"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000
APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

USSR/ Physical Chemistry - Crystals

B-5

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11039

Destruction of photolytic Ag near the anode on heating is attributed to emission of electrons by Ag-particles which dissociate further into Ag+ions that migrate to the cathode. Result of illumination of AgBr crystals depends on the medium. Photolytic Ag separates most intensively in H<sub>2</sub>S atmosphere and in vacuum. Illumination of crystals in H<sub>2</sub> and O<sub>2</sub> yields same results as in the air.

Card 2/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-00513R0005

AUTHOR:

Gladkovskiy, V.V

507/77-4-1-9/22

TITLE:

A Deviation From the Law of Interchangeability in Silver Bromide Crystals (Otkloneniye ot zakona vzaimozamestimosti na kristallakh bromistogo sere-

bra

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kine-matografii, 1959, Vol 4, Nr 1, pp 61-62 (USSR)

ABSTRACT:

The author, assisted by P.V. Meyklyar, investigated cases of deviation from the law of interchangeability in silver bromide crystals and came to the conclusion that in the formation of photolytic silver, not only individual silver atoms disintegrate on large crystals, but also groups of two and more silver atoms.

Card 1/2

SOV/77-4-1-9/22

A Deviation From the Law of Interchangeability in Silver Bromide Crystals

There is 1 graph and 2 Soviet references.

Vologodskiy pedagogicheskiy institut (The Vologda Pedagogical Institute) ASSOCIATION:

September 29, 1958 SUBMITTED:

Card 2/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 SE Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-**668**R0005

3/077/61/006/004/001/004 0051/0113

The effect of the treatment of cilver bromide crystals on the change in their dark conductivity under the action of light Gladkovskiy, V.V. NUTTIFEET

Marnal nauchnoy i prikladnoy fotografii i kinematografii, v. 6, g \* 73112 s

TEXT: In continuation of earlier Coviet research, the author attempted to find the effect of the treatment of silver bromide crystals on the amount of their dark conductivity of crystals of the treatment of the crystals of the treatment of the crystals of the crystal crystals of the crystal crystals of the crystal crystals of the crystal crystal crystal crystal crystals of the crystal crys ring the effect of the treatment of silver promise crystals on the amount of their dark conductivity on exposure to light. For experimental purposes, the crystals had silver electrodes. their dark conductivity on exposure to light. For experimental purposes, the crystals had silver electrodes. The illumination of the crystals was altered by a sensitometric silver wedge with a 0.10 constant, which was placed between a TPK-4 (PRY-4) recourt lamp and the specimen. Initially, the specimen a TPK-4 (PRY-4) recourt lamp and the specimen. meen a HPX-a research percurv lamp and the specimen. Initially, the specimens were treated with a Weak solution of sodium thiosulfate, washed twice and dried. The amount of silversation percurve for the measurement of the mens were treated with a weak solution of socium intobalitate, washed twice and dried. The amount of illumination necessary for the measurement of the and dried. The amount of illumination of the quadiment of the decimal by verying the illumination of the quadiment. dark conductivity was found by varying the illumination of the specimen. The dark conductivity was found by varying to illumination of the specimen. The exposure time was set by a notched disc. rotated by an T. An (SD\_An) even the exposure time was set by a notched disc. dark conductivity was found by varying the illumination of the speciment free exposure time was set by a notched disc, rotated by an A-60 (SD-60) synchrotype exposure time was set by a notched disc, rotated by an A-60 intensity exposure time was set by a notinea disc, rotated by an LA-50 (SD-50) synchronous motor. The dependence of the logarithm of the illumination intensity

Card 1/4

<del>IA-RDP86-9051</del>8R0005

3/077/61/006/004/001/004 D051/D113

The effect of the treatment ....

on the logarithm of the time of illumination for an AgBr crystal after treatment by a thiosulfate solution is conditioned by ripening at 48°C for 6 hours, treatment by a 10% KBr solution for 10 mins and treatment by a 3% AgNO3 solution for 10 mins. The curves obtained show that the cryotals are subject to the same laws as a photographic layer. The ripening of crystals leads to a reduced deviation from the interchangeability law and to increased light sensitivity, while washing in a KBr solution leads to increased deviations and reduced light sensitivity. The reverse effect with KBr is caused by washing in an AgNO<sub>3</sub> solution. In figure 2, the same curves for various reductions in dark conductivity during transillumination are illustrated. It can be seen that the upper curve reaches a minimum quicker than is the case with high blackening densities of a photographic layer. From figure 3, it can be seen that for both the crystals and the photographic layer, the deviation from the interchangeability law do not depend on the radiation wavelength. In conclusion, the author states that the results obtained correspond to those obtained on the deviation from the interchangeability law for a photographic layer. This confirms the hypothesis (Ref.7), according to which photolysis consists in the neutralization of surface silver ions by

Card 2/4

The effect of the treatment ....

8/077/61/006/004/001/004 D091/D113

photoelectrons. The author thanks ..... Leyklyer for his help. There are 3 figures and 7 Loviet references.

A MODERNICH: Peda togicheskiy institut (leda popical Institute), Volcyda.

OWN MIND: June 30, 1959

cord 3/4

**■**R0005

IORTYCH, Legzek; OKONHEWSKI, Roman; im Fakilwich, Wietor; Stellow Clab, Ewa; Glabkowska, Ewa

Further experimental studies on healing of pseudarthrosis. Chir. narzai: roma ontop. Pol. 29 no 1: 287-292 (62.

 7 Kliniki Ortopedroznej Akademia Medjoznej w Gdansku (Kleromiki doby dr. med. A. Gerger). GLADKOWSKI, S

628.882/.833 : 725.51

Cliedkowski S. The Ventifation of Hespitale.

Cliedkowski S. The Ventifation of Hespitale.

pp. 336—339.

The problem of the ventilation of hospitals has not yet been ade-

quately solved. The author examines the question of ventilation of sick rooms and ancillary accommodation (trainrooms, divisional kitchens, tollets) by the gravitational and mechanical massis, in his opinion, none of the ventilation methods so far tried out is satisfactory. Gravitational ventilation by means of exhaust conduits does not ensure sufficient air-exchange. As for mechanical ventilation, it should not be used in sick rooms, ancillary and domestic premises, being ensure, fortuitous, and dependent on atmospheric conditions. For such reasons the ventilation of hospital buildings continues to be an open question.

GLADKOWSKI, STANISLAW.

MEDICINE

GLADKO-OKI, STANISLAW. Wyposazenie sanitarnotechniczne zakladow leczniczych. Arkady, 1957. 327 p.

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, no. 1, Jan. 59

GLADKOWSKI, Wladyslaw

Treatment of enterobiasis with the aid of the preparation Molevac (pyrvinium pamoate). Wiad. parazyt. 9 no.3:235-239 163.

1. Katedra Parazytologii i Chorob Inwazyjnych WSR, Wroclaw. (OXYURIASIS) (PYRVINIUM COMPOUNDS)

# "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-00518R0005

CLADNEY, Ivan Fomich; ZIMIN, Grigoriy Semenovich; ZUBEKHIN, P.T., red.; PERELYGIN, N.S., red.; KARZHAVINA, Ye.I., tekhn.red.

[Lipetsk Province] Lipetskaia oblast'. Lipetsk, Lipetskoe knizhnoe izd-vo, 1959. 317 p. (MIRA 13:10) (Lipetsk Province)

CIA-RDP86-00513R0005

BOLITHAKOV, K.A.; BARDIN, V.A.; GLADNEVA, A.F.

System H<sub>2</sub>0 - HReO<sub>4</sub>: Zhur, neorg.khim. 10 no.11:2535-2537 N 165. (MIRA 18:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologia ineni M.V.Lomonosova. Submitted May 30, 1964. GLADNEVA, A.N.; MAKSIMENKO, N.S.; PAVLOV, S.V.

Furfurole-hexose method for processing husk and tam waste. Gidroliz. i lesokhim. prom. 14 no.7:23-25 161.

(MINA 14:11)

l. Krasnødarskiy gidroliznyy zavod. (FURALDEHYDE)

STARICHKOVA, V.Ye.; DUDKIN, M.S.; GLADNEVA, A.N.; MAKSIMENKO, N.S.

Preparation of fodder yeast from millet hulls. Gidroliz. i lesokhim. prom. 16 no.1:9-11 '63. (MIRA 16:2)

1. Odesskiy tekhnologicheskiy institut im. M.V.Lomonesova (for Starichkova, Dudkin). 2. Krasnodarskiy gidroliznyy zavod (for Gladneva, Maksimenko).

(Yeast as feeding stuff)

₩.

MAKSIMENKO, N.S.: GLADNEVA, A.P.: PAVIOV, S.V.: AKKERMAN, 1.Z.; KOLOSOVA, A.Ya.; EPSHTEYN, Ya.V.

Mastering the processing of new raw materials at the Krasnodar Hydrolysis Flant. Gidreliz. i lesokhim. prom. 11 no.6:12-16 158. (MIRA 11:10)

(Krasnodar--Hydrolysis)

# "APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

GLADNEVA, A.N.

Rice hulls as raw material for yeast production. Gidroliz.
i lesokhim. prom. 17 no.6:19-21 '64. (MIRA 17:12)

1. Krasnodarskiy gidroliznyy zavod.

**BR0005** 

GLADNEVA, A.M.; GIAZMAN, R.A.; GUREVICH, N.S.; MALIMOVSKAYA, Ye.V.

Chemical composition and physical properties of some types of raw material for hydrolysis. Gldroliz i lesokhim.pron. 12 no.4: 17-20 159. (KIRA 12:8)

1. Krasnodarskiy gidroliznyy zavod. (Krasnodar-Hydrolysis)

### "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

SIA-RDP06-20513R0005

EWT(m)/EWP(e)/EWP(t)/ETI/EWP(k) IJP(c) JD/JH L 33142-66 SOURCE CODE: UR/0226/66/000/005/0067/0073 ACC NR. AP6015352 (N) AUTHOR: Gladneva, L. I. (Moscow); Yefremenkova, V. I. (Moscow); Lebedeva, L. S. (Moscow); Spivak, G. V. (Moscow); Shelamov, V. A. (Moscow); Yurasova, V. Ye. (Moscow) 61  $\mathcal{B}$ ORG: none TITLE: Ascertaining the structure of sintered materials of the Me-MeO system by ion bombardment. Report presented at the Fifth All-Union Conference of Electronic Microscopy in Sumy, July 1965 SOURCE: Poroshkovaya metallurgiya, no. 5, 1966, 67-73 TOPIC TAGS: metal, metal oxide system, sintered aluminum powder, powder metallurgy, metal ponder, electron microscopy, ion bombardment ABSTRACT: A study of the structure of sintered aluminum powder material by ion bombardment is of practical significance for the investigation of materials obtained by means of powder metallurgy. The method is suggested for use for manufacturing samples prior to electron-microscopic investigations. Analysis of microphotographs shows that the base of SAP material is a cellular grid consisting of oxide particles bounded by aluminum pseudograins. Orig. art. has: 8 figures. [Based on author's abstract.] SUB CODE: 11, 20/ SUBM DATE: 11 Aug65/ ORIG REF: 002/ OTH REF: 001 Card

BR0005

GLADNEVA, M. N.

37496

funktsional'noye sostoyaniye aktivnoy mezenkhimy pri vospalitel'nykh zabloevaniyakh zhenskikh polovykh organov i dimanika ego pod vliyaniyem tokov vysokoy i jl'travysokoy chastoty. akusherstvo i cinekologiya, 1949, No. 6, s. 35-40

So.

Letopis' Zhurnal'nykh Statey, Vol. 47, 1949

## "APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

GLADNEVA, M.N., kand.med.nauk

Some data on the stimulation and induction of labor activity.

Akush.i gin. no.5:110 '61. (MTRA 15:1)

1. Iz Moskovskogo oblastnogo nauchno-issledovatel skogo instituta akusherstva i ginekologii (dir. - zasluzhernyy vrach RSFSR O.D. Matspanova, nauchnyy rukovoditel - prof. V.P. Mikhaylov).

(LABOR (OBSTETRICS))

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000
APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

GLADOSHCHUK, G. V.

Dissertation: "Reflex Changes in Muscle Activity and Metabolism During Irritation of the Oral Cavity or the Masticating Apparatus." Cand Biol Sci, Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR, Moscow, Oct-Dec 54. (Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec. 1954

GLADOSHCHUK, G.V.

Reffect of stimulation of the oral cavity and the masticatory apparatus on muscular activity. Onyt izuch.reg.fiziol.funk. no.3:323-333 '54. (MLRA 8:12)

l. Kafedra normal'nov fiziologii Leningradskogo neditsinskogo stomatologicheskogo instituta i Laboratoriya ekologicheskoy fiziologii Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR.

(MASTICATION) (TASTE' (WORK)

#### "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

BR0005

I. A. GLADOVA

N/5 735.95 .R2

Razvitiye elektrifikatsi i sovetskoystrany, 1921 - 1925 gg; sbornik dokumentov i materialov (Development of electrification of Coviet regions; Pod red. I. A. Gladova. Moskva, Gospelitizdat, 1956.

703 p. tables.

At head of title: Akademiya Nauk. Institut Ekonomiki. Bibliographical footnotes.

CIA-RDP86-22513R0005

GLADOVIO, Aleksardar, dr.

Purpura as a symptom of penicillin allergy. Med. Glas. 18 ac.lls  $370-371\,$  N  $^{1}64\,$ 

1. Interno odeljenje Medicinskog centra "Danilo I", Cetinje (Sef: dr. A. Gladovic).

**2543**R0005

GLADOVICH, G.U., inch.

Calculating the electric power production of a hydraulic station on the basis of power engineering indices. Izv.vys.ucheb.zav.; energ. 2 no.12:133-139 D 159. (MIRA 13:5)

ARGUNOV, P.P., prof.; STEPANOV, N.N., inzh.; GLADOVICH, G.U., inzh.

Turbine block with ejection from a conical suction pipe with an internal cone insert. Izv. vys. ucheb. zav.; energ. 3 no.11:100-104 N '60. (MIRA 13:12)

1. Odesskiy inzhenerno-stroitel'nyy institut. Predstavlena kafedroy ispol'zovaniya vodnoy energii.

(Hydroelectric power stations)

<del>IA RDP86-2251</del>8R0005

GLADOVICH, G.U., inzh.

Power losses in the machinery of a hydroelectric power station with continuous regulation. Elek. sta. 34 no.3:44-47 Mr '63. (MIRA 16:3)

(Hydroelectric power station)

# "APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 CIA-RDP86-00513R0005

ZAYDMAN, N.M.; GLADOVSKAYA, M.F.

Effect of the carrier porosity on the activity of a floating hydrogenation catalyst in the liquid phase. Khim.i tekh.topl.i masel 6 no.6:27-29 Je '61. (MIRA 14:7) (Petroleum--Refining)

ZIL'EER, Motel' Kushevich, kand. tekhn. nauk; MOZOVSKIY, Leonid
Davidovich, inzh. Prinimali uchastiye: GLADOVSKAYA,
T.K., inzh.; KOSTINA, T.M., inzh.; MARCHENKO, A.A., inzh.,
laureat Leninskoy premii, retsenzent; OSTROUKHOV, F.Ya.,
kand. tekhn. nauk, red.; SVET, Ye.B., red.

[Slag pumice] Shlakovaia pemza. Cheliabinsk, IUzhno-Uraliskoe knizhnoe izd-vo, 1964. 103 p. (ELKA 18:7)

BR0005

330

AUTHOR:

Gladovskiy, P. S., Engineer.

TITLE:

Steam Turbine type SVR-50-3 LMZ. (Parovaya turbina

tipa SVR-50-3 LMZ.)

PERIODICAL:

"Energomashinostroenie", (Power Machinery Construction), 1957, No.4, pp.1 - 4, (U.S.S.R.)

ABSTRACT:

A description is given of the main prototypes of the steam turbine SVR-50-3, operating with steam of 200 atm., 550-580°C, produced by the Leningrad Metal Works (LMZ) during the last quarter of 1956 and intended for fitting into existing power stations so as to increase the efficiency of the already installed lower pressure turbines. This steam turbine, a longitudinal cross-section of which is shown in Fig. 1, p.2, is a single cylinder unit of 50 000 kW, at 3000 r.p.m., directly coupled with an alternator and operating in conjunction with lower pressure turbines from two boilers producing 260-300 t/h steam each of 215 atm. and 575°C. The exhaust steam emanating from the turbine, which has a pressure of 34 atm. and a temperature of 350°C, is re-heated in an intermediate re-heater to 415°C and fed to medium pressure turbines. The turbine rotor is flexible,

330

Steam turbine type SVR-50-3 LMZ. (Cont.)

supported by two bearings; its critical speed is 2 000 r.p.m. The total weight of the turbine is 160 tons, overall length 8 200 mm, maximum height above the rotor axis 3 740 mm. The thermal circuit, the design and the used materials, control problems, and the lubrication system are discussed. As a result of experience gained at the Cherepet power station, a number of modifications of individual components were made. The heating-up of the turbines during starting is to some extent simplified, owing to the fact that the internal cylinder is made of pearlitic steel. There are three figures

BR0005

SHERLE, Z., dotsent; ZAKHARTSEV, V., inzh.; GLADSHEV, A., inzh.

Transportation of phosphate meal. Recn. transp. 24 np.7; 16-18 '65. (MIRA 18.8)

1. Gor'kovskiy institut inshem row vodnoso transporta (for Gladyshev).

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

The second columns of the Parachal Line of Marala Barry . 24, The Second State of Second State of the Second State of Second S

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

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CLADSHEVSKIY, YE. YE.

3 3

S/021/63/000/002/011/016 D405/D301

AUTHORS:

Kuz'ma, Yu. B. and Hladshevs'kyy, Ye. Ye.

TITLE:

Crystal structure of the compound Mn. Co. Ge

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1963, 205-208

TEXT: Eleven alloys of the system Mn-Co-Ge were investigated by C-ray structural and microstructural methods of analysis. The alloys were prepared from electrolytic manganese, cohalt (99.9%) and germanium (99.9%). All but two of the alloys were found to be nonhomogeneous. The existence of a new ternary compound of MgZn<sub>2</sub>

type was established; this compound exists in the system Mn-Co-Ge only at temperatures above  $500^{\circ}\text{C}$ , whereas in the system Mn-Co-Si it exists over the entire temperature range; its lattice constants are:  $a = 4.803 \pm 0.002$  Å,  $c = 7.739 \pm 0.004$  Å, c/a = 1.611; the compound has a narrow region of homogeneity. The two alloys which were found to be homogeneous have a structure of MnCu<sub>2</sub>Al type;

Card 1/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000
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Crystal structure of ...

8/021/63/000/002/011/016 D405/D301

their region of homogeneity (H phase) is considerable (20 - 33.3 atom.% Mn). The investigations showed that the system Mn-Co-Si has an intermediate position between the systems Mn-Co-Si and Mn-Co-Sn. Three alloys of the system Mn-Fe-Ge were also studied. No compounds of MgZn<sub>2</sub> type were found in this system. There are 3 tables.

ASSOCIATION: L'vivs'kyy derzhavnyy universytet (L'viv State Uni-

versity)

PRESENTED: by Academician I. M. Frantsevich of the AS UkrRSR

SUBMITTED: February 24, 1962

Card 2/2

BELEN'KAYA, G.M.; GLADSHTEYN, A.I.

Antibacterial activity and the sterility of dissolved antibiotics in relation to the duration and conditions of their preservation. Lab. delo 5 no.5:31-34 S-0 '59. (MIRA 12:12)

**■**R0005

GLADSHTEIN, A.I.

Cytology of the synovial fluid in injuries of the knee joint.

Ortop.travm.i protez. 21 no.6:21-28 Je 160. (MIRA 13:12)

(SYNOVIAL MEMBRANES—SECRETIONS)

(KNEE WOUNDS AND INJURIES)

CIA-RDP86-00E18R0005

GLADSHTEYN, A.I. (Moskva)

Schick-positive substances and acid polysaccharides in the synovial fluid in some pathological processes in the knee joint. Arkh. pat. 10:64-69 '62. (MIRA 17:1)

1. Iz mikrobiologicheskoy laboratorii (zav. - starshiy nauchnyy sotrudnik G.M. Belen'kaya) TSentral'nogo instituta travmatologii i ortopedii (dir. - doktor med. nauk M.V. Volkov).

BELEN'KAYA, G.M.; GLADSHTEYN, A.I.; LORAN, I.D.; CHERTKOVA, F.A.

Standardization of lydase — a Soviet preparation of testicular hyaluronidase. Lab. delo 8 no.4:28-32 Ap '62. (MIRA 15:5)

1. TSentral'nyy institut travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Priorov [deceased]) i Gosudarstvennyy kontrol'nyy institut meditsinskikh biologicheskikh preparatov imeni L.A.Tarasevicha (dir. L.S.Ogloblina).

(HYALURONIDASE)

BELEN'KAYA, G.M.; GLADSHTEYN, A.I.

Nature of testicular hyaluronidase inhibitors in some biological fluids of the body. Zhur.mikrobiol., epid.i immun. 33 no.8:42-46 Ag '62. (MIRA 15:10)

1. Iz TSentral'nogo instituta travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR. (HYALURONIDASE) (BOLY FLUIDS)

## "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-04 **E48**R0005

GLADSHTEYN, B.M.; SHITOV, L.N., KOVALEV, B.G.; SOEOROVSKIY, L.Z.

Reaction mechanism of direct haloslkylation of elementary phosphorus. Zhur. ob. khim. 35 no.9:1570-1574 S '65. (MIRA 18:10)

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-BR0005 GLADSHTEYN, B. M. paraffin Hydrocarbons: VII, The Conversion of Diene Hydrocarbons Into Cyclopropanes. The synthesis of 1, 1, 2, 2-Te tramethylcyclopropane, h. ra. Levine, B. M. Gladshteyn, P. A. Akishin, TESER/Chemistry - Diene Conversion Chemistry - Cyclopropens Moscov Ord of Lenin State U. Lab of Org Chem tment N. D. Zelinskiy, 5 3/4 pp \*Synthesis of Olefin, Faraffin, and Cyclohavelops a method for extracting cyclopropanoic hydrocarbons in three steps, and by this method "Ehur Obshch Khim" Vol XIX, No 6 agathesizes 1, 1-, 2,2-te tramethylogologropane, 64/49718 structure from its physical and chemical and determines its previously underscribed TEER/Chemistry - Diene Conversion properties (which are mentioned). Investigates Submitted 5 Jan possibility of using ditertiary 1,3-dibromide in Gustavson's reactions for first time.

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"APPROVED FOR RELEASE: Tuesday, September 17, 2002 APPROVED FOR RELEASE: Tuesday, September 17, 2002

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## "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 <del>CIA-RDP86-9051</del>8R0005

GLADSHTEYN, B. M.

"Conversion of Diene Hydrocarbons into Cyclobrobenes." Sub 5 Jan (1, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscov during 1951.

CC: Sum. Jo. 480, 9 May 55

"APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

<del>CIA-RDP86-02E1</del>3R0005

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Chemical Abst. Vol. 48 No. 5 Mar. 10, 1954 Organic Chemistry Synthesis of ardrocarbons. XVIII. The hydrobronilde and ma nyardranorius of A-methyl-1,3-pentadiene and 4-methyl-1,3-pentadiene in the synthesis of hydrocarbons with iso structure. R. Ya. Levina. A. A. Fainzilberg, and B. G. Treshchova (1600-20) Strift. Univ. J. Com. Chem. U.S.S.R. 22, 407-504 (1962) (Singl. translation).—See C.A. 47, 26786. XX. Synthesis of alkenes and alkanes with a quaternary carbon atom. R. Va. Levina, and alkanes with a quaternary carbon atom. R. Va. Levina constitute Univ. Moscow. Ibid. 835-9.—See C.A. 47, 2079d. XXI. Hydrobronides of diene hydrocarbons with a quaternary carbon atom. R. Ya. Levina and N. P. Shusherina. Ibid. 641-6.—See C.A. 47, 2079b. XXII. Transformation of diene hydrocarbons into cyclopropane, hydrocarbons. R. Ya. Levina and B. M. Gladshtein. Ibid. 647-52.—See C.A. 47, 2080b. H. L. H.

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE. Tuesday, Supt

3R0005

"Synthesis of Hydrocarbons XXII. Conversion of Diene Hydrocarbons Into Cyclopropane Hydrocarbons," R. Ya. Levinh, B. M. Gladshteyn, Moscow Order of Lenin State W"Zhur Obshch Khim" Vol XXII, No h, pp 585-591  A method was developed for obtaining cyclopropanes from conjugate dienes of iso-structure and using for 2 quaternary carbon atoms. 1,1,2-Trimethylcyclopropane with one or 2 quaternary carbon atoms. 1,1,2-Trimethylcyclopropane were prepd by this method. The last mentioned product has not been described previously. The opinion of 224733  American chemists of the impossibility of cyclization of ditertiary 1,3-dibromides by the Gustavson reaction is refuted.  324733
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"APPROVED FOR RELEASE: Tuesday, September 17, 2002

APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R0005

The method for despending perion. B. M. Chiebhtein
200. Approved to the complete of the control of the c

AUTHORS: Soborovskiy, L. Z., SOV/79-28-7-50:64 Gladshteyn, B. M., Kiseleva, M. I., Chernetskiy, V. N.

TITLE: Investigation in the Series of Organosulfur Compounds (Issledovaniye v ryadu organicheskikh soyedineniy sery) I. The Synthesis of the Fluoranhydrides of Alkanesulfo Acids and Their Halogen Derivatives (I. Sintez ftorangidridov alkansul'fokislot i ikh galoidoproizvodnykh)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7, pr. 1866-1870

ABSTRACT: The fluoranhydrides of aliphatic sulfo acids are little investigated. Some of them are of practical value, as, for instance, methane sulfofluoride which is an effective insecticide. In the present paper the authors realized the synthesis of some alkane sulfofluorides and their halogen

derivatives (comprising some not yet described in publica-

tions); they do so according to the general scheme

RF,  $Zn-F_2$   $\rightarrow$   $RSO_2F$ . The synthesis of the first member, Card 1/3 RSO\_C1

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R00 CIA-RDP86-00514R000 CIA-RDP86-00514R000 CIA-RDP86-00514R00 CIA-RDP86-00514R00 CIA-RDP86-00514R00

Investigation in the Series of Organosulfur Compounds. I. The Synthesis of the Fluoranhydrides of Alkanesulfo Acids and Their Halogen Derivatives

of methane sulfofluoride, according to the method by Davis, Dick (Devis, Dik) cannot be carried out. The authors succeeded in obtaining in good yield methane sulfofluoride from methane sulfoculoride by the action of potassium fluoride on it; the fluoride could be distilled off by means of steam without any admixtures. The same way the authors synthesized the hitherto unknown n .- and isopropane sulfofluorides, as well as the iodomethane sulfofluoride which could not be obtained according to the method by Davis. Thus the authors synthesized the hitherto unknown fluoranhydrides n-propane-, isopropane-, iodomethane, β-fluorethane-, β-chlorethane- $\beta$ -bromethane-,  $\beta$ -nitroethane- and  $\beta$ ,  $\beta$ -dichlorethane sulfo acids. It was shown that the heating of the methane-, n.-propane-, isopropane- and iodomethane sulfochlorides with a saturated solution of potassium fluoride and with uninterrupted distillation of the forming sulfofluoride by means of steam represents a convenient preparative method for the synthesis of the above mentioned compounds. There are 14 references, 6 of which are Soviet.

Card 2/3

. W '79-28-7-1=6 invertigation in the deriver of Organosultur Compounds. I. The Synthesis of the cluoranhydrides of the negative scids and Their Halogen Perivatives

SUBMITTING: New of, 1957

1. Sulfur compounds (Organic) -- Analysis 2. Fluoroanhydrides -- Synthesis 3. Acids -- Synthesis 4. Halogen compounds -- Chemical properties

AUTHORS:

1777 -- -7-21 64

Bohorovskiy, L. E., Gladshteyn, B. M., Chernetowiy, V. ..., Riceleva, M. I.

TITLE:

Investigation in the Series of Organic Sugar Compounds (Issledovaniya v ryadu organicheskikh coyedinenty sery) II. The Synthesis of the Fluoranhydrides of Likenesulte cid and Their Halogen Berivatives (II. Sinter Fromer dividor

alkensul'fokislot i ikh Foloidoproizvodnykn)

FERIODICAL:

Zhurnel obshchey khimii, 1958, Vol. 28, Nr 7, pr. 1879-1875

(USUR)

ABSTRACT:

Continuing the previous partr (bef 1) on the effect of potussium fluoride on some alkans sulfochlorides under the convenient preparative production of alkane- and halogenalkane sulfofluorides the authors carried out the investigation of the reaction of potassium fluoride rate ha ogen substituted ethanesulfochlorides; it was found that besides the substitution of the chlorine anhydride by fluorine another dehydration and dehalogenation takes place with unnaturated sulfo chlorides being obtained as finel products

Card 1/3

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SOY/79-28-7-33/64 Investigations in the Series of Organic Bulfur Compounds. II. The Synthesis of the Fluoranhydrides of Alkenesulfo Acids and Their Halogen Derivatives

(see scheme 1). The property of potassium fluoride to cleave off the hydrogen halide from two adjacent carbon atoms made it possible to realize the direct transition from the halogen derivatives of alkane sulfochloride to the sulfo fluorides of the unsaturated series in one stage in good yields. Hitherto only one such representative bus been known, the vinyl sulfofluoride (Ref 3). This reaction was used for the synthesis of the fluoranhydrides of the uncaturated aliphatic sulfo acids and their halogen derivatives, the constants of which are given in table 1. The halogenelkane sulfochlorides (as given in scheme 2) served as initial products for the synthesis of the sulfofluorides of the unsaturated type and their halogen derivatives, although the yield of the obtained 8-chlorethane mulfochloride was small. Concluding it may be said that the vinyl sulfofluoride and the  $\beta$ -enlorsvinyl sulfoftuoride (in two stereothomeric forms) were syntheshed in the way described. There are 11 references, 4 of which are dowiet.

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SOV/7 = 14-12-5116 of the Common of the Comm

TUBERTY, TD: 285 7:, 1957

1. Sulfur compounds (organic)—Analysis 2. Fluoroanhydrides
--Synthesis 3. Acids—Synthesis 4. Halogen compounds—Chemical
properties 5. Potassium fluoride—Chemical effects

Card 7/3

**■**R0005

CHADSHTEYN, B.M.; KULYULIN, I.P.; SOBOROVSKIY, L.Z.

Sulfur organic compounds. Part 4: Synthesis of \$\beta\$-chloroethane-chlorosulfonate. Zhur.ob.khim. 28 no.9:2417-2419 S \*58.

(Chlorosulfonates) (HIRA 11:11)

BR0005

5(3) AUTHORS: SCV/79-29-7-11/83 Gladshteyn, B.M., Rode, V. V., Soborovskiy, L. Z.

TITLE:

Synthesis of Fluorotrialkyl Germane Compounds (Sintez ftoristykh trialkilgermanev)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2155-2156 (USSR)

ABSTRACT:

In the present paper the synthesis of a fluorotrialkyl germane compound was carried out by the direct action of hydrogen fluoride on the tetraalkyl germane compound:

GeR<sub>4</sub> + HF R<sub>3</sub>GeF + RH, where R = CH<sub>3</sub> and C<sub>2</sub>H<sub>5</sub>. This reaction takes place smoothly and produces a quantitative yield of monofluorotrialkyl germane. It is possible that this reaction may be used for the elaboration of a quantitative method of determining some tetraalkyl germanes. The replacement of an alkyl group by fluorine in tetraalkyl germane becomes distinctly manifest in the properties of the remaining Ge - C bonds. The further action of HF on fluorotrialkyl germanes, even under more rigid conditions, does not lead to a separation of other alkyl groups. In this way fluorotrialkyl germanes are obtained in pure state, without admixtures of di- and trifluoroalkyl germanes.

Card 1/2

BR0005

Synthesis of Fluorotrialkyl Germane Compounds

507/79-29-7-11/93

For this reason the method is comfortable and preparative. The values of the increments of the atomic refractions of germanium for fluorotrimethyl- and fluorotricthyl germanes slightly vary between 8,35 and 8,28. The initial tetraalkyl germanes are obtained by organomagnesium synthesis from germanium tetrachloride and the corresponding alkyl magnesium halide, which under the present conditions (in dibutyl other medium) led to a quantitative yield. Earlier, this other was used for the synthesis of tetraalkyl germanes, their yield, however, was only low (Mef 5). There are 7 references, 1 of which is Soviet.

SUBMITTED:

June 17, 1958

Card 2/2

s/079/60/030/05/35/074 B005/B016

5.3620

AUTHORS:

Gladshteyn, B. M., Soborovskiy, L. Z. Investigation in the Field of Organic Sulfur Compounds. V. Synthesis and Some Properties of Halogen-ethine-sulfonic

TITLE:

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1574-1577 TEXT: At the beginning the authors give a survey of the experiments

TEXT: At the beginning the authors give a survey of the experiments which described in publications with respect to the synthesis of compounds \( \text{Refs. 1-4} \).

described in publications with respect to the synthesis of compounds which contain a sulfo group bound to a carbon atom of acetylene (Refs. 3) are contain a sulfo group bound to a carbon atom of prilutskiy (Ref. 3) are the Soviet authors \( \text{A} \cdot \). Dombrovskiy and \( \text{G} \cdot \). In the present paper, the synthesis of mentioned in this connection. In the present paper. The Soviet authors A. V. Dombrovskiy and G. M. Frilutskiy (Net. 2) are mentioned in this connection. In the present paper, the synthesis of this β-chloro-acetylene-sulfonic acid chloride, and various reactions of this compound, are described. The scheme of the synthesis is given. Acetylene which is allowed to react with athyl magnesium bromide serves as the compound, are described. The scheme of the synthesis is given. Accepted which is allowed to react with ethyl magnesium bromide serves as the initial product. The resultant organomagnesium complex (Interior complex) is converted by means of SO Cl. to the unstable acetylene-disulfonic acides converted by means of SO Cl. is converted by means of SO<sub>2</sub>Cl<sub>2</sub> to the unstable acetylene disulfonic soid chloride which passes over to the hydrate of the β"chloromacetylene"

Investigation in the Field of Organic Sulfur Compounds. V. Synthesis and Some Properties of Halogen-ethine-sulfonic Acid Chloride

Card 2/3

S/079/60/030/05/35/074 B005/B016

sulfonic acid chloride (I) under separation of SO2 when treated with water. The yield in (I) is about 10% calculated for the initial ethyl bromide. The compound (I) synthesized decolorizes potassium permanganate solutions, separates iodine from potassium iodide solutions, reacts after some time with the Ilosvay reagens (Cu+ + NH4OH) to form a characteristic precipitate of copper-chloro acetylide, and reacts in the form of an explosion with aniline. If the reaction with aniline is carried out under cooling and stirring, the crystalline, light-yellow dihydrochloride of the phenyl amide of \$-phenyl-amino-acetylene-sulfonic acid is formed. Under the action of aqueous bases on (I), the sulfo group is separated even more readily than with the corresponding derivatives of ethane and ethylene. The mere action of aqueous ammonia (1:1) causes the SO2 ions to form in the solution. A characteristic reaction of compound (I) is the reaction with bromine in carbon tetrachloride. Decolorization occurs in this connection; the analogous  $\beta$ -chloro-ethylene-sulfonic acid chloride does not decolorize the bromine solution under equal conditions. To convert the sulfonic acid chloride (I) to the corresponding sulfonic acid fluoride, the authors investigated the reactions of (I) with potassium fluoride and

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Investigation in the Field of Organic Sulfur Compounds. V. Synthesis and Some Properties of Halogen-ethine-sulfonic Acid Chloride

s/079/60/030/05/35/074 B005/B016

zinc fluoride. The reaction with powdered potassium fluoride proceeds vigorously, and a mixture of  $\beta$ -chloro-acetylene-sulfonic acid chloride and the initial product (I) is formed in the ratio ~55:45. Compound (I) is completely decomposed by aqueous potassium fluoride solutions. An organic fluoro compound is not even formed by treating (I) with solid zinc fluoride at 1500. All reactions performed are described in detail in an experimental part. All resultant products are characterized by physical data. V. N. Chernetskiy assisted in the experimental work.

N. P. Rodionova and Ye. M. Popov carried out the spectroscopic investigations of compound (I). There are 9 references, 6 of which are Soviet.

May 27, 1959

BR0005

GLADSHTEYN, B.M.; SOBOROVSKIY, L.Z.

Studies in the series of sulfur organic compounds. Fart 6: Synthesis of \$\beta\$-hydroxyethylsufofluoro-N.N-dimethylcarbanates. Zhur.ob.khim. 30 no.6:1960-1954 Je \*60.

(MIRA 13:6)

(Carbamic acid) (Sulfur organic compounds)

CIA-RDP86-22513R0005

RODIONOVA, Ye.F.; KOIESNIKOV, G.S.; SOBOROVSKIY, L.Z.; GLADSHTEYN, B.M.

Carbochain polymers and copolymers. Part 30: Gopolymerization of vinylsulfofluoride. Vysokom.sced. 3 no.3:456-458 Mr (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Vinylsulfofluoride)

**BR0005** 

GLADSHTEYN, B.M.; POLYANSEAYA, E.I.; SOBORCVSKIY, L.Z.

Sulfur organic compounds. Part 7: Reactions of additions to vinyl- and \$\beta\$-chlorovinylsulfonyl fluorides. Zhur. ob.khim. 31 no.3:855-857 Mr '61. (MIRA 14:3) (Sulfonyl fluoride)

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15 8114

5/190/61/003/003/009/014 B101/B204

11.2214

Rodionova, Ye. F., Kolesnikov, G. S., Schorovskiy, L. Z.,

Gladshteyn, B. M.

TITLE:

AUTHORS:

Carbon chain polymers and copolymers. XXX. The copolymeriza-

tion of vinylsulfofluoride

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 3, 1961,

456 - 458

TEXT: It was the purpose of the present work to obtain copolymers from vinylsulfofluoride (M,), produced from  $\beta$ -chloroethylsulfofluoride, with

 $(M_2)$ : styrene, vinylacetate, methylmethacrylate and acrylonitrile. The copolymerization was carried out at 50°C without solvent, in a nitrogen

atmosphere with 0.5 mole% azoisobutyric acid dinitrile. It lasted 25 hr. The copolymers were dissolved and precipitated with methanol. Their fluorine content and the softening temperature were determined. Table 1 gives the results. The good styrene copolymer yield and its softening temperature which was higher than that of polystyrene gave rise to further

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Carbon-chain polymers and...

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experiments under the same conditions, but with a varied ratio between vinylsulfofluoride and styrene. The copolymerization took 49 hr. Table 2 gives the results. With a content of about 32 mole% styrene, an azeotropic copolymer is obtained. The figure shows the results of the thermomechanical investigation of these copolymers, carried out according to B. L. Tsetlin (Ref. 3: Zavodsk. labor..32, 352, 1956). Equimolar mixtures of vinylsulfofluoride and styrene copolymerized in emulsion, after 7 hr resulted in a copolymer (in the presence of ammonium persulfate) with 6.85% F, yield 69%. Mention is made of the fact that polymerization of vinylsulfofluoride by means of benzoyl peroxide, azoisobutyric acid dinatrile or TiCl<sub>4</sub> was not successful. The authors thank G, L.

Slammskiy and his collaborators for determining the thermomechanical properties and S. A. Pavlova for determining the molecular weights. There are a figure, 2 tables, and 3 references: 2 Soviet bloc and a non-Soviet bloc. The reference to English language publication reads as follows: USA Patent 2,653,973 (1953); Chem. Abstrs. 48, 8815 (1954)

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds, AS USSR)

Card 2/4

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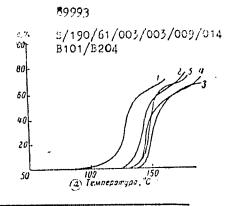


SUBMITTED:

September 2, 1960

Legend to the figure: Molar ratio M<sub>1</sub> : M<sub>2</sub>

in styrene-copolymer:
1) 1:6; 2) 3:8; 3) 5:11;
4) 3:5; 5) 2:3; a) temperature.



м,	Выход пере- осанденного сополимера, вес. %	Удельная вялность 1 %-ного раствора при 20° (раствори- тель) (12)	Содержание фтора и сопо- лимере (сред- под), %	Monapaoe coornome- nuc M <sub>1</sub> : M <sub>1</sub> B conomine- (9) (*)	Температура размигчении.	
Стирол (С	72	1,83 (этилицетатф)	7,10	2:3	135	
Винилацетат (7)	60	0,4 (ацетон) (4)	8,67	4:5	110	
Акрилонитрил (р)	44	1,03(диметилформ- выпд) (fi)	4,51	1:6	110	
Метилметакрила (2)	56	0,25 (ацетон)(1)	3,72	1.4	115	

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Carbon-chain polymers and...

5/190/61/003/003/009/014 B101/B204

Legend to Table 1:

1) Yield in reprecipitated copolymer, weight%. 2) Specific viscosity of the 1% solution at 20°C in (solvent). 3) Mean fluoride content of the copolymer. 4) Molar ratio M<sub>1</sub>:M<sub>2</sub>. 5) Softening temperature. 6) Styrene. 7) Vinylacetate. 8) Acrylonitrife. 9) Methylmethacrylate. 10) Ethylacetate. 11) Acetone. 12) Dimethylformamide.

1) Initial ratio of monomers, mole %. 2) Copolymer yield. 3) Specific viscosity of the 1% solution in athylaceter.	еси ион мол.	ходной омеров,	Выход сопо- лиме- ра, %	Удельная визмость 1 %-ного раствора и отплацетате при 23°	Мол. вес сополинера (осмо- мегричес- ний мегод)	Содержа- ние фгора в сополи- мер:, %	Молириое соотноше- ние М.: М. в сополи- нере	Темпера- тура раз- мигчения, °С
at 20°C. 4) Osmometrically determined molecular weight.  5) F content in the copolymer	10	90	90	0,80		2,71 2,50	1:6	121
O) molar ratio M ·M in +ha	i	80	92	0,88	698 000	4,74 5,00	3:8	135
copolymer. 7) Softening temperature	30	70	89	0,93		5,62 5,50	5:11	145
	40	60	87	0,90	-	6,83 6,48	3:5	130
Card 4/4	50	50	83	0,92	1 160 000	7,28 6,81	2:3	142

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 **⊯**R0005 APPROXED FOR RELEASE Tuesday September 17 2002

L 18271-65 ENT(m)/EPF(c)/ENP(j)

8/0079/61/031/009 42697/2902 ACCESSION AR. APS002984

AUTHOR: GUSTSHEVOY, B. 11. Fallotto, E. I. Seddlevs V. I. Solkit Valle, D.

TUTES Investigation i the series of organic suttle compounds viil Beharlor of Sikane and alkenesul contributes as a less their halo derivatives toraids esters of Sivilan Mopilious.

SCURCE: Zhurnal obanchay khianil, v. 71, or. 9, 1964, 2897-2902

TOPIC TAGS: organic sulfur uniffound. Thunride, esten, or pen to phosphorus computer

Abstract The behavior of altere and alterest fony fluorides

L 18271-65 Accession are ap5002984

(beta:fluorosulfoviny))methylphosphinital which reacted with the second solonide the second solonide similar to the reaction of discoving methylphosphinite similar to the reaction of discoving methylphosphinite.

ASSOCIATION: none

SUBLITIED: 05Apr63

NO HEF SOVI 012

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Glassin File, a. P. Control of the state of the State of Williams.

Organic cosponant of suctor, cartics becavior of alkane- and alkenyls. Med. Arides and of their halo privatives in relation to trivalent phosphorus acid esters. Thur. Th. Whim. 34 no.9: 2897-2002 (MISA 19:1)

ACCESSION MR: APSOSIA5

AUTHORS: Soborovskiy, L. Z.; Cladelicovi, B. M.; Kulyulin, L. J.

TITLE: A method for obtaining windley alland setems of methylhaloidomospidite acid. Class 12 Mc. 168694

BOURGE: Byulleten isotretenia Louizayin sustor, mc. 5, 1965, 23

BOURGE: Byulleten isotretenia Louizayin sustor, mc. 5, 1965, 23

TOPIC TALLS: ester trialkylsiland, setbylphosphinic soid.

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L 25679-66 ENT(m)/EWP(j) RM

ACC NR: APA016688 SOURCE CODE: UR/0079/65/035/009/1570/1574

AUTHOR: Gladshteyn, B. M.; Shitov, L. N.; Kovalev, B. G.; Soborovskiy, L. Z.

ORG: none

TITIE: Mechanism of the direct holoalkylation of elementary phosphorus

SOURCE: Zhurnal obshchey khimii, v. 35, no. 9, 1965, 1570-1574

TOPIC TAGS: free radical, phosphorus, alkylation, halogenation

ABSTRACT: A free radical mechanism of the direct haloalkylation of elemental red phosphorus was experimentally confirmed. The proposed mechanism includes an attack on the phosphorus molecule by radicals formed as a result of homolytic decomposition of the alkyl halide, leading to the formation of phosphorus-containing radicals, the further transformations of which depend on the probability of recombination with other radicals. The hydrocarbon radicals can subsequently either recombine or, splitting out a hydrogen atom, be converted to carbenes, leading to the formation of the reaction products. The reaction products of methyl chloride and of benzyl chloride with red phosphorus were found to contain not only phosphorus-containing substances, but also hydrogen, methane, ethane, ethylene, and propylene, and toluene and trans-stilbene, respectively. R. I. Borodulina and Z. A. Krayneva assisted with the experiment. Orig. art. has: 1 figure, and 3 tables. ITRS

SUB CODE: 07 / SUEM DATE: 08Jun64 / ORIG REF: 004 / OTH REF: 009

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BR0005

L 31805-66 ENT(m)/ENP(j) SOURCE CODE: UR/0079/66/036/003/0488/0492 A-6021631 ે ભવે: Gladshtayn, B. M.; Kulyulin, I. P.; Soborovskiy, L. Z. 13 ..: none Cleavage of the heteroatem-exygen bond by the difluoride of nethylphosphinic COLL SE Zhurnal obshchey khirdi, v. 36, no. 3, 1966, 488-492 ವ**ು**ರಗಿ0€ : "OPIC TACK: chemical bonding, phosphinic acid, esterification, reaction mechanism, Chaorido, fluorinated organic compound, substituent, transition complex, chemical synthesis and the diffuoride of methylphosphinic acid was found to be capable of cleaving the silicon-oxygen, germanium-oxygen, and arsenic-oxygen bonds, to form the corresponding trialkylsilanol, trialkylgermanol, and dimethylarsinol esters of methylfluorophosphinic acid and trialkylfluorosilane, trialkylfluorogermane, or trialkylfluoroarsine, respectively. The fluoride of ethanosulfonic acid does not cleave disiloxane bonds. The reactions studied are proposed as a convenient preparative method for synthesizing new silanol, cormanol, and arsinol esters of methylfluorophosphinic acid, which are difficult to prepare otherwise. A reaction mechanism is proposed: nucleophilic attack on the phosphorus atom of the difluoride of methylphosphinic acid by the electron pair of the oxygen atom of the reacting molecule, in accord with the general theory of substitution at a tetrahedral phosphorus atm through a transition complex. [JPRS] SUB CODA: 67 / SUBM DATE: 23June55 / ORIGHEF: 007 tibc: 547,241 Card 1/1 -

ACC NR. AP6030549

SOURCE CODE: UR/0413/66/000/016/0030/0030

[WA-50; CBE No. 11]

INVENTOR: Bliznyuk, N. K.; Kolomiyets, A. F.; Golubeva, R. N.; Varshavskiy, S. L.; Gladshteyn, B. M.; Zimin, V. M.

ORG: none

Card 1/1

TITLE: Preparation of aryl esters of N-(β-chloroethyl)taurine. Class 12, No. 184840 [announced by All-Union Scientific Research Institute of Phytopathology (Vsesoyuznyy nauchno-issledovatel'skiy institut fitopatologii)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 30

TOPIC TAGS: fungicide, <del>may chlorostly laurinate preparation,</del> hydroxyethyltaurine, thionyl chloride, phosphorus pentachloride, ester, hydroxide, ethylene

ABSTRACT: To obtain aryl esters of N-(\beta-chloroethyl) taurine with fungicidal properties, esters of \beta-hydroxyethyltaurine are treated with thionyl chloride or phosphorus pentachloride in an organic solvent (e.g., chloroform) at boiling temperature of the solvent. The excess of the initial reagents and HCl formed are removed from the reaction mixture; the residue is dissolved in an organic solvent, e.g., an ether, then mixed with alcoholic solution of an acid, and evaporated.

SUB CODE: 07/ SUBM DATE: 26Jul65/

UDC: 547.436'26'122.07

AUTHOR: Gladshteyn, D.A. (Engineer)

100-5-6/10

TITLE: Tipping lorry constructed for discharge on both sides. (Avtemobil'-samosval s razgruzkoy platformy na obe storony).

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction), 1957, Vol.14, No.5, p.17 (USSR).

ABSTRACT: This lorry KAZ-600 (KA3-600) was constructed by the Kutaisskiy Automobile Factory which is suitable when backtipping is impossible without resorting to awkward manoeuvring, e.g., during road construction and construction of embankments. The lorry is constructed as the tipping lorries ZIL 585 (3WM-585) and KAZ-585B (KA3-5856). A hydraulic jack serves as lifting mechanism which works to both sides. protective, cantilevered shield is fixed above the roof of the driver's cabin as safeguard during loading by crane. Rubber buffers are fixed to the frame to reduce the impact of the material during loading and when the tip-platform is returned. The loading capacity = 3500 kg, the loading space = 2.4 m3, the dimensions of the lorry are: length:5920 mm, width: 2360 mm, maximum height: 3300 mm, weight of the lorry: 4250 kg. The time of elevation: 20 seconds, time of return: 25 seconds. The above factory is also preparing the product-Card 1/2 ion of the tipping lorry KAZ-621 (KA3-621) which could tip

Tipping lorry constructed for discharge on both sides. (Cont.)

the load to both sides and to the back. Prototypes are being tested. Detailed technical data are given. There is 1 photograph.

AVAILABLE:

Card 2/2

**BR0005** 

GLADSHTEYN, D.A., inzh.

SM-NII-100 soil-cement truck-mounted mixer. Mekh.stroi. 14 no.6:16
Je '57. (MIRA 10:11)

(Mixing machinery)

BR0005

GRIGOR'YANTS, A.S.; GLADSHTEYN, D.A.; LANTSBURG, Ya.B.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.; YEPIFA-NOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, E.A., red. ZIMIN, P.A., red.; KANTSEL', Ya.O., nauchmyy red.; SHIROKOVA, G.M., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on the consumption of spare parts and materials in operating and repairing building and road machinery] Spravochnik po raskhodu zapasnykh chastei i materialov dlia ekspluatatsii i remonta stroitel'-nykh i dorozhnykh mashin. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 399 p. (MIRA 14:10)

(Building machinery—Maintenance and repair)

(Road machinery—Maintenance and repair)

## "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000

**548**R0005

MERZHVINSKAYA, Ye.P.; GLADSHTEYN, D.S.

The SPN-0,5 and SPN-0,1 mounted hoist booms. Biul.tekh.-ekon. inform. no.11:71-73 '58. (MIRA 11:12) (Hoisting machinery)

**₩**R0005

GLADSHTEYN, D.S.

The PSSh-0,3 hay loader and stacker. Biul. tekh. -ekon. inform. (MIRA 14:6)

(Hay-Harvesting)

GLADSHTEYN, D.S.

The STS-15 self-feeding fertilizer distributing planter. Biul.tekh,-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. no.4:69-71 (MIRA 15:7)

(Planters (Agricultural machinery))

GLADSHTEYN, I., inzhener-kapitan 3-go ranga; RYVKIN, A., inzhener-kapitan 3-go ranga

Operation of equipment on a ship. Tyl i snab. Sov. Voor. Sil 21 no.12:77-82 D '61. (MIRA 15:1) (Marine engines--Maintenance and repair)

KRASNOV, B. I.; GLADSHTEYN, L. D. (Odessa)

Occupational dermatitis in the preparation of stimulin D-1 and measures for its prevention. Gig. truda i prof. 2ab. no.4:50 '62. (MIRA 15:4)

1. Odesskiy oblastnoy kozhno-venerologicheskiy dispanser.

(ROVE BEETLES) (BIOLOGICAL PRODUCTS)
(SKIN-DISEASES)

**■**8R0005

SOKOLOVSKIY, P.I., kandidat tekhnicheskikh nauk; GLADSHTETH, L.I., inzhener.

Determining the tendency of lew-carbon steel to mechanical ageing. Standartizatsiin ne.6:41-45 N-D '55. (MIRA 9:2) (Steel--Testing)

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000

APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R0005

VORONOV, S.M., professor, doktor tekhnicheskikh nauk; YELAGIN, V.I., kandidat tekhnicheskikh nauk; GLADSHTEYN, L.I., inzhener.

Effect of zirconium, titanium and vanadium on the compressive effect in the aluminum alloys. Trudy MATI no.30:36-59 56. (MLRA 10:2) (Aluminum-zirconium-titanium alloys--Metallurgy)

BR0005

Games Congress

AUTHOR:

Gladshteyn, L.I., Engineer

135-12-6/17

TITLE:

Evaluation of the Mechanical Properties of Welded Joints by Calculation (Otsenka mekhanicheskikh svoystv metalla svarnykh shvoy raschetnym metodom)

shvov raschetnym metodom)

PERIODICAL:

Svarochnoye Proisvolatvo, 1957, # 12, p 21-25 (USSE)

ABSTRACT:

Thus far, the mechanical properties of weld netal in welded structures are checked by testing specimens cut from finished structures. The purpose of the described investigation was to find a way of preliminary evaluation of the mechanical properties of welds by calculation. The technology of experiments is described in detail. The calculations were based on the equation of the heat propagation in welding (Ref. 5; N.N. Rykalin, "The Thermal Basis of Welding"). A quantitative relation was found between the mechanical properties of weld metal and the rate of cooling within the subcritical temperature range. The established dependence of the cooling rate from various conditions (thickness of the joined metal, conditions of the welding process, initial temperature) and the interrelation between the ultimate strength of weld metal and the other properties (yield point, elongation, etc.) are shown by diagrams, nomograms, tables

Card 1/2

135-12-6/17

Evaluation of the Mechanical Properties of Welded Joints by Calculation

and equations. Steel "CT. 3", rimming and killed, was used as experimental material. The ultimate strength can be calculated by an equation and a table (equation 2 and table 2) for any definite practical case, provided the welding technology combinations and the steel grades are the same as were used in this investigation.

There are 8 diagrams, 2 nomograms, 6 tables and 6 Russian references.

ASSOCIATION: GPI "Proyektstal'konstruktsiya"

AVAILABLE: Library of Congress

Card 2/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 BR0005

AUTHORS:

Bat', A. A., Gladshteyn, L. I.

30-58-3-39/45

TITLE:

Questions of the Treatment of Refractory Alloys (Voprosy obrabotki zharoprochnykh splavov)

A Conference at the Institute for Engineering Sciences

(Soveshchaniye v Institute mashinovedeniya)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958

Nr 3

pp. 113-115 (USSR)

ABSTRACT:

Heat resistive alloys are at present being used in all branches of industry. In order to discuss problems are connected there with a conference was called on December 18th to December 21th

1957, by the Institute for Engineering Sciences and the Commission for Technology of Machine Building of the AS USSR; Work was carried out in plenary sessions and 4 sections (Casting, treatment under pressure, machining and welding) In numerous reports the specific properties of these alloys are investigated and new constructional solutions of machine parts requiring a new working technology were investigated. In the section dealing with castings (under the supervision

Card 1/3

of L. I. Fantalov, doctor of technical sciences) a report

Questions of the Treatment of Refractory Alloys A Conference at the Institute for Engineering Sciences

30-58-3-39/45

was made on vacuum smelting, as well as on the structural refining of cast steel. In the section on working under pressure (under the supervision of A. I. Tselikov, Corresponding Member of the AS USSR) thermomechanic regimes were dealt with, as well as the development of a modern technological equipment for the realization of high specific pressure. In the section on welding (under the supervision of G. A. Nikolayev, Corresponding Member. of the AS USSR) reports were delivered, among others on new methods of automatic welding in an atmosphere of carbonic acid gas, as well as on electric slag welding. In the section dealing with machining (under the supervision of A. I. Isayev, doctor of technical sciences) the production of cutting tools of particularly great durability was dealt with, in which case liquid carbonic acid is used as a coolant. Special attention was devoted to the problem of metal saving, because the various allog elements (nickel, chromium, columbium, titanium, cobalt, molybdenum, tungsten, boron, and others) are rare and expensive. Therefore

Card 2/3

Questions of the Treatment of Refractory Alloys
A Conference at the Institute for Engineering Sciences

30**-5**8-3-39/45

working methods are developed which permit a saving of Waste meterial (by accurate casting and punching, electric welding in a protective milieu). The following drawbacks were found to exist in the field of treatment of the heat-resistive alloys! Insufficient velocity of the solution of some practical problems, too little exchange of experience, the absence of a scientific coordination center. The following decisions were taken: Improvement of working methods in order to obtain a clean surface; development of new vacuum plants, mechanized furnaces, of steel qualities for punching work, of new electrodes; the working out of measures for the purpose of obtaining faultless welding-seams; the improvement of cutting processes: The congress also stressed the necessity of establishing a research coordination center at the Institute for Engineering Sciences of the AS USSR. At the same time an exhibition of scientific and of technical literature of Soviet and foreign origin dealing with this problem was held.

Card 3/3

BR0005

AUTHORS:

Bat', A.A., and Gladshteyn, L.'.

1117-11-58-4-11/35

TITLE:

Criteria for Evaluating Steel Promeness to Mechanical Aging (Triterii otsenki sklonnosti stali k mekhanichaskomu sta-

reni; u)

IMBIONICAL:

Standartizatslya, 1959, Dr. J. + 11 - 41 (man)

ALCTEACT:

The exicting methods of determining processes of steel to aging are not sufficient to explain the different causes of toughness or to recommend a deformation method for determining the proneness of steel to aging. It is necessary to develop a new method, based on a series of experiments with specimens which were investigated at different temperatures, both in their initial conditions and in conditions subsequent to aging. The value of the displacement of the critical interval of brittleness affected by cold hardening and annealing may serve as a quantitative criterion for determining steel processes to aging. There are 3 graphs.

ASSOCIATION:

GHT Proyektstal!kenstruktsiya

1. Steel--Mechanical properties

Card 1/1

BR0005

133-58-5-22/31 AUTHORS: Pridantsev, M. V., Doctor of Technical Science, Professor; Bat', A.A. Engineer, Sladshteyn, L. I., Engineer, and Levinzon, Kh. Sh.

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Heat-Treated Steel, St. 3kp. hrand, for Building attructures (Termiches.ci obs otennaya stal marki St. 3kp dlya TITLE:

stroitel nykh konstruktsiy)

PERIODICAL: Stal', 1958, Nr 5, pp 449-456 (USSR)

ABSTRACT: About 80% of steel used in the building industry consists of low carbon rimming steel St.3kp delivered in a hot rolled state with comparatively low mechanical properties. Therefore, some improvement of this steel by a heat treatment on the works is of particular importance. In the paper an investigation of the properties of the steel heat treated under works conditions (Nizhniy Tagil Combine) representative of the normal works output is described. Stell plates 1500 x 6000 mm. 12, 20 and 40 mm thick from two heats representative of the low and upper limits of carbon content were taken for the investigation (GOSI-300-50).

The composition in %: Mn Si  $\mathtt{Cr}$ Ni  $\mathbf{S}$ 0.47 0.14 .03 .03 traces 0.24 .025 .044 Card 1/5 0.19 0.54 .04 traces .02 0.25 .017 .033

Heat-Treated Steel, St. 34p brand for Building Structures

Two modifications of heat treatment were tested: hardening without annealing (heating to 930°C, soaking for 20 to 45 minutes, depending on the plate thickness, cooling in running water for 3 to 6 minutes, depending on the plate thickness, before dipping into water, the temperature of the plates usually fell to 840 to 880°C) and hardening with annealing (at 580 to 600°C for eight hours). Mechanical properties, tendency to mechanical ageing and weldability of the specimens cut from heat treated plates were investigated. Table 1 - mechanical properties of steel specimens cut from edges of plates as het rolled (GK), hardened (Z) and hardened and annealed (Z = 0); Table 2 =chemical composition and mechanical properties of heat treated steel specimens cut out some distance from the plate edges. Fig. 1, the dependence of the impact strength on the test temperature; Fig. 2 - the microstructure of hardened steel. A low tendency of ther mally treated carbon rimming steel to aseing is due to its low temperature of brittleness in the initial state. In order to check this view as well as to determine the impact strength

Card 2/5 at various temperatures before and after ageing depending

133-53-5-22/31

Heat-Treated Steel, St. 3cp brand, for Building Structures

on the conditions of thermal treatment a number of experiments were carried out with 12 mm thick plates. Specimens 260 to 80 mm were heated to 930 C. soaked at this temperature for 30 minutes and then cooled with four various velocities (Fig. 3). The microstructure of steel after all four types of thermal treatment is shown in Fig.4. The ascing action on steel after various thermal treatments was evaluated not only by changes in the impact strength at a few temperatures (+20 to -20°C) but also by the direct value of the shift of the critical temperature interval of brittleness. The dependence of the impact strength on the test temperature for the three cooling velocities A - with furnace, B in air and V in oil with the indication of the nature of fracture are given in Fig. 5; and the dependence of the temperature range of brittleness on the mean linear size of grain in Fig.6. In investigations of the weldability of Sv. 3kp steel hardened, in order to decrease its tendency to brittle destruction and to increase its strength, special attention was paid to retaining these properties. The influence of

Card 3/5 welling on the first property was evaluated from the impact

133-58-5-22/31

Head-Treated Steel, St. 3kp brand for Bulloin, Structified

strongth of the welder some and on the second property from tensile tests. The lependence of the impact strongth in the zone of wolding on the congumption of power per unit of length of welds is though in Fig. 8 and on the test resperators - Fig. 10. The results of tests of welded joints welled asnually and automatically are given in Table 3. The preparation of edges for relding is shown in Pig.9. Conclusions: Thermal pressures (hardening without annealing) of low carbon steel St.3kp for structural purposes is advantageous as the astal obtains increased strongth and lowered torderey to brittle fracture in comparison with the hot rolled steel of the same type. Plates of 12 to 40 mm thick hardened without ammeding possess the yield abrength not less than 30 kg/mm-, the impact strangth after mechanical ageing 4 to 8 kg cm and the threshold of brittleness not above -60°C. The beneficial influence of thereal treatment is a decrease in the bizs of ferrite grains during hardening. The mechanical properties of welded joints remain near to those of the metal itself. Card 4/5 Welding can be carried out under the same conditions as

133-58-5-22/31

Heat-Treated Steel, St. 3m out for Building Structures

for hot rolled steel. A more complete utilisation of the increased attrought of hardened carbon steel would be possible on development of special electrodes and electrode wire. During the production of hardened steel the upper limit of the earlier content should be limited. The steel investigated can be recommended for welded structures. The following participated in the work: from Nizhniy Tagth Combine: Ye. Z. Freydenson, L. A. Natutskaya, N. A. Chinikova, A. I. Arshinov, A. Ye. Berkeer, I. A. Burdina and from TaNTIChm:

I. M. Vyshveynyuk and Yu. I. Lebeday.

There are 3 tables, 10 figures and 5 references, all of which are Seviet.

ASSOCIATIONS: TeNIICHM and GPI loo, oktatel'konstruit diga

Card 5/5

BAT', A.A.; GLADSHTEYN, L.L.

Evaluating the tendency of steel to mechanical aging. Standartizatiia (MIRA 11:10)

1.Gosudarstvennyy proyektnyy institut Proyektstal'konstruktsiya. (Steel--Testing)

## "APPROVED FOR RELEASE: Tuesday, September 17, 2002

CIA-RDP86-00513R000 CIA-RDP86-00513R0005

307/32-21-10-26/70

AUTHORS:

Gladshteyn, L. I., Sekelovskiy, P. I., Rušchenke, A. V.

TITLE:

Investigation of the Mechanical Aging of Steel by the Method of Combining Real Expansion Diagrams (Insledevaniya mekhanichaskas stareniya stali metodom sovmeshcheniya istinnykh diagrams

rastyazheniya)

PERIODICAL:

Zavodskaya Laberatoriya, 1958, Vol 24, Nr 10, pp 1236-1239 (USSR)

ABSTRACT:

The present standard method of classifying the aging tendency of steel (GOST 5520-50) is based on measuring the resilience of the steel at room temperature (Refs.,2) and does not make possible a quantitative classification. In the present method the expansion curve of the same steel obtained after cold hardening and aging is plotted on the expansion curve of the steel (in the initial state) plotted according to real values of the coordinates deformation - stress. This method makes possible differentiation between the hardening effect caused by aging and that caused by cold hardening. This method is practical in that no complicated samples are needed, and simple apparatus as, for instance, the testing machine IM, -4 A can be used. The technique employed is described and a graph of the diagrams

Card 1/2

"APPROVED FOR RELEASE: Tuesday, September 17, 2002 CIA-RDP86-00513R000 APPROVED FOR RELEASE. Tu BR0005

Investigation of the Mechanical Aging of Steel by the Method of Combining Real Expansion Diagrams

> obtained in testing the steel samples type MSL3 (0,14% C 0,44% Mn, 0,055% Si, 0,037% S and 0,031% P) is given. Also diagrams of the tests of steel samples of type MSt. 3 hardened at 930° in oil as well as of those scoled in the furnace are given. It was found that the natural and the artificial aging of a cold hardened steel are of a different character. In cortrac. to the present ideas regarding the aging of carbon steels a quick cooling from the austenite state does not decrease the tendency to mechanical aging. There are 3 figures and 5 references, which are Soviet.

ASSOCIATION: Institut "Proyektstal'konstruktsiya" i Tsentral'nyy maachn. issledovatel'skiy institut stroitel'nykh konstruktsiy ("Proyektstal'konstruktsiya" Institute and Central Office of the Scientific Research Institute for Building Constructions)

Card 2/2