FILATOV, B.S.; MAKURIN, N.S.; GAO LU-LIN' [Kao Lu-lin]; EAZHENOV, V.S.; BURNOV, Ye.S., red.

[Drilling wells using surfactants and serated liquid]
Burenie skwazhin s primeneniem poverkhnostno-aktivnykh
veshchestv i serirovannoi zhidkosti. Moskva, 1962. 48 p.
(MIRA 17:4)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.

ZHVANETSKIY, Ye.F., red.; FILATOV, B.S., red.; ISAYEVA, V.V., ved. red.; VORONCVA, V.V., tekhm. red.

[Fluids for drilling wells; transactions of the interrepublic conference in BakulPromyvochnye rastvory dlia bureniia skvazhin; trudy mezhrespublikanskog soveshchaniia v Baku. Moskva, Gostoptekhizdat, 1962. 291 p.

(NIRA 15:9)

(Oil well drilling fluids)

LATYPOV, E.K.; FILATOV, B.S.

Installation for hydrodynamic studies of mon-Newtonian fluids. Izv. vys. ucheb. zav.; neft' i gaz 5 no.3:85-90 '62. (MIRA 16:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennost¶imeni akademika I.M. Gubkina.

FILATOV, Boris Semenovich; MAKURIN, Nikolay Stepanovich;
ARRAMSON, Mikhail Grigor'yevich; KIRSANOV, Arkadiy
Ivanovich; ISAYEVA, V.V., ved. red.

[Air drilling of exploratory holes] Burenie geologorazvedochnykh skwazhin s produvkoi vozdukhom. [By] B.S.Filatov
i dr. Moskva, Nedra, 1964. 247 p. (MIRA 17:9)

VOTOKITTERKOV, A.A.; BALLININ, A.G.; MARSAREVA, T.S.; FILITOV, B.S.

Using plastics to control cir lation loss and water inflow in oil well drilling. Izv. vys. ucheb. zav.; geol. i azv. 7 no.9:114-122 S *64. (MIRA 17:10)

1. Moskovskiy geologorazwedochnyy institut imeni Ordzhonikidze.

KOSHKO, 1.1.: FILATOV, B.S.; SURKOVA, A.P.

Air drilling for seigmic prospecting. Razved. 1 okh. nctr.
30 no.11:54-58 N '64.

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskey i gazovoy promyshlennosti imeni akademika I.M.Gubkina.

LEONOV, Ye.G.; FINAT'YEV, Yu.P.; FILATOV, B.S.

Pressure losses in casing space. Neft. khoz. 43 no.9:12-17 S '65.

(MIRA 18:10)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413020011-9

WH/GD EWT(1)/EWT(m)/EWP(e)

ACC NRI

AT6022334

UR/0000/66/000/000/0005/0006 SOURCE CODE:

AUTHOR: Filatov, D. I.

ORG: None

oscillator with low noise level TITLE: A quartz'

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya radioperedayushchikh ustroystv. Doklady. Moscow, 1966, 5-6

TOPIC TAGS: quertz, crystal oscillator, signal modulation, signal to noise ratio

ABSTRACT: The author studies the effect which various disturbing processes have on the signal quality of a quartz generator. It was found that the intensity of phase fluctuations is affected basically by interference from flicker effect in the tubes, noises (pulsations) in the supply voltages, mechanical vibrations, acoustic effects and the magnetic fields of power sources. Standards for permissible levels of mechanical vibrations, acoustic effects, magnetic fields and supply voltage noises were established by determining the modulation characteristics for the quartz generator. The effects of the first three factors were eliminated by using stabilized power supplies with less than 100 $\mu\nu$ side component and noise level in the 6 cps band at analysis frequencies of 10 cps and higher, and also by

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ACC NR: AT6022334

simple structural modifications (vibration damping and shielding). Thus it was found that phase fluctuations in the quartz oscillator could be easily reduced to the level determined by flicker effect alone. The following formula is given for the spectrum of phase fluctuations in the quasistatic approximation:

$$S\Phi(F) = \frac{f^2\alpha^2}{F^2Q^2} S\Phi(F),$$

where f is the oscillator frequency, F is the modulation frequency, Q is the static figure of merit for the quartz oscillator $S\Phi(F)$ is the flicker effect in the oscillator tube and $\alpha \approx 30$ is a factor which depends on operating conditions. The maximum figure of merit for industrial quartz resonators is presently $(1-3)\cdot 10^6$ on frequencies of 1-5 Mc. The use of resonators of this type and tubes in the "N" series gives phase fluctuations of 130 db/cycle and 160 db/cycle on a modulation frequency of $5\cdot 10^6$ cps for analysis frequencies of 10 cps and 100 cps respectively. Orig. art. has: 1 formula.

SUB CODE: 09 SUBM DATE: 31Mar66

Card 2/2 hs

MOREV, N.Ye.; ITSKOVICH, Ya.S.; GAGARINOV, B.N.; BUTUZCVA, A.N.; DUBOVA, B.I.; FILATOV, D.K.; KABANOV, V.I.

Machanized TsNIKHP-ML-1-59 make continuous production line for making shaped bread. Trudy TSNIKHP no.8:12-15 '60. (MIRA 15:8)
(Bakers and bakeries—Equipment and supplies)
(Assembly-line methods)

"Experiments in the experimental Androgenesis and Cynogenesis of silkworms (Bombyx Mori L)" Department of the Eschanics of Development. (Chief: D. P. Filatov), Institute of Experimental Biology (Director: N. K' Koltsov), Loscow, by Astaurov, B. L' (p. 3)

S0: Biological Journal (Biologicheskii Zhurnal) Vol. VE, 1937, No. 1

FILATOV, D. P.

"On the formation of organs without a regulatory process." Institute of Experimental Biology (Director: Academician N. K. Koltsov), Moscow. by Filatov, D. P.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. VI, 1937, No. 2

"The Influence Of The Transplantation Of Tadpole Extremity On Its Regeneration Capacity And On The Changes Occurring In It. Department Of The Mechanics Of Development (Chief: Prof. D. P. Filatoy), Institute Of Experimental Biology (Director: Academiciah N. K. Koltsov), Moscow." (p. A89) by Yakovleva, T. M.

SO: PREDECESSOR OF JOURNAL OF GENERAL BIOLOGY. (Biologicheskii Zhurnal) Vol. VII, 1938

No. 3

FILATOV, D. P.

"Historical consideration of the phenomena of the mechanism of evolution and its meaning." (p. 3) by D. P. Filatov.

S0: Journal of General Biology (Zhurnal Obschei Biologii) Volume II No. 1, 1941.

"Obituary." (rp. 129-34) by D. P. Filatov

SO: Journal of Geneval Biology (Zhurnal Obshchei Biologii) Vol. 4, No. 3, 1943

FILATOV, D. P.

"Some Peculiar Features of the Formation of Balancers in Larvae of Pleurodeles Waltlii," Dokl. AN SSSR, 41, No.7, 1943

A SACREGRADADE SACREGRADA PARA

FILATOV, D. F.		
"D. P. Filatov a	nd his role in the mechanism of devolement." (p. 313) by L. V. Polezhayev	
	General Biology, Vol. 7, No. 5, 1944	

NESMEYANOV, An.N.; BORISOV, Ye.A.; FILATOV, E.S.; KONDRATENKO, V.I.; CHZHAN TSZE-STAN[Chang Chieh-hsiang]; PANKK, K.; SHUKIA, B.V.

Secondary reactions of the mecoil atoms brouine-82 and bromine-80m in bromomethanes. Radiokhimiia 1 no.6:712-716

'59. (MIRA 13:4)

(Browine--Isotopes) (Methane)

NESMEYANOV, A. N., FILATOVI, E. S., BORISOV, Ye. A., SHUKLA, B. N. - (USSR)

"Isotope Effect and Secondary Reactions of Bromine Recoil Atoms Accompanying (n,0)") Process".

paper submitted for the Symposium on the Chemical Effects of Nuclear Transformation (IAEA) Prague, 24-27 Oct. 1960.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011-9"

s/186/61/003/005/014/022 E160/E185

AUTHORS:

Nesmeyanov, An. N., and Filatov, E.S. The phase and isotope effects in the secondary

reactions of bromine recoil atoms in the TITLE i

bromo-derivatives of methane

PERIODICAL: Radiokhimiya, v.3, no.5, 1961, 601-609

The behaviour of CCl3Br, CCl2Br2, CHBr3, CHFBr2,

CH2BrNO2 and CBr3NO2 after bombardment with neutrons was investigated in order to verify the conflicting views of F.S. Rowland and W.F. Libby (Ref. 4; J. Chem. Phys., 7,21, 9, 1495 (1953)) that the isotope effect can be observed in solids only, and those of J. Willard (Ref. 5: Ann. Rev. Nucl. Sci., v.3, 193 (1953)) that the effect may be observed in liquids. The

experimental technique followed was the same as that described previously (An. N. Nesmeyanov, Ye.A. Borisov, I. Zvara, Ref. 2: Radiokhimiya, v.1, 3, 325 (1959)). In the case of CCl₂B=2, CHBr₃

and CHFBr2, the dependence of the retention and the yield of Card 1/4

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413020011-9"

5/186/61/003/005/014/022 E160/E185

The phase and isotope effects in ...

individual products on the concentration of free bromine added before the irradiation was studied. The effect of the temperature changes during irradiation on the secondary reactions following (n, y)-reaction in CCl2Br2 was also investigated. It was found that after irradiation the retention of bromine in the solid CCl3Br, CCl2Br2, CHBr3, CHFBr2 and CBr3F is much greater than in the There exists a linear relationship between retention and concentration of bromine in solid CCl2Br2 and CHBrz, which suggests that only high energy reactions between the recoil atoms and the medium take place. Libby's supposition about the appearance of isotope effects in solids could not be confirmed for the compounds examined. Willard's views on the possible existence of the isotope effect in liquids were confirmed, but it follows from his supposition that retention should be greater for Br 80m than for Br 82. The results show the opposite to be true. The absence of the isotope effect in solids could probably be explained in terms of an increase in the rate of neutralisation of the charge on the recoil atoms of bromine with the rise in the bond strength between molecules in the molecular Card 2/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011 The phase and isotope effects in ... S/186/61/003/005/014/022 E160/E185

Ref.16; M. Milman,
J. Am. Chem. Soc., v.80, 21, 5592 (1958)

SUBMITTED: November 22, 1960

Card 4/4

CIA-RDP86-00513R000413020011-9

5.4600

s/186/61/003/005/015/022 31892 E160/E185

AUTHORS & TITLE :

Nesmeyanov, An.N., Filatov, E.S., and Mansfel'd, A.

Chemical action of the Br82 recoil atoms after (n, γ) - reaction on some derivatives of benzene

PERIODICAL: Radiokhimiya, v.3, no.5, 1961, 610-613

TEXT: In order to get a more detailed knowledge of the influence of the mass of colliding particles on the chemical reactions of recoil atoms, the substitution of Br82 recoil atoms, obtained in the reaction $Br^{81}(n,\gamma)Br^{82}$, with atoms or atom groups in benzene derivatives, was investigated. Mixtures of $c_2^{H_5Br}$ with $c_6^{H_5C1}$, $c_6^{H_5I}$, $c_6^{H_5CH_3}$ and $c_6^{H_5}$ with neutrons. The yields and activity retentions were recorded (see Table 1). It has been shown that the substitution of the monoatomic benzene derivatives by the Br82 recoil atom is in direct relationship with the mass ratio. Good agreement between the calculated (from $R_{\rm X} = \alpha(E_2/E_1^0)$, derived on the assumption that elastic collisions of the Br - X type lead to C_6H_5Br Card 1/3

Chemical action of the Br⁸² recoil ... 5/186/61/003/005/015/022 E160/E185

formation, where $E_1^{\rm O}$ - energy of recoil atom before collision, E_2 - energy given to X, a - constant) and experimental yields, confirms the assumption that elastic collision mechanism operates in the formation of C6H5Br from halogen substituted benzenes. In the absence of complete experimental data on C6H5Br formation at present.

There are 1 figure, 2 tables and 5 references; 3 Soviet-bloc and 2 non-Soviet-bloc. The English language references read as

Ref.4: J.M. Miller, R.W. Dodson.

J. Chem. Phys., v.18, 6, 865 (1950).

Ref.5: J. Willard.

Symposium on the Chem. Effects of the Nuclear Transformation. Prague (1960).

SUBMITTED: April 20, 1961

Card 2/3

网络西班牙

Chemical action of the Br⁸² recoil. 5/186/61/003/005/015/022 E160/E185

Table 1

	Conne	 			Ta	ble l	
Solvent	Concen- tration	Yield (in %)				60-	
	(mol.%)	C ₂ H ₅ Br	C2H4Br2	C6H5Br	CH3C6H4Br	Poly-	General retention
6	95	3.7	4.9	8.6		mers	
с ₆ н ₅ сн ₃ {	95 92	3.1 4.9	5.4 6.4	8.0 7.3	18.2 17.1	3.2 4.1	34.9 36.9
^с 6 ^н 5 ^с 2 ^н 5 {	95 92	3.3 5.2	-	28.0 25.0	-	-	39.8 51.0
°6 ^H 5C1	95 95	2.0 6.0	-	21.6	-	-	53.9 52.4
6H ₅ I	90 95	11.0	-	20.4	-	-	53.1 49.5
		1.0	2.3	17.8	-	-	37.0

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011-9"

5.4600

\$/186/61/003/005/016/022 E160/E385

AUTHORS: Nesmeyanov, An.N. and Filatov, E.S.

TITLE: Chemical action on benzene of the Br^{82} and Hg^{203}

recoil atoms produced by the Br⁸¹ (n,γ) Br⁸² and

 ${\rm Hg}^{202}({\rm n,\gamma}){\rm Hg}^{203}$ reactions

PERIODICAL: Radiokhimiya, v.3., no.5, 1961, 614 - 622

TEXT: In order to explain the mechanism of substitution of hydrogen by heavy recoil atoms the authors investigated the dependence on the quantitative composition of the mixture of the yields of various products, containing Br , obtained by neutron irradiation, from a Po-Be source, of solutions of C₂H₅Br in C₆H₆ and the yields of phenyl mercury bromide and bromobenzene obtained by neutron irradiation in a nuclear reactor of solutions of HgBr₂ in benzene. Solutions of C₂H₅Br in benzene, with concentrations varying 6

C₂H₅Br in benzene, with concentrations varying from 1 to 100 mol.% were irradiated for 4-5 days with a neutron flux of 8x10⁶ neutrons/sec, then the quantity of radioactive bromine in the

31893 S/186/61/003/005/016/022 E160/E385

Chemical action on

form of atoms, ions and various organic compounds was determined. The yields of products containing radioactive atoms of Br 32 , obtained by irradiation of the system $c_2H_5-c_6H_6$, are given in Table 1 (1 - concentration of bromoethane in mol.%; 2 - yield, in %; 3 - total retention; 4 - polymers). Solutions of $HgBr_2$ in benzene, sealed in quartz ampules, were irradiated for 10 and 5 minutes, using a flux of 4×10^{12} neutrons/sec.cm 2 . The analysis was carried out seven and thirty days after irradiation. Thus, the short-life isotopes Hg^{205} and Hg^{199} had time to decay and only Hg^{205} and Hg^{199} remained (the activity of Hg^{197} was negligible). The yields of products containing radioactive Hg^{205} and $Hg^{$

31893 S/186/61/003/005/016/022 E160/E385

Chemical action on

retention and quantitative composition of the mixture C2H5Br-C6H6 was investigated. For concentrations of C2H5Br in the 1.0 - 0.2 M range the retention changed only a little with dilution. In the 0.2 - 0.02 M range there was a sudden fall in the C₂H₅Br yield, which is attributed to a slow-down of the Br recoil atoms in benzene in the case of higher degrees of dilution. The yield of bromobenzene rises linearly with concentration in the 1.0 - 0.2 M $C_2^{\rm H}_5^{\rm Br}$ range and remains almost constant in the 0.2 - 0 M range; the yield of $C_2^{H_4^2Br_2}$ varies only little. Comparison of the relationship yield of bromobenzene concentration in the mixture $c_2^{H_5Br-c_6H_6}$ with that of chlorobenzene in the mixture $CC1_4$ - C_6 H_6 , published by J.M. Miller and R.W. Dodson (Ref. 9: J. Chem. Phys., 18, 6, 365, 1950) shows that the difference between the masses of 6 and 6 accounts for the unequal energy transfer of the Card 3/14

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413020011-9

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S/020/61/138/006/016/019 B103/B215

AUTHORS:

Terent'yev, A. P., Corresponding Member AS USSR, Rode, V. V., Rukhadze, Ye. G., and Filatov, E. S.

TITLE:

Determination of the molecular weight of chelate polymers

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 138, no. 6, 1961, 1361-1364

TEXT: The determination of the molecular weights of chelate colymers is difficult since they generally are solid, nonfusible, and insoluble substances (C. S. Marvell, N. Tarköy, Ref. 1; J. Am. Chem. Soc., 79,6000 (1957)). V. V. Korshak and assistants (Ref. 2; Vysckomolsk, scyed., 1,1764 (1959), Ref. 3; ibid. 2,492 (1960), Ref. 4; ibid. 498 (1960), Ref. 4, ibid. 662 (1960)) assume that the molecular weight of metal polymers with different bis-β-diketones is not higher than 8000 - 10,000. It is known that chelate polymers contain three kinds of end groups in the molecule:

ELgn \perp M — Lgn \downarrow m — LgnH (1); HLgn $\left\{M - Lgn\right\}_{\Gamma}$ M — A (2); and

A $\left[M - Lgn \right]_n M - A$ (3), where H is a hydrogen atom, H₂Lgn is a molecule Card 1/7

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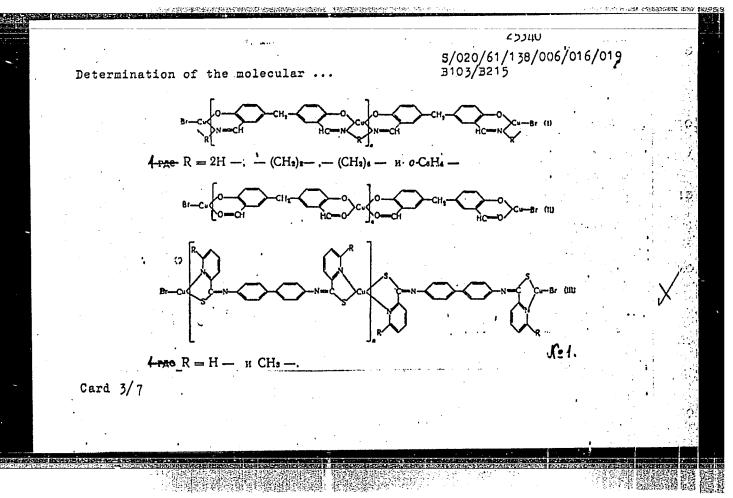
Determination of the molecular ...

S/020/61/138/006/016/019 B103/B215

of the ligand containing 4 (and more) donor atoms, M is the ion of a bivalent metal, and A a monovalent anion. According to the conditions of polycondensation, polychelates with different end groups can be produced. An excess of metal salt causes the formation of anion groups at the ends of macromolecules. For case (3), the number of these groups (in %) is $A = \begin{bmatrix} M_{2A}/M_{\rm PO} \end{bmatrix} 160$; $M_{\rm PO} = \begin{bmatrix} M_{2A}/A \end{bmatrix} 100$. The authors determined the molecular weights of chelate polymers produced formerly:

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25340 \$/020/61/138/006/016/019 B103/B215

Determination of the molecular ...

All these polymers were synthesized with cupric bromide tagged with Br Table 1 shows the molecular weights determined, and the polymerization coefficients of the chelate polymers calculated on the basis of Eq. (2). The percentage of the anion (A) was calculated to be the ratio between the portion of the Br⁸² activity in the precipitate and the activity introduced. The molecular weights are 3-4 times higher than those obtained by other scientists. The authors explain the lower molecular weight of (III) by the different stability of the chelate node, in the macrochain. In polymer (I) the molecular weight changes according to R. The authors proved this to depend upon the different oxidizabilities of the amines . participating in the reaction. The higher the oxidizability of an amine, the faster the rupture of the chain and the lower the moleculer weight of the polymer. Since amines also oxidize when left standing in solutions, the molecular weight of a polychelate decreases due to a longer period between the preparation of the solution of an easily oxidizable amine and its application. Such amines in this case were: hexamethylene diamine $((I)R = -(CH_2)_6 -)$ and o-phenylene diamine $((I)R = o-C_6H_4 -)$. The reaction with a newly prepared solution yielded the highest molecular weights Card 4/7

253կ0 8/020/61/138/006/016/019 в103/в215

Determination of the molecular ...

When left standing for 3-5 hr, the molecular weight of the polymers was only 50% (in agreement with Ref.1). When left standing for 48 hr and more, low-molecular compounds are formed. With other structures ((I)R = 2H—; (I)R = $-(CH_2)_2$ —) the molecular weights remain constant even after 48 hr.

Polymers (I) may be produced by the method of nascent reagents and also from polymeric Schiff's bases. The average molecular weight is not affected by the method of synthesis. The authors reproduced their methods of determination with a monomer of analogous structure, namely copper salicylal ethylene diamine, to examine whether bromine anions are bound by the polymer surface. The actual molecular weights of polychelates would thus seem to be too low. The authors found that the copper complex, corresponding to theory, in fact does not contain radioactive bromine, i.e., binding did not take place. The method of determining the molecular weights of the above chelate polymers described by the authors yields stable, reproducible results. There are 2 tables and 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication is given in the body of the abstract.

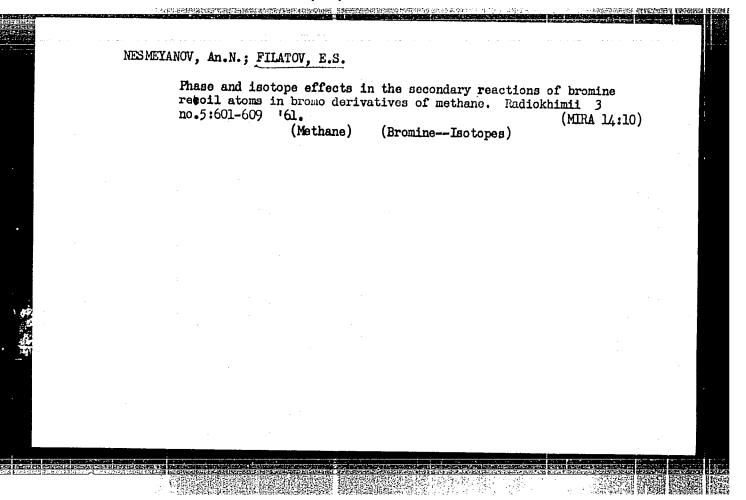
Card 5/7

Determination of the molecular ... S/020/61/138/006/016/019
B103/B215

ASSOCIATION: Moskovskiy gosudarstvenyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: February 24, 1961

Card 6/7

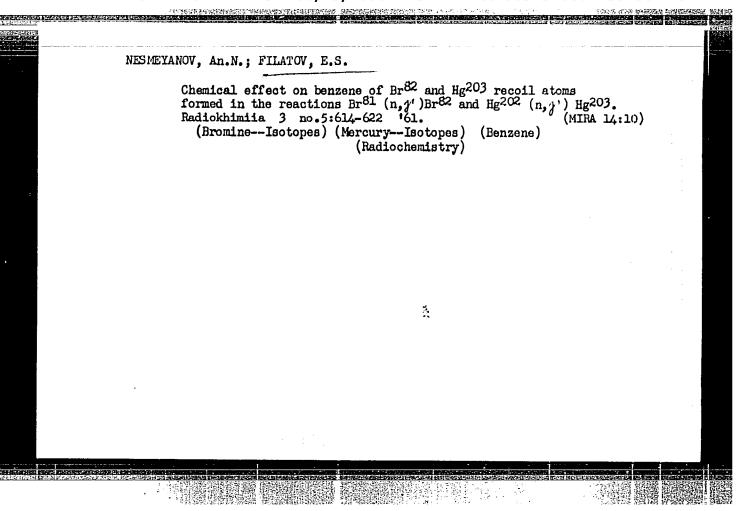


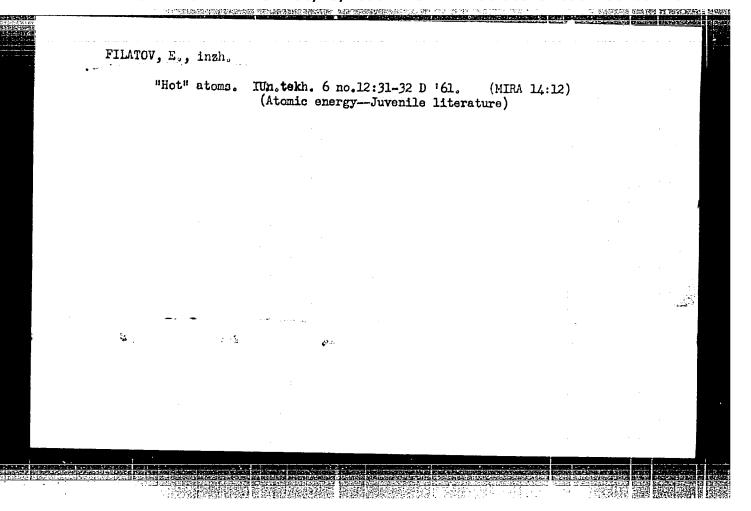
NESMEYANOV, An.N.; FILATOV, E.S.; MANSFEL'D, A.

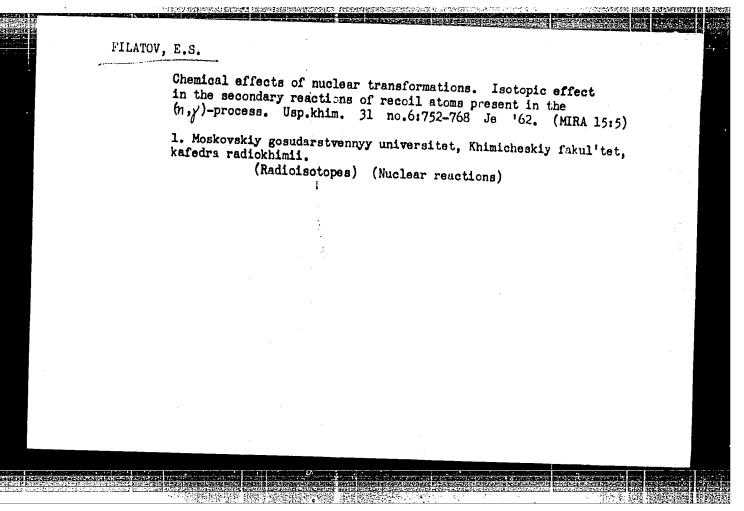
Chemical effect of Br82 recoil atoms after (n, ½')-reactions on some benzene derivatives. Radiokhimiia 3 no.5:610-613 '61.

(Eromine--Isotopes) (Benzene) (Radiochemistry)

(Radiochemistry)

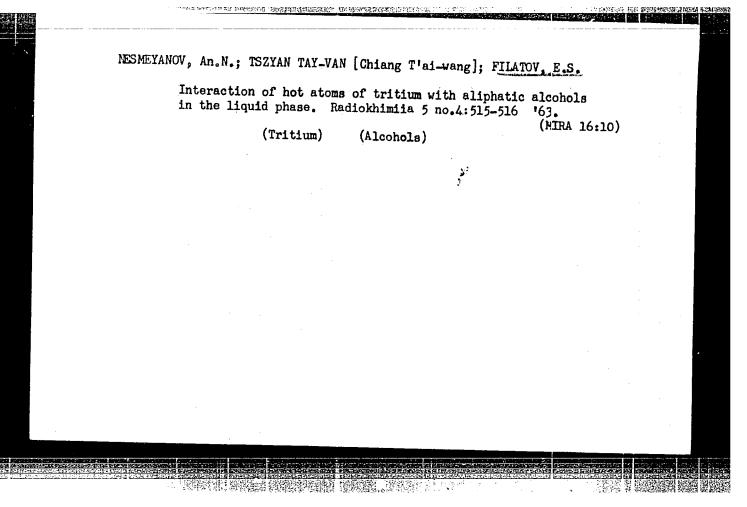






Role of high energy reactions in the processes of stabilization of bromine 82 hot atoms in alkyl bromides. Radiokhimita 5 no.3:378-389 '63. (MIRA 16:10)

(Bromine isotopes) (Alkyl bromides)



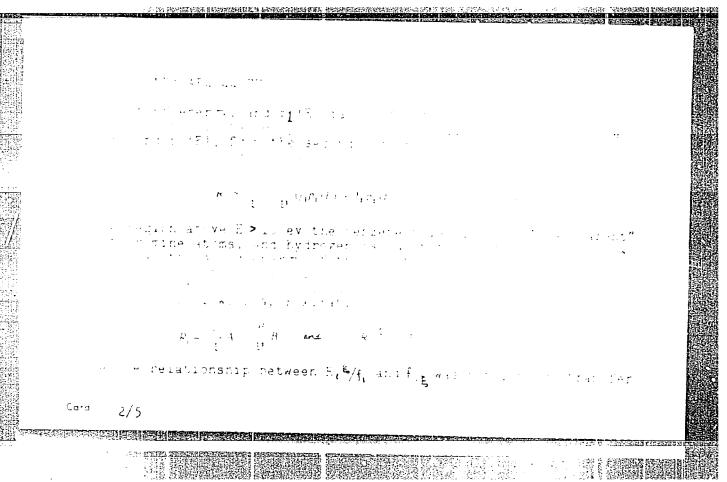
FILATOV, E.S.; NESMEYANOV, An.N.; CHEPYZHEV, Yu.B.

Study of the yields of the reaction Br⁸¹ (,) Br⁸² in the system CH2Br2 - C6H6. Vest.Mosk.un. Ser.2;Khim. 18 no.6:45-46 N-D '63. (MIRA 17:4)

1. Kafedra radiokhimii Moskovskogo universiteta.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011-9"

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TOPIC TAGS: hot atom, activation energy transfer, intermolecular decrease transfer, elastic of the second transfer.
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$R_{\ell} = \frac{i}{\hbar} \rho_{\ell}(\bar{e}) - \frac{i}{\hbar} \rho_{\ell}(\bar{e}) (f_{1}\rho_{\ell}(\bar{e}) + f_{2}\rho_{\ell}(\bar{e})). \qquad (7p)$



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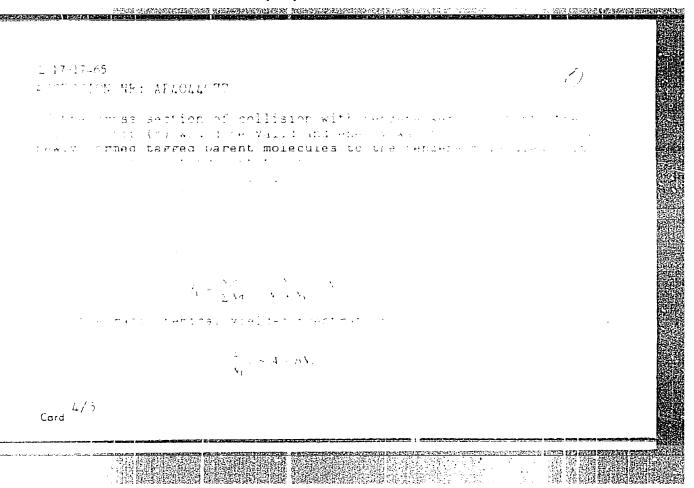
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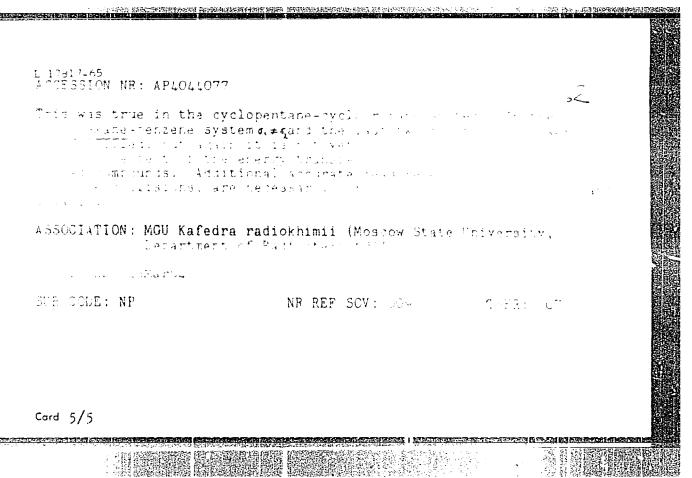
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mixture with benzene; and a is the "coefficient of survival". The ratio of was not constant. If the cross section of collision of hot browning atoms with benzene were not constant.





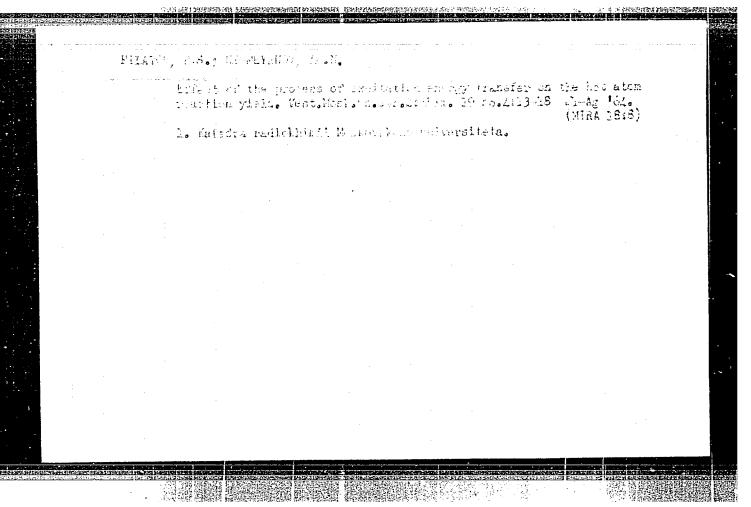
VASHAROSH, L.; FILATOV, E.S.; NESMEYANOV, An.N. Chemical action of Cl^{38} recoil atoms in chloromethanes. Particular fertures of the yield of Cl^{37} (n, γ) Cl^{38} reaction as compared with Br81 (n, γ) Br82 reaction. Radiokhimiia 6 no.4:484-490 164.

(MIRA 18:4)

CIA-RDP86-00513R000413020011-9" APPROVED FOR RELEASE: 06/13/2000

FILATOV, E.S.; NESMEYANOV, An.N.; CHEPYZHEV, Yu.B.

Reactions of hot bromine atoms in liquid binary systems. Radiokhimiia (MIRA 18:1)



MESMEYANOV, An.N.; TSZYAN TAY-YAN [Chiang T'ai-wang]; FILATOV, E.S.

Reactions of tritium hot atoms and the process of excitation energy transfer. Vest. Mosk. un. Ser. 2: Khim. 19 no.6: 27-28 N-D '64. (MIRA 18:3)

1. Kafedra radiokhimii Moskovskogo universiteta.

FILATOV, E. S.; KOLTAY, L.; NESMEYANOV, A. N.

"Models of atom-molecule collisions and hot atom reactions."

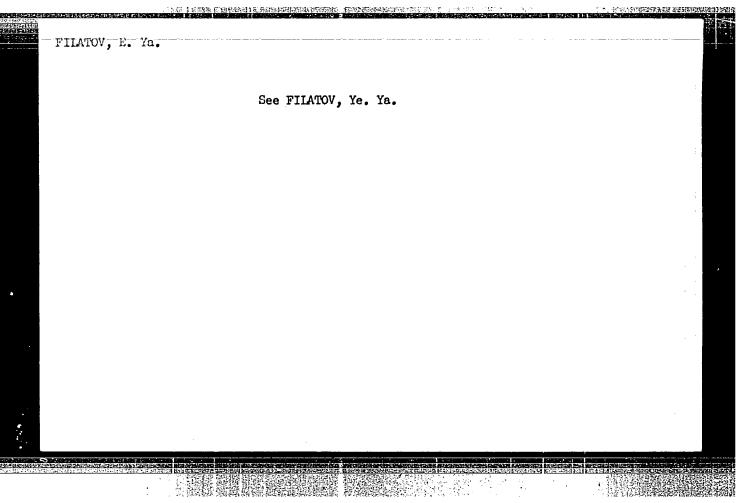
report presented at IAEA Symp on Chemical Effects associated with Nuclear Reactions and Radioactive Transformations, Vienna, 7-11 Dec 64.

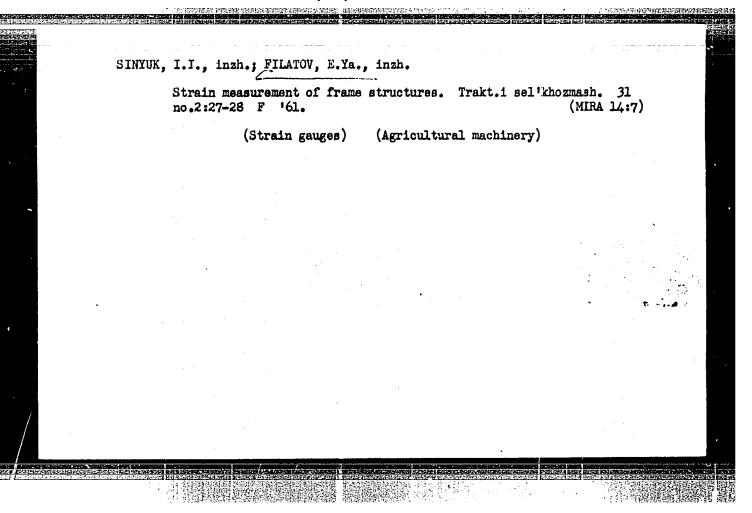
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011-9"

Mechanism underlying the elementary event of a hot reaction.

Bap. khim. 34 no.913607.3647 S 165.

1. Moskovskiy gosudarstvannyy universitet imeni Lomontacva, khimichaskiy fakulitat, kafadra vadiokhimit.





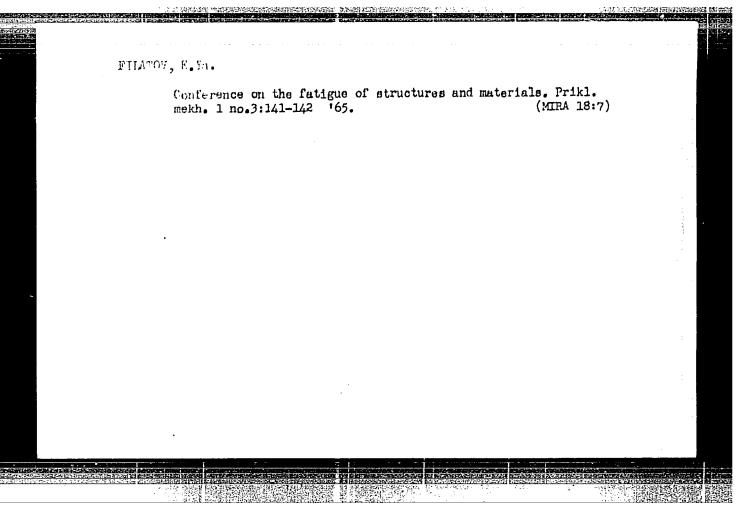
Instrument for the statistical treatment of oscillographic recordings. Zav.lab. 27 m.2:210-212 '61. (MIRA 14:3)

1. Institut liteynogo proizvodstva AN USSR. (Oscillography)

	P: APSOCHOTS	s/0122/65/c00/002/0016 /0019
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SOURCE: V	estnik mashinostroyeniya	, no. 2, 1965, 16-19
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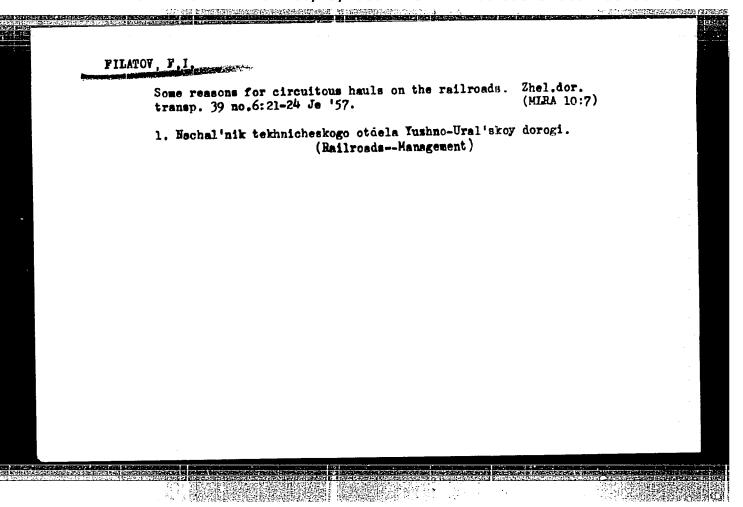
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- 2. USSR (600)
- 4. Tobacco
- 7. Our experience in growing makhorka. Tabak 13 no. 6, 1952.

9. Monthly List of "ussian Accessions, Library of Congress, March 1953. Unclassified.



S/701/61/000/000/002/005 B124/B138

18. 8400 (2408)

AUTHORS: Sukhenko, K. A., Filatov, F. I., Galonov, P. P., Moiseyeva,

K. A., Metelina, L. D.

TITLE: The analysis of aluminum alloys with a multichannel quanto-

meter

SOURCE: Fotoelektricheskiye metody spektral'nogo analiza; sbornik

statey. Moscow, Oborongiz, 1961, p. 44 - 65

TEXT: 100 mm long wires 7 mm in diameter, and cast electrodes and disks 50 mm in diameter and 40 - 50 mm thick, made of A/m (AMg) and duraluminum were analyzed with a 85-channel quantometer supplied by the firm ARL in the USA. The spectroscopic assembly consists of four constituent parts: (1) spectrometer with diffraction grating, slits, photomultipliers, and stand; (2) amplifying and recording device and timing relay; (3) adjustable high-accuracy light source, and (4) frequency and voltage stabilizer. A 1.5 m concave-ruled diffraction grating (960 lines/mm) is attached to the exit slot. The spectral range is 1500 and 7700 Å. Optical and electric diagrams are shown in Fig. 6. Hemispherical or truncated-cone graphite and Card 1/10

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S/701/61/000/000/002/005 B124/B138

The analysis of aluminum ...

carbon electrodes are recommended. An air-conditioner supplied by Sulzer (Switzerland) is recommended for maintaining a constant temperature of $21\pm0.5^{\circ}C$ and humidity of $45\pm2.5\%$. Analytical lines and operating conditions for the analysis of specially prepared standards of steel and Al, Mg, Ni, and Ti alloys are given in Table 1. Attenuators are selected in dependence on the concentration ranges of each element contained in the alloy (Table 4). The reproducibility of results obtained for AMg and duraluminum is shown in Tables 5 and 6. Analysis of 6 - 7 elements takes 2 - 3 minutes, with the automatic device. The accuracy (except copper) is 1 - 2%, and is somewhat higher when wire samples are used. There are 15 figures and 6 tables.

Card 2/10

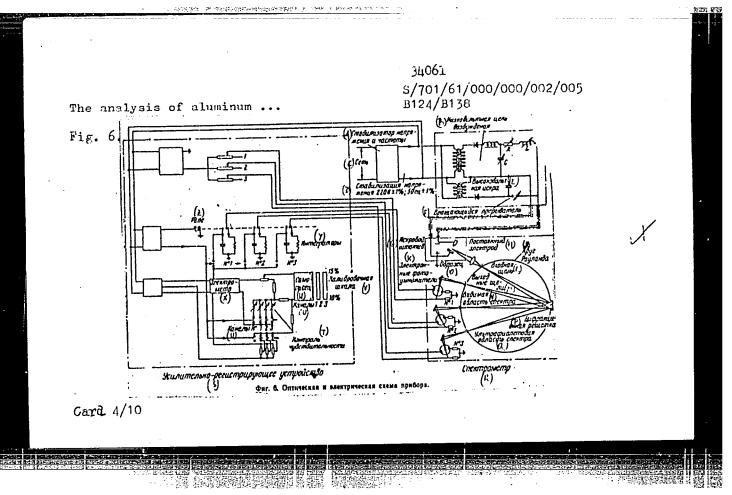
S/701/61/000/000/002/005 B124/B138

The analysis of aluminum ...

Fig. 6. Optical and electric diagram of the apparatus, begind: (A) Voltage and frequency stabilizer; (B) Low-voltage exciting circuit; (C) mains; (D) Voltage stabilization 220 v ± 1%; 50 cps ± 1%; (E) High-voltage spark; (F) Rotary chopper; (G) Spark stand; (H) Stationary electrods; (J) Rowland's circle; (K) Photomultiplier tuber; (L) inlet slit; (M) exit slits; (N) visible region of the spectrum; (O) Sample; (P) diffraction grating; (Q) ultraviolet region of the spectrum; (R) Spectrometer; (S) Amplifying and recording device; (T) Sensitivity control; (U) Channels; (V) Calibration dial; (W) recorder; (X) Electrometer; (Y) Integrators; (Z) Relay.

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The analysis of aluminum ...

Table 1. Operating program of the ARL quantometer. Legend: (A) Elements; (B) Spectral lines; (C) Panel No. for exit slits; (D) Concentration ranges, in %, for the analysis of different alloys and steels; (E) Alloy steels; (F) low-voltage spark; (G) trace elements in steels; (H) titanium steels; (I) high-voltage spark; (J) nickel alloys; (K) aluminum alloys; (L) magnesium alloys; (M) Number of integrator; (N) Number of photomultiplier; (O) Number of channel; (P) Reference line; (R) Screen; (S) Undispersed light; (T) There are 23 integrators in all, 38 photomultipliers, 85 measuring channels; (U) Notes. 1. A, B, C, D, E, and F indicate the group of the alloys. 2. Screens are necessary to protect the photomultipliers against strong flux of light.

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5/701/61/000/000/002/005 B124/B138

The analysis of aluminum ...

Table 4. Selection of the attenuators. Legend: (A) Number of attenuator; (B) Element; (C) Position of attenuator; (D) Alar; (E) Duralumin; (F) Copper; (G) Beryllium; (H) Magnesium; (J) Iron; (K) Silicon; (L) Manganese; (M) Zinc; (N) Titanium; (P) Aluminum.

<i>(</i>) Номер	T(-	(г) Положение аттенюатора		
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Card 7/10

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3/701/61/000/000/002/005 B124/B138

The analysis of aluminum ...

Table 5. Reproducibility of analytical results for AMg-type aluminum alloys and duralumin (high-voltage spark used as the source of light). Legend: (A) Analytical lines, A; (B) Mean arithmetical error, in %, of 20 to 40 determinations; (C) AMg, wire; (D) AMg, cast bars; (E) AMg, disks; (F) Duralumin, bars, wire; (G) Duralumin, disks; (H) Concentration vances determined for both alloys; (J) Reference line; (K) Note. The carbon stationary electrode is hemispherical.

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S/701/61/000/000/002/005 B124/B138

The analysis of aluminum ...

Table 5.

•		7.) Cpeana:	і арифист	пческа	я синбка в	96 11.1 21140	определений
	Аналитиче- ские линии	С АМг. тянутая проволо- ка	Aylr,	(4)	Дуралюмии.	(6) Дуралюмин, диски	Пределы определяемых кон- центраций по обоим сплавам
	Cu 3274	+1,2	±2,5	±2,7	±3,6	±5,0	0,07—6,9
	Mg 2790	±2,5	₫ 3,5	±2,0	±2,0	±1,5	0,08-7,5
İ	Fe 2599	±0,73	±3,6	±2,0	±0,9	±1,8	0,10-1,6
	Si 2516	±1,2	±2,2	±2,6	±1,5	£1,5	0,061,9
	Mn 2933	±2,5	±4,2	±1,0	±2,0	±2,0	0,20—1,9
	Be 3130	±1,0	_	-	-	_	0,0010,008
	A1 2568	Линия с	равнения	-	-	-	

Card 9/10

(K)Примечание. Постоянный электрод — уголь, заточенный по форме.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011-9"

3/101/61/000/000/002/005 B124/B138

unlysis of aluminum ...

Reproducibility of the analytical lines of the duralumin-type aluminum alloy (low-voltage spark used as the source of light).

Legend: (A) Analytical lines, A; (B) Mean arithmetic error, in % of 60 determinations; (C) Duralumin, disks; (D) Range of concentrations determined; (E) Reference line.

Аналитические	В Средичя арифиетичес	ая ошибка в % из 60 определений		
(A) Å	(с) дуралюмин, диски	(Д) пределы определяемых концентраций		
Cu 3274	±1.6	1,0-6,1		
Mg 2790	±2,65	1,0—6,1 0,5—2,0		
Fe 2599	±3,3	0,4-2,0		
Mn 2933	±2,8	0,2-1,1		
A1 2568		я сравнения		

card 10/10

S/701/61/000/000/004/005 B124/B138

18.8400

AUTHORS:

Sukhenko, K. A., Filatov, F. I., Moiseyeva, K. A., Galonov, P.

P. Metelina, L. D.

TITLE:

Determination of boron in nickel alloys

SOURCE:

Fotoelektrich skiye metody spektral'nogo analiza; sbornik sta-

tey, Moscow, Oborongiz, 1961, p. 82 - 86

TEXT: The medium-dispersion quartz spectrograph MCW-28 (ISP-28) and the diffraction-grating spectrograph MCC-13 (DFS-13) and the ARL quantometer (USA) were used to determine the boron content of three types of nickel alloys. Operating conditions are given in Table 1. Optimum results were obtained with low-voltage spark; the mean arithmetical error for a sample containing 0.02% B was ±6%. T. M. Faytel'son and T. Ye. Sharovatova are mentioned. There are 4 figures and 2 tables.

Table 1. Conditions for the multichannel quantometer determination of boron in a nickel alloy. Legend: (A) Low-voltage spark; (B) Arc with spark gap; (C) ... microfarade; (D) ... microhenry; (E)

Card 1/2 ...

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S/032/62/028/002/025/037 B124/B101

AUTHORS:

Filatov, F. I., and Kolpashnikov, A. I.

TITLE:

Determination of residual stresses in brake drums of

airplane tires

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 223-224

TEXT: A method based on the change of resistance to deformation before and after cutting out the places of attachment of the strain gauges on brake drums made of the magnesium alloy 8M65-1 (VM65-1) was used to determine the relevant residual stresses. The glue 50-4 (BF-4) was found to give most satisfactory results after drying for 24 hrs at 60°C. Tests were performed with punched VM65-1 drums hardened at 170°C for 24 hrs, and then mechanically treated, and on drums tempered at 170°C for 6 hrs following the mechanical treatment. Strain gauges were glued to joints on two planes perpendicular to each other. One was used to measure the radial and axial components of the stresses, and the other to measure the tangential components. After attachment of the strain gauges the resistances are measured with an 3M-3 (EID-3) electronic deformation—Card 1/52

S/032/62/028/002/025/037 B124/B101

Determination of residual stresses ...

measuring device, the accuracy of which is, according to the calibrating apparatus of the TsNIITMash, \pm 0.2·10⁻⁵ deformation units, equivalent to an error in measurement of about \pm 0.08 kg/mm². A compensating gauge was used to compensate for temperature changes during measurement. The results are shown in the accompanying figure in the form of average values of four measured deformations. The tensile strength of punched VM65-1 s varied from 26 to 31 kg/mm². An analysis of these results shows that the amount of residual stresses is small, particularly in tempered drums and cannot influence their strength. F. I. Potapov, A. M. Yermilov, B. Ya. Tolmachev, and A. Ya. Kharitonov took part in this work. There is 1 figure.

Fig. Numerical values of residual stresses in non-tempered (a) and tempered (b) drums: a tangential stresses; a radial and axial stresses. The sign + indicates compressive stress, the sign - tensile stress; the values of stresses are given in kg/mm^2 . Legend: (A) not measured.

Card 2/3/2

FILATOV, F. I.

Filatov, F. I. Instruments and Methods of Measuring Resistance to Deformation of Metals and Alloys. p.120

Korneyev, N. I.; I. G. Skugarev; and F. I. Filatov. Study of Flow Pressure of Certain Alloys. p.134

Pressure Treatment of Alloys; Collection of Articles, Moscow, Oborongiz, 1958, 141pp.

27042

S/182/61/000/004/002/007 D038/D112

18.1130

AUTHORS: Korneyev, N.I., Morokhovets, G.M., Filatov, F.I. and Manych, V.P.

TITLE: Investigations on the technological ductility of stainless steels

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1961, 9-12

TEXT: The authors state that perlitic and martensitic steels are highly ductile during hot deformation, and that heat-resistant iron- and nickel-base steels have a limited ductility since their ductility is determined by the content of alloying elements as Al, Ti, B, etc. The article deals with an investigation on the forgeability of the Soviet martensitic and semi-austenitic steels listed in table 1. The X 17H2 (Kh17N2) and 3M736 (EI736) steel grades were tested in the preliminary deformed state without heat treatment, and the 3M904 (EI904), 3M 925 (EI925), 3M961 (EI961) and 3M643 (EI643) steels in the forged and deformed state without heat treatment. Forgeability was evaluated on the basis of results of tensile compression and impact tests at temperatures of 600-1300°C. The test results revealed that the EI-736, EI-961, and EI-643 steels can be press or hammer forged or rolled within a rather wide temperature range, and with a high degree of deformation, as shown in table 2. However, the permissible total deformations listed in this table apply only to the upper limits of the temperature range, and cannot be Card 1/5

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Investigations on the technological

used for the lower temperatures. Gas-turbine discs forged with a degree of deformation exceeding 65% and completed below 900°C show sharp anisotropy of mechanical properties, especially impact properties. The EI-904 and in particular the EI-925 steels have poor forgeability (Fig. 3); whilst undergoing forging operations, they should not be heated above 1100-1120°C, and total deformation ought not to exceed 50-60%, even in the preforged state. These steels are also sensitive to the rate of deformation. In hammer forging they show almost twice as much resistance to deformation as in press forging, even at temperatures as low as 900°C. In the case of large forgings or in the processing of large (10-ton) ingots the sensitivity of the steels is a serious limitation. Some heats of the EI-904 and the EI-925 steels showed a considerably better forgeability, however, and can be hot worked at 1200-850°C without difficulty. On the other hand, other heats of the same steel develop forging cracks after being heated for forging to 1150 ± 20°C but become ductile on being heated to 1200-1240°C. Presumably, this difference in behavior is caused by a differing content of delta-ferrite. This assumption was confirmed experimentally by flat-die hammer forging of two experimental heats of EI-925 steel containing 9 and 19% delta-ferrite, respectively. The authors conclude that further work should be done to establish the dependence of the effect of delta-ferrite on the ductility of steel. There are 5 figures, and 2 tables.

Card 2/5

	FILATOV, Fedor Ivanovich	
	"Increasing the Seed Yield of Perennial Grasses," Sov. agron., No.4, 1949	
	Inst. Grain Gulture of Southeast	
		,
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FILATOV, F. I.

"The Cultivation of Perennial Grasses in Field and Forage Crop Rotation in the Southeast USSR," 1950

- 1. FILATOV, F. I.
- 2. USSR (600)
- 4. Agriculture
- 7. Agrobiological principles of cultivating perennial grasses in the Southeast U.S.S.R. Saratov, Obl. gos. izd., 1951

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

FILATOV, F.I.

Vozdelyvanie mnogoletnikh trav
(Cultivation of perennial grasses). 2 izd. Saratov,
Saratovskoe oblast. gos. izd-vo, 1952. 170 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

FILATOV, F.I.

New book on Michurin genetics ("Tundamental problems in Michurin genetics." N.I.Feiginson. Reviewed by F.I.Filator). Izv. AN SSSR. Ser.biol. no.4:139-143 J1-Ag '56. (MIRA 9:10)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Yugo-Vostoka, Saratov. (GENETICS) (PEIGINSON, N.I.)

USSR/Cultivated Plants - Fodders.

М

Abs Jour : Ref Z

: Ref Zhur Biol., No 12, 1958, 53677

Author

: Filatov, F.I., Kuz'min, V.D.

Inst Title : What Did the Experimental Sowings of Sorghum japonicum

in 1956 in the Saratovskaya Oblast' Show?

Orig Pub

: S. kh. Povolzh'ya, 1957, No 5, 46-49

Abstract

: The trials of Sorghum japonicum on the Sovkhozes (state farm) of the most arid parts of the Oblast' showed its very late maturity in comparison with sorghum (Sorghum unlgare). The best result was obtained by wide-row planting. At that time the yield of the green bulk was 168 cwt/ha. This did not surpass the yield of Chinese sugar cane (S. saccharatum) which is more valuable from'

the standpoint of feed quality. -- I.N. Zaikina

Card 1/1

DUBROVIN, Ye.; KARMAL'SKIY, O.; FILATOV, G.; LOKOTKOV, A.; LEBEDINSKIY, A.;

BARANOV, I.; MITSEVICH, P.; BABENKO, Ye.; GOLITSYN, A. (Ozery, Moskovskoy obl.); SHCHEPOTIN, I. (Ozery, Moskovskoy obl.); KHALANGOT, A. (Snezhnoye, donetskoy obl.); KUZ'MICHANA N. (Snezhnoye, Donetskoy obl.); SIRITSA, A., inzh. po ratsionalizatsii

This is the way we live. Izobr. i rats. no.10:4-5, 23 '63.

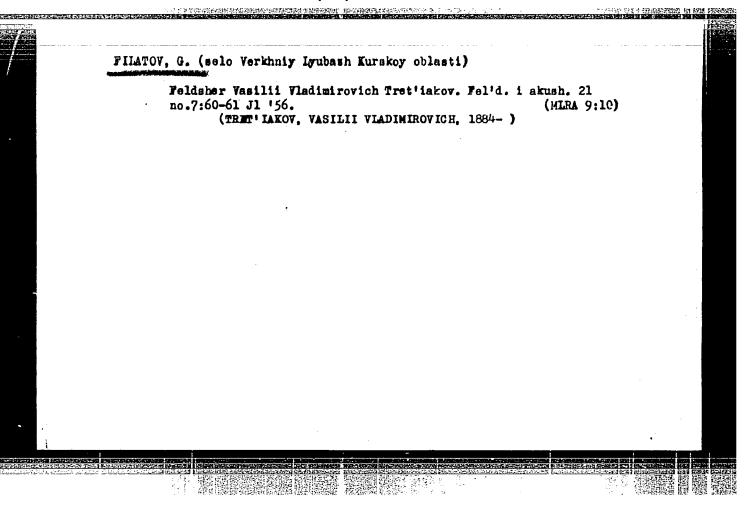
(MIRA 17:2)

1. Chlen soveta obshchestvennogo konstruktorskogo byuro zavoda im. V.I.
Lenina (for Karmal'skiy). 2. Predsedatel' Amurskogo oblastnogo soveta
Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Filatov).

3. Predsedatel' Chelyabinskogo promyshlennogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Lokotkov). 4.

Starshiy and the Odesskogo zamoda imeni Dzerzhinskogo (for Lebedinskiy).

5. Predsedatel' zavodskogo soveta Vsesoyuznogo obshchestva izobretateley
i ratsionalizatorov (for Baranov). 6. Predsedatel' soveta Vsesoyuznogo
obshchestva izobretateley i ratsionalizatorov Irkutskogo zamoda tyazhelogo
mashinostroyeniya imeni Kuybysheva (for Mitsevich).



1.1210

2⁸³⁴⁸ s/124/61/000/007/010/044 A052/A101

11. 8200

RS: Volin, B. P., Troshin, Ya. K., Filatov, G. I., Shchelkin, K. I.

TIPLE: On the reacton-kinetic nature of heterogeneities in the shock front

and the part played by them in the process of propagation of gas

detonation

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 7, 1961, 7, abstract 7B47

(%h. prikl. mekhan. i tekhn. fiz" no. 2, 1960, 78-89)

TEXT: The process of origination of heterogeneities in the forward front of a flat detonation layer is considered theoretically. The disturbance develops in the ignition front and propagates over the front with the velocity of sound in the shock-compressed gas a. In the direction of propagation of detonation the disturbance is drifted by the flow behind the forward shock front and overtakes the front at the moment

 $t = \frac{\lambda}{a_1 - (D - \omega)}$

where λ - the width of detonation zone, D - the velocity of detonation, ω - the

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28348 s/124/61/000/007/010/044 A052/A101

On the reacton-kinetic nature ...

velocity of shock-compressed gas in the laboratory system of coordinates. By this moment t the disturbance over the ignition front will have the diameter

 $\Delta y \sim TD \frac{2(\gamma-1)/(\gamma+1)}{1-1/\sqrt{2\gamma/(\gamma-1)}} TD\beta$ (1)

where Υ - the period of the induction of ignition, Υ = c_p/c_v - the ratio of specific heats, β = 0.5 > 0.4 at γ = 1.4 $\dot{\tau}$ 1.3. The identification of Δ y with the experimentally observed dimension of heterogeneities enables one to consider equation (1) as the dependence of the mean dimension of such heterogeneities on reaction-kinetic and gas-dynamic factors. The results of experiments on obtaining the track imprints of detonation wave on faceplates covered prior to the experiment with a thin layer of carbon black are described. Another proof has been found of the existence of heterogeneities, not only near the wall of the detonation tube, but over the whole surface of the detonation front in the tubes as well. It is shown that such heterogeneities exist also in the apherical detonation wave. It is found but that the total number of heterogeneities over the whole detonation front increases with the surface of the front. The authors arrive at a conclusion that spherical detonation, like the gas detonation in tubes, is pulsating one, that heterogeneities in its front emerge spontaneously, and that these heterogeneities are not connected with the presence

Card 2/3

DESCRIPTION OF STREET PROPERTY AND A STREET

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On the reacton-kinetic nature ...

of walls of the detonation container. To bring the fact of multiplication of pulsations with the increase of the surface of detonation front in agreement with the periodical mechanism of detonation, the authors consider it necessary to complement the conception of the mechanism of detonation combustion, given in another study (Denisov, Yu. N., Troshin, Ya. K. Zh. prikl. mekhan. i tekhn. fiz. no. 1, 1960, 21-35), by introducing into the detonation cycle one more link of instability being the source of emergence of breaks in the shock front. A criterion of the limit of existence of the spin and pulsating detonations is also given. There are 23 references.

Yu. Denisov

[Abstracter's note: Complete translation]

W.

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FILATOV, G.I.

Health education work in Verkhnyi Liubezh District, Kurek Province.
Zdrav.Ros.Fedor. 1 no.6:24-26 Je '57. (MLEA 10:8)

1. Zaveduyushchiy Verkhne-Lyubazhskim rayonnym otdelom zdravookhrananiya.

(VARKHNIY LIUBAZH DISTRICT--HEALTH EDUCATION)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413020011-9"

Vorking with intermediate medical personnel in a district.

Zdrav.Ros.Feder. 2 no.7:31-34 J1'58 (MIRA 11:7)

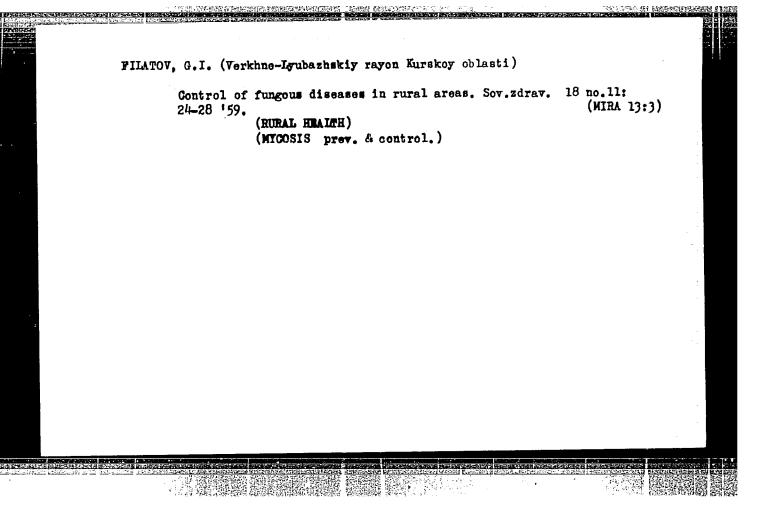
1. Slushatel' zmochnogo otdeleniya kafedry organizataii
sdravookhraneniya (zav. - prof. S.A. Vinogradov) TSentral'nogo
instituta usovershenstvovaniya vrachey.

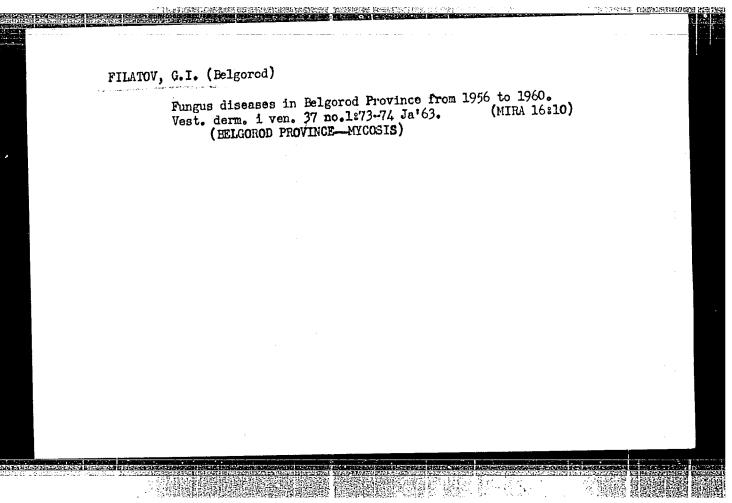
(VERKHNIY LYUBAZH DISTRICT--MEDICINE, RURAL)

Result of fungous disease prevention in Verkhniy Lyubazh District,
Kursk Province region. Vest.derm. i ven. 33 no.3:51-54 My-Je
159.

1. Iz knfedry kozhnykh i venericheskikh bolezney (zav. - dotsent
V.O.Andreyev) Kurskogo meditsinskogo instituta (dir. - prof.A.V.
Savel'yev).

(FUNGUS DISMASMS, prev. & control
in Hussia (Hus))





MP(1)/T/FCS SOURCE CODE: FSS-2/EVT(1)/EXP(m)/EXT(m)/EXP(<u>l 9555-66</u> WW/JW/WE/RM ACC NR: AP5026062 RPL 55 55 G. I. (Deceased) Ya. K.; Filatov. Troshin, Gordeyev, V. Ye.; Serbinov, A. I AUTHOR: 78 \mathcal{B} ORG: none TITLE: Initiation of the explosive conversion of condensed explosives by gaseous detonation SOURCE: Nauchno-tekhnicheskiye problemy goreniya i vzryva, no. 2, 1965, 12-21 55 5 tetranitromethane, benzene, TOPIC TAGS: gaseous detonation, <u>liquid explosive</u>, tetranitromethane, methane, oxygen, ignition delay, detonation wave, detonation velocity ABSTRACT: Initiation of the detonation of a tetrani.tromethane benzene mixture (1.5:1 by volume) by detonating a stoichiometric methane longen mixture was studied photographically using an experimental setup consisting of a thick-wall steel pipe with a 76-mm external diameter and a 10-mm internal diameter and a plexiglass tube with a 30-mm external diameter and a 10-mm internal diameter. The steel pipe was equipped with an electric detonator and was filled with the gaseous mixture. The plexiglas tube was filled with the liquid (or solid) explosive. The initial gas mixture pressure varied between 0.1 and 60 atm abs. Detonation of the liquid explosive by the reflected wave of the gaseous detonation occurred only at the initial gaseous mixture pressure of $p_0 > 2$ atm abs. The liquid explosion delay time τ decreased from 350 to 10 usec as the initial pressure in the gaseous mixture increased from 2 to 12 atm 532.595.2+534.222.2

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ACC NR: AP5026062

abs. At pressures of 24 atm abs., the ignition delay practically disappears, i.e., the explosive ignites instantly on contact with the gaseous detonation wave. Transition of accelerating combustion into detonation of the explosive occurred within 30 usec after ignition. A stoichiometric tetranitromethane-benzene mixture (4:1) is even more sensitive to the gaseous detonation; it is detonated at $p_0 \ge 0.66$ atm abs. with a delay time of 70 usec. The change in the ignition delay is attributed to the difference in the surface temperature of the explosive T_8 . The delay time was measured at various temperatures and the experimental data were used to calculate T_8 , which vary between 712 and 841K, depending on τ . The same values of T_8 (about 800K) were also obtained by a different method, which takes into account thermal conductivity, specific heats, and densities of the components of the gaseous mixture and of the combustion products. At the initial gas mixture pressure below 60 atm abs., the detonation velocities in both gases (about 2300 m/sec) and in the liquid explosive (6850 m/sec) are practically independent of pressure. Orig. art. has: 5 tables, 2 figures, and 4 formulas.

SUE CODE: FP/ SUBM DATE: 30Nov64/ ORIG REF: 016/ OTH REF: 001/ ATD PRESS:

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FILATOV, G.M.

All employees take part in the competitions. Vest. sviazi 23 no.
(MIRA 17:2)
7:27-29 Jl '63.

1. Nachal'nik Mogilevskoy direktsii radiotranslyatsionnykh setey.

