

L 39407-416

ACC NR: AP6004538

evaluating failure rates and for comparing the failure rates in two sets (product lots) on the basis of sample testing are cited; formula applicability is discussed. The exponential reliability law is applicable if: (a) failures are of the random type, (b) failures are mutually independent, (c) parameter variations are irreversible, (d) physical variations of parameters are negligible. When the above conditions are not satisfied, normal, truncated normal, Waybull, Hamm or other laws of time distribution of faultless operation are used. Orig. art. has: 1 figure and 23 formulas,

SUB CODE: 14, 09 / SUBM DATE: 30Mar65 / ORIG REF: 005 / OTH REF: 005

Card 2/2778

LYZLOV, V., podpolkovnik; LAVRINOVICH, N., podpolkovnik.

Training in firing from tanks in motion. Voen.VEST. 35 no.5:31-35  
My '55. (MIRA 9:7)  
(Tanks (Military science)) (Russia--Army--Target practice)

LAVRINOVICH, T. S.

LAVRINOVICH, T. S. -- "The Vascular Conditioned and Unconditioned Reflexes in Patients with Bronchial Asthma Based on Data from Plethysmography." First Leningrad Medical Institute imeni Academician I. P. Pavlov. Leningrad, 1955. (Dissertation for the Degree of Candidate in Medical Sciences.)

So; Knizhaya Letopis' No 3, 1956

LAVRINOVICH, V.

USSR/ Electronics - Supply

Card 1/1 Pub. 89 - 11/30

Authors : Lavrinovich, V., and Afanasyev, M.

Title : ~~Letters to the editor~~  
: Letters to the editor

Periodical : Radio 6, page 17, Jun 1955

Abstract : Comments are made by radio amateurs of numerous larger Soviet cities on the shortage of certain radio parts, particularly resistors, capacitors, and tubes, in the government operated stores. Proposals are made for the elimination of shortcomings and improvement of radio parts buying conditions.

Institution : .....

Submitted : .....

LAVRINOVICH, Ye. V.

USSR/Chemistry - Concrete 21 Nov 51

"Sedimentation Processes in Concrete Mixture - Their Effect on the Structure Formation of the Concrete and Its Water-Impermeability," V. V. Stolyanikov, Acad P. A. Rebinder, Ye. V. Lavrinovich, Inst of Phys Chem, Acad Sci USSR and All-Union Sci Res Inst of Hydrotechnics imeni B. Ye. Vedeneyeva, Leningrad "Dok Ak Nauk SSSR" Vol LXXXI, No 3, pp 431-434 1951

Water is found to seep along the successive horizontal layers of concrete faster than it does perpendicularly to them. If the magnitude of setting due to sedimentation is such that the size of the capillaries formed on the surfaces of the grit and filler does not exceed the size of the capillaries in the cement itself, the concrete will be more water-impermeable and will last longer. This can be achieved by the use of surface-active agents such as hydrophilic sulfite-alc mash.

PA 214T20

STOL'NIKOV, V.V., doktor tekhn. nauk; LAVRINOVICH, Ye.V., mladshiy nauchnyy  
sotrudnik, inzh.

Sedimentation processes in concrete mixtures and their effect on  
the formation of the structure of concrete and its waterproofness.  
Izv. VNIIG 47:208-222 '52. (MIRA 12:6)  
(Concrete)

USSR,

Effect of sulfate alcohol wash waters on concrete from pozzolan Portland cement. Ts. C. GINZBURG AND B. V. LAVRINOVICH. *Gidrotekh. Sirentel.* 23 [8] 18-21 (1954). Sulfate alcohol wash waters act as an effective plasticizer on mortars and concretes prepared from pozzolan Portland cement. This effect is produced both by dispersion and air entrainment. Greatest air entrainment occurs when sand grains are predominantly 0.15 to 0.5 mm. B.Z.K.

*Land Tech Sci.*

LAVRINOVICH, E. V.

4

MT Accelerators of setting and hardening of cement. V. V. KINO, E. V. LAVRINOVICH, AND R. E. LITVINOVA. *Tsementy*, 21 (3) 7-12 (1946). One of the basic factors of the acceleration of setting of cement in the presence of additions (accelerators) is the increase in its specific surface caused by the dispersion of cement grains by the action of the additions. Reduction in setting time is also facilitated by an increase in solid phase owing to the formation of insoluble products of the reaction of lime with the additions of salts. During the hardening of Portland cement mixed with CaCl<sub>2</sub> solutions the CaC<sub>2</sub> is apparently combined, with the formation of difficultly soluble Ca oxychlorides and Ca chloraluminates. B.Z.K.

(2) DM



LAVRINOVICH, Ye. V.

AID P - 1796

Subject : USSR/Hydraulic Engineering Construction  
Card 1/2 : Pub. 35 - 8/17  
Author : Furman, M. I., Litvinova, R. Ye., Lavrinovich, Ye. V.  
Title : Manufacturing of concrete to be cured in freezing weather and its properties  
Periodical : Gidr. stroi., v.24, no.1, 26-30, 1955  
Abstract : The advantages of using electrolyte concentrates retarding the hydration process of concrete cured at low temperatures are discussed. The authors made a series of tests with concrete using  $\text{CaCl}_2$  as admixture at temperatures of  $-5$  and  $-20^\circ\text{C}$ . A detailed description of tests for compressive strength, imperviousness, frost-resistance, corrosion of reinforcements and settling of concrete is given. Results reportedly prove 1) it is possible to cure concrete at low temperatures without heating materials; 2) sulfite-alcohol residue may be added

AID P - 1796

Gidr. stroi., v.24, no.1, 26-30, 1955

Card 2/2 Pub. 35 - 8/17

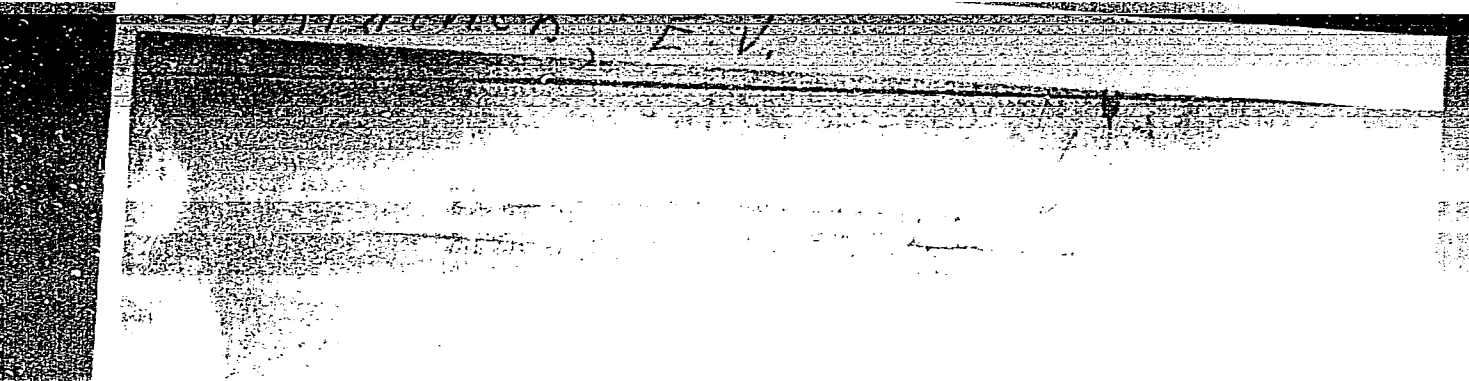
to cold materials; 3) the amount of calcium chloride may reach 17 to 20 per cent; 4) this percentage decreases at higher temperatures. Two tables, 7 diagrams are given. Russian references of 1934, 1937, 1946 and 1952.

Institution: None

Submitted : No date

"APPROVED FOR RELEASE: 06/20/2000

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CIA-RDP86-00513R000928820014-7"

LavrinoVich, Ye. V.

LAVRINOVICH, Ye. V., kand.tekhn.nauk; SAVINOV, O.A.; kand.tekhn.nauk;  
TYAGIN, B.V., inzh.

Experimental work in the construction of reinforced concrete  
tubings by means of vibratory stamping. *Biul.tekh.inform.* 3  
no.3:17-20 Mr '57. (MIRA 10:10)  
(Reinforced concrete construction)  
(Tunnels)

LAVRINOVICH, Ye.V., kandidat tekhnicheskikh nauk.

Decreasing the corrosion of the armature in concrete by the  
addition of salts. Biul.tekh.inform. 3 no.6:8-11 Je '57.

(MIRA 10:10)

(Reinforced concrete)

LAVRINOVICH, YE. V.

98-7-7/20

**AUTHOR:** Lavrinovich, Ye. V., Candidate of Technical Sciences

**TITLE:** The Dependence of the Strength and Durability of Butt Joints on the Kind of Cement and Admixtures Used (Zavisimost' prochnosti i stoykosti stykovykh soyedineniy ot vida tsementa i dobavok)

**PERIODICAL:** *Gidrotekhnicheskoye Stroitel'stvo*, 1957, No 7, pp 29-32 (USSR)

**ABSTRACT:** Specific difficulties have to be overcome when using prefabricated reinforced concrete structures in the construction of hydroelectric power plants. These are caused by static and dynamic actions of water, ice, and deposits on the concrete. Butt joints of high quality may be obtained by ensuring reliable surface contacts and the right selection of the deformative (warping) properties of the old and new concrete surfaces. The use of special brands of cement and admixtures were studied in order to improve the technical properties of butt joints. The tests, conducted by the laboratories of VNIIGS, determined the specific characteristics of different kinds of cement, such as dilatant, aluminous, pozzuolanic, and conventional Portland cement products, in

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98-7-7/20

The Dependence of the Strength and Durability of Butt Joints on the Kind of Cement and Admixtures Used

conjunction with the application of surface-active substances. The strength of the butt joints was established by bending tests and their resistance to shearing stress. It was found that the strength of butt joints depended largely on the kind of cement used. The highest relative values were obtained with dilatable cement (100% of monolith strength), followed by plasticized Portland cement with an addition of alcohol-sulfite vinasse (90-98% of monolith strength). The lowest binding properties were obtained with aluminous cement (49-50%). On the average, cohesion of assembled test pieces ranges from 75-80% of monolithic strength, however, their strength increased at a lower rate than that of the block specimen. The average ratio of strength between butt-joined and monolithic samples was 88% after 7 days, 86% after 28 days, and 81% after 180 days. Consequently, in order to insure stability of butt-joined sections, it is necessary to use cement of a 20-25% higher grade than is used for the base construction. Aside from testing for strength, butt joints were tested on their resistance to alternate

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98-7-7/20

The Dependence of the Strength and Durability of Butt Joints on the Kind of Cement and Admixtures Used

wetting and drying. It was found that the majority of test pieces deteriorated, whereby best results were obtained from plasticized Portland cement with an additive of alcohol sulfite vinasse. Dilatable cement showed a sharp decline of strength under test conditions. The water resisting properties of butt joints were tested on the same type of sample blocks used for testing of shearing stress. Evaluations on water resistance were based on permeability, quantity of extracted substances during filtering, and change in strength. The application of surface-active substances somewhat reduced the leaching-out of matter. Pressure filtering caused a reduction of cohesion strength by 10-20%. Frost resistant properties were studied by alternate freezing and thawing. Satisfactory frost resistance was found at joints made from ordinary cement, whereby coating with surface-active substances improved the resistance. Dilatable cement had low frost resistance. Tests with sea water showed a further decrease of strength as compared with hydrostatic pressure tests. Additives did not improve resistance against

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98-7-7/20

The Dependence of the Strength and Durability of Butt Joints on the Kind  
of Cement and Admixtures Used

corrosion.

The article contains 6 tables and 2 graphs.

AVAILABLE: Library of Congress

Card 4/4

LAVRINOVICH, Ye. V.

SAVINOV, O.A., doktor tekhn. nauk; LAVRINOVICH, Ye.V., kand. tekhn. nauk.

Most efficient methods for vibrating stiff concrete mixes, *Biul. tekhn. inform.* 4 no.2:23-24 F '58. (MIRA 11:3)  
(Vibrators) (Concrete)

*LAVRINOVICH V.*  
SAVINOV, O.A., doktor tekhn. nauk; LAVRINOVICH, Ye.V., kand. tekhn. nauk.

Selecting basic parameters for punching vibrators. Biul. tekhn. inform.  
4 no.3:20-22 Mr '58. (MIRA 11:3)  
(Vibrators) (Hollow bricks)

LAVRINOVICH, Ye.V., kand. tekhn. nauk

Ways of economizing portland cements in making products to be  
hardened in autoclaves. *Biul. tekhn. inform. po stroi.* 5 no.7:22-23  
Jl '59. (MIRA 12:10)  
(Concrete) (Cement)

LAVRINOVICH, Ye.V., kand.tekhn.nauk

Using potash in sealing joints of reinforced concrete construction elements in winter. Biul.tekh.inform.po stroi. 5  
no.9:22-24 S '59. (MIRA 12:12)  
(Potash) (Precast concrete construction--Cold weather conditions)

SAVINOV, O.A., doktor tekhn.nauk; LAVRINOVICH, Ye.V., kand.tekhn.nauk

Vibrating conveyers with sliding vibrating stampers. Biul.  
tekh.inform.po stroi. 5 no.10:23-24 0 '59. (MIRA 13:3)

(Vibrated concrete)

LAVRINOVICH, Ye.V., kand. tekhn. nauk; SAVINOV, O.A., doktor tekhn. nauk; MIKHAYLOV, V.V., doktor tekhn. nauk, prof., retsenzent; RUDENKO, I.F., inzh., retsenzent; STAROVAYTOV, I.F., red. izd-va; ROZOV, L.K., tekhn. red.

[Manufacture of reinforced-concrete elements by vibration and pressure] Izgotovlenie zhelezobetonnykh elementov vibroshtampovaniem. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekt. i stroit. materialam, 1961. 139 p. (MIRA 14:9)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Mikhaylov).

(Precast concrete)



PHASE I BOOK EXPLOITATION

SOV/5775

Lawrinovich, Ye. V., and O. A. Savinov

Izgotovleniye zhelezobetonnykh elementov vibroshtampovaniyem (Making Ferroconcrete Precastings by Vibrotamping) Leningrad, Gosstroyizdat, 1961.  
139 p. 5500 copies printed.

Reviewers: V. V. Mikhaylov, Member of the Academy of Construction and Architecture of the USSR, Doctor of Technical Sciences, Professor; and  
I. F. Rudenko, Engineer; Ed. of Publishing House: I. F. Starovoytov;  
Tech. Ed.: L. K. Rozov.

PURPOSE: This book is intended for designers and production engineers in the prefabricated-ferroconcrete-products industry.

COVERAGE: Theoretical principles and the results of experimental studies of the process of vibratory compacting of ferroconcrete products are discussed. Practical instructions for selecting the optimum parameters of vibratory tampers and descriptions of vibratory tamping machines are given considerable attention. Characteristics of concrete mixes for vibratory tamping, the  
Card 3/4

Making Ferroconcrete Precastings (Cont.)

SOV/5775

quality evaluation of vibration-tamped concretes, and experimental data on industrial application of vibratamping units for forming various kinds of ferroconcrete prefabricated products are also considered. The author thanks S. A. Osmakov, Candidate of Technical Sciences; F. G. Braude and M. Ye. Nevelova, Engineers, and V. V. Savitskaya and Z. I. Obukhova, technicians, all staff members of the Laboratory for the Mechanization of Special Work at VNIIGS (All-Union Scientific Research Institute of Hydrology and Sanitary Engineering); B. V. Tyagin, Chief Engineer of the zavod No. 4 sbornogo zhelezobetona Upravleniya Glavlentstroyaterialy (Plant No. 4 for Prefabricated Ferroconcrete Products, Administration of Glavlentstroyaterialy), and his coworkers N. V. Potapov, Engineer, and M. V. Klochanov, Engineer; and L. S. Raynus, Chief Engineer of the stroytrest No. 3 Glavleningradstroya (Construction Trust No. 3, Glavleningradstroy). There are 32 references: 31 Soviet and 1 English.

TABLE OF CONTENTS:

Introduction	
Ch. I. Theoretical Principles of the Vibratory-Tamping Method	3
1. General notes	
2. Elements of the tamper-movement theory	7
Card 2/4	10

SAVINOV, O.A., doktor tekhn.nauk; LAVRINOVICH, Ye.V., kand.tekhn.nauk

What should a vibratory rolling mill be like? Trudy NIIZHB no.21:  
127-137 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot Ministerstva stroitel'stva RSFSR.  
(Vibrated concrete)

SAVINOV, O.A., doktor tekhn.nauk; LAVRINOVICH, Ye.V., kand.tekhn.nauk

Basic principles of the molding of stiff concrete mixes with vibration and pressure. Trudy NIIZHB no.21:216-231 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot Ministerstva stroitel'stva RSFSR.  
(Precast concrete)

SAVINOV, O.A., doktor tekhn.nauk; LAVRINOVICH, Ye.V., kand.tekhn.nauk;  
SAVITSKAYA, V.V., inzh.

Vibration rolling of thin-walled reinforced concrete and mesh-  
reinforced elements. Bet.i zhel.-bet. 8 no.4:185-187 Ap '62.  
(MIRA 15:5)

(Vibrators) (Precast concrete)

IAVRINOVICH, Ye.V.; kand.tekhn.nauk; NEVELEVA, M.Ye., inzh.; SAVITSKAYA,  
V.V., inzh.

Using glues for making the joints of precast reinforced concrete  
elements of hydraulic structures. Gidr. stroi. 32 no.8:22-26  
Ag '62. (MIRA 15:9)

(Glue)

(Precast concrete construction)  
(Hydraulic structures)

LAVRINOVICH, Ye.V., kand.tekhn.nauk

Frost resistance of concretes with an addition of  
potash. Bet. i zhel.-bet. 8 no.11:487-490 N '62.  
(MIRA 15:11)

(Frost resistant concrete)  
(Potash)

LAVRINOVICH, Ye.V., kand. tekhn. nauk; GOLITSYNSKIY, D.M., inzh.;  
PERLEY, Ye.M., inzh.; RUDIN, Ye.I., inzh.

Concreting vertical seams of cylindrical shells. Transp.  
stroi. 14 no.3:45-48 Mr '64. (MIRA 17:6)



SAVINOV, O.A., doktor tekhn.nauk; LAVRINOVICH, Ye.V., kand.tekhn.nauk;  
MEDVEDEV, E.P., kand.tekhn.nauk

Draft of "temporary technical specifications for forming reinforced concrete products by vibrated stampers." Trudy NIIZHB  
no.33:390-396 '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot.

VOLIK, A.G., inzh.; GUREVICH, D.Ye., inzh.; LAVRINOVICH, Ye.V., kand. tekhn. nauk; SAVINOV, O.A., doktor tekhn. nauk

Glue concrete joints of pipe piles. Transp. stroi. 15 no.5:49-51  
My '65. (MIRA 18:7)

1. Chernomorgidrostroy (for Volik, Gurevich). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (for Lavrinovich, Savinov).

LAVRISHCHEV, A.N.

LAVRISHCHEV, A.N. Ekonomika Uralai stroitel'stvo mal'kh i srednikh gidrostantsii.  
Moskva, Gosplanizdat, 1945. 111 p. DLC: Unclassified

SO: LC, Soviet Geography, Part II, 1951, Unclassified

LAVRISHCHEV, A.

"Hydrological conditions and complex utilization of Ural Rivers."

Dissertation for Candidate of Technical Sciences, Higher Military Hydrometeorological  
Inst.

subject: Hydropower engineering

Gidrotekhnicheskoye, stroitel'stvo, 12, 1946.

LAVRISHCHEV, A.

Aid of the Soviet Union to other countries in the peaceful use of atomic energy. Tr. from the Russian. p. 751.

Atomic reactor for research purposes with a capacity of 2,000 kw. p. 755.

Vol. 3, no. 6, 1955

SOVETSKA VEDA: ENERGETIKA

Praha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

LAVRISHCHEV, A. N.

"Assistance of the Soviet Union to Other Countries in the Peaceful Uses of Atomic Energy," a paper presented at the Atoms for Peace Conference, Geneva, Switzerland, 1955

LAVRISHCHEV, Aleksey Nikitin, doktor geograficheskikh nauk; KUTAF'YEV, S.A.,  
redaktor; NAUMOV, K.M., tekhnicheskii redaktor.

[Geography of the branches of the national economy of the U.S.S.R.]  
Geografiia otraslei narodnogo khoziaistva Soiuza SSR; uchebnoe posobie.  
Moskva, Vysshiaia partiinaia shkola pri TsK KPSS, 1955. 259 p. (MLRA 9:4)  
(Geography, Economic)

LAVRISCSEV, A.

Aid of the Soviet Union to other countries in the peaceful  
use of atomic energy. Tr. from the Russian p. 36  
FIZIKAI SZEMLE (Eotvos Lorand Fizikai Tarsulat) Budapest  
Vol 6, no. 2 April 1956

Source: SERIAL LC Vol 5 No. 10 Oct. 1956



KHRUSHCHEV, A.T.; NIKOL'SKIY, I.V.; LAVRISHCHEV, A.N., nauchnyy red.;  
VORONINA, N.V., red.

[Development and distribution of industry and transportation  
in the U.S.S.R. in the seven-year plan] Razvitie i razmeshchenie  
promyshlennosti i transporta SSSR v semiletke. Moskva, Izd-vo  
VPSH i AON pri TsK KPSS, 1960. 149 p. (MIRA 13:12)  
(Russia--Industries) (Transportation)

KHRUSHCHEV, A.T.; NIKOL'SKIY, I.V.; LAVRISHCHEV, A.N., nauchnyy red.;  
VORONINA, N.V., red.

[Development and distribution of U.S.S.R. industry and  
transportation in the seven-year plan] Razvitie i razmeshchenie  
promyshlennosti i transporta SSSR v semiletke. Moskva, Izd-vo  
VPSa i AON pri TsK KPSS, 1960. 151 p. (MIRA 14:2)  
(Russia--Industries) (Transportation)  
(Russia--Economic policy)

KUTAF'YEV, Sergey Alekseyevich [deceased]; LAVRISHCHEV, A.N., nauchnyy  
red.; VORONINA, N.V., red.

[The Kazakh S.S.R.] Kazakhskaya SSR. Moskva, Izd-vo VPSH i AON  
pri KPSS, 1960. 127 p. (MIRA 14:8)  
(Kazakhstan—Economic geography)

LAVRISHCHEV, Aleksey Nikitich, doktor geogr. nauk, prof.;  
PALAMARCHUK, M.M., prof., retsenzent; SLAVIN, S.V.,  
prof., retsenzent; RYAZANTSEV, S.N., dots., retsenzent;  
KUGUSHEV, N.G., dots., retsenzent; KISTANOV, V.V., kand.  
ekon. nauk, retsenzent; GLYAZER, L.S., red.; TARASOVA,  
T.K., mlad. red.; PONOMAREVA, A.A., tekhn. red.;  
GERASIMOVA, Ye.S., tekhn. red.

[Economic geography of the U.S.S.R.; general part, the  
geography of industry, agriculture, and transportation]  
Ekonomicheskaya geografiya SSSR; obshchaya chast', geog-  
rafiya promyshlennosti, sel'skogo khoziaistva i trans-  
porta. Moskva, Izd-vo "Ekonomika," 1964. 558 p.  
(MIRA 17:3)

LAVRISHCHEV, Aleksey Nikolaevich, dokt. geogr. nauk, Prof.;  
GRIZANOV, L.S., I.S. BAZANOVICH, N.K., red.; TARASOVA,  
T.K., ul. red. SOVSKAYA, M.O., ul. red.

[Economic geography of the U.S.S.R.; general part, geography  
of industry, agriculture, and transportation] Ekonomicheskaia  
geografiia SSSR, obshchaya chast', geografiia promysh-  
lennosti, sel'skogo khoz-va i transporta. Moskva, Eko-  
nomika, 1965. 408 p. (MIRA 18:12)

LAVRISHCHEV, D.N.

Processing observations on low cloudiness for their utilization  
for weather forecasts. Meteor. i gidrol. no.7:46-47 JI '57.  
(Weather forecasting) (MIRA 10:8)

LAVRISHCHEV, D.N.

Accuracy in predicting low clouds, reduced visibility, and fog.  
Meteor. gidrol. no.5:42-44 My '63. (MIRA 16:5)

1. Aviameteorologicheskaya stantsiya v Grazhdanskom vozdušnom flote,  
Bykovo.

(Meteorology in aeronautics)

LAVRISHCHEV, G.I.

Better management of feldsher-midwife stations is an important task of public health agencies. Zdrav.Ros.Feder. 2 no.3:8-13 Mr '58.

(MIRA 11:3)

1. Zamestitel' nachal'nika Glavnogo upravleniya lechebno-profilakticheskoy pomoshchi Ministerstva zdravookhraneniya RSFSR.  
(MEDICINE, RURAL)



LAVRISHCHEV, G.I. (Moskva)

Work of the nurses' council of the Kalinin Province Hospital. Zdrav.  
Ros. Feder. 3 no.11:29-32 N '59. (MIRA 13:3)  
(KALININ PROVINCE--NURSES AND NURSING)

LAVRISHCHEV, G.I.

Complete the reorganization of the district link in the rural  
public health system. Zdrav. Ros. Feder. 4 no.1:9-14 Ja '60.  
(MIRA 13:5)

1. Zamestitel' nachal'nika Glavnogo lechebno-profilakticheskogo  
upravleniya Ministerstva zdravookhraneniya RSFSR.  
(PUBLIC HEALTH, RURAL)

LAVRISHCHEV, G.I.

Activity of social councils in the therapeutic and prophylactic establishments of the R.S.S.R.S.R. Zdrav.Ros.Feder. 7 no.2:6-11 F '63. (MIRA 16:4)--

1. Zamestitel' nachal'nika Glavnogo upravleniye lechebno-profilakticheskoy pomoshchi Ministerstva zdravookhraneniya RSFSR.

(HEALTH BOARDS)

53610

AUTHORS: Lavrishchev, V. A., Plakidin, Val. L.,  
Kretov, A. Ye.

69675

S/153/60/003/01/034/058  
B011/B005

TITLE: Production of Amino Compounds by Interaction of Aromatic Halogen  
Derivatives With Molten Urea

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya  
tekhnologiya, 1960, Vol 3, Nr 1, pp 127-129 (USSR)

TEXT: The authors state that the halogen atom in aromatic halogen derivatives during their fusion with urea is substituted by the amino group smoothly and with high yields. This applies to derivatives containing a nitro-, sulfamide-, alkylsulfonic, or arylsulfonic group in o- or p-position with respect to the halogen atom. The authors had proved previously that under these circumstances the halogen in o- and p-nitrochlorobenzene is not substituted at normal pressure, even at 250° (confirmed by Ref 4). A similar reaction proceeds with 2,4-dinitrochlorobenzene smoothly and with a high yield. The reaction with 2-chloro-5-nitrophenyl-N-methylsulfamide took place with a somewhat lower yield (69% instead of 83%). The substitution under review is not possible with halogen derivatives having only one sulfonic or sulfamide group in o- or p-position with respect to the chlorine atom. The results show that under the given circumstances the

Card 1/2

Production of Amino Compounds by Interaction of  
Aromatic Halogen Derivatives With Molten Urea

69675

S/153/60/003/01/034/058  
B011/B005

halogen in the ring becomes only movable under the influence of at least 2 strong electron-acceptor substituents. They may be 2 nitro-, or one nitro- and one sulfonic or sulfonamide group. The reaction does not start below 180°C, and proceeds very quickly, sometimes with a vigorous generation of gas. From the mixture of reaction products, cyanuric acid is also obtained, which forms in the thermal decomposition of urea. There are 1 table and 9 references, 1 of which is Soviet.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F. E. Dzerzhinskogo (Dnepropetrovsk Institute of Chemical Technology imeni F. E. Dzerzhinskiy) Rubezhanskiy filial nauchno-issledovatel'skogo instituta organicheskikh poluproduktov i krasiteley im. K. Ye. Voroshilova (Rubezhnoye Branch of the Scientific Research Institute of Organic Semiproducts and Dyes imeni K. Ye. Voroshilov) Kafedra organicheskoy khimii (Chair of Organic Chemistry)

SUBMITTED: March 7, 1959

Card 2/2

LAVRISHCHEV, V.A.; PLAKIDIN, Val.L.; KRETOV, A.Ye.

Interaction of alkoxy and aryloxy derivatives of the aromatic series  
with fused urea. Zhur. ob. khim. 30 no.9:3064-3072 S '60.  
(MIRA 13:9)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut i Rubezhanskiy  
filial Nauchno-issledovatel'skogo instituta organicheskikh  
poluproduktov i krasiteley.  
(Urea)

LAVRISHCHEV, V.A.; KRETOV, A.Ye.

Reaction of asymmetric derivatives of urea during melting  
with 4-chloro-3-nitrophenylalkyl(aryl)sulfones and sulfamides.  
Zhur.ob.khim. 32 no.2:502-506 F '62. (MIRA 15:2)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut imeni  
F.E. Dzerzhinskogo i Rubezhanskiy filial nauchno-issledovatel'-  
skogo instituta organicheskikh poluproduktov i krasiteley.

(Sulfone) (Urea) (Sulfamide)

ARTEM'YEV, Yu.N.; VOLGIN, I.V.; GAL'PERIN, A.S.; DYADYUSHKO, V.P.;  
KAPLUN, I.B.; LAVRISHCHEV, V.N.; NEFEDOV, B.B.; TEL'POV, A.S.;  
CHICHEV, Yu.I., red.

[Control of technical conditions of tractor parts in repair-  
ing; a handbook. Traktors DT-54, DT-54A, T-75, "Belarus',"  
T-40, T-28, DT-14, DT-14A, DT-14B, DT-20, self-propelled  
chassis DVSSh-16 and T-16] Kontrol' tekhnicheskogo sostoiania  
traktornykh detalei pri remon'e; spravochnik. Traktory  
DT-54, DT-54A, T-75, "Belarus'," T-40, T-28, DT-14, DT-14A,  
DT-14B, DT-20, samokhodnye shassi DVSSh-16 i T-16. Moskva,  
Kolos, 1965. 471 p. (MIRA 18:4)



LAVRISHCHEV V. P.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Organic Chemistry

4  
② Chem  
Synthesis of silicohydrocarbons from  $\beta$ -silicon halides and  
lithium alkyls. A. D. Nestoy and V. P. Lavrishchev.  
Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. 1952, 605-7.  
(Engl. translation).—See C.A. 48, 1248c. H. L. H.

LAVRISHCHEV, V. P.

Chemical Abst.  
Vol. 48 No. 3  
Feb. 10, 1954  
Organic Chemistry

(2)

Synthesis of silicohydrocarbons from  $\beta$ -silicon halides and lithium alkyls. A. D. Petrov and V. P. Lavrishchev, *Izv. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk*, 1952, 1125-7. — Usually RLi give better yields than RMgX in condensations with (2-haloalkyl)trialkylsilanes. Thus, 51.2 g.  $\text{Me}_2\text{SiCH}_2\text{CHBrMe}$  added to 40 g. BuLi (much heat evolution) in  $\text{Et}_2\text{O}$ , then treated with ice-HCl gave 21.8%  $\text{Me}_2\text{SiCH}_2\text{CHMeMe}$  and 5%  $(\text{CHMeCH}_2\text{SiMe}_2)_2$ . The normally expected products are usually accompanied by products of condensation and reduction. In this manner were obtained:  $\text{Et}_2\text{SiCH}_2\text{CHMeBu}$ , b. 236-8°,  $d_4^{20}$  0.7959,  $n_D^{20}$  1.4448;  $\text{Et}_2\text{SiCH}_2\text{CHMeCH}_2\text{CHMe}$ , b. 233-4°,  $d_4^{20}$  0.7979,  $n_D^{20}$  1.4464;  $\text{Et}_2\text{SiCH}_2\text{CHMeCHMe}$ , b. 221-2°,  $d_4^{20}$  0.8050,  $n_D^{20}$  1.4492;  $\text{Bu}_2\text{SiCH}_2\text{CHMeBu}$ , b. 306-6.5°,  $d_4^{20}$  0.7993,  $n_D^{20}$  1.4460;  $\text{Me}_2\text{SiCHMeBu}$ , b. 175-6°,  $d_4^{20}$  0.7517,  $n_D^{20}$  1.4222;  $\text{Bu}_2\text{SiPr}$ , b. 267-8°,  $d_4^{20}$  0.7949,  $n_D^{20}$  1.4672;  $(\text{CHMeCH}_2\text{SiEt}_2)_2$ , b. 314-17°,  $d_4^{20}$  0.8376,  $n_D^{20}$  1.4672;  $\text{Bu}_2\text{SiCH}_2\text{CHMePr}$ , b. 290-90.2°,  $d_4^{20}$  0.8038,  $n_D^{20}$  1.4500. In condensation of  $\text{Me}_2\text{CMgCl}$  with  $\text{Et}_2\text{SiCH}_2\text{CHBrMe}$ , where the halide failed to enter a condensation reaction, the yield of the reduction product,  $\text{Et}_2\text{SiPr}$ , was 11%, along with 6% disilyl deriv. C. M. Kosolapoff

MF  
9-20-54

KORSHAK, V.V.; MOZGOVA, K.K.; LAVRISHCHEV, V.P.

Effect of low molecular compounds on the photochemical decomposition  
of the polyamide anide G-669. Vysokom.soed. 1 no.7:990-997 J1 '59.  
(MIRA 12:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR,  
(Amides)

KORSHAK, V.V.; MOZGOVA, K.K.; LAVRISHCHEV, V.P.

Effect of low molecular weight organic compounds on the  
process of photochemical destruction of  $\epsilon$ -polycaproamide.  
Vysokom.soed. 1 no.8:1159-1163 Ag '59. (MIRA 13:2)

1. Institut elementoorganicheskikh soedineniy AN SSSR.  
(Hexanamide) (Photochemistry)

KORSHAK, V.V.; MOZGOVA, K.K.; LAVRISHCHEV, V.P.

Effect of low molecular weight compounds on the photo-  
chemical destruction of the polyamide anide G-669. Vysokom.  
soed. 1 no.8:1164-1169 Ag '59. (MIRA 13:2)

1. Institut elementoorganicheskikh soedineniy AN SSSR.  
(Amides) (Photochemistry)

LAVRISHCHEV, V. P.

Cand Chem Sci, Diss -- "Photochemical destruction of polyamides".  
Moscow, 1961. 11 pp, 22 cm (Moscow Order of Lenin Chem-Technol Inst  
imeni D. I. Mendeleev), 150 copies, Not for sale (KL, No 9, 1961,  
p 177, No 24276). [61-52312]

L 1859-66 EWT(m)/EPF(c)/T/EWA(h)/EWA(l) DS/RM  
ACCESSION NR: AP5022614

UR/0190/65/007/009/1637/1640  
678.01:54+678.744

AUTHOR: Belyakova, A. P.; <sup>4455</sup>Bokov, Yu. S.; <sup>4455</sup>Lavrishchev, V. P.; <sup>4455</sup>Konovalov, P. G.; <sup>4455</sup>Vaskevich, D. N.

TITLE: Photosensitivity of poly(vinyl cinnamate) and its nitro-derivatives

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1637-1640

TOPIC TAGS: <sup>4455</sup>polymer, photosensitivity, polyvinylcinnamate, photosensitive polymer

ABSTRACT: The purpose of this work was to clarify the effect of substituents in the monomer molecule on the photosensitivity of the polymer. Poly(vinyl cinnamate) and the o, m, and p-nitroderivatives were prepared by heating poly(vinyl alcohol) (mol. wt. 12,000, 0.72% acetate groups) in pyridine for 4 hours at 50C with cinnamyl chloride, or the appropriate nitrocinnamyl chloride. Polymer films, 5100 ± 10 μ thick, were irradiated with ultraviolet light and their thermomechanical properties, solubilities, ultraviolet and infrared spectra were measured and compared to those of untreated films. It was found that the photosensitivity of the compounds in-

Card 1/2

L 1859-56

ACCESSION NR: AP5022614

creases in the following order: poly(vinyl cinnamate) (PVC) > o-NO<sub>2</sub>-PVC > m-NO<sub>2</sub>-PVC > p-NO<sub>2</sub>-PVC. Orig. art. has: 2 figures and 2 tables. [VS] 3

ASSOCIATION: Vsesoyuznyy zaochnyy politekhnicheskiy institut (All-Union Correspondence Polytechnic Institute) 4465

SUBMITTED: 29Oct64

ENCL: 00

SUB CODE: OC, OP

NO REF NOV: 007

OTHER: 005

ATD PRESS: 4087

*gjo*

Card 2/2



LAVRISHCHEVA, G.I.

Filling osseous cavities with ground cartilage. Ortop.trava.  
protez., Moskva no.1:80 Ja-F '55. (MLRA 8:10}

1. Iz patologoanatomicheskogo otdeleniya (zav.-prof. T.P.  
Vinogradova) Tsentral'nogo instituta travmatologii i ortopedii  
(dir.-chlen-korrespondent AMN SSSR prof. N.N. Priorov)

(CARTILLAGES, transplantation,  
filling of bone cavities with crushed cartilage)

(TRANSPLANTATION,  
cartilage, filling of bone cavities)

(BONES, Wounds and injuries,  
ther., filling of cavities with crushed cartilage)

(WOUNDS AND INJURIES,  
bones, ther. filling of cavities with crushed cartilage)

LAVRISHCHEVA, G. I.

Homotransplantation of bones; experimental research. Ortop. travm.  
i protez. 17 no.6:13-16 N-D '56. (MIRA 10:2)

1. Iz patologoanatomicheskoy laboratorii (zav. - prof. T.P.Vino-  
gradova) Tsentral'nogo instituta travmatologii i ortopedii (dir. -  
chlen-korrespondent AMN SSSR prof. N.N.Priorov)  
(BONES, transplantation  
exper., homografts)

LAVRISHCHEVA, G. I., <sup>Cand.</sup> Master Med Sci --(USSR) "The use of bone fragments in nonoplasty  
on the long tubular bones." M. Scow, 1971. 16 pp, <sup>public</sup> (Health ~~Man~~) RSFSR. Second Moscow  
State Med Inst im. N. I. Pirogov. <sup>public</sup> (Health ~~Man~~) USSR. Central Sci-Res Inst of Traumatol  
and Orthopedics), 200 copies. (KL, No 39, 1957, 47)

LAVRISHCHEVA, G.I.

Spontaneous bone absorption. Ortop., travm., i protez. 21 no.1:  
14-18 Ja '60.

(MIRA 13:12)

(BONES--DISEASES)

LAVRISHCHEVA, G.I.

Homoplasty of defects of the tubular bones with bone fragments.  
Eksp.khir.i anest. 6 no.2:35-38 '61. (MIRA 14:10)  
(BONE GRAFTING)

BRUMBERG, A.S., prof.; VAKHURKINA, A.M.; VINOGRADOVA, T.P., prof.;  
LAVRISHCHEVA, G.I., kand. med. nauk; PERMYAKOV, N.K., doktor  
med. nauk; SMOL'YANNIKOV, A.V., prof.; STRUKOV, A.I., prof.;  
otv. red.; DVIZHKOV, P.P., prof., zamestitel' otv. red.;  
APATENKO, A.K., kand. med. nauk; SENCHILO, K.K., tekhn. red.

[Multivolume manual on pathological anatomy] Mnogotomnoe rukovodstvo po patologicheskoi anatomii. Otv. red. A.I.Strukov. Moskva, Medgiz. Vol.6. [Pathological anatomy of diseases of the osteoarticular system, muscles, and tendons] Patologicheskaiia anatomia boleznei kostno-sustavnoi sistemy, myshts i sukhozilii. Red. toma T.P.Vinogradova. 1962. 518 p. (MIRA 15:4)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Strukov).

(BONES--DISEASES) (JOINTS--DISEASES) (MUSCLES--DISEASES)

LAVRISHCHEVA, G.I., kand.med.nauk

Bone fragment homoplasty in defects of the ling tubular bones.  
Khirurgia no.9:36-41 '61. (MIRA 15:5)

1. Iz patologoanatomicheskogo otdeleniya (zav. - zasluzhenny  
deyatel' nauki prof. T.P. Vinogradova) Tsentral'nogo instituta  
travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR  
N.N. Priorov [deceased]) Ministerstva zdravookhraneniya SSSR.  
(BONE GRAFTING)

LAVRISHCHEVA, G. I., kand. med. nauk

Bone resorption syndrome. Khirurgiia 38 no.5:66-69 My '62.  
(MIRA 15:6)

1. Iz patologoanatomicheskogo otdeleniya (zav. - zasluzhennyi deyatel' nauki prof. T. P. Vinogradova) Tsentral'nogo instituta travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR prof. N. N. Priorov[deceased]) Ministerstva zdravookhraneniya SSSR.

(BONES--DISEASES) (ATROPHY)



CHAKLIN, V.D., prof.; ABAL'MASOVA, Ye.A., kand. med.nauk; LAVRISHCHEVA, G.I.,  
kand.med.nauk.

Regeneration processes during intra and extramedullary osteo-  
synthesis. Ortop., travm. i protez. no.1:10-15'63.

(MIRA 16:10)

1. Iz klinicheskogo otdeleniya detskoy ortopedii i travmatologii  
(zav. - prof. V.D.Chaklin na baze Moskovskogo ortopedicheskogo  
gospitalya (nachal'nik - doktor med.nauk S.N.Voskresenskiy)  
i iz patologoanatomicheskogo otdeleniya (zav. - zasluzhennyy  
deyatel' nauki prof. T.P.Vinogradova) Tsentral'nogo instituta  
travmatologii i ortopedii (dir. - prof. M.V.Volkov).

\*

DEGTYAREVA, S.I.; LAVRISHCHEVA, G.I., kand. med. nauk

Auto- and homoplasty of tendons; experimental study. Ortop.,  
travm. i protez. no.9:35-39 '62.

(MIRA 17:11)

1. Iz otdeleniya ortopedii (zav. - doktor med. nauk M.D. Mikhel'man)  
i iz patologoanatomicheskogo otdeleniya (zav. - prof. T.P. Vinc-  
grudova) Tsentral'nogo instituta travmatologii i ortopedii (dir. -  
deystvitel'nyy chlen AN SSSR prof. N.N. Priorov [deceased]).

DEGTYAREVA, S.I.; LAVRISHCHEVA, G.I.

Effect of suture material on the regeneration of tendons;  
experimental study. Ortop., travm. i protez. 26 no.1:52-56  
Ja '65. (MIRA 18:5)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. -  
chlen-korrespondent AMN SSSR prof. M.N. Volkov). Adres avtorov:  
Moskva A-299, ul. Priorova, d.2. TSentral'nyy institut travma-  
tologii i ortopedii.

LAVRISHCHEVA, G.I.; DUBROV, E.Ya. (Moskva)

Primary healing of bone injuries. Arkh. pat. 27 no.3:37-43  
'65. (MIRA 18:5)

1. Tsentral'nyy institut travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov; zav. patologoanatomicheskim otdeleniyem - prof. T.P. Vinogradova) Ministerstva zdorovookhraneniya SSSR, I khirurgicheskaya klinika (zav. - prof. N.I. Makhov) i patomorfologicheskoye otdeleniye (nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof. A.P. Avtsyn) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni Vladimirskego.

LAVRISHCHEVA, L. N.

Dissertation: "Synthesis of Hydrocarbons With Quaternary Atoms of Carbon of the Composition C<sub>10</sub>-C<sub>22</sub>." *Chem Sci*, Moscow Chemicotechnological Inst imeni D. I. Mendeleev, Moscow, 1953. *Referativnyy Zhurnal—Khimiya*, Moscow, No 7, Apr 54.

SO: SUM 284, 26 Nov 1954

LAVRISHCHEVA L.N.

Reaction of alkylmagnesium halides with dihalohydrins of ditertiary acetynes give 99% A. D. Petrov and L. N. Lavrisheva. *Doklady Akad. Nauk S.S.S.R.* 89, 818-819 (1953). 2,2,5,5-Tetramethyl-1-octyne-3,6-diol, m. 74°, was prepd. in 81% yield according to Zal'kind, et al. (*C.A.* 34, 2788). This (220 g.) in  $\text{CCl}_4$  contg. 41 g.  $\text{CaCl}_2$  (to absorb the  $\text{H}_2\text{O}$ ) was treated with dry  $\text{HCl}$  17 hrs. at 0-3° and the soln. blown with  $\text{N}$  and dried, giving the dichloride,  $\text{C}_{10}\text{H}_{16}\text{Cl}_2$  (I), m. 113° (from petr. ether). This could be oxidized only by 5%  $\text{KMnO}_4$  which yielded  $\text{Me}_2\text{C}(\text{OH})\text{CO}_2\text{H}$ , m. 160-1°. I (129.5 g.) added over 3 hrs. to  $\text{Me}_2\text{MgBr}$  (from 48 g.  $\text{Mg}$ ) and heated 8 hrs. gave 41.7 g. product, b. 65-7.5°, which was a mixt. of hydrocarbons. Oxidation of this with 4.5%  $\text{KMnO}_4$  gave  $\text{Me}_2\text{C}(\text{CO}_2\text{H})_2$  and a substance, m. 41-2°, close to  $\text{C}_{10}\text{H}_{16}\text{O}$ , apparently an oxide. I with  $\text{EtMgBr}$  formed 42% of a product,  $\text{C}_{12}\text{H}_{20}$ , b. 90.5-90°,  $n_D^{20}$  1.4830,  $d_4^{20}$  0.8178. Hydrogenation over  $\text{Ni}$  at 180° gave a product b. 237-9°,  $n_D^{20}$  1.4392,  $d_4^{20}$  0.7820. I with  $\text{CH}_3\text{CH}_2\text{MgBr}$  gave a hydrocarbon, b. 60-2°,  $n_D^{20}$  1.4942,  $d_4^{20}$  0.8297, whose hydrogenation product,  $\text{C}_{12}\text{H}_{22}$ , b. 248-9°,  $n_D^{20}$  1.4398,  $d_4^{20}$  0.7850. I with  $\text{BuMgCl}$  gave 22% of a hydrocarbon, b. 101-3.5°,  $n_D^{20}$  1.4753,  $d_4^{20}$  0.8311, which with  $\text{KMnO}_4$  in  $\text{Me}_2\text{CO}$  yielded a red neutral product,  $\text{C}_{12}\text{H}_{18}\text{O}_2$ , b. 145-55°,  $n_D^{20}$  1.4705,  $d_4^{20}$  0.8828, and an acid (*Ag salt*,  $\text{C}_{11}\text{H}_{18}\text{O}_2\text{Ag}$ ). The results show that I was a mixt. of  $(\text{Me}_2\text{C}(\text{Cl})\text{C}(\text{Cl})_2)_n$  and  $(\text{CCMe}_2\text{CMe}_2\text{Cl})_n$  of which only the former reacted with  $\text{RMgX}$ , yielding compds. of the type  $(\text{CCMe}_2\text{RCMe}_2)_n$ . The latter dichloride did not react with  $\text{RMgX}$  and merely lost  $\text{HCl}$ , yielding  $(\text{CCMe}_2\text{CMe}_2\text{CH})_n$ , which was difficultly separable from the normal products, except in cases with large R groups. The hydrogenation products listed above are the olefinic analogs of the acetylenes, since hydrogenation beyond this stage was impossible under the conditions used.

G. M. Kosolapoff

LAVRISHCHEVA, L.N.

6

U S S R .

Synthesis of paraffin hydrocarbons with two adjacent-  
 quaternary carbons. N. D. Fedrov and L. N. Lavrishcheva  
 (N. D. Zelinskii Inst. Org. Chem., Acad. Sci. U.S.S.R.,  
 Moscow). Izvst. Akad. Nauk S.S.S.R., Otdel. Khim.  
 Nauk 1954, 733-40; Bull. Acad. Sci. U.S.S.R. Div. Chem.  
 Sci. 1954, 631-6 (Engl. translation); cf. C.A. 47, 3218d;  
 1959c.—To 0.3 g. Mg in 1 l. Et<sub>2</sub>O was added over 14 hrs. a  
 soln. of 269 g. CCl<sub>4</sub>:CH<sub>2</sub>Cl<sub>2</sub> and 201 g. AcCMe<sub>2</sub>; reflux-  
 ing 8 hrs. followed by treatment with ice and dil. HCl gave  
 77% (CH<sub>3</sub>:CHCH<sub>2</sub>)CMe<sub>2</sub>COH, b. 168-72°, n<sub>D</sub><sup>20</sup> 1.4462.  
 This (247 g.) soln. with dry HCl in the presence of Na<sub>2</sub>SO<sub>4</sub> at  
 0-3° gave Me<sub>2</sub>CCMeCCH:CHMe, with a trace of Me<sub>2</sub>C-  
 CMeCCH:CH:CH<sub>2</sub>; the product (I), b. 40-7°, n<sub>D</sub><sup>20</sup> 1.4575,  
 d<sub>4</sub><sup>20</sup> 0.9101. The structure confirmation results from oxida-  
 tion with KMnO<sub>4</sub> which gave (CO<sub>2</sub>H)<sub>2</sub> and MeCMe<sub>2</sub>CMe-  
 (OH)CO<sub>2</sub>H, m. 141-3°. I (64 g.) and 118 g. MeI were  
 added to 24 g. Mg under Et<sub>2</sub>O over 4 hrs. with cooling and  
 after 10 hrs. at reflux there was obtained 17.7 g. Me<sub>2</sub>CC-  
 (CH<sub>3</sub>)CH:CHMe, b. 120-0°, n<sub>D</sub><sup>20</sup> 1.4275, d<sub>4</sub><sup>20</sup> 0.7610, and 2  
 g. C<sub>8</sub>H<sub>18</sub>, b. 167-8°, n<sub>D</sub><sup>20</sup> 1.4830, d<sub>4</sub><sup>20</sup> 0.7804, along with

CH

over

unidentified products. Oxidation of the  $C_{11}H_{16}$  diene above gave  $HCO_2H$ ,  $AcOH$ , trimethylpyruvic acid and apparently  $Me_2C(O)CH(OH)Me$ , m.  $51^\circ$ . Treatment of I and  $CH_2=CHCH_2Br$  with Mg, as above, gave 20.0% 2-tert-butyl-1,3-pentadiene and 23%  $Me_2C(O)CH(OH)Me$ ; hydroxylation of the latter gave 2,2,3-trimethyl-3-pentylhexane, b.  $191-3^\circ$ ,  $n_D^{20}$  1.4310,  $d_4^{20}$  0.7654, l.p. below  $-70^\circ$ . Oxidation of the diene with  $KMnO_4$  gave  $HCO_2H$ ,  $AcOH$ , trimethylpyruvic acid and dibasic acids,  $C_{11}H_{18}O_4$  and  $C_{11}H_{16}O_4$ , isolated as *di-Ag salts*. Reaction of I and  $PrBr$  with Mg, as above, gave 30%  $C_{11}H_{16}$ , b.  $126-8^\circ$ ,  $n_D^{20}$  1.4262,  $d_4^{20}$  0.7615, and 23%  $C_{11}H_{16}$ , b.  $177-6^\circ$ ,  $n_D^{20}$  1.4328,  $d_4^{20}$  0.7604 (which was very difficultly oxidized with  $KMnO_4$  yielding traces of trimethylpyruvic acid and a monobasic acid  $C_{11}H_{16}O_4$  (isolated as *Ag salt*), along with  $AcOH$ . A small amount of  $C_{11}H_{16}$ , b.  $250-60^\circ$ ,  $n_D^{20}$  1.4819,  $d_4^{20}$  0.8169, was isolated from the higher fractions of the reaction products. G. M. Kosolapoff



Distr: 4E3d/4E1j

7

Reduction of naphthoicarboxylic acids. I. Preparation of 1-hydroxy-2-naphthaldehyde. L. N. Lavrishchera, N. M. Przhivalovskaya, S. A. Volkovich, and V. S. Eray (D. I. Mendeleev Chem. Technol. Inst., Moscow). *Zhur. Obshchei Khim.* 27, 1234-6 (1957). Electrolytic reduction of 10 g. 1-hydroxy-2-naphthoic acid in 8 g. Na<sub>2</sub>CO<sub>3</sub>, 100 ml. H<sub>2</sub>O, and 20 g. H<sub>3</sub>BO<sub>3</sub> in the presence of 8 g. p-MeC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> at 20° 2 hrs. in a divided cell with stirring, using an Ni anode and a liquid Na-Hg cathode which serves as the seal between the compartments, gave 62% 1-hydroxy-2-naphthaldehyde, m. 55-6°; *oxime*, m. 146-7°. The reaction yields a yellow Schiff base which is decompd. by steam distn. in the presence of dil. H<sub>2</sub>SO<sub>4</sub> to yield the aldehyde. Variation of conditions gave slightly lower yields. The complex with boric acid must remain in soln. if best yields are to be realized. G. M. Kosolepoff

PM

Handwritten text at top left, possibly "L. N."

7

Reduction of naphthalenecarboxylic acids. II. Synthesis of 2,3-tetrahydro-2-oxo-1,2,3,4-tetrahydronaphthalene-3-carboxylic acid and its decomposition to 1,2,3,4-tetrahydro-2-oxo-1,2,3,4-tetrahydronaphthalene-3-carboxylic acid.  
 L. N. Lavrish, *Dokl. Akad. Nauk SSSR*, 1957, 129, 81-83 (1957); *Chem. Abstr.*, 52, 12980c (1957); *ibid.*, 53, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

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1/1

Distr: LELj/LE3d/AM

S/079/60/030/05/45/074  
B005/B016AUTHORS: Przhiyalgovskaya, N. M., Lavrishcheva, L. N., Belov, V. N.TITLE: Reduction of Naphthol Carboxylic Acids III. Methyl Ester of  
2,3-Tetralone Carboxylic Acid

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1617-1620

TEXT: The authors developed a method of esterifying 2,3-tetralone carboxylic acid (I). The methyl ester of this acid (II) is a stable compound, and may be used for syntheses which are characteristic of  $\beta$ -ketonic esters. The ester (II) was obtained by treating the ethereal solution of acid (I) with diazomethane in a yield of 74-75%. To confirm the structure of the ester, ketonic cleavage was carried out which yielded  $\beta$ -tetralone as was expected. On the attempt to produce the ester (II) by esterifying (I) with methanol in the presence of anhydrous hydrogen chloride, the dimethyl ester of the enol form of 2,3-tetralone carboxylic acid (III) was obtained as principal product while the desired monomethyl ester (II) was formed in negligible quantities only. The dimethyl ester (III) can also be obtained from (II) by treatment with methanol in the presence of

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Reduction of Naphthol Carboxylic Acids. III.  
Methyl Ester of 2,3-Tetralone Carboxylic Acid

S/079/60/030/05/45/074  
B005/B016

hydrogen chloride. The authors pointed out that the hydroxyl group of 2,3-hydroxy naphthoic acid and its methyl ester is not alkylated under the same conditions. By saponifying compound (III), 2-methoxy-1,4-dihydro-3-naphthoic acid (IV) was obtained. To confirm the structures of the two compounds (III) and (IV), the ester (III) was dehydrogenated by means of sulfur at 200-240°. The resultant product was saponified with 2-methoxy-3-naphthoic acid being formed the melting point of which agrees with published data (Ref. 6). In an experimental part, all operations performed are described in detail. For each of the resultant products, yield, melting (or boiling) point, and data of the ultimate analysis are given. The schemes of the transformations carried out are presented. There are 6 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni  
D. I. Mendeleeva (Moscow Institute of Chemical Technology  
imeni D. I. Mendeleev)

SUBMITTED: May 18, 1959

Card 2/2

LAVRISHCHEVA, L.N.; PRZHIYALGOVSKAYA, N.M.; BELOV, V.N.

Reduction of hydroxynaphthoic acids. Part 5: Indirect  
electroreduction of 2,1-hydroxynaphthoic acid: Zhur.ob.  
khim. 31 no.8:2762-2766 Ag '61. (MIRA 14:8)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I.  
Mendeleeva.

(Naphthoic acid) (Reduction, Electrolytic)

PRZHIYALGOVSKAYA, N.M.; LAVRISHCHEVA, L.N.; MONDODOYEV, G.T.; BELOV, V.N.

Reduction of naphtholcarboxylic acids. Part 4: Indirect electro-reduction of 2,3-naphtholcarboxylic acid in aqueous and methanol media. Zhur.ob.khim. 31 no.7:2321-2325 J1 '61. (MIRA 14:7)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleeva.

(Naphthoic acid)

LAVRISHCHEVA, L.N.; PRZHIYALGOVSKAYA, N.M.; BELOV, V.N.

Reduction of hydroxynaphthoic acids. Part 6: Preparation of methyl ester of 2,1-tetralonecarboxylic acid. Zhur.ob.khim. 31  
no.9:2911-2914 S '61. (MIRA 14:9)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleyeva.

(Naphthoic acid)

PRZHIYALGOVSKAYA, N.M.; LAVRISHCHEVA, L.N.; MONDODOYEV, G.T.; BELOV, V.N.

Reduction of naphtholcarboxylic acids. Part 8: Reduction  
dimerization of methyl esters of 2,3- and 2,1-naphtholcarboxylic  
acids. Zhur.ob.khim. 33 no.2:632-635 F '63. (MIRA 16:2)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I.  
Mendeleeva.

(Naphthoic acid)

(Reduction, Electrolytic)



LAVRISHCHEVA, L.N.; FEDOROVA, G.A.; BELOV, V.N. [deceased]

Benzacridines. Part 1: Synthesis of 5-alkylamino-1,2-dihydro-3,4-benzacridines. Zhur.ob.khim. 33 no.12:3961-3964 D '63.(MIRA 17:3)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendeleeva.

LAVRISHCHEVA, N.A.; CHERNOVA, A.I.

Complex treatment of chronic dysentery in children up to 3 years  
of age in children's home. Vop.okh.mat.i det. 2 no.3:37-40 My-Je '57.  
(MIRA 10:7)

1. Iz doma rebenka No.2, Ivanovo.  
(DYSENTERY)

LAVRISHCHEVA, T. M., inzh.; YEMEL'YANOVA, N. A. [IEmel'ianova, N. A.],  
inzh.

Production of malt from corn. Khar. prom. no.1:30-32 Ja-Mr '63.  
(MIRA 16:4)

(Malt) (Corn(Maise))

ACC NR: AP7002538

(A)

SOURCE CODE: UR/0413/66/000/023/0012/0012

INVENTOR: Knyazev, N. N.; Bokov, Yu. S.; Lavrishev, V. P.; Pavlov, S. A.

ORG: none

TITLE: Preparative method for crosslinked polymer coatings. Class 8, No. 188942

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 12

TOPIC TAGS: polymer coating, chlorosulfonated polyethylene, polymer crosslinking, UV irradiation

ABSTRACT:

An Author Certificate has been issued for a method of preparing crosslinked chlorosulfonated polyethylene-based polymer coatings with improved mechanical properties. The method involved application on the substrate of a chlorosulfonated polyethylene solution containing added triethylene glycol dimethacrylate and a sensitizer [unspecified], removal of the solvent by drying, and UV irradiation.

SUB CODE: 11, 07/ SUBM DATE: 17Dec64/ ATD PRESS: 5112

Card 1/1

UDC: 678.741-416-9:547.391.3'422.2

LAVRIYCHUK, I.I.

[Nursery for subtropical plants in the subtropical and new districts of Krasnodar Territory] Pitomnik subtropicheskikh kul'tur v subtropicheskikh i novykh raionakh Krasnodarskogo Kraia. Krasnodar, Kraevoe Gos.izd-vo, 1951. 75 p.

(MIRA 13:6)

(Krasnodar Territory--Tropical fruit)

LAVRIYCHUK, I. I.

Citrus Fruits

On accelerated development of new varieties of citrus trees. Biul. Glav. bot. sada No. 10, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

1. LAVRIYCHUK, I. I.
2. USSR (600)
4. Citrus Fruits
7. New method for growing citrus plants outside subtropical regions. Sad i og. no.10, 1952

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

LAVRIYCHUK, I.I., kand.sel'skokhozyaystvennykh nauk

Planting citrus trees in clusters. Agrobiologiya no.1:143-146  
Ja-F '59. (MIRA 12:4)

1. Sochinskaya opytnaya stantsiya subtropicheskikh i yuzhnykh  
plodvykh kul'tur. (Citrus fruits)



ZORIN, F.M., kand. sel'khoz. nauk; LAVRIYCHUK, I.I., kand. sel'-  
khoz. nauk; SERGEYEV, V.I., red.

[Breeding and cultivation of citrus fruits in the northern  
part of the subtropics] Seleksiia i agrotekhnik tsitru-  
sovykh na Severe subtropikov. Moskva, Izd-vo "Kolos,"  
1964. 231 p. (MIRA 17:8)

LAVROHENKO, Ya. Ya. inzh. (g. Lugansk)

Remote control of cage hoisting. Ugol' 35 no.1:20-23 Ja  
'60. (MIRA 13:5)

(Remote control)  
(Lugansk Province--Mine hoisting)

LAVRONOV, G. A.

Forests and Forestry - Uzbekistan

Silviculture on non-irrigated land in Uzbekistan. Les i step' 5 No. 1, 1953.

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

USSR/Soil Science. Tillage. Land Reclamation. Erosion.

J-5

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24839.

Author : Lavronov, G.A.

Inst :

Title : Moisture-Charging Irrigations in Dry Farming.  
(According to Materials, Collected for a Generalization  
of the Experience of Front-Rank Collective Farmers.)

Orig Pub: Dyul. nauchno-tekhn. inform. Milyutinsk. gos. selekts.  
st., 1957, No 2, 19-22.

Abstract: No abstract.

Card : 1/1

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