

SMIENCY-ZAMKOV, I.B. i SHILOV, E.A.

2h807. STERNOV-ZAMKOV, I.B. i SHILOV, E.A. Oprostpanst bennom Napravlenii Reaktsiy
Priscedineniye Po Kratnyn Sbyazyan Doklahd Akadnauk SSSE Novaya Seriya
T. LXVII h, 19h9, S. 671-7h.—Bibliogr: S. 67h.

SC: Letopia' No. 33, 19h9

CA

10

Theory of the formation of co-chlorovinylmercury chloride from acetylene and mercuric chloride. I. V. Smirnov-Lamkov and F. A. Shilov (Inst. Org. Chem., Acad. Sci. Ukr. S.S.R. Kies). \* \*Doklady, Akad. Nauk S.S.S.R. 73, 723-5(1956). At 100, formation of cis-CHCl: CH-HgCl (D from C.H. and solid HgCl, involves an induction period of approx. In . That induction period is shortened very markedly by advance addit of some L. Addit, of the trans isomewhat the formation of L. That the difference of the effects of the cis-and the trans isomers is not due to the lower melting temp of L is demonstrated by the fact that at 124%, too, only an addit, of L suppresses the induction period and accelerates the reaction, whereas the same aim. (5%) of the trans isomer has a marked inhibiting action. It is the only product in the absence of CL ions, in their presence, the reaction is trimod and its product is the trans isomer. Formation of L is interpreted by a mechanism involving a 0-membered cyclic intermediate formed from C<sub>2</sub>H<sub>2</sub>, HgCl<sub>3</sub>, and L of the structure H, which decomp, into 2 L.

The trans isomer, being less polarizable in its HgCl group, is evidently not sufficiently active at 100 24% to form the cyclic intermediate. N. Thou

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SMIRNOV-ZAMKOV, I. V.

PA 174T7

USSR/Chemistry - Bromine Addition

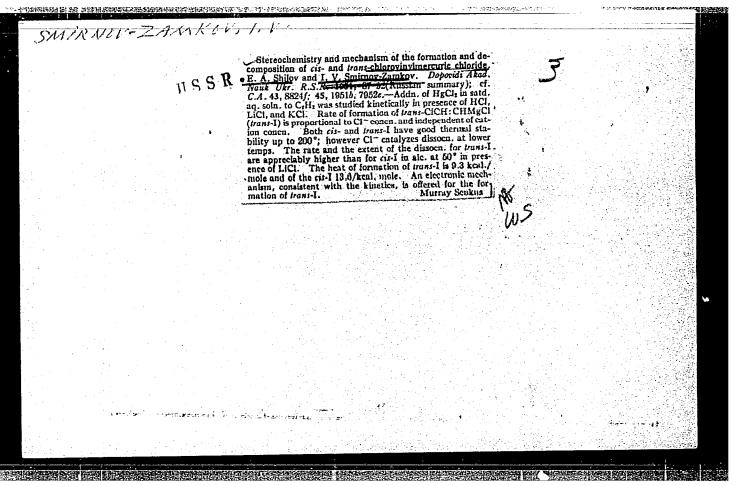
Jan/Feb 51

"Stereochemistry and Mechanism of Addition of Bromine by the Tertiary Bond," Ye. A. Shilov, I. V. Smirnov-Zamkov, Inst Org Chem, Acad Sci Ukrainian

"Iz Ak Nauk SSSR, Otdel Khim Nauk, No 1 pp 32-41

Shows addn of Br to dimethyl ester of acetylenedicarboxylic acid proceeds by either radical or donoracceptor mechanism. Radical reaction in various soln always yields cis- and trans-dibromides in approxequal proportions. Donor-acceptor reaction, observed in expt with admixt, yields only trans-isomer (dibromfumaric ester).

LC 17477



1.	SHYLOV.	IYE.	0	SMYRNOV-ZAMFOV.	I.V.
·	~~~~~,	~ ~ ~ .	~.,		

- 2. USSR (600)
- 4. Isomerism
- 7. Sterochemistry and the mechanism of the formation and disintegration of cis- and trans-chlorvinylmercurchlorides. Dop. AN URSR No. 2 1951.

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

SMIRNOV-ZAHKOV, I.V.

A.M.Butlerov as initiator of the teaching on the mechanism of organic reactions. Ukr.khim.zhur. 18 no.2:141-147 '52. (MLRA 6:9)

1. Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR.
(Chemical reaction--Mechanism) (Chemistry, Organic)
(Butlerov, Aleksandr Mikhailovich, 1828-1886)

SHIPP W-ZAPY V. I. V.

USSR/Chemistry - Hydrocarbons

21 Apr 52

"The Formation of a Cyclobutene Ring in Chlorination of Dimethylacetylene," I. V. Smirnov-Zamkov, Inst of Org Chem, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXIII, No 6, pp 869-871

The chlorination of dimethylacetylene by sulfuryl chloride shows that a cyclic dimer of dimethylacetylene with 2 chlorine atoms added to it is formed. The expts which were carried out prove definitely that treating of dimethylacetylene with sulfuryl chloride or chlorine will produce cyclobutene derivs.

223T7

#### CIA-RDP86-00513R001651620007-3 "APPROVED FOR RELEASE: 08/24/2000

SMIRNOV-ZAMKOV, I.V.

USSR/Chemistry - Organic chemistry

Card 1/1

Pub. 116 - 15/24

Authors

Smirnov-Zamkov, I. V. and Kostromina, N. A.

Title

The reaction of sulfuryl chloride with dimethyl acetylene

Periodical :

Ukr. khim. zhur. 21/2, 233-239, 1955

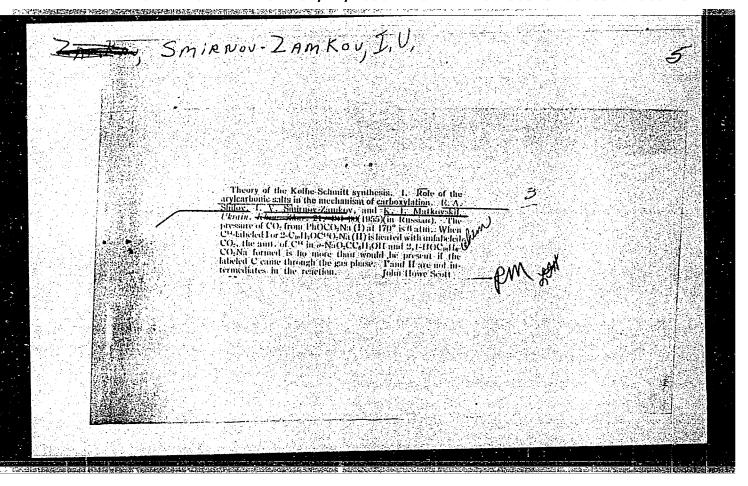
Abstract

The normal, addition and by-products formed during the reaction of dimethyl acetylene (2 moles) with sulfuryl chloride (1 mole) are described. The effect of the physico-chemical conditions and various additions on the reaction process and yield of dichlorotetramethylcyclo outene is analyzed. Experimental data are presented on the induction period of the reaction, effect of radical inhibitors and lighting, as well as on the radical chain mechanism of the reaction. Six references: 4 USSR, 1 USA and 1 German (1912-1952). Table.

Institution: Acad. of Sc., Ukr. SSR, Inst. of Organ. Chem.

Submitted

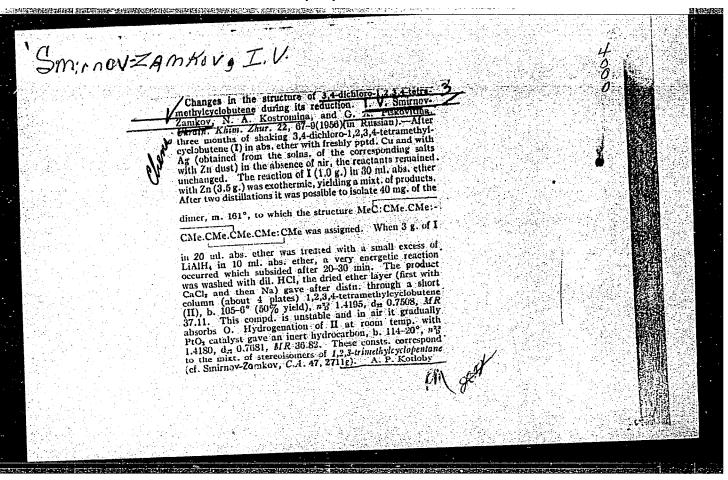
: December 14, 1954



SHILOV, Ye.A.; SMIRNOV-ZAMKOV, I.V.; MATKOVSKIY, K.I.

Theory of the Kolbe-schmitt synthesis. Part 2. Role of disubstituted salts in carboxylation. Ukr.khim.zhur. 21 no.5:600-613 '55. (MLRA 9:3)

lInstitut organicheskoy khimii AN USSR. (Carboxylation)



75-1-25/26 Smirnov-Zamkov, I. V.

Conference on problems of stereochemistry of chemical AUTHOR: (Sovesnchaniye po voprosam stereokhimii TITLE: reactions.

khimicheskikh reaktsiy).

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol.23, No.1, pp.129-130 (USSR)

ABSTRACT: The conference was held in Kiev, October 29-31, 1956. It was convened by the Scientific Council on the Theory of Chemical Structure, Kinetics and Reaction Ability of the Chemical Sciences Division, Ukrainian Ac.Sc. (Ucheniy sovetom po teorii khimicheskogo stroyeniya, kinetiki i reaktsionnoy soposobnosti pri Otdelenii Khimicheskikh Nauk AN SSSR) together with the Division of Chemical and Geological Sciences of the Ac.Sc. Ukraine (Otdelenii Khimicheskikh i Geologicheskikh Nauk AN USSR) and the Kiev Division of the All Union Chemical Society imeni D. I. Mendeleyev (Kievskiy otdelenii Bsesoyuznogo Khimicheskogo Obshchestva im. D. I. Mendeleyeva). In addition to Kiev chemists, over 30 scientists from other parts participated, mainly from Moscow, e.g. Academicians A. N. Nesmeyanov, V. N. Kondratiyev, B. A. Kazanskiy, I. N. Nazarov and others. The meeting

to the original compound, whereby the same configuration is conserved in all cases. O. A. Reutov reported on the mechanism of the electrophilic substitution in saturated

APPROVED FOR REMEASE 08/24/2006 ally active mercury-organic compounds; these reactions can take 13 machonism transforming the configuration depending on the mechanism which the author considered as the cases  $S_{E}^{2}$  and  $S_{E}^{1}$ In the discussion of of the British classification. these two papers much importance was attached to the discoveries from the point of view of the theory of organic transformations; in addition, it was mentioned

Card 2/5

73-1-25/26
. Conference on problems of stereochemistry of chemical reactions.

that the reported work should be supplemented by data on the kinetics of the reactions under consideration. The paper of Ye. A. Shilov was devoted to the mechanism of cis-compounds with short links. On the examples of the compounds of haloid-hydrogen acids and mercury salts with acetylenes, hydrating and oxidation of acetylenes and oleofins, the author showed that in heterolytic and catalytic reactions the formation of cis-derivatives takes place predominantly through complexes with ring structures. In free-radical compounds cis-isomers form in/non-stereo In the discussion some way as well as with trans-forms. of the views expressed by the author were disputed but not his fundamental assumptions. M. I. Kabachnika, S.T. Ioffe and K. V. Vatsuro have shown in their papers that the state of equilibrium between the ketone and the stereo cisand trans-enols depends on the constants of acidity of the components of the system. Personnel of the N.D. Kursanov laboratory presented two papers, one on the mechanism of alkylation of quaternary salts of ammonium (N.D.Kursanov and S.V. Vitt) and on the mechanism of re-ethering of methylether of benzoic acid applying simultaneously labelled atoms and optically active radicals (R.V.Kudryavtsev

Card 3/5

73-1-25/26 Conference on problems of stereochemistry of chemical reactions.

Exchange with the medium and presence and S.V. Vitt). or absence of rotation of the optically active radicals was dealt with within the framework of the "synchronous" and "asynchronous" mechanism proposed by these authors. The discussion revealed contradictions relating to the views on the nature and the importance of carbon in the mechanism of organic reactions. The wish was expressed to study this problem at a special conference of the Scientific Council on the Theory of Chemical Structure, Kinetics and Reaction Ability. G. A. Rudakov dealt with the mechanism of racemization of camphene. A.P.Terent'yev considered the problem of the factors bringing about the existence of optically active organic substances in nature. The author attributes particular importance to selective adsorption of right or left antipodes on asymmetric crystals of a certain configuration. It was mentioned in the discussion by Ye. A. Shilov that isolating of optically active substances could take place also without active "intermediaries" as a result of statistical conditions. Since optically active systems are biologically more favourable than racemine mixtures, active forms should suppress inactive ones in the biological evaluation.

Card 4/5

# SMIRNOV-ZAMKOV, I.V.

AUTHORS: Smirnov-Zamkov, I.V. and Piskovitina, G.A. 73-2-10/22

The mechanism of bromine addition to the dimethylester of acetylenedicarboxylic acid. (O mekhanizme prisoyedineniya broma k dimetilovomu efiru atsetilendikarbonovoy kisloty). TITLE:

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957,

pp.208-214 (ÚSSR).

E.A.Shilov and I.V.Smirnov-Zamkov (Ref.l: E.A.Shilov and I.V.Smirnov-Zamkov, Izv.AN SSSR, OKhN, 1951, 32) proved that the bromination of the ester of acetylene dicarb-ABSTRACT: oxylic acid in some organic solvents, under the absence of light, can proceed in 2 ways. In the absence of admixtures of bromide salts complete addition of bromine occurs and approximately equal quantities of dibromofum-arate and dibromomaleate are formed. In the presence of bromide salts bromine is added according to the transmechanism of the acceptor-donor mechanism in accordance

with the kinetic equation: card 1/3

$$-\frac{d\left[Br_{2}\right]}{dt} = kM\left[Br_{2}\right]\left[LiBr\right],$$

where M = the concentration of the ester of acetylene

CIA-RDP86-00513R001651620007-3" **APPROVED FOR RELEASE: 08/24/2000** 

73-8-10/82

The mechanism of bromine addition to the dimethylester of acetylenedicarboxylic acid. (Cont.)

There is 1 drawing, 7 diagrams and 2 Slavic references.

ASSOCIATION: Institute of Organic Chemistry, Academy of Sciences, Ukraine. (Institut Organicheskoy Khimii, AN USSR).

SUBMITTED: November 14, 1956.
AVAILABLE: Library of Congress

Cerra 3/3

# "APPROVED FOR RELEASE: 08/24/2000 C

CIA-RDP86-00513R001651620007-3

67894

Stereochemistry and Mechanism 6. Hydrogen Bromide S/020/60/130/06/023/059
Addition to the Dimethyl Ester of Acetylene- B011/B015
dicarboxylic Acid in Organic Acids

increases with the temperature decrease. 2) Outside this range the stereodirection of the reaction at higher temperature is practically independent of the latter. In propionic acid, the second case holds between 0 and 60°. In acetic acid, both cases hold: the first case between 10 and 40°, the second one between 40 and 80°. In the mixture of monochloro- and trichloroacetic acid, only the first case is valid between 25 and 40°. Equation (1) holds for each individual reaction type since the common third reaction order holds for all temperatures and all solvents. Value kz is therefore the sum of the reaction constants of the cis- and trans-addition. The values of the individual constants may be determined from the relation to the stereoisomer yields. Thus, the authors obtained the constants for each individual process, and calculated the activation energies (Table 2). The activation energies of the trans-addition proved to remain constant along the entire temperature range investigated. The energies of the cis-additions are, however, either very high or very low. The authors conclude therefrom that the trans-addition follows in all cases the same mechanism.

Card 2/4

67894

Stereochemistry and Mechanism of Hydrogen Bromide S/020/60/130/06/023/059
Addition to the Dimethyl Ester of Acetylene- B011/B015
dicarboxylic Acid in Organic Acids

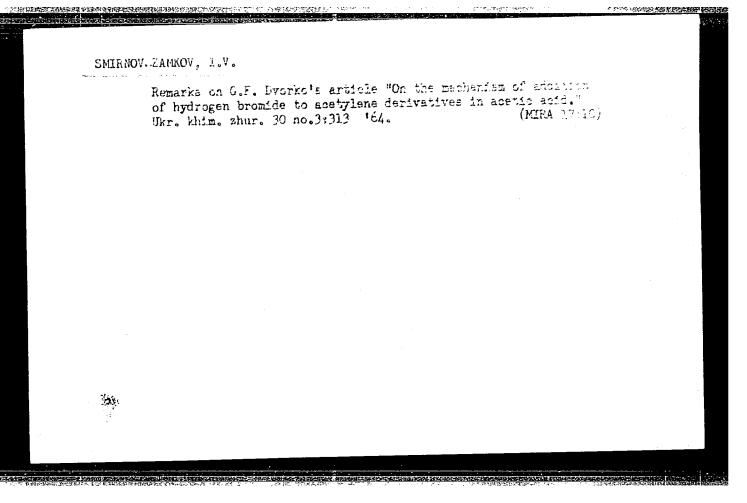
There are two mechanisms for the cis-addition: one of them requires a high activation energy which is by 2 kcal higher than that of the trans-addition. This mechanism occurs, therefore, at higher temperatures; the other mechanism requires a very low activation energy and is, therefore, prevailing at low temperatures. The authors assume that both trans- and cisaddition with a high activation energy are due to open trimolecular complexes (see Scheme). Cis-addition with a small activation energy apparently proceeds over a ring complex (see Scheme). The energy resulting from the process (taking place in two stages) (Ref 1) is obviously determined by the detachment energy of the proton in the final stage. The solvent may serve as a proton acceptor. The more basic the solvent, the lower is the activation energy due to the energy gain for the proton addition, e.g. to the carbonyl of the solvent. The activation energy of the processes taking place over open complexes therefore decreases in the following order: mixture of monochloro- and trichloroacetic acid - acetic acid propionic acid. In a ring complex, the detachment of the proton

Card 3/4

SMIRNOV-ZANKOV, I.V.; PISKOVITINA, G.A.

Stereochemistry and mechanism of addition of hydrobromic acid to cyclohexene. Ukr.khim.zhur. 28 no.4:531 162. (MIRA 15:8)

1. Institut organicheskoy khimii AN USSR.
(Hydrobromic acid) (Cyclohexene)



### CONTROL OF THE PROPERTY OF THE PROPERTY OF A MINISTRAL OF A MI

L 55038-65 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) Pc-4/Pr-4 RPL JM/RM

ACCESSION NR: AP5013783 UR/0073/65/031/005/0517/0518
541.127+541.64+678.675 30

AUTHOR: Smirnov-Zamkov, I. V.; Piskovitina, G. A.

TITLE: Interphase polycondensation of n-phenylene diamine with dichloroanhydride of isophthalic acid at the water-benzene interface

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 5, 1965, 517-518

TOPIC TAGS: kinetics, polycondensation, polymer, polymer chain, polyamine

ABSTRACT: The rate of growth of a polymer chain was determined as a function of

ABSTRACT: The rate of growth of a polymer chain was determined as a function of the time of contact of the reagents. The initial compounds used were n-phenylene diamine and the dichloroanhydride of isophthalic acid. The dichloroanhydride was purified by distillation in a vacuum and recrystallization. The jet method of polycondensation was used so that the time of contact of the two solutions could be varied from several hundredths to several tenths of a second. The reaction was carried out at the water-benzene interface with equal initial concentrations of the reagents. A predetermined amount of potassium hydroxide was added to the aqueous

Card 1/3

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620007-3"

SMIRNOY-ZAMKOV, I.V.; PISKOVITINA, G.A.

Kinetics of the interfacial polycondensation of p-phenylenediamine with isophthaloyl dichloride at the water-benzene interface. Ukr. khim.zhur. 31 no.5:517-518 165.

(min# 18:12)

1. Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.
Submitted Dec. 16, 1964.

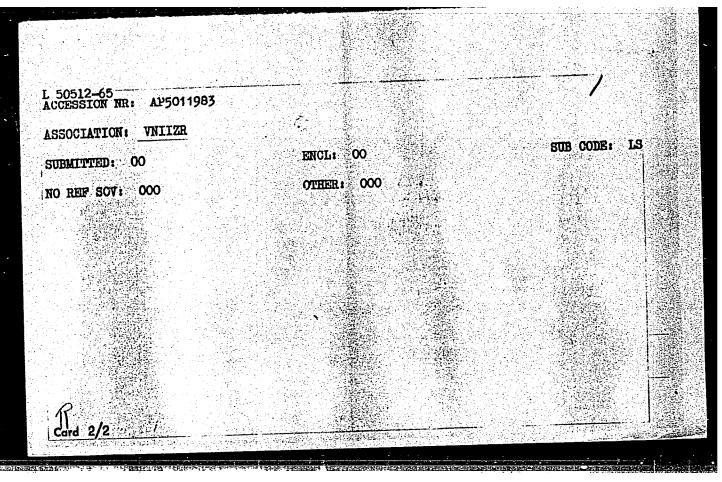
SMIRNOVA, A., kand. sel'skokhoz. nauk; SHABANOVA, M., kand. sel'skokhoz. nauk; IONOVA, Z.; FED'KO, I., kand. biolog. nauk; SHEVCHENKO, A., aspirantka; CHMYR', P., mladshiy nauchnyy sotrudnik

From work practices in the use of poisonous chemicals. Zashch. rast. ot vred. i bol. 10 no.3:22-24 '65.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy (for Smirnova, Shabanova). 2. Nauchno-issledovateliskiy institut sadovodstva im. I.V. Michurina, Michurinsk (for Ionova). 3. Vsesoyuznyy institut kukuruzy, Dnepropetrovsk (for Fed'ko). 4. Ukrainskiy institut rasteniyevodstva, selektsii i genetiki im. Yur'yeva (for Shevchenko).

ACCESSION NR: AP5011983	UR/0348/65/000/003/0022/0023
AUTHORS: Smirnova, A. (Candidate of agric late of agr <del>icultural sci</del> ences)	ultural sciences); Shabanova, M. (Candi-
TITLE: Results of testing trichlorometaph	のB 77 3
SOURCE: Zashchita rasteniy ot vrediteley TOPIC TAGS: agriculture, pesticide, biolo	i bolezney, no. 3, 1965, 22-23
also called Ronnel Dau ET-57. It is, howe animals. Tested in 0.1-0.2% emulsion agai	ed by N. N. Mel'nikov et al ("Zashchita alogue of the foreign preparation trolene, ver, less dangerous to warm-blooded nst 42 species of arthropods, it proved caterpillars, producing 80-99% mortality. In was equally beneficial in fruit and contact-active insect- and acaricide. It at high temperatures and on intensive

"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620007-3



SMIRNOV., A.A., meditsinskaya sestra.

New York Communication of the rectum. Med.sestra no.1:26-28 Ja '54.
(MLRA 7:1)

1. Bol'nitsa im. S.P.Botkina (Moscow).
(Rectum--Cancer) (Nurses and nursing)

SMIRNOVA, A.A., med.sestra

Postoperative care of patients with mental disturbances in the neurosurgical clinic. Med.sestra 17 no.10:45-47 0 '58 (MIRA 11:11)

1. Iz Nauchno-issledovatel skogo ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni akademika N.N. Burdenko ANN SSSR, Moskva. (POSTOPERATIVE CARE)

(POSTOPERATIVE CARE)
(NERVOUS SYSTEM—SURGERY)

Preulimitial

SMIRNOVA, A. A. Cand Med Sci -- (diss) "Characteristics of the Characteristics of the Distribution of the Branche's of the Uterine Arter in Management of the Branche's of the Uterine Arter in Management of the Cross-Section by Age." Rostov-on-the-Don, 1957. 19 pp 20 cm. (Rostov-on-the-Don State Medical Insct), 200 copies (KL, 18-57, 98)

- 60 -

USSR / Human and Animal Morphology (Normal and Pathological). Circulatory System. Blood Vessels.

S

Abs Jour

: Ref Zhur - Biologiya, No 1, 1959, No. 2960

Author

: Smirnova, A. A.

Inst

: Rostoy-on-Don Medical Institute

: Variations of Uterine Artery Approaches to the Uterus

Title

and Its Division into Terminal Branches

Orig Pub

: Tr. Otchetn. nauchn. konferentsii (Rostovsk.-n/D med.

in-t) za 1956 g. Rostov-na-Donu, 1957, 181-183

Abstract

: Using the method of roentgenography and corrosion on 198 specimens of the uterus (U) of humans, of 0-80 years of age, it was established that there are 4 basic variants in approaches of uterine arteries (UA) to U: the right and left UA approach the lateral edges of U on different levels (26.1% of cases), both UA approach the U on the level of mid-cervix (29.4%), closer to the

Card 1/2

33

USSR / Human and Animal Morphology (Normal and Pathological) 3R001651620007-3" APPROVED FOR RELEASE: 08/24/2000

Circulatory System. Blood Vessels.

i Ref Zhur - Biologiya, No 1, 1959, No. 2960 Abs Jour

> lower end of the cervix of U (23.5%), closer to the upper end of the cervix of U (20.9%). In 40% of cases each UA divides into the ovarian and fundic branches; in 27.4% it divides into ovarian branch and a common branch for the fundus U and ovarian tube; in 17% it divides into a fundic branch and a common branch for the ovary and the tube; in 5.8% it divides into 3 branches, namely, fundic, overian and tubal; in 1.3% it branches into fundic and tubal and a branch to the round ligament; and in 8.5% of cases an asymmetrical division of right and left UA was observed.

SMIRNOVA, A.A.

Distomiasis of the brain. Zhur. nerv. psikh. 60 no. 4:447-542 60. (MIRA 14:4)

l. Sovetskiy gospital¹ Krasnogo Kresta v Pkhen'yane (dir. N.N. Baranova).

(BRAIN-DISEASES) (DISTOMATOSIS)

BAYADIN, L.N.; LOEUSEV, A.V.; PROSHINA, K.A.; SHIRNOVA, A.A.; SHELEPINA, L.A.

Experimental data on plastic arterial surgery in case of an infected wound; preliminary report. Trudy 1-go MMI 16:139-146'62.

(MIRA 16:6)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. - chlen-korrespondent AMM SSSR prof. V.V.Kovanov) Pervogo Moskovskogo ordena Lenina meditsinskogo instituta.

(ARTERIES—SURGERY) (SURGERY, PLASTIC)

SMIRNOVI, A.	/1.	
	The effects of different methods of sauerkraut-making on lts vitamin C content. O: P. Maikova, B. I. Khanina, and A. A. Smirnova, Trudy Leningrad. Sanit. Gigien. Med. 7nst. 14, 167-61 (1953); Referat. Zhur. Khim., Biol. Khim., 1955, No. 3387.—The use of Lactobacillus acidophilus starters is beneficial to the preservation of vitamin C.  B. S. Levine.	
		Beties

SMIRNOV, Aleksey Aleksandrovich; YUN'YEV, V.S., otv.red.; GOLUBYATNIKOVA, G.S., red.izd-va; KOROVENKOVA, Z.A., tekhn.red.

[Economics, production organization and planning in the coal mining industry] Ekonomika, organizatsiia proizvodstva i planirovanie v ugol'noi promyshlennosti. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po gornomu delu, 1959. 334 p. (MIRA 13:1) (Coal mines and mining)

SMIRNOVA, A.A.; MAL'KOVA, I.S.

Lengthening the rolls of cord fabrics. Knim.volok mo.4:73-74
'62. (MIRA 15:8)

1. Krasnoyarskiy zavod. (Krasnoyarsk—Tire fabrics)

NUDEL MAN, B.I., inzh.; SMIRNOVA, A.A., inzh.

Changes in some properties of artificial porous aggregates in the process of hardening lightweight concrete. Stroi. mat. 9 no.5:34-36 My 163. (MIRA 16:7)

(Aggregates (Building materials))
(Lightweight concrete)

#### 

BRYKINA, M.M.; MAKSIMOV. M.M.; POLIKARPOVA, R.V.; RYBIN, F.S.; SMIRNOVA, A.A.

Comparison of the properties of reservoir rocks in level  $D_1$  of the central section of the Minnibarevo region based on field data and data obtained with the EI-S electric integrator. Nauch-tekh. sbor. po dob. nefti. no.21:3-13 '63. (MIRA 17:5)

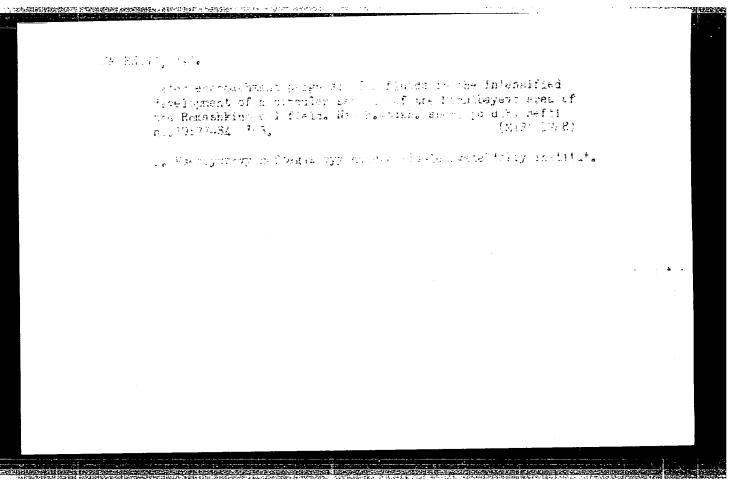
1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

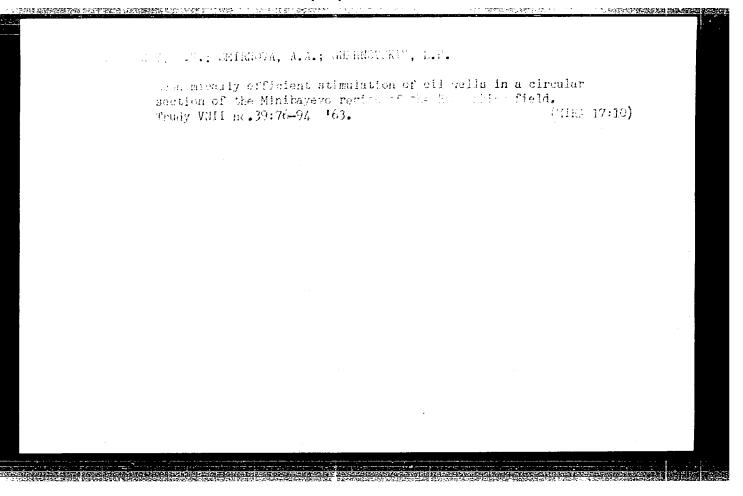
SMIRNOVA, A.A., kend. med. nauk: KRAZOV, F.D.

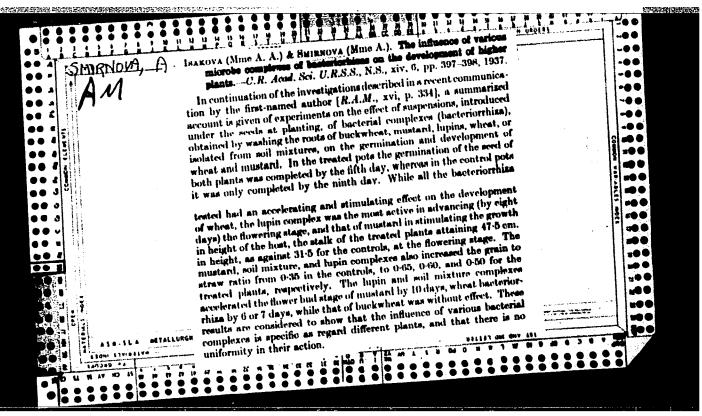
Neurodystrophic calcifications and capifications. Vector rent. 1 rad. 38 ac.3:71=72 My=Je 463. (MFEA 17:7)

1. Iz kefetry rentgenologii i meditzinskoy radiologi (isprinyayushoniy obyezannosti zav. - dotseni V.I. Skotnikov) Ryazenskogo meditsinskogo anstituta imeni akad. 1.F. Pavlova na baze Oblastnoy klinicheskoy bolimitsy imeni N.A. Semashko (glavnyy miaen - zasluzhennyy mrach BOFSE B.N. Shirckit).

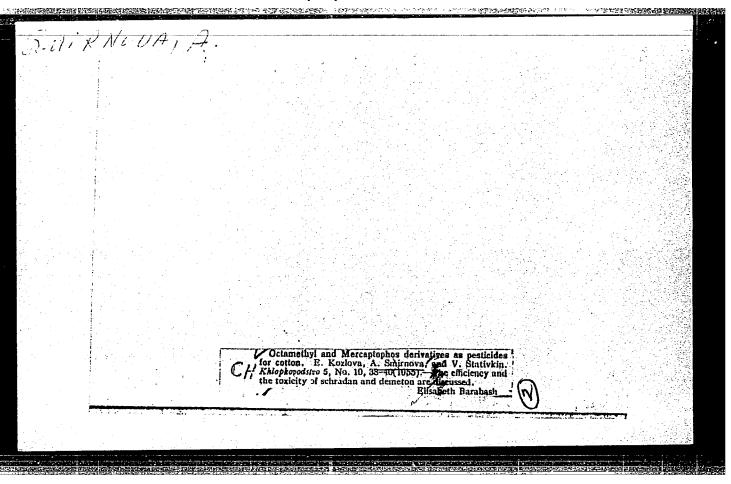
APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620007-3"







New moistening agents for apraying with contact insecticides and acardoides.
Pokl. Ak.sel'khoz 17 No. 2, 1952.
"LF4, August 1952



SMIR NOVA, A.A.

Insects. USSR / General and Specialized Zoology. Insect and Mite Pests.

P

: Rof Zhur - Biol., No 10, 1958, No 44803

abs Jour : Kozlova, Ye. N.; Smirnova, A. A.; Stativkin, V. G.; Dvortsova, Ye. I.
All-Union Institute for Plant Protection Authors

: The Basis and Development of Mothods for the Inst Title

Protection of Cotton from Sucking Pests Using

Systemic Insecticides.

: Tr. Vsos. in-ta zashchity rast., 1956, vyp. 7, Orig Pub

9-32.

: According to experiments made by the All-Union Institute for Plant Protection the length of ac-Abstract

tion by mercaptophos (M) and octamethyl (O) on sucking pesta of cotton depended on the concentration of the insecticide in the plant fibres, which was determined by the spraying rate of

Card 1/3

USSR / General and Specialized Zoology. Insects.
Insect and Mite Pests:

2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44803

length of effect on the pests to M, but are less toxic to warm-blooded animals; they are more suitable for use in agriculture. The treatment of cotton with O and especially with M did not decrease the quality of the fibers, the oil content or the germination of the seeds. -- A. P. Adrianov.

Card 3/3

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ASKARIYAN, G.A.; RABINOVICH, M.S.; SAVCHENKO, M.M.; SMURNOVA, A.D.

Detection of a quick photoionization hald and a cloud of a contrated long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a laser long-lived ionization from a shock wave produced by a spark in a shock wave long-lived ionization from a shock wave produced by a shoc

EWT(1)/T/EWA(m)-2 IJP(c) f 10958-66 0386/65/002/011/0503/0506 SOURCE CODE: ACC NR: AP6002464 44,55 44,55 44,55 AUTHOR: Askar yan, G. A.; Rabinovich, M. S.; Smirnova, A. D.; Studenov, V. ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskiy institut Akademii nauk SSSR) TITLE: Polarization of the ionization halo during air breakdown in a constant electric field SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis ma v redaktsiyu. Prilozheniye, v. 2, no. 11, 1965, 503-506. TOPIC TAGS: laser, nonlinear optics, laser pulsation, gas conigation, electric full, loser beam 21,44,55

ABSTRACT: The ionization halo formed during gas breakdown at the focus of a beam from a 0-spoiled laser was investigated by from a Q-spoiled laser was investigated by studying its polarization due to an applied electric field,  $E_0 = 10 \text{ v/cm} - 1 \text{ kv/cm}$ , at the focus. In the first series of experiments, the quickly varying field perturbations generated during formation of the halo were registered by a thin probe with a dielectric sheath placed perpendicularly to the electric field at a distance of approximately 1 cm above the breakdown. The duration of a signal from the probe (30-50 usec) was close to that of the laser pulse. Its amplitude  $E_m$  increased linearly with the increasing electric field ( $E_m/E_0 \simeq 0.5 \times 10^{-3}$  cm). By comparing the signal from the probe with the characteristics of the halo, it was established that the region from which the field was forced out  $(\alpha_{eff})$  was -1 cm. In the other series of experiments the Card 1/2

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ACC NR: AP6002464

breakdown occurred between two flat electrodes with a potential difference  $\Delta v$  placed relatively far away from each other. One of the electrodes was grounded through a 75-ohm resistor, and the current flowing toward the electrode was measured. It was confirmed that  $\alpha_{eff} \stackrel{\sim}{\sim} 1$  cm. In the experiments it was established that the photoeffect of the spark formed during the breakdown and the photoelectric effect associated with the surfaces of the electrodes could be neglected. The ionization of the gas was attributed to the multiphoton absorption in the ultraviolet region of the spectrum or to absorption of kv x-ray photons emitted by the hot plasma in the breakdown region. The authors also discovered a rapidly generated intrinsic dipole moment of the spark, the direction of which is opposite to the light beam. This dipole moment is probably associated with light pressure or thermoelectric effects. Orig. art. has: 2 figures. [CS]

SUB CODE: 20 / SUBM DATE: 180ct65/ ORIG REF: 001/ ATD PRESS: 4/70

Card 2/2

Moromological features of crystals of GaP. G. V. Averkiyeva, A. S. Borsnenevskiy, G. K. Kalyumhnaya, A. D. Smirnova, D. K. Tratiyakov, N. K. Takhtareva (10 minutes).

Features of the growth of crystals of silicon carbide of the cubic modification from the gaseous phase. A. A. Pletyushkin, S. N. Gorin, L. M. Ivanova (10 minutes).

Investigation of the physical properties of semiconducting compounds with the lattice of ZnS and NaCl in the melting region and liquid state. V. M. Glazov, S. N. Chizhevskaya, N. N. Glagoleva (10 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

ACCESSION NR: AP4041359

S/0048/64/028/006/0985/0988

AUTHOR: Borshchevskiy, A.S.; Kalyuzhnaya, G.A.; Smirnova, A.D.; Takhtareva, N.K.; Tret'yakov, D.N.

TITLE: Morphological characteristics of laminar gallium phosphide crystals /Report, Third Conference on Semiconductor Compounds held in Kishinev 16-21 Sep 1963/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 985-988, and insert facing p. 966

TOPIC TAGS: crystal structure, crystal growth, gallium compound

ABSTRACT: Gallium phosphide crystals were obtained by slowly cooling dilute solutions of phosphorus in gallium and subsequently separating the precipitated crystals from the excess gallium, as proposed by G.Wolff, P.H. Keck and J.D. Broder (Bull. Amer. Phys. Soc. 29, 116, 1954). The crystals thus obtained had the zincblende structure, were laminar in form with the (111) faces developed, and ranged in size from 15 x 10 x 1 mm<sup>3</sup> to a few hundred microns. The pure crystals were light orange in color and uniformly transparent. The crystal plates had the form of equilateral triangles, 60° rhombi, regular hexagons, or were of mixed shape. A drawing showing the faceting of the simplest rhombic crystals is given in Fig.1 of the Enclosure. The two

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ACCESSION NR: AP4041359

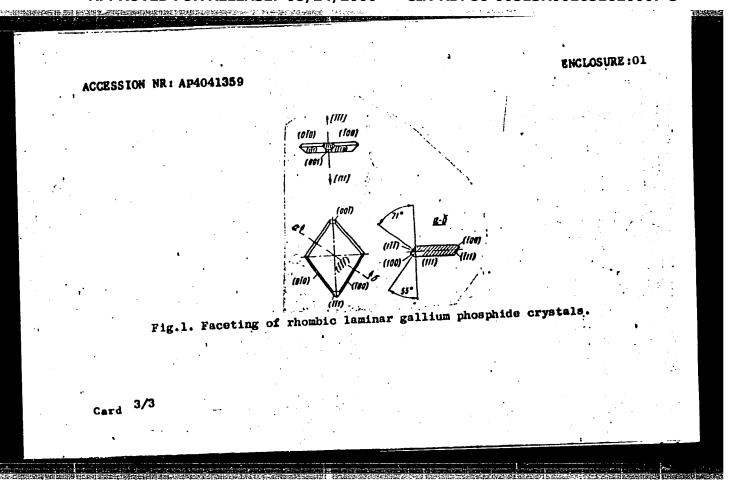
well developed (111) faces reacted differently to etching with HCl: one face retained its initial specular luster, and the other acquired a mat surface. This polarity is attributed to the regular alternation of planes consisting of gallium or phosphorus atoms respectively. Triangular etch pits marking dislocations were observed on the (111) faces. The dislocation density varied greatly even from place to place on the same crystal, and the total variation among the crystals was from  $10^3$  to  $10^6$  cm<sup>-2</sup>. Twinning planes parallel to the developed (111) faces were found; the twinning appeared to involve rotation of the two portions of the crystal about the (111) axis. Dark lines were also observed marking the long diagonal of the rhombic plates; these are believed to mark the central portion of the dendritic structure. The growth of the crystals is discussed at some length in rather general terms. It is concluded that the laminar form is a consequence of the non-equilibrium conditions and the excess of one component, that more than one growth mechanism is involved, and that growth probably proceeds differently in the (111) and the (111) directions. Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: SS,IC Card 2/3

NR REF SOV: 001



ACCESSION NR: AP4011441 S/0076/64/038/001/0089/0095

AUTHORS: Komandin, A. V. (Moscow); Smirnova, A. D. (Moscow)

TITLE: The thermodynamic aspect of dielectric relaxation processes

in glycerin esters.

SOURCE: Zhurnal fiz. khim, v. 38, no. 1, 1964, 89-95

TOPIC TAGS: dielectric constant, dielectric losses, glyceryl acetate, hydroxybenzoate, enthalpy, entropy, dielectric relaxation, acetic acid, glycerin derivatives, thermodynamic functions

ABSTRACT: This article deals with the measurements of the dielectric constants and tangent of dielectric losses of  $\emptyset$ ,  $\gamma$ -glyceryl acetate and  $\alpha$ -glycerin ester of o-hydrobenzoate in a liquid and supercooled liquid state at different frequencies of the electric field and in a wide range of temperatures. The free energy, enthalpy and entropy characterizing the dielectric relaxation processes were calculated from the resulting measurements. The relaxation time of the glycerin derivates is closely associated with the nature of the substituting groups. The substitution of the hydrogen in the glycerin by simpler

Card 1/2

ACCESSION NR: AP4011441

radicals reduces the relaxation time, whereas the substitution by more complex radicals prolongs the dielectric relaxation time to a considerable extent. The dispersion of the dielectric constant of d, 4-glyceryl acetate has been determined for five temperatures ranging from -20 to -50C, and the dispersion of a-glyceryl o-hydroxybenzoate has been determined at 40, 30 and 20C. The temperature dependence of the dielectric constant and the loss tangent have been determined by L-glyceryl c-hydroxybenzoate over a given temperature range. The connection between the thermodynamic functions and the chemical structure of the investigated compounds is under discussion. Orig. art. has: 3 Figures, 6 Formulas and 6 Tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni V. M. Lomonosov (The V. M. Lomonosov Moscow state university)

SUBMITTED: 24Jan63

DATE ACQ: 14Feb64

ENCL: 00

CUB CODE: CH

NR REF SOV: 006

OTHER: 003

Card 2/2

ACCESSION NR: AP4033413

8/0076/64/038/003/0783/0785

AUTHOR: Komandin, A. V.; Smirnova, A. D.

TITIE: Dielectric properties of liquid benzophenone

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 3, 1964, 783-785

TOPIC TAGS: benzophenone, dielectric loss, dielectric permeability, relaxation process, thermodynamic function

ABSTRACT: The article describes the measurements of dielectric permeability and the tangent of the angle of dielectric losses for liquid benzophenone in the 95 to -55 C interval at 50 kc, 800 kc and 20 Mc as the frequency of the external field. The measurement of dielectric properties was conducted by the resonance method. The accuracy of dielectric permeability measurement was ± 1 %, dielectric losses ±(5 - 10) %, and the accuracy of temperature measurements was ± 0.1 deg. It was found that with lowering of the temperature the dielectric permeability of liquid benzophenone increases, reaching a maximum, after which it rapidly falls to small values, which characterizes the deformation polarization. At the temperature of the maximum of dielectric permeability the tangent of the dielectric

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51299-65 EWT(1) IJP(c) UR/0386/65/001/001/0009/0015 CESSION NR: AP5013664	
THOR: Askar'yan, G. A.; Rabinovich, M. S.; Savchenko, M. M.; Smirnova, A. D.	
TLE: Light spark in a magnetic field 2(  DURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  Pilozheniye, v. 1, no. 1, 1965, 9-15	
PIC TAGS: laser, laser induced spark, laser air breakdown, laser induced plasma, ontrolled fusion reaction	
BSTRACT: The first results of experiments with a laser-induced spark in an external dependent of spark plasma based on diamagnetic induction signals, and to study evelopment of spark plasma based on diamagnetic induction signals, and to study he spark-field interaction as applied to plasma containment, acceleration, and in ection into mirror machines. A Q-switched laser was used in the experiments. The ection into mirror machines. A Q-switched laser was used in the experiment external dec magnetic field was 10 kee. The most striking result of the experiment as the long duration of the diamagnetic plasma (of the order of several microact the long duration of the diamagnetic plasma (of the order of several microact seconds), which was bracketed by initiation and damping signal pulses on a baseling econds), which was bracketed by initiation of the prolonged magnetic moment is not	e 8
econds), which was bracketed by initiation and damping organization of usec long. The mechanism of formation of the prolonged magnetic moment is not are 1/2	

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CCESSION NR: AP5013664  lear. However, the effect may nto the spark plasma by h-f ex nergy input. Orig. art. has:	4 formulas and 1 figure.	
nergy input. Orig. art. has. SSOCIATION: Fizicheskiy insti Institute of the Academy of Sci	tut im. P. N. Lebedeva Allences, SSSR)  ENCL: 00	SUB CODE: EC,⊭M
UBMITTED: 03Feb65	OTHER: 003	ATD PRESS: 4014
O REF SOV: 006		
。1977年1976年,刘孝宗教是李成的隐僚等和数据数据数据数据。1977年,1977年,1977年,1977年,1977年		

EWA(k)/FBD/FWG(p)/EWT(1)/EPF(c)/EEC(k)-2/EPA(w)-2/T/EEC(b)-2/AP5019591 SCTB/IJP(c) WG UR/0386/65/001/006/0018/002 UR/0386/65/001/006/0018/0023 L 64154-65 ACCESSION NR: Savchenko, M. M. Smirnova Rabinovich, M. S.; Α.; G. Askar'yan, AUTHOR: TITLE: Discovery of a fast photoionization halo and a cloud of concentrated long lived ionization from a shock wave of a breakdown in the laser beam SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 1, no. 6, 1965, 18-23 TOPIC TAGS: laser, breakdown, photoionization, ionization, plasma, laser beam, multiphoton absorption, gas breakdown ABSTRACT: The results are presented of an experimental study of the ionization halo produced during breakdown of a gas by a laser beam in the region of the breakdown. The laser beam from a Q-switched laser with a rotating prism was focused between a horn equipped with a detector and an antenna of an 8-mm oscillator by means of a lens with a 5-cm focal length. This arrangement made it possible to make simultane ous measurements of the transmitted and reflected microwave radiation displayed on an oscilloscope. A comparison of the degree of attenuation of the microwaves determined from the change in the detector current and the current corresponding to the voltage at the time of the appearance of the breakdown shows that microwave radia-Card 1/2

in the halo is relatively long, occurs within a period less the served an ionization halo cause beam, where the radiation is pland scattering by this halo sho radiation. The high degree of the shock wave near the region	itut im. P. N. Lebedeva Akademii	heated by the laser re. The attenuation h of the microwave photoionization and elatively long life- [CS]  i nauk SSSR (Physics
SUBMITTED: 10May65	ENCL: 000	SUB CODE: OP  ATD PRESS: 4065
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, 35355-66 EWT(m)/T/EWP(t)/ETI ACC NR: AR6017804	BOUNCE CODE. 014 017 7
AUTHOR: Borshchevskiy, A. S.;	Kalyuzhnaya, G. A.; Smirnova, A. D.; Takhtareva, N. K.
TITIE: Influence of impuritie phide from metallic solutions	es on the crystallization of gallium arsenide and phos-
- A3 -	1A552  1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn.
TOPIC TAGS: gallium compound,  ABSTRACT: The authors investi and rare-earth metals (Me) as lization of GaAs and GaP from assertallization conditions van	gallium arsenide, crystallization, crystal impurity igated the influence of Cu, Zn, Cd, Si, Ge, Sn, Se, Te, contained in the gallium as impurities on the crystalliquid solutions. The amounts of impurities and the ried over a wide range. Estimates are given of the ried over a wide range.
chemical activity of the obtained thermal-emf coefficients.	The coefficients of effective distribution in Garlution is KeffZn = 0.02, KeffTe = 0.4, and KeffS = 1.3. als with prescribed impurity content were obtained.
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SMIRNUVA, A.D.

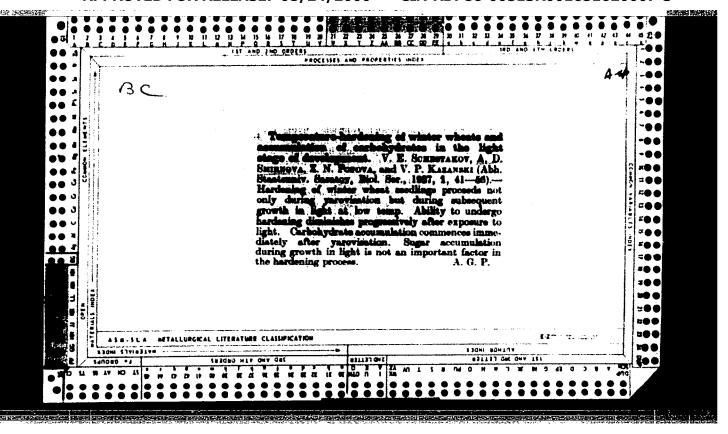
Spring-fed bogs in the vicinity of the village of Srednyaya Us'va (Central crals). Bot. zhur. 50 no.4:571-576 Ap 65. (MIRA 18:5)

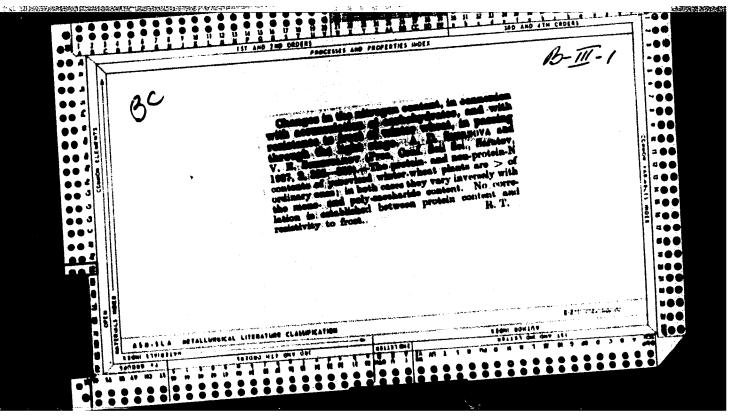
1. Gosudarstvennyy universitet imeni Lobachevskogo, Gor'kiy.

SOURCE CODE: UR/0275/66/000/003/B015/B015 ACC MRIARGO21761 AUTHOR: Borshchevskiy, A. S.; Kalyuzhnaya, G. A.; Smirnova, A. D.; Takhtareva, N. K. TITLE: Effect of impurities on crystallization of gallium arsenide and phosphide from metal solutions SOURCE: Ref. ch. Elektronika i yeye primeneniya, Abs. 3B117 REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn. in-ta. Kishinev, 1965, 65-66 TOPIC TAGS: gallium arsenide, gallium phosphide, crystallization, semiconductor ABSTRACT: The effect of Cu, Zn, Cd, Si, Ge, Sn, Se, Te, and rare-earth metals as impurities in Ga upon the crystallization of GaAs and GaP from liquid solutions of Ga with As and P was studied. The amount of impurities and the conditions of crystallization were widely varied. The chemical activity, electric conductivity, hardness, and thermo-emf of the resulting GaAs and GaP crystals were measured. In GaP crystallization from delute solutions, the effective distribution coefficients were: Zn -- 0.02, Te -- 0.4, S -- 1.3. Slaty crystals of GaP and GaAs with specified impurity contents were produced. A. R. [Translation of abstract] SUB CODE: 09 20, 

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Smirm vo, A. D. "On certain mare forms of plants of the northern parts of Rostrom Smirm vo, A. D. "On certain mare forms of plants of the northern parts of Rostrom and Rimov Oblasts and the Thrust ASSR", Ichen. zapiski Gor'k. pos. on-ta, Indee 14, 2019, P. 127-37, - Mibling: p. 137.

50: U-4631, 16 Sept. 53, (Letopis 'Churnal 'my kin Statey, No. 24, 1949).

Chirnous, A. D. MCD certain forms which are rare solves for the flore of morthly Chiest and the Party Accom, lower, replack Forth, gos. ch-ba, Issur 16, 1989, p. 139-26, - 1 lieg: 10 items.

So: V-2611, 16 Lept. 53, (Lete] is Theread in the Stater, to. 22, 1989).

Amirnova, A. J. "Morson of the Directors of torograms in the chvirons of the Desert Biological Utation of the Worlding table University", Uchen. zapiski Gorik. god. 11-15, Issue 1h, 1949, p. 149-60.

20: U-1631, 16 Cept. 53, (Letopis 'Zhurmal 'nykh Statey, No. 2h, 1949).

Systematism of Folytrichum Gwartzii Marta", Botan. Zhur, 34, Mo. 4, 1949. State U. Gor'kiy. -cl)\*/)-.

"THEOVI, A. J. and KILLCARAYA, T. V.

"The Utilization of Mysochies in Flunting Amorns in the Arid Environment of A Saratov Colast", Les i Stell (Forest and Stelpe), No. 2, 17 29-37, 1950,

SMIRNOVA, A.D.

Types of spruce forests in the extreme north of the Kirov Province; part
(MLRA 6:6)

1. Uch.zup.Gor'.un. no.19:195-223 '51.
(Kirov Province--Spruce)

#### CIA-RDP86-00513R001651620007-3 "APPROVED FOR RELEASE: 08/24/2000

USSR/Microbiology - General Microbiology.

F-l

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 9777

Author

Bekker, Z.E., Ostroukhov, A.A., Smirnova, A.D., Kosheleva,

N.A., Fadeeva, N.P.

Inst

Title

: Growth Manifestations in Submerged Cultures of Peninillium

Chrysogenum Thom.

Orig Pub

: Antibiotiki, 1956, 1, No 3, 40-47

Abstract

: Mycelial cells of P. chrysogenum Q 176 in a submerged culture on a Stoum and Farrel medium in a 1000 liter apparatus with mixing at 200 rpm and aeration of 1 volume of air per volume of medium per minute, undergo very characteristic transformation during cultivation, which may be provisionally represented in the form of 6 growth phases. The I phase: germination of conidia (begins in 13-24 hours from the time conidia are inoculated in the nutrient medium). Conidia swell and form one or several growth tubes.

Card 1/4

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620007-3"

USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9777

II. phase: Expansion of hyphae (begins in 36-48 hours from the time of conidia inoculation in the nutrient medium). Still no activity is manifested in the culture liquid.

III phase: Accumulation of reserve substances (observed after 48-56 hours from the time of conidia inoculation or after 24-36 hours from the time of mycelium transplantation from the inoculating apparatus to the fermentation apparatus). Large numbers of fatty inclusions appear.

Activity of the culture liquid is very low. IV phase: Disappearance of fatty substances and the beginning of vacuolization (observed after 36-48 hours from the time of transplanting inoculated mycelium into the fermentation apparatus). Activity of the culture liquid is

notably increased. V Phase: Formation of large central vacuoles (observed in 48-72 hours from the time of transplanting the inoculated

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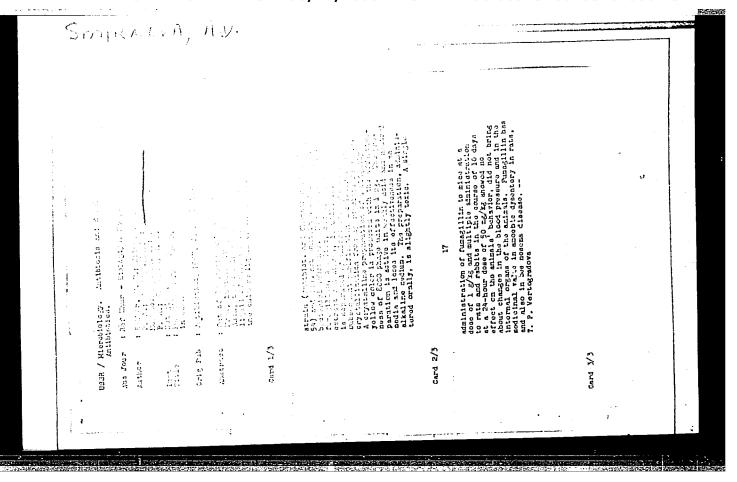
USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9777

The second stage-- from IV to VI growth phases-- is characteristic of reduction and a prevalence of dissimilation of reserve substances. The second stage of development is chiefly connected with the process of penicillin formation. Results of observations on development of penicillin production in a submerged culture are used for microscopic control of fermentation in production.

Card 4/4



MAKSIMOVA, R.A.; BEKKER, Z.E.; SMIRNOVA, A.D.

The fumagillin producer and problems in fermentation. Antibiotiki (MIRA 13:2) 4 no.5:14-19 S-0 159.

1. Laboratoriya antibiotikov biologo-pochvennogo fakul\*teta Moskov-skogo gosudarstvennogo universiteta i Vsesoyuznyy nauchno-issledo-vatel\*skiy institut antibiotikov.

(ASPERGILLUS)

(AMEBICIDES)

The large of the constraint of the same	Physilogical re	ole of mycorhiza	. Uch. zap. Sa	ar. un. 64:133. [MIRA 1]	3:9)	
		(Mycorhiza)				
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L 27207-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD ACC NR: AP6011568 SOURCE CODE: UR/0051/66/020/003/0499/0501
AUTHORS: Oksman, Ya. A.; Smirnov, V. N.; Smirnova, A. D.:
Tret yakov, D. N.
ORG: none
TITLE: High frequency electroluminescence of polycrystalline gallium
phosphide A
SOURCE: Optika i spektroskopiya, v. 20, no. 3, 1966, 499-501
TOPIC TAGS: gallium optic material, phosphide, electroluminescence, light excitation, luminescence center, experience
ABSTRACT: The authors present new experimental data which make it possible to make some assumptions concerning the mechanism of high frequency electroluminescence of powdered GaP. The powder was prepared from electroluminescence of powdered GaP. The powder was prepared from platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained from platelike GaP obtained by a method described by A. S. Borshchevskiy et platelike GaP obtained from pla
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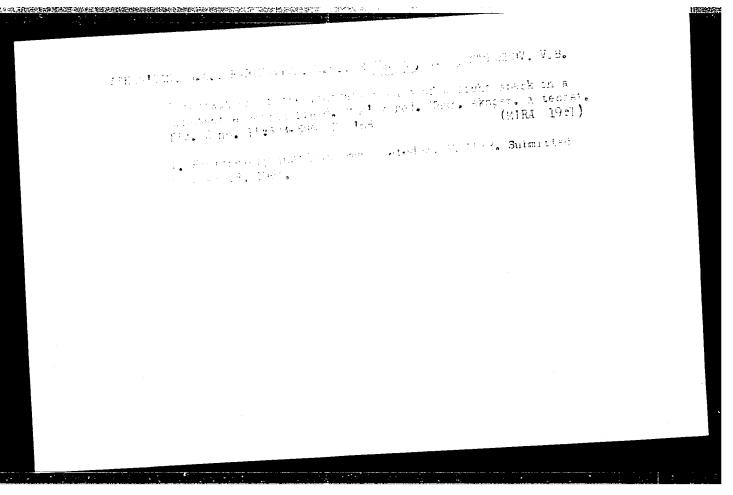
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ACC NR: AP6011568

The electroluminescence was excited by microwave pulses of 50 microseconds, with a repetition rate 50 -- 100 cps. The electroluminescence was registered through a window in the Dewar glass using a monochromator and photomultiplier. Alloying with zinc increased the electroluminescence intensity. The electroluminescence maximum was at 685 nm at 77K and 710 nm at 300K, in agreement with published data. The dependence of the electroluminescence brightness on the field intensity was proportional to a power-law function with exponents 2.5 -- 3.3, and the frequency dependence of the brightness was close to linear. It is concluded on the basis of the experimental data that the most probable mechanism of high-frequency electroluminescence of polycrystalline GaP is impact excitation of the lattice and of the centers, without participation on the part of the internal inhomogeneities of the crystal. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 29May65/ ORIG REF: 002/ OTH REF: 003

Card 2/2 60



15773-66 EEC(k)-2/EWP(k)/EVT(1)/EVT(m)/T/EWP(e) IJP(c) WH/W3
AP6031986 SOURCE CODE: UR/0386/66/004/005/0177/0180

AUTHOR: Askar'yan, G. A.; Rabinovich, M. S.; Smirnova, A. D.; Stepanov, V. K.; Studenov, V. B.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskiy in-gstitut Akademii nauk SSSR)

TITLE: Excitation of signals in a negatively charged post of an antenna under the influence of an unfocused laser beam of

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 5, 1966, 177-180

TOPIC TAGS: laser application, shf antenna, electron emission

ABSTRACT: The authors describe the results of an investigation of current pulses produced when an unfocused laser beam strikes a metallic electrode or a post that serves as an antenna, on which a negative potential is applied. An ordinary Q-switched ruby laser was used, whose beam was aimed onto an antenna post located several meters away and under a negative voltage  $U \approx 0$  - 3 kev. The antenna post was connected to ground through a capacitor and a resistor. The pulse picked off the resistor was fed through a capacitor and amplifiers (UR-3 and UR-4) to an oscilloscope (S1-10). The pulse induced in the antenna was commensurate in length with the duration of the laser flash. The pulse amplitude was at first approximately proportional to the voltage applied to the antenna but at a voltage  $\gtrsim 1$  kv the magnitude of the signal increased sharply with

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SMIRNOVA, A. E.

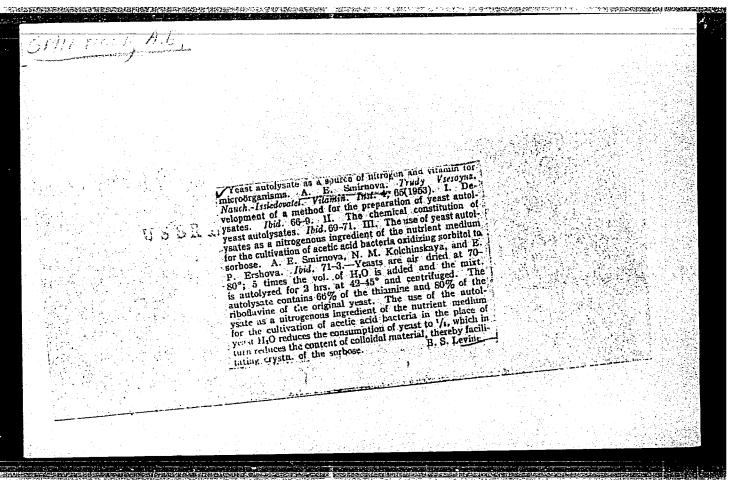
USSR/Medicine - Yeast, Growth
Medicine - Fermentation, Bacterial

"Rapid Method for the Control of Growth of Yeast During Fermentation Processes," A. E. Smirnova, Sci Resinst of Fermentation Industry, Ministry of Spice Industries of RSFSR, Moscow, 5 pp

"Mikrobiol" Vol XVII, No 2

Turbidity of the ferment is positive indicator of the yeast concentrate. Describes method that determines the yeast concentrate with photoelectric nephelometer, permitting evaluation of the accumulation of yeast in the ferment during the growth process. Submitted 27 May 1947.

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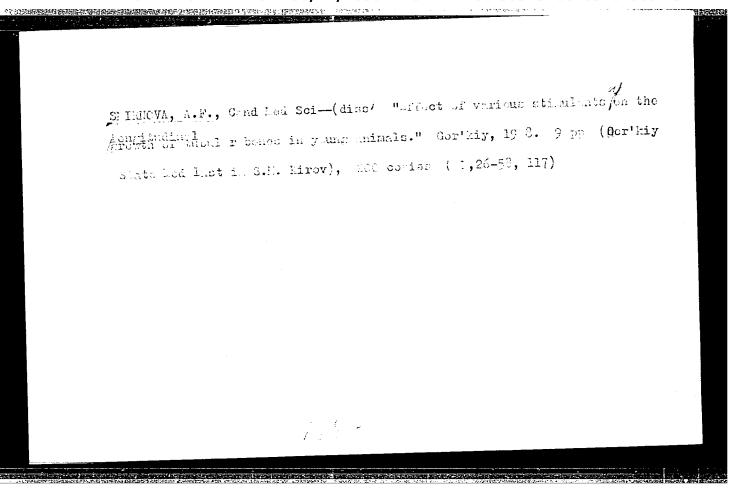


Active regulation of lineal growth of long bones. Ortop, travm. i protez. no.4:8-12 Jl-Ag '55. (MLRA 8:10)

1. Iz Gor'kovskogo instituta vosstanovitel'noy khirurgii, travmatologii i ortopedii (dir.-M.G.Grigor'yev)

(BONES, physiology, growth, eff. of stimulation)

(GROWTH, bones, eff. of stimulation)



BEKKER, G.M.; SMIRNOVA, A.F.

Fibromyoma of the lesser omentum. Khirurgiia 36 no.4:127-129 Ap
(MIRA 13:12)

(GMENTUM-TUMORS)

BODYAZHINA, V.I.; SMIRNOVA, A.F.

Causes of death in gynecological diseases. Vop.okh.mat.i det. 7
no.4:62-66 Ap '62.

(GYNECOLOGY—STATISTICS) (MORTALITY)

(GYNECOLOGY—STATISTICS)

Smir NOVA, A.F.

USSR/Scientists - Chemistry

: Pub. 151 - 37/37 Card 1/1

Rodionov, V. M.; Vorozhtsov, N. N.; Smirnova, A. F.; Shchetinina, L. A.; Shestov, A. P.; Korolev, A. I.; Lukashevich, V. O.; and Ufimtsev, V. N. Authors

Title In memory of Evgeniy Alekseevich Ivanov

Zhur. ob. khim. 24/3, 579-580, Mar 1954 Periodical:

Eulogy is presented honoring the passing of E. A. Ivanov, chief of the Abstract

Central Laboratory of the Dorogomilov-Frunze Chemical Plant, scientist

in the field of organic semi-products and dyes, recipient of Stalin

premium. Illustration.

Institution:

Submitted:

CIA-RDP86-00513R001651620007-3" **APPROVED FOR RELEASE: 08/24/2000** 

SOURCE CODE: UR/0286/65/000/020/0064/0064  WITHORS: Ardov, D. I.; Kamenetskiy, I. Ya.; Smirnova, A. F.; Sergeyeva, A. A.;  Conomareva, V. M.; Golubeva, A. V.; Luk'yanov, N. P; Ieremina, Ie. N.; Sivograkova,  C. A.; Kinter, I. P.; Shalina, V. P.  WH, 55  WH, 56		
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GROSVAL'D, V.G.; SMIRNOVA, A.G.

New device for measuring stresses in metal drawing. Zav.lab. 22 (MIRA 10:5) no.3:357-359 '56.

1.TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. (Strains and stresses--Measurement)

Smither on, A.C.

# PHASE I BOOK EXPLOITATION

SOV/4961

Akademiya nauk SSSR. Institut mashinovedeniya

Tekhnologicheskiy smazki dlya obrabotki metallov davleniyem (Industrial Lubricants Used in Pressworking of Metals) Moscow, Mashgiz, 1960. 96 p. 5,000 copies printed.

Sponsoring Agency: Institut mashinovedeniya Akademii nauk SSSR.

Ed.: A. V. Korolev, Candidate of Technical Sciences; Ed. of Publishing House: G. N. Soboleva; Tech. Ed.: L. P. Gordeyeva; Managing Ed. for Literature on Heavy Machine Building: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for scientific and technical personnel, production engineers, and students in schools of higher technical education and tekhnikums.

COVERAGE: The book contains articles analyzing the research on industrial lubricants used in pressworking of metals conducted by various institutes and plant laboratories. It is stated that these lubricants improve the metal-forming process and increase the wear resistance of tools (dies), thereby

Card 1/3

# Industrial Lubricants Used (Cont.)

SOV/4961

increasing the quantity and quality of production. Also included are papers discussed at an All-union convention on industrial lubricants held under the auspices of the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission for Machine-Building Processes of the Institute of Science of Machines, AS USSR). No personalities are mentioned. References accompany some articles and are all Soviet.

#### TABLE OF CONTENTS:

Isachenkov, Ye. I. Application of Principles of the Hydrodynamic Lubrication Theory to Stamping Processes	3
Korolev, A. V. On the Problem of Testing Industrial Lubricants Used in Cold Stamping of Sheet Steel	15
Davydor, Yu. P. Friction and Lubrication in Stamping Sheet Steel and Alloys	24

Card 2/3

·Industrial Lubricants Used (Cont.)	sov/4961
Sil'tsova, M. A. Industrial Lubricants Used in Deep Drawing of Parts From Steel Sheets (Experience of the Gor'kovskiy Avtomobil'nyy Zavod [Gor'kiy Automobile Plant])	37
Khabarov, N. D. Search for New Lubricants Used in Extrusion of Aluminum-Alloy Semiproducts	51
Davydov, Yu. P. Investigating the Effect of Lubricants in Metal Stamping	65
Smirnova, A. G. New Lubricants For Wire Drawing	81
Konoplina, V. I. Methods of Evaluating the Quality of Lubricants Used in Pressworking of Metals	91
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YERSHOV, B.P.; SMIRNOVA, A.G.

Use of resorcinol as an indicator during the complexometric determination of cadmium. Plast.massy nq.4:61-62 163. (MIRA 16:4) (Cadmium—Analysis) (Resorcinol)

ENTELIS, F.S., kand. tekhn. nauk; SMIRNOVA, A.I., inzh.

Investigating plastic molding processes. Stek. i ker. 20 no.10:14-20 0 '63. (MIRA 16:10)

1. Gosudarstvennyy issledovatel'skiy keramicheskiy institut.
(Ceramics)

YEVSTIGNEYEV, R.N.; STUPOV, A.D., kand.sel'skokhoz.mauk, red.; TO-MASHPOL'SKIY, L.M., kand.ekon.nauk, red.; SMIRNOVA, A.I., vedushchiy red.; GONCHAROV, N.G., tekhn.red.

[Economic development of the Czechoslovak Republic] Razvitie ekonomiki Chekhoslovatskoi Respubliki. Moskva, Vses.in-t nauchn. i tekhn.informatsii. 1960. 99 p. (MIRA 13:6) (Czechoslovakia--Economic conditions)

KOZIK, A.K.; ORESHKIN, Yu.V., red.; SMIRNOVA, A.I., red.; SOBOLEVA, N.M., tekhn.red.

[Industrial development of Poland] Razvitie promyshlennosti
Pol'shi. Moskva, Proizvodstvenno-izd.kombinat VINITI, 1959.

(MIRA 12:12)

公司国际政治国的新疆,只是1980年的国际中国的国际企业,1990年(1990年)。 1990年(1990年)

382 p.

(Poland--Industries)

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· er var	: Smirnov, V. N.; Ponomarev, Yu. I.; Smirnova, A. I.	1
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Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35607

Author

: Smirneys A.I., Selov'yevs V.F., Tsvetkovs L.I., Romasheva I.B.

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:  $^{\mathrm{T}}\mathrm{he}$  Content of Carotone in the Feedstuffs of the Yaroslav Title

Oblast'

Orig Fub : Sb. stud. rebot. Yeroslevsk. s.-kh. in-te, 1956, vyp. 1,

102-105

Abstract: The results of the analysis of the most widely spread feed-

stuffs in the Oblest' ere given. The highest content of carotene was found in the green leaves of oats and in pine needles; the caretene content of dried nettle was la times

higher then that of clover.

: 1/1 Card

- 1. SMIRNOV, V. A., SMIRNOVA, A. I.
- 2. USSR (600)
- 4. Polariscope
- 7. A source of error in the polarimetric determination of starch in grain. Fiokhimita 17 no. 6, 1952.

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

estre en index un le estre de la compansación de la compansación de la compansación de la compansación de la c