

KOLDOBSKIY, A.G.; MEDVEDEV, S.I.; PISKOPFEL', F.G.; YAKOBSON, M.G. Prinimali uchastiyey: BERKHIN, I.B.; OSLIKOVSKAYA, Ye.S.; FEKISLOVA, A.M.; LITVIN, V.M.; PARKHOMENKO, Ye.V.; STOTIK, A.M.; SHAPIRO, T.I.; STRUMILIN, S.G., akad., glav. red.; ALEKSENKO, G.V., red.; ANISIMOV, N.I., red.; VOLODARSKIY, L.M., red.; GERSHBERG, S.R., redaktor; red.; PETROV, A.I., red.; POSVYANSKIY, S.S., red.; BAZAROVA, G.V., kand. ekonom. nauk, starshiy nauchnyy red.; KISEL'MAN, S.M., starshiy nauchnyy red.; LIVANSKAYA, F.V., kand. ekonom. nauk, starshiy nauchnyy red.; GLAGOLEV, V.S., nauchnyy red.; NEDBAYEV, V.I., nauchnyy red.; TUMANOVA, N.L., nauchnyy red.; TOVMASYAN, M.E., red.; BLAGODARSKAYA, Ye.V., mladshiy red.; SHUSTROVA, V.M., mladshiy red.; ZENTSEL'SKAYA, Ch.A., tekhn. red.

[The economic life of the U.S.S.R.; chronicle of events and facts, 1917-1959] Ekonomicheskaya zhizn' SSSR; khronika sobytii i faktov 1917-1959. Glav. red. S.G.Strumilin. Chleny red. kollegii: Aleksenko i dr. Moskva, Gos. nauchn.izd-vo "Sovetskaya entsiklopediya," 1961. 779 p. (MIRA 14:10)

1. Tsentral'naya nauchnaya sel'skokhozyaystvennaya biblioteka Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. Lenina (for Litvin, Parkhomenko, STOTIK, Shapiro). (Russia--Economic conditions)

ЖУРНАЛ, N. 1.

"Water and Heat Balance of Small Watersheds for a Period of One Year
(The Territory Between the Rivers Khor and Melvelitsa)." Card Phys-Math
Sci, Leningrad Order of Lenin State U Ireni A. A. Andanov, Leningrad, 1955.
(RU, No 17, Apr 55)

10: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (16).

GOL'DENBERG, I.L., inzh.; ISAKOVSKIY, I.G., ekonomist; BEREZIN, B.P.,
inzh.; STOTIK, V.S., inzh.; VOROB'YEVA, L.V., tekhn.red.

[Economic efficiency of capital investments and new machinery in
transportation construction] Ekonomicheskaya effektivnost'
kapital'nykh vlozhenii i novoi tekhniki v transprotnom
stroitel'stve. Moskva, Vses. izdatel'sko-poligr. ob'edinenie
M va putei soobshchenia, 1962. 233 p. (Bubushkin, Vsesoiuznyi
nauchno-issledovatel'skii institut transportnogo stroitel'stva.
Trudy, no.43). (MIRA 16:2)

(Transportation--Buildings and structures)

PLANO / Microbiology, Human and Animal, Printed at
Copenhagen.

The Jour. Nat. Hist., No 2, 1974, 3623.

Author : Choudhury, J. P. Prasad, et al. Kolkata, India
1974

Host : Man
Title : Characteristics of Dengue Virus Isolates from
Various Regions During the 1969-74 Epidemic in
the City of Kolkata.

Orig Publ. Pringl. 1974, 11, 20 4, 311-363.

Abstract: The properties of 296 dengue virus isolates
typed from 253 patients in the city of Kolkata
which had either convalesced to dengue fever
or dengue haemorrhagic fever during the epidemic
of 1969-74 were studied. Of the strains,
55.4% were of the gravis type, 26.2% were of

Card 1/3

30

Abstract: The characteristics of the 1974 dengue virus
isolates (serotype 4) were studied. In certain respects,
1974 isolates are similar to the 1969-74 isolates, but
intermediate type; in 1974, 87% of the isolates
were not distinguishable. The serological study of
1974 cases showed that the prevalence of the
intermediate type, or 1974 strains isolated from 1974
cases in 1974, was about 10%. The 1974 isolates
10.5% "intermediate" strains were found to be
comparing the evolution and distribution of 1974
isolates with those of 1969-74. The 1974
isolates showed a high degree of genetic
heterogeneity. It is concluded that the 1974
isolates are the 1974 strain. In 1974, the

Card 2/3

Abstract: Predominance of the "intermediate" or "atypical"
dengue virus (serotype 4) type is becoming a
transitional stage toward the gravis type.
Evolution of strains can be a certain degree
depend on immunization of the population, im-
ping to survival of more toxic strains, which
most commonly belong to the gravis type.
M. A. Gubruna.

Card 3/3

30

STETLAND, Ya.G., inzh.

Automatic control circuits for regulating flow rate ratio of two
liquids. Makh.i avtom.proizv. 18 no.3:22-24 Mr '64.
(MIRA 17:4)

Hydrometeorological basis of the production of salt and
concentrate on the Okhotsk Sea coast. A. M. Batakhin
A. M. Batakhin. *Trudy Dal'nego Vostoka*, 1957, No. 4,
p. 100-101. (Sov. Mus. J. 1957, No. 1,
p. 100-101.)

Handwritten: 0.12/10 2

STOTSENKO, A.V.; BATALIN, A.M.

Hydrometeorological conditions for the recovery of salt on
the Sea of Okhotsk coastal region. Trudy Dal'nevost.fil.AN
SSSR. Ser.khim. no.2:20-42 '56. (MLRA 10:2)

(Okhotsk region--Salt industry) (Sea water)

STOTENKO, A.V., red.; KALASHNIKOV, L.P., tekhn.red.

[Collection of papers on problems of seasonally frozen soils]
Sbornik materialov po voprosam sezonnoi mrazloty. Vladivostok,
1957. 69 p. (MIRA 12:2)

1. Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok.
(Frozen ground)

22(1)

FRASE I BOOK EXPLOITATION

09/319

Akademiya nauk SSSR. Dal'nevostochnyy filial imeni V.I. Komarova

Nauka na Dal'nem Vostoke (Science in the Far East) Vladivostok, 1967. 111 p.
1,000 copies printed.

Editorial Committee: Ye.A. Bohn, V.T. Bykov (Resp. Ed.), D.V. Girnik,
A.V. Stotsenko (Deputy Resp. Ed.), Z.G. Onisimova, A.A. Tavid,
P.D. Yaroshenko; Tech. Ed.: L. Kalashnikov

PURPOSE: This collection of articles is intended for the general reader interested in the status of scientific studies and research in the Soviet Far East.

COVERAGE: These articles review scientific achievements which have contributed to the economic development of the Soviet Far East. The creation of the first university in the Far East and of the Far East Branch of the Academy of Science is discussed. Studies in the history, geology, geophysics, chemistry, biology, and economics of the region are discussed and a great number of scientists and their contributions mentioned. Stress is laid on the progress of the geological survey carried out in the southern part of the Far East and the consequent

Card 1/3

Science in the Far East

SOV/3138

discovery of coal, silver, lead, gold and petroleum. In addition to studies of the subsurface wealth, works on the vegetation and forest are also presented. Numerous references are incorporated in the text.

TABLE OF CONTENTS:

Far East Branch imeni V.L. Komarov of the Academy of Sciences, USSR, is Twenty Five Years Old	3
Khetchikov, L.N. Geological Survey in the Southern Part of the Far East During the Thirty Five Years of Soviet Rule	7
Ozhigov, Ye.P. Development of Chemical Studies in the Far East	21
Stetsenko, A.V. Development of Technical Sciences in the Far East Under Soviet Rule	39
Kolesnikov, B.P. Historical Review of the Study of Vegetation in the Far East (1639 - 1957)	51

Card 2/3

Science in the Far East

30V/3135

Belikov, I.F., and V.A. Tyrina. From the History of the Study of the Biochemistry and Physiology of Plants Growing in the Primorskiy Krai

74

Kurentsov, A.I. Results of Zoological Studies in the Far East During the Last Forty Years

79

Tonashvskiy, V.V. Historical Sciences in the Soviet Far East

89

AVAILABLE: Library of Congress (Q180.R9A55)

Card 3/3

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2-24-60

STOTSENKO, Aleksey Vasil'yevich

[Problems of the Amur River and its largest tributaries; the
Zeya, Bureya, Sungari, and Ussuri rivers] Problema reki Amura
i ego krupneishikh pritokov; Zei, Burei, Sungari, Ussuri.
Vladivostok, Primorskoe knizhnoe izd-vo, 1958. 62 p.
(Amur River) (MIRA 13:5)

3(5) PHASE I BOOK EXPLOITATION SCW/7910

Akademiya nauk SSSR, Dal'nerevodnyy filial, Vladivostok, Institut geografii.

Materialy po fizicheskoj geografii yuga Dal'nego Vostoka: Pribluzhnyyaya razvitiya i prilozhnyyaya k nej raznyy Primorskoy kraya (Physical Geography of the Southern [Soviet] Far East; Khanka Kraevy, 1958, 203 str., 1,300 copies printed).

Resp. Eds.: B.P. Kolesnikov, Doctor of Biological Sciences, G.D. Nikher, Doctor of Geographical Sciences, Professor, and V.V. Nikol'skaya, Candidate of Geographical Sciences; Ed. of Publishing House: P.K. Lavun, Tech. Ed.: Ye. V. Markov.

PURPOSE: This book is intended for geographers interested in the physical geography of the Primorsky Krai (Maritime Provinces).

CONTENTS: These articles deal with various aspects of the physical geography of the Primorsky Krai, particularly the Sagrenno-Dzhan-kayskaya plains. A paleogeographic study of the Ssurui valley

is given, as is a general treatment of the hydrography and climate of the Pribluzhnyyaya (Khankay) plain. Information is provided on the non-metallic minerals of the plain and the rocks available for construction purposes. References accompany each article.

✓ Stolomko, A.Y. A Climatic Outline of the Pribluzhnyyaya Pribluzhnyyaya Territories	101
✓ Sokolov, I.P. Dry Winds Sweeps as a Climatic Feature of the Purov-steppe Landscape of the Pribluzhnyyaya Plain	131
✓ Stolomko, A.Y., V.G. Chernenko. A Hydrogeographic Description of the Rivers of the Pribluzhnyyaya Plain and Those of Contiguous Regions	162
✓ Stolomko, A.Y. Floods in the Primorsky Krai	179
✓ Burmatov, A.Y. Animal Life in the Pribluzhnyyaya Plains	254
WILLIAMS: Library of Congress (S125.A15)	273

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6-19-59

Card 1/3

⑤

Michael, W., et al., for ...

The ... control and
indicated ... 1:51-59 '59. (1/1 14:2)
(AIR ... control)
(AIR ...)

STOISENKO, A.V., prof., doktor geogr. nauk, red.; VOROB'YEV, D.P.,
kand. biol. nauk, red.; FEDOROVA, V.V., tekhn. red.

[Materials on the natural resources of Kamchatka and the Kurile
Islands] Materialy po prirodnykh resursam Kamchatki i Kuril'skikh
ostrovov. Pod red. A.V.Strotsenko i D.P.Vorob'yeva. Magadan,
Magadanskoe knizhnoe izd-vo, 1960. 165 p. (MIKA 15:4)

1. Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok.
(Kamchatka—Natural resources)
(Kurile Islands—Natural resources)

CHEKOFILLO, A.M.; TSVID, A.A.; MALAROV, V.N.; STOTSEKHO, A.V., prof.,
doktor geograf.nauk, otv.red.; OVECHKINA, L.S., red.; FILATOVA,
G.M., tekhn.red.

[Iceings in the U.S.S.R. and their control] Naledi na territorii
SSSR i bor'ba s nimi. Blagoveshchensk, Amurskoe knizhnoe izd-vo,
1960. 204 p. (MIRA 13:12)

(Ice)

... STIVILENEV, V.V., prof., doktor geografičeskiki nauk; CHERVENKO, V.G.,
kand. tekhn. nauk

Brief survey of research on the development of water resources in
the basin of the Ussuri River. Amur stor. no.2:20-32 '60.
(MIR, 15:3)
(Ussuri River--Water resources development)

STOPSSENKO, A.V.

Far Eastern Institute of Construction. Izv. ASIA no. 3:139 '60.
(MIRA 13:12)

1. Direktor Dal'nevostochnogo instituta po stroitel'stvu.
(Soviet Far East--Building research)

STOTSENKO, A.V.

Climatology and its significance in the construction
industry. Sbor. nauch. rab. DVNIES no.1:37-44 '61.
(MIRA 16:11)

CHEKOTILLO, A.M., kand. tekhn. nauk; TSVID, A.A., kand. tekhn. nauk;
STOTSENKO, A.V., doktor geogr. nauk, prof., red.; STRASHNYKH,
V.P., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Recommendations for controlling ice formation] Rekomendatsii po
bor'be s nalediami. Utv. Gos.komitetom Soveta Ministrov RSFSR po
delam stroitel'stva 23 iyunia 1962.g. Moskva, Gosstroizdat,
1962. 41 p. (MIRA 16:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva.

(Ice on rivers, lakes, etc.)

(Civil engineering--Cold weather conditions)

... ..

building dams across the Bering, Tatar, and other straits.
Star. nauch. rab. IZMIRAN no. 3:94-98 162. (MIRA 17:5)

1971, 1972, 1973, 1974, 1975.

Natural conditions determining the irregularity of the
discharge of rivers in the Missouri Basin and floods caused
by them. Star. muzh. rab. 1971 no. 1, 99-100, 102.

(MIR) 1971

SEVTSHEVA, A. V., TSVID , A. A., URBEV, G. B., VEGELOV, V. N., BOGOSLOVSKIY, P. A.,

"Data in areas of distribution of permanently frozen rocks"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ.,
Lafayette Indiana, 11-15 Nov 68

STOTSENKO, Ye. D.

Mbr., 1st Sanatorium, Health Resort, All-Union Central Council Trade Unions, Sosnovka,
Kiev Oblast, -c1949-. "Results Obtained from Pneumoperitoneum in a Sanatorium," Prob.
Tuber., No. 3, 1949.

STOTSIX, N.L.; ORLOVA, T.O.

Correlation of hypertension and nephropathy in pregnancy. *Klin.med.*,
Moskva 23 no.5:47-52 May 50. (CLML 19:4)

1. Of the Faculty Therapeutic Clinic (Director -- Honored Worker in
Science Prof. E.M.Gal'shteyn) and of the Obstetric-Gynecological
Clinic (Director -- Prof. I.I.Feyzel'), Second Moscow Medical Institute
imeni I.V.Stalin, Moscow.

STUTSIK, N.L. (Moskva)

Acute pancreatitis. Med. sestra 20 no.10:25-29 0 '61. (MIRA 14:12)
(PANCREAS—DISEASES)

USSR/Physical Chemistry - Colloidal Chemistry. Disperse Systems, B-14

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 621

Author: Stetsko, L. L.

Institution: Moscow Institute

Title: Colloidal properties of Nickel Pyrophosphate

Original
Periodical: Sb.: 10-aya nauch.-tekhn. konferentsiya, 1955 (Nauch. stud. o-vo
Mosc. natl. inst). Leningrad, Gostoptekhizdat, 1956, 129-136

Abstract: The stable properties of nickel pyrophosphate are described. The dependence of the ultimate yield value (θ) on the time (τ) was measured. It is shown that the curve $\theta = f(\tau)$ has a maximum, the magnitude and position of which depend on the concentration of the dry substance and the pH of the medium. Mechanical degradation of the structure sharply increases the strength of the system when carried out before the occurrence of a maximum in the θ curve; mechanical structure degradation carried out after the occurrence of the maximum reduces the capacity of the system to restore the original structure.

Card 1/2

USSR/Physical Chemistry - Colloid Chemistry. Disperse Systems, B-14

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 621

Abstract: Synereisis was observed together with the reabsorption of the synthetic liquid. The charge on the nickel pyrophosphate particles is negative.

Card 2/2

TOPCIEV, A. V. [Topchiyev, A. B.]; KRENTEL, B. A. [Krentsel', B. A.];
STOTKAIA, L. L. [Stotskaya, L. L.]

Complex organometallic compounds, catalysts of olefin polymerization.
Analele chimie 16 no.4:64-99 O-D '61.

(Organic compounds) (Olefins) (Catalysts)
(Polymers and polymerization)

TOPCHIIYEV, A.V.; KRINTSEL', B.A.; STOTSKAYA, L.L.

Complex organometallic compounds as catalysts in the polymerization
of olefins. Usp. khim. 30 no. 4:462-492 Ap '61. (MIRA 14:4)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Olefins) (Catalysts) (Polymerization)

S/191/62/000/012/001/015
B101/B186

AUTHORS: Topchiyev, A. V., Stotskaya, L. L., Krentsel', B. A.
TITLE: Polymerization of ethylene and some other vinyl monomers
with soluble catalyst systems
PERIODICAL: Plasticheskiye massy, no. 12, 1962, 3-12

TEXT: This is a review article covering papers published between 1948 and 1962 on the reaction mechanism of the polymerization of ethylene, propylene, isoprene, butadiene and other dienes with soluble Ziegler-Natta-type catalysts. It is pointed out that the reaction medium considerably affects the course of polymerization when soluble metallo-organic complexes are used. From a theoretical aspect, based on the findings of the research it is assumed possible to simulate biological processes with the aid of soluble organic catalysts. There are 2 figures, 11 tables, and 44 references.

Card 1/1

STOENKAYA, L.L.; KRENTSEL', B.A.

New data on the mechanism of ethylene polymerization in the presence
of a soluble catalytic system — $\text{Sn}(\text{C}_6\text{H}_5)_4 \downarrow \text{AlBr}_3 \downarrow \text{VCl}_4$. Dokl.
AN SSSR 151 no.3:595-596 J1 '63. (MIRA 16:9)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Ethylene) (Polymerization) (Catalysis)

ACCESSION NR: 22402402

S/0204/64/004/001/0043/0052

AUTHORS: Stetskaya, L.L.; Leshcheva, I.P.; Krentsel', B.A.

TITLE: Investigation of the ethylene polymerization reaction in the presence of the soluble catalyst system Sn (C H) - AlR₃ - VCl

SOURCE: Neftekhimiya, v. 4, no. 1, 1964, 43-52

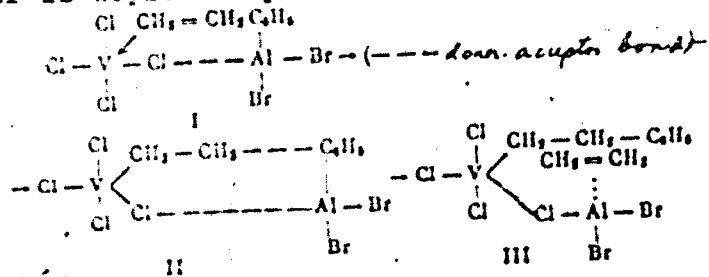
TOPIC TAGS: ethylene, polymerization, polymerization catalyst, Ziegler catalyst, soluble catalyst system, vanadium containing catalyst system, catalyst mechanism, polyethylene, catalyst component ratio, linear polymer, crystalline polymer, crystalline polyethylene, molecular weight distribution, electron microscope, polyethylene monocrystal, propylene polymerization, vanadium tetrachloride containing catalyst, tin tetraphenyl containing catalyst

ABSTRACT: The polymerization of ethylene in the presence of the soluble catalyst system was investigated to explain the mechanism of the catalyst action and the characteristics of the polymer obtained. Examination of the catalyst component ratios indicated that a 1:1 ratio of AlR₃:Sn(C₆H₅)₄ results in a practically inactive catalyst;

Card 1/4

ACCESSION NR: AP4024402

its activity increases up to a 2:1 ratio and remains fairly constant thereafter. Interaction between these components is depicted by:
 $2AlCl_3 + 2C_2H_5Br \rightarrow 2AlCl_2Br + Sn(C_6H_5)_2Br_2 + AlBr_3$, where $AlBr_3$
 in excess of 2 moles remains unreacted. Very small amounts of $VOCl_4$
 are used since an excess causes dearylation of the aluminum-
 complex. With 1.0 x 10⁻³ millimoles $VOCl_4$ a 25% yield of high
 viscosity (1.80) polyethylene is obtained; with 0.03 millimoles the
 yield is similar but the viscosity of the material has dropped to
 1.30; and with 0.06 millimoles the yield suddenly drops to 5% and
 the viscosity to 1.10. The second stage of forming the active
 catalyst complex between $AlCl_3SnBr_2$ and $VOCl_4$, which appears to require
 the presence of monomer is depicted by:



Card 2/4

ACCESSION NR: A14024402

An investigation of the properties of the obtained polyethylene shows it is strictly linear, has a high degree of crystallinity, a high fusion temperature and very narrow molecular weight distribution. An electron microscope study of the supermolecular structure disclosed the presence of monocystals in unfractionated polyethylene, confirming that groups of polymeric chains are uniform not only in structure but in the size of the structural units. By comparing the properties of polyethylene obtained with dissolved catalyst systems (i.e., the system discussed and solid system with $TiCl_4$), and the conventional heterogeneous Ziegler catalyst and the latter containing the transition metal salt VCl_4 , led to the conclusion that the chemical structure of the polyethylene macromolecule is not determined by the stability of the polymerization catalyst but by the nature of the active growth center of the polymeric chain. Polymerization of propylene was unsuccessful under the various conditions favorable to ethylene polymerization. "Spectra were taken in collaboration with the laboratory of L. S. Polak in the Institute of Nuclear Physics, NGU". "Electron microscope investigations at electron

Card 3/4

ACCESSION NR: AP4024402

optical magnifications from 2000x to 30000x were conducted at the Kurgova Physico-Chemical Institute by N. V. Konstantinopol'ski, to whom the authors express thanks." Orig. art. has: 5 figures, 4 tables and 3 equations.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR im. A. V. Topchiyeva (Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 09Jul63

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: CH

NR REF SOV: 008

OTHER: 003

Card 4/4

5/22/60/135/004/026/037
B316/B066

AUTHOR: Petrovskiy, K. Yu., and Strizakaya, M. P.

TITLE: Decomposition of Geminal Vinyl Ethers and of Dioxane-1,4 by
Action of Org. Lithium

JOURN. J. Chem. Soc. Chem. Commun. USSR, 1959, No. 4, pp. 868-870

TEXT: The authors studied the decomposition of vinyl ethyl- and vinyl isopropyl ether as well as dioxane-1,4 with butyl lithium. They detected acetylene in the gaseous decomposition products of the first three compounds. All operations were carried out in a nitrogen current free of oxygen and water traces which was also periodically bubbled through the reaction mixture for agitation purposes. The quantitative determination of acetylene was made by the argentometric method (Ref. 7). After expiration of the given period of time from the beginning decomposition the reaction mixture was treated with ethanol. The authors found that the principal quantity of acetylene appeared during this treatment. They conclude from this fact that the decomposition reaction may be expressed by the following scheme: $R-O-CH=CH_2 + LiR \rightarrow R-O-Li + CH \equiv CH + RH$.

Card 1/1

Decomposition of Some Vinyl Ethers and
Hexane-1,1 by Means of Butyl Lithium

8/22/68/MS/104/226/037
216/B 44

$CH_2=CH-R + LiR \rightarrow Li-CH_2-CH_2-R$ The lithium acetylene reacts with butyl lithium and forms an acetylene which decomposes only after ethanol addition and again releases acetylene. In this reaction also butane was found to occur. Methylalum glycolate was found in the decomposition products of hexane-1,1; its constants are given. In addition give the enclosed scheme for the case of hexane, which includes a derivative of vinyl ether as an intermediate. It is known that the vinyl ethers and hexane-1,1 regulate the molecular weight in the polymerization of mono hydrocarbons by means of alkali metals and organic compounds of these metals (Ref. 9). The authors explained this fact on the basis of their results in the way that the growing polymer chain actually presents an organic compound of the alkali metals. It reacts with the ether and hexane-1,1 and causes the release of acetylene. Acetylene reacts with the active centers of the growing chain and deactivates them, with low molecular products being formed. Therefore, the authors consider the use of hexane as solvent in the synthesis and in the storage of organolithium compounds as suitable. There are 1 table and 2 references: 1 Soviet, 1 US, and 1 German.

Card 1/1

Decomposition of Some Vinyl Ethers and of
Dioxane-1,4 by Means of Butyl Lithium

S/020/60/135/004/026/037
B016/B066

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
kauchuka im. S. V. Lebedeva (All-Union Scientific Research
Institute of Synthetic Rubber imeni S. V. Lebedev)

PRESENTED: June 28, 1960, by A. N. Nesmeyanov, Academician

SUBMITTED: June 27, 1960

Card 3/4

S/079/60/030/006/026/033/XX
B001/B055

AUTHORS: Stotskiy A. A. and Gorbunova, S. L.

TITLE: A New Synthesis of Crotyl Amine ¹

PERIODICAL: Zhurnal obshchey khimii. 1960, Vol. 30, No. 6,
pp. 1985 - 1986

TEXT: Crotyl amine was prepared by reducing croton-aldoxime with sodium amalgam (Ref.1), lithium aluminum hydride (Ref.2), by splitting the hydrogen halide from the corresponding halogenated butyl amines (Refs. 4-6) and by the Gabriel method (Refs. 3,7,8). Particular mention must be made of the synthesis of pure cis- and trans-crotyl amine (Ref.9). In the present publication, the authors describe a simple method of synthesizing pure crotyl amine similar to the preparation of allyl amine described in Refs. 11 and 12. The salt obtained by reacting crotyl bromide with hexamethylene-tetramine was hydrolyzed in an alcoholic medium using hydrochloric acid. Crotyl-amine hydrochloride was converted to the free amine. In a methylene chloride solution, the salt

Card 1/2

A New Synthesis of Crotyl Amine

S/079/60/030/006/026/033/XX
B001/B055

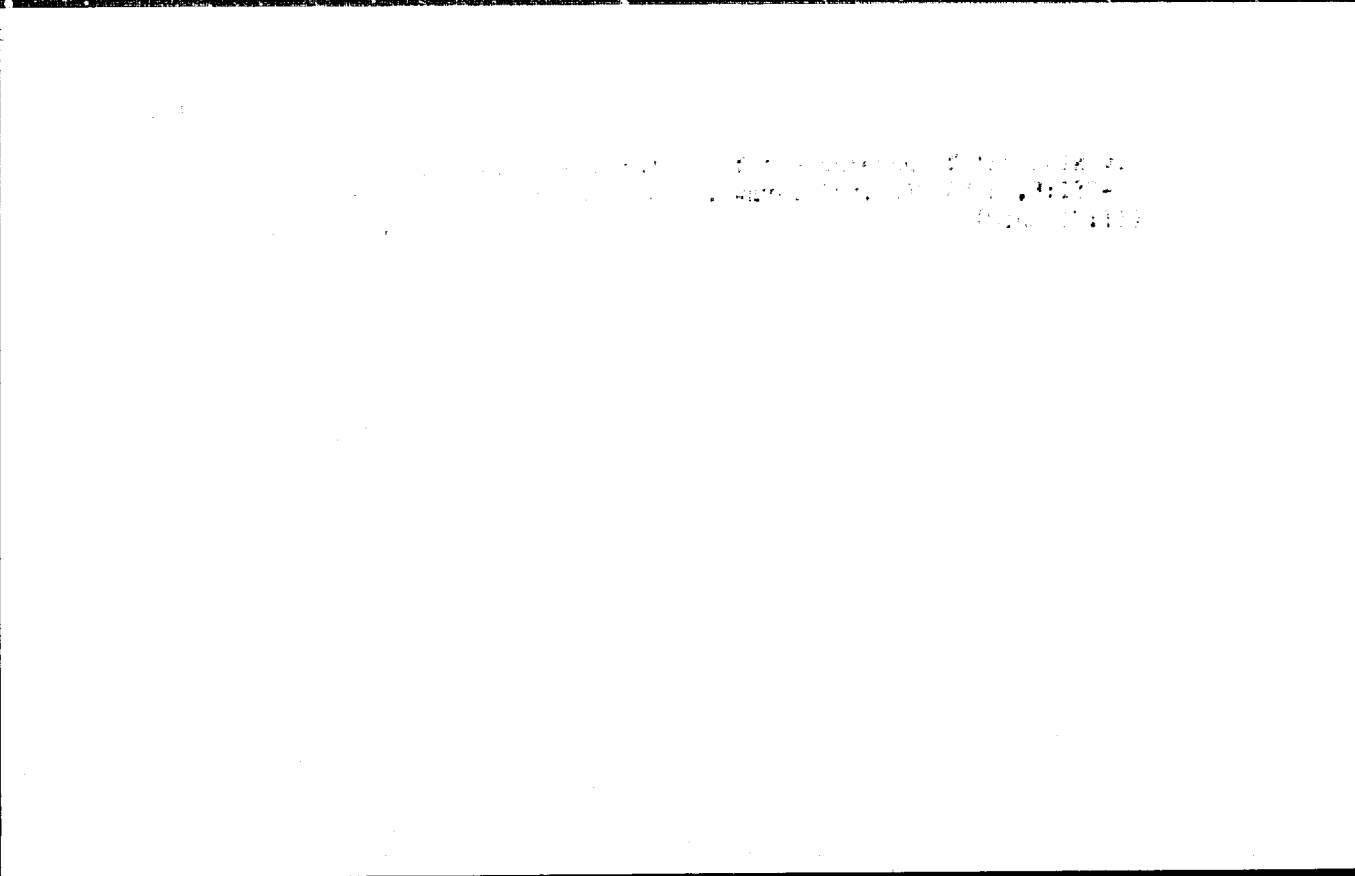
was obtained in 90% yield; in chloroform, however, only in 30% yield, probably due to the higher solubility of hexamethylene-tetramine in chloroform than in methylene chloride. The reaction in chloroform is more vigorous and probably accompanied by side reactions. There are no non-Soviet references.

ASSOCIATION: Leningradskiy tekhnologicheskii institut imeni Lensovet
(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: May 25 1959



Card 2/2



STOTSKIY, E.D. (Moskva)

Descriptive theory of games. Probl.kib. no.8:45-54 '62.

(MIRA 16:4)

(Games, Theory of)

L 32-01-01 MTU(1) / 20- Po-1/Tq-4/Vg-4/TK-L MF(c) PR/00/05
ACCESSION NR: AT5004140 S/0000/04/000/000/0018/0022

AUTHOR: Stotskiy, E.D.

45
B+1

TITLE: The number of non-oriented trees

SOURCE: AN SSSR. Institut nauchnoy informatsii. Informatsionnyye sistemy (Information systems). Moscow, 1954, 18-22

TOPIC TAGS: computer memory, coding, tree coding, nonoriented tree

ABSTRACT: The author gives a new upper estimate for the number of topologically different trees which may be composed of n sides, and outlines a simplified system for the coding of trees. The problems discussed in this paper are of importance in the selection of the most economical arrangement of information having the character of graphs in a machine memory unit. A proper understanding of the considerations analyzed in the article requires that the reader be familiar with the work of G. Polya (Kombinatorische Anzahlbestimmungen fuer Gruppen, Graphen und chemische Verbindungen, "Acta Math.", 1937, 38, 1-11, 253), from which the author quotes the fact that the number D(n) of non-oriented trees composed of n sides lies within the limits

$$e^{1/n} \leq D(n) \leq 4^n$$

Card 1/2

L 32593-66

ACCESSION NR: AT5004140

The author notes that these estimates are derived from the investigation of the generating function for trees, and that, in principle, upper estimates can be obtained on the basis of certain methods of tree coding which permit unique decoding. In a case of this kind, the number of different codes will not be less than the number of trees; consequently, if the number of codes can easily be estimated from above, this estimate will simultaneously constitute the upper estimate for the number of trees. By way of example, the author considers a system of coding of maximum simplicity in an alphabet $\{0, 1\}$, leading to the estimation $D(n) < 4^n$, and proceeds to the coding of trees directionally orientated away from a certain segregated apex called the root. An auxiliary system for coding oriented trees with root in an alphabet $\{0, 1, 1\}$ is introduced. By means of this system, trees of a special class (called "S-trees") are coded. In the concluding section of the article, the author applies this S-tree coding method to the task of coding arbitrary trees. Orig. art. has 7 formulas and 3 figures.

ASSOCIATION: none

SUBMITTED: 08Oct64

ENCL: 00

SUB CODE: DP

NO REF SOV: 001

OTHER: 002

Card 2/3

SECRET, U. S.

PA 10/49786

U.S.S.R./Engineering
Turbines, Gas
Engines - Combustion

Aug 48

"A Generalization of the Theoretical Cycle of Internal Combustion Engines and Gas Turbines," L. R. Steetskly, *MNI Izvestiia Gubkin*, 5 3/4 pp

"Zhurget Byul" No 8

General theoretical discussion. Describes Otto cycle explains new cycle devised by Prof N. I. Belokon' (Moscow Petroleum Inst Izvestiia Gubkin) applicable to both piston engines and gas turbines. Deduces equation for efficiency of cycle. Shows that other

10/49786

U.S.S.R./Engineering (Contd)

Aug 48

cycles (Otto, Diesel, etc.) may be regarded as special cases of Belokon' cycle. Efficiency of Otto cycle stated to be less than that of Belokon' cycle.

10/49786

STETSKIY, L. R.

Kochegar neftiyuki i gazovyy promyslov. Moskva, Gostoptekhnizdat, 1949.
142 p. 4 illus.

(V pomekhnov'nykh kladram neflianoi promyslenosti)

Bibliography: p. (141)

(Stokers in petroleum and gas industries.)

DLC: TJ320.S8

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

Technology, S. S.

Technology

Heat-generating system in oil and gas industries, Moskva, Gosoptekhnika', 1961.

Monthly List of Russian Accessions, Library of Congress, December 1962. Unclassified.

Sten. Tellers

Letter to the editor of "Energeticheskii biulleten".; Energ.bul. no. 12, 1991.

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

11(2,4)

PHASE I BOOK EXPLOITATION

SOV/2823

Stotskiy, Lev Rudol'fovich

Teplosilovoye khozyaystvo predpriyatiy neftyanoy i gazovoy promyshlennosti (Heat-Power Economy of Oil and Gas Industry Enterprises) Moscow, Gostoptekhizdat, 1959. 552 p. Errata slip inserted. 4,650 copies printed.

Executive Ed.: Ye. A. Shakhmayeva; Tech. Ed.: E. A. Mukhina.

PURPOSE: This textbook is intended for tekhnikum students specializing in heat generation, utilization and consumption, or in the designing of the heat power equipment used at refineries and oil fields. It will also be useful to other specialists concerned with heat energy problems.

COVERAGE: The book deals with the generation and consumption of heat and presents the fundamentals of engineering turbines and other heat power equipment. It analyzes in detail the consumption of steam, hot water, and heat by various processing units, boilers, pumps, compressors, drilling rigs, and other machines, and the

Card 1/10

Heat-Power (Cont.)

SOV/2823

amount of heat required to heat petroleum industry buildings and installations. Sample calculations for determining heat consumption of different machines are given. Different internal combustion engines used in oil fields and refineries are examined and the trend toward converting liquid fuel engines into gaseous fuel engines is pointed out. Heat exchangers, heat transformers, heat pumps, and other heat generating and supplying units are reviewed. Thermal insulation materials and insulation systems are also dealt with. No personalities are mentioned. There are 51 Soviet references.

TABLE OF CONTENTS:

Ch. I. Characteristics of Enterprises of the Petroleum and Gas Industry as Consumers of Energy	3
1. Consumption of energy at petroleum refineries	4
2. Consumption of energy in drilling oil and gas wells	15
3. Consumption of energy in petroleum and natural gas production	17

Card 2/10

STOISKIY, Lev Iudol'fovich; RASOVA, G.V., ved. red.; SVYATITSKAYA, K.P.,
ved. red.; FEDOTOVA, I.G., tekhn.red.

[Fireman for boilers using liquid or gas fuel] Kochegar kotel'nykh
na zhidkom i gazoobraznom toplive. Moskva, Gos.nauchno-tekhn.izd-vo
neft.i gorno-toplivnoi lit-ry, 1960. 325 p (MIRA 14:12)
(Boilers--Firing)

KALASHNIKOV, N.V.; STOTSKIY, L.R.; GLINER, B.M. [deceased]; DOBRYNINA, N.P.; DUBROVSKAYA, Kh.A.; YEZDAKOVA, M.L.; LYUBIMOV, N.G.; PONOMAREVA, K.A.; REYKHTSAUM, P.B.; SMIRNOV, V.I.; SUSHKIN, I.N.; SHAKHMAYEVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Units of measurement and abbreviations of physical and technical values; manual for editors and writers] Edinitsy izmereniya i oboznacheniya fiziko-tekhnicheskikh velichin; spravochnik dlia rabotnikov izdatel'stv i avtorov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 254 p. (MIRA 14:9)

1. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo neftyanoy i gorno-toplivnoy promyshlennosti (for Kalashnikov, Dobrynina, Smirnov). 2. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina, (for Stotskiy). 3. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo Ministerstva promyshlennosti i prodovol'stvennykh tovarov (for Dubrovskaya). 4. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo literatury po chernoy i tsvetnoy metallurgii (for Yezdakova, Sushkin). 5. Gosgortekhzdat (for Lyubimov). 6. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'noy literatury (for Ponomareva). 7. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo khimicheskoy literatury (for Reykhtsaum).
(Engineering--Nutation) (Units)

KALASHNIKOV, N.V., STOLTSKIY, L.R.

International system of units. Gaz. prom. 6 no.12:52-54
'61. (MIRA 15:2)
(Units)

KALASHNIKOV, N.A., kand.tekhn.nauk; STOTSKIY, L.R., kand.tekhn.nauk

"Units of physical values" by G.D. Burdun. Reviewed by N.A.
Kalashnikov. Mekh.i avtom.proizv. 15 no.8:61 Ag '61. (MIRA 14:9)
(Units)
(Burdun, G.D.)

DRUSKIN, L.I. Prinsipal uchastiye FORER, I.B., inzh.; STOVSKIY, L.R.,
retsenzent; VRONSKIY, L.N., ved. red.; YAKOVLEVA, Z.I.,
tekh. red.

[Gas burning in industrial furnaces and boiler units]
Szhiganie gaza v promyshlennykh pechakh i kotlakh. Moskva,
Gostoptekhnizdat, 1962. 263 p. (MIRA 15:11)
(Gas as fuel)

SMIRNOV, Aleksandr Sergeyevich, doktor tekhn. nauk, prof.; GENKINA, Liya Aleksandrovna, inzh.; KHUSHIULYAN, Mikhail Menzikovich, inzh.; CHEBNOV, Dmitriy Lvovich, inzh.; KHODANOVICH, I.Ye., kand. tekhn. nauk; STOLSKIY, L.R., red.; VRONSKIY, L.N., ved. red.; VORONOVA, V.V., tekhn. red.

[Transportation and storage of gas] Transport i khranenie gaza. [iy] A.S.Smirnov i dr. Moskva, Gostoptekhzdat, 1962. 421 p. (MIRA 15:6)

(Gas, Natural--Storage)
(Gas, Natural--Transportation)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International system of units. Mashinostroitel' no.3:45-47 Nr '62.
(MIRA 15:3)

(Units)

KALASHNIKOV, N.V., STOLSKIY, L.R.

International unit system. Priborostroenie no.4:28.30 Ap '62.
(MIRA 15:4)

(Units)

KALASHNIKOV, N.V.; STOLSKIY, L.R.

International system of units. Geol. nefte i gaza 6 no.6:49-53
Ju '62. (MIRA 15:6)

(Units)

STOTSKIY, L.R.

International system of units SI. Khim.prom. no.7:476-480
Jl '62. (MIRA 15:9)
(Units)

KALASHNIKOV, N V.; STOTSHIY, L.H.

International system of units. Khim. i tekhn. topl. i masel 7
no.3:67-70 Mr '62. (MIRA 15:2)

(Units)

KALASHENIKOV, N.V., kand. tekhn. nauk; SICTSKIY, L.N., kand. tekhn. nauk

International system of units. Stroi. truboprov. 7 no. 4:23-2
Ap '62. (MIRA 15:5)
'Units)

KALASHNIKOV, N.V., inzh.; STOTSKIY, L.R., inzh.

International system of units. Stroi. i dor. mash. 7
no.8:35-37 Ag '62. (MIRA 15:9)
(Units)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International system of units. Kons. i ov.prom. 17 no.4:44-48
Ap '62. (MIRA 15:3)

(Units--Standards)

САЛАНДИНОВ, Н.В.; СТОДСКИЙ, Л.Р.

International unit system. Tekst.prom. 22 no.4:22-26 Ap '62.
(MIRA 15:6)

(Units)

KALASHNIKOV, N.V.; STOTSKIY, L.N.

International system of units. Stal' 22 no.9:354-361 S
'62. (MIRA 15:11)

(Units)

STOTSKIY, L.R., kand.tekhn.nauk

The international system of units and its use in assembly
practice in construction. Mont.i spets. rab. v stroi. 24
no.11:22-26 N '62. (MIRA 15:12)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlen-
nosti.

(Units)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International system of units. Ogneupory 27 no.5:203-207 '62.

(MIRA 15:7)

(Units)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International system of units. Zav.lab. 28 no.8:1018-1021 '62.
(MIRA 15:11)
(Units)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International unit system. Masl.-zhir.prom. 28 no.9:44-47
'62. (MIRA 15:9)

(Units)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International unit system. Stan.i instr. 33 no.5:38-40
My '62. (MIRA 15:5)
(Weights and measures- Standards)

KALASHNIKOV, N.V.; STOTSKIY, L.R.

International unit system. Sakh.prom. 36 no.4:71-75 Ap '62.
(MIRA 15:5)

(Units)

KOMAROV, N.V.; STOTSKIY, L.R.

International unit system. Ugol' 37 no.9:56-59 S '62.
(MIRA 15:9)

(Units)

STORNIY, L.P., kand.tekhn., nauk; KALASHNIKOV, N.V., kand.tekhn.nauk

SI - the International System of Units. Stroimaterialy, 9 no.3;
36-38 Mr '63. (MIFA 1614)

(Units)

KALASHNIKOV, N.V., kand.tekhn.nauk; STETSKIY, I.B. kand.tekhn.nauk

International unit system.Mekh.i avtom.prikl. 16 no.5:42-45 '62.
(MIRA 16:5)

(Units--Standards)

STOISKII, L.F., kand.tekhn.nauk

International system of units. *Prac.enertg.* 18 no.1:46-59 Ja '63.
(MIRA 16:4)

(Units)

STOTSKIY, L.R., kand.tekhn.nauk

International system of units. Elek. sta. 34 no.1:65-75
Ja '63. (MIRA 16:2)

(Electric units)
(Units)

STOTSKIY, L.R., kand.tekhn.nauk; KALASHNIKOV, N.V., kand.tekhn.nauk

International system of units and its use in design and construction.
Prom. stroi. 40 [i.o. 41.] no.3:50-54 Mr '63. (MIRA 16:3)
(Unit)

СИСТЕМА, квал. техн. наук; КАЛАШНИКОВ, Н.В., канд. техн. наук

SI, the international system of units, and its use in designing,
construction, and the building materials industry. Vol. 1 san.
tekh. no.5:31-34. My '63. (MIRA 16:6)

(Units)

STOTSKIY, Lev Rudol'fovich; SVYATITSKAYA, K.P., ved. red.;
FOLOSINA, A.S., tekhn.red.

[Stoker of boilers operating on liquid and gas fuel]
Kochegar kotel'nykh na zhidkoe i gazoobraznoe toplivo.
Izd.2., ispr. i dop. Moskva, Izd-vo "Nedra," 1964. 342 p.
(MIRA 17:2)

... introduction of standard measure 1113.
... 28 no. 10/15-16. O 164. (MIRA 17:10)

... Komiteti nauchestvija vvedeniju yedinita
... sistemy v narodnyye khozyaystvo SSSR pri
... Nauchno-tekhnicheskogo obshchestva
... i gazovoy promyshlennosti.

Not for
Distribution (MIRA 18:4)

СТАНДАРТЫ (Standards, 28000, Techn. Norm)

New system of units and its use. Standartizatsia 28 no.5:
28.14 My '64. (MIRA 17:12)

1. Predsedatel' Komissii soleyatviya vnedreniyu Meahdunarodnoy
sistemy yedinit v narodnoye khozyaystvo SSSR pri Tsentral'nom
pravlenii Nauchno-issledovatel'skogo obshchestva neftyanoy i
khimicheskoy promyshlennosti.

L 4520h-25 EWT(1)/EWC(m)/EWT(m)/EWC(k)-2/FCC/EWC(*)/EWA(h) Pg-11/P1-11/P1-11/

PS-11/PS-11/PS-11 DIAAP GW

ACCESSION NR: AP5907051

S/0120/65/000/001/0169/0174

47
45
B

AUTHOR: Filatov, A. I.; Stepanov, A. P.; Stotskiy, V. M.

TITLE: Nuclear precession magnetometer with integrated polarization and measurement processes

35

SOURCE: Prihory i tekhnika eksperimenta, no. 1, 1965, 169-174

TOPIC TAGS: magnetometer, nuclear precession magnetometer, terrestrial magnetic field

19

am

ABSTRACT: A method is considered of measuring the terrestrial magnetic field which is based on the phenomenon of free nuclear precession, with a continuous dynamic polarization of the protons of an aqueous solution of potassium nitrodisulfonate, $K_2 [NO(SO_3)_2]$. The operating cycle of the new magnetometer consists of three consecutive periods: (1) Dynamic polarization of the working substance and measuring the frequency of the free-precession signal; (2) Turning

Card 1/2

L 45124-65

ACCESSION NR: AP5007051

the nuclear magnetization into the plane perpendicular to the terrestrial magnetic field H_0 ; (3) Nonadiabatic shutting off the turning field $h(t)$ and damping of transients in the receiving coil. The 90° -turn of the nuclear magnetization is effected by the short pulse of an auxiliary field. Field tests of a laboratory model of the magnetometer showed that its operating-cycle time may be as low as 0.5 sec. "The authors wish to thank A. I. Kolesnikov who materially helped to build the laboratory model." Orig. art. has: 4 figures and 3 formulas.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirov
(Ural Polytechnic Institute)

SUBMITTED: 26Dec63

ENCL: 00

SUB CODE: ES, NP

NO REF SOV: 004

OTHER: 004

Card 2/2

L 24259-66 ENT(1)/ENT(m)/EAP(j)/ETC(m)-6 IJP(c) WW/RM

ACC NR: AP6007824

SOURCE CODE: UR/0120/66/000/001/0128/0132

AUTHORS: Stepanov, A. P.; Stotskiy, V. M.; Filatov, A. I.

67
66
B

ORG: Ural Polytechnic Institute, Sverdlovsk (Ural'skiy
politekhnicheskii institut)

2/

TITLE: Electron-nuclear double resonance spectrometer

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 128-132

TOPIC TAGS: nuclear resonance, electron paramagnetic resonance,
electron paramagnetic spectrometer, paramagnetic relaxation, line
width, hyperfine structure, magnetometer

ABSTRACT: The article describes apparatus for the observation of
dynamic polarization of nuclei in solutions of paramagnetic sub-
stances. The apparatus contains a source for a constant magnetic
field, a system for detecting the nuclear magnetic resonance signal
(which is proportional to the nuclear polarization), and a system for
the saturation of the EPR lines. The apparatus can be used to measure
the coefficient of increase in the polarization of the nuclei, the

Card

1/2

UDC: 539.28.078

2

L 24259-66

ACC NR: AP6007824

nuclear and electronic relaxation times, the hyperfine structure of EPR spectra in a weak magnetic field (8 -- 50 G) at temperatures from 0 to +800. Being designed for weak fields, where the conditions for strong narrowing of the resonant lines are easier to satisfy, the apparatus is simpler than that used for strong field measurements. The use of the equipment and its construction are described in detail. The accuracy is approximately 10%. As an example measurement results are presented for the hyperfine structure of the EPR spectra of solutions of DPPH in benzene, which could not be measured earlier, since the standard EPR technique is insufficiently sensitive for this purpose. The apparatus can also be used to select working media for nuclear precession magnetometers. Orig. art. has: 5 figures and 4 formulas.

SUB CODE: 20

SUBM DATE: 22Jan65/ ORIG REF: 003/ OTH REF: 007

Card

2/23/62

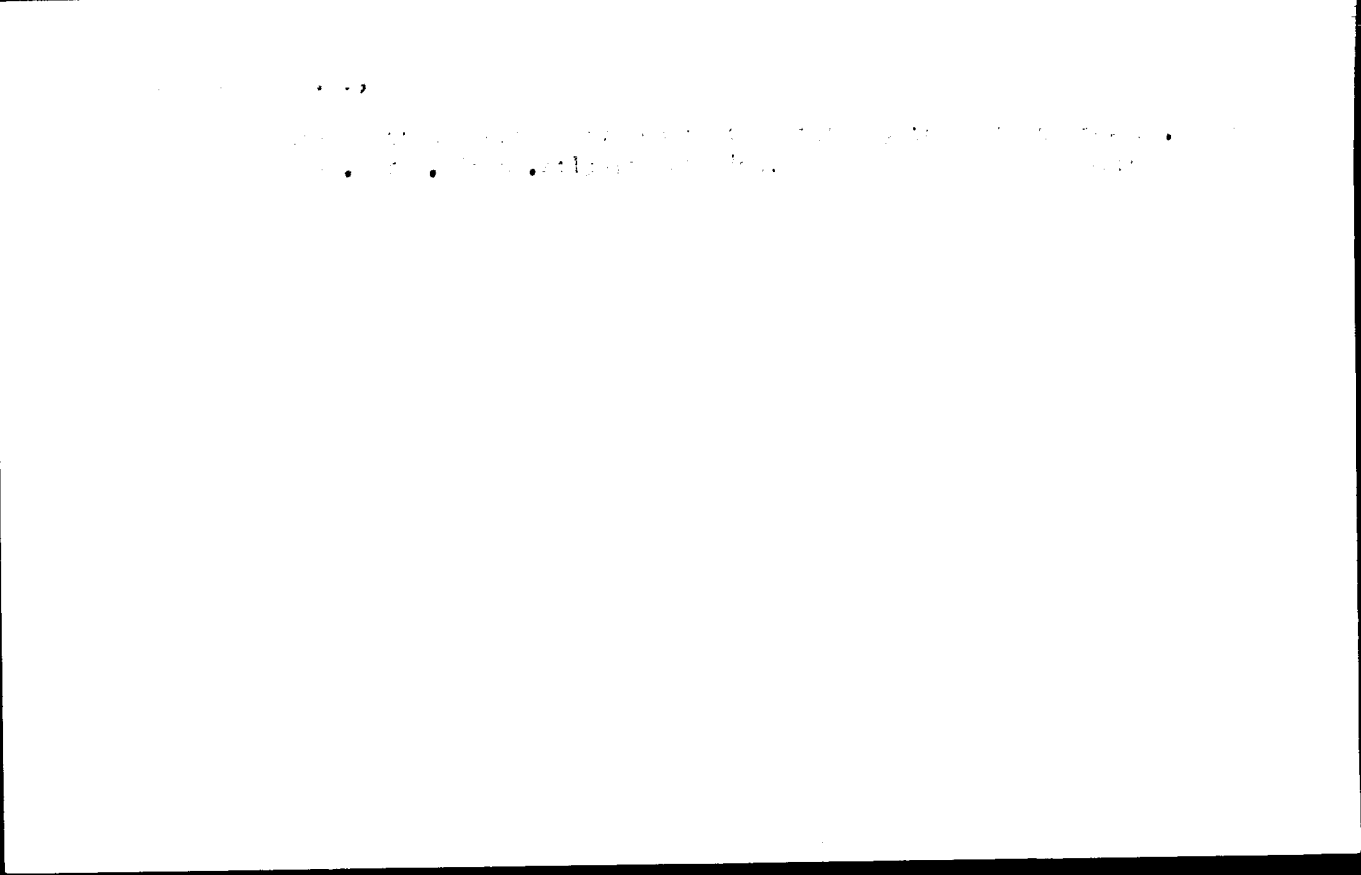
STOTSKIY, Vasilii Nikolayevich; ZHARIKOV, N., redaktor; STARETS, R., redaktor;
IL'YABAYEV, R., tekhnicheskii redaktor

[In Vakhsh Valley; the high cotton yields and the growth of the economy of the N.S.Khrushchev Collective Farm, Kurgan-Tyubinsk district, Tajikistan] V doline Vakhsha; vysokii uroshai khlopka i razvitie ekonomiki kolkhosa imeni N.S.Khrushcheva, Kurgan-Tiubinskogo raiona Tadzhikistana. Stalinabad, Tadzhikgosizdat, 1955.
47 p. (MLRA 9:10)

(Tajikistan--Cotton growing)

STOTSKIY, V.N.; OBNOSOV, P.S., redaktor; STARETS, P., redaktor; SALIBAYEVA, V.,
redaktor; IL'YABAYEV, P., tekhnicheskiy redaktor

[New progressive methods of cotton cultivation and the development
of collective farm economy in southern Tajikistan] Novye progressiv-
nye priemy vozdeleyvaniia khlopchatnika i razvitie ekonomiki kolkho-
sov IJzhnogo Tadzhikistana. Pod red. P.S.Obnosova. Stalinabad,
Tadzhikgosizdat, 1956. 117 p. (MLRA 9:10)
(Tajikistan--Cotton growing)



STOTSKO, L.T. (Minsk)

Construction of a semi-automatic block system with a polarized
line circuit on the White Russian line. Zhel.-dor.transp. 41
no.9:63-68 S '59. (MIRA 13:2)

1. Nachal'nik sluzhby signalizatsii i svyazi Belorusskoy
zheleznoy dorogi.
(White Russia--Railroads--Block system)

L 51421-66 INT(1)/EMP(t)/INT(B) INT(1) II

ACCESSION NR: AF5016638

CZ/0017/64/053/010/0526/0528

AUTHOR: Stotzel, H. (Graduate engineer); Teubner, W. (Graduate physicist)

19

TITLE: Mass spectrograph²¹ for quick recording in vacuum technique

18

12

SOURCE: Elektrotechnicky sbor, v. 53, no. 10, 1964, 525-528

TOPIC TAGS: mass spectrometer, vacuum physics

ABSTRACT: The mass spectrograph described is based on the principle of oscillating ions. The oscillographic recording of the mass spectrum is achieved at a constant service frequency and variable potential in the measuring tube. Examples are shown to demonstrate properties of the instrument and its suitability for investigating fast dynamic processes in vacuum systems. Orig. art. has: 7 figures.

ASSOCIATION: Ustav pro obecnu elektrotechniku Vysoke školy technické, Drazdanech (Institute for General Electrical Engineering, Higher School of Technology)

SUBMITTED: 09Jun64

ENCL: 00

SUB CODE: OP, GP

NO REF SOV: 000

OTHER: 009

JPRS

ls
Card 1/1

STOUD, Z.

Unification of ISA and OST gauging systems in the countries of socialist comm. p. 14
VYNALEZY A NORMALISACE, OCHRANNE ZNAMKY, CHRANENE VZORY. Praha, Czechoslovakia,
Vol. 3, No. 6, June 1959

Monthly List of East European Accessions (EEAI), IC. Vol. 8, No. 9, September 1959
Uncl.