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CHAYLAKHYAN, Mikhail Khristoforovich, doktor biol. nauk; LEONOVA, T.S., red.; KUDRYAVTSEVA, E.V., tekhn. red.

[Story about plant gibberellins] Povest' o gibberellinakh rastenii. Moskva, Izd-vo "Znanie," 1963. 46 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.17) (MIRA 16:11)

(Gibberellin)

MELYUKOV, Aleksey Nikolayevich, kand. sel'khoz. nauk; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Biophysics and animal husbandry] Biofizika i zhivotnovodstvo. Moskva, Izd-vo "Znanie," 1963. 28 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.7) (MIRA 16:4)

(Stock and stockbreeding)
(Radiation--Physiological effect)

KREPIS, Igor' Borisovich, kand. tekhn. nauk; LEONOVA, T.S., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Fuel and fertilizer plants] Fabriki topliva i udobrenii. Moskva, Izd-vo "Znanie," 1963. 29 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.18) (MIRA 16:12)

(Farm manure) (Methane) (Gas producers)

SILKIN, Boris Isaakovich; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Continent of riddles] Kontinent zagadok. Moskva, Izd-vo "Znanie," 1963. 29 p. (Novoe v zhizni, nauke, tekhnike. XII Seriia: Geologiia i geografiia, no.14) (MIRA 16:8)
(Antarctic regions)

VENIAMINOV, V.; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Secret of crop yields] Sekret urozhaia. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.16) (MIRA 16:8)
(Field crops)

SENKEVICH, Aleksandr Aleksandrovich, kand. sel'khoz. nauk;
LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Green shelterbelts; shelterbelt afforestation in our country and abroad] Zelenye zaslony; zashchitnoe lesorazvedenie u nas i za rubezhom. Moskva, Izd-vo "Znanie," 1963. 38 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.20) (MIRA 16:12)
(Windbreaks, shelterbelts, etc.)

DUNIN, Mikhail Semenovich, doktor sel'khoz.nauk; LEONOVA, T.S., red.; KANTOROVICH, A.V., spets. red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Self-protection of plants against diseases] Samozashchita rastenii ot boleznei. Moskva, Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.15) (MIRA 16:7)

(Plants--Disease and pest resistance)

LIKHOBABA, Ivan Grigor'yevich; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Proper course; economics in the center of attention]Vernyi kurs; ekonomika - v tsentra vnimaniia. Moskva, Izd-vo "Znanie," 1963. 47 p. (MIRA 16:2)

1. Direktor sovkhoza "Samarskiy" TSelinogradskoy oblasti(for Likhobaba).
(Kazakhstan--Agriculture--Economic aspects)

RAKOVA, Yekaterina Ivanovna, dots.; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Russian grain]Khleb Rossii. Moskva, Izd-vo "Znanie," 1963. 48 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.8) (MIRA 16:4)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Rakova).

(Grain)

ZHUREITSKIY, Zenon Iosifovich, doktor biol. nauk; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn.red.

[Tagged atoms and plant growing] Mechenye atomy i rastenievodstvo. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.23) (MIRA 17:1)

(Plants--Nutrition) (Radioactive tracers)

SPIRIDONOV, Semen Spiridonovich; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Contribution of the industries to rural areas] Industriia - selu. Moskva, Izd-vo "Znanie," 1963. 44 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.22) (MIRA 17:1)

(Farm mechanization)

KRUGLYAKOV, Moisey L'vovich, kand. sel'khoz. nauk; KRUGLYAKOV, Al'fred Moiseyevich, inzh.; LEONOVA, T.S., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Soil fertility technique; fertilizers and new machines for their placement in the soil] Tekhnika plodorodia; udobreniia i novye mashiny dlia vneseniia ikh v pochvu. Moskva, Izd-vo "Znanie," 1964. 62 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khozlaistvo, no.4) (MIRA 17:3)

KROTOVA, Ol'ga Alekseyevna, kand. sel'khoz. nauk; LEONOVA, T.S., red.; RAKITIN, I.T., tekhn. red.

[Seed pellets] Semena-drazhe. Moskva, Izd-vo "Znanie," 1964. 30 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.3) (MIRA 17:3)

GINZBURG, Aminadav Gesselevich; LEONOVA, T.S., red.

[Veterinary medicine in the service of man] Veterinariia sluzhit cheloveku. Moskva, Izd-vl "Znanie," 1964. 53 p. (Novoe v zhizni, nauke, tekhnike. V Seriia; Sel'skoe khoziaistvo, no.7) (MIRA 17:5)

DEMCHENKO, Petr Vasil'yevich, kand. sel'khoz. nauk; LECHOVA, T.S., red.

[Chemistry and animal husbandry] Khimiia i zhivotnovodstvo. Moskva, Izd-vo "Znanie," 1964. 31 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.16) (MIRA 17:8)

ZELENUKIN, Viktor Stepanovich; LEONOVA, T.S., red.

[The attack continues; control of animal helminths] Nastuplenie prodolzhaetsia; bor'ba s gel'mintami zhivotnykh. Moskva, Izd-vo "Znanie," 1964. 29 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.15) (MIRA 17:8)

MIKHEYEV, Mikhail Ivanovich, doktor biol. nauk; LEONOVA, T.S., red.

[Tissue extracts in animal husbandry, dry tissue extracts in tablets] Tkanevye preparaty v zhivotnovodstve; o sukhikh tkanevykh preparatakh v tabletkakh. Moskva, Izd-vo "Znanie," 1964. 30 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.8) (MIRA 17:7)

IGNATOVSKIY, Pavel Artem'yevich, kand. ekon. nauk; LEONOVA, I.S., red.

[Additional agricultural investments] Dobavochnye vlozhenii v zemledelie. Moskva, Izd-vo "Znanie," 1964. 38 p. (Novoe v zhizni, nauke, tekhnike. V Serii: Sel'skoe khozyaistvo, no.14) (MIRA 17:7)

SMOL'YANINOV, Ivan Ivanovich; [illegible], red.; [illegible], I.G., doktor sel'khoz. nauk, nauchn. red.

[Agricultural chemistry on guard for fertility] Agrokhimiia na strazhe plodorodiia. Moskva, Izd-vo "Znanie," 1964. 39 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.18) (MIRA 17:10)

MAKAROV, Nikolay Fedorovich, kand. ekon. nauk; [illegible], Ivan Petrovich; [illegible], I. ., red.

[Livestock farm on the [illegible] kormakh. Moskva, Izd-vo "Znanie," [illegible]. 31 p. (Novoe v zhizni, nauke, tekhnike. V Serii: Sel'skoe khozyaistvo, no.17) (MIRA 17:10)

ZHURAVLEVA, T.A.; ODABASHYAN, G.V.; LEONOVA, T.S.; PETROV, A.D.

Reaction of dichlorosilane with organic chlorides at high temperatures. Dokl. AN SSSR 154 no.1:144-147 Ja'64. (MIRA 17:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva. 2. Chlen-korrespondent AN SSSR (for Petrov).

OSOKIN, Sergey Dmitriyevich; ZENKEVICH, L.A., nauchn. red.; LEONOVA, T.S., red.; ATRASHCHENKO, L., tekhn. red.

[In the depths of the ocean] V puchinakh okeana. Pod nauchn. red. L.A.Zenkevicha. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. XII Seriia: Geologiia i geografiia, no.17) (MIRA 16:10)

1. Deystvitel'nyy chlen Geograficheskogo obshchestva SSSR (for Osokin). 2. Chlen-korrespondent AN SSSR (for Zenkevich). (Oceanographic research)

MILOSLAVSKIY, Ya.M.; MILESLAVSKAYA, L.I.; LEONOVA, V.; KAZ'MIN, V.

Effect of certain neurotropic substances on the adrenal cortex. Report No. 1. Probl. endok. i gorm. 6 no. 3:12-14 My-Je '60. (MIRA 14:1)

(ADRENAL CORTEX) (PHARMACOLOGY)

LEONOVA, V.A.

Metamorphism of certain Paleozoic rocks on the western slope of the Central Urals. Uch.zap.Len.un no.188:59-72 '55. (MLRA 9:8)
(Ural Mountains--Petrology)
(Ural Mountains--Geology, Stratigraphic)

LEONOVA, V.A.; GALIBIN, V.A.

Relation of zirconium to hafnium in the cyrtolites of the pegmatite veins of the Chupa region and in the zircon gneisses of the enclosing pegmatites. Min. i geokhim. no.1:163-[illegible] '64. (MIRA 18:9)

LEONOVA, V.A.

Mineralogy and crystallochemistry of uraninites of northern Karelia.
Zap. Vses. min. ob-va 88 no.1:21-38 '59. (MIRA 12:3)
(Chupa region--Uraninite)

3 (8)

AUTHOR: Leonova, V. A. SOV/20-126-6-54/6

TITLE: On the Effect of Admixtures Upon the Parameter of the Uraninite Cell (O vliyanii primesey na parametr yacheyki uraninita)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6 pp 1342 - 1345 (USSR)

ABSTRACT: The instability of the parameter mentioned in the title was pointed to several times in the publications (Ref 3). In this paper the dependence of the said parameter on the content of radiogenic lead and isomorphic admixtures of Th and TR is discussed. The paper is based upon investigation results of a series of uraninite samples from rare earth pegmatites from the USSR. Table 1 shows their chemical composition (M. N. Bakhvalova and Ye. V. Vlasova carried out the analyses Nr 3-5 and 7-14 under the supervision of I. A. Tserkovnitskaya at kafedra analiticheskiy khimii LGU - Chair of Analytical Chemistry of the university mentioned under Association). Accordingly the investigated uraninites are considerably oxidized and contain a great amount of radiogenic lead (Refs 1,2,5,6), rare earths, and thorium. The parameters derived from the Debye-grams by means of calculation and indication are shown in table 2. They

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On the Effect of Admixtures Upon the Parameter of the Uraninite Cell SOV/20-126-6-54/67

vary between 5.465 and 5.484 Å. The deviation of the parameters of the natural uraninites of 5.47 Å (edge of the elementary cube of pure UO_2) depends on 2 fundamental factors: a) on the degree of oxidation of the material and b) on the content of element admixtures (Th, TR, Pb). The influence of single elements replacing U^{4+} in the lattice of the uraninite is different. Different assumptions exist on the form of the radiogenic lead in the lattice (Refs 3,4,6,10-12). Pb^{4+} is according to the author's opinion the most probable form of Pb in the uraninites being placed in the intersection points (uzly) of the lattice (in accordance with Ref 8). An increase of the parameter in question may be expected with the rising content of radiogenic lead in the uraninite. But this increase has to compensate itself, so to say, by the smaller radius of the U^{6+} which is produced by self-oxidation in quantities equivalent to those of the radiogenic lead. The diagram (Fig 1) shows the dependence between a_0 of the investigated uraninites and the content of Pb, Th, and TR

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On the Effect of Admixtures Upon the Parameter of the Uraninite Cell SOV/20-126-6-54/67

(in gram-atomic percentages). The data of table 3 were used for its construction. The curves of figure 1 show that the said parameter increases regularly with rising content of Pb and Th. The admixture of rare earths causes on the contrary a decrease. There are 1 figure, 3 tables, and 12 references, 6 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

PRESENTED: January 21, 1959, by N. V. Belov, Academician

SUBMITTED: January 5, 1959

Card 3/3

LEONOVA, V. A.

Cand Med Sci - (diss) "Experience in the use of novocaine for bronchial asthma." Leningrad, 1961. 20 pp; (Leningrad Pediatrics Medical Inst); 250 copies; price not given; (KL, 5-61 sup, 203)

LEONOVA, V.A.; NIKITIN, Yu.V.

Mineralogy of monazites in pegmatite veins of the Chupa region. Zap.Vses.min.cb-va 92 no.2:136-145 '62. (MIRA 15:6)

1. Leningradskiy gosudarstvennyy universitet, Laboratoriya geologii dokembriya AN SSSR.
(Chupa region--Monazite) (Chupa region--Pegmatites)

LEONOVA, V.A.; NIKITIN, K.V.

The mineralogy of the monazites in the pegmatite veins in Chupa. Analele geol geogr 17 no.1:45-56 Ja-Mr '63.

LEONOVA, V.A.; GALIBIN, V.A.

Association between zirconium and hafnium in zircons from pegmatites and gneisses from the White Sea region which enclose them. Dokl. AN SSSR 153 no.5:1168-1171 D '63. (MIRA 17:1)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akademikom N.V. Belovym.

L 53517-65 EWP(e)/EWT(m)/EWP(w)/EWP(i)/EWA(d)/T/EWP(t)/EWP(b)/EWA(c)
IJP(c) JD

ACCESSION NR: AP5011929 UR/0363/65/001/003/0343/0346
541.123+546.27+546.27 +546.28

AUTHOR: Zemskov, V. S.; Rozhdestvenskaya, V. V.; Leonova, V. D.

TITLE: Interaction between boron, germanium, and silicon during crystallization of solid solutions based on these elements

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 3, 1965, 343-346

TOPIC TAGS: boron, germanium, silicon, solid solution, distribution coefficient, alloy

ABSTRACT: Effective distribution coefficients of boron between liquid and solid phases of germanium-silicon alloys containing 15 and 47.8 atom % of silicon were determined. Concentration of boron in the solid solution was determined on the basis of the specific electrical conductivity which is proportional to the boron concentration in Si-Ge alloys of constant Si to Ge atomic ratio. An increase of boron concentration in the solid phase from $1.7 \cdot 10^{18}$ to $1.2 \cdot 10^{20}$ atoms per cm^3 in a Ge-Si alloy containing 15 atom % of Si results in a reduction of the effective

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ACCESSION NR: AP5011929

distribution coefficient of boron from 28.1 to 9.1. An increase of boron concentration from $3.8 \cdot 10^{19}$ to $3.8 \cdot 10^{20}$ atoms per cm^3 in the Ge-Si alloys containing 47.8 atom % of Si results in a reduction of the effective distribution coefficient of boron from 16.8 to 4.3 atom % per cm^3. For comparison, the literature [H. E. Bridges, E. D. Kolb, *J. Chem. Phys.*, 25, 648 (1956)] gives 17 as the effective distribution coefficient of boron in germanium. Orig. art. has: 1 table, and 15 formulas.

ASSOCIATION: Institut metallurgii im. A. A. Baykova (Institute of Metallurgy)

SUBMITTED: 19Jun64 ENCL: 00 SUB CODE: MM

NO REF SOV: 005 OTHER: 002

Card 2/2

SOKOLOVA, A.A.; BURMISTROVA, Ye.M.; YALYNNAYA, F.I.; BRODYANSKAYA, Ye.I.; SHIRYAYEVA, K.K.; LEONOVA, V.F.; KOTEL'NIKOVA, Z.V.

Treatment of pericementitis in one visit. Stomatologiia 39 no.1: 15-17 Ja-F '60. (MIRA 14:11)

1. Iz TSentral'noy polikliniki Ministerstva vnutrennikh del SSSR (nachal'nik M.D. Kormilitsyn).
(GUMS--DISEASES)

LEONOVA, V.G. (Krasnoyarsk)

Dynamics of the qualitative erythrocyte content in hemolytic disease of the newborn. Vop.biofiz., biokhim.i pat.erit. no.2: 306-312 '61. (MIRA 16:3)
(ERYTHROCYTES) (ERYTHROBLASTOSIS FETALIS)

LEONOVA, V. I.

"Case of Ascariasis of the Biliary Tract," Khirurgiya, No.4, 1948

Propaedeutical Surgical Clinic. Stavropol Med. Inst.

LEONOVA, V.I.

Brain abscess of otogenic origin with rupture into the respiratory center. Vest.otorin. 22 no.6:85-87 '60. (MIRA 14:1)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. - prof. B.S. Preobrashenskiy) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta.
(BRAIN—ABSCESS) (EAR—DISEASES)

LEONOVA, V.I., Cand. Med. Sci., — (diss) "Condition of Otorhinolaryngological Organs in women during the normal course of pregnancy," Moscow, 1961, 20 pp (First Moscow Medical Institute im. I. M. Sechenov), 250 copies (KL-Supp 9-61, 191)

LEONOVA, V. I.

Changes in hearing in women during normal pregnancy. Vest. otorin. no.3:44-52 '61. (MIRA 14:12)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. - prof. - B. S. Preobrazhenskiy) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova.

(PREGNANCY, COMPLICATIONS OF) (HEARING)

LEONOVA, V.I.

State of the larynx in women during a normal course of pregnancy. Zhur. ush. nos. i gorl. bol. 23 no.2:66-68 Mr-Ap'63. (MIRA 16:8)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - prof. B.S. Preobrazhenskiy) lechebnogo fakul'teta 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I.Pirogova.
(PREGNANCY) (LARYNX—DISEASES)

IRONOVA, V.I., kand.med.nauk

Allergic and toxic reactions during the use of antibiotics.
Vest. otorin. 25 no.5:[illegible] Sep [illegible]. (MIRA 17:[illegible])

1. Iz Chetvertogo glavnogo upravleniya (nachal'nik [illegible] prof. A.M.Markov), nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR (prof. B.S.Preobrazhenskiy), Ministerstva zdravookhraneniya SSSR.

LEONOVA, V.I., kand.med.nauk; SKULIMOVSKAYA, G.A.

Treatment of chronic eczema of the external ear canal with corticosteroid hormone ointments. Vest. derm. i ven. 38 no.4:79-81 Ap '64. (MIRA 18:4)

1. 4-ye Glavnoye upravleniye pri Ministerstva zdravookhraneniya SSSR (nauchnyy rukovoditel' rabory - chlen-korrespondent AMN SSSR prof. V.A.Rakhmanov), Moskva.

SPERANSKIY, N.I.; GLAGOLEVA, N.A.; ZOTOVA, A.T.; LEONOVA, V.M.; ROZENBLIT, Ye.I.; STUDNITSYNA, L.A.

Result of using aeroion therapy in hypertension and stenocardia. Vop.kur., fizioter. i lech. fiz. kul't. 28 no.2:130-135 Mr-Ap'63. (MIRA 16:9)

1. Iz terapevticheskogo otdeleniya (zav. - prof. N.I. Speranskiy) kliniki TSentral'nogo instituta kurortologii i fizioterapii (dir. - kand. med.nauk G.N.Pospelova)

(HYPERTENSION) (AIR, IONIZED--THERAPEUTIC USE)
(ANGINA PECTORIS)

KRYLOV, N.P., starshiy nauchnyy sotrudnik; LEONOVA, V.M., mladshiy nauchnyy sotrudnik

"Aeroion therapy of hypertension" by F.G.Portnov. Reviewed by N.P.Krylov, V.M.Leonova. Vop.kur., fizioter.i lech.fiz.kul't. 27 no.3:273-274 My-Je '62. (MIRA 15:9)

1. Zaveduyushchiy kabinetom aeroionoterapii TSentral'nogo instituta kurortologii i fizioterapii (for Krylov).
(HYPERTENSION) (AIR, IONIZED--THERAPEUTIC USE)

SPERANSKIY, N. I.; GLAGOLEVA, N. A.; ZOTOVA, A. T.; LEONOVA, V. M.; ROZENBLIT, Ye. I.; STUDNITSYNA, L. A. (Moskva)

Treatment of stenocardia with novocaine electrophoresis in Zakharin-Head' zones. Klin. med. no.9:103-106 '61. (MIRA 15:6)

1. Iz terapevticheskoy kliniki (zav. - prof. N. I. Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (dir. G. N. Pospelova)

(ANGINA PECTORIS) (NOVOCAINE)

KOZ'MIN, V.D.; LEONOVA, V.N.

Change in the quantity of eosinophils in the peripheral blood in healthy people due to the administration of strychnine, caffeine and ephedrine. Nauch. trudy Riaz. med. inst. 15:38-41 '62. (MIRA 17:5)

1. Kafedra fakul'tetskoy terapii (ispolnyayushchiy obyazannosti zaveduyushchego kafedroy - dotsent N.A.Ardamatskiy) Ryazanskogo meditsinskogo instituta imeni Pavlova.

LEONOVA, V.N.; KOZ'MIN, V.D.; CHERNOGOROVA, M.N.

Effect of ephedrine and aloe on the function of the adrenal cortex. Nauch. trudy Riaz. med. inst. 15:53-55 '62. (MIRA 17:5)

1. Kafedra fakul'tetskoy terapii (zav. kafedroy - dotsent G.A.Bashtayants) Ryazanskogo meditsinskogo instituta imeni Pavlova.

LEONOVA, Ye.F.

Pharmacology of Xanthium strumarium [with summary in English]. Fiziol. zhur. [Ukr.] 3 no.6:137-142 D '57. (MIRA 11:2)

1. Odes'kiy medichniy institut im. M.I.Pirogova, kafedra farmakologii
(PHARMACOLOGY) (COCKLEBURS)

LEONOVA, V.I.

Changes in the nose, nasopharynx and olfactory sense in pregnancy. [with summary in English]. Vest.oto.-rin. 20 no.3:52-57 My-Je '58 (MIRA 11:6)

1. Iz kliniki bolezney ukha, gorla i nosa (dir. - deystvitel'nyy chlen AMN SSSR prof. B.S. Preobrazhenskiy) Lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta.

(PREGNANCY, physiol.
nose, nasopharynx & olfactory sense changes (Rus))
(NOSE, in pregn.
changes (Rus))
(SMELL
olfactory sense changes in pregn. (Rus))
(NASOPHARYNX, in pregn.
changes (Rus))

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SOV/78-4-11-5/50

5(2)

AUTHORS: Mikheyeva, V. I., Selivokhina, M. S., Leonova, V. V.

TITLE: On the Conditions of the Formation of a Chlorine-containing Derivative of Aluminum Hydride

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11, pp 2436-2442 (USSR)

ABSTRACT: A survey of publications shows that there is disagreement on the precise composition and the properties of the compound AlH_nCl_{3-n}, which has so far not been prepared in crystalline state. The authors first repeated H. I. Schlesinger's experiments (Ref 1). They also obtained AlH_3AlCl_3 as a fuming, non-crystalline liquid. When studying the synthesis of $LiAlH_4$ under intense cooling and using coarse-disperse lithium hydride, they obtained, however, needle-shaped crystals (Fig 1) which contained aluminum, hydrogen, and chlorine, but no lithium. Their heating curve exhibits a thermal effect other than that of $LiAlH_4$ and is characterized especially by the explosive exothermic transformation at 109°C (Fig 2). Analysis of this sub-

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USSR / Pharmocology and Toxicology--Medicinal Plants V-5

Abs Jour: Ref Zhur-Biol, No 23, 1958, 107354

Author : Leonova, E. F.

Inst : Not given

Title : On the Pharmacology of Xanthium Strumarium

Orig Pub: Fiziol. zh., 1957, 3, No 6, 137-142

Abstract: An infusion and tincture of Xanthium strumarium (XS) in a dilution of 1:100, 1:50, and 1:20 does not change the rhythm and the force of the contractions of an isolated frog's heart. In a dilution of 1:10 and 1:5, XS depressed the conductivity, as a result of which a block of the heart is developed. XS lowers the sensitivity of the heart to acetylcholine. XS causes the dilatation of the vessels of

Card 1/2

LEONOVA, Ye.F.

Rate of absorption and elimination of radioactive phosphorus by the cardiac muscle. Vrach.delo no.7:687 Jl '57. (MLRA 10:8)

1. Kafedra farmakologii (zav. - prof. S.V.TSyganov) Odesskogo meditsinskogo instituta
(PHOSPHORUS--ISOTOPES) (HEART)

LEONOVA, Ye.F.

Effect of caffeine on phosphorus metabolism in the cardiac. and skeletal muscles. Vrach.delo no.9:921-924 S'58 (MIRA 11:10)

1. Kafedra farmakologii (zav. - prof. S.V. Tsyganov) Odesskogo meditsinskogo instituta.
(CAFFEINE)
(PHOSPHORUS METABOLISM)

LEONOVA, Ye.F.

Arterial pressure changes in animals irradiated under ether and hexenal anesthesia [with summary in English]. Med.rad. 4 no.2: 3-10 F '59. (MIRA 12:4)

1. Iz kafedry farmakologii (zav. - prof. S.V. TSyganov) i kafedry rentgenologii i radiologii (zav. - prof. Ye.D. Dubovyy) Odesskogo meditsinskogo instituta imeni N.I. Pirogova.

(ANESTHESIA, effects,
on blood pressure changes in irradiated animals (Rus))
(BLOOD PRESSURE, effect of radiations,
x-rays, in anesthetized animals (Rus))
(ROENTGEN RAYS, effects,
on blood pressure in anesthetized animals (Rus))

KAYZERMAN, M.M., mayor meditsinskoy sluzhby; ZAVRAZHIN, M.K., podpolkovnik meditsinskoy sluzhby; KNYAZEV, S.V., podpolkovnik meditsinskoy sluzhby; KOBYAKOV, N.I., podpolkovnik meditsinskoy sluzhby; DOKUCHAYEV, G.M., podpolkovnik meditsinskoy sluzhby; PLETNEV, N.N., polkovnik meditsinskoy sluzhby; KHOROSHCHEV, V.D., podpolkovnik meditsinskoy sluzhby; GORBACHIK, Ye.D., podpolkovnik meditsinskoy sluzhby; DRUKER, Yu.S.; NAZAROV, K.M.; KOMOGOROV, P.R., polkovnik meditsinskoy sluzhby; KLIMENKO, A.V., podpolkovnik meditsinskoy sluzhby; RYAKHOVSKIY, I.Ye., podpolkovnik meditsinskoy sluzhby; IVAN'KOVICH, F.A.; GUBIN, S.V., kapitan meditsinskoy sluzhby; ZOTOV, I.G., kapitan meditsinskoy sluzhby; LEONOVA, Ye.I.; BUNTOVSKIY, P.A., mayor meditsinskoy sluzhby; GERASIMOV, A.N., podpolkovnik meditsinskoy sluzhby; GUR'YEV, I.A., kapitan meditsinskoy sluzhby; KOLDOBSKIY, S.Z., mayor meditsinskoy sluzhby

Abstracts. Voen. med. zhur. no.10:74-79 O '65.
(MIRA 18:11)

LEONOVA, Ye.N.

Synthesis of secondary uranium phosphates and arsenates. Trudy IGEM no.30:37-55 '58. (MIRA 12:10)
(Uranium ores)

LEONOVA, Ye. P.

LEONOVA, Ye. P. "Contact reactions of subalkaline intrusions upon the dolomitized limestones in Aldanskiy rayon," Uchen. zapiski (Leningr. gos. ped in-t im. Gertsena), Vol LXXII, 1948, p. 109-24

SO: U-3566, 15 March, 53 (Letopis 'Zhurnal Inykh Statey, No. 14, 1949).

15-57-4-4068

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 4 (USSR)

AUTHOR: Leonova, Ye. P.

TITLE: The Teaching of Geology in Secondary Schools (O predodavanii geologii v sredney shkole)

PERIODICAL: Uch. zap. Leningr. gos. ped. in-t, 1956, Vol 117, pp 15-31

ABSTRACT: S. A. Yakovlev is the pioneer in the introducing and teaching of geology in Soviet secondary schools. He wrote a textbook for this subject (1925) and a handbook on methodology for teaching geology in the secondary schools (1925). From 1934 on, geology was included as a subject in our school program and was taught until 1940 when the curriculum was altered because of various difficulties resulting from the war. The article emphasizes the importance of geological studies in molding the students' dialectical materialistic philosophy, and it proposes to introduce geology as an

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15-57-4-4068

The Teaching of Geology in Secondary Schools (Cont.)

independent subject in the secondary school. Such a course should not be designed as a unit and not divided into mineralogy, petrography, etc. The teaching of geology should not be done by teachers of geography who are ignorant of chemistry and only slightly acquainted with biology, but rather by general science teachers (after appropriate preparation).

Card 2/2 G. I. D.

15-57-5-6142

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, p 64 (USSR)

AUTHOR: Leonova, Ye. P.

TITLE: The Petrography of the Post-Jurassic Intrusive Bodies on the Yakokut-Kuronnakh Divide (Aldan) /Petrografiya posleyurskikh intruzivnykh tel Yakokut-Kuronnakhskogo vodorazdela (Aldan)/

PERIODICAL: Uch. zap. Leningr. gos. ped. in-t, 1956, Vol 117, pp 103-121

ABSTRACT: The described region lies along the middle part of the divide between the Yakokut and Kuronnakh Rivers, right-hand tributaries of the Aldan. The post-Jurassic intrusions occur in large bare summits (above timber line) as laccoliths, and in small plateau-like uplands as tabular intrusions. The country rocks are Archean alaskitic granites, gneisses, crystalline schists, and marbles. Cambrian deposits are also present. Post-Jurassic intrusive rocks are separated into three age

Card 1/3

15-57-5-6142

The Petrography of the Post-Jurassic Intrusive Bodies (Cont.)

groups. 1) Tabular intrusions of quartz and quartz-free porphyrite and orthophyries. The quartz porphyries consist of phenocrysts of plagioclase (An_{30-40} predominantly), potassium feldspar, and quartz in a groundmass of potassium feldspar, quartz, and a small quantity of plagioclase. The orthophyries are characterized by trachytic texture in a groundmass consisting of laths of potassium feldspar and by phenocrysts of oriented crystals of microcline. 2) Alcalic rocks of the second age-group consist of the following varieties: aegerine syenite--containing potassium feldspar, aegerine, occasional nepheline, and the accessories sphene, magnetite, apatite, and fluorite; aegerine-hornblende syenite--composed of semialkalic hornblende, aegerine, plagioclase (An_{10}) and an equal amoung of perthite; nordmarkite--consisting of perthite, with idiomorphic grains of quartz filling the interspaces (10 to 15 percent); and alaskite--consisting of perthite, quartz (approximately 1/3 the rock), and a very small quantity of aegerine. Dike rocks are represented by sölvsbergite and bostonite porphyries. Phlogopite-dicpside and muscovite-tremolite rocks occur at the contacts of the nordmarkites with limestones. 3) Alkaline-earth syenites are the most widely

Card 2/3

SERDYUCHENKO, D.P.; CLEBOV, A.V.; KADENSKAYA, M.I.; LEONOVA, Ye.P.; KADENSKIY, A.A.; PAVLOV, V.A.; PUSTOVALOV, L.V., otv.red.; KOTLYAREVSKAYA, P.S., red.izd-va; GUJ'KOVA, O.M., tekhn.red.

[Iron ores of southern Yakutia; geology, mineralogy, genesis and industrial importance] Zheleznye rudy IUzhnoi IAkutii; geologiia, mineralogiia, genezis i promyshlennoe znachenie. Moskva, Izd-vo Akad.nauk SSSR, 1960. 519 p. (MIRA 13:6)

1. Chlen-korrespondent AN SSSR (for Pustovalov).
(Yakutia--Iron ores)

LEONOVA, Ye.V., kand.med.nauk

Changes in the electroencephalogram, electrocardiogram, and respiration following repeatedly reproduced anemia of the brain. Zdrav. Bel. 6 no.11:34-37 N '60. (MIRA 13:12)

1. Iz kafedry patologicheskoy fiziologii (zaveduyushchiy - chlen-korrespondent AN BSSR A.Yu.Bronovitskiy) Minskogo meditsinskogo instituta.

(ELECTROENCEPHALOGRAPHY) (ELECTROCARDIOGRAPHY)
(RESPIRATION)

GURVICH, G.I., kand.med.nauk; LEONOVA, Ye.V., kand.med.nauk

Changes in the electroencephalogram, electrocardiogram and respiration in repeatedly reproduced anemia of the brain under conditions of rarefied atmosphere. Zdrav. Bel. 7 no. 2:31-34 F '61. (MIRA 14:2)

1. Iz kafedry patologicheskoy fiziologii (zaveduyushchiy - chlen-korrespondent AN BSSR prof. A.Yu. Bronovitskiy) Minskogo meditsinskogo instituta.

(ELECTROENCEPHALOGRAPHY) (ELECTROCARDIOGRAPHY) (RESPIRATION) (BRAIN--ANEMIA)

LEONOVA, Ye.V., kand.med.nauk

Dynamics of the changes in arterial blood pressure during temporarily repeated reproduction of brain anemia. Zdrav.Bel. 8 no.12:30-35 D '62. (MIRA 16:1)

1. Iz kafedry patologicheskoy fiziologii (zav. - chlen-korrespondent AN BSSR prof. A.Yu.Bronovitskiy) Minskogo meditsinskogo instituta.

(BLOOD PRESSURE) (BRAIN--ANEMIA)

LEONOVA, Ye.V., kand.med.nauk

Characteristics of the peripheral blood in multiple induced cerebral anemia. Zdrav.Bel. 8 no.2:36-39 F '62. (MIRA 15:11)

1. Iz kafedry patologicheskoy fiziologii (zav. - chlen-korrespondent AN BSSR prof. A.Yu.Bronovitskiy) Minskogo meditsinskogo instituta.

(BRAIN--BLOOD SUPPLY) (ANEMIA)
(CAROTID ARTERY--LIGATURE)

LEONOV, Ye.P.

Some clinical and pathophysiological criteria for the differentiation of bacteriochlorosis and primary peptidases. Zhur. nevr. i psikh. 56 no.10:1537-1540 '56. (MIRA 18:10)

1. Okeanskiy [illegible] Institut (direktor O.V. Stepanenko), Khar'kov.

LEONOVA, Yu.I., Cand Med Sci -- (diss) "Effect of iron ore dust of the Krivbass on the organism of animals in the laboratory." Dnepropetrovsk, 1958, 12 pp (Min of Health UkSSR. Dnepropetrovsk State Med Inst) 200 copies (KL, 32-58, 112)

LEONOVA, Yu. I.

Effect on the animal body of various types of iron ore dust and dusts containing quartz. Vrach.delo no.6:619-621 Je '58 (MIRA 11:7)

1. Patomorfologicheskaya laboratoriya (nauchnyy rukovoditel' - st.nauchn. sotr. M.G. Ivanova) Ukrainskogo instituta gigiyeny truda i professional'nykh zabolevaniy.
(LUNGS--DUST DISEASES)

LEONOVA, Yu.I. (Khar'kov)

Mechanism of the action of iron ore dust on the human & animal organism [with summary in English]. Arkh.pat. 20 no.3:60-66 '58. (MIRA 11:5)

1. Iz patomorfologicheskoy laboratorii (nauchnyy rukovoditel'-starshiy nauchnyy sotrudnik M.G. Ivanova), Ukrainskogo tsentral'nogo instituta gigiyeny truda i profzabolevaniy (dir.-dotsent I.I. Semernin)

(SIDEROSIS, pathol.
localization of iron ore dust in resp. tract & pathol. mechanisms (Rus)

6(4)

AUTHORS: Leonova, Z. M., Pass, M. I., Porotskiy, F. Ya., Solov'yev, G. F.

SOV/108-13-11-6/15

TITLE: Experience When Using Strong Oscillator Tubes in Impulse Operation (Opyt ispol'zovaniya moshchnykh generatornykh lamp v impul'snom rezhime)

PERIODICAL: Radiotekhnika, 1958, Vol 13, Nr 11, pp 39-43 (USSR)

ABSTRACT: The possibility of using strong oscillator tubes with active cathode, which are intended to be used for continuous operation, are investigated in pulsed apparatus. The preliminary tests, which were carried out by B. I. Polyakov, B. T. Zarubin, B. M. Gutner and K. N. Bulychev, gave positive results. On the strength of these results investigations of these tubes were carried out on a larger scale from 1955 to 1956. Work was carried out in two directions: 1) Testing of the tubes in static operation for the purpose of obtaining the entire family of static characteristics necessary for calculating the impulse-operation of the generator. 2) Control of dynamical operation for the purpose of checking the working of tubes in pulsed

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Experience When Using Strong Oscillator Tubes in Impulse Operation SOV/108-13-11-6/15

operation and especially in ultrashortwave generator circuits to be used in practice. Possibilities of extending the frequency range and of considerably increasing the impulse power output are pointed out. The results obtained by investigations are discussed. The tests carried out showed that it is possible to use strong oscillator tubes for continuous work at low frequencies. The output values in the pulse obtained surpassed the nominal ones by a multiple (in the case of continuous operation). On the basis of the results obtained it may be concluded that it is possible to use strong oscillator tubes with thoriated cathodes in pulse generators at frequencies of 100 to 150 megacycles.

Z. I. Model', G. M. Drabkin, Z. M. Lifshits, and G. M. Moskovskaya advised the authors. A. I. Mermonshteyn, Engineer, and A. Ye. Karpova, Engineer, took part in the experiments.

Card 2/3

Experience When Using Strong Oscillator Tubes in Impulse Operation SOV/108-13-11-6/15

There are 5 figures and 1 table.

SUBMITTED: December 6, 1957

Card 3/3

LEONOVICH, A.L.; ROGATINSKAYA, F.A.

Study of globulin fractions in the blood serum of multiple sclerosis patients by means of electrophoresis. Zdrav. Belor. 5 no.4:36-38 Ap '59. (MIRA 12:7)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta nevrologii, neyrokhirurgii i fizioterapii (direktor Ye. F. Kalitovskiy, nauchnyy rukovoditel' - prof. D. A. Markov).
(BLOOD PROTEINS) (MULTIPLE SCLEROSIS)
(ELECTROPHORESIS)

LEONOVICH, A.L.

Atypical forms of multiple sclerosis. Zdrav. Belor. 5 no.9:41-42 S '59. (MIRA 12:12)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta nevrologii, neyrokhirurgii i fizioterapii (nauchnyy rukovoditel' - prof. D.A. Markov).

(MULTIPLE SCLEROSIS)

MARKOV, D.A.; LEONOVICH, A.L.

Unsolved problems with etiology, pathogenesis, and therapy of multiple sclerosis. Zhur. nevr. i psikh 59 no.5:513-517 '59. (MIRA 12:7)

1. Kafedra nervnykh bolezney (zav. - prof. D.A. Markov) Belorrusskogo instituta usovershenstvovaniya vrachey, Minsk.
(MULTIPLE SCLEROSIS,
etiol., pathogen. & ther. (Rus))

LEONOVICH, A.L. (Minsk)

Some current problems in the clinical aspects, etiology and pathogenesis of multiple sclerosis. Klin.med. 38 no.9:43-48 S '60. (MIRA 13:11)

1. Iz Belorusskogo nauchno-issledovatel'skogo instituta nevrologii, neyrokhirurgii i fizioterapii (dir. - kand.med.nauk Ye.F. Kalitovskiy, nauchnyy rukovoditel' - akad. D.A. Markov).
(MULTIPLE SCLEROSIS)

LEONOVICH, A.L. (Minsk)

Change in the reactivity of the body as a basis for pathogenetic therapy in multiple sclerosis. Zhur. nevr. i psikh. 60 no.11:1453-1457 '60. (MIRA 14:5)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii (dir. - kandidat meditsinskikh nauk Ye.F.Kalitovskiy, nauchnyy rukovoditel' - prof. D.A.Markov), Minsk.

(MULTIPLE SCLEROSIS)

LEONOVICH. A. L. Cand Med Sci -- "Clinical peculiarities of multiple sclerosis in connection with serological and allergic reactions." Smolensk, 1961 (Smolensk State Med Inst). (KL, 4-61, 209)

LEONOVICH, A.L.; ROGOTINSKAYA, F.A.

Correlation of protein fractions of the cerebrospinal fluid and the blood serum in patients with multiple sclerosis. Dokl. AN BSSR 5 no.12:589-591 D '61. (MIRA 15:1)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii. Predstavleno akademikom AN BSSR D.A.Markovym.

(MULTIPLE SCLEROSIS) (PROTEINS IN THE BODY)

MARKOV, D.A.; LEONOVICH, A.L.

Neuroallergic pathogenesis of multiple sclerosis. Vest. AMN SSSR 16 no.6:18-22 '61. (MIRA 15:1)

1. Naucchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii Ministerstva zdravookhraneniya Belorruskoy SSR i Belorusskiy institut usovershenstvovaniya vrachey.
(MULTIPLE SCLEROSIS) (ALLERGY)

LEONOVICH, A.L.; SIZONENKO, T.P.

Hemato-encephalic barrier in disseminated sclerosis following endolumbar injections of vitamin-B_{12}. Dokl. AN BSSR 6 no.5:337-339 My '62. (MIRA 15:6)

1. Belorusskiy institut usovershenstvovaniya vrachey i Belorusskiy nauchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii. Predstavleno akademikom AN BSSR D.A. Markovym.

(SCLEROSIS)
(CYANOCOBALAMIN)

LEONOVICH, A.L.

Case of dystrophia myotonica. Zdrav.Bel. 8 no.7:76-77 Jl '62. (MIRA 15:11)

1. Iz kliniki nervnykh bolezney (zaveduyushchiy kafedroy - prof. D.A.Markov) Belorusskogo instituta usovershenstovaniya vrachey (rektor - dotsent N.Ye. Savchenko).
(MYOTONIA)

VIL'NER, B.Ya.; LEONOVICH, A.L.

Importance of functional stress tests in the early diagnosis of disseminated sclerosis. Dokl. AN BSSR 7 no.1:62-65 Ja '63. (MIRA 17:1)

1. Institut fiziologii AN BSSR i Belorusskiy gosudarstvennyy institut usovershenstvovaniya vrachey. Predstavleno akademikom AN BSSR D.A. Markovym.

OSIPOVA, Ya.K.; LEONOVICH, A.L.

Effect of the cerebrospinal fluid and blood serum of patients with multiple sclerosis on the peroxidase of the spinal cord in rats. Dokl. AN BSSR 7 no.4:277-279 Ap '63. (MIRA 16:11)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii, neyrokhirurgii i fizioterapii i Belorusskiy institut usovershenstvovaniya vrachey. Predstavleno akademikom AN BSSR D.A. Markovym.

KRASNIKOVA, Ye.Ya.; [illegible], [illegible], kand. med. nauk

Spontaneous nasal liquorrhea. Zdrav. Bel. 9 no.6:81-84 Je '63. (MIRA 17:5)

1. Iz Belorusskogo instituta nevrologii, neyrokhirurgii i fizioterapii i kliniki nervnykh bolezney Belorusskogo instituta usovershenstovaniya vrachey.

LEONOVICH, A.L.

Differential diagnosis of some demyelinating diseases. Zh. nevropat. psikhiat. Korsakov 63 no.3:339-345 '63 (MIRA 17:1)

1. Kafedra nervnykh bolezney (zav. - prof. D.A. Markov) Belorusskogo instituta usovershenstvovaniya vrachey, Minsk.

MARKOV, D.A.; LEONKOVICH, [illegible]

Differential diagnosis and pathogenesis of familial forms of multiple sclerosis. Zhur. nevr. i psikh. 64 no.6:[illegible] '64. (MIRA [illegible])

1. Belorusskiy institut nevrologii, neyrokhirurgii i fizioterapii, i Kafedra nervnykh bolezney Belorusskogo instituta usovershenstvovaniya vrachey, Minsk.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929310001-6"

[illegible], B.Ye.; [illegible]; [illegible]; [illegible]

Detection of incomplete [illegible] in [illegible] patients using the [illegible] test. [illegible] i polik. 65 no.11:1606-1610 '65. [illegible]

1. Belorusskiy institut epidemiologii, [illegible] (direktor V.I.Votyakov) i Belorusskiy [illegible] (direktor I.M.Antonov), Minsk.

LEONOVICH, A.L.

Significance of the [illegible] hypophysis - adrenal glands in [illegible] psikh. 65 no.11:1627-1631 [illegible].

1. Kafedra nervnykh bolezney [illegible] Belorusskogo instituta usovershenstvovaniya [illegible].

LEONOVICH, A.L.

Significance of experimental histochemical and chemical studies of peroxidase and acid phosphatase in the diagnosis of multiple sclerosis. Dokl. AN BSSR 9 no.6:422-424 Je '65. (MIRA 18:9)

1. Belorusskiy gosudarstvennyy institut usovershenstvovaniya vrachey.

L 35445-65 EEC(b)-2/EWG(j)/EEC(k)-2/EWA(h)/EWT(1)/EWT(m)/EEC(t)/FBD/T/EWA(m)-2/
EWP(e) Pf-4/Pi-4/Pl-4/Pn-4/Po-4/Pab IJP(c) WH/WG

ACCESSION NR: AP5006530 S/0056/65/048/002/0752/0756

AUTHOR: Bel'skiy, N. K.; Leontovich, A. M.

63
56
B

TITLE: Negative dispersion at the R_1 line in ruby

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 2, 1965, 752-756

TOPIC TAGS: ruby laser, population inversion, dispersion, refractive index

ABSTRACT: The authors investigated the dispersion of light in ruby with an inverted population, when the substance has a very high luminescence brightness. A ruby laser was used as the light source. A ruby crystal identical to that investigated was used in lieu of quartz to compensate for the anomalous dispersion. The experimental set-up is shown in Fig. 1 of the Enclosure. The measurements, accurate to within 8%, showed that the vertical distance between the maximum and minimum of the dispersion curve under pumping conditions exceeds by 36% that for the anomalous dispersion, thus indicating a change in the refractive index by 3.7×10^{-6} as compared with the unexcited ruby. The population inversion is consequently also 36%, and agrees with the results obtained by luminescence measurement under similar conditions (M. D. Galanin and Z. A. Chizhikova, Optika i

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L 35445-65

ACCESSION NR: AP5006530

spektroskopiya v. 17, 402, 1964). It is thus shown that the measurement of the negative dispersion makes it possible to determine directly the population inversion. "The authors thank I. V. Obreimov for guidance, M. D. Galanin for continuous interest, B. L. Livshitz for a discussion, and S. V. Grum-Grzhimaylo (Institut kristallografii AN SSSR [Institute of Crystallography AN SSSR]), who supplied the ruby crystals." Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy of Sciences SSSR); Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 13Oct64 ENCL: 01 SUB CODE: OP, EC

NO REF SOV: 003 OTHER: 003

Card 2/3

L 35445-65

ACCESSION NR: AP5006536 ENCLOSURE: 01

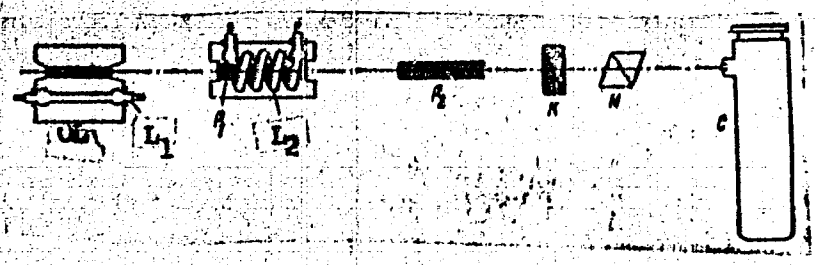

Fig. 1. Optical system for dispersion observation

OL - laser, L_1, L_2 - high intensity lamps, P - ruby crystal, K - quartz wedge, N - Vlasov prism, C - spectrograph

Card 3/3

LEONOVICH, B.N.; ALEKSEYEV, Ye.Ye.; IVANOV, A.I.; KOTSYUBNYAK, A.V.; KACHALKIN, A.P.; TUZHILKIN, A.P.; KUDRYAVSKIY, R.T., mashinist; SHAPIRO, M.M.

Brief resumé of the speeches made at the conference of the representatives of the collectives and shock workers of communist labor engaged in the operation and maintenance of locomotives. Elek. i tepl. tiaga 7 no.9:1-7 S '63. (MIRA 16:10)

1. Nachal'nik depo Grebenka Yuzhnoy dorogi (for Leonovich). 2. Nachal'nik depo kommunisticheskogo truda Moskva-Sortirovochnaya (for Alekseyev). 3. Nachal'nik depo kommunisticheskogo truda Liski Yugo-Vostochnoy dorogi (for Ivanov). 4. Obshchestvennyy mashinist-instruktor, sekretar' partiynogo byuro depo Mukachevo L'vovskoy dorogi (for Kotsyubnyak). 5. Zaveduyushchiy otdelom zarabotnoy platy i proizvodstvenno-massovoy raboty TSentral'nogo komiteta professional'nogo soyuza rabochikh zheleznodorozhnogo transporta (for Kachalkin). 6. Master tsekha kommunisticheskogo truda po remontu topliynoy apparatury depo Rtishchevo Privolzhskoy dorogi (for Tuzhilkin). 7. Depo Irkutsk-Sortirovochnyy Vostochno-Sibirskoy dorogi (for Kudryavskiy). 8. Starshiy master depo Tashkent Sredneaziatskoy dorogi (for Shapiro).

LEONOVICH, B.N., inzh.; KALAYDA, I.S., inzh.

Achieving a high operative efficiency of diesel locomotives. Zhel. dor.transp. 45 no.8:65-69 Ag '63. (MIRA 16:9)

1. Nachal'nik depo Grebenka Yuzhnoy dorogi (for Leonovich).
2. Nachal'nik tekhnicheskogo otdela depo Grebenka Yuzhnoy dorogi (for Kalayda).

(Diesel locomotives)