyy sotr.; POLETAYEV, A.V., kand. khim. nauk; AERUTSKAYA, Te.G., mlad. nauchnyy sotr. Prinimali uchastiye: BUTLITSKIY, Yu.V., mlad. nauchnyy sotr.; FENGEYEVA, T.I., mlad. nauchnyy sotr.; BIRUL',A.K., prof., doktor tekhn. nauk, retsenzent; ZVERINSKIY, G.I., insh., retsenzent; KOVALEV,.G., insh., retsenzent; BASIN,M.M.,insh., retsenzent; DEBERDEYEV, B.S., red.; DONSKAYA, G.D., tekhn. red.

[Stability of earth roadbed and road mats in regions with artificial irrigation] Ustoichivost' zenlianogo polotna i dorozhnykh odezhd v raionakh iskusatvennogo orosheniia. [By] IU.L.Motylev i dr. Koskva, Nauchno-tekhn.izd-vo M-va avtorooil'nogo trensp.i shos. dorog RSFSR, 1961. 178 p.

(Uzbekistan-Road construction) (Uzbekistan-Irrigation)

MOTYLEV, Yu.L., kand. tekhn.nauk; BUTLITSKIY, Yu.V.,mlad. nauchn. sotr.; STUPAKOVA, L.F., ml. nauchn. sotr.; FEDNSEYEVA, T.L., ml. nauchn. sotr.; SHUL'GINA, V.P., kand. tekhn.nauk; IVANOV, N.N., prof., doktor tekhn. nauk, retsenzent; BEZRUK, V.M., doktor geol.-miner. nauk, retsenzent; KOVRIZHNYKH, L.P., red.; BODANOVA, A.P., tekhn. red.

[Investigating the stability of a saline-soil roadbed] Is-sledovaniia ustoichivosti semlianogo polotna iz zasolennykh gruntov. Moskva, Avtotransizdat, 1963. 115 p.

(MIRA 16:8)

(Road construction) (Soil mechanics)

L 10628-65 ENT(a)/ENP(b) Pad RAEM(t) JP/EN
ACCESSION NR: APLOL7647 5/0189/64/000/005/0069/0073

AUTHORS: Panteleymonov, L. A.: Khanna, A. Vu.: Solvier, I. G.:

TITLE: The nature of the transitions in solid solution on a base of MicSba

SOURCE: Moscow. Universitet. Vestnik. Seriya 2. Khimiya, no. 5, 1964, 69-73

TOFIC TACS: nickel alloy, antimony, solid solution, phase transition/RED 57 x ray camera

ABSTRACT: The authors studied transitions in NI-Sb alloys by means of differential thermal analysis, x-ray analysis, Vickers hardness, microstructure, density, and specific volume. The alloys were prepared in a high-frequency furnace in an atmosphere of He with total impurity content below 0.016%. A polymorphous transition was noted at 890°. At 525° with 27.25% Sb and at 540° with 329 Sb, the compound exhibite decomposition. The curve of Vickers margness for Ni-Sb compounds has times breaks, at 23.5, 26.25, and 29.25% Sb, and two minimums at the first two Sh walles. NicSb2 corresponds to the argment of 20.25-29.25% Sb. Etching revealed that the autectoid with 27% Sb formed delta solid solution on the base of Nil Sb1. Cond. 1/2

L 10628-65 ACCESSION NR: AP4047647 and beta on NicSb2. NicSb2 corresponds to a well-defined liw on the specific grav ity curve and to a maximum on the specific volume curve. I ray powder photographs, made with an RKD-57 camera using unfiltered copper radiation, indicate a single crystalline phase in annealed samples, with a tetragonal lattice having call constants of a = 8.766 Å, c = 12.535 $_{\rm o}$ Å, and c/a  $_{\rm f}$  1.113. Samples heated at 1050 have a nexagonal lattice with c = 9.3 A, a = 3.55 A, and c/a = 2.616. Orig. art. has: 6 figures. Hoskovskiy universitet (Moscow University) ASSOCIATION: SUBMITTED: 03Mar64 ENCL 00 SUB CODE: SS, MM NO REF SOV: OTHER: 001 Card

#### FEDOSEYEVA, T.P.; KHMELEVA, N.V.

Influence of natural conditions and the use of land for farming on the erosional processes of the Orel-Samara interfluve. Vest. Mosk. un. 3er. 5: Geog. 20 no.1:19-26 Ja-F '65. (MIRA 18:3)

1. Kafedra geomorfologii i kafedra ekonomicheskoy geografii SSSR Moskovskogo universiteta.

S/020/62/146/003/013/019 B101/B144

AUTHORS:

Kuz'minskiy, A. S., Neyman, M. B., Fedoseyeva, T. S., Lebedev, Ya. S., Buchachenko, A. L., Cherthova, V. F.

TITLE:

Conversions of free radicals in gamma-irradiated polyiso-

prenes

PERIODIAL: Akademiya nauk SSSR. Doklady, v. 146, no. 3, 1962, 611-614

TEXT: The initial stage of cis- and trans-polyisoprene structuration caused by 10-50 Mrad Co<sup>60</sup> irradiation was studied. The appearance and disappearance of free radicals was ascertained by recording the epr spectrum. An epr spectrum with a signal width of 14 cersteds was observed on trans-polyisoprene after irradiation at room temperature in vacuo. The structure of the radical causing this signal could not be clarified; probably it was formed by separation of a hydrogen atom from the α-methylene group. At -196°C, irradiated trans-polyisoprene showed a broad singlet due to superposition of various radical spectra. If air was admitted to the ampoule at room temperature, the spectrum passed over into a peroxide spectrum. No epr spectrum appeared in cis-poly-Card 1/3