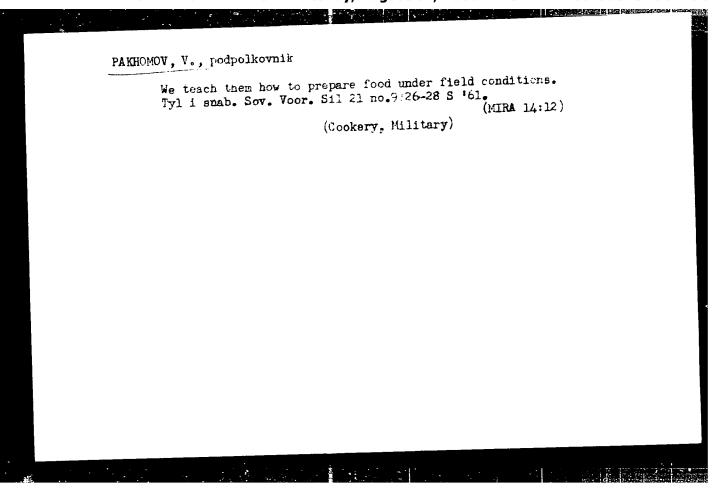
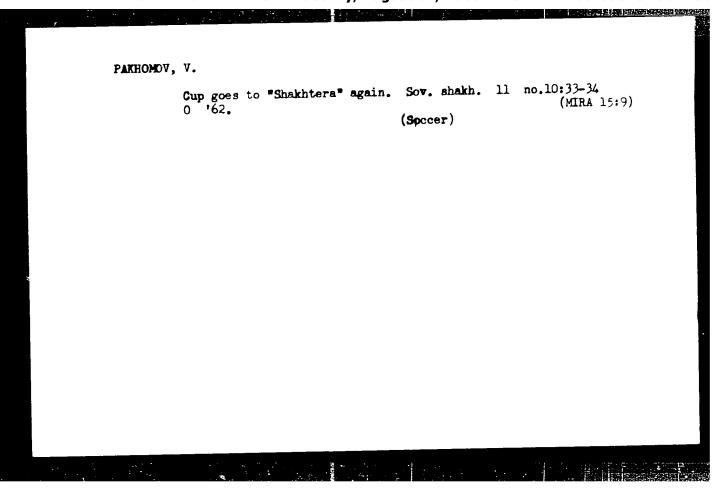
THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

DOROKHOV, S.M.; <u>PAKHOMOV, S.P.</u>; POLYAKOV, G.D.; DOBYCHINA, I.N., red.; GUREVICH, M.M., tekhn. red.

[Pond fish culture] Prudovoe rybovodstvo. Pod red. G.D.Poliakova. Izd.2., ispr. i dop. Moskva, Sel'khozizdat, 1962. 263 p.
(MIRA 16:4)
(Fish culture)

PAKHOMOV, S. P.: Mister Med Sci (diss) -- "A comparative evaluation of methods of intestinal suture in resection of the small intestine under experimental conditions". Gor'kiy, 1950. 14 pp (Gor'kiy State Med Inst im S. M. Kirov), 200 copies (KL, No 4, 1959, 171)





ZAGORUL'KO, S. (Donetsk); PAKHOMOV, V. (Kazan')

Office of innovations of commercial aviation. Grazhd.av. 19
no.10:20 0 '62. (MIRA 16:2)

1. Nachal'nik shtaba Donetskogo podrazdeleniya Grashdanskogo vozdushnogo flota (for Zagorul'ko). 2. Glavnyy inshemer lineynykh ekspluatatsionno-remontnykh masterskikh, Kazan' (for Pakhomov).

(Aeronautics, Commercial—Technological innovations)

PARHONON, V. (Voronesh) This can also happen this way... Posh.delo 5 no.12:15 (Repair and supply stations-Fires and fire prevention)

PAKEGIOV V

Manufacture of panels from organic glass. Radio no.7:49
J1 162. (MIRA 16:6)

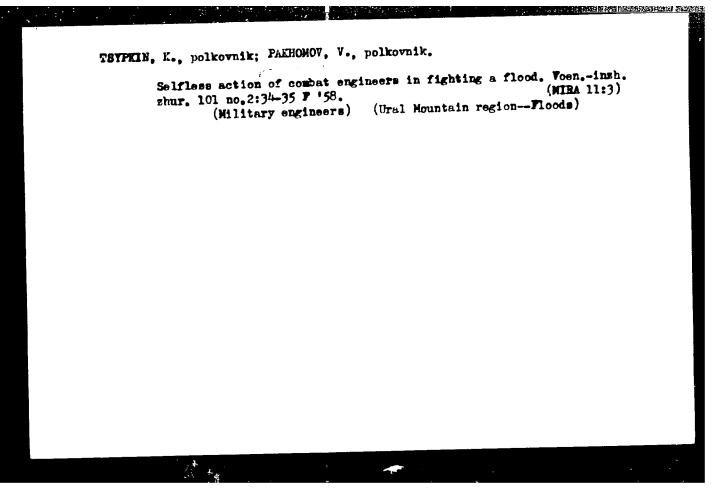
(Radio-Equipment and supplies)

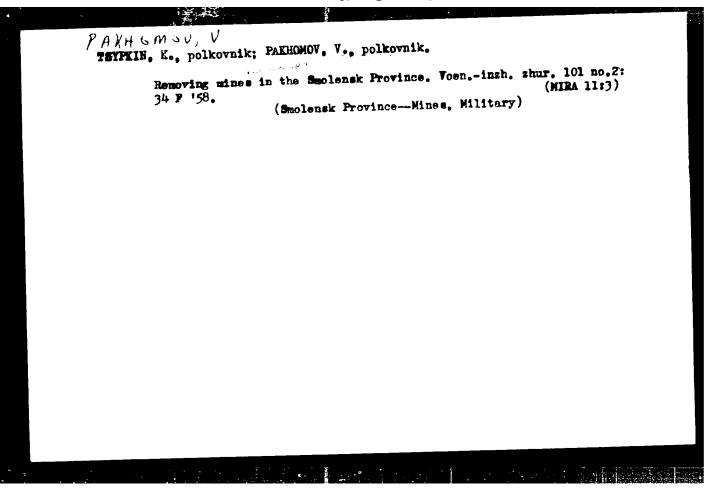
TSYFKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

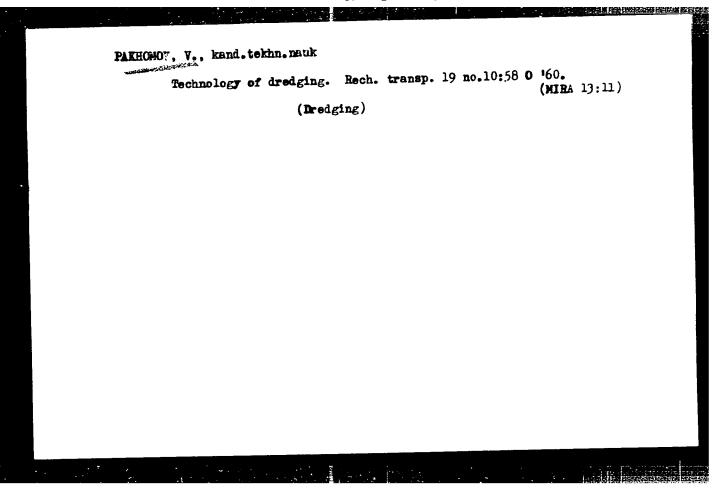
Clearing the building site of the Stalingrad Hydroelectric Power Station of mines. Voen,-inzh, zhur, 101 no.2:33-34 F '58.

(NIRA 11:3)

(Stalingrad Hydroelectric Power Station--Mines, Military)







L 1167-66

ACCESSION 1

UR/0348/65/000/004/0029/0029

632.951

N. (Candidate of agricultural sciences)

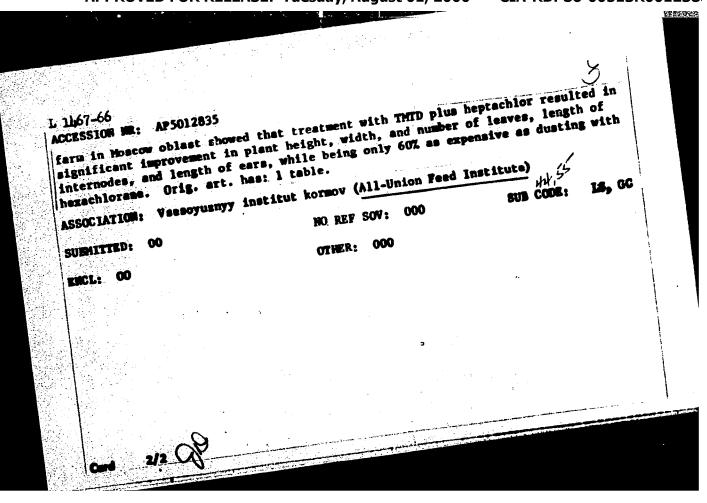
Pakhomov, V.

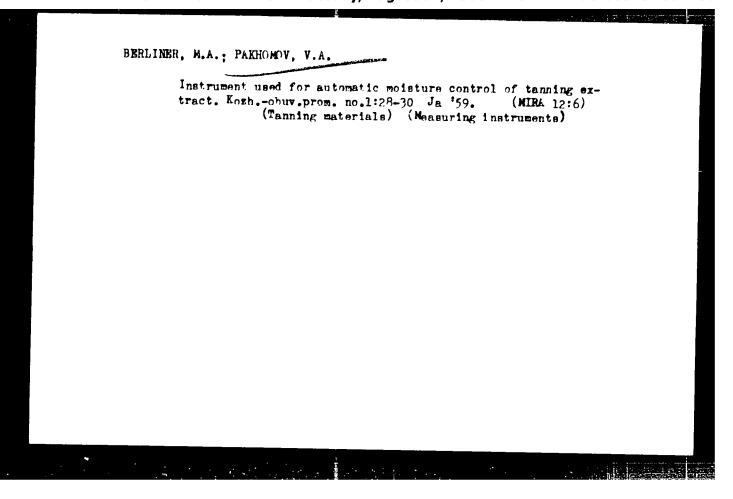
TITIE: The use of insecticides with sticking agents

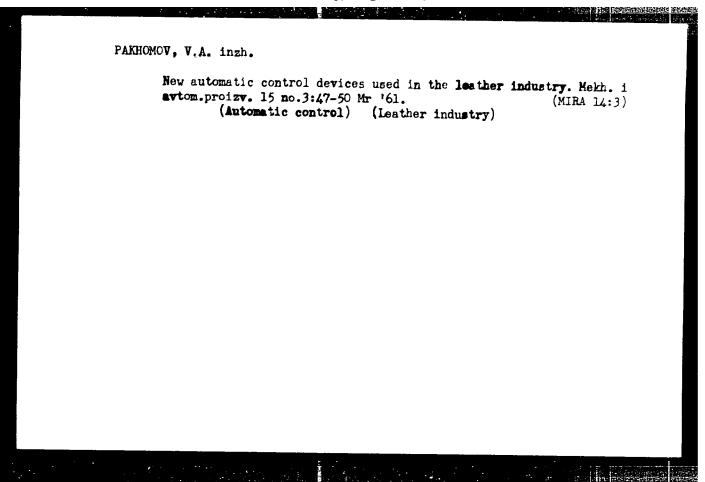
SOURCE: Zashchita rasteniy ot vrediteley i bolezney, no. 4, 1965, 29

TOPIC TAGS: food technology, agriculture, insecticide

ABSTRACT: The authors report the results of experiments on the treatment of corn seed before sowing with a spray instead of dust, using a sulfite-alcohol malt concentrate as the sticking agent. Experiments were carried out with Bukovinskiy 3 corn in 1962-1964 on 30-50 m^2 plots at the Vsesoyuznyy institut kormov (All-Union Feed Institute) and the Moskovskaya selektsionnaya stantsiya (Moscow Selection Station). Seed was treated 1.5-2 months and 3 days before sowing with solutions containing 50 - 100 g of malt concentrate plus either 400 - 600 g of 60% TMTD (tetramethylthiuram disulfide) with 20% heptachlor or & -hexachlorocyclohexane, or 200-400 g of ThTD plus 1-2 kg of 12% hexachlorocyclohexane, all per 100 kg of seed. This decreased the incidence of disease from 32 to 0.5%, increased the germinstion rate by 8-267, and increased the yield of green fodder to 35.6-37.3metric tons per hectare. Experiments carried out in 1964 at the "Menshinets" state Card 1/2







PAFHOMOV, V. A.

"Study and Development of Tachnical Methods of Increasing the Working Efficiency of Agricultural Hammer Mills." Min. Higher Effication USSR, Ukrainian Order of Labor Red Banner Agricultural Academy, Kishinev, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SC: Knizhnaya Letopis', No. 22, 1955, pp 93-105

PAKHOMOV, V. B.: Master Tech Sci (diss) -- "Investigation or rlattenin...

structures (or earth)". Gor'kiy, 1958. 15 pp (Min River Fleet RSFSR, Leningrad Inst or Water Transport Engineers), 150 copies (KL, No 7, 1959, 125)

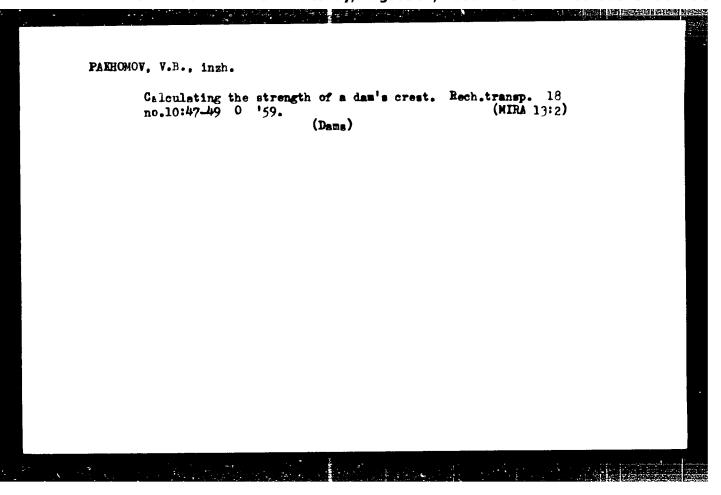
PAKHOMOV, V. B. Cand Tech Sci -- (diss) "Study of corrective structures (made of and)." Gor'kiy, 1959. 15 pp (Min of Higher and Specialized Secondary Education RSFSR. Gor'kiy Construction Engineering Inst im V. P. Chkalov), 150 copies (KL, 46-59, 138)

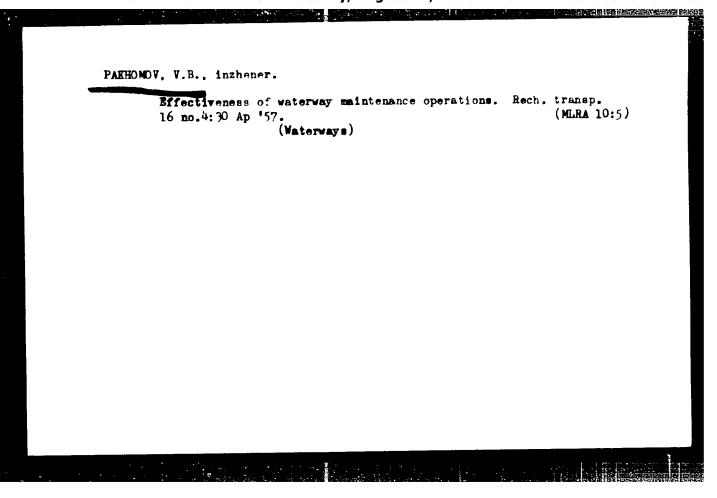
_3.0 _**59**_

PAKHOMOV, V.B., kand. tekhn. nauk; NAUMOV, A.I., inzh.; SHEIMANOV, V.S., inzh.; KONSTANTINOV, V.P., inzh.; KCSTIN, A.M., inzh.; SEMENOV, YU.K., inzh.; PYATLIN, A.A., kapitan; VAGANOV, G.I., kand. tekhn. nauk; SVIEIDOV, A.A., inzh. KHODUNOV, M.Ye., kand. yurid. nauk; SAPOGOVA, A.Ye., inzh.; SOYUZOV, A.A., doktor tekhn. nauk, prof., red.; VASIL'YEV, A.V., kand. tekhn. nauk; ALEKSEYEV, V.I., red.; KUSTOV, L.I., red.; VITSINSKIY, V.V., red.; BORISOV, I.G., red.; SOLAREV, N.F., red.; ANDRIYENKO, V.I., red.; SUTYRIN, N.A., red.; GOLOVNIKOV, V.I., red.; ZOTOVA, V.V., red.

[Manual for the navigator of a river fleet] Spravochnik sudovoditelia rechnogo flota. Izd.2., dop. Moskva, Transport. (MIRA 18:2)

1. Gor'kovskiy institut inzhenerov vodnogo transperta (for Pakhomov, Semenov, Vaganov, Vasil'yev). 2. Meskovskiy rechnoy tekhnikum (for Naumov). 3. Volzhskoye ob"yedinerneye rechmoye parekhodstvo (for Shelmanov. Raroseva) 7. Menisterstvo rechnogo flota (for Konstantinov, Sviridov). 5. Kazanskiy port (for Kostin). 6. Moskovskoye rechnoye parekhodstvo loc iya'lin).





PAKHOMOV, V.B., ingh.

Design and calculation of hydraulic fill structures isolating flood basins from navigable channels. Rech.transp. 16 no.9:22-25 S '57.

(Rivers--Regulation)

(Flood dams and reservoirs)

THE REPORT OF THE PROPERTY OF THE

BONDAREVSKIY, Yu. P., inzh.; PAKHOMOV, V. G., inzh.

Volga-Baltic Sea Waterway. Transpstroi 13 no. 11:26-28
N *63.

(MIRA 17:5)

SOLOV'YANOV, L.M.; VOLOD'KO, N.P.; PAKHOMOV, V.I. High-duty telescoping drills. Biul. TSNIICHM no. 8:36-37 \$58. (MIRA 11:7) 1. Giprorudmash. (Boring machinery)

PITSEHELAURI, Grigoriy Zakharovich; PAKHCMOV, V. I., redaktor; ROMANOVA, Z.A., tekhnicheskiy redaktor

[Organization of medical services for workers in the petroleum industry of the U.S.S.R.] Organizatsiia mediko-sanitarnogo Obsluzhivania rabochikh neftedobyvaiushchei promyshlennosti SSSR. Moskva, Gos.isd-vo med. lit-ry, 1955. 179 p. (MLRA 9:2) (PETROLEUM INDUSTRY--MEDICAL AND SANITARY AFFAIRS)

KROTKOV, Fedor Grigor'yevich, general-mayor meditsinskoy sl. zhby;
PAKHOMOV, V.I., polkovnik meditsinskoy sluzhby, red.; STREL'BHROVA; W.Y., tekhn.red.

[Military hygiene] Voennais gigiene. Moskva, Voen.izd-vo
M-va obor.SSSR, 1959, 366 p. (MIRA 12:12)

(Military hygiene)

SPASSKIY, Vladislav Akimovich, polkovnik med. sluzhby, prof.;

ARKAYEV, Viktor Alekseyevich, polkovnik, med. sluzhby,
dots.; Prinimali uchastiye: ANTIPIN, G.M., podpolkovnik
med. sluzhby; POLYAKOV, V.I., podpolkovnik med. sluzhby;
PAKHOMOV, V.I., polkovnik med. sluzhby, red.; CHAPAYEVA,
R.I., tekhn. red.

[Military hygiene) Voennala gigiena. Izd.2., perer. i dop.
Moskva, Voenizdat, 1962. 167 p.

(MIRA 15:8)

PAKHOMOV, V.1. USER/Chemistry - Physical

FD-1146

Card 1/1

Pub. 129-10/23

Author

: Batsanov, S. S.; Pakhomov, V. I.

Title

: Refractions of chlorine substituted alcohols and acids of the aliphatic

series

Periodical

: Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 7, 83-86, Oct 1954

Abstract

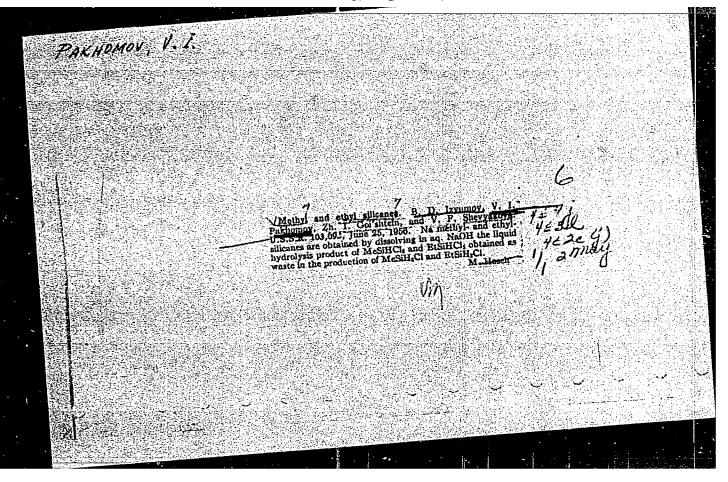
: Studied the effect of the presence of a halogen atom near the carboxyl group in a number of aliphatic compounds, on the refractive index and on

the molecular refraction. Eighteen references (seven USSR).

Institution : Chair of Crystallography and Crystal Chemistry

Submitted

: May 14, 1954



PAKHTIMOV. VI

USSR/Physical Chemistry - Molecule. Chemical Bond, B-4

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60810

Author: Batsanov, S. S., Pakhom v. V. I.

Institution: None

Title: On Refractions of a ... Substituted Naphthalenes

Periodical: Vestn. Mosk. un.ta 1956, No. 2. 65-67

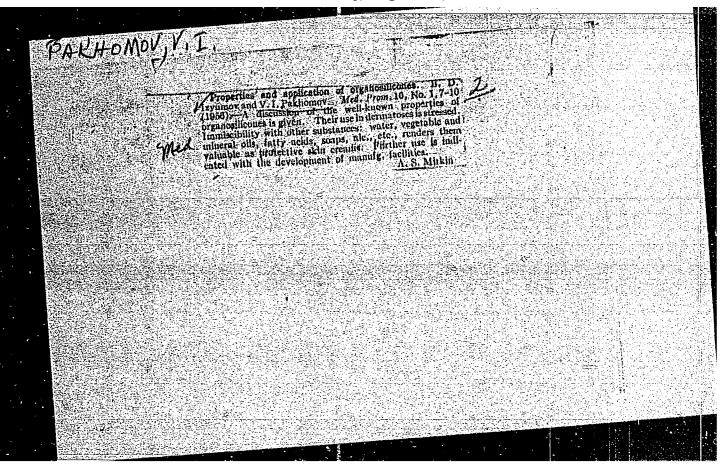
Abstract: By comparison of refractions of imposeric monosubstituted naphthalenes it is shown that Consomers (I) have lower refraction than

Alsomers (II). The authors attribute this to the fact that in I overlapping of Van der Waals spheres of adjoining atoms not combined through valence and consequently the decrease of ef-

fective volume of molecule is greater than in II. Difference in refractions of T and II and Van der Waals radii increase in

the series B. C. N. C. Cl and J.

Card 1/1



PAKHOKIOV, V. 1.

BSSR/ Chemistry - Hydrogen bonds

Pub. 147 - 17/35

Bateanor, S. S., and Pakhtmov, V. I.

Title : New methods of quentitative investigation of a hydrogen bond. Part 1.

Holal volume

Mary Cla. khim. 30/1, 142-154, Jan 1956

Abstract I New methods for the study of the formation of hydrogen bonds are described.

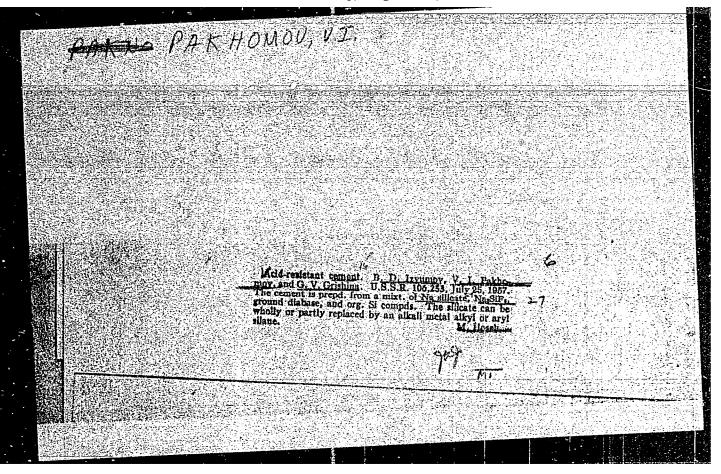
Actual experiments showed that the formation of hydrogen bonds in inorganic

Accusa experiments subset what solutions of the compounds. It was established substances increases the molal volume of the compounds in organic compounds that the formation of intermolecular hydrogen bonds in organic compounds reduces their molal volumes and that an intramolecular hydrogen bond produces no essential effect on the compounds. The values of the volumetric hydrogen bond increments were found to vary in accordance with their forces. Twenty-three references: 8 USSR, 6 USA, 7 Germ., 1 Indian and 1 Eng. (1841-1955).

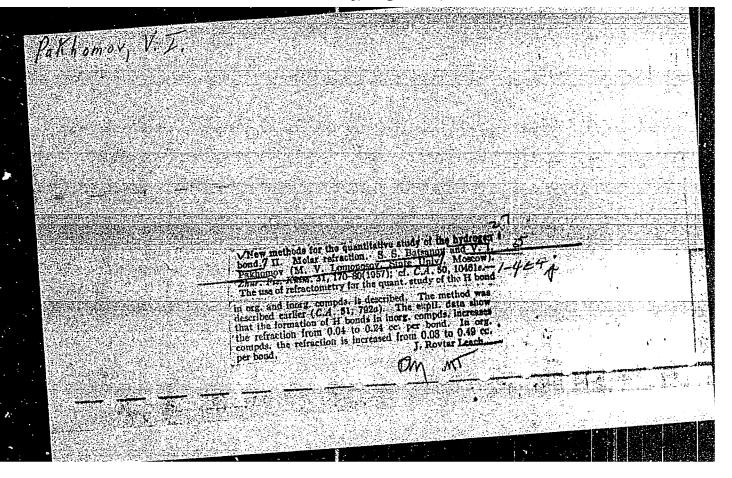
Tables; graphs.

Build and the State University in M. Y. Leasence

Marie 1 No. 3, 1955



Pakhomov, V. I. BATSANOV, S.S.; PAKHONOV, V. I Changes in the nature of chemical bonds in case of changes of coordination numbers. Kristallografiis 2 no.1:183-186 '57. 1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Chemical bonds) (Coordination numbers)



s/081/62/000/011/046/057 E202/E192

AUTHOR:

Pakhomov, V.I.

TITLE:

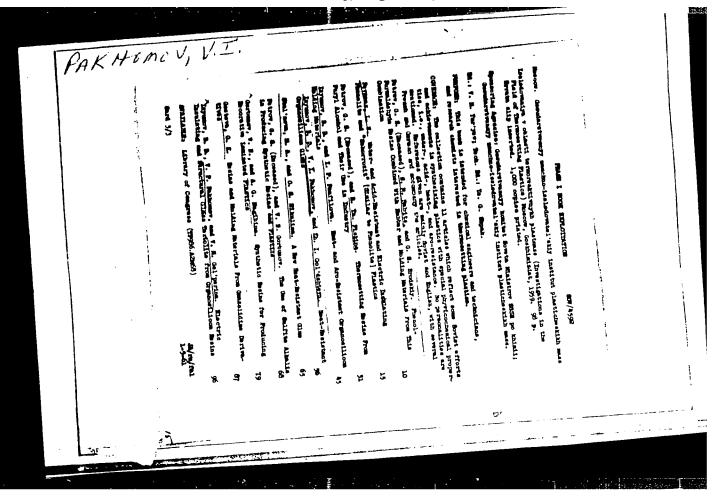
Application of organosilicon polymers in machine

PERIODICAL: Referativnyy zhurnal, Khimiya, no.11, 1962, 591, abstract 11 P 67. (In the Symposium: "Plastmassy v mashinostr." ("Plastics in Machinery"), M., Mashgiz,

A brief description of advantages and shortcomings of organosilicon polymers is given, with a general review of preparation, properties and application of organosilicon liquids, rubbers, varnishes and plastics. The basic characteristics of the organosilicon plastics of types K-41-5 (K-41-5), K-71 (K-71), KMK-9 (KMK-9), KMK-218 (KMK-218), and methylphenylpolysiloxane varnishes of types K-41, K-43, K-44, K-47 and K-48 are also given.

[Abstractor's note: Complete translation.]

Card 1/1



s/081/61/000/014/028/030 B105/B202

AUTHORS:

Izyumov B. D., Pakhomov V. I., Gol'dshteyn Zh. I.

TITLE:

Water soluble hydrophobic organosilicon liquids

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1961, 619, abatract 14N55 (Vestn. tekhn. i ekon. inform. N.-i, in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, 1959.

No. 5 (17), 45-48)

TEXT: The authors discuss the properties and the fields of application of water-soluble organosilicon polymers which are used to waterproof textile products, paper, carton, leather, and building materials. Materials are waterproofed by means of aqueous solutions of the liquid PMC-9 (GMS-9) in the presence of catalysts (NH₃, CH₃COOH, H₂O₂, triethylamine, alum etc.) and by subsequent heat treatment (5-10 min at 130-150°C) for the fixation

of the foil. The liquids MSG-9 and ES-9 are aqueous solutions of sodium methyl and ethyl siliconate. They are applied by a brush, a spray or by immersion, and subsequently dried on air. The authors give data on the

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

S/081/6*/00C;0*4,028,030
B105/B202

effectiveness of the treatment of a series of materials by the liquids mentioned. [Abstracter's note: Complete translation]

ANTIONS: I. Vamor. B. D., Fakuer V. V. I., Punfilov. I. V.

TITLE: New types of organosilicon plastics

PERIODICAL: Referatively whurnal Etimiya, to a, 1971, 7.9, Wairest 5038 (1978) (Westn tekens tekens inform N. 10-1) tekens ekons isoled ors a netu Sev M. Such p. Knimes. 1979, 10-3 (1971) (KMK-2) molding materials, and CKM-9) molding materials, and CKM-9 (SKP-2) plass textolite technological, physic-chemical, and dielectric projecties, temperature-dependence physico-mechanical, and dielectric projecties, temperature-dependence of dielectric and machanical characteristics) [Abstracter's note: Complete translation]

Card 1/1

RAZHAM, V. [Bakant, V.], laureat Gosudarstvennoy premii; KHVALOVSKI, V. [Chvalovský, V.], laureat Gosudarstvennoy premii; RATOUSKI, I. [Rathouský, J.], laureat Gosudarstvennoy premii; VAYMSHTEYM, Yu.I. [Rathouský, J.], laureat Gosudarstvennoy premii; VAYMSHTEYM, Yu.I. [translator]; PAKHOMOV, V.I., red.; ZAZUL'SKAYA, V.F., tekhn.red. [Silicones; organosilicon compounds, their production, properties, and uses Silikony; kremnijorganicheskie soedinenija, ikh poluchemie, svoistva i primenenie, Moskva, Gos.nauchno-tekhn.isd-vo khim.lit-ry, 1960. 709 p. Translated from the Czech.

(Silicon organic compounds) (MIRA 14:4)

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3599/026/026/XX
1070/: /005/005/026/026/XX
B132/E160
                      2209, 1273, 13
                          The Structure of Molecules of the Series
        5.3700
                          Pakhomov, V.I.
        AUTHOR:
                                       .C._CH2-Hg-X
         TITLE:
                                  The Configuration of the Molecule
                           CH3
                           CH3--C
                           RO /
                                                CH3
                                              -C-CH2-Hg-S-C≡N
            PERIODICAL: Kristallografiya, 1960, Vol.5, No.5, pp.800-802
             TEXT:

The systematic study of mergury-organic derivatives of the above type where R may be H, CH3 or CH3

The above type where R may be H, CH3 or CH3

The above type where R may be H, CH3 or CH3
  ł
             the above type where R may be I, the above type where R may be Cl, Br, I, CNS, OCOCH3, CN or __ CH2 CH3.
  .
               is being commenced. Data on the case where R is C2H5 and
  P1
               1s peing commenced. Data on the case where R is C2H5 and The unit cell is orthorhombic with a = 15.62, The unit Z = 4 and the space group is Card 1/2
 Ri
 the
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 and
R y_a
mate:
There
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                Card 1/2
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                          · x 1960
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55997

S/C/0/12/005/005/026/026/XX

E132/E160

The Structure of Molecules of the Series CH3

CH3 - C - C - CH2 - Hg - X RO . CH3

1. The Configuration of the Molecule

e CH₃ CH₃ CH₃ CH₃ CH₃ -- C -- CH₂ -- Hg -- S -- C -= N C₂H₅O / CH₃

P212121. dobs. = 2.01 and Scale. = 2.06 g/cm3. Two dimensional Patterson projections on to 001 and 100 gave the mercury positions which controlled the signs for the succeeding electron density projections. Rough coordinates of the C atoms have been obtained giving the general configuration of the molecule. The ethyl and the thiocyanate groups are packed close to each other. Further refinement of the structure would require three dimensional data and is not contemplated. Acknowledgements are made to R Ya. Levina, V.N. Kostin and A.I. Kitaigorodskiy for supply of materials and assistance

There are } figures

SUBMITTED: March 7, 1960

Cain ala

37777

s/661/61/000/006/072/081 D247/D302

15.8170

Pakhomov, V. I., Izyumov, B. D. and Gol'dehteyn, Zh. I.

AUTHORS:

Thermostable silico-organic glues

TITLE:

Khimiya i prakticheskoye primeneniye kremneorganiches-

SOURCE:

kikh soyedineniy; trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad, Izd-vo AN SSSR 1961. 306-316

AN SSSR, 1961, 306-316

TEXT: Two methods are used for obtaining glues with both high thermal stability and good adhesion. The first is the modification of polysilicone resins by other polymers containing strong polar groups. The second is by the introduction of polar groups into the groups. The second is by one incloude ton of poter groups theo the organic radicals in the polysilicones. A series of glues with different modifications were examined for adhesion and thermostability rerent modifications were examined for adnession and thermostability and the constitution of the glues and their performance was noted. Their uses and methods of application were also given. Various si-

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

S/661/61/000/006/073/081 D247/D302

Pakhomov, V. I., Izyumov, B. D. and Panfilova, I. P.

Thermal stability and resistance of silico-organic AUTHORS: TITLE:

pressed materials to arcing

Khimiya i prakticheskoye primeneniye kremneorganicheskikh soxedineniy; trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i SOURCE: prakt. prim. kremneorg. soyed., Len. 1958. Leningrad, Izd-vo AN SSSR, 1961, 316-322

TEXT: A series of silico-organic pressed materials were examined for their stability, mechanical and dielectric properties. Their composition and uses were recorded, and also their appearance. In the discussion, in which B. A. Kiselev (Moscow) took part, particular properties of various resins were mentioned. The greatest cular properties of various results were mentioned. The greatest thermal stability noted was 100 hours at 350 - 4000C and the highest limit before electrical breakdown was 18 kV/mm. There are 8 figures, 1 table and 8 references: 5 Soviet-bloc and 3 non-Soviet Card 1/2

s/191/61/000/011/003/008 2090 B110/B147 15.8140 11.2212 Andrianov, K. A., Pakhomov, V. I., Lapteva, N. Ye. Reactions of hydroxy-methyl-methyl siloxanes with acids and AUTHORS: TITLE: isocyanates Plasticheskiye massy, no. 11, 1961, 17-20 PERIODICAL: TEXT: The stability of the hydroxyl group being in α -position to the Si atom, and its reaction with acids and isocyanates is investigated on the example of bis-(hydroxy-methyl)-tetramethyl disiloxane (A) and poly-(hydroxy-methyl-methyl)-siloxane (B). For the preparation of A according to CH3COOCH2(CH3)2Si-O-Si(CH3)2CH2OOCCH3+2CH3OH $\frac{\text{HCl}}{\text{HOCH}_2(\text{CH}_3)_2 \text{Si-O-Si(CH}_3)_2 \text{CH}_2 \text{OH} + 2 \text{CH}_3 \text{COOCH}_3}, 60 \text{ g of bis-(acetoxy$ methyl)-tetramethyl disiloxane were methanolized by means of 240 ml CH OH with 1-1.2 % HCl. 5 g of anion exchanger AH-2\$ (AN-2F) or AH-18 (AN-18) in the OH form lower the HCl content to 0.05-0.02 %. The yield of Card 1/

28987 S/191/61/000/011/003/008 B110/B147

Reactions of hydroxy-methyl-methyl...

unpurified A is 91 % of the theoretical amount (45.7 g): $n_D^{20} = 1.4355$; $d_A^{25} = 0.7989$; OH content = 16.47 %; Si content = 29.86 %; MW = 210.

Rectification at 5·10⁻¹ mm Hg produced crystalline, pure A (melting point Rectification at 5·10⁻¹ mm Hg produced crystalline, pure A (melting point Nectification at 5·10⁻¹ mm Hg produced a comparatively difficult condensation of the hydroxyl groups of A (Table 2). Only when small amounts of acid are introduced into A, its properties change slowly. Heating of A acid are introduced into A, its properties change slowly. Heating of A for 15 hr at 200°C lowers the OH content from 16.55 to 14.36 %. for 15 hr at 200°C lowers the OH content from 5.26 g of adipic acid (molar Esterification of 6.98 g of A by means of 5.26 g of adipic acid (molar ratio 1:1) proceed: readily at 200°C:

 $_{\lambda}$ HOCh₂(CH₂)₂O₁-O-Si(CH₂)₂CH₂OH + xHOOC(CH₂)₄COOH → 1O(CH₂)₂CH₂OOC(CH₂)₄COO]_xH + (2x - 1)H₂O

The ester number increases quickly during polycondensation, the acid number drops after 15 hr of heating. The polymer with acid number 8.3, ester number 338, and MW 9500 was a viscous, highly sticky brown liquid, soluble in alcohols, ethers, hydrocarbons, ketones, dioxane, tetrahydrofuran, acetic acid, and formic acid. The polyester was treated at 200°C

Card 2/7

26987 S/191/61/000/011/003/008 B110/B147

Reactions of hydroxy-methyl-methyl...

and 10 mm Hg with 0.37 g of A for esterification of the terminal COOH groups. 2.023 g of polyester with 0.0516 g of hexamethylene dissocyanate (C) (0.5 g-mole to 1 COOH group) at 200° C in 10 % acetic acid solution in the N₂ flow produced an elastic, rubber-like polymer:

$$\begin{split} & \text{HO}[\text{CH}_2(\text{CH}_3), \text{Si-O-Si}(\text{CH}_3)_2\text{CH}_2\text{OCO}(\text{CH}_2)_4\text{COO}]_2\text{CH}_2(\text{CH}_3)_2\text{Si-O-Si}(\text{CH}_3)_2\text{CH}_2\text{OC}(\text{CH}_2)_4\text{NCO} \rightarrow \\ & \text{HO}[\text{CH}_2(\text{CH}_3), \text{Si-O-Si}(\text{CH}_3)_2\text{CH}_2\text{OCO}(\text{CH}_3)_4\text{COO}]_2\text{CH}_2(\text{CH}_3)_2\text{Si-O-Si}(\text{CH}_3)_2\text{CH}_2\text{OCO}(\text{CH}_3)_4\text{COO}]_2\text{CH}_2(\text{CH}_3)_2\text{Si-O-Si}(\text{CH}_3)_2\text{CH}_2\text{OCO}(\text{CH}_3)_4\text{COO}]_2\text{CH}_2(\text{CH}_3)_2\text{Si-O-Si}(\text{CH}_3)_2\text{CH}_3\text{OCO}(\text{CH}_3)_4\text{COO}]_2\text{CH}_3(\text{CH}_3)_4\text{COO}(\text{CH}_3)_4\text{COO}(\text{CH}_3)_4\text{CH}_3(\text{C$$

This dissolves in acetic soid and formic acid, and swells in tetrahydrofuran, dioxane, hydrocarbons, and pyridine. 3.06 g of A at 120°C with 2.7 g of C form sticky, elastic polymers well adhering to glass and duralumin in 1.5 % alcoholic solution. 3.4 g of A at 120°C with 2.9 g of p-toluylene diisocyanate form solid polymers in 1 % acetic acid solution

1 xHOCH₂(CH₂)₂Si - O - SI(CH₂)₂CH₂OH + xOCN(CH₂)₂NCO ->
- xHOCH₂(CH₂)₂Si - O - SI(CH₂)₂CH₂Ci - CNH - (CH₂)₂NCO

II. xHOCH₈(CH₃)₃SI · O—SI(CH₄)₂CH₈OH + xOCN $\xrightarrow{CH_3}$ $SCO \longrightarrow$

Card 3/7

2R987 s/191/61/000/011/003/008 B110/B147 Reactions of hydroxy-methyl-methyl... .CH. -- xHOCH₃(CH₃)₂Si -O - Si(CH₃)₃CH₃(XXCNH s I dissolves in aliphatic alcohols and cresol, I and II in acetic acid and formic acid. They swell in pyridine, hydrocarbons, and tetrahydrofuran. 15 g of A were mixed with 50 g of 2 % HCl, stirred at 90°C for 15 hr, and the content of acetic acid was determined. It was neutralized by means of solid NaHCO and determined in %: Si = 20.5; OH = 3.41; CH3COO = 24.18. 20 g of A was stored for 48 hr at 20°C, and viscosity as well as refractive index were determined (Table 2). After heating 5 g of A at 200°C for 15 hr, the OH content drops from 16.95 to 14.36 %. During the effect of 0.4 g of 98 % $\rm H_2SO_4$ on 15 g of A, $\rm \eta_{20}$ and $\rm n_D^{20}$ remained nearly unchanged even after a longer effect. When 10.72 g of A was left standing for 48 hr with 40.98 CH30H acidified with 35 % HCl, the Si and OH content remained practically constant. The same applied when 4.97 g of A was left standing for 48 hr with 0.64 g of distilled water. There are 4 figures, 4 tables, and 3 references: 1 Soviet and 2 non-Soviet. Card 4/7

28987 \$/191/61/000/011/003/008 B110/B147

Reactions of hydroxy-methyl-methyl...

The two references to English-language publications read as follows: Speier, J. Am. Chem. Soc., 74, 1474 (1949); Us Pat. 2527590 (1950); C. A., 45, 2498 (1951).

Table 1. Effect of 2 % HCl and $\rm H_2SO_4$ on bis-(acetoxymethyl)-tetramethyl disiloxane.

Legend: (1) Amount of bis-(acetoxymethyl)-tetramethyl disiloxane, g; (2) acid used; (3) experimental conditions; (4) content, %; (5) molecular weight; (6) acetoxy group cleavage, %; (7) initial bis-(acetoxymethyl)-tetramethyl disiloxane; (8) designation; (9) amount, ml; (10) time. hr; tetramethyl disiloxane; (8) designation; (9) a (14) 2 % HCl. (11) temperature, C; (12) OH groups; (13) 2 % H₂SO₄; (14) 2 % HCl.

Table 2. Effect of heating on bis-(hydroxy-methyl)-tetramethyl disiloxane.

Legend: (1) Temperature, $^{\circ}$ C; (2) time, min; (3) viscosity, η_{20} :m².

W

Card 5/7

OZEROV, R.P.; RANNEV, N.V.; PAKHOMOV, V.I.; REZ, I.S.; ZHDANOV, G.S.

Structure of KIO3 at room temperature. Kristallografiia 7
nc.4:620-622 Jl-Ag '62. (MIRA 15:11)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Potassium iodide crystals)

s/062/62/000/011/011/021 B101/B144

Andrianov, K. A., Pakhomov, V. I., and Lapteva, N. Ye.

Reactions of allyl phenol and trimethyl siloxy allyl benzene AUTHORS: with alkyl alkoxy silanes TITLE:

Otdeleniye khimicheskikh Akademiya nauk SSSR. Izvestiya. nauk, no. 11, 1962, 2039 - 2046 PERIODICAL:

TEXT: In the reaction of o-allyl phenol with alkyl alkoxy silanes in the presence of H2PtCl6-6H2O, the following addition was found to take place: $= SiH + CH_2 = CHCH_2C_6H_4OH \longrightarrow = Si(CH_2)_3 - C_6H_4OH \quad (1), as well as substitution of$ the hydroxyl hydrogen according to: $=SiH + HOC_6H_4CH_2CH=CH_2 \longrightarrow =SiOC_6H_4C_3H_5$ (2). Reaction (2) was confirmed by ether formation from 0-allyl phenol and triethoxy silane in the presence of KOH. The resulting product was identical with that obtained by reaction (2), its IR spectrum, in contrast to the compound obtained by reaction (1), did not show the 3400 - 3600 cm $^{-1}$ band of the $\mathrm{HOC}_6\mathrm{H}_4$ group. To avoid hydrogen substitution, the Card 1/5

S/062/62/000/011/011/021 B101/B144

Reactions of allyl phencl and ...

Reactions of allyl phenol and... S/062/62/000/011/011/021 $\frac{3}{4}$ 0.9442, $\frac{3}{4}$ 0.9442, $\frac{3}{4}$ 0.4954; $\frac{3}{4}$ 0.9509, $\frac{3}{4}$ 1.4954; $\frac{3}{4}$ 0.9509, $\frac{3}{4}$ 1.4698; $\frac{3}{4}$ 0.9506, $\frac{3}{4}$ 1.4698; $\frac{3}{4}$ 0.9506, $\frac{3}{4}$ 1.4700; $\frac{3}{4}$ 1.4700; $\frac{3}{4}$ 1.4700, $\frac{3}{4}$ 1.4700. The IR spectra of these compounds and of the products of their hydrolysis did not show the 1375 cm⁻¹ band characteristic of the C-CH₃ group, but the 1449 cm⁻¹ band corresponding to the -CH₂-CH₂- group. Thus the Si adds to the carbon atom situated at the end of the allyl group. The alcoholysis of these compounds in the presence of KOH or $\frac{3}{4}$ 20.35ic₃46C6H₄OH₃+ (CH₃)₃5ic₃46C6H₄OH₄OH₃+ (CH₃)₃5iOR

(RO)₃Sic₃46C6H₄OSi(CH₃)₃ ROH₄ [(RO)₃Sic₃46C6H₄OH₃]+ (CH₃)₃SiOR

(RO)₂Sic₃46C6H₄OH₄OH₄ ROH. The following compounds were thus obtained:

Reactions of allyl phenol and... S/062/62/000/011/011/021 $D/06/H_4C_3H_6Si(0C_2H_5)CH_3$, yield 79%, b.p. 95 - 97°C/1 - 2 mm Hg, d_4^{20} 1.0359, d_4^{20} 1.5020; $OC_6H_4C_3H_6Si(0C_4H_9)CH_3$, yield 69 - 70%, b.p. 132 - 134°C/9 mm Hg, d_4^{20} 1.0099, d_2^{20} 1.4952; $OC_6H_4C_3H_6Si(0C_4H_9)_2$, b.p. 143 - 145°C/3 - 4 mm Hg, d_4^{20} 1.0044, d_2^{20} 1.4812; $OC_6H_4C_3H_6Si(OC_2H_5)_2$, yield 59%, b.p. 117-121°C/1-2 mm Hg, d_4^{20} 1.0583, d_2^{20} 1.4918; $OC_6H_4C_3H_6SiC_2H_5(OC_2H_5)$, yield 50%, b.p. 110 - 112°C/1 - 2 mm Hg, d_4^{20} 1.0023, d_4^{20} 1.5040; $OC_6H_4C_3H_6SiC_2H_5(OC_4H_9)$, yield 45%, b.p. 148 - 150°C/2 - 3 mm Hg, d_4^{20} 1.0042, d_4^{20} 1.4985; d_4^{20} 1.0043, d_4^{20} 1.0504, d_4^{20} 1.0504, d_4^{20} 1.509. The hydrolysis of some of these cyclic compounds yielded polysiloxanes containing oxyphenyl groups. There are 4 figures and 2 tables. The Englishlanguage reference is: J. L. Speier, R. Zimmerman, J. Webster, J. Amer. Cnem. Soc., 78, 2278 (1956); British patent 769497 (1957).

Reactions of allyl phenol and...

5/062/62/000/011/011/021 B101/B144

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)

SUBMITTED:

March 27, 1962

Card 5/5

PAKHOMOV, V. I.

Structure of molecules of the series (CH₃)₂C(OCH₃)C(CH₃)₂C(OCH₃)C(CH₃)₂C(OCH₃)C(CH₃)₂C(OCH₃)C(CH₃)₂C(OCH₃)C(CH₃)₂CH₂HgSCN, Kristallografia 7 no.3:456-457 Hy-Je '62, (MIRA 16:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Molecules)

PAKHOMOV, V. I., REZ, I. S., LOBANOVA, G. M.,

"X-ray Investigation of $N(CH_3)$ 4 Hg X3."

report presented at the Symposium on Ferroelectricity and Ferromagnetism, Leningrad, 30 May-5 June 1963.

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PAKHOMOV
                                                5/191/63/000/004/007/015
              Zikolenko, V. I., Panfilova, I. P., Pakhonov, V. J
ATRICES:
              Properties of high-frequency (4-9 (KF-9) molding meterial
Plasticheskiye massy, no. 4, 1963, 25 - 26
PERIODICALI
TEXT: The physicomechanical and dielectric properties of the high-frequency
thermosetting KF-9 material were tested. Its dielectric properties are
similar to those of polytetrafluoroethylene. For the initial material, the
following data are given: Q - 2-10 6 ohn-on; surface resistivity
   = 2:10 chm; tam 8 = 0:00626 at 10 cps; dielectric constant 6 = 3:02;
breaking woltage B = 17.05 kv/am; impact strength of = 35.0 kg.om/cm2;
bending strength d = 479 kg/cm<sup>2</sup>; compressive strength d = 356 kg/cm<sup>2</sup>.
After a threefold thermal shock by changing the temperature from +360°C to
-60^{\circ}C, the values changed as follows: q_{\circ} = 1 \cdot 10^{15}; tan \delta = 0.00427;
Card 1/2
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Properties of high-frequency...

S/191/65/000/004/007/015

8-3.2; E = 19.7; S<sub>1</sub> = 31.5; S<sub>2</sub> = 390; S<sub>3</sub> = 476. After 2160 hrs of tropical humidity: $\frac{1}{2} = 2.10^{-4}$; $\frac{1}{2} = 0.0100$; $\frac{1}{2} = 3.25$; $\frac{1}{2} = 15.9$. The dislectric properties of KP-9 changed only slightly after 1500 hrs of ageing at 5000c and subsequent storage for 100 hrs in the moist after 10 hrs at 500°C and 0.7 - 1.25% after 210 hrs. The material can be made for 1000 hrs at temperatures between -60 and -250°C, withstanding cosmed by molding or compression solding (different to ftoroplast-4 (7sflon-4)). There are 4 figures and 3 tables.

Card 2/2
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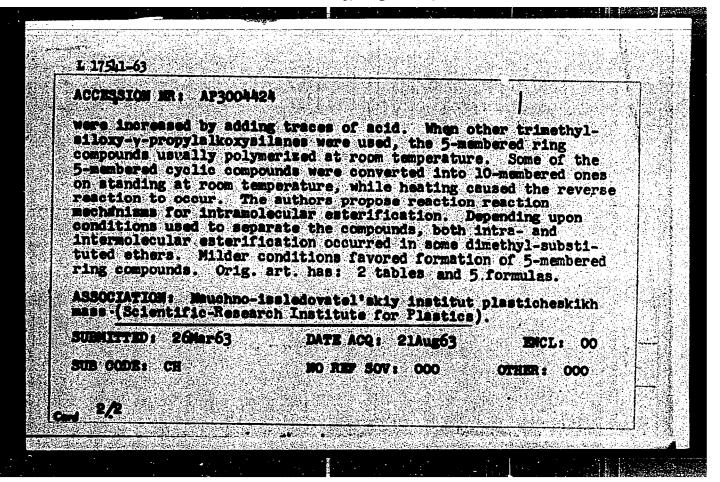
PAKEGMOV, V.I. Structure of the crystals C6H5HgX. Zhur.strukt.khim. 4 no.4:594-601 Jl-Ag '63. 1. Institut elementoorganicheskikh soyedineriy Al SESR. (Mercury erganic compounds) (X-ray crystallography)

PAKHOMOV, V.I.

Crystalline structure of the compound \(\sigma - C_{10} H_7 HgI. \) Kristalografiia 8 no.5:789-790 S-0 '63. (MIRA 16:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

ACCESSION NR	1 AP3004424	s/0020/63/1	51/004/0849/0852	
AVYHORS: AV	Irlanov, K. A. Corr	esponding Member, N. Ye. terification react	AN SSSR); <u>Pakho-</u> lons of 65	
substituted ((Sams -OXADLODATE IX	oxysilane ether (64	
TOPIC TAGS:	esterification, O	rganosilicon compo	und	
ABSTRACT: Sobtained by	ubstituted ethers the reaction:	of y-exypropylalke	xysilanes were	
R_S10CH	CH = CH, + H31(OR)	, - R. 310CH, CH, CH,	CH_S1(OR).	
molecular es When y-trime	thylsiloxypropylt	silane ethers can toom 5- to 10-member ibutoxysilane was hylbutoxysilane and formed. The react	heated under	



ACCESSION NR: AP4042189

S/0190/64/006/007/1275/1280

AUTHOR: Pavlova, S. A., Pakhomov, V. I., Tverdokhlebova, I. I.

TITLE: Cyclolinear polyphenylsiloxanes

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1275-1280

TOPIC TAGS: siloxane, polyphenylsiloxane, benzene, toluene, xylene, dinil, cyclolinear polymer, phenyltrichlorosilane, infrared spectrum, polymer structure

ABSTRACT: Polyphenylsiloxanes obtained by condensation of the hydrolysis products of phenyltrichlorosilane in four solvents (benzene, toluene, xylene and dinil) were investigated by infra-red spectroscopy. All four polyphenylsiloxanes were found to have the same cyclolinear structure predicted by Brown, et al. (J. Amer. Chem. Soc., £2, 6194, 1960). The molecular weight of the polymer was 4.1 x 10⁶. The effect of the reaction medium on the mechanical properties, the degree of polymolecularity and the structural homogeneity of polyphenylsiloxanes was studied in detail. The four test samples were fractionated from 0.5% benzene solution with methanol at 20C. Infrared spectra were then taken for all four polymers, their thermal properties were studied and the molecular weight was determined by light diffusion. The molecular weight distribution curves are plotted. The polymers were found to be rather stable during fractionation. The infrared spectra show that the

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ACCESSION NR: AP4042189

four polymers have almost the same structural elements, with bands at $1000-1100~\rm cm^{-1}$, corresponding to Si-O-Si-and at $1400-1500~\rm cm^{-1}$ corresponding to Si-C₆H₅. The mechanical properties of the polymers were not affected by the solvent. All four polyphenyl siloxanes had a very high glass temperature (T_c =300C). The close T_c values for the polyphenylsiloxanes show that the conditions of preparation do not significantly affect the structure. The reaction conditions also do not significantly affect the polydispersity of polyphenylsiloxanes. The degree of polymolecularity and the average molecular weight of the polyphenylsiloxanes increased, depending on the solvent used, in the order benzene-toluene-xylene-dinil. A mechanism for the formation of these polyphenylsiloxanes is proposed. Orig. art. has: 3 figures, 1 table and 3 structural formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organometallic Compounds, SSSR)

SUBMITTED: 08Aug63

ENCL: 00

SUB CODE: OC

NO REF SOV: 001

OTHER: 001

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ACCESSION NR: AP4042190

8/0190/64/006/007/1281/1285

AUTHOR: Pavlova, S. A., Pakhomov, V. I., Tverdokhlebova, I. I.

TITLE: The structure of polyphenylsiloxane and the properties of its solutions

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1281-1285

TOPIC TAGS: polyphenylsiloxane, benzene, toluene, xylene, dinil, Mark-Houwink equation, polymer fractionation, light scattering, refractive index, polydimethylsiloxane, polyisobutylene, polymer structure, polymer viscosity, cyclolinear polymer, polymer rigidity

ABSTRACT: Viscosimetric and optical studies on polyphenylsiloxanes in dilute and very dilute solutions of benzene, toluene, xylene and dinil showed that the solvent affects only the molecular weight of the polymer. At a molecular weight ranging from 10,000 to 50,000, the viscosity of the polymer in solution is described by the equation $M=1.305 \times 10^{-7} \text{ M}^{-1.29}$, indicating that this polymer consists of short, rod-shaped molecules. From 50,000 to 2,700,000 the Mark-Houwink equation assumes the form $M=1.93 \times 10^{-4} \text{M}^{-0.634}$, i.e., the molecules of the polymer are so long that they assume the form of a coil. For all fractions of polyphenylsiloxane, the molecular weight was measured in benzene by light diffusion at an angle of 90,

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ACCESSION NR: AP4042190

and the specific viscosity was measured in benzene at 20°C. For the first fraction, the asymmetry of light scattering was measured and the true molecular weight was calculated. The characteristic values for the difference between the refractive index of the polymer and the refractive index of the solvent form a straight line, indicating clearly that, according to the theory, they all have the same cyclolinear structure proposed by Brown et al. (J. Amer. Chem. Soc., 82, 6194, 1960). The flexibility of polyphenylsiloxane molecules was also determined and the pertinent tabulated data show that the rigidity of the polyphenylsiloxane molecule is higher than that of the molecules of polydimethylsiloxane and polyisobutylene. The study of polyphenylsiloxane in very dilute solutions showed that polymers with a relatively low molecular weight (40,000) have an abnormal slope of the \$N\$ sp./o-c curve in benzene. Orig. art. has: 5 figures, 1 table, 2 formulas and 1 chemical structure.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organoelemental Compounds, AN SSSR)

SUBMITTED: 08Aug63

ENCL: 00

SUB CODE: OC

NO REF SOV: 002

OTHER: 003

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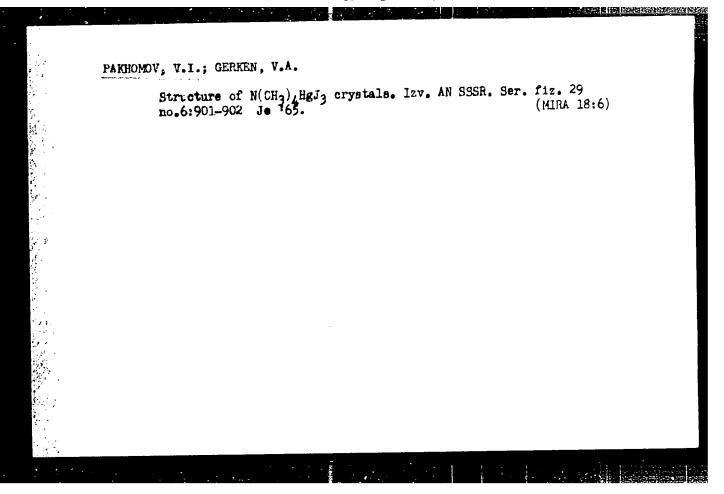
EWT(m)/EPF(c)/EWP(1)/T/EWP(t)/EWP(b) IJP(c) RM/JD SOURCE COIE: UR/0286/65/000/016/0085/0085 ACC MR: AP5025042 AUTHORS: Pakhomov, V. I.; Andrianov, ORG: none TITIE: Method for obtaining silicon-organic compounds containing the chain silicon-divalent organic radical-silicon. Class 39, No. 173954 & SOURCE: Byulleten' isobreteniy i tovarnykh snakov, no. 16, 1965, 85 TOPIC TAGS: organosilism compound, polymerization, polymer, monomer ABSTRACT: This Author Certificate presents a method for obtaining siliconorganic compounds containing the chain silicon-divalent organic radical-silicon, by treating silicon-organic monomers. To simplify the process and to increase the yield of polymer silphenyl monomers containing an alkyl group and more than one alkony group at each silicon atom are used as starting reagents. The disproportionation of the monomers is carried out at or above 2000 in the presence of alkali catalysts, SUB COIE: 07/ SUBM DATE: 13Jun64 .**678.8**L

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

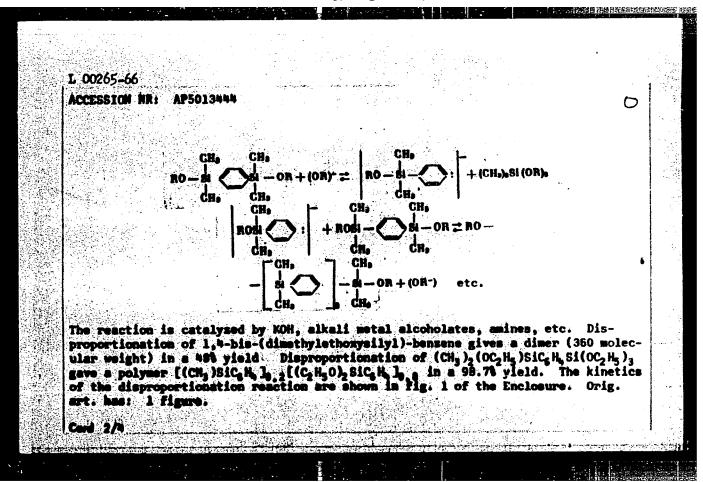
EWG(1)/EWA(k)/FBD/EWT(1)/EPA(s)-2/EWT(m)/EEC(k)-2/EEC(t)/T/EWP(t) EEC(b)=2/EWP(k)/EWP(b)/EWA(m)=2/EWA(h)/EWA(c) Pn=4/Po-4/Pf-4/Pt-10/Peb/Pi-4 ACCESSION NR: AP5008474 Pi-4 LJP(c) WG/JD/JG E/0070/65/010/002/0255/0256 AUTHOR: Filimonov, A. A.; Lomova, L. G.; Suvorov, V. S.; Pakhomov, V. I.; Sonin A. S. TITIE: Second harmonic generation in potassium iodate monocrystals SOURCE: Kristallografiya, v. 10, no. 2, 1965, 255-256 TOPIC TACS: laser, ruby laser, nonlinear optics, harmonic generation, second harmonic, potassium iodate, nonlinear effect, optical harmonic 27 27 ABSTRACT: A second harmonic generation in crystals of potassium iodate illuminated by a ruby laser emission ($\lambda = 6943$ Å) is reported. Maximum generation was in the [102], [120], and [012] directions and was of the same order of magnitude as that observed in ADP crystals in the direction of matching indices. The determination of the direction of matching indices in ${
m KIO_3}$ crystals was difficult because of low crystal symmetry and the difficulty of measuring refraction indexes. The minimal refraction indexes for the DNa line with laser emission propagation in the [100], [010] and [011] directions were 1.7281, 1.7274, and 1.7278, respectively. The KIO3 crystals exhibited high birefringence. It was determined from absorption spectra that the crystals were transparent between 0.4 and 6.2 u. [cs] card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

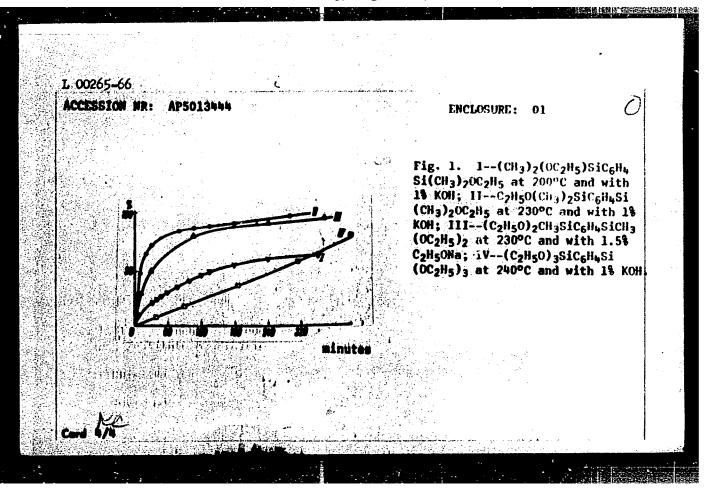
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AUTHOR: An	drianov, K. A. (Academi	cian); Pakhomov, V. I	Gel'perina, V. M.	19
	proportion reactiona hesis of polyphenylenes		is of silicoorganic poly-	-
	경찰하다 하다 나는 사람이 얼마요?	7,445		
Source: An	SSSR. Doklady, v. 162	, no. 1, 1965, 79-81		
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enesilane ÁBSTRACT:	Base catalysed dispropo	rtionation of several	bis-(dimethylethoxysily)	
enesilane ABSTRACT: bensenes is		rtionation of several to find new routes to	bis-(dimethylethoxysily) the synthesis of poly-	
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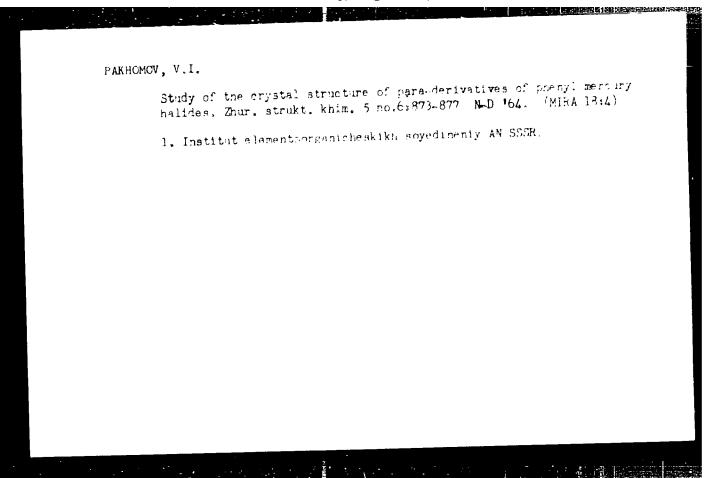
L 2267-66 EWT(m)/EPF(c)/EWP(j) UR/0191/65/000/009/0020/0022 AP5022223 Andrianov, K. A.; Pakhomov, V. I.; AUTHOR: TITLE: Reactions of chloromethylsilanes and silomanes with dihydric phenols SOURCE: Plasticheskiye massy, no. 9, 1965, 20-22 TOPIC TAGS: organosilicon compound, resorcinol, hydroquinone, condensation reaction, silans esterification ABSTRACT: The object of the work was to synthesize monomeric hydroxyphenoxymethylsiloxanes and monomeric products with completely esterified phenol hydroxyls by the reaction of chloromethylalkoxysilanes and siloxanes with monoand diosodium derivatives of dihydric phenols. As a result of the reaction, the chlorine in the methyl radical was replaced by the residue of the dihydric phenol containing a free or esterified hydroxyl group. Reactions of bis(chloromethyl) tetramethyldisiloxane and chloromethyldimethylbutoxysilane with resorcinol, hydroquinone, or dihydroxydiphenylpropane (diane) were carried out in absolute butanol under mitrogen. The conditions and results of these reactions are tabulated. The eilanole obtained were subjected to condensation reactions, and 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000

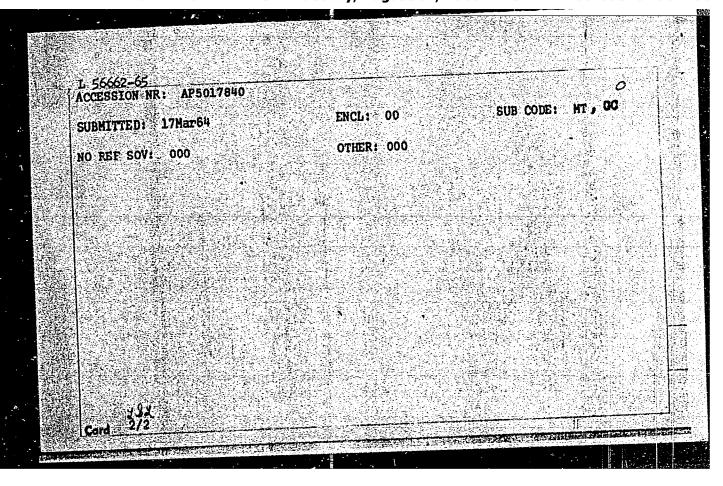
CIA-RDP86-00513R001238

CUSSION NRI AP5021601	F(c)/EMP(v)/EMP(j)/T WW/EM リバスター UR/0286/55/000/013/0071/0071 リルトショー ロー・
TTLE: A method for obta	ו Bashenova, T. S. (בי בי ב
OURCE: Byulleten! isobre	steniy 1 tovarnykh znakov, no. 13, 1965, 71
	c chemistry, monomer, thermal stability, adhesion,
BSTRACT: This Author Cer	tificate presents a method for obtaining epoxy organo-
o obtain epoxy organosili o glass and metal, alkylh ontaining alcoxy group ar	exchange between monomers and oligomers with glycidol. con compounds with high thermal stability and adhesion by ydridepolysiloxanes or oganosilicon monomers and oligomers e used as basic materials. Ester exchange is conducted e catalysts.
o obtain epoxy organosili o glass and metal, alkylh	ydridepolysiloxanes or oganosilicon monomers and oligomers o used as basic materials. Potes



L 56662-65 EWT(m)/EPP(c)/EPR/EWP(j)/T Pc-4/Pr-4/Pa-4 ACCESSION HRI APSO17840 UR/0286/65/000/011/0078/0078 678.84 Andrianov, K. A.; Pakhomov, V. I.; Lapteva, N. Ye. AUTHOR: B A method for producing organosilicon resins. Class 39, No. 171565 TITLE: SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 78 TOPIC TACS: organosilicon resin, hydrolysis, catalysis ABSTRACT: This Author's Certificate introduces a method for producing organosilicon resins by cohydrolysis of methyltrimethoxysilane and phenyltrimethoxysilane and then hardening them in the presence of a hardening catalyst. Resins with high thermal stability and improved mechanical characteristics are produced by carrying out the hydrolysis jointly with oxyphenylpropylsilane and using aldehydes or aldehyde derivatives as the hardening catalyst. ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute of Plastic) **Card** 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



AUTHOR: Pakhomov, V.I.; Gerken, V.A.

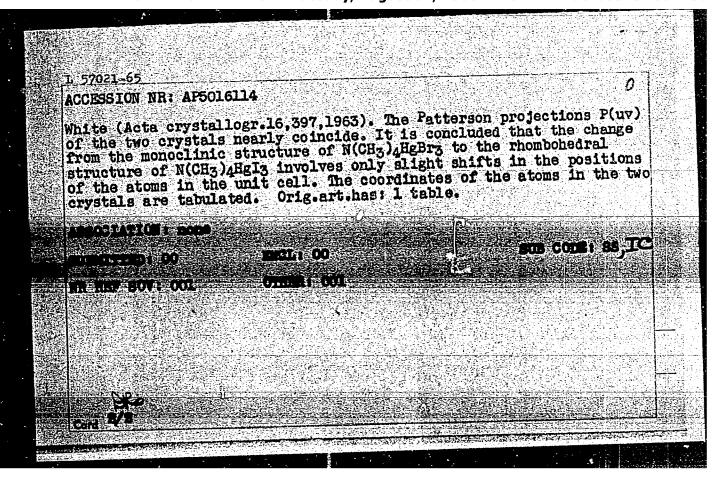
TITLE: On the structure of N(CH5)AHRI3 crystals (preliminary communication) / Report, 4th All-Union Conference on Ferroelectricity held in Rostov-on-the-Don 12-18 Sept 1964/

SOURCE: AN SSSR. Izvestiya. Ser.fizicheskaya,v.29, no.6, 1965, 901-902

TOPIC TAGS: crystal structure. crystal symmetry, ferroelectric crystal nitrogen vocompound, carbon-compound, hydrogen compound, mercury compound, dodine compound, bromine compound

ABSTRACT: The authors have determined the crystal structure of N(CH3)AHRI3. The space group is PD2m, the number of formula units in the unit cell is four, and the lattice constants are a = 9.45 Å, b = 16.44 Å, and c = 8.57 Å. The structure is compared with that of N(CE2)AHRBT3 previously determined by the authors (Program of the 4th All Union Conference on Crystal Chemistry, Kishinev, 1961) and by J.G.

Card 1/8



MAKHNENKO, L.A.; PAKHOMOV, V.I.; STEPANOV, K.N.

High-frequency focusing in linear accelerators. Zhur. tekh. fiz.
(MIRA 18:5)

75 no.4:618-622 Ap 165.

PAVLOVA, S.A.; PAKHOMOV, V.I.; TVERDOKHLEBOVA, I.I.

Cyclolinear polyphenylsiloxane. Vysokom. soed. 6 no.7:1275-1280 Jl '64 (MIRA 18:2)

Properties of solutions and the structure of polyphenylsiloxane. Ibid.:1281-1285

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

L Q5038-67 EWF(m)/EWP(1) LJP(c) WW/RM

AP6031157 (AN) SOURCE CODE: UR/0190/66/008/009/1618/1622

AUTHOR: Andrianov, K. A.; Pakhomov, V. I.; Gel'perina, V. M.; Mukhina, D. N.

ORG: Scientific Research Institute for Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass)

TITLE: Catalytic polycondensation of 1, 4-bis(dimethylhydroxysilyl)phenylene with diphenyldihydroxysilane and octamethylcyclotetrasiloxane

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 9, 1966, 1618-1622

TOPIC TAGS: polycondensation, catalytic polycondensation, copolymer, linear chain copolymer

ABSTRACT: A study was made of the polycondensation reaction of 1,4-bis(dimethyl-hydroxysilyl)phenylene with octamethylcyclotetrasilorane and diphenyldinydroxysilane in the presence of alkali catalysts. These interactions were found to produce the following linear chain copolymers:

1. $H\left(\begin{array}{c} CH_{5} \\ O-Si-CH_{5} \\ CH_{5} \end{array}\right) + O\left(\begin{array}{c} CH_{5} \\ Si-O \\ CH_{5} \end{array}\right) H$

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UDC: 541, 64+678, 84

ACC NR: AP6031157

1, 540,5-6

$$\mathbf{Z}. \quad \mathbf{HO} \begin{pmatrix} \mathbf{CH_a} & \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{CH_a} \end{pmatrix} = \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{S_1} & \mathbf{O} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{CH_a} \\ \mathbf{CH_a} \end{pmatrix}_{\mathbf{Z}} + \begin{pmatrix} \mathbf{CH_a} \\ \mathbf{CH_a$$

The destruction of n-bis-(dimethylhydroxysilyl)phenylene was found to proceed much faster above 490C. Copolymers of 1,4-bis(dimethylhydroxysilyl)phenylene with octamethylcyclotetrasiloxane were found to form as a result of polycondensation as well as polymerization with opening of octamethylcyclotetrasiloxane. The polycondensation of compounds was studied at various ratios. Orig. art. has: 2 tables and 5 figures. [Based on authors' abstract]

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 001/ OTH REF: 005/

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

UTHOR: Pakhonov, V. I.	54 R+1
RG: none	,
ITLE: Radiation of low frequency waves by ions and electrons of a etoactive plasma	nonisothermal mag-
OURCE: AN UkrSSR. Vysokocnastotnyye svoystva plazmy (High frequence lasma). Kiev, Naukovo dumka, 1965, 189-205	cy properties of
OPIC TAGS: plasma wave propagation, Cerenkov radiation, magnetoaccetoactive plasma	oustic effect, mag-
BSTRACT: The intensities of Alfven waves and fast and slow magneto iated by ions and electrons is calculated. The analysis is carried everal cases. It is shown that in low pressure plasma, where the	d out in defait for.
reatly exceeds the velocity of sound $v_{m{g}}^{}$, the index of refraction c	f the slow wave is
such greater than that of the other two waves. This leads to a greater adiated intensity of the slow wave harmonics of $(v_A/v_B)^{2B+1}$, where	at increase in TDC
	waves by the elec-

elow ion cyclo	thermal plasma is a conside bsorption efficiency of pla tron frequency is also comp are given. Orig. art. has	sma for the spectral range	• •
UB CODE: 20/	SUBM DATE: 19Nov65/	ORIG REF: 007	
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6 8600 (3201, 1099, 1162) also 1144, 1063, 1147 . 5110

86813 s/185/60/005/001/013/018 A151/A029

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Tkalich, V.S.; Pakhomov, V.I.

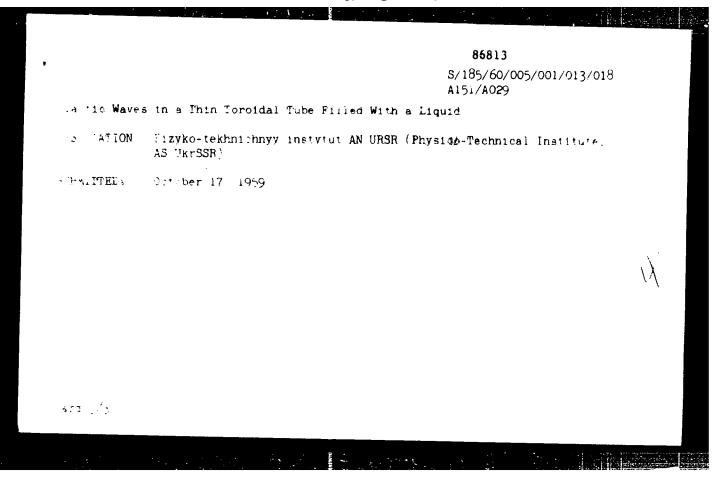
Elastic Waves in a Thin Toroidal Tube Filled With a Liquid ~~_ CAS 8

FIODICAL: Ukrayins'kyy Fizychnyy Zhurnal, 1960, Vol. 5, No. 1, pp. 115 - 117

The generation of homogeneous acoustic fields in a liquid is of great importance for certain technical purposes (Ref. 1). A homogeneous acoustic field (according to period) can be generated in a resonator which is shaped like a toroidal tube filled with a liquid. In such a system, a wave can be established which runs along the tube's axis (Ref. 2). Mathematically and by considaring the potential of the liquid's velocity, the deformation vector in a hard body, the velocity of the sound in the liquid (c), the longitudinal (ce) and transverse (ct) sound velocities in the liquid, the normal tension component on ne inner surface of the tube, as well as a number of other factors, the authors erive a formula by which the phase speed can be calculated;

 $\frac{(3-4a)+(1-a)(1+d)\pm\sqrt{[b(3-4a)+(1-a)(d-1)]^2+d(1-a)}}{\frac{d}{2}+2b(1-a)}$ (8)

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83597 s/056/60/038/005/030/050 BO06/B070

Stepanov, K. N., Pakhomov, V. Negnetic Breasstrahlung of a Restricted Plasma

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, AUTHORS:

TITLE:

Vol. 38, No. 5, pp. 1564 - 1568

TEXT: The Present paper is a contribution to the topic of controlled Thermonuclear reactions (energy equilibrium in the thermonuclear reactions (energy equilibrium in the thermonuclear reactions of a please) who suthous make a theoretical tor, microwave diagnostics of a plasma). The authors make a theoretical atudy of the magnetic brancatrablung emitted by a restricted high-tom. PERIODICAL: tor, microwave diagnostics of a plasma). The authors make a theoretical study of the magnetic breasstrahlung emitted by a restricted high-temporature plasma placed in a strong magnetic field for this nurnece. study of the magnetic premastrantung emitted by a restricted high-tem-perature plasma placed in a strong magnetic field. For this purpose, it perature plasma placed in a strong magnetic liefd. For this purpose, it is assumed that the magnetic pressure PH is much higher than the presure is assumed that the magnetic pressure PH. Bure pof the electron gas. PH > pe + pi (pi - ion gas pressure) is a necessary condition for the formation of equilibrium plasma configuranecessary condition for the formation of equilibrium plasma configuration. The electron tions, which guarantees the stability of the configuration. The electron the stability of the configuration. plasma considered moves in the H field in a spiral along the lines of

force, emitting electromagnetic waves of the frequency (1):

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--ry small so that $\Delta H/H \lesssim \beta$, and the

<u>cday. August 01, 2000</u>

CIA-RDP86-00513R001

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Magnetic Bremsstrahlung of a Restricted Plasma S/056/60/038/005/030/050 B006/B070

field may be assumed to be homogeneous. Under these assumptions, the propagation of waves with $\omega \sim s\omega_H$ (which are strongly absorbed in the high-temperature plasma - cyclotron absorption) is studied, that is to say, the tensor components of the dielectric constant (\mathcal{E}_{ij}) are determined. Then, expressions for the attenuation factor are derived for two special cases. The emissivity of the plasma is investigated, and some expressions are obtained for the total and individual intensities of radiation. The problem of the intensity of thermal radiation in the region of resonance frequencies is discussed in the last section of the paper. An investigation on the same lines was earlier made by V. L. Ginzburg and V. V. Zheleznyakov. A. I. Akhiyezer, M. A. Leontovich, and Ya. B. Paynberg are thanked for discussions. B. A. Trubnikov is mentioned. There are 10 references: 9 Soviet and 1 Australian.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Institute of Physics and Technology of the Academy of Sciences Ukrainskaya SSR)

SUBMITTED:

December 9, 1959

Card 3/3

9,2572 10,2000 262311

AUTHORS:

28770 S/057/61/031/010/003/015 B111/B112

Pakhomov, V. I., aleksin, V. F., and Stepanov, K. N.

TITLE: Radiation of an electron moving on helical orbits in a magnetically active plasma. I.

rERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 51, no. 10, 1961, 1170 - 1184

TEXT: The determination of the radiation intensity of an electron moving in a magnetic field is significant for thermonuclear reactions, radiophysical and astrophysical problems. Several authors have worked in this field: A. G. Sitenko, A. A. Kolomenskiy (Ref. 1: ZhETF, 30, p11, 19p0), A. A. Kolomenskiy (Ref. 2: DAN SSSR, 106, 982, 1956), V. Ya: Eydman (Ref. 5: ZhETF, 34, 131, 1958), V. L. Ginzburg, V. V. Zheleznyukov (Ref. 7: lzv. vuzov, Ridiofizika, 1, no. 2, 59, 1959), and B. A. Trutalezt, A. Te. Bazhanova (Ref. 8: Sb. "Fizika plazmy i problema upravlyayemykh termoyadernykh reaktsiy" - "Flasma physics and the problem of controlled thermonuclear reactions", izd. AN SSSR, v. 3, p. 121, 1958). This art old deals with the determination of the energy loss of a non-relativistic electron moving on a helical orbit in plasma. The mean thermal velocity

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28770 3/057/61/031/010/0 3/015 B111/B112

Radiation of an electron moving on ...

of the electron is much smaller than the velocity of light. The inerg absorption due to thermal motion is taken into account. Proceeding in the Maxwell equations and after carrying out a Fourier transformation $\vec{E}(\vec{r},t) = \int \vec{E}(\vec{k},\omega)e^{i\vec{k}\vec{r}-i\omega t} d\vec{k}d\omega$ for an anisotropic plasma disperse; is space and time, the authors derive general formulas for \vec{E} and \vec{R} in space as coordinates, which are used to calculate the intensity of the magnetic bremsstrahlung of the electron. The following relation holds for the frequency of the s-th harmonic ω_s : $\omega_s = s\omega_H + k_\mu v_\rho$, where ; k_{\parallel} and v_{\parallel} are the projections of k and \vec{v} onto the direction of the external field. The summand k, v, takes the Doppler shift of tofrequency into account. The radiation intensity in the solid angle it in $E_{\chi_s} \stackrel{(E_{\chi_s} H_{\chi_s})}{=} = E_{\chi_s} H_{\chi_s}$, \mathbb{R}^2 dO, where E_{χ_s} , E_{χ_s} , E_{χ_s} , E_{χ_s} given by $\omega(x,y,t)$ d0 = are the Fourier components of Ex. Ex. Hy, and Hy, respectively. The magnetic brasstrahlung of non-relativistic particles in the finemental frequency in dilute plasma is studied. Since the refractive iclax Card 2/6-

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Radiation of an electron moving on ... B111/B112

in this case is close to unity, the general formulas become simpler. The solution of the dispersion equation shows that the attenuation factor of the ordinary wave is considerably lower than that of the extraordinary one. Formulas for E₂, E₂, H₂, and H₂, which describe outgoing and incoming waves, are given. The following relation is derived for the radiation intensity of the extraordinary wave in the first harmonic:

$$w_2 = \frac{e^2 \omega_H^2 v_1^2}{8\pi c^3} (1 + \cos^2 \chi) e^{-2\sqrt[2]{2}R}, \text{ where}$$

$$\varkappa_2 = \frac{1}{4} \sqrt{\frac{\pi}{2}} \frac{Q^2 \left(1 + \cos^2 \chi\right)}{\omega_H \beta \sigma_L |\cos \chi|} \cdot \exp\left(-\frac{v_L^2}{2v_{\pi}^2}\right), \beta = v_T/c.$$
 The radiation in

higher harmonics for dilute plasmas is calculated as well. The condition $s / s n_j \ll 1$ (s - number of harmonics; n_j - refractive index for the ordinary wave (j-1) and for the extraordinary wave (j-2)) must be satisfied here. For the radiation intensity of the s-th harmonic in the unit solid angle one obtains

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Radiation of an electron moving on ...

$$w_{s,j}(\chi) = \frac{s^k u_s^k}{2\pi a} \beta_{\perp}^{ks} U_{s,j}(\theta) e^{-kx_s j R}, \qquad (4,7)$$

me where

$$U_{af}(\theta) = \frac{e^{3} \sin^{2}\theta \left(\sin \beta \sin^{2}\theta \right)^{2s-2} \cos^{2}\chi^{\Phi_{af}}(\theta)}{2^{2s} \left(e^{1} \right)^{3} \cos^{2}\theta \left[\frac{d \cos \chi}{d\theta} \left[\left[n_{j}^{4} \sin^{4}\theta \left(e_{3} - e_{1} \right)^{3} + 4e_{3}e_{3}^{2} \left(e_{3} - n_{j}^{4} \sin^{2}\theta \right) \right] \right]}$$

$$\Phi_{af}(\theta) = \left(-n_{j}^{2} \sin^{2}\theta \frac{dn_{f}}{d\theta} + e_{3}n_{j} \cos^{2}\theta + e_{3} \sin^{2}\theta \frac{dn_{f}}{d\theta} \right) \times \left(n_{j}^{2} - e_{1} - e_{2} \right)^{3} e_{3} \cos^{2}\theta + n_{f} \left[e_{3}n_{j}^{4} \cos^{2}\theta + \left(e_{1} + e_{3} \right) \left(n_{j}^{2} \sin^{2}\theta - e_{3} \right) \right]^{3},$$

$$U(\theta) = \frac{dn_{f}}{d\theta} = \frac{uv \sin^{2}\theta \cos^{2}\theta + \left(e_{1} + e_{3} \right) \left(n_{j}^{2} \sin^{2}\theta - e_{3} \right) \right]^{3},$$

$$U(\theta) = \frac{dn_{f}}{d\theta} = \frac{uv \sin^{2}\theta \cos^{2}\theta + \left(e_{1} + e_{3} \right) \left(n_{j}^{2} \sin^{2}\theta - e_{3} \right) \left(e_{3} + e_{3}$$

Although for a low density $n_j \approx 1$, the angular distribution of the radiation intensity of a single electron in the first harmonics differs considerably from that into the vacuum. The emissivity and absorptivity of a plasma for frequencies near $s \omega_H$ are given by

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Radiation of an electron moving on ... S/057/61/031/010/003/015

 $\eta_{j}(\mathbf{u}) = \frac{n_{h}e^{2\omega_{j}}}{2\pi\sqrt{2\pi} \operatorname{cajcos} \theta} \beta^{2j-1} 2^{j} s! U_{sj}(\theta) e^{\frac{-\omega_{j}^{2}}{2}}, \qquad z_{s} = \frac{\omega - z\omega_{j}}{\sqrt{2} \omega_{j}^{2} n_{j} \cos \theta}. \tag{4.16}$

 $\alpha_j(\omega_s) = 2 \varkappa_{sj}$ (absorption), where $\varkappa_j = k_{rj}^*(k_{Lj})\cos\chi$ and \varkappa_{sj} are the corresponding Fourier components. A. I. Akhiyezer is thanked for dvice. S. M. Rytov (Ref. 13: Teoriya elektricheskikh fluktuatsiy i teplovogo izlucheniya - Theory of electric fluctuations and thermal radiation, 1zd. AN SSR, M., 1953) is mentioned. There are 1 figure and 13 references: 12 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: Ref. 4: R. q. Twiss, J. A. Roberts, Aust. J. Phys., II, no. 3, 424, 1958.

Absociation: Fiziko-tekhnicheskiy institut AN USSR, Khar'kov (Physico-technical Institute, AS UkrSSR, Khar'kov)

SUBMITT D: January 31, 1961

Card 5/6