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LITVINENKO, G.

Physical Education and Training - Kamenets-Podol'sk

Pavlov's theory and physical education in Kamenets Podol'sk. Zhur. vys. nerv. deiat. 3, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G. I.

18(0) PHASE I BOOK EXPLOITATION SOV/1726

Akademiya nauk SSSR. Institut metallurgii

Sovremennyye problemy metallurgii (Modern Problems in Metallurgy) Moscow, Izd-vo AN SSSR, 1958. 640 p. 3,000 copies printed.

Resp. Ed.: A.N. Samarin, Corresponding Member, USSR Academy of Sciences; Eds. of Publishing House: V.S. Rzhevnikov, and A.N. Dornov; Tech. Ed.: T.V. Polyakova.

PURPOSE: This book is intended for scientific and technical personnel in the field of metallurgy.

COVERAGE: This is a collection of articles on certain aspects of Soviet metallurgy. The book is dedicated to Academician Ivan Pavlovich Bardin on the occasion of his 75th birthday. The book is divided into seven parts. The first part consists of two articles presenting a brief account of the biography and professional activity of the Soviet metallurgist. It includes an article by John Chipman, Nicholas Grant, and John Elliott (M.I.T., USA) describing their meeting with Bardin in Moscow and also his visit to the United States. The second part consists of three articles and deals with raw materials and fuels for the Soviet metallurgical industry. The third part represents the major portion of the book. It consists of 25 articles dealing with the various aspects of the metallurgy of pig iron and steel. The fourth part consists of two articles treating the metallurgy of nonferrous metals. The fifth part consists of three articles on the forming of metals. The sixth part consists of eight articles discussing certain aspects of physical metallurgy. The last part deals with general problems in the field of metallurgy. References are given after each article. No personalities are mentioned.

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Modern Problems in Metallurgy SOV/1726

Svet, D.Th. [Doctor of Technical Sciences]. The Bicchromatic Electronic Systems for Metal Pyrometry in the Infrared Region of a Spectrum 387

Andon'yev, S.N. [Candidate of Technical Sciences], G.A. Garbuz and G.I. Litvinenko [Engineers, Giprostal' (State Institute for the Design and Planning of Steel Structures)]. New Developments in the Design of Metallurgical Plants 393

METALLURGY OF NONFERROUS METALS

Chizhikov, D.M. [Corresponding Member, AS USSR, Metallurgical Institute imeni A.A. Baykov, AS USSR]. Present Condition of the Problem of Using Oxygen-enriched Air in Nonferrous Metallurgy 417

Tsein, G.A. [Doctor of Technical Sciences, Metallurgical Institute of the Ural Branch, AS USSR]. Electrolysis of Molten Slags 443

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.Kh.; SUSLIKOV, A.D.

Mechanication and automatization of operations in coke-oven sections. Koks i khim. no.7:33-36 '60. (MIRA 13:7)

1. Magnitogorsk metallurgicheskiy kombinat.
(Coke industry--Equipment and supplies)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.Kh.; SOLNTSEV, L.D.

Device for signaling the opening of coke wharf gates and the presence of coke on the wharf. Biul. TSINCHERM no.5:49 '61. (MIRA 14:10)

(Coke ovens)
(Automatic control)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

GARAN', F.A.; LITVINENKO, G.Kh.

Automation of the filling of charges into larry cars and its falling in a coal tower. Koks i khim. no.9:29-32 '61. (MIRA 15:1)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Magnitogorsk) (Coke industry--Equipment and supplies)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.Kh.; SUSLIKOV, A.D.; GARAN', F.A.

Automation of coke sorting and distribution. Koks i khim. no.6: 27-31 '63. (MIRA 16:9)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Coke industry) (Automation)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.L., agronom; TYRICHEVA, Z.

The most honorable occupation. Zemledelie 26 no.5:92-93 My '64. (MIRA 17:6)

1. Kolkhoz imeni Chapayeva, Dnepropetrovskoy oblasti (for Litvinenko).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.S.

Litvinenko, G.S. -- "Complex Ester Condensations in a Series of Gamma-Piperidones. Synthesis of Cocaine Analogs." Cand Chem Sci, Inst of Chemical Sciences, Acad Sci Kazan' SSR, Alma-Ata 1953. (REFERATIVNYY ZHURNAL--KHIMIYA, No1, Jan 54.)

Source: SUM 168, 22 July 1954

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.S.

NAZAROV, I.N.; SOKOLOV, D.V.; LITVINENKO, G.S.

Heterocyclic compounds. Report no.30: Condensation of γ-piperidones with esters of formic, oxalic, carbonic, and chlorocarbonic acids. Synthesis of cocaine analogs. Izv.AN SSSR. Otd.khim.nauk no.1:95-108 Ja-F '54. (MLRA 7:4)

1. Institut khimicheskikh nauk Akademii nauk Kaz.SSR.
(Condensation products (Chemistry)) (Esters) (Chemistry, Medical and pharmaceutical)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

SOKOLOV, D.V.; LITVINENKO, G.S.; ISIN, Zh.I.

Laboratory production of vinylacetylene from dimethylvinylethinylcarbinol. Izv.AN Kazakh.SSR.Ser.khim. no.2:68-71 '59. (MIRA 12:8)

(Acetylene)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G. S.

D. V. Sokolov, G. S. Litvinenko, and K. I. Khludneva, "Conformation of stereoisomers of 2-Methyl-4-ketodekahydroquinoline and 2-Methyl-4-oxydekahydroquinoline and Some of Their Derivatives."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561-564.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

5(3) SOV/79-29-4-15/77

AUTHORS: Sokolov, D. V., Litvinenko, G. S., Khludneva, K. I.

TITLE: III. Stereochemistry of Nitrogen Heterocycles (III. Stereokhimiya azotistykh geterotsiklov). III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline (III. Stereoizomeriya 2-metil-4-ketodekagidrokhinolina)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1112-1122 (USSR)

ABSTRACT: Upon suggestion of the late Academician I. N. Nazarov, the authors chose in continuation of their previous papers (Refs 1, 2) the easily accessible 2-methyl-4-ketodecahydroquinoline (I) as subject of stereochemical investigations, which is synthesized from the acetylene derivatives (Ref 3) according to scheme 1. It has three asymmetric carbon atoms and can theoretically occur in the form of four racemates. From among the four possible racemates the racemates (II), (III) and (IV), denoted in scheme 2 α-, β-, and γ-isomer, were obtained. The fourth one, the δ-isomer (V) could only be obtained in the form

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of its benzoyl derivatives (Va) (for details see table). On repeated fractional recrystallization of the hydrogen chloride salts (I) from anhydrous alcohol the compounds (VII) and (VIII) resulted. The results of the investigation indicate that the initial mixture of the isomers of 2-methyl-4-ketodecahydroquinoline (I) consists chiefly of the stable α- and γ-isomers (II and IV) and partly of the less stable β-isomer (III). The very unstable δ-isomer (V) in the mixture apparently does not occur. For the time being it is not possible to solve the problem whether on the closure of the piperidine ring (see the scheme) immediately the more stable α- and γ-isomers (II) and (IV) or, at first, the less stable β and δ isomers (III) and (V) are formed on the double bond of the cyclohexane ring. The δ-isomer (V) is rapidly transformed into the γ-isomer (IV); the α- and β-isomers undergo mutual transformations by way of the hydrochloride into which compound (I) must be converted in order to separate it from neutral compounds. Thus, the conditions for the mutual transformations of stable isomers into unstable ones, and vice versa, are found.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

III. Stereochemistry of Nitrogen Heterocycles. SOV/79-29-4-15/77
III. Stereoisomers of 2-Methyl-4-ketodecahydroquinoline

There are 1 table and 9 references, 4 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR (Institute of Chemical Sciences of the Academy of Sciences of the Kazakhskaya SSR)

SUBMITTED: March 6, 1958

Card 3/3

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

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78266
SOV/79-30-3-20/69

AUTHORS: Sokolov, D. V., Litvinenko, G. S., Khludneva, K. I.

TITLE: Stereochemistry of Nitrogen-Containing Heterocycles. VIII. Benzoic Esters of 2-Methyl-4-Hydroxydecahydroquinoline and 1,2-Dimethyl-4-hydroxydecahydroquinoline Isomers. New Anesthetics

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, pp 831-838 (USSR)

ABSTRACT: This article is a continuation of previous work (Zhurnal obshchey khimii, 29, 3204 (1959); Ibid, 29, 3555 (1959) and is devoted to synthesis of benzoic esters of the five common alcohols (VII, mp 134°; VIII, mp 128°; XI, mp 144°; XII, mp 158°) with rings joined trans, and alcohol (XIII, mp 115°) with rings joined cis, as well as benzoic esters of these alcohols with methyl radicals at the nitrogen (scheme 2)

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Stereochemistry of Nitrogen-Containing Heterocycles. VIII

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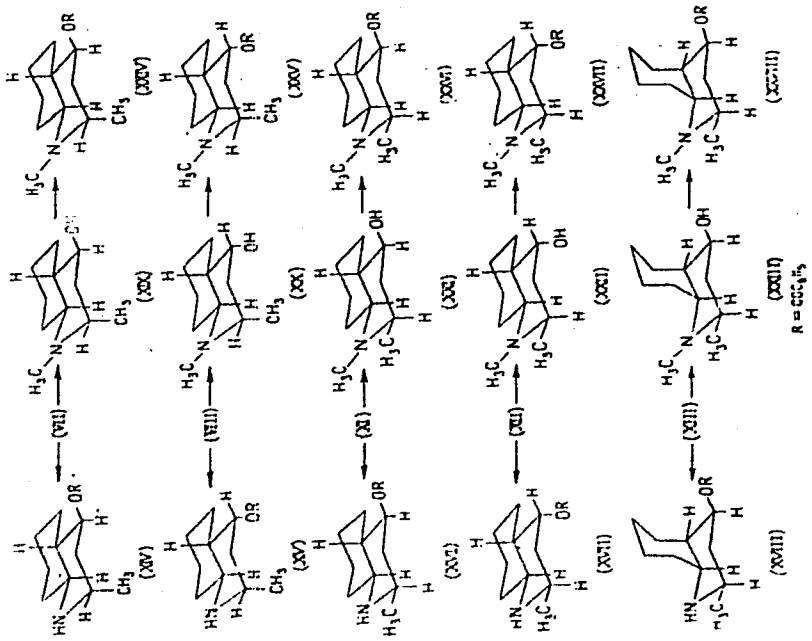
Scheme 2.



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Stereochemistry of Nitrogen-Containing Heterocycles. VIII

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Heating the hydrochlorides of racemic alcohols (VII), (VIII), (XI), and (XII) with benzoyl chloride results in good yield of benzoic esters of 2-methyl-4-hydroxy-decahydroquinoline, (XIV), (XV), (XVI), ans (XVII). Benzoic ester (XVIII) was obtained from N-benzoyl derivatives of alcohol (XIII) by the method described previously (above ref). The properties of the obtained esters are shown in Table 3. Heating the same alcohols with a mixture of formaldehyde and formic acid yields (90%) five corresponding racemates of 1,2-dimethyl-4--hydroxydecahydroquinoline, (XIX), (XX), (XXI), (XXII), and (XXIII). The properties of the obtained compounds are shown in Table 2. Compounds were converted into corresponding benzoic esters, (XXIV), (XXV), (XXVI),

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Sterochemistry of Nitrogen-Containing Heterocycles. VIII

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(XXVII) and (XXVIII). They are shown in Table 4. The majority of the synthesized compounds have strong anesthetic properties surpassing that of novocain, and especially cocain; some of them were comparable to dicain. The obtained compounds were tested at the Alma-Ata Medical Institute (chair of pharmacology) and at the Institute of Physiology of the Academy of Sciences of the Kazakh SSR (pharmacology laboratory), under the direction of I. I. Sivertsev. There are 4 tables; and 8 Soviet references.

ASSOCIATION: Institute of Chemical Sciences of the Academy of Sciences of the Kazakh SSR (Institut khimicheskikh nauk Academii nauk Kazakhskoy SSR)

SUBMITTED: March 19, 1959

Card 4/8

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78906
SOV/79-30-3-20/69

Table 2

A	B	C	D	E
(XIX)	а) $C_{11}H_{21}ON$	30	93.5	116–117
	б) $C_{11}H_{22}ONCl$			238–239
	в) $C_{17}H_{31}O_5N_1$			149–150
(XX)	а) $C_{11}H_{21}ON$	20	92.5	148–149
	б) $C_{11}H_{22}ONCl$			257–258
	в) $C_{17}H_{31}O_5N_1$			175–176
(XXI)	а) $C_{11}H_{21}ON$	15	90.2	87–88
	б) $C_{11}H_{22}ONCl$		--	173–175
	в) $C_{17}H_{31}O_5N_1$			140–142
(XXII)	а) $C_{11}H_{21}ON$	25	79.2	130–131
	б) $C_{11}H_{22}ONCl$		--	150–151
	в) $C_{17}H_{31}O_5N_1$			192–193
(XXIII)	а) $C_{11}H_{21}ON$	25	80.0	99–100
	б) $C_{11}H_{22}ONCl$	--		192–194
	в) $C_{17}H_{31}O_5N_1$	--		149–151

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SOV/79-30-3-20/69

Table 3

	B	C	D	E
		A		
(XIV)	а) $C_{17}H_{23}O_2N$ *	183—190°	84.6	
	б) $C_{17}H_{24}O_2NCl$	—	—	283—284°
	в) $C_{23}H_{26}O_9N_4$	—	—	208—209
(XV)	а) $C_{17}H_{23}O_2N$	197—198	64.0	77—78
	б) $C_{17}H_{24}O_2NCl$	—	—	269—271
	в) $C_{23}H_{26}O_9N_4$	—	—	256—257
(XVI)	а) $C_{17}H_{23}O_2N$	190—193	53.6	87 — 87.5
	б) $C_{17}H_{24}O_2NCl$	—	—	270—272
	в) $C_{23}H_{26}O_9N_4$	—	—	240—241
(XVII)	а) $C_{17}H_{23}O_2N$ **	197—199	83.5	
	б) $C_{17}H_{24}O_2NCl$	—		214—215
	в) $C_{23}H_{26}O_9N_4$	—	—	271—273
(XVIII)	а) $C_{17}H_{23}O_2N$ [7]	135—140	50.2	75—76
	б) $C_{17}H_{24}O_2NCl$	—	—	304—305
	в) $C_{23}H_{26}O_9N_4$	—	—	216—217

* d_4^{20} 1.0869, n_D^{20} 1.5396,
** d_4^{20} 1.0874; n_D^{20} 1.5380,

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Table 4

	B	C	D	E
(XXIV)	а) $C_{18}H_{25}O_2N$	160—165°	99.0	62—63°
	б) $C_{18}H_{26}O_2NCl$	—	-	269—270
	в) $C_{24}H_{28}O_4N_4$	—	—	—
(XXV)	а) $C_{18}H_{25}O_2N$ *	160—165	84.0	41—42
	б) $C_{18}H_{26}O_2NCl$	—	—	204—205
	в) $C_{24}H_{28}O_5N_4$	—	—	233—234
(XXVI)	а) $C_{18}H_{25}O_2N$ **	145—150	97.0	
	б) $C_{18}H_{26}O_2NCl$	—	—	217—218
	в) $C_{24}H_{28}O_9N_4$	—	—	192—193
(XXVII)	а) $C_{18}H_{25}O_2N$ ***	140—145	87.7	
	б) $C_{18}H_{26}O_2NCl$	—	—	F
	в) $C_{24}H_{28}O_9N_4$	—	—	212—213
(XXVIII)	а) $C_{18}H_{25}O_2N$	150—155	95.0	57—58
	б) $C_{18}H_{26}O_2NCl$	—	—	232—234

* d_4^{20} 1.0844, n_D^{20} 1.5417,
** d_4^{20} 1.0702, n_D^{20} 1.5380,
*** d_4^{20} 1.0723, n_D^{20} 1.5368,

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

Stereochemistry of Nitrogen-Containing Heterocycles. VIII

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SOV/79-30-3-20/69

Table 2. (A) Properties of isomeric 1,2-dimethyl-4--hydroxydecahydroquinolines and their derivatives; (B) formulas of isomers (a), their hydrochlorides (b) and picrates (c); (C) methylation time (in min); (D) yield (%); (E) mp.

Table 3. (A) Properties of 2-methyl-4-hydroxydeca-hydroquinoline benzoates and their derivatives; (B) formulas of benzoates (a), their hydrochlorides(b), and picrates (c); (C) benzoylation temperature; (D) yield, (%); (E) mp.

Table 4. (A) Properties of 1,2-dimethyl-4-hydroxy-decahydroquinoline benzoates and their derivatives; (B) formulas of benzoates (a), their hydrochlorides (b) and picrates (c); (C) benzoylation temperature; (D) yield (%); (E) mp; (F) hygroscopic.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

SOKOLOV, D.V.; LITVINENKO, G.S.; ARTYUKHIN, V.I.

Stereochemistry of nitrogen heterocycles. Part 10: Steric directivity in hydrogenation of isomers of 2-methyl- 4-ketodecahydroquinoline. Reduction of isomers of 1-benzoyl-2-methyl-4-ketodecahydroquinoline by aluminum isopropylate. Izv.AN Kazakh. SSR. Ser.khim. no.1:75-82 '61. (MIRA 16:7)

(Heterocyclic compounds) (Stereochemistry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

AGASHKIN, O.V.; LITVINENKO, G.S.; SOKOLOV, D.V.; CHASNIKOVA, S.S.

Stereochemistry of nitrogen heterocycles. Part 11: Infrared spectra of the family of 2-methyl-4-hydroxydecahydroquinoline stereoisomers. Zhur. ob. khim. 31 no.3:862-870 Mr '61. (MIRA 14:3)

1. Institut khimii AN Kazakhskoy SSR.
(Quinoline--Spectra)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

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ACCESSION NR: AR5012262 UR/0058/65/000/003/D036/D036

17
B

SOURCE: Ref. zh. Fizika, Abs. 3D270

AUTHOR: Agasikin, O. V.; Chasnikova, S. S.; Litvinenko, G. S.; Sokolov, D. V.

TITLE: Infrared and ultraviolet spectra of several batch alcohols

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 330-336

TOPIC TAGS: spectroscopy, ir spectra, ultraviolet spectra, batch alcohol

TRANSLATION: The equilibrium constants for monomers-associates were determined by measuring the intensities of bands of free and bonded hydroxyls in the infrared absorption spectra of solutions of stereoisomer batch alcohols. It was found that for equal conditions the larger equilibrium constants correspond to associates of equatorial isomers, rather than to associates of their axial epimers. The energies of hydrogen bonds, formed by various stereoisomers and corresponding to steric coefficients, were determined from temperature relations of equilibrium constants. It is explained that equatorial isomers form stronger hydrogen bonds than axial isomers. A test to interpret the observed effects was made by obtaining data on the electronic spectra of stereoisomer alcohols in the near and vacuum ultraviolet

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ACCESSION NR: AR5012262

region.

SUB CODE: OP, OC ENCL: 00

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LIVINENKO, G. F.

Dissertation: "Investigation of Conditions for Obtaining a Stable Agglomerate of the Ordinary and the Fluxing Type from Concentrates of Wet Dressing of Ores from the Kamysh-Burun Deposit." Cand Tech Sci, Institute of Ferrous Metallurgy, Acad Sci Ukrainian SSR, Kiev, 1953. (Referativnyy Zhurnal-Khimiya, No 10, Moscow, May 54)

SO: SUM 318, 23 Dec 1954

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/130/60/000/006/004/011

AUTHOR: Litvinenko, G. T., Director

TITLE: Giprostal's Contribution in the Introduction of New Technology

PERIODICAL: Metallurg, 1960, No. 6, pp. 6-7

TEXT: Giprostal' workers are occupied with the following problems connected with the development of Soviet metallurgy: Industrial methods of cast-iron desulfurization which is conducted not in blast furnaces but in the ladle by lime blast. Raising the blast heat, requiring improved refractories, more powerful burners, and extended surfaces of the air-blast; high-alumina ribbed bricks will be produced at the Semiluk plant increasing the heat surface by 10-12%, without changing the volume. Supply of natural gas to blast furnaces to reduce coke consumption. Developing large-capacity open-hearth furnaces (800 tons) with a number of special features and an efficiency raised by 19%; fuel consumption reduced by 8% and refractory consumption by 23%; designing a unit for the preliminary oxygen blowing through cast iron and addition of ore and limestone, to be built at "Azovstal'". Development of standard mechanized systems for the cold repair of open-hearth furnaces. Developing of self-carburization of natural gas, tested at the plant imeni Il'yich. Devising a

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S/130/60/000/006/004/011

Giprostal's Contribution in the Introduction of New Technology

shot-blasting device for cleaning sheets at the Alchevsk plant. Developing an installation for hardfacing stainless steel sheets. This installation is equipped with various new mechanisms including a pneumatic suction device for sheets, a furnace with a roller hearth, a tilter, a hard-facing bath etc. The design of a butt-welding machine on a 350-2 mill was accomplished for the Makeyevka plant. The Institute brought about a project for an automatic pipe casting line including machines for centrifugal casting, a machine for the manufacture of molds, etc. Syphon casting of pipes is a new method which is being developed at the Institute. Besides the enumerated subjects, Giprostal' is occupied with the development of a four-groove continuous steel casting installation; the design of a multi-groove machine with tilting the blank into horizontal position is being planned. Important experimental work is performed on evaporation cooling of metallurgical units. At present over 200 open-hearth, 5 blast and 12 heating furnaces have been converted to evaporation cooling. The conversion of the majority of open-hearth furnaces, a number of blast furnaces and over 200 heating furnaces to this method is intended. Great attention is devoted to problems of mechanization and automation of ferrous metallurgical processes and to the improvement of designs metallurgical machines.

ASSOCIATION: Giprostal'

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/019/61/000/021/001/074
A154/A126

AUTHORS: Kononenko, V.G., Lyukevich, D.A., Litvinenko, G.T , Shmukler, I.S.

TITLE: A technological process for rolling ingots

PERIODICAL: Byulleten' izobreteniy, no. 21, 1961, 22

TEXT: Class 7a, 1. No 142260 (651107/22 of January 20, 1960). A technological process for rolling ingots, distinguished by the fact that, in order to increase the productivity of the blooming and slabbing mills before the ingots enter the roll stand, the ingots are first topped by explosion-cutting shears.

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, G.V.

S/185/62/007/005/009/013
D407/D301

AUTHORS: Lytvynenko, H.V., and Radchenko, I.V.

TITLE: Thermal conductivity of aqueous solutions of electrolytes as a structural-sensitive property

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 5, 1962, 539 - 547

TEXT: The apparent molal thermal conductivity of an infinitely diluted electrolytic solution is considered. The relation between the thermal conductivity of aqueous electrolytic solutions and the ionic radius is discussed from the point of view of the structure of the solution. The concept of apparent molal thermal conductivity φ_λ was introduced by A.F. Kapustinskiy and I.I. Ruzavin (Ref. 10: ZhFKh, 30, 548, 1956). The formula for φ_λ, proposed in Ref. 10, is however inadequate, since its principal term is not related to the thermal conductivity. The authors propose a new formula for φ_λ, which is free of the above shortcoming. They used, for the coefficient of thermal conductivity λ_r, the equation

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

$$\lambda_r = \frac{\lambda}{\lambda_0} = 1 + A\sqrt{m} + Bm \qquad (15)$$

proposed by G. Jones and M. Dole (Ref. 15: J. Amer. Chem. Soc., 51, 2950, 1929) for the coefficient of viscosity of electrolytic solutions of low concentration. The coefficients A and B are calculated by means of graphs; B describes the interaction of ions with the molecules of the solvent. It is related to the term Λ^o, entering the formula for the apparent molal thermal conductivity. The quantities B and Λ^o turned out to be additive with respect to the ions; hence it was possible to calculate these quantities for each ion. The calculations were based on the Cs-I scale, proposed in the references. The results of the calculation are listed in a table. By considering the dependence of Λ^o and B on the aqua- and radius r_{aq}, the following conclusions were reached: 1) The ions which are larger than the water molecules, have large negative Λ^o and B, i.e. they reduce the thermal conductivity of the solution; this reduction is the greater, the larger their radius r_{aq}. 2) Ions which are equal to, or smaller than, water molecules, have positive or small negative

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

values of Λ^{o} and B. 3) Multi-charge ions with small r_{aq} have large negative values of Λ^{o} and B. A comparison of the obtained results with the other properties of ions, shows that all negatively-hydrated ions reduce the thermal conductivity of the solution. By considering the influence of negatively-hydrated ions on the structure of the solution and on the translational motion of its molecules, the authors conclude that the thermal conductivity of aqueous electrolytic solutions is (unlike the viscosity) more sensitive to structural changes in the solution, than to changes in the translational motion. There are 6 figures, 3 tables and 19 references: 10 Soviet-bloc and 9 non-Soviet-bloc.

ASSOCIATION: Dnipropetrovs'kyy metalurhiynyy instytut (Dnipropetrovs'k Metallurgical Institute)

SUBMITTED: January 16, 1962

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/019/62/000/024/048/059
A156/A128

AUTHORS: Kononenko, V.G., Lyukevich, D.A., Litvinenko, G.T., Shmukler, I.S., Boborykin, Yu.A., Ful'makht, V.V., and Pravdin, V.S.

TITLE: A method of cutting-off metal, for example, during continuous casting

PERIODICAL: Byulleten' izobreteniy, no. 24, 1962, 56

TEXT: Class 49c, 13. No. 142498 (640182/25 of October 1, 1959). The subject of this invention consists in the use of explosion energy for cutting-off moving metal, for example, during continuous casting.

(Abstracter's note: Complete translation.)

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

KOROSTOVTSEV, S.B.; FISHZON-RYSS, Yu.I.; BALAKHINA, M.R.; VO VAN-VIN; ZHDAN, P.P.; KULTYSHEVA, Z.F.; Litvinenko, G.V.

Comparative characteristics of stomach exploration without catheter by means of ion-exchange resins saturated with azure and by Sahli's test. Lab. delo no. 8:470-474 '64. (MIRA 17:12)

1. Kafedra terapii dlya usovershenstvovaniya vrachey No. 1 (nachal'nik - prof. P.I.Shilov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova i Okruzhnoy gospital' (nachal'nik A.M.Andryushchenko), Leningrad.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

MAKHOV, N., starchiy nauchnyy sotrudnik; LITVINENKO, I., aspirant

Building farms with loose housing of cattle. Sel'. stroi. 16 no.6:4-5 Je '61. (MIRA 14:7)

1. Zapadno-Sibirskiy filial Akademii stroitel'stva i arkhitektury SSSR (for Makhov). 2. Nauchno-issledovatel'skiy institut sel'skikh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Litvinenko).
(Novosibirsk Province—Barns)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.

What mathematics contributes to the national economy. Nauka i zhizn' 28 no.7:42-46 Jl '61. (MIRA 14:8)
(Electronic calculating machines)
(Efficiency, Industrial)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

PROTSENKO, P.; LITVINENKO, I., inzh.

Arched buildings of rectolinear factory-made elements. Sel'. stroi. 15 no.7:14-15 Jl '61. (MIRA 14:8)

1. Glavnyy tekhnolog Novosibirskogo zavoda zhelezobetonnykh konstruktsiy i gipsovykh izdeliy.
(Novosibirsk Province--Farm buildings)
(Precast concrete construction)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.

The blue main line Volga - Baltic Sea. Tekh.mol. 31 no.2:35-36 '63. (MIRA 16:6)

1. Spetsial'nyy korrespondent zhurnala "Tekhnika molodezhi".
(Volga-Baltic Sea waterway)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.A.

USSR/Optics - Physical Optics. K-5

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7752

Author : Tolstoy, N.A., Litvinenko, I.A.
Inst :
Title : Direct Measurement of the Total Light of Rapidly Decaying Processes of Luminescence.

Orig Pub : Zh. eksperim. i teor. fiziki, 1955, 29, No 4, 507-515.

Abstract : A new objective method is proposed for direct measurement of the area under the curve of fluorescent rise (L_r) and under the curve of luminescent decay (L_d), based on a synchronous detection of the relaxation curves and subsequent integration of these curves by means of a pointer instrument. The ratio L_r/L_d can serve as a criterion for the choice of the particular phosphorescence theory, since different theories predict, generally speaking, different values of L_r/L_d. According to the theory based on the bimolecular glow mechanism, $L_r/L_d \leq 3$. Measurements

Card 1/2 - 48 -

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

USSR/Optics - Physical Optics K-5

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7752

made by the authors have shown that L_r/L_d can be greater than 10 (ZnS. Cu, copper concentration 1%, $t > 60^\circ$ C). The authors give a diagram of an instrument for measuring L_r and L_d ("L-meter"), which makes it possible to study the relaxation processes that take place in a time interval from 10^{-1} to 10^{-5} seconds.

Card 2/2 - 49 -

YEFIL'YEV, A.; LITVINENKO, I.

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I., kapitan zapasa

Decoration for excellent performance. Tyl i snab. Sov. Voor. Sil. 21 no.8:32 Ag '61. (MIRA 14:12)
(Russia--Army--Noncommissioned officers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I. A.

21 Phys 1 Direct measurement of fast-decaying luminescence processes. N. A. Tolstoi and I. A. Litvinenko. Soviet Phys., JETP 2, 420-7(1956)(Engl. translation).—See C.A. 50, 2300e. B. M. R. 2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/169/62/000/001/002/083
D228/D302

AUTHORS: Grachev, Yu. N., Dekhnich, M. Ya., Litvinenko, I. B., Nekrasova, K. A. and Sosnovskaya, A. V.

TITLE: Deep geophysical investigations in the territory of the Baltic Shield

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1962, 7, abstract 1A50 (V sb. Geol. rezul'taty prikl. geokhimii i geofiz, Razdel 2, M., Gosgeoltekhizdat, 1960, 43-50)

TEXT: The results of deep geophysical sounding work in the USSR's northern part are stated. The aim of the work was the detailed study of the inner structure of the crust in the Ukhta-Kem' area. The work was executed along a profile with a length of ~200 km by the method of continuous set-ups: The seismographs were placed every 100 m from each other within the general instrumental set-up and during its movement along the traverse. Explosions were made in three lakes which were situated at a distance of 50 - 80 km

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/169/62/000/001/002/083
D228/D302

Deep geophysical investigations ...

from each other. Six branches of refracted seismic waves which are compared with six discontinuity surfaces of the inner crustal layers, were recorded. The boundaries -- at a depth of 10 - 15 and 34 - 38 km -- are most clearly and positively distinguished. The second boundary is the Mohorovicic surface. In the overlying layer the speed of the refracted seismic waves is 6.6 km/sec; in the underlying layer it is 8.1 km/sec. In the layer directly overlying the first boundary this velocity differs in different parts of the traverse and fluctuates within the limits of 5.4 - 6.3 km/sec. Other discontinuity surfaces and intermediate layers, characterized by speed values of 6.9 - 7.0 and 6.7 km/sec, are less clearly exposed. The layer boundaries lie almost horizontally, forming a small subterranean relief in separate parts of the profile. Geologic irregularities in the crust's upper parts were also successfully outlined in a horizontal direction along the working traverse, and a number of abyssal faults confined to the contact zones of different structural-facies geologic formations were successfully defined. [Abstractor's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, Igor' Danilovich; CHERNIKOVA, V.K., red.; RAKITIN, I.T., tekhn. red.

[Electron-economist] Elektron-ekonomist. Moskva, Izd-vo "Znanie," 1963. 36 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.9) (MIRA 16:7)
(Electronic data processing)
(Electronic computers)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ATROSHCHENKO, V.I.; YEFIMOV, V.T. [Iefimov, V.T.]; LITVINENKO, I.I. [Lytvynenko, I.I.]; ALEKSEYEV, V.N. [Alekseiev, V.N.]; GALINSKIY, A.G. [Halyns'kyi, A.H.]

Investigating the process of the production of concentrated nitric acid in an autoclave with reflux packing rings. Khim. prom. [Ukr.] no.3:35-39 Jl-S '63. (MIRA 17:8)

1. Khar'kovskiy politekhnicheskiy institut (for Atroshchenko, Yefimov, Litvinenko). 2. Lisichanskiy khimicheskiy kombinat (for Alekseyev, Galinskiy).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

TSEITLIN, A.N., inzh.; LITVINENKO, I.I.

Hydraulic resistance of sprayed nozzles in direct flow. Khim. i neft. mashinostr. no.5:24 N '64 (MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L. L.

BONDARENKO, V.M.; LITVINENKO, I.I.

Chemical structure of hop strobiles following root and foliar feeding. [with summary in English]. Dop. AN URSR no.1:67-70 '57. (MLRA 10:4)

1. Zhitomirs'ka naukovo-doslidnay stantsiya khmelyarstva. Predstaviv akademik AN URSR P. A. Vlasyuk.
(Hops)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

5(2,4) SOV/153-58-4-12/22

AUTHORS: Atroshchenko, V. I., Litvinenko, I. I.

TITLE: On the Dissolution Kinetics of Nitrogen Oxides in Aqueous Solutions of Nitric Acid (Kinetika rastvoreniya okislov azota v vodnykh rastvorakh azotnoy kisloty)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 4, pp 71 - 76 (USSR)

ABSTRACT: The interaction of gaseous nitrogen oxides with the solutions mentioned in the title is a complex physico-chemical process. Its single stages are recalled. The total reaction of the formation of nitric acid can be represented as follows:

$$3NO_2 \text{ or } 1.5N_2O_4 + H_2O \rightleftharpoons 2HNO_3 + NO \quad (1)$$

The data in publications (Refs 1 - 11) on the velocity of the dissolution mentioned in the title are contradicting. There are great differences between the values of the velocity constants. In this paper the problem mentioned in the title is investigated as the first of the series of subsequent reactions in the formation of nitric acid. The investigations are to be continued. In the experimental part the apparatus used

Card 1/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

On the Dissolution Kinetics of Nitrogen Oxides in Aqueous Solutions of Nitric Acid SOV/153-58-4-12/22

is described and shown (Figure). Tables 1 and 2 give the dissolution velocities of NO_2 in aqueous HNO_3 solutions at a linear velocity of the gas of 0.2 m/sec. or 0.4 m/sec. As may be seen from the data given the dissolved gas amount is directly proportional to the NO_2 concentration in the gas. The total gas dissolution in the case of one and the same time of stay within the range of the mentioned NO_2 content in the gas is independent of the NO_2 concentration. The values K-velocity constant of the NO_2 dissolution in cm/sec. (Tables 1 and 2) are about the same for all three heights of the apparatus. From the consideration of the data of the tables 1 and 2 it may be seen that the constants K increase with the decreasing temperature and with the increasing acid concentration. On the average the dissolution velocity increases to the double with the decrease in temperature from +30 to -10°. Therefore the HNO_3 formation at increased temperatures

Card 2/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

On the Dissolution Kinetics of Nitrogen Oxides in Aqueous Solutions of Nitric Acid SOV/153-58-4-12/22

is controlled by the dissolution velocity of NO_2 in water. The HNO_3 accumulation in the solution hinders the absorption of the nitrogen oxides. At lower temperatures the transformation velocity of the nitrogen oxides in nitric acid should be investigated if under those conditions the process is not controlled by the NO_2 dissolution but by other reactions. This problem will be dealt with in an other paper. There are 1 figure, 2 tables, and 14 references, 8 of which are Soviet.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im.V.I.Lenina (Khar'kov Polytechnical Institute imeni V.I.Lenin) Kafedra tekhnologii neorganicheskikh veshchestv (Chair of the Technology of Inorganic Substances)

SUBMITTED: October 31, 1957

Card 3/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

YEFIMOV, V. T.; LITVINENKO, I. I.

Device for automatic determination of the weight change of small samples. Zav. lab. 28 no.12:1529 '62. (MIRA 16:1)

1. Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina.

(Testing laboratories—Equipment and supplies)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ALOTIN, L.M.; SHEMYAKIN, V.A.; LITVINENKO, I.I.

Some results of investigating the operation of the "lost" firm's vibrating conveyor. Nauch. trudy KNIUI no.13:260-263 '64 (MIRA 18:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ACC NR: AP6031790 SOURCE CODE: UR/0064/66/000/007/0038/0040

AUTHOR: Atroshchenko, V. I.; Yefimov, V. T.; Litvinenko, I. I.; Alekseyev, V. N.; Kutovoy, V. V.; Abrosimova, A. M.; Galinskiy, A. G.; Gollus, L. H.

ORG: none

TITLE: Film-type autoclave for the production of concentrated nitric acid

SOURCE: Khimicheskaya promyshlennost', no. 7, 1966, 38-40

TOPIC TAGS: nitric acid, nitrogen compound, chemical engineering, chemical reactor, chemical plant equipment

ABSTRACT: A film-type autoclave (liquid reagents flow over the packing in form of a film) packed with aluminum coil coated with a fluorinated resin for production of concentrated nitric acid is described and its advantages over the conventional flooded-type autoclave are pointed out. The schematic of the autoclave is shown in figure 1. 98.4% nitric acid was obtained in this film-type autoclave at 25 atm, $N_2O_4:H_2O$ ratio of 8.5-8.9, and a contact time of 17 min. At 40 atm and $N_2O_4:H_2O$ = 8.1-8.7 and 17 min contact time, the acid concentration was equal to 98.7-99.2%. The oxygen consumption was close to the stoichiometric amount. It was found that the film-type autoclave is twice as effective as the flooded-type autoclave and that it compared very favorably from the standpoint of corrosion. Orig. art. has: 4 figures, 2 formulas.

UDC: 661.565 : 66.023.7

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ACC NR: AP6031790

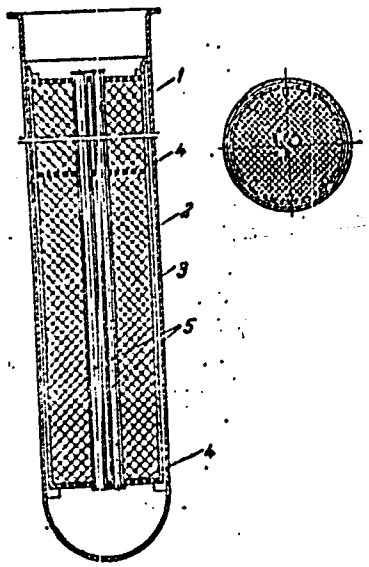

Fig. 1. 1--vessel; 2--shell; 3--coated aluminum coil; 4--grid; 5--concentrating tubes.

SUB CODE: 11/07/ SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.S. [Lytvynenko, I.S.]

Mechanized filling of planes with poisonous chemicals. Mekh. sil'. hosp. 14 no.7:14-15 Jl '63. (MIRA 17:2)

1. Upravlyayushchiy Zvenigorodskim rayonnym ob"yedineniye "Sil'-gosptekhnika", Cherkasskoy oblasti.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I. V. [redacted]

Encephalopathy caused by salvarsan and ending in recovery. Vest. derm. i ven. 31 no.1:52 Ja-F '57. (MIRA 10:7)
(SALVARSAN) (BRAIN--DISEASES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Nonspecific urethritis in males. Vest. derm. i ven. 33 no.1: 81-82 Ja-F '59. (MIRA 12:3)

(URETHRITIS
nonspecific (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ALESKEROVA, Z.T.; KRITSUK, G.S., LI, P.F., LITVINENKO, I.V.; OSADCHAYA, D.V.; OSTROUMOVA, A.S.; OSYKO, T.I.; RAVDONIKAS, O.V.; ROSTOVTSEV, N.N.; SIMONENKO, T.N.; TOLSTIKHINA, M.A.; KHESIN, B.E.; BABINTSEV, red. izd-va; KRYNOCHKINA, K.V., tekhn.red.

[Geological structure and oil-producing prospects of the West Siberian Plain] Geologicheskoe stroenie i perspektivy neftegazonosnosti Zapadno-Sibirskoi nizmennosti. Pod obshchei red. N.N.Rostovtseva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1958. 390 p. (MIRA 11:12)

1. Leningrad. Vsesoyuznyy geologicheskiy institut.
(West Siberian Plain--Petroleum geology)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Nomograms for establishing seismic profiles by approximation. (MLRA 8:10)
Prikl.geofiz.no.13:41-52 '55.
(Seismology)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/630/60/000/002/002/006
D055/D114

AUTHOR: Grachev, Yu.N.; Dekhnich, M.Ya.; Litvinenko, I.V.; Nekrasova, K.A.; Sosnovskaya, A.V.

TITLE: Deep geophysical investigations on the territory of the Baltic Shield

SOURCE: International Geological Congress, 21st. Copenhagen, 1960. Doklady sovetskikh geologov, problema 2: Geologicheskiye rezul'taty prikladnoy geokhimii i geofiziki. Razdel II: Geofizika. Glubinnoye stroyeniye zemli po geofizicheskim dannym, 43-50

TEXT: This is an account of deep geophysical research carried out over part of the Baltic Shield in 1958, by the "Spetsgeofizika" Office and the Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (All-Union Scientific Research Institute of Geology.). The method of deep seismic probes evolved under the guidance of Academician G.A. Gamburtsev was used to cover a latitudinal 200-km profile across the northern part of Karelia. With comparatively small charges clear recordings of the basic groups of waves were obtained. The waves were considerably more varied and richer in dynamic characteristics than on the Russian Platform. The use of combined systems

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of contrary and parallel hodographs from four shot-points, facilitated the tracking of various groups of waves corresponding to the different boundaries of separation in the Earth's crust. Seismic probes facilitated a detailed study of the upper parts of the profile of pre-Cambrian crystalline strata. With the use of non-lengthwise profiles, not only was a section of the Earth's crust along the line Kem'-Ukhta obtained, but also an idea of the position of the Mohorovičič discontinuity. Nevertheless, the cost of the deep seismic investigations was no greater than that of ordinary seismic oil-prospecting. The results obtained, facilitated the division of the crust according to its elastic properties, into several layers in the particular area of the Baltic Shield. The boundary at a depth of 10-15 km is most clearly marked, and this is related to the basalt surface. The boundary at 35-38 km is related to the Mohorovičič discontinuity. The geological interpretation of all deep boundaries of division at the given stage of research is not yet sufficiently clear. Apart from their relevance to the Baltic Shield, these investigations admit a more critical evaluation of the results of similar work in regions covered by a sedimentary top. There is reference to the work carried out by F. Berch on granite. There are 3 figures.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/169/61/000/009/003/056
D228/D304

AUTHORS: Litvinenko, I. V., Dekhnich, M. Ya., and Nekrasova, K. A.

TITLE: Deep seismic sounding in the territory of the Baltic shield

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 5-6, abstract 9A36 (V sb. Seysmich. issled. no. 4, M., AN SSSR, 1960, 47-54)

TEXT: Deep seismic sounding was carried out in 1958 in the territory of Kareliya along the Kem'-Ukhta road. Certain side(forest) roads were used in addition to the main road. The small profile distortion was not reflected in the quality of the results of the work. The operative area is formed of ancient, highly metamorphozed rocks of a variable composition. The profile's eastern part is confined to the region where the oldest Archean fold structures (of the Belomorides) are developed, and the western part intersects the younger Kareliyan folding. Observations were made from four explosion points 50 - 80 km apart from each other; the

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D228/D304

Deep seismic sounding...

distance between the seismic detectors was equal to 100 m. Deep seismic sounding was conducted in conjunction with other geophysical observations (magnetometry, gravimetry). In addition, parametric soundings with a length of 200 - 300 m were undertaken at a number of exposures in order to study the uppermost part of the section of crystalline rocks in greater detail. The hodographs of six main wave-groups (I, II, III, IV, V, and M) were obtained through the preliminary processing of the results. The clearest boundaries of velocity variation at which reflected and leading waves arise are as follows: horizon III, V_g = 6600 m/sec, depth 10 - 15 km; horizon M (the Mohorovicic boundary), V_g = 8100 m/sec, depth 34 - 38 km. Boundary III is evidently connected with the surface of the "basalt" layer. Horizon II (V_g = 6400 m/sec) is distinguished with less authenticity at a depth of about 5 km. This horizon is traced well only in the 100 - 140 km section of the Kem'-Ukhta profile—in the region where the zone of the East Kareliyan synclinal-structure is developed. Seismic boundaries IV and V, recorded in the "basalt" layer, still need to be made more precise; the velocity change at these boundaries is small. The

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general rise of the Mohorovicic surface is outlined in a northeasterly direction to the side of the spacious region of Belomoride development. On the whole, the crust evidently has a smaller thickness in the area where the White Sea fold-structure is developed. Apart from the crust's horizontal layering, the data of the deep and parametric seismic-sounding permit the establishment of vertical zones of tectonic dislocations and contacts between rocks of a different composition. Abrupt variations in the recording intensity, the strong absorption of elastic vibrations, breaks in the correlation, etc. are noted in the zones of tectonic dislocation. The zone of abyssal fractures--approximately in the middle of the studied profile--is most authentically established. In the geologic respect this zone is characterized by the articulation of the Belomorides with the Karelides and by the devlopment of grandiorite intrusions with a clearly-oriented drainage system. [Abstracter's note: Complete translation.]

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Characteristics of Mesozoic and Cenozoic cross sections of the southern part of the West Siberian Plain based on the propagation velocity of elastic waves. Inform.sbor.VSEGEI no.45:119-130 '61. (MIRA 14:12)

(West Siberian Plain--Seismic prospecting)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

S/169/62/000/007/005/149
D228/D307

AUTHORS: Grachev, Yu.N., Dekhnich, M.Ya., Detenyshev, V.G., Litvinenko, I.V., Nekrasova, K.A. and Sosnovskaya, A.V.

TITLE: Deep regional geophysical investigations on the Baltic Shield's territory

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 7, abstract 7A37. (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 45)

TEXT: Complete translation. See RZhGeofiz, 1962, 1A50. [Abstracter's note:

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Geological interpretation of seismic horizons in the Mesozoic and Genozoic cross section of the southern part of the West Siberian Plain. Inform.sbor.VSEGEI no.45:107-118 '62. (MIRA 14:12)
(West Siberian Plain--Seismic prospecting)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

OZEROV, D.K.; YERMILOVA, N.I.; LITVINENKO, I.V.

Using the dynamic theory in interpreting seismic material in northern Karelia. Vop. din. teor. raspr. seism. voln no.4:44-60 '62. (MIRA 15:10)

(Karelia—Seismic prospecting)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V. [Lytvynenko, H.V.]; RADCHENKO, I.V.

Thermal conductivity of aqueous solutions of electrolytes as a structure-sensitive property. Ukr.fiz.zhur. 7 no.5:539-548 My '62. (MIRA 16:1)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Electrolyte solutions) (Heat--Conduction)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Compressibility of aqueous solutions of electrolytes and the hydration of anions and cations. Zhur.strukt.khim. 4 no.6: 830-836 N-D '63. (MIRA 17:4)

1. Dnepropetrovskiy metallurgicheskiy institut.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Using the seismic method for studying the deep structure of the Baltic Shield. Zap. LGI 46 no.2:3-13 '63.
(MIRA 17:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.; NEKRASOVA, K.A.

Differentiation of crystalline rocks according to their elastic properties using northern Karelia as an example. Zap. IGI 46 no.2:22-27 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

New seismic data on the structure of the earth's crust in the area of the Baltic Shield. Dokl. AN SSSR 149 no.6:1409-1411 Ap '63. (MIRA 16:7)

1. Leningradskiy gornyy institut im. G.V.Plekhanova. Predstavleno akademikom D.V.Nalivkinym.
(Baltic Shield--Earth--Surface)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, I.V.

Anion and cation interaction with molecules of a solvent and the volumetric effects of hydration. Ukr. fiz. zhur. 9 no.4: 405-412 Ap '64. (MIRA 17:8)

1. Dnepropetrovskiy metallurgicheskiy institut.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

L 00363-66 EWT(1)/EWP(e)/EPA(s)-2/EWT(m)/EWP(i)/EPF(n)-2/EPA(w)-2/T/
EWP(k)/EWP(b)/ETC(m) WW/GG/WH
ACCESSION NR: AP5021608 UR/0286/65/000/013/0077/0077 35 B

AUTHORS: Litvinenko, I. V.; Bibik, A. P.; Radchenko, I. V. 44,55 44,55 44,55 44,55

TITLE: Detector for determining the thermal conductivity of liquids by the method of heating a filament under nonstationary thermal conditions. Class 42, No. 172519

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 77

TOPIC TAGS: thermal conductivity, fluid

ABSTRACT: This Author Certificate presents a detector for determining the thermal conductivity of liquids by the method of heating a filament under nonstationary thermal conditions. The detector consists of a thin wire-heater which at the same time serves as a resistance thermometer (see Fig. 1 on the Enclosure). To obtain the possibility for producing measuremnets of the thermal conductivity of conducting liquids without a significant increase in detector thickness, the detector is made of a microwire in glass insulation. Orig. art. has: 1 diagram.

ASSOCIATION: none
SUBMITTED: 16Mar64 ENCL: 01 SUB CODE: TD,ME
NO REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

L 00363-66

ACCESSION NR: AP5021608

ENCLOSURE: 01

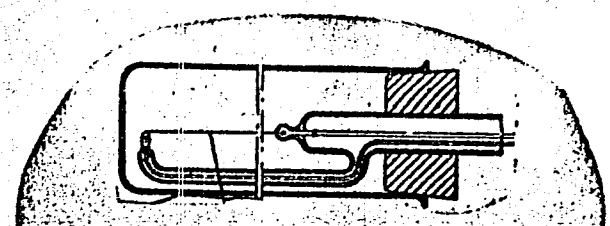

Fig. 1. microwire in glass insulation

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L 8615-66 EWP(e)/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HM/WH

ACC NR: AP5027049 SOURCE CODE: UR/0120/65/000/005/0252/0253

AUTHOR: Litvinenko, I. V.; Bibik, A. P.; Radchenko, I. V.

ORIG: Dnepropetrovsk Metallurgical Institute (Dnepropetrovskiy metallurgicheskiy institut)

TITLE: The welding of glass-coated microwires to thick glass-coated connectors

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1965, 252-253

TOPIC TAGS: glass coating, microwire, welding technology, welding

ABSTRACT: This note describes a new method for welding the end of a glass-coated copper microwire to a glass-coated thicker platinum wire. The welding proceeds under the glass layer and the weld proper remains reliably isolated by a continuous glass layer. The proposed method has been used successfully in the construction of a sensor for heat conduction determination in current conducting liquids using the nonstationary heated filament method. The microwire used was 20 and 12 μ in diameter (resistivity of 70 and 200 ohm/m, respectively) and had coatings 10 and 4 μ thick. Orig. art. has: 3 figures.

UDC: 621.791.762:621.08

SUB CODE: IE, MT / SUBM DATE: 15Jan65 / ORIG REF: 001/ OTH REF: 002

Card 1/1

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

L 60900-67 EWT(1) GW

ACC NR: AR6009028 SOURCE CODE: UR/0169/65/000/010/G002/G002

AUTHOR: Litvinenko, I.V.

ORG: None

TITLE: Earth crust structural features of the eastern part of the Baltic shield

SOURCE: Ref. zh. Geofizika, Abs. 10G5

REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory. M., Nedra, 1965, 70-74

TOPIC TAGS: earth crust, earth crust structure, seismic prospecting, seismic prospecting data

ABSRACT: Results of seismic soundings in depth, conducted in the Northern Karelia and on the Kola peninsula along two profiles are given and conclusions regarding the structure of the ancient shields presented. The basic depth of the crust shows layers of different elasticities. The structure is complicated and defies description by the simple concepts of "granite" or "basaltic" layers. The upper part of the "granite" layers on the ancient shelf is exposed. A block pattern of earth crust structure is present and particularly noticeable in the upper layers, down to a 5 - 8 km depth. Seismic boundaries at depth may have been due to a prolonged rise and subsequent erosion of the shield. Zones of breaks at depth are found throughout the crust depth, usually at the butts of the structure-facial zones. [Translation].

UDC 550.311(477)

SUB CODE: 08/ SUBM DATE: 00

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ACC NR: AT6028371 (N) SOURCE CODE: UR/0000/65/000/000/0070/0074

AUTHOR: Litvinenko, I. V.

ORG: none

TITLE: Crustal structue of the eastern Baltic shield

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 70-74

TOPIC TAGS: seismic sounding, elastic property, metamorphosed rock, ~~crustal block~~, seismology, Earth crust, STRATIGRAPHY, SEISMIC PROSPECTING / KOLA PENINSULA

ABSTRACT: Results of deep seismic sounding and other geophysical investigations conducted in the northwestern Kola Peninsula and in northern Karelia revealed that the crust consists of several layers, with different elastic properties and broken into blocks. The crustal section of the shield differs from that of the Russian platform and the Barents Sea. Most of the crustal shield is composed of the basalt layer. The granite layer is reduced in thickness and may be absent in some regions. The Pechenga series is closely associated with the basalt layer. Zones of different structure and facies have different velocity sections. The petrological composition varies within the basalt layer. In some zones the basalt layer appears to consist of gabbro-diorite types of rocks, while in others it consists of highly metamorphosed

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

ACC NR: AT6028371

rocks such as charnockite. Seismological investigations suggest the presence of deep-seated fault zones separating crustal blocks with different geological histories. Methods of studying the block structure of the crust are not yet sufficiently well developed, though this problem is not less important than the problem of the crustal vertical layering. The terms "basalt" and "granite" do not define the entire multiform composition of the layers. The Baltic shield where the basalt layer is fairly shallow appears to be an area quite favorable for such studies.

SUB CODE: 08/ SUBM DATE: 06Jan65/

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, K. L.

(19)

Baku, 18-23 Sept 1962

Regularities in the Formation and Distribution of Endogenous Mineral Resource Deposits, 8/011/63/000/001/002/002

The Third All-Union Conference on... A006/A101

Group 2 included reports on-- endogenous deposits in other synclinal regions, such as mercury formations in Siberia and the Far East (V. A. Kuznetsov), pyrite deposits in the Ural (S. N. Ivanov), Kimeridgian and Alpine metallogeny in Uzbekistan (I. Kh. Khamrabayev); ore region types in the Pacific area (Ye. A. Radkevich); metallogeny in Tadzhikistan (K. I. Litvinenko); hydrothermally transformed rocks in the Trans-Carpathian region (M. Yu. Fishkin) peculiarities in magmatism and metallogeny of the Mountaneous Crimea (V. I. Lebedinskiy), antimony-mercury fields (M. A. Karasik) and others. Group 3 included reports on the classification of metallogenous zones and provinces of the Earth crust (D. I. Gorzhevskiy); classification of metallogenous zone types of the Earth crust (V. N. Kozerenko); classification of magmatogenous non-metallic mineral resources as a basis of prognoses and prospecting (V. P. Petrov); types of metallogenous provinces in synclinal regions of the USSR (A. I. Semenov); principles of geological zoning on the example of Central Asia (K. L. Babayev); comparative characteristics of metallogeny in Malyy Caucasus and the Kamchatka-Koryak zone (I. G. Magak'yan), some particularities of metallogeny in the Mediterranean geosynclinal region (G. A. Tvalchrelidze); rootless plutons and some peculiarities in the magmatism of moving zones (A. P. Lebedev); paragenetic ore complexes (P. S. Saakyan) the part of deep-lying breaks in metallogeny of syncline regions on the example of the Caucasus (E. Sh. Shikhalibeyli). The closing report was read by A. V. Sidorenko, Minister of Geology and Preservation of Mineral Resources of the USSR.

Izvestiya Ak nauk SSSR, Seriya Geologicheskaya, No. 1, 1963, pp 126-128

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, K.I.; MESKHI, A.M.; AFINOGENOVA, L.N.

Alpine igneous activity and metallogeny in Tajikistan. Zakonom. razm.polezn.iskop. 7:380-381 '64. (MIRA 17:6)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Tadzhikskoy SSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L.

Machine invented by the locksmith Stepanov. Tekh. mol. 28 no. 12:11 '60. (MIRA 13:12)
(Molding machines--Technological innovations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

GELLERMAN, Ya.M., kand. biolog. nauk, assistent; LITVINENKO, L.A., aspirant; KNYAZEV, A.N., student

Stimulating tomato growth with repeated action of sublethal temperatures on the roots. Izv. TSKHA no.1:38-48 '63. (MIRA 16:7)

(Plants, Effect of soil temperature on)
(Tomatoes)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

NOVIKOV, I.M.; SAPRONOV, V.A.; ONISHENKO, Z.V.; SIMAKOVA, E.P.; BEL'SKAYA, Yu.R.; BALASHOVA, T.L.; Prinimali uchastiye: KALINICHENKO, V.N.; LITVINENKO, L.A.

Granulation of butadiene-styrene and natural rubber in the Dniepropetrovsk Rubber Tire Plant. Kauch. i rez. 22 no.12: 44-48 D '63. (MIRA 17:9)

1. Dnepropetrovskiy shinnyy zavod (for all except Kalinichenko, Litvinenko). 2. Dnepropetrovskiy filial Nauchno-issledovatel'skogo instituta shinnoy promyshlennosti (for Kalinichenko, Litvinenko).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

GHELLERMAN, I.M.; LITVINENKO, L.A.; KNEAZEV, A.N.

Stimulation of tomato growth by periodic action of sub-lethal temperature on the roots. Analele agric zooteh 17 no.6:42-54 N-D'63

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L.B. [Lytvynenko, L.B.]

Gathering straw behind the combine. Mekh. sil'. hosp. 9 no. 7:3-5 Jl '58. (MIRA 11:8)

1. Kharkivs'ka doslidna stantsiya Ukrains'kogo naukovo-doslidnogo instituta mekhanizatsii sil's'kogo gospodarstva.
(Straw)
(Combine(Agricultural machinery))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L. B., Candidate Agric Sci (diss) -- "Investigation and selection of complex machinery for harvesting straw in the forest steppe of the Ukrainian SSR". Khar'kov, 1959. 20 pp (Min Agric Ukr SSR, Ukr Acad Agric Sci, Ukr Sci Res Inst of Mechanization and Electrification of Agric UNIIMESKh, Khar'kov Experimentation Station), 150 copies (KL, No 24, 1959, 146)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L.B., kand.sel'skokhoz.nauk; UZHIK, G.S., inzh.

Universal crane-type hay stacker. Trakt.i sel'khozmash. 31 no.9:31-32 S '61. (MIRA 14:10)

1. Khar'kovskaya stantsiya Ukrainskogo nauchno-issledovatel'skogo instituta mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Loading and unloading) (Hay—Harvesting)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L.F., mladshiy nauchnyy sotrudnik

Late results of repeated corneal transplantation. Uch. zap. UEIGB 4:45-50 '58. (MIRA 12:6)

1. Ukrainskiy eksperimental'nyy institut glaznykh bolezney i tkanevoy terapii imeni akademika V.P. Filatova.
(CORNEA--TRANSPLANTATION)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

L 39434-65 EWT(a)-2/EWG(c)/EWT(j)/EWT(r)/EWG(v)/EWT(1)/FS(v)-3 Pe-5 DD

ACCESSION NR: AP5007667 S/0020/65/160/006/1427/1429

AUTHOR: Lebedev, S. I.; Litvinenko, L. G.; Kursanov, A. L.

TITLE: Chlorophyll biosynthesis in red and near infrared regions

SOURCE: AN SSSR, Doklady, v. 160, no. 6, 1965, 1427-1429

TOPIC TAGS: corn, chlorophyll, biosynthesis, monochromatic light, red light, low intensity, chromatography, spectrophotometry

ABSTRACT: Chlorophyll biosynthesis was investigated in etiolated corn sprouts under conditions of red light (660 millimicrons) and near infrared light (770 millimicrons) of low intensities. The sprouts were exposed to a monochromatic light with an intensity of 40 micron watts/cm^2 for the red light and 33 micron watts/cm^2 for the near infrared light for periods of 1 to 60 min. All operations on the etiolated plants were conducted in the presence of a very weak green light to safeguard chlorophyll biosynthesis. Green pigments were determined in the etiolated plants before and after light exposure by paper chromatography followed by spectrophotometry on an SF-4 in the 600-700 millimicron region. Results indicate that near

Card 1/2

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L 39434-65

ACCESSION NR: AP5007667

infrared radiation displays an inhibiting effect on chlorophyll biosynthesis, particularly on reduction of protochlorophyllide into chlorophyllide. Chlorophyll formation in the etiolated corn sprouts under the given experimental conditions proceeded according to the generally accepted plan for the final stage of chlorophyll biosynthesis: protochlorophyllide to chlorophyllide a to chlorophyll a. It was established that chlorophyll biosynthesis proceeds normally under red light of low intensity, but is inhibited under near infrared light of low intensity. Orig. art. has: 4 figures.

ASSOCIATION: Ukrainskaya sel'skokhozyaystvennaya akademiya (Ukrainian Agricultural Academy)

SUBMITTED: 07Oct63 ENCL: 00 SUB CODE: LS

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Card 2/2

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KLIMENKO, I.P., arkhitektor; TATSIY, O.O., vidpovidal'nyy redaktor; LITVINENKO, L. tekhnicheskiy redaktor.

[Standard plan for a Kr-T 1 covered threshing floor] Typovyi proekt krytoho toku Kr-T 1. Kyiv, Derzh.vyd-vo tekhn.lit-ry Ukrainy, 1947. 7 p. (MLRA 10:4)

1. Ukraine. Upravlinnya v. spravakh sil's'koho i kolhospnoho budivnitstva. (Farm building)

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LITVINENKO, L.G. [Lytvynenko, L.H.]

Effect of certain organic substances on pigment in Enteromorpha. Pratsi Od. un. zbir. mol. vchen. un. 148 no.3:201-206 '58 (MIRA 13:3)

1. Nauchnyy rukovoditel' - akademik Ukrainskoy akademii sel'skokhozyaystvennykh nauk, prof. S.I. Lebediev.
(Algae) (Chromatophores)

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LITVINENKO, L.G. [Lytvyenko, L.H.]

Effect of saccharose on the pigment content of certain Black Sea algae. Ukr.bot.zhur. 16 no.6:49-54 '59. (MIRA 13:5)

1. Odesskiy gosudarstvennyy universitet im.I.I.Mechnikova, kafedra fiziologii rasteniy.
(Black Sea--Algae) (Sucrose)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930210018-7

LITVINENKO, L. G., Cand Bio Sci — (diss) "The Effect of organic substances on the content of pigments, the intensity of photosynthesis and respiration of seaweed," Leningrad, 1960, 14 pp (Botanical Institute im V. L. Komarov, AS USSR) (KL, 36-60, 114)

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LITVINENKO, L.G.

Effect of organic substances on oxygen exchange in algae of the Black Sea. Fiziol. rast. 7 no.4:466-469 '60. (MIRA 13:9)

1. Odessa State University, Ukrainian S.S.R.
(Black Sea--Algae) (Plants, Effect of organic compounds on)
(Photosynthesis)

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LITVINENKO, L.G. [Lytvynenko, L.H.]

Effect of organic substance on the photosynthesis and respiration of certain Black Sea algae. Ukr.bot.zhur. 17 no.1:12-18 '60. (MIRA 13:6)

1. Odesskiy gosudarstvennyy universitet, kafedra fiziologii rasteniy.
(Photosynthesis)
(Plants--Respiration)
(Black Sea--Algae)

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LITVINENKO, L.G. [Lytvyenko, L.H.]

Effect of glycocoll on the pigment content of Enteromorpha. Ukr. bot. zhur. 17 no.4:36-40 '60. (MIRA 13:9)

1. Institut botaniki AN USSR. Otdel biokhimii rasteniy.
(Algae) (Glycine) (Chlorophyll)
(Carotenoids)

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