| "APPROVED | FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R0012 |
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| New Methods 1 | or the Synthesis of Organosiloxanes SOV/20-125-4-35/74 |
| | and leads to higher yields. A further advantage of this method is that it is possible to use also arylsilanes. This is impossible in the case of H_2SO_4 because of the disarylating |
| | effect of this acid (Ref 15). It is easy to control the course of the reactions (1) and (4) according to the amount of hydro- gen separated. Its rate can be easily controlled by the amount of the catalyst and the temperature of the medium. The mention- ed reactions take place with solvents (benzene, toluene, petro- leum ether etc) and without solvents (Ref 16). There are 1 table and 16 references, 3 of which are Soviet. |
| ASSOCIATION: | Institut khimii silikatov Akademii nauk SSSR (Institute of Silicate Chemistry of the Academy of Sciences, USSR) |
| PRESENTED: | December 7, 1958, by A. N. Nesmeyanov, Academician |
| SUBMITTED: | November 4, 1958 |
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Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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S/062/60/000/009/000/000 B023/B064

15.2220

AUTHORS: Orlov, N. F., Dolgov, B. N., and Voronkov, M. G.

TITLE: Tris(triorganosilyl)borate

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 9, pp. 1607-1609

TEXT: In their development of new methods of synthesizing silicon elemental organic compounds, the authors aimed at completing the previous methods of producing triorganosilyl esters of boric acid - tris(triorganosilyl)borate by new methods. Three new methods were developed. They distinguish themselves from the older ones by high yields (80-95%). The first two are based on the reactions of triorganosilanoles with boric anhydride or boric

acid:

 $3R_3SIOH + B(OH)_3 \longrightarrow (R_3SIO)_3B + 3H_2O$ (1)

 $\epsilon_{R_3}SiOH + B_2O_3 \longrightarrow 2(R_3SiO)_3B + 3H_2O$ (2)

The third method of synthesis is based on the interaction between triorganosilanes and boric acid in the presence of colloidal nickel:

Card 1/2

87122

Tris(triorganosilyl)torate

S/062/60/000/009/009/009/021 B023/B064

 $3R_3SiH + B(OH)_3 \longrightarrow (R_3SiO)_3B + 3H_2$ (3).The reactions (1) and (2) are based on an uninterrupted azectropic distilling off of water from the mixture of triorganceilanoles with born acid or with boric anhydride, containing an inert solvent (benzene) Tris(triorganosilyl)borate was produced according to scheme (3) by heating mixtures of triorganosilane and boric acid in the presence of colloidal nickel, forming in the interaction of nickel chloride with triorganosilane. 6 tris(triorganosilyl)borates were obtained by the three methods of synthesis. 4 of the compounds have hitherto been unknown.

ASSOCIATION: Institut khimii silikatov Akademii nauk SSSR (Institute of Silicate Chemistry of the Academy of Sciences USSR)

There are 1 table and 21 references: 8 Soviet, 6 US, 3 British, 1 German,

SUBMITTED: May 4, 1959

Card 2/2

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| 5.3700B | | S/079/60/030/007/010/ B001/B063 | 020 |
| AUTHORS: | Qrlov, N. F., Voronkov, M. | <u>C.</u> | |
| TITLE: | Tris(triorganosilyl)phospha | ates | |
| PERIODICAL: | Zhurnal obshchey khimii, 19 | 960, Vol. 30, No. 7, pp. 2223-2 | 229 |
| triorganosils yield of 50% according to 12R_SiOH + P | anes. It was found that these by a reaction of phosphoric the following scheme: $10_{10} \rightarrow 4(R_3Si0)_3P0 + 6H_20$ (| nols, hexaorganodisiloxanes, or e phosphates are formed with a anhydride with triorganosilano 1). (R ₃ SiO) ₃ PO (2), is to be assumed | ls K |
| because of th molecular com | ne comparatively high tendend adensation with water separa | cy of triorganosilanols to inter tion, which is accompanied by ith P_AO_{10} acting as a catalyst | |
| (Ref. 18). Th | e mechanism of this reaction | n is illustrated by Scheme (3). | |
| Card 1/3 | | | |
| | | | |
| | | | |

Tris(triorganosilyl)phosphates

82296 S/079/60/030/007/010/020 B001/B063

Another synthesis of tris(triorganosilyl)phosphates (yield of 90%), worked out by the authors, is based on a reaction of triorganosilanols with orthophosphoric acid: $3R_3SiOH + H_3PO_4 \longrightarrow (R_3SiO)_3PO + 3H_2O(4)$ in which the water must be distilled off (Ref. 22). A mechanism of this reaction is suggested in Scheme (5). An attempt to synthesize tris(triethylsilyl) phosphate according to Scheme (7) was unsuccessful, whereas orthophosphoric acid could be reacted with hexaalkyl disiloxanes according to X Scheme (8). The mechanism of this reaction is shown in Scheme (9). A new interesting synthesis of tris(trialkylsilyl)phosphates with colloidal nickel acting as a catalyst is shown in reaction (10) in which a side reaction occurs, so that a yield of only 60% is obtained. All tris(triorganosilyl) phosphates obtained are only stable in dry air, whereas moist air splits the SiOP bond. The synthesized products are tabulated. A mechanism of the catalytic action of colloidal nickel is also suggested. There are 1 table and 26 references: 13 Soviet, 7 US, 1 Italian, 3 German, and 2 British.

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

Card 3/3

CIA-RDP86-00513R001238

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

5/661/61/000/006/026/081 D205/D302 Orlov, N. F., Dolgov, B. N. and Voronkov, M. G. . • Synthesis of triorganosyloxy-derivatives of boron, tita-Dyntnesis of Urturganusyluxy-usilvaules of Uuron, arun-nium, phosphorous and vanadium, from triorgano-BilanolB and herealkyl disiloranes. Reaction of herealkyl disi nium, unosphorous and vanadium, from offorsano-strunter and hexaalkyl disiloxanes. Reaction of hexaalkyl disi-AUTHORS: and nexadiny algunanes. Reaction of nexa loxanes with aluminum and titanium halides Khimiya i prakticheskoye primeneniye kremneorganiches-Knimiya i prakticheskoye primeneniye kremneorganiches-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, 123-126 TITLE: SOURCE: TEXT: The field of elemental-silico-organic compounds is of prac-tical interest because of the possibility of synthesis of compounds "EXT: The fleid of elemental-silico-organic compounds is of prac-tical interest because of the possibility of synthesis of compounds which are similar to inorganic compounds in their thermal stability while being soluble in organic solvents. The syntheses proposed which are similar to inorganic compounds in their thermal stabilit while being soluble in organic solvents. The syntheses proposed give better yields than those previously described in literature. As to the application of the synthesized compounds, the silico-Ł Card 1/2Card Wodnesday, June 21, 2000 CIA-RDP86-00513R0

CIA-RDP86-00513R00123{

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CI

SOV/6034 ORLOV, N.F PHASE I BOOK EXPLOITATION Konferentsiya po khimii i primeneniyu fosfororganicheskikh soyedineniy. 20. Khimiya i primeneniye fosfororganicheskikh soyedineniy; trudy (Chemistry and Use of Organophosphorus Compounds; Conference Transactions) Moscow, Izd-vo AN SSSR, 1962. 630 p. Errata slip inserted. 2800 copies printed. Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Resp. Ed.: A. Ye. Arbuzov, Academician; Ed. of Publishing House: L. S. PURPOSE: This collection of conference transactions is intended for chemists, process engineers, physiologists, pharmacists, physicians, veterinarians, COVERAGE: The transactions include the full texts of most of the scientific papers presented at the Second Conference on the Chemistry and Use of - SECTION Card 1/14 annic Research Institute of Plastics, ... for the Industrial Use of Organophosphorus -ard 2/14 APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R0



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA

S/051/62/012/002/016/020 E202/E192

Byurganovskaya, G.V., and Orlov. N.F. AUTHORS : Formation of colour centres in quartz and sodium TITLE: silicate glasses under the action of gamma radiation PERIODICAL: Optika i spektroskopiya, v.12, no.2, 1962, 278-284 The relations between the absorption bands of quartz TEXT: glasses and sodium silicate glasses, and the amount of gamma irradiation, were studied together with the effect of traces of cerium, antimony, arsenic, manganese, iron and lead on the properties of these bands. A large number of industrial and experimental glasses were used in the studies of colour centres. The glasses were melted preferably in an oxy-fuel burner. The irradiation was started at ambient temperature. Co60, at 9 x 10^3 roentgen/hour was used as a gamma source. The spectral absorption of the glasses was measured on a (φ -4 (SF-4) spectrophotometer and expressed as optical density. Quartz glasses showed three characteristic spectral absorption curves. The first, exhibited by glasses melted in reducing conditions or containing large admixtures of elements of Group I and III, had three groups of Card 1/2

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Formation of colour centres in ...

s/051/62/012/002/016/020 E202/E192

strong bands with centroids at 540, 300 and 200-210 mµ. The second, represented by optical quality quartz glasses, had a weak absorption band with a maximum in the visible spectrum, discernible only after a large dose of irradiation (1 x 10^7 -1 x 10 3 roentgen). The third, characteristic of high purity quartz glasses, had only one shortwave UV absorption band with a maximum at 200-210 mp. The formation of colour centres for all quartz glasses was the same, i.e. requiring doses within the ranges of $(4-8) \times 10^4$ and $(2-4) \times 10^6$ roentgen. The silica glasses studied were based on $Na_20.4SiO_2$ and $Na_20.3SiO_2$, with the additives of oxides of the above listed elements within 0.1-0.2% w/w. The rate of formation and quantity of colour centres in these glasses were found to be influenced by the additives. All colour centres due to irradiation were of one type only. The anomalies in the relations between the optical absorption and the irradiating dose in glasses containing FegO3 were not fully explained, but were thought to be due to the traces of contaminants or due to the conditions of melting. SUBMITTED: January 21, 1961 There are 8 figures. Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA

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13921 5/079/62/032/002/008/011 D204/D3035.2700 Orlov, N.F. and Voronkov, M.G. AUTHORS: Silico-organic esters of methyl phosphinic acid (MPA) TITLE: PERIODICAL: Zhurnal obshchey khimi1, v.32, no. 2, 1962, 608-612 TEXT: This is a description of the methods of synthesis of the hither's unknown bis (triorganosilyl) methyl phosphinates, based on interaction of $CH_3P(0)(OH)_2$ with: (1) Triorganosilanols $CH_3P(0) \int OSiEt_3 \int c_2$ was prepared in 68% yield from Et_SiOH (2 moles) and MPA (1 mole), by heating for 2 hrs, removing continuously the water formed. (2) Triorganosilanes $CH_{\tau}P(0)$ $\int OSiEt_{2}Me \left[\frac{1}{2} \right]_{2}, CH_{3}P(0) \left[OSiEt_{3} \right]_{2}, CH_{3}P(0) \int OSiMe(\underline{n} \cdot Pr)_{2} \left[\frac{1}{2} \right]_{2}, CH_{3}P(0)$ <u>کې ا</u> $\int OSiMe(Ph)_2 J_2$ and $CH_3P(0) \int OSiEt(Ph)_2 J_2$ were synthesized from the corresponding trisubstituted silanes and MPA in the molar ratio of 2 4 1, in presence of colloidal Ni, in 70-90% yields, by heating for -- 3 hr at 130°C. (3) Triorganoalkoxysilanes: $CH_3P(0)\int OS: Et_3 \int_2 and CH_3P(0)$ Card 1/3

CIA-RDP86-00513R001238 "APPROVED FOR RELEASE: Wednesday, June 21, 2000 33923 s/079/62/032/002/008/011 D204/D303 Silicomorganic esters of $\left[OSt(Ph)_3\right]_2$ were obtained from Et₃SiONe and (Ph)₃SiOEt taken in the molar ratio of silane MPA equal to 2.4.1 and 2 ? respectively, ir 60 and 70% yields. The reaction of MPA and tetraethy! d.siloxane (1) ratio $\begin{pmatrix} \mathbf{E}^{\dagger} & \mathbf{E}^{\dagger} & \mathbf{C}^{\dagger}\mathbf{H}_{3} \\ \mathbf{F}^{\dagger}\mathbf{S}_{2} = \mathbf{O} & \mathbf{S} = \mathbf{O} & \mathbf{P} = \mathbf{O} \\ \mathbf{E}^{\dagger} & \mathbf{E}^{\dagger} & \mathbf{O} & \mathbf{I}^{\dagger} \\ \end{bmatrix},$ was catalyzed by colloidal N₁ and yielded was obtained from an equimole o $\begin{pmatrix} \frac{H}{10} & \frac{2H}{13} \\ -0 - P - 0 & 51 \\ H & 0 \\ 0 & CH_3 \end{pmatrix}$ whilst another polymer lar mixture of MPA and dimethyl diethoxysilane. All the phosph nates will the exception of crystalline $CH_3P(O) \begin{bmatrix} OSi(Ph)_3 \end{bmatrix}_{2^3}$ were colorless, highboiling liquids, readily hydrolyzed by water. The polymers were pair yellow oils. Experimental details are given and physical constants of $C_ard 2/3$



s/079/62/032/002/009/011 D204/D303 Orlov, N.F., Bogatkin, R.A., Sergeyeva, Z.I., and Voronkov, AUTHORS : M.G. Interaction of triorganosilanes with carboxylic acids in the presence of colloidal nickel TITLE: Zhurnal obshchey khimii, v. 32, no. 2, 1962, 650-651 TEXT: A short note on the reactions of triethyl silane with carboxylic PERIODICAL: acid, using colloidal Ni as a catalyst. Monocarboxylic acids reacted giving the corresponding triorganosilyl esthers, in 50-85% yield. Esters of general formula $Et_3 SiOCO(CH_2) = OCOSiEt_3$ were synthesized in 60-80% yields from simple dicarboxylic acids. Colloidal Ni promoted hydrogenation as well as dehydrocondensation, as was shown by the reactions of Et Sill with halogenated and unsaturated acids. Monochloracetic acid yielded either Et_SiOCOCH_Cl or (Et SiOCOCH_ + Et_SiCl), depending on the molar ratie of the reagents. Unsaturated acids yield hydrogenated $C_ard 1/2$

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123{
ORLOV, N.F.; BOGATKIN, R.A.; SERGEYEVA, Z.I.; VORONKOV, M.G.
Interaction of hydroxysilanes with saturated acids in the
presence of colloidal nickel. Zhur.eb.khim. 32 no.8:2561-2566
 (MIRA 15:9)
 Ag '62.
 (Silane) (Acids, Organic)





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| TITLE: A method for obtaining Class 12, No. 168695 | | imethylphosphinio soid. 7 |
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L 65102-65 EWT(m)/EPF(c)/EWF(j)/T EN ACCESSION NR: AP5021973 UR/0286/65/000/014/0024/0024 547.419.1.5.07 AUTHOR: Orlov, N: F.; Mileshkevich, V. P. Vaynburg, V. M. TITLE: A method for producing organosilicon esters of chlorinated α- or β-organophosphonic acids, Class 12, No. 172788 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 24 TOPIC TAGS: chlorinated organic compound, organic phosphorus compound, silane esterification, phosphonic acid ABSTRACT: This Author's Certificate introduces a method for producing organosilicon esters of chlorinated α- or β-organophosphonic acids containing a radial of the RCHCl(CH₂) type at the phosphorus atom, Organophosphonyl chlorides are reacted

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| AUTHOR: Orlov, N. F.; Volod | کری Lina, L. N. | 1,55 22 |
| | | |
| | | 5. 14, 1965, 24 ns compound, silane, phosphorus |
| b SOURCE: Byulleten' izobrete TOPIC TAGS: organosilicon o acid ABSTRACT: This Author's Cer ganosilyl)-phosphinates by i in the presence of heat. A triorganoacetoxysilanes. | compound, organic phosphoru tificate introduces a meth nteracting monofunctional | us compound, silane, phosphorus nod for producing bis-(trior- silanes with phosphorous acid |
| U SOURCE: Byulleten! izobrete TOPIC TAGS: organosilicon c acid ABSTRACT: This Author!s Cer | compound, organic phosphoru tificate introduces a meth nteracting monofunctional | us compound, silane, phosphorus nod for producing bis-(trior- silanes with phosphorous acid |

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| AUTHOR: Orlov, N. F.; Miles | in and the difference of the state of the second state of the second state of the second state of the second st | B 155 |
| FITLE: A method for produci Class 12, <u>No. 172789</u> | ng <u>dialkyl-(triorganosilyln</u> | <u>methoxymethyl)-phosphinates.</u> |
| SOURCE: Byulleten' izobrete | miy i tovarnykh znakov, no. | 14, 1965, 25 |
| TOPIC TACS: chlorinated ali | | bine organosodium compound. |
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| ACCESSION N | R: AP5024970 | | UR/0286/65/000/016/ | 0033/0033 |
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| WTHOR: Or | Lov, N. F.; Miles | hkevich, V. P.; Androno | 547.419.1.07 v, Ye. S. H4 , | 26 B 1.4455 |
| TITLE: Prep lass 12, No | peration of organs | bilicon derivatives of | hydroxyalky1phosphonic | acids. |
| SOURCE: By | ulleten' izobrete | niy 1 tovarnykh znakov, | no. 16, 1965, 33 | |
| | | | | |
| TOPIC TAGS: | àrganosilicon c | empound, phosphonic aci | d, phosphonate | |
| BSTRACT: ilicon hyd icid derival | An Author Certific roxyalkylphosphon tives with alkylc | cate has been issued fo lc acid derivatives inv nlorosilanes in organic oxymethyl)phosphonates | r a preparative method olving the reaction of solvents. The method | phosphonic provides |
| BSTRACT: / bilicon hydi cid derivat for the use | An Author Certific roxyalkylphosphon tives with alkylc of dialkyl(sodio | cate has been issued fo Ic acid derivatives inv miorosilanes in organic | r a preparative method olving the reaction of solvents. The method | phosphonic provides derivatives. |
| ABSTRACT: / bilicon hydi cid derivat or the use ASSOCIATION | An Author Certific roxyalkylphosphon tives with alkylc of dialkyl(sodio | cate has been issued fo Ic acid derivatives inv miorosilanes in organic | r a preparative method olving the reaction of solvents. The method | phosphonic provides derivatives. [BO] |

EWT (m)/EWP(1) RM 1 11136-66 SOURCE CODE: UR/0286/65/000/023/0018/0018 Î ACC NR: AP6002513 Orlov, N. T. | Kaufman, J. L. THYENTOR ORGI 2080 Preparation of organosilicon esters of acetophosphonic acid TITLES Class 12, No. 176585. SOURCE: Byulleten' isobreteniy 1 towarnykh snakov, no. 23, 1965, 18 TOPIC TAGS: organosilicon phosphinates, synthetic material ABSTRACT: An Author Certificate has been looued for a preparative method for organosilicon esters of acetophosphimic acid [sic]. The thod involves heating of triergamoscetoxysilanes with phosphorus [30] trichloride in an inert gas. SUB CODE: 07, 11/ SUBM DATE: 140ct64/ ATD PRESS : 547.419.5.07 UDCI 547,419,1.07

| 42422-65 .EMT(m)/EPF(c)/ | EWP(j)Po-4/Pr-4 | RM \$/0079/65/035/ | 003/0590/0591, |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|-----------------------|
| CESSION NR: AP5008842 | | | |
| UTHOR: Orlov, N. F.; Mile | eshkevich, V. P.; Ge | fter, Ye. L. | 38 |
| ITLE: The reaction of hy | droxymethylphosphini | c acid With triorganoal | koxysilanes |
| OURCE: Zhurnal obsichey | khimil, v. 35, nu. | , 1085, 590-591 | |
| OFIC TAGS: silicon organ | lic compound, organic | ; synthesis, methylol g | 양성 전문상에 관광하는 것은 것 같아. |
| BSTRACT: The reaction of IOCH ₂ P(O)(OH) ₂ is studied. reactions with triorganoal reaction product is a <u>tric</u> is formed with 45-55% yiel | lkoxysilanes take pl organosilyl ester of ld as follows: | ace at comparable rates hydroxymethylphosphini | and the main |
| ar _a sior' + 1 | HOCH2P(0)(0H)2+R3SIO | CH2P(0)(OSIR3) + 3R'OH | |
| The reaction is carried or hydroxymethylphosphinic a | | une of triorgancalkoxy | ilane with |

| 742422-65 Accession NR1 AP5008842 | | | | $\overline{7}$ |
|--------------------------------------------------------------------|---------------------------------------|--------------------------------|--------------------------------------------|----------------|
| alcohol yield is 75-100% of the The authors give the properties | theoretical yiel and analytical of | d. The react Lata for the s | ion takes 6-8 hours ynthesized compound | 3. 18. |
| SSOCIATION: Leningradskiy ins Leningrad Institute of the Tex | titut tekstil'noj tile Industry) | promyshlenno | ati im. S. M. Kirov | va |
| SUBMITTED: 090ot64 | ENCL: | 00 | SUB CODE: OC | |
| NO REF SOV: 002 | OTHER: | 000 | | |
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| Cer . | | | | |

ORION, M.F., MURCHYLAT & V.F., GEFFEL, Year.
Synthesis & bis (triangenosily stringenosily stringenosily

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| | /EPF(c)/ENP(j)/T RM | UR/0020/65/164/002/03 | 14/03 |
|-------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| ACCEBBION NR: AP50 | | | 10 |
| AUTHOR: Orlov, I. | P., Mileshkevich, V. P. | | 1 |
| TITLE: Dialkyl tri | organosilylmethoxymethylpho | sphonates and their stability | towar |
| hydrolysis - | | 가 있는 것은 것은 것은 것은 가장에 가장에 있는 것은 것은 것이다. 도한 사람에 있는 것은 | |
| | Doklady, v. 164, no. 2, 196 | | ſ |
| phosphonic acid, pl | nospnonic ester | er, phosphorus containing poly | |
| ABSTRACT: Previous | toward hydrolysis . The only | on- and phosphorus-containing of tical applications, suffer from class of compounds in which h hosphorus-bearing fragments is his of esters of trialkylsilyls | nydro |
| ficient stability | vork deals with the synthes | BIS OI ESCETS OI FILELAJIDILJI | |
| ficient stability | work deals with the synthes | BIS OF ESCETS OF STRANJEST, | |
| ficient stability 1 does not produce so Si-(CH ₂) _n -P. This | work deals with the synthese cids | ISIR'R'' | |
| ficient stability 1 does not produce so Si-(CH ₂) _n -P. This | work deals with the synthese cids | ISIR'R'' | |
| ficient stability 1 does not produce so Si-(CH ₂) _n -P. This | work deals with the synthese cids | ISIR'R'' | |

| ecu th | ydrolysis with appreciable ric materials. The result derably more stable toward thes $\text{Si-}(\text{CH}_2)_n$ -P with resp | hydrolysis pect to hydro- [VS] |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| lytic stab | noy i legkoy promyshlennost Light Industry) | |
| | T DIBUC INGRECIA! | DE: OC,GC |





"APPROVED FOR RELEASE: Wednesday, June 21, 2000

EPF(n)-2/EWT(1)/EWT(m)/EWP(•) GG/WH SCURCE CODE: UR/0368/66/004/004/0323/0326 28360-66 53 A16012855 52 ANALAN ANALAN I. T. LODO, N. A $\mathcal{B}^{:u}$ TITLE: Absorption centers produced at low temperatures in certain glasses of simple Musics: Estral prillednoy spectroshopil, v. 4, no. 4, 1966, 323-326 TOPIC THES: burkte glass, silicate glass, glass property, same rediction, color conter, radioluminescence, absorption spectrum ADBIRACT: To obtain more information on the nature of the color centers and radioluminescence in irradiated glass, the authors investigated the effect of 7 rays from Co³⁰ at liquid nitrogen Comperature on various glasses. The experiment was carried out in a dissountable glass Dewar with side windows of quartz glass limename to discoloring by ? rays. The 7-ray dose intensity was 4100 r/hr. The induced absorption spectra of the glasses were measured at the same temperature by determining the differance between the optical densities of the irradiated and non-irradiated glasses. The results show that the spectra of both glasses change noticeably at low temperature. In the sodium-silicate and non-alkali sodium-borosilicate glass ba strong increase was observed in the band near 640 ma. In the case of potassium silicate glass, a new band was observed at 820 mm. In the case of sodium borate glass and alkali sodium borosilicate glass the intensity of the 240 nm band increased. All these UDC: 661.11: 639.16 1/2 **CIA-RDP86-005** 2000


| | 32200-66 | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| sila | NR: AP6007119 nol derivatives of some other trivalent elements or groups: boron, phorus, or vanadyl. | 0 |
| high | The method is similar to that used in the preparation of trialkyl anti- tes, Sb(OR) ₃ , by reacting Sb ₂ O ₃ with alcohols. The higher reactivity ialkylsilanols, as compared with alcohols, can be explained by their er acidity caused by the p_{π} - d_{π} interactions between silicon and oxygen The second method (B) suggested is the silanolysis of trialkyl anti- | et cma. |
| | $3R_3SIOH + (R'O)_3Sb \rightleftharpoons (R_3SIO)_3Sb + 3R'OH.$ | |
| in be | On heating of the mixture the alcohol formed is stripped off. It is able to add the silanols in small quantities, e.g., dropwise, especiall azene solution, in order to prevent silanol condensation, thereby asing the yield of the desired product. | у. |
| hower | The presence of sodium in catalytic amounts accelerates the reaction; wer, the reaction proceeds readily even without any catalyst. | • |
| ן with a Cord | ris(trialkylsilyl) antimonites are either colorless liquids or crystals weak silanol odor. They are stable on storage in dry air, but | |

| hydrolyze in h increases with that of the tria The proper the first time) | rties of t are given | monites. | ompo | unds | synt | hesiz | ed (fo | | s nigner t | han | tes | |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|---------|
| Compound | para Yield tive meth- | bp,°C (p,tn num,Hg) | طي ^ع ب | n D 2 0 | M | R _D ICalcu- | Foun | d % | | Cal | culated | |
| ۲۱۹٬۵۰۵ میں ۱۹٬۵٬۵۱۱٬۶۱۵ میں ۱۹٬۵٬۵۱۱٬۶۱۵ میں ۱۹٬۵٬۵۱۱٬۶۱۵ میں ۱۹٬۵٬۵۱۱٬۶۱۵ میں ۱۹٬۵٬۹۱۳٬۶۱۵ میں | | 80° (3) 132 (5) 150 (3 5) 170 (3) 213 (30) mp 214° (benzene) | 1 1448 1.1318 1 1132 1.1041 1.1038 | 1.4374 1.4508 1.4588 1.4675 1.4684 | Found 89.17 102.59 116.23 129.69 129.04 - | lated 89.13 102.66 116.19 129.72 129.72 | 80 31.23, 31.71 28.25, 28.33 25.75, 25.64 23.83, 23.89 12.68, 12.10 | 81 21.52, 21.29 57.60, 17.44 18.01, 16.09, 16.09, 18.14 8.39, 8.39 | Formul a C ₉ H ₁₇ O ₉ SbSi ₉ C ₁₉ H ₂₀ O ₉ SbSi ₉ C ₁₃ H ₂₀ O ₉ SbSi ₉ C ₁₄ H ₄₀ O ₉ SbSi ₉ C ₁₄ H ₄₀ O ₉ SbSi ₉ C ₁₄ H ₄₀ O ₉ SbSi ₉ | 23.61 12.54 | 16.34 16.34 8.89 | |
| The refrac the authors, SB: v.2, no.57 B CODE: 07 / d 3/3 | | ement for ted to be TE: 05Ja | - | | bond 5.25 | | ont in 5 cm ³ . | 0r 1 | literature g. art. ha REF: 002 | 721] | cordin L tabl | g e. |

| 1-32714-65 END(3)/ENT(m) RH | 19 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| L 32/18-05 EMP(J)/EWI(M) NN SOURCE CODE: UR/0413/66/000/011/0019/00 | |
| | |
| INVENTOR: Orlow, N. F.; Kaufman, B. L. | |
| ORG: DORS | |
| | |
| TITLE: Preparative method for organic organosilicon esteral of acetylphomphonic | |
| | |
| Light Industry in. S. H. Kirov (Leningradskiy institut tekstil'moy i legkoy | |
| promyshlennosti)] | |
| SOURCE: Isobreteniya, promyshlennyye obrastsy, tovarnyye snaki, no. 11, 1966, | 19 |
| TOPIC TAGS: organosilicon ester, acetylphosphonic acid | |
| ABSTRACT: An Author Certificate has been issued for a preparative method of or organosilicon esters of acetylphosphonic acid. The method involves heating of alkyl(aryl)dichlorophosphites with triorganoacetoxysilanes. | ganic []] |
| SUB CODE: 07 / SUBM DATE: 03Apr65/ ATD PRESS: 5025 | |
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| UDC: 547.419.5'419.1.07 | 3 |
| Cord 1/1 | |
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| L 31797-66 ENT(m)/EWP(j) RM |
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| ACC NR: AP6021683 SOURCE CODE: UR/0079/66/036/003/0518/0521 |
| AUTHOR: Orlov, N. F.; Mileshkevich, V. P. |
| |
| ORG: Loningrad Institute of the Textile and Light Industry im. S. N. Kirov (Leningradsky institut tekstil'noy i legkoy promyshlennosti) |
| TITLE: Synthesis and certain properties of organosilicon esters of hydroxymothylphos- |
| phinic acid |
| SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 518-521 |
| TOPIC TAGS: chemical synthesis, phosphinic acid, ester, organosilicon compound, silane, hydroxyl group, chemical bonding, heterogeneous catalysis, acetic anhydride, chemical reaction, reaction mechanism |
| ABSTRACT: A method for producing bis(triorganosilyl)hydroxymethylphosphinates not previously described in the literature was developed. The reaction of triorganoalkoxysilanes with hydroxymethylphosphinic acid in a 2:1 ratio is conducted under mild conditions, distilling off the alcohol under vacuum while heating the reaction mixture to a temperature not higher than 50-60°. The formation of such products is direct evidence that the hydroxyl bonded to the phosphorus through the carbon atom in the hydroxymethylphosphinic acid molecule is less reactive than the acid hydroxyls toward alkoxysilanes. The reaction of bis(trialkylsilyl)hydroxymethylphosphinates with trialkylsilane |
| Card 1/2 UDC: 547.281.1+546.185 |
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| ACC | NR: A | 7 -66 19602 | 168 | 8 | | | | | | | | | | | 0 |
|------|-------|-----------------------|-----|-------|-------------|------------------------------------------|---------------|-------|--------|-------|------|-----|-------|-----|---------------------------------------|
| anhj | dride | in t | he | prese | nce of t | a collo: cataly rialkyl: ly. Or | uc e silon | wheth | ylnhos | phini | o or | 800 | toxym | | |
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建建 网络印度斯斯 经推过股份的现在分词 经 Status - March WW/RM 14641-66 EWT(m)/EWP(j)/T/ETC(m)-6 SOURCE CODE: UR/0020/66/166/002/0378/0380 ACC NR. AP6004093 46 AUTHOR: Orlov, N. F.; Viktorov, O. F.; Yelkins, N. S. R ORG: Leningrad Institute of the Textile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstil'noy i legkoy promyshlennosti) 14.55 TITLE: Synthesis of dialkyl glycidyloxymethylphosphonates SOURCE: AN SSSR. Doklady, v. 166, no. 2, 1966, 378-380 TOPIC TACS: polymer, phosphonate ester, catalysis, plasticizer ABSTRACT: Epoxidic organophosphorus compounds are of practical interest as plastici-sers, <u>fire-resistance</u> imparting additives, poly(vinyl chloride) stabilizers, etc. This work reports the preparation of new dialkyl glycidyloxymethylphosphonates from epichlorohydrine and dialkyl sodiooxymethylphosphonates according to the following reaction: (RO)P (O) CH.QNa + CICH,CHCH, -> (RO)P (O) CH,OCH,CHCH, + NaCI R=CaHa; CaHy; 180-CaHy; CaHa. The best yields are obtained by using excess epichlorohydrine in the presence of UDC: 547.419+547.631.1.07 Card 1/2

1. 14641-66 ACC NR: AP6004093 0 quaternary amonium catelysts. It was shown that acidic catalysts such as boron trifluoride etherate promote polymerization of the obtained glycidyloxymethylphosphomates; this is accompanied by cleavage of the spoxide ring. Orig. art. has: 1 table [VS] SUB CODE: 11,07/ SUBM DATE: 28Apr65/ ORIG REF: 006/ OTH REF: 001/ ATD PRESS: ---- ---/ vin sef: 001/ 4198 1954 (1997) 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 1.20 • . . 4 Card 2/2

ala anisan karangan kara panasahin karangan sa

| 40967-66 EWP(e)/EWT(m) WH ACC NR: AP6023365 SOURCE CODE: UR/0237/66/000/007/0006/0011 47 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| AUTHOR: Orlov, N. F. | |
| ORG: none TITLE: <u>Radioluminescence in nonorganic glasses</u> | |
| SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 7, 1965, 6-11 | |
| TOPIC TAGS: optic glass, radioluminescence, phosphorescence, impurity center, nuclear radiation, Cerenkov radiation, Cerenkov effect, radiation dosimetry, cerium | |
| ABSTRACT: General questions concerning luminescence in nonorganic glasses excited by nuclear and other types of radiation are discussed. Radioluminescence of glass in high energy fields is considered in the following terms: a) luminescence of active centers and particular types of structural formations initially present in the glass; b) lumi- nescence of impurity centers and certain types of trap centers, generated by the inter- action of radiation with the material; c) luminescence due to radicals created in the process of irradiation; d) Cerenkov effect. Type a) luminescence is observed in lead and cerium glasses. Since only trivalent cerium is capable of luminescence, the bright- ness of luminescence in optic glasses formally containing tetravalent cerium, is low. Due to high concentration of lead in flint glasses the extinction is very pronounced, reducing the specific intensity of luminescence. Other activators, e. g., titanium and | |
| UDC: 666.11.01 : 535.37 | |
| | |

| cence. Absorption tions capable of initially contained ticles with the mat ties of radiation fect is utilized created due to the bonds. Type d) 1 flint glass, than tribution of type The effects of te | in glass as impurities, do n n zones present in quartz gla luminescence. Type b) lumine ed in the glass, but generate aterial. The magnitude of th and the initial concentration in radiation dosimetry. Type e ionizing effects of radiation uminescence due to the Cerent in crown glass. This effect b) luminescence is negligible imperature, phosphorescence, of structure on radioluminescence b luminescence of various type c. | ass are an example of escence is due to imp ed due to the interact his effect is determine on of appropriate elected ion and the breakup of kov effect is more pro- t is not temperature le, compared to the of effects of glass dark cence are also discut es of glass are given | urity elements not tion of nuclear par- ned by the proper- ments. This ef- sults from radicals of the molecular conounced in heavy dependent. The con- other three types. tening (due to irra- sed. The spectral h. Orig. art. has: [14] |
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| SUB CODE: 20,11/ | SUBN DATE: 27May65/ | ORIG REF: 002/ | ATD PRESS: 505 |

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| | 25590 rlov <u>, N. F.; Mil</u> e: | shkevich. V. J | P. | UR/0413/66/0 | 1 | 32 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------------------------|-------------------------------|------------|----------------|
| ORG: none | | | | | | 3 |
| TITLE: Pre 12, No. 183 | parative method fo | or silicon-con | ntaining hydr | oxymethylphos | phonates | Class |
| , , , , , , , , , , , , , , , , , , , , | obreteniya, promys | shlennyye obra | aztsy. tovarn | yye znaki, no | . 13. 196. | 20 |
| 1 | | | | - 4 | . 6 | |
| TOPIC TAGS: | | ing Tydronym | that phosphon | ic acid, org | anosi | ion |
| ABSTRACT: | | ficate present | ts a method f | or preparing | silicon- | eacted |
| ABSTRACT: | d | ficate present osphonates. | ts a method f | | silicon- | eacted [04] |
| ABSTRACT: containing vith organo | d This Author Certin (hydroxymethyl)pho | ficate present osphonates. t 40-800C. | ts a method f (<u>Hydroxyme</u> t | or preparing hyl)phosphoni | silicon- | |
| ABSTRACT: containing vith organo | | ficate present osphonates. t 40-800C. | ts a method f (<u>Hydroxyme</u> t | or preparing hyl)phosphoni | silicon- | |
| ABSTRACT: containing vith organo | | ficate present osphonates. t 40-800C. | ts a method f (<u>Hydroxyme</u> t | or preparing hyl)phosphoni | silicon- | |

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| | L 05182-67 EWT(m)/EWP(j) RM | |
| • | ORTOV, N. F., VOLODINA, L. N., Leningrad Institute of the Textile and Light | |
| | Industry S. M. Kirov (Leningradskiy institut tekstil'noy i legkoy promyshlennosti) | |
| • | "Bis(triorganylsilyl)phosphites" 30 | |
| | Moscov, Zhurnal Obshchey Khimii, Vol 36, No 5, 1966, pp 920-923 | |
| • | Abstract: Two new methods were developed for synthesizing bis(triorganylsilyl) phosphites, based on the reaction of phosphorous acid with hexaalkyldisiloxanes and triorganylacetoxysilanes. 5-Bis(triorganylsilyl)-phosphites were synthe- sized; among them bis(dimethylethylsilyl) phosphite and bis(dimethylphenylsilyl) phosphite were prepared for the first time. The bis(triorganylsilyl)phosphites are colorless liquids with a weak silanol odor, stable in dry air and readily hydrolyzed by water to form the original phosphorous acid and triorganylsila- nols. The latter are usually dehydrated to form heraorsamidication | |
| | Orig. art. has: 2 formulas and 1 table. [JPRS: 37,023] TOPIC TAGS: [siloxane, organic phosphorus compound | |
| | SUB CODE: 07 / SUBM DATE: 21Apr65 / ORIG REF: 007 / OTH REF: 001 | - |
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| ا ، ا | Cord 1/1 ymb UDC: 546.287 4 547.26.118 | |
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| L_04850-67 EWP(j)/EWT(m) RM | |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| ACC NR: AP7000237 | SOURCE CODE: UR/0079/66/036/004/0699/0704 |
| AUTHOR: Orlov, N. F.:. Mileshkevich | A V P |
| ORG: Leningrad Institute of the Ter | otile and Light Industry im. S. M. Kirov (Leningrad- |
| skiy institut tekstil noy i legkoy | |
| TITLE: Reaction of Hydroxymet | hylphosphinic Acid with Trialkyl- |
| Acid Synthesis Of | Esters of Acetoxymethylphosphinic |
| AOLU | |
| Moscow, Zhurnal Obshchey Khimi | 1, Vol 36, No 4, 1966, pp 699-704 |
| i . | |
| Abstract: Two new methods of | producing esters of acetoxymethyl- |
| prosprinto acid were developed | rialkylacetoxysilanes fand acetic |
| anhydride. as well as that of | esters of trialkoxysilyloxymethyl- |
| phosphinic acids with acetic a | anhydride in the presence of |
| catalytic amounts of sulfuric | acid. The reactivity of various |
| with eactin anhydride was stud | of hydroxymethylphosphinic acid lied, and a scheme of the mechanism |
| of their interaction was propo | osed. Under the same conditions, |
| the Si-O-C group is quantitati | lvely cleaved, the S1-O-P group 18 |
| | the C-O-P group remains inert. |
| Orig. art. has: 2 formulas and 1 t | |
| TOPIC TAGS: organic synthetic proc Cord 1/1 SUB CODE: 07 / SUBMIN | ess, silane esterification, phosphinic acid DaTE: 21Mar65 / ORIG REF: 008 / OTH REF: 004 |
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| L 06502-67 EWP()/EWT(m) RM SOURCE CODE: UR/0079/66/036/006/1075/1078 | |
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| ORLOV, N. F., MILESHKEVICH, V. P., VAYNBURG, V. M., Leningrad Institute of the Textile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstil noy | |
| i legkoy promyshlennosti) " <u>Synthesis</u> of <u>Organosilicon Esters of Alpha- and Beta-Chloroalkyl(aryl)-</u> phosphinic Acids. Interaction of Bis(trialkylsilyl)chloromethyl- phosphinates with Sodium Triethylsilanolate" | |
| Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1075-1078 | |
| Abstract: A method was developed for producing new bis(trialkylsilyl) esters of chloromethyl-, beta-chloroethyl-, and alpha-chlorobenzylphosphinic acids. They were synthesized by the reaction of dichlorides of the corresponding chloroalkylphosphinic acids with trialkylacetoxysilanes under conditions of continuous distillation of the acetylchloride formed. In the reaction of sodium triethylsilanolate with bis(trialkylsilyl)chloromethylphosphinates, hexaalkyldisiloxanes and sodium salts of trialkylsilyl esters of chloromethyl- phosphinic acid were formed. The reaction mechanism deduced indicates a sub- stantial sensitivity of the P-O-Si group to the action of mucleophilic agents. Orig. art. has: 1 formula and 1 table. [JPRS: 37,023] | |
| TOPIC TAGS: organosilicon compound, ester, organic synthetic process, phosphinic acid | |
| SUB CODE: 07 / SUBM DATE: 06Feb65 / ORIG REF: 003 / OTH REF: 004 | |
| Cord 1/1 m Le 547.419 0923 1/86 | |
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| L 05164-67 EWT(m)/EWP(j) EM | |
| ACC NR. AP7000740 JOURCE CODE: UR/0079/66/036/005/0892/089 | 5 |
| ODIOU N. R. MATESINGUTCH V. P., Leningrad Institute of the Textile and | 23 |
| Light Industry imeni S. M. Kirov (Leningradskiy institut texsoir hoy i | |
| legkoy promyshlennosti) Interaction of Hydroxymethylphosphinic Acid with Trialkylshlepe | |
| Hydrides" | |
| | - 40 |
| Moscow, Zhurnal Obshchey Khimii, Vol 36, No 5, 1966, pp 892-895 | |
| Abstract: In a previous communication the authors reported on the synthesis of hydro | of the state |
| Abstract: In a previous communication the duthing by the reaction of hydro bis(triorganosilyl) triorganosiloxymethylphosphinates by the reaction of hydro xymethylphosphinic acid with triorganosilane hydrides in the presence of a | |
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| hydrides results in the formation not only of bis(trialkylsilyl)phosphone- methylphosphinates, but also 0-trialkylsilyl-0-[bis(trialkylsilyl)phosphone- methyl]trialkylsiloxymethylphosphinates. a new class of compounds. A reaction | |
| mechanism is proposed. [JPRS: 37,023] | |
| | |
| TOPIC TAGS: silane, phosphinic acid, organic synthetic process | |
| SUB CODE: 07 / SUBM DATE: 28Jan65 / ORIG REF: 009 / OTH REF: 001 | |
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| AND | As an and the |
| UDC: 547.245 + 547.241 | |
| Cord 1/1 vmb 092 2 | ANT TO ANT |
| TOPIC TAGS: phosphorous acid, silane | • |
| For Free one work of the | |
| SUB CODE: 07 / SUBM DATE: 20Dec65 / ORIG REF: 003 | |
| APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00 |)513R00123 |
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ACC NR: AP6035688 (A,N) SOURCE CODE: UR/0413/66/000/019/0032/0032 INVENTOR: Orlov, N. F.; Viktorov, O. F. ORG: none TITLE: Preparation of dialkyl-l-(3-chloro-2-hydroxphropyl) hydroxmethyl phosphinates, Class 12, No. 186474 [announced by Leningrad Institute of the Textile and Light Industry im. S. M. Kirov (Leningradskiy institut tekstil'noy i legkoy promyshlennosti)] Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, SOURCE: 1966, 32 Diganic TOPIC TAGS: exphosphorus compound, phosphinic acid, ester ABSTRACT: In the proposed method, dialkyl-1-(3-chloro-2-hydroxypropyl)hydroxymethyl phosphinates are obtained by the reaction of HCl with dialkylglycidylhydroxymethyl phosphinates. [PS] [WA-50; CBE No. 14] SUB CODE: 07/ SUEM DATE: 23Nov65 Cord 1/ UDC: 547.261118.07

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000

| ACC NR: AI | P7002970 (A) SOURCE CODE: UR/0413/66/000/024/0050/0050 | • |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| INVENTOR: | Orlov, N. F.; Vol'f, L. A.; Androsova, M. V.; Kirilenko, Yu. K. | |
| ORG: none | | |
| TITLE: Pro | eparative method for poly(vinyl alcohol)-based fireproof fibers, films . Class 29, No. 189515 | : |
| SOURCE: I | zobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 50 | |
| TOPIC TAGS | : polyvinyl alcohol, fire resistant material, polymer | I |
| ABSTRACT: | An Author Certificate has been issued for a method of preparing poly(vinyl alcohol)-based fireproof fibers, films or fabrics. The method involves treatment of dehydrated fibers, films or fabrics with dialkyl hydrogen phosphites. | |
| SUB CODE: | 11/ SUBM DATE: 12Jul65/ ATD PRESS: 5112 | : |
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| Card 1/1 | UDC: 677.494.744.72:66.093.6 | |
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ORLOV, N.G., inzh.

fa 1965 - Canada Alabada - Alabad Alabada -

New development in the technology of manufacturing welded rails. Zhel.dor.transp. 44 no.7:45-48 Jl *62. (MIRA 15:8) (Railroads--Rails)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

OLAZMAN, M.G.; OELOV, N.G., kandidat meditsinskikh nauk, glavnyy vrach. Study of stable strains of staphylococci; author's abstract. Zhmr.nikrobiol.epid.i immun. no.2:53-54 7 '53. 1. Bol'nitsa imeni Baumana. (Staphylococcus)

ORLOV, N.G., kandidat mediteinskikh nauk Mork organization of district general prectitioners in a consolidated city hospital. Sov.zdrev. 15 no.5:33-37 S-0 '56. (MLRA 10:1) 1. Glavnyy vrach Ob³yedinennoy bol'nitay imeni N.B.Baumana v Moskve. (HOSPITAL ADDININSTRATION in Ruesia, vork organiz. of GP's in consolidated city hospital)

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ORLOV, N.G., kand.med.nauk (Moskva)

Organizing epidemic control work in a polyclinic servicing a specific area. Zdrav.Ros.Feder. 2 no.2:19-21 ¥ '58. (MIRA 11:3) (COMMUNICABLE DISEASES)

ORLOY, M.G. Two-stage treatment of patients in hospitals. Zdrav.Ros.Feder, 2 no.7:3-12 J1'50 (MTRA 11:7) 1. Glevary vrach bol'nitey im. Barmana, Moskva. (HOSPITALS)

ORLOV, N.G. (Moskva) Experience in expert temporary disability evaluation in the polyclinic. Sov. zdrav. 19 no. 4438-42 '60. (MIRA 13:10) 1. Iz bol'nitsy imeni Baumana. (DISABILITY EVALUATION)

ORLOV, N.G.

Daily dispensary. Zdrav. Ros. Feder. 5 no.5:3-5 My '61. (MIRA 14:5) 1.Glavnyy vrach bol'nitsy imeni N.E.Baumana, Moskva. (MOSCOWS-HOSPITALS-OUTPATIENT SERVICES)

OkloV, N.G. (Moskva) Efilminating lines in registering at the polyclinic. Sov. zirav. 2: no.9: 30-34. '61. 1. Glavnyy vrach bol'nitsy imeni Baumana. (MEDICAL CARE)

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ORLOV, N.O. (Moskva) Reorganization of the work of a polyclinic under new conditions. Sov. zdrav. 20 no.12:52-56 '61. (MIRA 15:6) 1. Glavnyy vrach Bol'nitsy imeni N.E. Baumana. (HOSPITALS--ADMINISTRATION)

ORLOV, N.G. A day clinic for peptic ulcer patients. Sov.sdrav. 21 no.8:10-13 '62. (MIRA 15:11) 1. Glavnyy vrach bol'nitsy imeni N.E.Baumana, Noekva. (PEPTIC ULCER) (HOSPITALS-OUTPATIENT SERVICES)

"APPROVED FOR RELEASE: Wednesday, June 21, 200 CIA-RDP86-00513R00123: URT'YEV, Viktor Petrovich; LUR'YE, Vitol'd Samar'yevich; ISAYEV, Al'bert Semenovich; ORLOV! Mikolay Il'ich; TSYPLUKHIN, Petr Garrilovich; SOKOLOV, A.N., red.; SHILLING, V.A., red.izd-va; BELOQUROVA, I.A., tekhn, red. [Vacuum are furnace]DugoVad. vakuumamaia pech'. Leningrad, 1962. 25 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Liteinoe proizvodstvo, no.5) (MIRA 16:2)(Electric furnaces) (Vacuum metallurgy)

CKLCV, N. J. 86-11-26/31

AUTHOR: Orlov, N. I., Col TITLE: The Practice Bomb Should be Modified (Prakticheskuyu bombu sleduyet modernizirovat')

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 11, p. 84 (USSR)

ABSTRACT: The author states that the practice bomb used at the present time for training navigators is inadequate, because with the aid of those optical devices and radar with which the bombing grounds are equipped, it is not always possible to obtain the precise fixes of the impacts of practice bombs. The author suggests that the present practice bomb be modified, or a new bomb designed. The author gives some details concerning the design of such a bomb.

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9,4120

AUTHORS: Golant, V. Ye., Orlov, N. I., Pakhomov, L. P.

TITLE: Production of a high-density plasma by a hot-cathode discharge in a magnetic field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 7, 1961, 797-801

TEXT: The authors present the results of an investigation of a hot-cathode $\sqrt{}$ discharge in a magnetic field. In such a discharge with a current density of over 3 a/cm² in an inhomogeneous magnetic field (H/H_c) 3 ÷ 5;H-magnetic field strength in the region under examination, H_c - magnetic field strength near the cathode) a plasma concentration of over 10¹⁴ cm⁻³ may be attained theoretically. It was the aim of the present investigation to determine the concentration of charged particles in such a plasma. The emitting area

on the loop- or ring-shaped cathode was 1.5 cm^2 , its temperature over 2000° C. The distance between the tungsten anode and cathode was 25 cm. The measurements were made in both a homogeneous and an inhomogeneous mage-

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ORLOV, N. I.

Magnetic ore deposite and snow cover. Priroda 52 no.1:114 '63. (MIRA 16:1)

1. Institut geografii AN SSSR, Moskva.

(Kursk Magnetic Anomaly-Snow)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123: Crlov, N.I. (Moskva) Snowstorms. Priroda 52 no.2:127-128 '63. (MIRA 16:2) (Elissarde)

 "APPROVED FOR RELEASE: Wednesday, June 21, 2000
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ORLOV, N.I., glavnyy veterinarnyy vrach Bugul'minskogo rayona, Tatarskoy EXT EARNTSHECHTIN, V.P. Prophylactic effect of hemosporikin. Veterinariia 30 no.11:58 J '53. (MERA 6:11) 1. Glavnyy fel'dsher tsentral'nogo soovetuchastka, Bugul'minskogo rayona (for Karmyshechkin).










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ORIOV, N. I.

20636 Orlov, N.I. K pyatidesyatiletyu zasluzhennogo deyateya nauki Kazakhak y pespuhliki, doktora biologicheskikh nauk, professora Tselishebeva Arkadiya Andrevevicha. Izvestiya Akad. nauk Kazakh SSR. No. 44, Seriya parazitol., vyp. 6, 1948, s. 1-2

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SO: LETOPIS ZHURHAI STATEY - Vol. 28, Moskva, 1949

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORIOV, N. I.

20637 Orlov, N.I. Spetsifichnost i patogennost prosteystikh v svete problemy vzaimootnosheniy parazita i knozyaina. Izvestiya Akad. nauk Kazakh. SSR, No. 44, Weriya parazitol., vyp. 6, 1948, s. 3-18.-Rezyure na Kazakh. yaz.

SO: IFTOPIS ZHURHAL STATEY - Vol. 28, Moskva, 1949

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|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| ORLOV, N.I. | Nov 52 |
| USSR/Medicine - Food Poisoning | |
| "Review of Monograph Food Poisoning and Its Prophylaxis," by N.I. Orlov, Library | |
| of the Practicing Physician, Medgiz, 1952, | 119 pp, 25,000 copies," (Yu. A. Kozlov, |
| reviewer) | |
| Gig i San, No 11, pp 60, 61 | |
| Lauds the clear and concise style of the au | athor and the up-to-date presentation |
| of information on food poisoning of bacteri | al and nonbacterial origin. Objects |
| to the brief treatment of Salmonella organi | isms and of their pathogenicity in |
| producing toxic infections. Considers that | t too little space is allocated to a |
| discussion of Sonne Dysentery bacilli as Originators of toxic food infections, | |
| and does not quite agree with the author's treatment of the symtomatology and | |
| pathogenesis of toxic infections caused by Sonne bacilli. | |
| | Source #264T35 |
| I rauslation No 449, 23 aug 55 | |

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|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORLOV, N. I | |
| | AID P - 2168 |
| Subject | : USSR/Medicine |
| Card 1/2 | Pub. 37 - 10/22 |
| Authors | : Belostotskaya, Ye. M., Beryushev, K. G., Kands. of Med. Sci., <u>Orlov, N. I</u> ., Dr. of Med. Sci., Fengauz, M. I., Kand. of Med. Sci., and Cherkinskiy, S. N., Doc. of Med. Sci. |
| Title | : From the practical work of the Scientific Research Sani- tary Institute im. Erisman in the introduction of physio- logical methods in investigations of hygiene |
| Periodical | : Gig. i san., 4, 40-43, Ap 1955 |
| Abstract | : The purpose of this article is to explain the work of the Institute in the light of I. P. Pavlov's theories and his analytical approach to observed phenomena. The reactions of the organism are studied in relation to the changes in its environment, climatic, atmospheric, industrial conditions, etc. The article is illustrated by many examples, observations of human beings and tests performed on animals. 10 Russian references (1951-1954). |
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ORLOV, N.I., prof.

Achievements in some areas of food hygiene in the U.S.S.R. during the last 40 years. Gig. i san. 22 no.10:57-66 0 '57. (MIRA 10:12) (FOOD hygiene, in food indust. & prep., hist. in Russia)

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ORLOV, N. I., MOLCHANOVA, O. F.

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"Modern Problems of Hybiene of Nutrition. Corresponding-member of the Acad Med Sci USSR."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.



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ORLOV, N.I., prof. (Moskva)

Decisions of the 21st Congress of the CFSU on the problems of nutritional hygiene. Gig. 1 san. 24 no.4:3-7 Ap '59. (MIRA 12:7) (FOOD, hyg. in Russia (Rus))

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ORLOV, N.I., prof. (Moskva) Fifth International Congress on Nutrition in Washington. Gig. i (MIRA 15:5) (NUTRITION-CONGRESSES)

SHILLER . VOLKOVA, N.N.; KOLCHINA, T.P.; NEVSKAYA, Ye.A.; ORLOV, N.I.; TROITSKAYA, I.P.; FEDOROVA, F.A.; MYASNIKOVA, O.F. Experience in the use of cytologic methods in preventive examinations of women. Akusr. : gin. 40 no.4:71-74 JI-Ag 164. (MIRA 18:4) 1. Gosudarstvennyy onkelogicheskly institut imeni Gertsena (dir. prof. A.N. N. vikov), Moskva i Rodil'nyy dom No.6 (glavnyy vrach I.V. Paviova), Moskva. (i)

J

CPLOY, N.L. Checking inspection weighing platforms on railroads. Tem. work. (MTRA 18:8)



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ORLOV, N.K., inch.; CHEREFENEO, A.Te., inch. Opportunities for reducing car rerouting on the Southwestern railroad. Zhel. dor. transp. 40 no.3:36-39 Mr '58. (MIRA 11:4) (Russia, Southern--Railroads--Traffic)

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ORLOV, N.L. [Rejults of the rough draft method of laying out ships] Opyt sekisnogo metoda rasmetki sudovykh konstruktsii. [Leningrad] Gos.isd-vo sudostroit. lit-ry, 1953. 46 p. (NIRA 7:6) (Shipbuilding)







YERAKHTIN, Dmitriy Dmitriyevich, dots., kand. tekhn. nauk; GOKHMAN, Shlema Molseyevich, kand. tekhn. nauk; DVINYANINOV, Vistor Nikolayevich, st. prepodavatel'; ZAYTSEV, Pavel Alekseyevich, inzh.; LOPATIN, Anton Venediktovich, dots.; ORLOV, Nikolay Mikhaylovich, inzh.; STRATANOVICH, Nikolay Nikolayevich, inzh.; STRIGANOV, Nikolay Ignat'yevich, insh.; TIKHONOV, Nikolay Prokop'yevich, dots., kand. tekhn. nauk; RAYKHLIN, Zaliman Tanfilovich, st. prepodavatel'; BELOV, Aleksandr Yemel'novich, dots.; RESHETNIKOV, N.S., dotsent, retsenzent; BABUSHKIN, I.N., ŝí red.; PITERMAN, Ye.L., red.izd-va; PARAKHINA, N.L., tekhn. red. [Repair of lumbering and forestry machinery] Remong lesozagotovitel'nykh i lesokhoziaistvennykh mashin. By D.D.Erakhtin i dr. (MIRA 15:2) Moskva, Gosleshmindat, 1961. 436 p. 1. Kafedra remonta Moskovskogo lesotekhnicheskogo instituta (for Reshetnikov). (Forests and forestry-Equipment and supplies) (Lumbering-Machinery)