"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Investigation in the Isoxazole Series. VII. Chloromethylation of Isoxazoles SOV/79-28-10-24/60

The chloromethylation was carried out with paraformaldehyde and hydrogen chloride, dichloro dimethyl ether, monochloro dimethyl ether using various catalysts ($ZnCl_2$, H_2SO_4, $SnCl_4$) and various solvents (hydrochloric acid, sulfuric acid, dichloro-ethane, chloroform). The results are given in table 1. The reaction with paraformaldehyde and hydrogen chloride in the presence of $ZnCl_2$ in dichloro-ethane as well as that with dichloro dimethyl ether showed the best results. It was demonstrated that the easiness of the chloromethylation in the series of isoxazoles increases with the number of methyl groups in the nucleus. It turned out that in all cases when the position 4 in the nucleus of isoxazole is not substituted the chloromethylation reaction tends to that position, which also holds for the 5-phenyl isoxazole. A saponification method of the chloromethyl isoxazoles into the corresponding alcohols by heating the chlorides with an aqueous lead oxide depositing as well as an direct oxidation method

Card 2/3

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Investigation in the Isoxazole Series. VII. Chloromethylation of Isoxazoles SOV/79-28-10-24/60

of the substituted chloromethyl isoxazoles into the corresponding isoxazole carboxylic acids were devised. Table 2 gives the chloromethylation of isoxazole and its homologs. There are 2 tables and 18 references, 8 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: July 29, 1957

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

SOV/79-29-2-39/71

AUTHORS: Kochetkov, N. K., Khomutova, Ye. D.

TITLE: Investigations in the Series of Isoxazole (Issledovaniya v ryadu izoksazola). VIII. Electrophilic Substitution in Isoxazole (VIII. Elektrofil'noye zameshcheniye v izoksazole)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 535-539 (USSR)

ABSTRACT: Many fundamental problems of the chemistry of isoxazole have hitherto remained unsolved in spite of many studies on this subjects. The problem of the aromatic nature of this highly interesting heterocyclic system, for instance, has not yet been explained. In connection herewith, the [illegible] the reactions of electrophilic substitution in the series of isoxazole and their comparison with the corresponding reactions of benzene and the aromatic heterocycles are of certain importance . Though individual nitrations, sulphurizations and halogenations (Refs 1, 2, 3) of some substituted isoxazoles are known, they were not investigated systematically and so far no attention has been devoted to them at all as far as isoxazole is concerned. According to previous nitrations, brominations and mercurations of α-phenyl isoxazole (Ref 4), in the course of which the substitution took

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Investigations in the Series of Isoxazole. VIII. Electrophilic Substitution in Isoxazole

SOV/79-29-2-39/71

place primarily at the isoxazole ring, it was necessary here to draw respective conclusions as to the relative activity of isoxazole compounds in the reactions of electrophilic substitution. Therefore, the simplest representative of this class, i.e. isoxazole itself, was subjected to the above-mentioned reactions. It was shown that isoxazole in electrophilic reactions of substitution is considerably less active than benzene and offers only small yields. On the nitration of isoxazole with a mixture of nitric and sulphuric acid the authors obtained the nitro derivative (melting-point 47°) in a yield of 3.5% only. They determined by experiments that the nitro group can occupy only position 4 in nitro-isoxazole (Scheme 1). Bromination could be carried out only if isoxazole was heated for a while with the equivalent amount of bromine in the presence of pulverized iron. The yield of crystalline bromide (melting-point 44°) amounted to 18%. Also in this case the bromine atom introduced occupies position 4 (Scheme 2). The sulphurization of isoxazole could be carried out only on heating with oleum within a few hours over the boiling water bath (yield of the sulfo acid: 17%). This sulfo acid was identified in the form of its δ-benzyl thiourate: isoxazole

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Investigations in the Series of Isoxazole. VIII. Electrophilic Substitution in Isoxazole

SOV/79-29-2-39/71

is similar to pyridine with respect to its capability of electrophilic substitution. There are 9 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: December 17, 1957

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

5(3)

AUTHORS: Kochetkov, N. K., Khomutova, Ye. D., Likhosherstov, L. M.

SOV/79-29-5-53/75

TITLE: Synthesis of 6-Aryl-Nicotine Acids and 6-Aryl Pyridines (Sintez 6-arilnikotinovykh kislot i 6-arilpiridinov)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1657-1659 (USSR)

ABSTRACT: Earlier papers (Refs 1-4) described the use of β-chlorovinyl ketones and their derivatives for the synthesis of derivatives of nicotinic acid and pyridine. By using aryl-β-chlorovinyl ketones the corresponding aryl-substituted derivatives are obtained. The synthesis may be carried out by condensation of aryl-β-chlorovinyl ketones with acetoacetic ester and ammonia or with aminocrotonic acid ester. In both cases, phenyl-β-chlorovinyl ketone or its derivatives (o-chloro-, p-chloro-, p-nitrophenyl-β-chlorovinyl ketone) yield after several hours of boiling in benzene the corresponding ester of 2-methyl-6-aryl-nicotinic acid in a yield of from 50 to 65 %. The saponified esters were dry-distilled with soda lime and gave the corresponding 2-methyl-6-aryl pyridines. The experimental [illegible] describes the course of the syntheses

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Synthesis of 6-Aryl-Nicotinic Acids and 6-Aryl Pyridines SOV/79-29-5-53/75

and gives the analytical and physical data of the compounds obtained. There are 9 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: April 14, 1958

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

5.3610

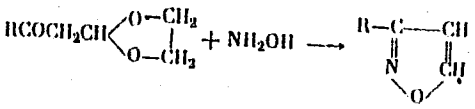
78289
SOV/79-30-3-43/69

AUTHORS: Kochetkov, N. K., Khomutova, Ye. D.

TITLE: Investigation in Isoxazole Series. IX. Synthesis of 3-Substituted Isoxazoles. Cleavage of Isoxazoles With Sodium Amide

PERIODICAL: Zhurnal obchshey khimii, 1960, Vol 30, Nr 3, pp 954-958 (USSR)

ABSTRACT: This paper describes a new method of synthesis of 3-substituted isoxazoles by the condensation of ethylene glycol acetals of β-ketoaldehydes with NH_2OH



(I) $R=C_4H_9$; (II) $R=iso\text{-}C_4H_9$; (III) $R=C_6H_5$.

The reaction is carried out in a water-dioxane solution.

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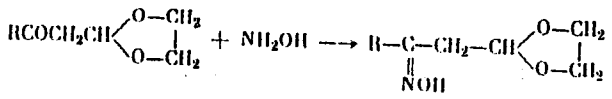
"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Investigation in Isoxazole Series. IX.

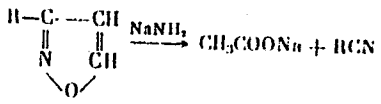
78289
SOV/79-30-3-43/69

The reaction mixture, after mixing, was left to stand for 2 days and then heated on a water bath for 20 hr. It was shown, using 3-phenylisoxazole, that the reaction proceeds through the formation of an intermediate oxime:



(IV)

It was shown that 3-substituted isoxazoles decompose under the action of $NaNh_2$ to form sodium acetate and the corresponding nitrile:



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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Investigation in Isoxazole Series. IX.

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SOV/79-30-3-43/69

The decomposition reaction proceeds readily and the products of decomposition are easily identifiable; it is recommended by the authors as a method of identifying 3-substituted isoxazoles and their structure proof. The following compounds were prepared: 3-phenylisoxazole (III), 65% yield, bp 89-90° (2 mm), n_D^{20} 1.5735, d_4^{20} 1.1408; 3-propylisoxazole (I), 67% yield, bp 74-75° (40 mm), n_D^{20} 1.4435; 3-isobutylisoxazole (II), 77% yield, bp 81-82° (30 mm). There are 9 references, 3 German, and 6 Soviet.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: March 30, 1959

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

S/079/60/030/04/48/080
B001/B002

AUTHORS: Kochetkov, N. K., Khomutova, Ye. D.

TITLE: Investigation of the Isoxazole Series. X. Mercurization of Isoxazoles

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1269-1271

TEXT: With reference to their previous investigation (Refs. 1,2) on the mercurization of isoxazole derivatives, which is known to be very characteristic, the authors here show that both alkylisoxazoles (3- and 5-methyl-, 3,5-dimethylisoxazole) and arylisoxazoles (3-phenylisoxazole) may enter into the mercurization reaction. In all cases mercurization was caused by heating the isoxazole compound with undissolved mercury acetate in boiling water. The mercury acetates (I) thus developing in good yields, may easily be converted into mercury bromides (II) by means of potassium bromide (Scheme). The mercurization of 3-phenylisoxazole is more difficult than that of 5-phenylisoxazole, and that of 3-methylisoxazole more difficult than that of 5-methylisoxazole. No mercurization took place in the mercurization experiment with non-substituted isoxazole, but it

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

Investigation of the Isoxazole Series.
X. Mercurization of Isoxazoles

S/079/60/030/04/48/080
B001/B002

oxidized under separation of mercury (I) salts. The mercurization of isoxazoles which is easier than that of benzene derivatives (Ref. 3), makes the isoxazole cycle more similar to the pyridine cycle (Ref. 2) which mercurizes easily (Ref. 3). The mercurization of isoxazoles differs from the mercurization of the aromatic derivatives by the fact that the reaction with regard to the monosubstituted derivatives is unequivocal, if the development of isomers is possible: in all cases, only one substitution product develops (Ref. 3). The structure of the synthesized mercury compounds was thus confirmed by their conversion into the corresponding bromides (III). It was shown that the mercurization in all cases takes place in position 4 of the isoxazole cycle. There are 4 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: March 30, 1959

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KOCHETKOV, N.K.; KUDRYASHOV, L.I.; MOLODTSOV, N.V.; KHOMUTOVA, Ye.D.

Benzoates of 2,5-dimethoxy-2,5-dehydrofurfuryl alcohols and some of their reactions. Zhur.ob.khim. 31 no.12:3909-3916 D '61. (MIRA 15:2)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Benzoic acid)
(Furfuryl alcohol)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ACCESSION NR: AP5002624 S/0079/64/034/008/2791/2796

AUTHOR: Berezovskiy, V. M.; Artemkina, R. V ; Khomutova, Ye. D.

B

TITLE: Nucleotides, conezymes, phosphate esters. III. Phosphorylation of riboflavin

SOURCE: Zhurnal obshchey khimii, v. 34, no. 8, 1964, 2791-2796

TOPIC TAGS: esterification, phosphate ester, phosphoric acid, phosphate, riboflavin, organic phosphorus compound

Abstract: The esterification of riboflavin by various phosphorylating agents: the mono- and trichlorides of ortho-phosphoric acid, alkyl esters of its monochloride, metaphosphoric and orthophosphoric acids, and orthophosphoric acid in a mixture with phosphorus pentoxide, was investigated; in all cases the reaction does not proceed in a well defined manner. There is a gradual increase in the number of phosphate groups leading to the formation of di- and polyphosphate esters of riboflavin. It was shown that the phosphorylation of riboflavin proceeds exclusively at the primary hydroxyl group of the 5-position of the ribityl radical; the secondary 2',3', 4'-hydroxyls are not esterified. Intramolecular esterification of the secondary 4'-

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ACCESSION NR: AP5002624

hydroxyl by the phosphate group of the 5-position, forming cyclic 4',5'-phosphates, is observed with stronger phosphorylating agents. A method is proposed for separating a mixture of riboflavin and its phosphate esters by partition chromatography on powdered cellulose and preparative electrophoresis on cellulose powder in an ammonia-formate buffer. Orig. art. has 2 figures and 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut (All-Union Scientific Research Vitamin Institute)

SUBMITTED: 28Apr63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 000 OTHER: 010 JPRS

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ACC NR: AP7011827

SOURCE CODE: UR/0079/66/036/010/1749/1752

AUTHOR: Khomutova, Ye. D.; Shapiro, T. A.; Berezovskiy, V. M.

ORG: All-Union Vitamin Scientific Research Institute (Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut)

TITLE: Nucleotides, coenzymes, phosphate esters. XI. On the migration of secondary O-phosphate groups with riboflavin phosphates

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1749-1752

TOPIC TAGS: phosphate ester, coenzyme, phosphate, hydrolysis, vitamin

SUB CODE: 07

ABSTRACT: An effort was made to prepare riboflavin phosphate, phosphorylated on the secondary (2',3',4') hydroxyl groups, the primary hydroxyl group of riboflavin being protected with a trityl group. It was found that phosphorylation of 5'-tritylriboflavin with beta-cyanoethyl phosphate yields the corresponding substituted phosphate ester, 5'-tritylriboflavin-2',3',4'-tri(beta-cyanoethyl) phosphate. When the protective groups (trityl and beta-cyanoethyl) were removed by successive treatment with 10% acetic acid and 2N ammonia solution, the only reaction product was riboflavin-5'-phosphate, instead of the expected riboflavin-2',3',4'-triphosphate, indicating a migration of the phosphate residue from the secondary to the

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UDC: 547.859:577.150.13:577.164.12

C732 0419

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ACC NR: AP7011827

primary hydroxyl group in riboflavin-2',3',4'-triphosphate and simultaneous hydrolysis of the remaining phosphoester groups at the secondary hydroxyls. The same riboflavin-5'-phosphate was the only reaction product when the protective groups were removed in the opposite sequence. Beta-cyanoethyl phosphate smoothly phosphorylates riboflavin under mild conditions, yielding riboflavin-5'-(beta-cyanoethyl) phosphate. The latter is entirely converted in acid medium to riboflavin-5'-phosphate, without any admixture of polyphosphate esters.

Orig. art. has: 1 formula. [JPRS: 40,351]

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ZAVALIN, I.V.; SHIMANSKAYA, Ye.T.; SHIMANSKIY, Yu.I.; Prinimali uchastiye: ARTYUKOVSKAYA L.M., student; KOVALENKO G.F., student; KHOMUTOVA, Z.F., student

Behavior of the density of the solution benzene-propol alcohol near the critical point at the liquid - vapor boundary. Ukr. fiz. zhur. 9 no.5:491-496 My '64. (MIRA 17:9)

1. Kiyevskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

GOLDIN, A.S.; Prinimali uchastiye: KOLPENSKIY, G.P. [deceased]; CHERNYAYEVA, V.G., geolog; PROZOROVSKAYA, A.A.; KHOMUTOVSKAYA, A.K.; CHEBANOVA, O.; KUDRYAVTSEVA, V.

Use of the edaphic-geochemical method of oil and gas prospecting in southwestern Turkmenistan. Zhizn' Zem no.1:146-151 '61. (MIRA 15:6)
(Turkmenistan—Geochemical prospecting)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

FAL'KOVSKIY, Isaak Moiseyevich; LYKOV, A.V., laureat Stalinskoy premii, doktor tekhnicheskikh nauk, retsenzent; KHOMUTSKIY, N.D., kandidat tekhnicheskikh nauk, dotsent; SOKOLOVA, V.Ye., redaktor; EL'KINA, E.M., tekhnicheskiy redaktor.

[Drying and wetting bast fiber materials] Sushka i uvlazhnenie lubovoloknistykh materialov. Izd. 2-e, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshl. tovarov shirokogo potrebleniia SSSR, 1954. 410 p. [Microfilm] (MIRA 8:2)
(Bast) (Drying apparatus)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D., dotsent.

Selecting an efficient method of drying retted flax fiber. Tekst. prom. 17 no.2:11-14 F '57. (MLRA 10:2)

1. Kostromskiy tekstil'nyy institut.
(Flax) (Retting)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Moisture content and density of bast fiber materials. Izv.vys.-ucheb.zav.; tekh.tekst.prom. no.4:39-46 '61. (MIRA 14:9)

1. Kostromskoy tekstil'nyy institut.
(Textile fibers--Testing)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Analytical equations of moisture factors and of the drying rate of materials made from stalk bast fibers. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.5:4-51 '61. (MIRA 14:11)

1. Kostromskoy tekstil'nyy institut.
(Moisture in textiles)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Factors of potential transmission and mass transfer in stalk fiber materials. Izv. vys.ucheb.zav.; tekh.tekst.prom. no.6:45-52 '61. (MIRA 15:1)

1. Kostromskoy tekstil'nyy institut.
(Textile fibers--Testing)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D., dotsent, kand.tekhn.nauk

Designing dryers for wet retted straw. Tekst. prom. 21 no.1:50-52 Ja '61. (MIRA 14:3)

1. Kostromskiy tekstil'nyy institut.
(Flax—Drying)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Mechanism of the drying of fibrous stalk bast materials. Izv.vys.-ucheb.zav.; tekh.tekst.prom. no.1:50-59 '62. (MIRA 15:3)

1. Kostromskoy tekstil'nyy institut.
(Hemp--Drying)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Relative rate of drying of thin bast fiber materials. Izv.vys. ucheb.zav.; tekh.tekst.prom. no.2:46-54 '63. (MIRA 16:6)

1. Kostromskoy tekhnologicheskiy institut.
(Bast—Drying)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Moisture evaporation in the layers of bast fiber materials. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.4:34-41 '63. (MIRA 16:11)

1. Kostromskoy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Investigating the potential of drying in a layer of bast-fiber materials. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.3:41-49 '63. (MIRA 16:9)

1. Kostromskoy tekhnologicheskiy institut.
(Bast—Drying)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Effect of the direction of the process and of the parameters of air and material on the drying potential. Izv. vys. ucheb. zav.; tekh. teks. prom. no.3:43-52 '64. (MIRA 17:10)

1. Kostromskoy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D., dotsent

Determining the drying time of bast fiber materials. Tekst.prom. 25 no.11:76-81 N '65. (MIRA 18:12)

1. Kostromskoy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O. A.

USSR/General Problems of Pathology - Tumors. Cancerogens. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4157

Author : Khomutovskiy, O.A.
Inst : -
Title : The Blastomogenic Action of Radioactive Strontium.

Orig Pub : Fiziol. zh., 1957, 3, No 6, 125-130

Abstract : Rats (40) were administered intra-abdominally 0.5 M curies of Sr^{89} Cl_2/1g of weight; 7 rats received non-radioactive Sr. Within 150-180 days 2 of the rats developed bony sarcomas with metastases in the lungs. No tumors occurred following administration of non-radioactive Sr. The Tumors were inoculated in rats previously irradiated with 150 r. Following the first and second inoculation a positive result was obtained by intraoseous injection of the tumor cells; after the third inoculation the tumors developed only in the muscles. Following the first inoculation the cellular

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

USSR/General Problems of Pathology - Tumors. Cancerogens. U

Abs Jour : Ref Zhur Biol., No 1, 1959, 4157

elements produced a large amount of osteoid tissue; its amount decreased following the consecutive inoculations. The tumors developed within 28 days in the 1st generation and within 6-12 days in the 2nd and 3rd. -- V.M. Shapiro

1. Institut fiziologii im. O.O.Bogomol'tsya Akademii nauk URSR, laboratoriya biofiziki.

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A., Cand Med Sci— (diss) "The effect of pharmacological substances on the elimination of radioactive strontium-89 and calcium-45 from the organism." Kiev, 1958. 12 pp. (Acad Sci UkSSR. Department of Biological Sci). 150 copies. (KL, 38-58, 108).

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY O. A.

USSR / Pharmacology. Toxicology. Various Preparations. V

Abs Jour : Ref Zhur - Biologiya, No, 3, 1959, 13989

Author : Khomutovs'kiy, O. A.
Inst : - On Last Page....
Title : Excretion of Sr^{89} from the Organism of Rats Under Normal Conditions and Under the Influence of Parathyreocrine, Campolon and Sodium Citrate.

Orig Pub : Fiziol. zh., 1958, 4, No. 2, 249-256

Abstract : Sr^{89} was introduced to 4-5-month-old rats weighing 150 plus-or-minus 10 g and to 6-10-month-old rats weighing 170-204 g. The accumulation of Sr^{89} per 1 g of bone was double in the rats of the 1st group what it was in rats of the 2nd group. The rats of Sr^{89} excretion in urine and feces was smaller in rats of the 1st group than

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

GORODETSKIY, Aleksey Afanas'yevich, prof.; SIVACHENKO, Tamara Porfir'yevna; KHOMUTOVSKIY, Otton Al'fredovich; RYABOVA, Era Zinov'yevna; CHEBOTAREV, Ye.Ye., red.; GITSHTEYN, A.D., tekhred.

[Excretion of some radioactive substances from the body] Vyvedenie iz organizma nekotorykh radioaktivnykh veshchestv. Kiev, Gos. med.izd-vo USSR, 1959. 199 p. (MIRA 13:3)

1. Chlen-korrespondent AN USSR (for Gorodetskiy).
(RADIOACTIVE SUBSTANCES--TOXICOLOGY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]

Excretion of radioactive strontium from the organism due to the action of certain complex-forming substances. Fiziol. zhur. [Ukr.] 5 no.5:670-679 S-O '59 (MIRA 13:3)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya biofiziki.
(STRONTIUM IN THE BODY) (OXALIC ACID IN THE BODY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

GORDDETSKIY, A.A. [Horodets'kyi, O.O.]; KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]; OLEYNIKOVA, T.N. [Oleynykova, T.N.]; ANDRYUSHCHENKO, V.V.

Electron microscopic study of kidneys during acute radiation sickness produced by radioactive strontium. Fiziol. zhur. [Ukr.] 6 no.3:405-414 My-Je '60. (MIRA 13:7)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya biofiziki.
(KIDNEYS) (RADIATION SICKNESS)
(ELECTRON MICROSCOPY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

30360

S/205/61/001/004/019/032
D298/D303

27.2400

AUTHORS: Gorodetskiy, A. A., Karupu, V. Ya., Khomutovskiy, O. A., Oleynikova, T. N., and Andryushchenko, V. V.

TITLE: Electronoscopic study of the lungs with chronic radiation sickness induced by radioactive strontium

PERIODICAL: Radiobiologiya, v. 1, no. 4, 1961, 564-566

TEXT: In previous research the authors found that the administration of radioactive strontium in doses sufficient to cause acute radiation sickness induced changes in the lung tissue (hyperemia, hemorrhage, etc.) after 1 - 2 days (Ref. 1: Fiziol. zh., 6, 1960), and with chronic radiation sickness after 2 - 3 days (Ref. 2: Tez. dokl. nauchnoy konferentsii po probleme: "Lechebnoye i diagnosticheskoye primeneniye radioaktivnykh izotopov (The Therapeutic and Diagnostic Use of Radioactive Isotopes)", Khar'kov, 1960). However, there were indications that submicroscopic lesions ensued much earlier. The present work was an attempt to check this. Tests were run on white rats. Sr^{89} in the form of its chloride

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Electronoscopic study of...

salt was injected into the rat's abdominal cavity in a dose of 0.32 μc/g. The animals were killed off at periods ranging from 1 hour to 108 days after irradiation, and slides were prepared from their organs examined under an УЭМ-100 (UEM-100) electron microscope at magnifications of 1500 - 30,000. Only one hour after the administration of radioactive strontium, marked edema of the epithelial and endothelial cells and the connective tissue of the alveolar septa were noted. Particularly large vacuoles were distributed through the protoplasmatic plates of the endothelial and epithelial cells. The lesions affected all the strata of the alveolar septa, blood vessels, bronchi and the pleura. Dense dark granules appeared in the epithelial cells. The authors consider the changes in the membranes and connective tissue layers of the alveolar walls particularly noteworthy since they were of a marked dynamic nature, connected with the course of radiation sickness. In the early period of radiation sickness (1 - 7 days), the membranes become thickened, edematous, pultaceous and delaminated, while at later periods (40th, 90th and 108th days) they are densely packed. As radiation sickness develops, the layers of connective tissue thicken and

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D298/D303

Electronoscopic study of...

develop incorrectly orientated coarse fibers. Electronoscopic examination, therefore, reveals early changes in the cells and membranes of the lung tissue which, to a certain extent, explain the appearance of early hemorrhages in the lungs. The thickening and hardening of the membranes and connective tissue layers at later stages explains the deterioration in the gas metabolism in cases of chronic radiation sickness. There are 5 figures and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The reference to the English-language publication reads as follows: F. N. Low, Anat. Rec., 117, 241, 1953.

ASSOCIATION: Institut fiziologii im. A. A. Bogomol'tsa AN USSR (Institute of Physiology im. A. A. Bogomolets, AS UkrSSR), Kiyev

SUBMITTED: February 13, 1961

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]

Methods of electron microscopy of tissues. Fiziol. zhur. [Ukr.] 8 no.2:260-266 Mr-Ap '62. (MIRA 15:5)

1. Laboratoriya morfologii Instituta fiziologii im. A.A.Bogomol'tsa AN USSR, Kiyev.
(ELECTRON MICROSCOPY) (TISSUES)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A.

Effect of X-ray irradiation on the growth, microscopic and submicroscopic structure of bone sarcomas induced by radioactive strontium. Radiobiologiia 3 no.2:294-299 '63.

1. Institut fiziologii imeni A.A. Bogomol'tsa AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]

Lesion of bone tissue under the effect of radioactive strontium. Fiziol. zhur. [Ukr.] 9 no.4:501-511 Jl-Ag '63. (MIRA 17:10)

1. Laboratory of Morphology and Laboratory of Biophysics of the A.A. Bogomoletz Institute of Physiology of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

GUREVICH, M.I. [Hurevych, M.I.]; KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]
OLEYNIKOVA, T.N. [Oleinykova, T.M.]; BRATUS', V.V.

State of some submicroscopic structures and ribonucleoproteins of the heart muscle in experimental myocardial infarction.
Fiziol. zhur. [Ukr] 9 no.5:622-631 S-O'63 (MIRA 17:4)

1. Laboratoriya fiziologii krovoobrashcheniya i morfologii nervnoy sistemy Instituta fiziologii imeni A.A. Bogomol'tsa AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]

Submicroscopic and microscopic changes in the pancreas under the influence of radioactive strontium. Fiziol. zhur. [Ukr.] 10 no.2:230-240 Mr-Ap '64. (MIRA 18:7)

1. Laboratoriya morfologii Instituta fiziologii im. A.A.Bogomol'tsa AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ACCESSION NR: AP4041162 S/0020/64/156/004/0945/0946

TITLE: Changes in the submicroscopic structure of bone marrow cells at the early stages of radiation sickness caused by radioactive strontium

AUTHOR: Khomutovskiy, O. A.

SOURCE: AN SSSR. Doklady*, v. 156, no. 4, 1964, 945-946, and insert facing p. 946

TOPIC TAGS: bone marrow cell, marrow submicroscopic structure, radiation sickness, radioactive strontium, Sr89, Sr90, radioactive strontium absorption, radiation induced mitochondrial change, ergastoplasmic membrance, marrow cell nucleus, ribonucleoprotein, ribonucleoprotein granule, ribonucleaoprotein radiation sensitivity, cell oxidation reduction process

ABSTRACT: These changes were studied in white rats 1-6 hours after intraabdominal introduction of a 0.32 microcurie/g dose of $Sr^{89}Cl_2$ or $Sr^{90}Cl_2$. The energy absorbed in 6 hours per 1 g of marrow was found at 6 and 12.6 rad respectively. The changes seen in the mitochondria, ergastoplasmic membrances and nuclei were related to

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ACCESSION NR: AP4041162

the state of the ribonucleoproteins (RNP). Changes of the mitochondrial structure depended upon the kind of cell and its maturity. After 1 hour the large mitochondria of the young forms showed e.g. destruction of exterior and interior membrane, with light-colored particles in the center. The ergastoplasmic membrane was less sharply outlined. Change in the number and distribution of RNP granules was less pronounced in the mature cells. Changes were more pronounced with Sr^{90} and showed RNP granules of various size (50-400 A) with a less periodic distribution, an increased number of which were not linked to the membrane. The nuclear ultra-structure showed thinning of exterior and thickening of the interior membrane with occasional membrane pores. S^{89} showed an almost homogenous chromatin, S^{90} its microgranulation. The main changes were seen in the number and size of RNP granules, depending upon the dose and differing for the various cells. Thus RNP of the various cells have varying radiosensitivity. This is related to protein synthesis and is particularly pronounced in young cells which have a high level of oxidation-reduction processes. Orig. art. has: 1 figure.

Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ACCESSION NR: AP4041162

ASSOCIATION: Institut fiziologii im. A.A. Bogomol'tza Akademii nauk USSR (Institute of Physiology, Academy of Sciences, UkrSSR)

SUBMITTED: 10Jun63 ENCL: 00

SUB CODE: LS NR REF SOV: 001 OTHER: 005

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

MAYSKIY, V.A.; KHOMUTOVSKIY, O.A.

Some characteristics of electric reactions and submicroscopic structure in giant neurons of the mollusk Planorbis corneus. Zhur. evol. biokhim. i fiziol. 1 no.4:351-359 Jl-Ag '65. (MIRA 18:8)

1. Laboratoriya obshchey fiziologii Instituta fiziologii imeni A.A. Bogomol'tsa AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]

Microscopic and submicroscopic changes in the adrenal glands in radiation sickness caused by radioactive strontium. Fiziol.zhur. [Ukr.] 11 no.4:504-515 Jl-Ag '65. (MIRA 18:10)

1. Laboratoriya morfologii nervnoy sistemy Instituta fiziologii im. A.A.Bogomol'tsa AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

L 29235-66

ACC NR: AP6019368 SOURCE CODE: UR/0385/65/001/004/0351/0359

28
B

AUTHOR: Mayskiy, V. A.; Khomutovskiy, O. A.

ORG: Laboratory of General Physiology, Institute of Physiology im. A. A. Bogomolets, AN UkrSSR, Kiev (Laboratoriya obshchey fiziologii Instituta fiziologii AN UkrSSR)

TITLE: Certain characteristics of electrical reactions and the submicroscopic structure of the gigantic neurons of the Planorbis corneus mollusc

22

SOURCE: Zhurnal evolyutsionnoy biokhimii i fiziologii, v. 1, no. 4, 1965, 351-359

TOPIC TAGS: neuron, electrophysiology, electron microscopy, nervous system

ABSTRACT: The investigations the results of which are presented in the article were conducted to clarify the electrophysiological characteristics of the giant neurons of the mollusc Planorbis corneus on the basis of an analysis of their submicroscopic structure. Parietal and buccal ganglia were isolated from the animal body and placed in a chilled 2% buffer solution of osmic acid. The dehydration of the objects and enclosure in methacrylate was carried out by the generally accepted method. The electron microscope was used to examine the sections of the object under study. The data obtained indicate that 1) the giant unipolar neurons of the parietal and buccal ganglia of Planorbia corneus molluscs are characterized by an abnormally large value of specific capacity and considerable duration of postsynaptic potentials: 2) the un-

Card 1/2 UDC: 576.31/32:591.18:594:612.014.422/423

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

L 29235-66

ACC NR: AP6019368

usually large surface area is the result of jagged relief and the deep penetration of the trophospongium into the cytoplasm of these cells; the modelling of these giant neurons in the form of a globe without consideration for their submicroscopic structure can entail serious errors when the specific values of cell membrane resistance and capacity are calculated; 3) the functional connections between the neurons in the ganglia of the cornea plana are realized at the level of the axo-axonal synapses. Three types of vesicles which differ in their submicroscopic structure have been discovered in the synapses. Similar types of synaptic vesicles have been discovered recently in the nervous systems of some of the nonvertebrate and vertebrate animals. The presence of several types of vesicles in the synapses and the electrophysiological data obtained permit the assumption that in addition to the cholinergic mechanism of synaptic transmission, a noncholinergic type of transmission exists in the nervous system of the Mollusc. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 15Feb65 / ORIG REF: 007 / OTH REF: 017

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

BRAYNIN, S.A., inzh.; DOMBROVSKIY, Ye.I., inzh.; KHOMUTSKAYA, G.A., inzh.

Using pneumatic tubes for the transportation of metal samples. Mekh. i avtom. proizv. 19 no.9:6-7 S '65. (MIRA 18:9)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Criterion equations of mass transfer for fine bast fiber materials. Izv. vys.ucheb.zav.; tekh.tekst.prom. no.5:27 '64.

(MIRA 18:1)

1. Kostromskoy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N.D.

Studying the relative rate of drying of large-stemmed bast fiber materials. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.1:32-38 '64. (MIRA 17:5)

1. Kostromskoy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTSKIY, N. D.

"Investigation of coefficients of potential conductivity and mass transfer in stem bast fibrous materials."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Kostroma Technological Inst.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

L 44005-66 EWT(m)/EWP(t)/T/ETI/EWP(k) IJP(c) JD/HW

ACC NR: AP6029871 SOURCE CODE: UR/0413/66/000/015/0022/0022

INVENTOR: Voronov, F. D.; Filatov, A. D.; Gun, S. B.; Selivanov, N. M.; Nosov, V. D.; Savel'yev, G. V.; Goncharov, F. I.; Plotnikov, P. I.; Roshkov, S. A.; Kustobayev, G. G.; Polushkin, V. P.; Arkhipov, V. M.; Uziyenko, A. M.; Kolov, M. I.; Kozhevnikov, V. P.; Shapiro, B. S.; Kalugin, V. F.; Grudev, P. I.; Aksenov, B. N.; Khomyachkov, A. P.; Rudakov, Ye. A.; Kuzema, I. D.; Gomzhin, V. V.; Poydyshev, B. N.; Shternov, M. M.

58
B

ORG: none

TITLE: Method of making high-strength steel plates by pack rolling. Class 7, No. 184232

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 22

TOPIC TAGS: high strength steel, high strength steel plate, high strength steel sheet, steel plate rolling, steel sheet rolling

ABSTRACT: This Author Certificate introduces a method of pack rolling high-strength steel plates and sheets up to 10 mm thick and up to 3500 mm wide in a carbon steel envelope. The method includes cleaning, coating, making of the pack, heating, rolling and subsequent heat treatment. To ensure an accurate thickness of the plates

Card 1/2 UDC: 621.771.23

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

L 44005-66

ACC NR: AP6029871

or sheets regardless of their location in the pack, the thickness of the envelope must be at least 0.6 of the total initial thickness of the high-strength plates of the pack. [ND]

SUB CODE: 13/ SUBM DATE: 18Jun64/ ATD PRESS: 5070

Card 2/2 blg

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYACHKOVA, T.A.

Improving the organization of wages in the machine industry. Vest. Akad Kazakh. SSR 13 no.2:19-27 F '57. (MLRA 10:6)
(Kazakhstan--Machinery industry)
(Wages)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMUTOV, N. Ye.

~~Khomutov,~~ N. Ye. Caud Chem Sci

Dissertation: "Investigation of Electrode Processes in the Oxidation of Aniline."

4 March 49

Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev.

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYACHKOVA, T., inzh.-ekonomist; OLEYNIKOV, A., red.

[Serving again] Snova na sluzhbe. Alma-Ata, Kazakh-skoe gos. izd-vo, 1964. 44 p. (MIRA 18:9)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, B.S., insh.

Machine for joining sheet metal. Trakt. i sel'khozmash. no.1:36-37 Ja '58. (MIRA 11:4)

(Metalworking machinery)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, B.S., inzh.

Technology of making MZh-4024A parts for oscillating straw rakes. Trakt. i sel'khozmash. no.3:44 Mr '58. (MIRA 11:5)
(Combines (Agricultural machinery))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, B.S., inzh.

Welding large machinery parts with the MTP-75-9 machine. Trakt. i sel'khozmash. no.8:40 Ag '59. (MIRA 12:11)

1. Rostsel'mash.

(Electric welding)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

MISHCHENKO, V.I., inzh.; KHOMYAK, B.S., inzh.

New methods in making nipples for the SK-3 self-propelled combine. Trakt.i sel'khozmash. no.8:41 Ag '59.
(MIRA 12:11)

(Combines(Agricultural machinery))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, B.S.

Synchronized operation of MTP-75-9 machines. Trakt.i sel'-khozmash. no.1:40 Ja '60. (MIRA 13:4)

1. Rostsel'mash.
(Welding)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, B.S.

Hard-alloy cut-off bushings for automatic cold-upsetting machines. Trakt. i sel'khozmash. no.1:41-42 Ja '65. (MIRA 18:3)

1. Rostovskiy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, B.S.

Increasing the strength of upsetting tools. Mashinostroitel' no.5: 26-27 My '65. (MIRA 18:5)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

L 33020-66 EWT(1)/EWP(m)

ACC NR: AP6014996 SOURCE CODE: UR/0170/66/010/005/0681/0682

AUTHOR: Khomyak, I.

ORG: Warsaw Aviation Institute (Aviatsionnyy institut, Varshava)

47
B

TITLE: The mechanism of the break-up of a jet into large drops

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 5, 1966, 681-682

TOPIC TAGS: jet flow, mathematic analysis

ABSTRACT: The paper is in the nature of a note to an article by M. I. Vivdenko and K. N. Shabalin, published in Inzhenerno-Fizicheskiy Zhurnal, 8, No. 4, 1965. For the end of a jet to have an effect on its break-up it is necessary that the disturbance at the end be transposed toward the start of the jet. The velocity of the propagation of a disturbance in a jet may be determined by the relationship:

$$V = \frac{q}{2\pi l}\lambda. \quad (4)$$

Consequently, as a function of the wave length

$$V = \sqrt{\frac{I_1(2\pi R_0/\lambda)}{I_0(2\pi R_0/\lambda)}\frac{2\pi T}{\rho\lambda}\left(1-\frac{\lambda^2}{4\pi^2 R_0^2}\right)}. \quad (5)$$

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L 33020-66

ACC NR: AP6014996

Here, R is the distance of the surface from the axis in a plane perpendicular to the axis. It follows from this formula that only disturbances with a wave length $\lambda < 2\pi R_0$ can move along a cylindrical jet. However, disturbances of this type, as has been shown, are not the cause of break-up. In other words, disturbances which can cause break-up cannot move from the end to the beginning of the system, and it is impossible to assert that the end of a jet has any effect on its break-up. Orig. art. has: 5 formulas.

SUB CODE: 20/ SUBM DATE: --Apr65/ ORIG REF: 001/ OTH REF: 005

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, T.N. (Cheboksary); KOVALEVA, Yu.N. (Cheboksary); ANDREYEV, G.A. (Cheboksary); AGAS'KIN, V.N. (Cheboksary)

Scoliosis. Ortop., travm. i protez. 26 no.12:80 D '65. (MIRA 19:1)

1. Adres avtorov: Cheboksary, Chuvashskaya ASSR, Bol'nichnyy gorodok, Respublikanskaya bol'nitsa. Submitted June 16, 1965.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ANAN'YEV, N.A.; KHOMYAK, T.N.

Intraosseous fixation clavicular fractures with a nail. Sov. med. 25 no.10:125-126 O '61. (MIRA 15:1)

1. Iz travmatologicheskogo otdeleniya (zav. N.A.Anan'yev) Respublikanskoy bol'nitsy (glavnyy vrach P.L.Yeremin) Chuvashskoy ASSR.
(CLAVICLE FRACTURE) (INTERNAL FIXATION IN FRACTURES)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ANAN'YEV, N.A. (Cheboksary 3, ul. Yaroslavskogo, d.89, kv.6); KHOMYAK, T.N.

Abstracts of articles received by the editors. Ort. travm. i protez. 23 no.10:84 O '62. (MIRA 17:10)

1. Iz travmatologicheskogo otdeleniya (zav.- N.A. Anan'yev) Respublikanskoy bol'nitsy Chuvashskoy ASSR (glavnyy vrach - P.L. Yeremin).

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, T.N.(Cheboksary, Chuvashskaya ASSR, ul. Vinokurova, d.19)

Surgical treatment of dislocations of the acromial and of the clavicle. Ortop., travm. i protez. 24 no.4:59-61 Ap'63. (MIRA 16:8)

1. Iz travmatologicheskogo otdeleniya (zav. N.A. Anan'yev) Respublikanskoy bol'nitsy Chuvashskoy ASSR.
(CLAVICLE—DISLOCATION)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, YA. V.

"Study of Conditions of Water Flow through Spans of Small Bridges Crossing Flooded Ravines." Min. Higher Education USSR, Kiev Automobile Roads Inst., Kiev, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

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

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, Ya.V., kand.tekhn.nauk

Evaluating the economic effect of the speeding up of freight delivery expected as a result of the construction and reconstruction of roads. Avt.dor.i dor.stroi. no.1:226-232 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, Ya.V., kand. tekhn. nauk.

Studying water-flow conditions in flooded under-bridge beds. Trudy Kiev. avt.-dor. inst. no.3:145-153 '57. (MIRA 11:5)
(Hydrodynamics)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

S/274/63/000/001/002/020
D469/D308

AUTHORS: Khomyak, Ye.M. and Tsydypov, Ch.Ts.

TITLE: Diffraction of electromagnetic waves by wedge-shaped obstacles

PERIODICAL: Referativnyy zhurnal, Radiotekhnika i elektrosvyaz', no. 1, 1963, 19-20, abstract 1A126 (Kratkiye soobsh-ch. Buryatsk. kompleksn. n.-i, in-ta, 1962, no. 2, 119-124)

TEXT: Comparison of results obtained experimentally and from calculations, concerning propagation of waves ($\lambda \sim 1$ m) diffracted by screening obstacles of the type presented by mountain peaks. In some cases considerable increase of diffraction was observed as compared to diffraction along a plane surface. In many practical cases more than one peak is encountered along a propagation path. An attempt is made to elaborate a method suitable for practical calculations of such routes. It is thus possible to develop a calculation method for one wedge and apply it singly to every

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peak. The coefficient of field reduction along the path in question relative to a corresponding smooth path, can then be established as the product of reduction coefficients of each individual peak. The present method agrees well with experimental data in many instances, although it is still necessary to develop it further theoretically and compare it with experiments at different frequencies and for different path profiles.

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

L 37638-66 EWT(d)/FSS-2 RB

ACC NR: AP6014149 SOURCE CODE: UR/0106/65/000/012/0019/0026

AUTHOR: Zubritskiy, E. V.; Khomyak, Ye. M.; Tsydypov, Ch. Ts.

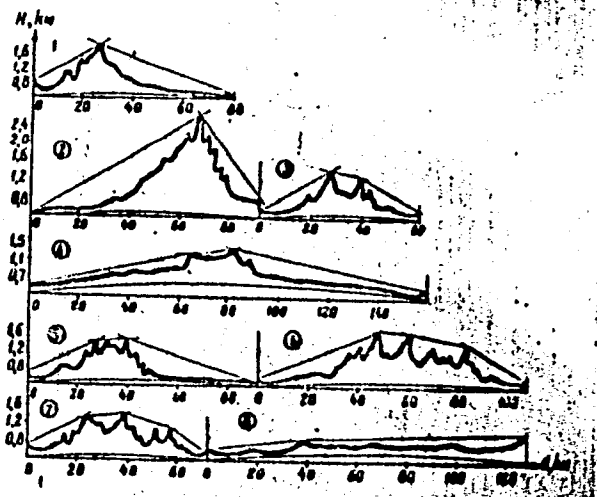
ORG: none

TITLE: Stability of VHF signal level in medium-long mountain-terrain routes [Recommended for publication by the 2nd All-Union Conference on the propagation of VHF in Mountain Terrains, 4-9 July 64, Ulan-Ude]

SOURCE: Elektrosvyaz', no. 12, 1965, 19-26

TOPIC TAGS: VHF communication, VHF wave propagation

ABSTRACT: VHF transmission characteristics were measured on eight 82-157-km long mountain routes (see figure). Two sets of equipment were used: (1) A 10-w AM 100-mc transmitter with G = 7 db and a receiver with a sensitivity of 0.6 μv, G = 7 db; (2) An 80-kv pulsed 209-mc transmitter with G = 8.7 db and a receiver with a



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L 37638-66

ACC NR: AP6014149

sensitivity of 5 μv, G = 7 db. These results are reported: (1) The signal level is fairly stable wherever the diffraction mechanism of the field propagation predominates (short route, single-peak mountain); the signal suffers considerable fading if the diffraction field component is comparable to the tropospheric component (multipeak mountains); (2) The swing and frequency of fluctuation increases with the signal frequency; (3) No pronounced interdependence between the average hourly signal level and the near-ground refraction index was observed, while their diurnal averages show clear correlation; (4) Slow level fluctuations are explainable by their refraction nature. Orig. art. has: 5 figures, 8 formulas, and 4 tables.

SUB CODE: 17, 09 / SUBM DATE: 28Jan65 / ORIG REF: 003 / OTH REF: 003

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

ZUBRITSKIY, E.V.; KHOMYAK, Ye.M. ; TSYDYPOV, Ch. TS.

Stability of a VHF signal level in mountainous routes of medium length. Elektrosviaz' 19 no. 12:19-26 D '65 (MIRA 19:1)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

S/058/63/000/002/064/070
A160/A101

AUTHORS: Khomyak, Ye. M., Tsydypov, Ch. Ts.

TITLE: The diffraction of electromagnetic waves on wedge-shaped obstacles

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 34 - 35, abstract 2Zh213 ("Kratkiye soobshch. Buryatsk. kompleksn. n.-i. in-ta", no. 3, 1962, 119 - 124)

TEXT: Considered are the problems of propagating meter radiowaves along closed mountainous routes, for which the field in the zone of the geometrical umbra may be represented, in accordance to Huygens-Fresnel theory, in the form of a sum of 4 rays re-emitted by an equivalent wedge-shaped obstacle. It is noted that such a calculation method may be expanded to a case of multipeak routes, i.e. routes crossed by a few obstacles each of which is considered to be wedge-shaped. Presented are data of measuring and calculating the field intensity on the wave $\lambda \approx 3$ m for 10 routes. It is shown that when approximating the route by a few wedge-shaped obstacles, a satisfactory coincidence of the experimental and calculated data is observed (the discrepancy does not exceed

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

BULGADAYEV, A.V.; KHOMYAK, Ye.M.

Experiments with microwaves. Priroda 53 no.6:112-113 '64. (MIRA 17:6)

1. Buryatskiy kompleksnyy nauchno-issledovatel'skiy institut Sibirskogo otdeleniya AN SSSR, Ulan-Ude.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, Ye. Ya.

"Streptomycin in the Treatment of the Eyes (Clinical Experimental Investigation)." Cand Med Sci, Kiev Inst for the Advanced Training of Physicians, Kiev, 1953. (RzhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 Jun 55

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

USSR/Pharmacology. Toxicology. Chemotherapeutic Preparations. Anti-Tuberculous Remedies. V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 102916

Author : Khomyak, Ye. Ya.

Inst : Ukrainian Scientific Research Institute of Tuberculosis

Title : Saluzid in the Treatment of Experimental Tuberculosis of the Eyes.

Orig Pub: Materialy po obmenu nauchn. inform. Ukr. n.-i. in-ta tuberkuleza, 1955, vyp. 3, 62-64

Abstract: No abstract

Card 1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, Ye.Ya., kand.med.nauk

Experimental study of the combined action of phthivazid and tuberculin in the treatment of tuberculous diseases of the eyes. Pat., klin.i terap.tub. no.8:225-231 '58. (MIRA 13:7)

1. Iz mikrobiologicheskoy laboratorii (rukovoditel' - prof. R.O. Drabkina) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza im. akad. F.G. Yanovskogo.
(TUBERCULIN) (ISONICOTINIC ACID) (EYE--TUBERCULOSIS)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, Ye.Ya., kand.med.nauk

Phthivazid and tuberculin treatment of patients with tuberculous diseases of the eyes. Pat.klin.i terap.tub. no.8:232-236 '58. (MIRA 13:7)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza im. akad. F.G. Yanovskogo.

(EYE--TUBERCULOSIS) (ISONICOTINIC ACID) (TUBERCULIN)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAK, Ye.Ya., kand.med.nauk

Some problems of tuberculin diagnosis and tuberculin therapy in the clinical aspects of tuberculosis of the eye. Pat., klin. i terap.tub. no.8:237-243 '58. (MIRA 13:7)

1. Iz mikrobiologicheskoy laboratorii (rukovoditel' - prof. R.O. Drabkina) i glaznogo otdeleniya Ukrainskogo nauchno-issledovatel'skogo instituta tuberkuleza im. akad. F.G. Yanovskogo.

(EYE--TUBERCULOSIS) (TUBERCULIN)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A.A.; GUMBURG, D.M.

The main thing is to know how to handle people. Avtom., telem. i sviaz' 2 no.11:34-35 N '58. (MIRA 11:12)

1.Nachal'nik sluzhby signalizatsii i svyazi Severney dorogi (for Khomyakov). 2.Nachal'nik otdela signalizatsii, tsentralizatsii i blokirovki Severney dorogi (for Gumburg).
(Railroads--Personnel management)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A.A.

For high labor productivity. Avtom.telem. i sviaz' 3 no.1:6-7 Ja '59. (MIRA 12:1)

1. Nachal'nik slushby signalizatsii i svyazi Severnoy dorogi.
(Labor productivity) (Railroads--Employees)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A.A.

Arisen problems. Avtom., telem. i sviaz' 6 no.5:5-6 My '62.
(MIRA 15:4)

1. Nachal'nik sluzhby signalizatsii i svyazi Severnoy dorogi.
(Railroads--Signaling)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A.A., starshiy prepodavatel'

Heinrich Rudolph Hertz, 1857-1894; on the seventh-fifth anniversary of his scientific work. Trudy VZEI no.26:3-23 '64.

(MIRA 18:6)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

SVIRSHCHEVSKIY, Yu.I.; KHOMYAKOV, A.G.

The NMP-100 and NMP-55 multiple-bucket excavators. Biul.tekh.-ekon.inform. no.2:31-34 '62. (MIRA 15:3)
(Excavating machinery)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A. I.

SHIBKO, L.K.; KHOMYAKOV, A.I.

Kueginsk efficiency innovators. Put' i put.khoz. no.9:18-20 S '57. (MIRA 10:10)

1. Nachal'nik Kuenginskoy distantsii Zabaykal'skoy dorogi (for Shibko). 2. Zamestitel' nachal'nika Kuenginskoy distantsii Zabaykal'skoy dorogi (for Khomyakov).
(Railroads--Management)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A. I.

USSR/Medicine - Tick Rickettsiosis Dec 53

"Tick Rickettsiosis (Contribution From a Rayon Sanitary-Epidemiological Station)," A. I. Khomyakov

Zhur Mikro Epid i Immun, No 12, p 57

Reviews epidemiological and diagnostic data on the basis of observations of a mild form of tick rickettsiosis made in one of the rural rayons of Siberia.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A.I., kand.med.nauk

Dynamics of vascular reflexes in pulmonary tuberculosis during the intoxication stage and after its resolution [with summary in French]. Probl.tub. 35 no.8:22-30 '57. (MIRA 11:4)

1. Iz kafedry tuberkuleza (nach. - prof. V.M.Novodvorskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(TUBERCULOSIS, pulmonary, physiology,
vasc. conditioned & unconditioned reflexes during intoxication stage (Rus))
(CARDIOVASCULAR SYSTEM, physiology
vasc. conditioned & unconditioned reflexes in pulm. tuberc. during intoxication stage (Rus))

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

KHOMYAKOV, A.I. (Leningrad)

Application of hypnosuggestive therapy in pulmonary tuberculosis. Vrach. delo no.5:69-72 My '61. (MIRA 14:9)
(HYPNOTISM--THERAPEUTIC USE) (TUBERCULOSIS)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0

YESTAF'YEV, G.N., kand. ekon. nauk, red.; KHOMYAKOV, A.I., red.; BAKOVETSKAYA, V.S., red.izd-va; RYLINA, Yu.V., tekhn.red.

[Problems of increasing labor productivity and material incentives in industry] Voprosy povysheniia proizvoditel'nosti truda i material'nogo stimulirovaniia v promyshlennosti. Moskva, Izd-vo "Nauka," 1964. 382 p. (MIRA 17:2)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220015-0"