CIA-RDP86-00513R001030820005-2

LUKSCH, Fr., MUDr.; SEBEK, Tibor, MUDr.

Comparison of cytological and colposcopic examinations of cervical carcinoma. Cesk. gyn. 22/36 no.1-2:119-123 Feb 57.

1. II. por. gyn. klin. KU v Praze. Prednosta doktor lek. ved, prof. MUDr. J. Lukas. Na kolposkopickem vysetreni podileli se rovnez pracovnici oddeleni pro nemoci zen. a det. gyn. fak. polikliniky, III. por kliniky (prednosta doktor lek. ved, prof. MUDr. R. Peter) a pracovnici St. san. v Praze: Doc. MUDr. Vesely, as. MUDr. Mandausova, as. MUDr. Pinta, MUDr. Bradyova a MUDr. Obrdova.

(CERVIX NEOPLASMS, diag. comparison of cytological & colposcopic exam. (Cg))

APPROVED FOR RELEASE: 07/12/2001



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# CIA-RDP86-00513R001030820005-2

LUESCH, Frantisek Studies on the frequency of muclear signs in erithelium of various morous membranes. Cas. lek. cesk. 98 no.39:1226-1229 25 S '59. 1. Vyzkumny ustav endokrinologicky v Praze, reditel doc. MUDr. Karel Sillink. (MICOUS MEMBRANE anat. & histol.) (CHROMOSOMES)

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030820005-2

KLACANSKY, T., C.Sc.; HENZL, M., C.Sc.; CEPELAK, J.; HONTELA, S.; HORSKY, J., C.Sc.; KUCERA, F., C.Sc.; LUKSCH, F., C.Sc.; SONEK, M.; TALAS, M.A possibility for the examination of the hypothálamo-pituitary system in endocrine disorders in gynecology. Cesk. gyn. 26[40] no.8:607-610 Jl. '61. (GINECOLOGY diag) (HYPOTHALAMUS dis) (PITUITARY GLAND dis)

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030820005-2"

CERNOCH, A., doc.; LUKSCH, Fr.

On the problem of spreading of atypical cells in gynecological surgery of malignant tumors. Cesk. gyn. 27 [41] no.6/7:523-529 Ag '62.

l. Gyn.-por. klin. UDL v Praze, prednosta doc. dr. A. Cernoch Vyzk. ustav endokrinol. v Praze, reditel doc. dr. K. Silink. (GYNECOLOGIC NEOPLASMS) (NEOPLASM METASTASES)

APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001



APPROVED FOR RELEASE: 07/12/2001

RABOCH, J.; BARTAK, V.; LUKSCH, F.

Effect of hormone disorders and inflammation of the genitalia on sexual behavior in women. Cas.lek. cesk. 103 no.12:316-319 20 Mr\*64.

1. Laborator pro sexuologii a studium fertility fakulty vseobecneho lekarstvi KU v Praze (vedouci prof.dr. J.Hynie,DrSc) a Vyzkumny ustav endokrinologicky v Praze (reditel: doc.dr. K.Silink).

APPROVED FOR RELEASE: 07/12/2001



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# CIA-RDP86-00513R001030820005-2

LaKsha, H. USSR / Cultivated Plants. L-2 Abs Jour- : Ref Zhur - Biol., No 6, March 1957, No 22695 Author : Luksha, A. Inst : Not given : Results of Experiments on Corn Cultivation Title Orig Pub : Kolkhoznik Sov. Latvii, 1956, No 3, 9 - 10 Abstract : In 1955, on the experimental farm of the Institute of Zootechnique and Zoohygiene, Academy of Sciences Latvian SSR, "Krimulda", soil liming increased the yield of corn green mass by 18 - 29 percent, and increased the number of cobs reaching milky ripeness by 63 percent. Different periods of sowing corn were tested. The corn variety Sterling produced the largest crop when sown on May 26, while variety Kharkovskaya 23 -- when sown on June 3. Tests have shown that in Card : 1/2

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# CIA-RDP86-00513R001030820005-2

USSR / Cultivated Plants.

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Abs Jour : Ref Zhur - Hiol., No 6, March 1957, No 22695

Abstract : loose soils corn should be sown earlier, while in compact and moist soils, later. Tests of varietal selection proved that for Latvia the best ones are yellow Zakarpatskaya and red Zakarpatskaya, which produce large crops of green mass; Sterling and white Osetinskaya are also good varieties Kharkovskaya 23 and Voronezhskaya 76 are recommended. The Voronezhskaya variety ripens early; sown on May 19-26 and reaped on October 12, it produced a fully ripened grain; the yield of cobs constituted 43 centners/hectare. The experiments proved that the dimensions of the corn depend on the manner of its cultivation. The largest yield of green mass is produced when it is sown in a nidus of 5 plants while the nutritive area is 60 x 60 cm.

Card : 2/2

APPROVED FOR RELEASE: 07/12/2001

SHEWCHUK, I.; LUKSEA, E. [Luksa, E.] Simplified methods of the synthesis and purification of 8-mercaptoquinoline (thicoxine) and 8,8'-dichinolyldisulfide. Vestis Latv ak no.2:127-134 '61.
1. Institut khimii AN Latviyskoy SSR.

APPROVED FOR RELEASE: 07/12/2001

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LUKSA, E Analytical use of <u>8-mercaptoquinoline</u> (thioxine) and its derivatives, XII. Composition and structure of copper thioxinate,  $C_nH_{12}CuN_S$ . J. Bankovskis, A. Ievină, and E. Luksa. Laivijas PSR Zindinu Akad. Vēsiis 1950, No. <del>Xol Qlm</del>Russian); cl. C.A. 53, 12944b.—The Cu thioxinate chelate (I) was prepd. by 3 different methods from various derivs; of 8-mercaptoquinolines (II): (1) from II hydrate with Cu<sup>+</sup>; (2) from II hydrate and Cu<sup>++</sup>, and (3) from II disulfide with Cu<sup>+</sup>. All samples of I obtained were water insol. and had the same elemental compn. Their CHCl, solus. had an absorption max. at 432 mµ, and the mol. ex-tinction coeff. were 9600, 0550, and 9500, resp., for the 3 samples. Each Cu<sup>++</sup> required 3 mols, of II to form one mol. of I, while each Cu<sup>++</sup> required 3 mols, of II, one of which serves to reduce Cu<sup>++</sup> to Cu<sup>+</sup>. The only structure of I which is in agreement with all observed properties is of cuprous thioxinate chelate (III) a coordinated compd., where univalent Cu ion has the rare coordination number of 4. 0 29+9 (NB) 4= 2-14) 4=32 (111) A. Gaydaset

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AUTHORS :	Bankovskiy, Yu. A., Iyevin'sh, A. F., SCV/79-28-8-58/66 Luksha, E. A.	
TITLE:	A Simplified Method for Synthesizing 8-Mercaptoquinoline (Thioxine) and Its Potassium and Sodium Salts (Uproshchennyy metod sinteza 8-merkaptokhinolina (tiooksina) i polucheniye yego kaliyevoy i natriyevoy soley)	
PERIODICAL:	Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp. 2273 - 2276 (USSR)	
ABSTRACT :	Thioxine was first synthesized by Edinger (Edinger)(Ref 1). As the authors showed, this reagent appears to be a very valuable reagent for the qualitative and quantitative de- termination of trace amounts of palladium, copper, molybdenum, rhenium manganese, and other elements. Earlier, one of the authors (Ref 2) had refined the carrying out of a single intermediate stage in the Edinger thioxine synthesis. In this synthesis the production of an intermediate product, the benzoyl derivative of thioxine, is not easy. It was shown by the authors that this intermediate step can be by-passed. To do this, only the sodium salt of thioxine is needed; this salt	
Card 1/3	forms by reacting the alkali base with the chloro-tin salt(I).	

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# CIA-RDP86-00513R001030820005-2

A Simplified Method for Synthesizing 8-Mercaptoquinoline SOV/79-28-8-58/66 (Thioxine) and Its Potassium and Sodium Salts

> The sodium salt is oxidized with hydrogen peroxide to the disulfide (II), which precipitates out of the alkaline solution. The disulfide can be easily purified and reduced to the thioxine (III). The most convenient and energetic reducing reagent appeared to be hypophosphoric acid (potassium hypophosphite in hydrochloric acid solution). This reaction occurs without the formation of by-products (see the reaction scheme). The synthesized potassium salt of thioxine gan be stored without decomposition. The composition of the potassium and the earlier synthesized sodium salt was established. The reduction of the disulfide to thioxine and the synthesis of its potassium and sodium salts are described in the experimental section. There are 8 references, 0 of which is Soviet.

ASSOCIATION: Institut khimii Akademii nauk Latviyskoy SSR (Institute of Chemistry, AS Latvian SSR)

SUBMITTED: June 19, 1957 Card 2/3

APPROVED FOR RELEASE: 07/12/2001

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STATISTICS est and

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5(2), 5(3) AUTHORS:	SOV/75-14-2-14/27 Bankovskiy, Yu. A., Iyevin'sh, A. F., Luksha, E. A.	
TITLE:	Analytical Application of 8-Mercaptoquinoline (Thiooxine) and Its Derivatives (Analiticheskoye primeneniye 8-merkapto- khinolina (tiooksina) i yego proizvodnykh). Communication 4. Photometric Determination of Small Amounts of Manganese (Soobshcheniye 4. Fotometricheskoye opredeleniye malykh kolichestv margantsa)	
PERIODICAL:	Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 2, pp 222-226 (USSR)	· · ·
ABSTRACT :	In alkaline and ammoniacal solutions bivalent manganese re- acts in the presence of tartrates and citrates with thio- oxine under the formation of an inner complex salt of dark brown color. The preparation of this salt in pure form is described in this paper. Manganese thiooxinate $Mn(C_{9}H_{5}MS)_{2}$	
Card 1/4	is insoluble in water, with dark brown color, however, well soluble in most of the organic solvents. In carbon disulphide and carbon tetrachloride the compound is very difficultly soluble, and in aliphatic hydrocarbons it is insoluble. Ex-	•

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## CIA-RDP86-00513R001030820005-2

SOV/75-14-2-14/27 Analytical Application of 8-Mercaptoquinoline (Thiooxine) and Its Derivatives. Communication 4. Photometric Determination of Small Amounts of Manganese tracts of manganese thiooxinate are stable for two days in toluene, benzene, chlorobenzene, and xylene. At a longer storing the extinction of the extracts decreases. Solutions of the complex in chloroform or bromoform are less stable. The complex is stable only in alkaline solutions and can be extracted only at pH > 7. Two maxima are observed in the absorption spectrum of manganese thiooxinate:  $\lambda_1 = 250 \text{ mm}$ (molar extinction coefficient  $\mathcal{E}_1 = 34000$ ) and  $\lambda_2 = 413 \text{ m}_{\text{H}}$ (  $\epsilon_{2}$  ~ 7000). The solutions of the complex in carbon tetrachloride are subject to Beer's law in the case of amounts of <4  $\gamma$  Mn in 1 ml CCl<sub>A</sub>. Alkali and alkaline earth metals, Al, Cr, Zr, Th, Ti, La, and other elements forming unstable sulfides in water do not disturb the determination of manganese. Since the reaction of manganese with thiooxine takes place in an alkaline medium, it is not very specific because all elements which form sulfides stable in water are precipitated as sulfides in alkaline solution with thiooxine. Iron, cobalt, Card 2/4nickel, palladium, copper, molybdenum, antimony, arsenic,

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# CIA-RDP86-00513R001030820005-2

SOV/75-14-2-14/27 Analytical Application of 8-Mercaptoquinoline (Thiooxine) and Its Derivatives. Communication 4. Photometric Determination of Small Amounts of Manganese tungsten, and rhenium, may, if they have low valences, be masked by potassium cyanide. The cyanide complex of manganese is so little stable at pH 10 that it is destroyed by thiooxino. The masking of iron as  $\left[Fe(CN)_6\right]^{4-}$  is attained only under certain conditions: iron must be completely bivalent and the pH value of the solution must be 9.5 - 10.5 in the masking. Silver and gold are reduced to metals in alkaline solution and do not inhibit the determination of y-amounts of manganese, nor do iridium and osmium in mg-amounts disturb the determination. Amounts of about 20 mg platinum cause an intense blue coloration of the extract. Lead, zinc, cadmium, thallium, vanadium, and tin disturb the determination. The devised photometric method of determining manganese is described in detail in this paper as well as the production of the solution of the reagent. Using the method described still 1.5 7 manganese in a 5 ml extract may be determined by means of an SF-4 spectrophotometer with satisfactory accuracy. Using a Pulfrich photometer amounts of manganese of 3  $\gamma$  in Card 3/4

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# CIA-RDP86-00513R001030820005-2



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N SET S

SHEVCHUK, I. [Sevcuks, I.] (Riga); LUKSHA, E. [Luksa, E.](Riga)

Simplified methods of synthesis and purification of 8-mercaptoquinoline (thiooxine) and 8, 8'-diquinolydksulfide. Vestis Latv ak no.2:127-134 (EEAI 10:9)

1. Amademiya nauk Latviyskoy SSR, Institut khimii.

(Quinolinethiol) (Quinolysulfides)

APPROVED FOR RELEASE: 07/12/2001

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030820005-2

BANKOVSKIY, Yu.A.; IYEVIN'SH, A.F. [Ievinš, A.]; LUKSHA, E.A., [Lukša, E.]; BOCHKANS, P. Ya.

Analytical application of 8-quinolinethiol (thioquinolinol) and its derivatives. Report 17: 8,8' Diquinolyldisulfide, a new selective reagent for the photometric determination of small amounts of copper. Zhur.anal.khim. 16 no.2:150-157 Mr-Ap '61. (MIRA 14:5)

1. Institute of Chemistry, Academy of Sciences Latvian S. S. R., Riga. (Copper-Analysis) (Quinolinethiol)

APPROVED FOR RELEASE: 07/12/2001

# CIA-RDP86-00513R001030820005-2

BANKOVSKIY, Yu.A.; IYEVIN'ISH, A.F. [Levins, A.]; BUKA, M.R.; LUKSHA, E.A. [Luksa, E.A.] Inner-complex compounds of manganese with the coordination number of 8. Zhur.neorg.khim. 8 no.1:110-118 Ja '63. (MIRA 16'5) 1. Institut khimii AN Latviyekoy SSR. (Manganese compounds) (Coordination compounds)

APPROVED FOR RELEASE: 07/12/2001

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<u></u>				
~	AUTHOR:	Luksha, L.K., Engineer.	661	aline in an an air an
	TITLE:	Method of increasing the activity of solid carburising agents. (Sposob povysheniya aktivno tverdykh karbyurizatorov).		
	PERIODICAL:	"Metallovedenie i Obrabotka Metallov" (Metallur and Metal Treatment), 1957, No.6, pp.51-54 (U.S	5.5.K.)	
	ABSTRACT :	The aim of the study was to attain an increase activity and a reduction in the cost of a carbu agent for case hardening. The authors investig carburisers based on charcoal with additions of mixtures of sodium acetate with NaOH or BaO of following compositions: 80% charcoal, 10% sodiu acetate, 10% NaOH; 70% charcoal, 10% sodium ace 20% BaO; 55-60% charcoal, 30% semi-coke and 10 15% sodium acetate with 2 to 3% mazout as a bin The analyses of the gases forming during the	in the rising gated the m state, to nder.	
54	•	carburisation process at 800 C are given in Tal p.51. The distribution of the carbon in the diffusion layer as a function of the temperatur process duration are given in Figs. 1-2 (850, 925 C; 3, 5, 8 hours). Fig.3 gives the carbon distribution in the diffusion layer as a funct the quantity of sodium acetate in the carburis whilst Fig.4 gives the distribution of the har with the depth of the carburised layer (up to	re and 900, ion of er, dness	
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Method of increasing the activity of solid 661 carburising agents. (Cont.)

Use of sodium acetate instead of carbonates increases appreciably the activity of solid carburisers and permits to reduce the carburising time to about half, involving considerable savings in time and costs. Thereby, the structure and properties of the diffusion layer do not differ from those obtained by means of current type carburising agents. By changing the quantity of the sodium acetate in the carburiser it is possible to obtain a predetermined carbon concentration in the carburised layer. High carbon content steels (Y7-Y8) containing up to 0.8 to 0.9% C were successfully carburised by means of the recommended carburising agent, obtaining thereby a diffusion layer of 2.5 mm. The author considers it advisable to carry out further investigations with carburisers containing admixtures of carbonates of other metals, for instance of barium. 4 figures, 2 tables, 1 Slavic reference.

ASSOCIATION: Sibelektrostal Works. (Zavod "Sibelektrostal'") AVAILABLE:

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# CIA-RDP86-00513R001030820005-2

1 18022-63 BDS s/0250/63/007/005/0301/0304 ACCESSION NR: AP3003037 AUTHOR: Luksha, L. K. TITLE: Strength theory. Presented by the Academician N. S. Akulov of the Academy of Sciences Byelorussian SSR SOURCE: AN BSSR. Doklady, v. 7, no. 5, 1963, 301-304 TOPIC TAGS: strength, fragile material, plasticity ABSTRACT: The most knowledge of the existing theories of strength has been obtained from the theory of Guber-Mizes-Genki and the theory of P. P. Balandin. The application of the first theory is limited to plastic metals with  $\% = R_c / R_p = 1$ (Rc and Rp are the limits of strength of materials under axial pressure and tension respectively), while the area of applicability of the second theory extends to fragile material with X: 3. However, for many materials there does not yet exist a satisfactory theory of strength. The aim of this paper is to justify the description of strength properties of materials with X = 10, given by the author (Materialy\* konferentsii molody\*kh ucheny\*kh AN BSSR, Izd. AN BSSR, Minsk, 1962) and to indicate a possible method for obtaining descriptions of strength properties of other isotropic fragile substances. The author concludes that the theory Card 1/2 

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I 18022-63 ACCESSION NR: AP3003037		2	
and other substances all author expresses long-to remarks on the generalia	can be applied to materials with so, like rocks, plastics, glass, e erm thanks to academician <u>N. S. Ak</u> sed theory of strength and his dis mulas 1 figure	tc. "In conclusion the ulov for his valuable	
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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030820005-2"

# "APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030820005-2 AKHVERDOV, I.N.; LUKSHA, L.K. On the theory of the strength of brittle bodies. Dokl. AN BSSR 9 no.2:82-85 F '65. I. Institut stroitel'stva i arkhitektury Gosstroya BSSR.

APPROVED FOR RELEASE: 07/12/2001

YAKOVER, M.; LUKSHENAS, Yu. Students' expeditions for the study of local geography. Geog. v (MIRA 16:5) shkole 26 no.1:54-56 Ja-F '63. (MIRA 16: (School excursions) (Geography-Study and teaching)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001030820005-2"

# CIA-RDP86-00513R001030820005-2

LUKSHIN, A. A.

USSR/ Physics Alloys, Magnetic Magnetostriction

**Fe**b 1948

"Effect of Thermonagnetic Processing on Magnetization and Magnetostriction Curves of Alsifer Alloys" Ya. S. Shur, A. A. Lukshin, Ural State U imeni M. Gorkiy, 3 pp

"Dok Akad Nauk SSSE, Nova Ser" Vol LIX, No 4

Discusses path of magnetization and magnetostriction curves in relation to size of field set up during thermomagnetic processing. Submitted by Academician S. I. Vavilov, 8 Dec 1947.

PA 43/43T96

APPROVED FOR RELEASE: 07/12/2001

# CIA-RDP86-00513R001030820005-2



APPROVED FOR RELEASE: 07/12/2001
LUKSHIN, A.A.; SHUR, Ya.S.

Dependence of the effect of thermomagnetic treatment on the initial properties of the ferromagnetic material. Isvest. Akad. Wauk S.S.S.R., Ser. Fiz. 16, 647-52 '52. (MLRA 6:3) (CA 47 no.20:10295 '53)

Continuation of Investigationsby authors (Dokl. AN SSSR, 78, 243, 1951) which show that processes occurring during thermomagnetic treatment are of more complicated nature than anticipated in works by R.M.Bosorth and J.F. Dillinger (Physics 6, 235, 1935). Suggests that materials should be worked to max of soft magnetic state.

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INTERNET AND A DESCRIPTION OF A A DESCRIPTION OF A DESCRI LUKSHIN, A.A S. 8. 8. 4. 1 FIZ. MET. I METALL. VOL 1, NO. 1, 1955 - M(+ Thermomagnetic treatment of soft magnetic materials in fields of various intensitien by A. A. Lukshin and Ya. S. Shur (p. 28-35) - Anisotropy of magnetic properties re-sulting from cooling in magnetic fields of various strength is studied on samples of silicon iron and Perualloy 66. Empirical relations are derived. Magnetic textures produced by thermomagnetic treatment are interpreted on the basis of magnetisation and magnetostriction curves. Inst-Physics of metals, Und offil, AS USSR

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81801 8/137/60/000/04/04/015 18.1141 Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 4, p. 153 # 7899 Lukshin, A.A. AUTHOR: A MARTIN AND Improving Magnetically Soft Materials by Thermomagnetic Treatment TITLE: Materialy nauchn. konferentsiy, Izhevskiy s.-kh. in-t, 1959, No. 4, PERIODICAL: pp. 325 - 332 The author studied the thermomagnetic treatment consisting in the TEXT: cooling of a ferromagnetic specimen from the Curie point to room temperature in the presence of an external magnetic field. This field caused a pronounced heterogeneity of the magnetic phase concentration along different orientations in the specimen. Specimens made of Al-Si-Fe (5.5% Al, 9.5% Si, the rest Fe); Permalloy (66% Ni, the rest Fe); transformer steel (4% Si, the rest Fe); dynamo steel (1% Si, the rest Fe) and Permendur (49% Co, 2% V, the rest Fe) were subjected to ordinary annealing and annealing in magnetic fields (weak and strong)on a special installation. It was established by investigations that thermomagnetic treatment may be successfully used on materials which are considerably exposed to the effect of elastic stresses. It was also revealed that Card 1/2

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s/137/60/000/04/04/015

Improving Magnetically Soft Materials by Thermomagnetic Treatment

the effect of thermal magnetic treatment depended to a certain degree on the initial magnetic properties and the chemical purity of the material. Materials having higher initial magnetic properties and purity, are easier treatable by the thermomagnetic process. This regularity was very well confirmed when using Permalloy.

A. B.

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Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 10, p. 218, # 24210

AUTHOR: Lukshin, A A

TITLE: Thermomagnetic Treatment of Permendur Alloy in Fields of Different Intensity

PERIODICAL: Tr. Izhevskogo s.-kh. in-ta, 1959, No. 5, pp. 43 - 52

TEXT: A study was made of the effect of the magnitude of a magnetic field during the process of thermomagnetic treatment of permendur (49% Co, 2% V, the rest - Fe). The specimens were preliminary annealed for 5 hours in H<sub>2</sub> at 1,200°C and then for one hour in a vacuum at 900°C. Annealing of specimens was performed at 800°C for 0.5 hours with subsequent cooling at a rate of 100 degrees/hour in a magnetic field of up to 200-oersted and without a field. The magnetic texture was checked by magnetization and magnetostriction curves, taken from the same specimens prior and after thermomagnetic treatment. It is shown that the thermo-

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### CIA-RDP86-00513R001030820005-2

I. LUKSHIN, V.V.	1.	LUKSHIN,	V.V.
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2. USSR (600)

4. Horses - Feeding and Feeding Stuffs

7. Change in the secretory function of the stomach of the horse under the influence of qualitatively different feed rations, Konevodstvo 23 no. 4, 1953.

9. <u>Monthly List of Russian Accessions</u>, Library of Congress, <u>APRIL</u> 1953, Uncl.

APPROVED FOR RELEASE: 07/12/2001



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dilation causing heigher tonus of blood vessles in frogs)

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APPROVED FOR RELEASE: 07/12/2001





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1. Iz Neurolosko-psihijatrijskog odjela Opce bolnice u Splitu (Sef: Dr. Viktor Ostrovidov). (NEUROFIBROMATOSIS case reports)

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CONTRACTOR STATES

SOURCE: East European Accessions List, (EEAL) Library of Congress, Vol. 5, No. 8, August, 1956.

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ANIKINA, M.; VARDINGA, G.; ZHURAVLEVA, M.; KOTLYAREVSKIY, D.; LUKSTIN'SH, Xu.; MESTVIRISHVILI, A.; NYAGU, D.; OKONOV, E.; TAKHTAMYSHEV,G.; U TSZUN-FAN' [Wu TSung-fan]; CHKHAIDZE, L.

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K<sub>2</sub>-meson decay. IAd. fiz. 2 no.3:471-484 S '65. (MIRA 18:9)

1. Ob"yedinennyy institut yadornykh issledovaniy i Institut fiziki AN GruzSSR.

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LOLEZAL, J.; LIKSYTE, E.; RYBACEK, V.; ZYKA, J.

Reductometric titration with iron (II) sulphate in triethanolamine medium. Chem Cz Chem 29 no.11:2597-2606 N '64.

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 Institut fur analytische Chemie, Karlsuniversitat, Prague.
Present address; Chemische Fakultat, Universitat, Vilnius, Lithuania (for Luksyte).

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LUKSZA, Franciszek, mgr inz.

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ZHAROV, I.S., zasl. deytatel' nauki, prof., otv. red.; KOLESNIKOV, S.A., prof., red.; NAPALKOV, P.N., zasl. deyatel' nauki, prof., red.; ROVNOV, A.S., prof., red.; DAMIR, Ye.A., kand.	
med.nauk, red.; DARBINYAN, T.M., kand. med.nauk, red.; SERGEYEV, V.M., kand. med. nauk, red.; UVAROV, B.S., kand. med. nauk, red.; LUKUMSKIY, G.I., kand. med.nauk, red.; BUKOVSKAYA, N.A., tekhn. red.	
[Transactions of the First Symposium on Anesthesiology] Trudy Simpoziuma po anesteziologii. 1st, Moscow, 1960. (MIRA 16:9)	
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<u>L 13551-66</u> EWT(m)/T/EWA(m)-2	2 · · · · · · · · · · · · · · · · · · ·
ACC NR: AP6001154 SOURCE CODE: UR/0367/65/002/003/0471/0484	
AUTHOR: Anikina, M.; Vardenga, G.; Zhuravleva, M.; Kotlyarevskiy, D.; Lukstin'sh, Yu.: Mestvirishvili, A.; Nyagu, D.; Okonov, E.; Wu, Tsung-fang.; Chkhaidze, L.; Takhtamyshev, G.	
ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy); Physics Institute, Academy of Sciences, Gruzinskaya SSR (Institut fiziki Akademii nauk	
Gruzinskoy SSR) TITLE: Investigation of K <sup>O</sup> <sub>2</sub> -meson decays 1944,55	
SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 471-484	
TOPIC TAGS: K meson, meson interaction, lepton, radioactive decay, selection rule, pion	
ABSTRACT: The authors presented at the 12th International Conference on High Energy	
Physics, Dubna, 1964, preliminary results of analyses of 683 $K_2^0$ -mesons detected in a	
Wilson chamber. In the present article, the authors present a more complete analysis using	
a larger statistical material (1082 K $_2^{O}$ -mesons). The following probabilities were obtained	
for leptonic decays of the $K_2^O$ -meson and for the decay $K_2^O \rightarrow \pi^+ + \pi^- + \pi^\circ$	
(with respect to all K $_2^{O}$ -decays into charged particles): $\begin{bmatrix} 2 \\ 2 \end{bmatrix}$ (+ 0) / $\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	
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(charged) = 0.194 ± 0.024 and $\int_{2}^{2} (Ke_{3}) + \frac{1}{2} (Ku_{3}) / \int_{2}^{2} (charged) = 0.806 \pm 0.090$ . The data on		
action and the predictions based on the $ \Delta T  = 1/2$ solution with the V-type inter-		
$\mathcal{N}^{\circ}$ -mesons in the K $\stackrel{\circ}{2} \rightarrow \mathcal{P}^{+} + \mathcal{N}^{+} + \mathcal{N}^{\circ}$ decay differs significantly from the phase curve $\phi(T)$ . The value $\mathcal{K} = -8.2 \stackrel{-1.3}{-1.3}$ upon obtained for the		
$\phi(T_0)$ . The value $x = -8.2 \stackrel{-1.3}{_{-0.9}}$ was obtained for the coefficient $c$ in the linear approximation $dW(T_0)/d\phi(T_0) = 1 + c T_0/M_{KO}$ , which is also in good agreement with the $ \Delta I  = 1/2$		
selection rule. Assuming the existence of a 6-dipion resonance, the following values are ob- tained for its mass and width: $M_{\delta} = (350 \pm 10)$ MeV and $\int_{C} = (75 \pm 15)$ MeV. In conclusion, the authors consider it their pleasant duty to thank B. M. Pontecorvo [Pontekorvo] for fruit- ful discussions and constant interest in the work; Y. L. Veksler, I. V. Chuyilo and the entire staff of the proton-synchrotron, who assured the execution of the experiment; and E. L. Andronikashvili, V. P. Dzhelepov, and Z. Sh. Mandzhavidse for assistance in the work. Authors also extend their thanks to the group of laboratory technicians and mechanics con- sisting of N. I. Grafov, L. Goncharov, P. Zhabin, L. Lyubimov, D. Sverdlin, V. Smirnov, V. Stepanov, L. Filatov, and L. Filippov, and the students O. Dumbrayts and V. Novikov for performing the calculations. Orig. art. has: 10 figures, 4 tables, and 1 formula.		
SUB CODE: 18 <sup>29</sup> / SUBM DATE: 30Mar65 / ORIG REF: 007 / OTH REF: 021		
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### CIA-RDP86-00513R001030820005-2



#### CIA-RDP86-00513R001030820005-2

Samarin, A.M., Novik, L.M., Tsukanov, G.E., Kuznetsov, H.F. AUTHORS: and Lukutin, A.I. Vacuum Treatment of Bessemer Steel (Vakuumnaya obrabotka TITLE: bessemerovskoy stali) Stal', 1959, Nr 3, pp 231-238 (USSR) PERIODICAL: The application of vacuum treatment of Bessemer steel in a 22-ton ladle before teeming in order to improve the ABSTRACT: quality of steel was introduced at the Dzerzhinskiy Works The design of the installation is outlined and the lay-out shown in Figure 1. Main point - the evacuation is effected by two parallel pairs of pumps, RVN60 and RVN-30, connected in series. The dependence of the output of pumps operating separately and connected in series on pressure is shown in Figure 2 and the change of pressure in the vacuo chamber with time in Figure 3. At the 8th minute of treatment the pressure in the chamber falls to The gases pumped out of the chamber are cooled in 2 mm Hg. a cooler and purified from dust in a cyclone and a filter. The investigation of the vacuo treatment on the quality of steel was carried out on 38 heats of rail steel and 17 heats of rimming steel. The duration of the treatment of Card1/5  $\bigcirc$ 

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#### CIA-RDP86-00513R001030820005-2

Vacuum Treatment of Bessemer Steel

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rail steel varied between 12-15 minutes during which the metal was boiling violently - its level was rising up to 500 mm. In all cases, the metal was deoxidised with ferromanganese and ferrosilicon during tapping into the ladle; aluminium (150 - 500 g/t) was introduced after the treatment when the steel was already well deoxidised. A number of heats were carried out in which vanadium (0.1 -0.15%) or boron (0.005%) were introduced under vacuum through a special charging arrangement 3-4 minutes before the end of the treatment. The chemical composition of the metal remains practically unchanged during the vacuo treatment; the content of iron oxides in slag decreases by 20-30% and of silicon by 5-6% due to deoxidation with carbon. Changes in the content of oxygen in rail steel during the treatment and teeming are shown in figure 4 and of hydrogen in Figure 5. Changes in the content of hydrogen in the treated steel along the depth of the ladle are shown in Figure 6; sulphur of a cross-section of rail from vacuo-treated and ordinary steel - Figure 7; the dependence of the tensile strength, relative elongation and relative necking of rails from ordinary and vacuotreated steel with additions of aluminium and vanadium

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### CIA-RDP86-00513R001030820005-2

Vacuum Treatment of Bessemer Steel

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before and after normalisation on the sum of |C + 0.25 Mn|- Figures 8, 9 and 10, respectively; the dependence of the impact strength of rails from vacuo-treated and ordinary steel on  $\sum [C + 0.25 \text{ Mn}]$  at 20 C - Figure 11, at - 40 C - Figure 12, after deformation ageing -Figure 13. The mean duration of the vacuo treatment of rimming steel was 14.5 minutes at a minimum pressure of 16 mm Hg. The process is accompanied by a violent boiling (the level of the metal rises by 600 - 700 nm). As the pumping capacity was insufficient to decrease sharply the content of nitrogen, it was combined into stable nitrides by additions to some heats of aluminium  $(300 - 1 \ 000 \ g/t)$ or vanadium (0.1%). The additions were made through the charging installation 4-5 minutes before the end of the treatment. The content of carbon decreases by 0.03 - 0.06% during the treatment. Changes in the content of oxygen and hydrogen during the treatment - Figures 14 and 15, respectively; indices of impact strength of the ordinary and treated metal are shown in Figure 16 and the table. On the basis of the results obtained, the following conclusions are drawn: a) vacuo treatment of liquid metal

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CIA-RDP86-00513R001030820005-2

Vacuum Treatment of Bessemer Steel 20/139-39-3-14/32

in the ladle increases the quality of Bessemer steel to a level of the open-hearing steel; b) with the duration of the treatment of 14-15 minutes and a pressure in the chamber of 5-10 mm Hg for killed metal and of 15-20 mm Hg for rimming metal a deep degassing of the whole volume of the metal is obtained (the content of oxygen decreases 4.4 - 6 times, on average to 0.0013% in rail steel and to 0.0041 in rimming steel; the content of hydrogen decreases by a factor of more than 2, approximately to 2.4 cm<sup>2</sup>/100 g in rail and to 2.4  $cm^3/100$  g in rimming steel; of nitrogen in rimming steel decreases by 38.5%). the content c) This decrease in the content of hydrogen in rail steel makes it flake insensitive without an application of slow cooling or isothermal treatment of the rolled product. d) Vacuo treatment makes the deoxidation of aluminium unnecessary which, if needed, can be introduced after the treatment into the metal already well deoxidised by carbon. Alloying additions can be also introduced into already deoxidised metal at the end of the treatment through special charging installation in the top of the vacuo chamber. e) Bessemer rails from vacuo-treated metal possess higher Card4/5 plastic properties and impact strength at positive and

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CIA-RDP86-00513R001030820005-2

Vacuum Treatment of Bessemer Steel

SOV/133-59-3-14/32

negative temperatures as well as after deformation ageing than rails made by the usual technology. On increasing carbon content to 0.8% and alloying with a small amount of vanadium (0.1 - 0.2%) or boron (0.003 - 0.005) or titanium (1-2 kg/t) and normalisation non-ageing rails can be obtained with higher physico-mechanical properties than those of rails from open-hearth steel. f) By vacuo treatment a good structural Bessemer steel can be obtained in which the zone of thermal influence of welded seam is not subjected to thermal ageing (decreased sensitivity of vacuo-treated metal to mechanical ageing is completely removed during normalisation of rolled products). There are 16 figures, 1 table and 2 Soviet references.

# ASSOCIATIONS:

Institut metallurgii AN SSSR (Institute of Metallurgy of the Ac.Sc.USSR) and Zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works)

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		Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii (Physicochemical Bases of Steel Making; Transactions of the Fifth Conference on the Physicochemical Bases of Steelmaking) Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted. 3,700 copies printed.	and the second			•
•		Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A. A. Baykova.		*		
		Responsible Ed. : A. M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg. Tech. Ed. : V. V. Mikhaylova.	7 . +			۲
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	PART IV. THE APPLICATION OF THE GAS CONTENT IN S	VACUUM AND TEEL		:		
Shumilov Specific	v, M.A., P.V. Gel <sup>1</sup> d, and F.A. Sidorenko. Features of the Process of Ferrosilicon Di	Some sintegration	445	•		
Gel'd, P Permeat	P. V., and R. A. Ryabov. Effect of Carbon oblity of Steel to Hydrogen	on the	457		,	
Novik, I	L. M., A. M. Samarin, M. P. Kuznetsov, A. P. Ul'yanov. Improving the Quality of Raile ner-Converter Steel by Applying Vacuum Tr	I. Lukutin, Made of eatment	461		-	
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LUKUTIN, V. A. Min Higher Education USSR. Tomsk Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov

LUKUTIN, V. A.- "Some problems of the dynamic stability of electrical systems with powerful transformer equipment." Min Higher Education USSR. Tomsk Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov. Tomsk, 1956. (Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis' No. 13, 1956.

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LUKUTIN, V.A., kand. tekhn. nauk

Static characteristics of traction loads. Izv. vys. ucheb. zav.; energ. 6 no.9:108-111 S. '63. (MIRA 16:12)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M. Kirova. Predstavlena kafedroy teoreticheskikh osnov elektrotekhniki.

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ACC NR: AT7003986	SOURCE CODE: UR/0000/66/000/000/0005/0010	
AUTHOR: Vorob'yev, A. A.; Kalga	nov, A. F.; Lukutin, V. A.; Patsevich, V. V.	0
ORG: Tomsk Polytechnic Institut	e (Tomskiy politekhnicheskiy institut)	
TITLE: Theory and technology of	electrostatic machines	
Elektronnyye uskoriteli (Electr Atomizdat, 1966, 5-10	tsiya po elektronnym uskoritelyam. 5th, Tomsk, 1964. on accelerators); trudy konferentsii. Moscow,	
ABSTRACT: The phenomena transpi to the phenomena in the electro D. Gignoux, "Electrostatic gene SNRC, Grenoble, 1960). Formula conveyer generators show that t is inversely proportional to th independent of the gap. Small g capacitance, and the available latter statement was proved the generator, at the NII of Nuclea static generator with parallel- promising. Orig. art. has: 8 fo	pator, particle acceleration, electronic test ring in the electrostatic generator and their analogy magnetic generator are briefly reviewed (e.g., brators for space application", 102-ème Colloque du is for maximum power of disk-type and cascaded- he maximum specific power (per unit volume or weight) he stator-rotor gap; the load voltage and current are gaps are preferable because they mean smaller spurious power becomes closer to its theoretical value. The boretically and experimentally, on a single-disk ur Physics, Tomsk Polytechnic Institute. An electro- connected poles and vacuum insulation seems to be most proventas. TE: 26Mar66 / ORIG REF: 003 / OTH REF: 003	
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LUKUTIN, V.I.; DZHEMELINSKIY, A.I.

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Discussion of the article "Instructions should be revised." Avtom., telem. i sviaz 7 no.10:41-43 0 '63.

(MIRA 16:11)

 Starshiy elektromekhanik l-y Rizhskoy distantsii signalizatsii i svyazi Pribaltiyskoy dorogi (for Lukutin).
 Nachal'nik Batayskov distantsii signalizatsii i svyazi Severo-Kavkazskoy dorogi (for Dzhemelinskiy).

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LUK'YANCHENKO, A.A.; BADALOV, M.Ye.; KOIMCHIDI, Ye.K. Influence of southwestarn winds on the appearance and spread of tularenia in the focus of the Don Delta. Zhur. mikrobiol. epid. i mmun. 32 noi5:55-61,My '61. (MIRA 14:6) 1. Iz Rostovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii. (DON RIVER-DELTA-TULARENIA) (WINDS)

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Country Category	: USSR : Cultivated Plants. Potatoes. Vegetables. Melons. M	
Abs Jour	: R <sup>2</sup> hBiol., No 6, 1959, No 24881	•
Author Inst Title Orig Pub	<ul> <li>Zhurbin, D. I.; Luk'yanchenko, A. M.</li> <li>Development of Vegetable Cultivation in the Kharkov' Region.</li> <li>Byul, Sil's'kogospod. inform. Kharkivs'ke obl. vid.</li> </ul>	
Abstract	t-va dliya poshar polit. i nauk. znan', 1958, vyp. 8, 30-33 : No abstract.	
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Ĩ	$\frac{L \ Ol4278-67 \ EWT(m)/T \ DJ}{ACC \ NR: \ AP6013266} (A) \qquad SOURCE \ CODE: \ UR/O413/66/000/008/0057/0057$	
	AUTHORS: Luk'yanchenko, B. S.; Sokolov, Yu. A.; Gagua, V. D. 38 ORG: none 2	
	TITLE: Friction bearing. Class 27, No. 180728 [announced by Central Scientific Research Diesel Institute (Tsentral'nyy nauchno-issledovatel'skiy dizel'nyy institut)]	
	SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 57	
	TOPIC TAGS: antifriction bearing, lubrication ABSTRACT: This Author Certificate presents a friction bearing for high-speed machinery, such as turbocompressors for internal combustion engines with a gas turbine supercharger. The bearing contains a floating bushing placed in the bed turbine supercharger. The bearing contains a floating bushing placed in the bed of the bearing, and also internal and external (in respect to the bushing) wedge- of the bearing, and also internal and external (in respect to the bushing) wedge- shaped oil-carrying recesses. To simplify its production, the external wedge- shaped oil-carrying recesses.	
	shaped oil-carrying recesses. To simplify its production, the bushing (see Fig. 1). shaped oil recesses are formed on the external surface of the bushing (see Fig. 1).	
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LUE TANCHLERC, E. Ta.

LUK YANCHENKO, B. Ya. - "The clinical-roombgenological diagnosis of the more important tumors and cysts of the mediastinum." Moscow, 1955. State wei Mos Inst for Roomtgenology and Radiology ironi V. N. Molotov. (Dispertations for degree of Candidate of Medical Sciences.)

6864

SC: Knishnaya letopis', Ho hu. 26 November 1953. Honcow.

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### CIA-RDP86-00513R001030820005-2

LUK YANCHENKO, B.Ya.; ZAYRAT YANTS, V.B.

Lymphangioendothelioma of the mediastimum. Vest.rent. 1 rad. no.4:86-88 J1-Ag '55. (MLRA 8:12)

1. Iz rentgenodiagnosticheskogo otdela (zav.-prof.I.A. Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M.Molotova (dir. I.G.Lagunova) (LYMPHAGIOENDOTHELIOMA mediastimum, diag.,x-ray)

(MEDIASTINUM, neoplasms, lymphagioendothelioma, diag.,x-ray)

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### CIA-RDP86-00513R001030820005-2

Luck' YANCHENKO, B.Ya., kand.med.nauk Multiple intrathoracic neurogenic tumors [with summary in English]. Vest.rent. i rad. 32 no.6:#3-#5 H-D '5?. (MTRA 11:3) 1. Is 3-y TSentral'noy polikliniki Ministerstva zdravookhraneniya SSSR (glavnyy vrach PN.Zakharov) (THORAX, neplasms neuroma, multiple (Rus) (BENROMA intrathoracic, multiple (Rus)

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