L 4980-66 EWT(m) DIAAP

ACC NR: AT5024244 SOURCE CODE: UR/2670/65/000/032/0081/0093

AUTHOR: Shangin-Berezovskiy, G. N. 20 B+1

ORG: Institut genetiki, Akademiya nauk SSSR (Institute of Genetics, Academy of Sciences, SSSR)

TITLE: Embryonic selection and the number of chlorophyll mutations

SOURCE: AN SSSR. Institut genetiki. Trudy, no. 32, 1965. Deystviye ioniziruyushchikh izlucheniy na rastitel'nyy i zhivotnyy organizmy (Effect of ionizing radiation on plant and animal organisms), 81-93

TOPIC TAGS: plant genetics, biologic mutation, plant development, radiation plant effect 19

ABSTRACT: This work is part of a continuing investigation of the ability of cultivation conditions, in combination with irradiation, to affect the mutation process in plants. Varieties of barley with a recessive trait for chlorophyll mutations were selected. Parent plants from which experimental seeds were taken had been exposed to gamma rays (dose of 6—9 krad), or to fast neutrons (dose 300 rad). Results showed that germination of these seeds at high (26C) and low (6—9C) temperatures causes a different mortality of germinated seeds and a different level of variability,

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as determined from the frequency of chlorophyll mutations. Lowered temperature assists the development of more mutations and results in a wider spectrum of chlorophyll mutants. It was postulated that the causes of selection under different temperature conditions are probably different. The relatively low level of variability at high temperatures cannot be explained by negative selection only. Results of these and other experiments suggest that, depending on the germination conditions of second-generation seeds, both positive and negative selection of changes occurs, along with recovery processes. At high temperatures, negative selection takes place, which is connected with the need for a high respiration level and excessive consumption of important compounds in sensitive and weak mutant seeds. At relatively low temperatures, positive selection of mutations takes place, associated with the transition of potential into real changes and with processes of repair of chlorophyll synthesis. Plants which die under more severe conditions of germination (as at increased temperature) or undergo tissue selection, replacing abberrant cells with normal ones, live at low temperatures and are counted as mutants. Plants which under optimum development conditions remain latent mutants, under relatively unfavorable conditions show their mutant nature. Orig. art. has: 1 figure and 6 tables. [JS]

SUB CODE: LS/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 009

Card 2/2

SHANGINA, K. I., ILIN, V. S., and TRUFANOV, N. F. (USSR)

"The Inclusion of 35S Methionine into Proteins of the Liver in Block and -Circumvention- of the Glucokinase Reaction."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

SHANGINA, L.K., kandidat tekhnicheskikh nauk

Tapping power from a contact network for the needs of intermediate railroad stations. Sbor. LIIZHT no.145:34-47 '53. (MLRA 8:10)
(Electric railroads)

SHANGINA, L., dots. (Leningrad)

Apparatus for taking power off contact networks. Zhel.dor. transp. 36 no.3:81-82 Mr '55. (MIRA 12:5)
(Electric railroads--Equipment and supplies)

SHANGINA, L.K., inzhener (Leningrad)

Device for taking off three-phase current from a contact system. Zhel. dor. transp. 38 no.9:82-83 S '56. (MLRA 9:10)

(Railroads--Electric equipment)

SOV/112-59-5-9133

32(3)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 104 (USSR)

AUTHOR: Shangina, L. K.

TITLE: Investigation of a 3-Phase Inverter Used for Supplying Track Apparatus

PERIODICAL: Sb. Leningr. in-ta inzh. zh.-d. transp., 1957, Nr 155, pp 127-135

ABSTRACT: Laboratory investigations of a 3-phase 2.5-kw, 500 v DC inverter used for supplying track apparatus are described. In conjunction with a ferroresonance stabilizer, the inverter reliably supplies lighting and motor loads. No additional capacitors are needed for normal operation of motors. The stabilizers ensure a steady output voltage and a good external characteristic. A short-circuit in a receiver phase results in the loss of that phase only, not in the shutdown of the whole system. The overall efficiency of the installation is 40%. Odd harmonics are strongly pronounced in the phase-to-neutral voltage of the receiver. The relation $U_{lin} < \sqrt{3}\, U_f$ holds true;

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Investigation of a 3-Phase Inverter Used for Supplying Track Apparatus

hence, it is recommended that the motors be connected to the line-to-line voltage. Alignment of the scheme is complicated. From results of the above investigations, a specification was developed on an experimental 3-phase laboratory-type, 10-kw inverter for the contact-wire 3-kv DC voltage with variations from -30% up to +10%. The secondary phase-to-neutral voltage is 130 v with a deviation within $\pm$ 5%. The grid-control circuit of the inverter should have a separate supply from the high-voltage line of the automatic block system. The thyratron cathodes are to be preheated by a starter-type storage battery. The unit efficiency is 0.7 or higher. The weight of the unit is 300 kg or less. Its cost is not more than 7,000 rubles. Bibliography: 7 items.

T.A.K.

M

: USSR

: CULTIVATED PLANTS - GRAINS

: ZHUR. BIOL., 21 [illegible] 43

: Shangina, T. G-

: Peculieritiies of Corn Cultivation in Zhana-Semeyskiy Rayon

: S.kh. Kazakhstana, 1957, No. 5, 15-20

: Data on the cultivation of corn during 1955-1956 on chestnut and light-chestnut soils in the solonetz soil complex in Semipalatinskaya Oblast'. In cob yield the best kinds were the rapidly maturing varieties and hybrids (H) VIR 42, Alma-Atinskaya 236, Aksayskaya Belaya, Krasnodarskiy 4 H and Novo-Shul'ginskaya Mestnaya, and when grown for silage and greenstuff - the bestkinds were the late maturing productive Imeretinskiy H, Krasnodarskiy H, Alma-Atinskiy H 55 and Krasnodar-

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M.

USSR/Cultivated Plants - Grains.

Abs Jour : Ref Zhur - Biol., No 19, 1953, 44063

Author : Shangina, T.G.
Inst : -
Title : Corn in the Semipalatinsk Region.

Orig Pub : Kukuruza, 1957, 12, 42-45.

Abstract : No abstract.

Card 1/1

SHUNGINA, T. G.: Master Agric Sci (diss) -- "Some problems of cultivating corn and foxtail millet in the steppe zone of Semipalatinsk Oblast". Alma-Ata, 1959. 19 pp (Min Agric USSR, Alma-Ata Zoovet Inst), 150 copies (KL, No 18, 1959, 127)

SHAL'GINA, V. F.: Master Tech Sci (diss) -- "Investigation of the lines of two-needle grinding machines". Moscow, 1959. 17 pp (Min Higher Educ USSR, Moscow Tech Inst of Light Industry), 150 copies (KL, No 14, 1959, 121

KARASEV, Vyacheslav Konstantinovich, kand. tekhn. nauk; SHAN'GINA, Vladilena Fedorovna, kand. tekhn. nauk; KRASNYANSKAYA, T.M., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Analyzing fabric cutting by series] Analiz seriinogo raskroia tkanei; iz opyta raboty shveinykh fabrik. Leningrad, 1962. 20 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Shveinaia promyshlennost', no.2) (MIRA 16:3)

(Garment cutting)

SHAN'GINA, V. F., kand. tekhn. nauk

Expedient utilization of double-needle sewing machines. Izv. vys. ucheb. zav.; tekh. leg. prom. no.4:13-20 '62. (MIRA 15:10)

1. Leningradskiy tekstil'nyy institut imeni S. M. Kirova. Rekomendovana kafedroy tekhnologii shveynogo proizvodstva.

(Sewing machines)
(Clothing industry--Production standards)

SHAN'GINA, V.F. (Leningrad)

Changes in the dimensions of quilted lining occurring in quilting with parallel stitches. Shvein. prom. no.4:21-24 Jl-Ag '62. (MIRA 16:6)

(Tailoring)

NOVIKOV, Nikolay Sergeyevich; VOROB'YEV, Valentin Alekseyevich; SHAL'GINA, V.I., red.

[Mechanization of technological processes in the "Bol'shevichka" Clothing Factory in Leningrad] Mekhanizatsiia tekhnologicheskikh protsessov na leningradskoi shveinoi fabrike "Bol'shevichka." Leningrad, 1964. 37 p. (MIRA 17:9)

SHAN'GINA, V.F. (Leningrad); IVANOVA, T.M. (Leningrad)

Particular characteristics of the construction of clothing from double fabrics. Shvein.prom. no.2:26-29 Mr-Ap '65.
(MIRA 18:6)

SHAN'GINA, Vladilena Fedorovna, kand. tekhn. nauk; MIKHAYLOVA Mariya Sergeyevna; KARASEV, V.K., kand. tekhn. nauk, red.

[Manufacture of outerwear clothing from textile fabrics lined with porolon and wool]Izgotovlenie verkhnei odezhdy iz tekstil'nykh materialov, dublirovannykh porolonom i sherstiu. Leningrad, 1964. 17 p. (MIRA [illegible])

M

USSR/Cultivated Plants. Potatoes. Vegetables. Melons.

Abs Jour: Ref Zhur-Biol., No 5, 1958,20351.

Author : Z.I. Shan'gina
Inst : Leningrad Agricultural Institute.
Title : The Critical Period's Bearing on Light Intensity in Tomatoes. (Kriticheskiy period v otnoshenii k intensivnosti sveta utomatov)

Orig Pub: Zap. Leningr. s.-kh. in-ta, 1956, vyp. 11, 30-36.

Abstract: In the Leningrad Agricultural Institute a study was made of the effect of lessened light intensity (reduction of illumination by 4-5 times) after the light stage during various periods, beginning with the phase where the embryonic protuberances of the anthers appear and through the formation of the first flowers of the cluster, in plant development. In all variations of the test, a delay was

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USSR/Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20351.

noted in florescence and fruit formation. The greatest sensitivity to reduced illumination intensity was noted in the period of development of the tetrads in the anthers of the first cluster blossom (in 8 days). Various varieties displayed different sensitivities. The most sensitive in all phases studied was the Stalingradskiy g-5/95 variety; the Polyarnyy 303 variety suffered less. The bibliography has 11 listings.

Card : 2/2

SHAN'GINA, Z. I. Cand Biol Sci -- (diss) "The Effect of ~~the~~ Intensity of Light on the Growth of Tomatoes." Len, 1957. 17 pp 20 cm. (Min of Agriculture USSR, Len Agricultural Inst), 100 copies (KL, 26 57, 107)

SHAN'GINA, Z.I.

Causes of the depression of tomato plants under conditions of insufficient light during the fourth stage of development. Fiziol. rast. 8 no.3:325-329 '61. (MIRA 14:5)

1. Leningradskiy sel'skokhozyaystvennyy institut.
(Plants, Effect of light on) (Tomatoes)

SHANGIN-BEREZOVSKIY, G.N.

Frequency and spectrum of chlorophyll mutations following ethylenimine treatment of second generation seeds of -irradiated barley. Izv. AN SSSR. Ser. biol. no.6:859-870 N-D '65. (MIRA 18:11)

1. Institut genetiki AN SSSR.

NUZHDIN, N.I.; PASTUSHENKO-STREIETS. N.A.; SHANGIN-BEREZOVSKIY. G.N.

Effect of ecologic conditions of cultivation and physiological state of seeds (degree of maturity) on the radiosensitivity, frequency and nature of hereditary changes in gamma irradiated barley. Trudy Inst. gen. no.32:18-68 '65.

(MIRA 18:10)

L 8237-66

ACC NR: AT5024243 SOURCE CODE: UR/2670/65/000/032/0069/0080

25
037/

AUTHOR: Shangin-Berezovskiy, G. N.

ORG: Institute of Genetics, Academy of Sciences SSSR (Institut genetiki, Akademiya nauk SSSR)

TITLE: The effect of ethylenimine on the development and mutability of fast-neutron-irradiated barley sown under various ecological conditions

SOURCE: AN SSSR. Institut genetiki. Trudy, no. 32, 1965. Deystviye ioniziruyushchikh izlucheniy na rastitel'nyy i zhivotnyy organizmy (Effect of ionizing radiation on plant and animal organism), 69-80

TOPIC TAGS: biologic mutation, plant genetics, plant growth, radiation plant effect, neutron irradiation, ethylenimine, barley

ABSTRACT: Air-dried barley seeds were irradiated with fast neutrons (dose 300 rad) and then treated with a 0.01% solution of ethylenimine for 4 hr. Treated seeds were sown in Moscow (moderate continental climate) and Khibiny (modified arctic climate). Experimental results showed a different character of development and a different level of variability depending on climatic conditions. When unirradiated seeds were treated with a small dose of ethylenimine, plant development in the first generation was improved in both locations, and no mutagenic effect was noted. A small dose of the chemical was found to have an essentially modifying effect on irradiated seeds, varying with the sowing area. Ethylenimine intensified the radiation effect on Moscow plants,

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2

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ACC NR: AP5024243

but weakened it with respect to the Khibiny plants. Furthermore, the second generation of plants grown in Moscow had a decreased number of chlorophyll mutations (after neutron irradiation and ethylenimine treatment), while the corresponding Khibiny plants had an increased number. Orig. art. has: 8 tables. [JS]

SUB CODE: LS/ SUBM DATE: none/ ORIG REF: 019/ OTH REF: 004

Card 2/2

SHAN'GINA, Z.I.

Effect of 2,4-D on the flow of carbohydrates from tomato leaves. Fiziol.rast. 12 no.6:1039-1044 N-D '65.

(MIRA 18:12)

1. Leningradskiy sel'skokhozyaystvennyy institut. Submitted September 6, 1963.

YELSUKOV, M.P. I SHANI, S.S.

29778

Nov yy etap V Razvitii Kormoproizvodstva. Sov. zootyekhniyz, 1949, No. 5, S. 60-67

SO: LETOPSIS' NO. 40

KADZHAYA, D.I., kand. tekhn. nauk; SHANIDZE, G.N., inzh.

Erecting precast shells without supporting scaffolds. Prom. stroi. 41 no.6:22-24 Je '64. (MIRA 17:9)

[illegible], M. A.

[illegible]E, M. A. -- "An Anatomical Analysis of the Vegetative Organs of the Georgian Representatives of the Genus Iris L. as Material for Understanding the Phylogenesis of the Genus." Published by the Acad Sci Georgian SSR. Acad Sci Georgian SSR. Inst of Botany. Tbilisi, 1955. (Dissertation for the Degree of Candidate in Biological Sciences)

SOURCE Knizhnaya Letopis', No 6 1956

USSR/Cultivated Plants - Subtropical and Tropical. M-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, 11054

Author : Shanidze,
Inst : -
Title : The Red-Meat Orange, Korolek No 1, and the Early Tangerine, Unshiu.

Orig Pub : Izv. Batumskogo botanich. sada, AN GruzSSR, 1956, No 6, 157-159

Abstract : Among the frost-resistant, high-yield, and valuable forms developed by the Batumi Botanical Garden in the severe 1949-1950 winter, the red-meat orange, Korolek No 1, and the seedless tangerine, Unshiu, are deserving of particular attention. Korolek No 1 is especially frost-resistant and capable of hibernation. It survived the severe 1949-1950 winter almost without damage. The trees are low with a compact and evenly developed crown and with densely developed branches. The yields are good and regular.

Card 1/2

CHELIDZE, V.S., inzh.; SHANIDZE, M.I., inzh.

PS-1 shoot cutter. Trakt. i sel'khozmash. 30 no.11:34 N '60.
(MIRA 13:12)
(Sericulture--Equipment and supplies)

SHANIDZE, V.M.

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I.,[deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSKIY, D.M.; AVRORIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S.,(g.Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I.,(g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z. ;RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15: 85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov,Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Polyarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sak pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov); 9. TSentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opytnaya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opytnaya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskoy SSR (for Rusanov, Bochantseva); 44. Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy); 45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Kiyshev, Mushegyan).

(Botanical gardens)

TATISHVILI, I.Ya.; DZHORBENADZE, A.V.; CHUBINIDZE, A.I.; DEKANOSIDZE, T.I.; SHANIDZE, V.S.

Vladimir Kaplanovich Zhgenti; on his 70th birthday. Arkh.pat. no.3:93-94 '62. (MIRA 15:3)
(ZHGENTI, VLADIMIR KAPLANOVICH, 1891-)

[redacted], V.S.; [redacted], A.L.

Review of L.I.Gromov and N.A.Mitiaeva's book "Manual of medicolegal histology." Sud.-med. ekspert 3 no.2:60-61 Ap-Je '60.
(MIRA 18:6)

SHANIKHIN, N.; TIMOFEYEV, N., glavnyy mekhanik.

Continuously improve production. Zhil.-kom.khoz. 4 no.4:20-22 '54.

1. Direktor fabriki-prachechnoy No.4 Leningrada.
(Leningrad--Laundries, Public) (Laundries, Public--Leningrad)

9(2) PHASE I BOOK EXPLOITATION SOV/1231

Shanin, Aleksey Ivanovich

Radiopriyemnyye ustroystva (Radio Receivers) Leningrad, Sudpromgiz, 1958. 387 p. 25,000 copies printed

Scientific Ed.: Telezhko, M.I.; Shaurak, Ye. N.; Tech. Ed.:Levochkina, L.I.

PURPOSE: This book was approved by the USSR Ministry of Higher Education as a textbook for radio and electrical engineering tekhnikums.

COVERAGE: The author describes the components of the RF section of a radio receiver, detection and aperiodic amplification. He discusses in detail questions relating to the theory and design of video amplifiers, IF amplifiers, control circuits in receivers, etc. No personalities are mentioned. There are 27 references, of which 24 are Soviet and 3 English.

TABLE OF CONTENTS:

Card ~~1/9~~

[redacted], A. P.

Zhurin, A. P. "Operative treatment of [illegible] tumors", [illegible] Abst. ed. [illegible], Vol. 1, 1952, [illegible] titles.

SO: U-4111, 17 July 1953, (L-topis 'Zhurnal 'nykh Statey, no. 30, 1952)

[illegible], A. I.

A. I. [illegible] and V. V. Tatarskiy. "On the content of glutathione and ascorbic acid in malarious tumors", Trudy Akad. med. nauk SSSR, Vol. 1, 1940, p. 262-64,-Bibliog: 6 items.

SO: U-4h11, 17 July 1953, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949)

SHANIN, A. F.

Skin - Cancer

Skin cancers. Novosti med., no. 21, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

SHANIN, A.P., professor.

Etiology, clinical aspects and therapy of primary tumors of the liver; from material in foreign periodical literature. Sovr.probl.onk. 5 no.8:3-15 '53. (MLRA 6:8)
(Liver--Tumors)

SHANIN, A.P., professor.

Pancreatic tumors; from data of foreign periodical literature.
Sovr.probl.onk. no.1:3-10 '54. (MLRA 7:4)
(Pancreas--Tumors)

SHANIN, A.P., professor.

Maxillary tumors (review of foreign periodical literature).
Sovr.probl.onk. 6 no.6:3-9 '54. (MLRA 7:7)
(Jaws--Tumors)

SHANIN, A.P., professor

Tumors in newborn infants and children. Sovr.probl.onk. 6 no.12: 3-9 '54. (MLRA 8:5)
(NEOPLASMS, in infant and child)
(INFANT, NEWBORN, diseases, tumors)

SHANIN, A.P., professor; IVANOV, G.G.

Characteristics of gastric secretory-motor functions in precancer and cancer of the stomach. Vop.onk.1 no.1:86-90 '55.

1. Iz Instituta onkologii AMN SSSR (direktor--chl.korr. AMN SSSR prof.A.I.Serebrov, nauchnyy konsul'tant- chl-korr. AN SSSR, deystv.,chl. AMN SSSR, z.d.n., prof. N.N.Petrov) A.P.Shanina--g. Leningrad, ul. Rubinshteyna, 6, kv.25; G.G. Ivanova--g.Leningrad, Aptekarskiy per.,4, kv.7.

(STOMACH, neoplasms,
gastric secretion & motor funct. in prepancer & cancer)
(GASTRIC JUICE,
secretion in precancer & cancer of stomach)

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

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8921

Author : Shanin, A.P.
Inst : -
Title : Problems of Melanogenesis, Clinic and Treatment of Pigmented Tumors (According to Material of Foreign Periodical Literature).

Orig Pub : Sovrem. probl. onkol. Sb. perev. obz. i ref. in period, lit., 1956, No 1, 3-13

Abstract : No abstract.

Card 1/1

SHANIN, A.P.

[Diagnosis and treatment of malignant skin tumors] Diagnostika i lechenie zlokachestvennykh opukholei kozhi. Leningrad, Medgiz, 1957. 165 p. (MLRA 10:4)
(SKIN--CANCER)

SHANIN, A.P., professor

"Diseases preceding cancer, early diagnosis and prevention of cancer" by I.T. Shevchenko. Reviewed by A.P. Shanin. Vop. onk. 3 no.1:118-121 '57 (MLRA 10:4)

(CANCER) (SHEVCHENKO, I.T.)

SHANIN, A.P. (Leningrad, ul. Rubinshteyna, d.6. kv.25)

Role of neuro-endocrine factors in the appearance and development of melanoma [with summary in English]. Vop.onk. 3 no.3:319-323 '57. (MLRA 10:8)

1. Iz Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Serebrov)

(MELANOMA
role of hormones in appearance & develop. (Rus))
(HORMONES
role in melanoma appearance & develop. (Rus))

EXCERPTA MEDICA Sec 13 Vol 13/8 Dermatology Aug 59

2131. LATE RESULTS IN THE TREATMENT OF MELANOMA OF THE SKIN (Russian text) - Shanin A. P. Inst. of Oncol., AMS, Leningrad - VOPR. ONKOL. 1958, 4/5 (573-578) Tables 4

During 1926-1952, a total of 254 patients with melanoma of the skin were treated. 217 cases were treated radically and 37 with palliative methods. In 121 cases surgical excision was used, in 56 cases electrosurgical methods, and in 40 cases combined methods (irradiation and surgery). Follow-up was done in 213 cases. The 5-year survival was 36.4% for patients treated surgically, 23.2% after electrosurgery, and 25% after combined treatment. The combined method is regarded the treatment of choice, consisting in irradiation according to Chaoul's method, followed by excision of the tumour remnants. It is advised to remove regional lymph nodes even if they are not enlarged. In the presence of obvious metastases preliminary deep roentgen therapy of the regional lymph nodes (up to 7,000-8,000 r.) followed by excision is strongly advocated. (V, 13, 16)

SHANIN, Aleksandr Protasovich

[Pigmented tumors] Pigmentnye opukholi. Leningrad, Medgiz, 1959. 257 p. (MIRA 13:8)
(TUMORS)

SHANIN, A.P.; DEMIN, V.N.; CHAKLIN, A.V.

"Tumors; diagnosis, treatment, and prevention" by L.M. Nisnevich. Reviewed by A.P. Shanin, V.N. Demin, A.V. Chaklin. Vop.onk. 5 no.7:115-117 '59. (MIRA 12:12)
(TUMORS) (NISNEVICH, L.M.)

SHANIN, A.P., prof.

Clinical picture and treatment of melanoma of the skin. Vest. derm. i ven. 33 no.1:3-10 Ja-F '59. (MIRA 12:3)

1. Iz Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).

(SKIN NEOPLASMS
melanoma, clin. picture & ther. (Rus))
(MALANOMA
skin, clin. picture & ther. (Rus))

SHANIN, A.P., prof.

Orbital melanomas. Trudy Inst. onk. AMN SSSR no.3:25-31 '60
(MIRA 16:12)

1. Zamestitel' direktor Instituta onkologii AMN SSSR po nauchnoy chasti.

SHANIN, A.P., prof.; UGLOVA, V.M., kand.med.nauk, mladshiy nauchnyy sotrudnik

Report on the therapeutic work of the Institute of Oncology of the Academy of Medical Sciences of the U.S.S.R. for 1958. Trudy Inst. onk. AMN SSSR no.3:243-263 '60 (MIRA 16:12)

1. Zamestitel' direktora po nauchnoy chasti Instituta onkologii AMN SSSR (for Shanin).

SHANIN, Aleksandr Protasovich; KOROVIN, A.S., red.; LEBEDEVA, Z.V., tekhn. red.; BUGROVA, T.I., tekhn. red.

[Retroperitoneal tumors] Zabriushinnye opukholi. Leningrad, Medgiz, 1962. 175 p. (MIRA 15:7)
(RETROPERITONEAL SPACE—TUMORS)

BABCHIN, I.S., prof.; BABANOVA, A.G., doktor med. nauk; BLOKHIN, N.N., prof.; BONDARCHUK, A.V., prof.; GAL'PERIN, M.D., prof.; GOL'DSHTEYN, L.M., prof.[deceased]; DYMARSKIY, L.Yu., kand. med. nauk; KARPOV, N.A., prof.; KOYRO, M.A., nauchn. sotr.; LARIONOV, L.F., prof.; LITVINOVA, Ye.V., kand. med. nauk; MEL'NIKOV, R.A., kand. med. nauk; NECHAYEVA, T.D., doktor med. nauk; PETROV, Nikolay Nikolayevich, prof.; PETROV, Yu.V., kand. med.nauk; RAKOV, A.I., prof.; ROGOVENKO, S.S., kand. med. nauk; SENDUL'SKIY, I.Ya., prof.; SEREBROV, A.I., prof.; SMIRNOVA, I.N., kand. med. nauk; TAL'MAN, I.M., prof.; TOBILEVICH, V.P., prof.; TRUKHALEV, A.I., kand. med. nauk; KHOLDIN, Semen Abramovich, prof.; CHEKHARINA, Ye.A., kand. med. nauk; CHECHULIN, A.S., kand. med. nauk; SHAAK, V.A., prof.[deceased]; SHANIN, A.P., prof.; SHAPIRO, I.N., prof.[deceased]; SHEMYAKINA, T.V., kand. med. nauk; SHERMAN, S.I., prof.; ABRAKOV, L.V., red.; LEBEDEVA, Z.V., tekhn. red.

[Malignant tumors]Zlokachestvennye opukholi; klinicheskoe rukovodstvo. Leningrad, Medgiz. Vol.3. Pts.1-2. 1962. (MIRA 16:5)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrov, Serebrov). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kholdin).

(CANCER)

SHANIN, A.I.

Diagnosis and treatment of malignant tumors of the skin; present status of the problem and means of its investigation. Vop. onk. 8 no.9:45-52 '62. (MIRA 17:6)

1. Institut onkologii AMN SSSR (dir.- deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtora: Leningrad, P-129, 2-ya Berezovaya alleya, 3, Institut onkologii AMN SSSR.

ABRAKOV, L.V.; BARANOVA, A.G.; DYMARSKIY, L.Yu.; DYAD'KOVA, A M.; RABKOVA, L.M.; RAKOV, A.I.; SEREBROV, A.I.; SMIRNOVA, I.N.; KHOLDIN, S.A.; TSEL', Ye.A.; CHEKHARINA, Ye.A.; SHABASHOVA, N.Ya.; SHANIN, A.P.

Reviews. Vop. onk. 11 no.7:116-126 '65. (MIRA 18:9)

ARENSKIY, A.V.

GLADKIY, M.I.[deceased]; SHANIN, G.A.; IODKO, Ye.K.; MANAYENKOV, S.D.; MIKHAYLOV, E.A.; GRIBOVA, Ye.N.; LUGOVSKIY, P.P.; KULESHOV, S.M.; SHATOV, A.I.; SHNYREVA, N.N.; ISHKOVA, V.M.; LYKOV, A.I.; TYULYAYEV, A.N., otv. red.; SIDOROVA, T.S., red.; SHEFER, G.I., tekhn. red.

[Determining the economic efficiency of new machinery in the communication system] Opredelenie ekonomicheskoi effektivnosti novoi tekhniki v khoziaistve sviazi; informatsionnyi sbornik. Moskva, Sviaz'izdat, 1962. 174 p. (MIRA 16:3)
(Communication and traffic--Technological innovations)

SHANIN, G. G.

PA 19T93

USSR/Telegraphy - Maintenance and Repair Oct 1946
Telegraphy, Two-tone

"Innovations of the Stavropol' Telegraph Station," G. G. Shanin, 2 pp

"Vestnik Svyazi - Elektro Svyaz'" No 10 (79)

Discusses some of the innovations adopted by this station to overcome the difficulties resulting from damage inflicted by the Ge.mans. Recommends that some of these can beused to advantage by some of the other stations. Discusses the restoration of the Bodo receiver selector, restoration of the spacing disc of the Bodo receiver, system of operation of the ST-35 apparatus along tonal telegraph lines with. 19T93

19T93

USSR/Telegraphy - Maintenance and Repair Oct 1946
Telegraphy, Two-tone (contd)

out the adaption of a relay, and repair of the inkwell of the Morse apparatus.

SHANIN, I

BULGARIA/Cultivated Plants. Grains.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20226.

Author : T. Mitkov, Jordan Shanin
Inst : Not given.
Title : Several Problems in the Elite Seed Growing of Grain Crops. (O nekotorykh voprosakh elitnogo semenovodstva zernovykh kul'tur v Bolgarii).

Orig Pub: Selskostop. mis"l, 1956, 1, No. 8, 474-480.

Abstract: The introduction of new methods of seed growing is treated. Tests at the national institutes in Sofia and Knezh have established that not all varieties increase their yield through intervariety crossing.

Card : 1/1

SHAMIN, I.

New kinds of sunflowers. p. 16.
(Kooperatvino Zemedelie, Vol. (12), no. 2, Feb. 1957. Sofiia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

S/169/61/000/008/002/053
A006/A101

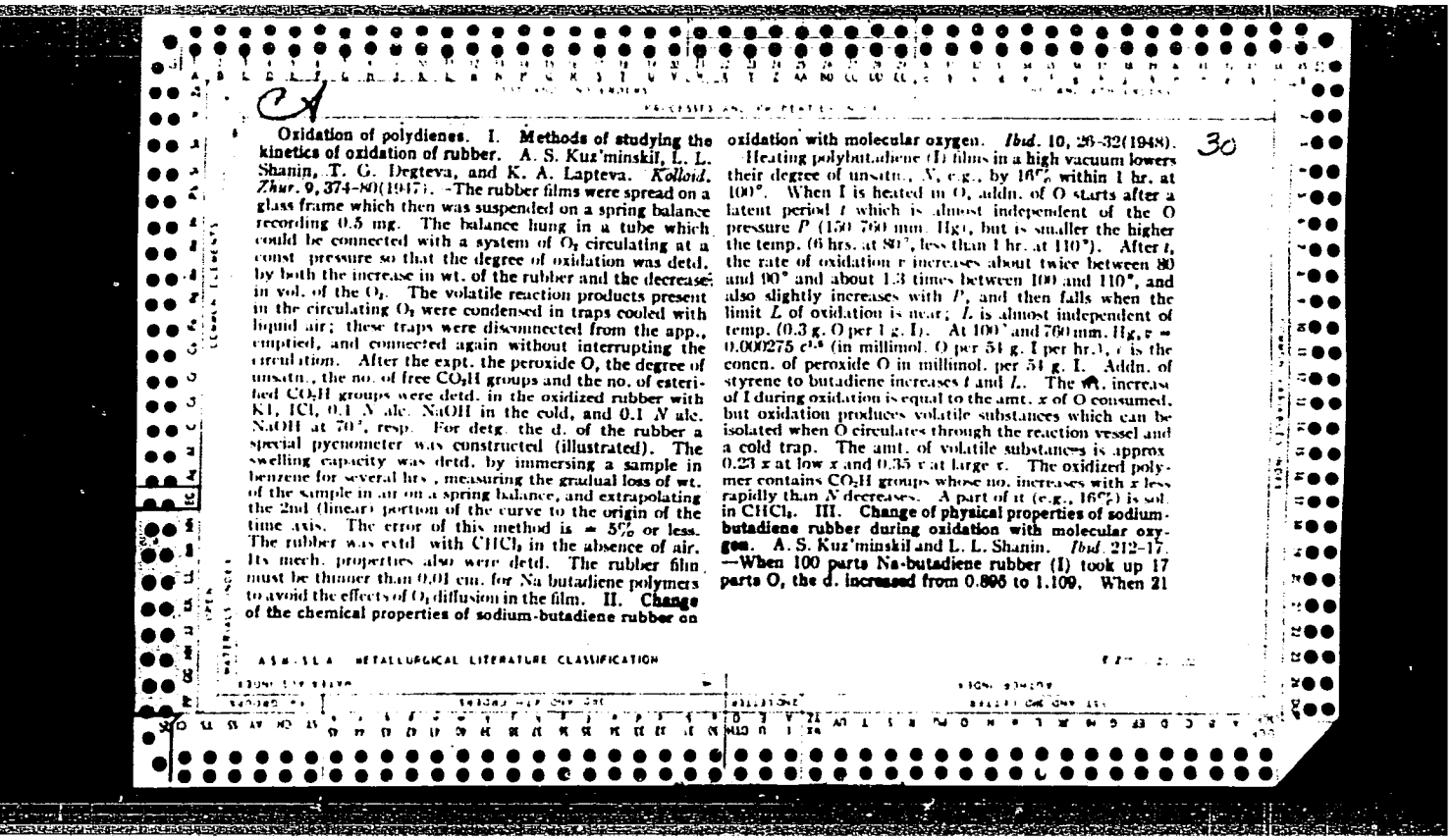
AUTHORS: Shanin, L., Dyadin, N. N.

TITLE: Means of raising the accuracy of determining radiogenic argon by the method of isotopic dilution

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 4, abstract 8A36 ("Tr. 6-y sessii Komis. po opredeleniyu absolyutn. vozrasta geol. formatsiy", 1957, Moscow, AN SSSR, 1960, 244-252)

TEXT: At a high accuracy of determining K (of the order of ± 1%), the main source of errors in evaluating the age by the K-argon method, is determining the radiogenic argon content. When determining argon by the method of isotopic dilution the basic error is that of measuring the argon ^{36}/argon^{40} ratio. The authors, using argon enriched with up to 5 - 6% argon^{36} isotope, and operating at high emission currents on the mass-spectrometer electrometer, reduced the magnitude of error down to ±0.3 - 0.5%. This makes it possible to obtain ±1% accuracy when measuring radiogenic argon. To reduce the error in the portioning of standard argon down to ± 0.25 - 0.30%, the authors propose to use a special portioning device instead of the Mac-Leod manometer. To reduce the consumption

Card 1/2



CA

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Oxidation of polydienes. I. Methods of studying the kinetics of oxidation of rubber. A. S. Kuz'minskiĭ, L. L. Shanin, T. G. Degteva, and K. A. Lapteva. *Kolloid. Zhur.* 9, 374–80(1947). —The rubber films were spread on a glass frame which then was suspended on a spring balance recording 0.5 mg. The balance hung in a tube which could be connected with a system of O_2 circulating at a const. pressure so that the degree of oxidation was detd. by both the increase in wt. of the rubber and the decrease in vol. of the O_2. The volatile reaction products present in the circulating O_2 were condensed in traps cooled with liquid air; these traps were disconnected from the app., emptied, and connected again without interrupting the circulation. After the expt. the peroxide O, the degree of unsatn., the no. of free CO_2H groups and the no. of esterified CO_2H groups were detd. in the oxidized rubber with KI, ICl, 0.1 *N* alc. NaOH in the cold, and 0.1 *N* alc. NaOH at 70°, resp. For detg. the d. of the rubber a special pycnometer was constructed (illustrated). The swelling capacity was detd. by immersing a sample in benzene for several hrs., measuring the gradual loss of wt. of the sample in air on a spring balance, and extrapolating the 2nd (linear) portion of the curve to the origin of the time axis. The error of this method is ≈ 5% or less. The rubber was extd. with $CHCl_3$ in the absence of air. Its mech. properties also were detd. The rubber film must be thinner than 0.01 cm. for Na butadiene polymers to avoid the effects of O_2 diffusion in the film. **II. Change of the chemical properties of sodium-butadiene rubber on oxidation with molecular oxygen.** *Ibid.* 10, 26–32(1948).

Heating polybutadiene (I) films in a high vacuum lowers their degree of unsatn., *N*, e.g., by 16% within 1 hr. at 100°. When I is heated in O_2, addn. of O starts after a latent period t which is almost independent of the O pressure P (150–760 mm. Hg), but is smaller the higher the temp. (6 hrs. at 80°, less than 1 hr. at 110°). After t, the rate of oxidation v increases about twice between 80 and 90° and about 1.3 times between 100 and 110°, and also slightly increases with P, and then falls when the limit L of oxidation is near; L is almost independent of temp. (0.3 g. O per 1 g. I). At 100° and 760 mm. Hg, $v = 0.000275\ c^{1.5}$ (in millimol. O per 54 g. I per hr.), c is the concn. of peroxide O in millimol. per 54 g. I. Addn. of styrene to butadiene increases t and L. The wt. increase of I during oxidation is equal to the amt. x of O consumed, but oxidation produces volatile substances which can be isolated when O circulates through the reaction vessel and a cold trap. The amt. of volatile substances is approx. 0.23 x at low x and 0.35 x at large x. The oxidized polymer contains CO_2H groups whose no. increases with x less rapidly than N decreases. A part of it (e.g., 16%) is sol. in $CHCl_3$. **III. Change of physical properties of sodium-butadiene rubber during oxidation with molecular oxygen.** A. S. Kuz'minskiĭ and L. L. Shanin. *Ibid.* 212–17. —When 100 parts Na-butadiene rubber (I) took up 17 parts O, the d. increased from 0.895 to 1.109. When 21

ASM-TLA METALLURGICAL LITERATURE CLASSIFICATION

Rubber Abstracts

Crude Natural Rubber

Oxidation of polydienes. II. Changes in chemical properties of sodium butadiene rubber during oxidation with molecular oxygen. A. S. KUZMINSKY, I. L. SHANIN, T. G. DEGTEVA, and K. A. LAPTEVA (Compt. rend. Acad. Sci. U.S.S.R., 1948, **10**, 26–32; Rubber Chem. Abs., 1949, **43**, 130) The thermal oxidation of sodium butadiene polymer and of copolymers of butadiene and styrene at different pressures and temperatures proceeds very irregularly. Even at the beginning there is observed the formation of volatile products and carboxylic acids; they distil completely in a vacuum of 10^{-4} mm. of mercury at 50–60° without observable decomposition. Oxidation of copolymers of butadiene and styrene in different proportions shows that under similar conditions the inductive period is longer the smaller is the amount of double bond character. In all cases, temperature sharply affects the inductive period and maximum oxidation velocity, but does not affect appreciably the total oxygen consumed. It is shown that the heating of sodium butadiene rubber in a high vacuum at 100° leads to a fall in the unsaturation which seems to be the result of structural change. An empirical relation is given relating the velocity of oxidation with the concentration of peroxides.

3S2D2L3233

1949

SHANIN, L. L.

PA 78T7

USSR/Chemistry - Rubber, Oxidation of
Chemistry - Rubber, Properties of

May/Jun 1948

"Research in the Field of the Oxidation of Polydienes III, Variation in the Physical Properties of Na-Butadiene Rubber During Oxidation by Molecular Oxygen," A. S. Kuz'minskiy, L. L. Shanin, Moscow Inst of Fine Chem Tech imeni M. V. Lomonosov; Phys. Chem Inst iemni L. Ya. Karpov, Moscow, 6 pp

"Kolloid Zhur" Vol X, No 3

Experimental data illustrate the changes of the mechanical and colloidochemical properties of Na-butadiene rubber during oxidation. Submitted 5 Feb 1947.

78T7

30

CM

Diffusion of oxygen and oxidation of rubber in the presence of phenyl 2 naphthylamine A. S. Kuz'minskii, L. L. Shamm, and N. S. Ledniev (Nauch Issledovatel. Inst. Rezinovoi Prom. MKhP, S.S.S.R.). *Doklady Akad. Nauk S.S.S.R.* 79, 407-7(1951).—Under const. O_2 pressure p_0, the rate of oxidation (measured by the rate of consumption of the antioxidant phenyl-2-naphthylamine) of films of Na butadiene rubber 30-10 μ thick is const. With varying p_0 (10-760 mm.), the rate w of the inhibited oxidation increases approx. proportionally to the square root of the concn. c of dissolved O_2, $w = k_0\sqrt{c}$. The rate of oxidation $w = k_0\sqrt{c}$ and the diffusion coeff. D of the dissolved O_2 are related by $D(\partial^2c/\partial x^2) = (\partial c/\partial t) + w$, where x = distance from the middle of the film. In the case of inhibited oxidation, D can be considered const. Solution of the above partial differential equation is difficult because the right-hand member is not linear. In its stead, the linear equation $D(\partial^2c/\partial x^2) = (\partial c/\partial t) + k_0$, is solved, with k_0 detd. from the condition that the algebraic sum of the deviations of the approx. rate k_0c from the actual rate $k_0\sqrt{c}$ in the concn. range from zero to c should be zero. This gives, at 120°, $k_0 = 8.15 \times 10^{-6}$ sec.$^{-1}$. Solution of the linear equation gives c as a function of x and t. In a film 1 cm. thick, with both sides exposed to oxidation, stationary distribution of O_2 over the thickness is established, at 120°, in 14 hrs., and in a film 0.1 cm. thick in 10-15 min. Practically, on account of the actual dependence of the rate on $c^{1/2}$ (rather than on c), stationary distribution is attained somewhat later. It can, however, be concluded that all-sided oxidation of films no thicker than 1.0 cm. takes

place practically under conditions of stationary distribution of the concn. of O_2. Under these conditions, $P(O_2) = k_1 N^2 c_1$, and $v = \frac{1}{2} N 3D k_1 \int_0^{\infty} dx \, N^2 c^2 = c_1^2 s$, where c_1 = concn. of O_2 in the middle and c_s at the surface of the film. Solution of the elliptic integral permits construction of the depth distribution of O_2 at different stages of the oxidation. In a 1-cm. foil, the rate of oxidation in the middle of the layer is about 84% of the rate at the surface, i.e. the oxidation is very nearly uniform over the whole thickness. This result is valid only for truly inhibited oxidation, in the absence of self-acceleration through chain reactions, in particular in the absence of such activation through deformation.

Thom

[redacted], and [redacted], T.

"Luminescence Spectral Analysis of Dagestan Crude Oils" Dokl. AN Az SSR, 10, No. 11, 1954, 751-756

Luminescence spectra of 50 Dagestan oils were obtained by photographic method using mercury-quartz lamp SVD-1,000 watt for excitation. The blackening difference curves $\frac{\Delta S}{f(\lambda)}$ were plotted for all spectra taking the oil Tenair I as standard. All tested oils were divided into three groups according to $\frac{\Delta S}{f(\lambda)}$: the intensely glowing oils (origin Duzlak), medium glowing oils (Izberg), and weakly glowing oils (Ternair and Makhachkala). (RZhFiz,No 11 1955)

USSR/Chemistry - Physical chemistry

Card 1/1 Pub. 22 - 44/63

Authors : Shanin, L. L.

Title : Diffusion and solubility of oxygen and hydrogen in sodium-butadiene rubber during different stages of oxidation of the latter

Periodical : Dol. AN SSR 99/6, 1053-1056, Dec 21, 1954

Abstract : The diffusion and solubility of oxygen and hydrogen was investigated in thin sodium-butadiene rubber layers at temperatures of 40; 60; 80 and 100°. The solubility of hydrogen in sodium-butadiene rubber during oxidation of the latter was found unchanged and the solubility of oxygen changes somewhat; its solubility was found similar to that of nitrogen in natural rubber vulcanizates with different sulfur content. The effect of increased oxygen content on the diffusion coefficients of oxygen and hydrogen is similar to the effect of increased S-content on the diffusion coefficient in natural rubber vulcanizates. Six references: 2-USA; 1-English and 3-USSR (1920-1951). Tables; graphs.

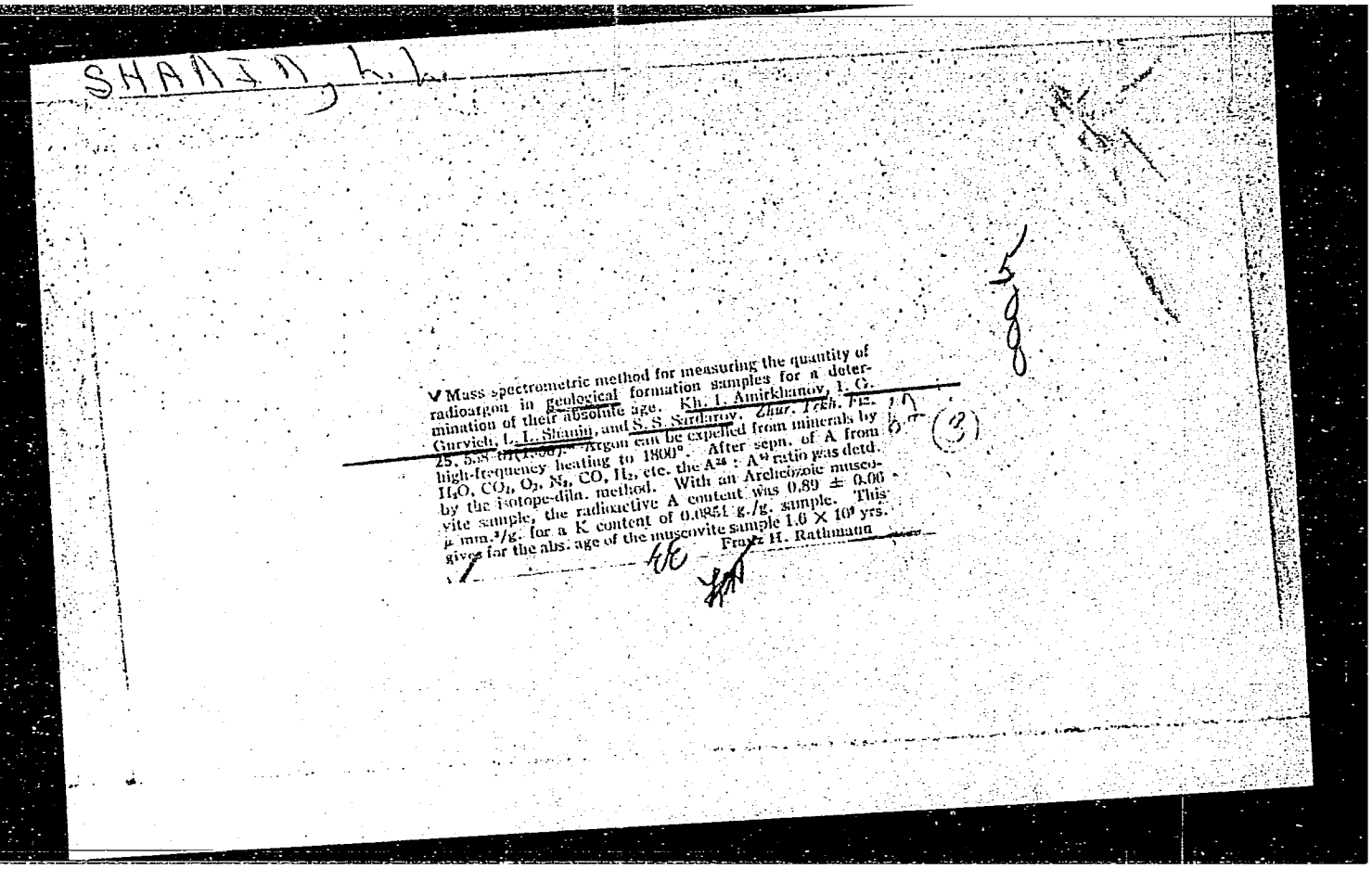
Institution : Academy of Sciences USSR, Dagestan Branch.

Presented by : Academician P. A. Rebinder, June 24, 1954

SHANIN, L.L.

Apparatus for studying the kinetics of processes accompanied by changes in gas volume or pressure. Zav.lab.21 no.10:1260-1261 '55. (MLRA 9:1)

1. Dagestanskiy filial Akademii nauk SSSR.
(Chemical apparatus) (Gases)



SHAIN, L.

Mass spectrometric method for measuring the quantity of radioargon in geological formation samples for a determination of their absolute age. Kh. I. Amirkhanov, I. G. Gurvich, L. L. Shanin, and S. S. Sardarov. *Zhur. Tekh. Fiz.* 25, 585-6(1955).—Argon can be expelled from minerals by high-frequency heating to 1800°. After sepn. of A from H_2O, CO_2, O_2, N_2, CO, H_2, etc. the A^{38} : A^{40} ratio was detd. by the isotope-dilu. method. With an Archeozoic muscovite sample, the radioactive A content was 0.89 ± 0.00 μ mm.^{3}/g. for a K content of 0.0851 g./g. sample. This gives for the abs. age of the muscovite sample 1.6×10^9 yrs.

Franz H. Rathmann

AYVAZOV, B.V., kandidat khimicheskikh nauk; ROZDESTVENSKIY, V.P., kandidat khimicheskikh nauk; SHANIN, I.I., kandidat khimicheskikh nauk; SHUMSKIY, I.N., kandidat tekhnicheskikh nauk; MOSEYEVA, Z.V., mladshiy nauchnyy sotrudnik

[Safety instructions and fire prevention measures for members of institutes, departments and workshops] Instruktsiia po tekhnike bezopasnosti i protivopozharnym meropriiatiiam dlia sotrudnikov institutov, otdelov i masterskikh. Ufa, 1957. 70 p. (MLRA 10:8)

1. Akademiya nauk SSSR. Bashkirskiy filial, Ufa.
(Fire prevention) (Accidents--Prevention)

SHANIN, L. L.

Shanin, L. L. - Ways to Improve the Accuracy of Determining Radiogen Argon by Means of Isotopic Dissolution.

The Sixth Session of the Committee for Determining the Absolute Age of Geologic Formations at the Department of Geologic-Geographical Sciences (OGGN) of the USSR Academy of Sciences at Sverdlovsk in May 1957

AYVAZOV, B.R., red.; MASHKINA, A.V., red.; OBOLENTSEV, R.D., red.; ROZHDESTVENSKIY, V.P., red.; SHANIN, L.L., red.; SUDARKINA, K.I., red.; RAKHIMOV, R.Sh., tekhn. red.

[Chemistry of sulfur organic compounds in petroleum and petroleum products; papers of the second scientific session] Khimiia sera-organicheskikh soedinenii, soderzhashchikhsia v neftiakh i nefteproduktakh; materialy II nauchnoi sessii. Ufa, Vol. 1., 1958. 228 p.

1. Akademiya nauk SSSR. Bashkirskiy filial, Ufa.
(Sulfur organic compounds)
(Petroleum)
(Petroleum products)

11(4) SOV/2075

Akademiya nauk SSSR. Bashkirskiy filial, Ufa

Khimiya seroorganicheskikh soyedineniy, sodershashchikhsya v nefteyakh i nefteproduktakh; [materialy III nauchnoy sessii] (Chemistry of Sulfur Containing Compounds Contained in Petroleum and Petroleum Products; [Papers of the Organic Compounds Contained in Petroleum and Petroleum Products; [Papers of the Third Scientific Session]) Moscow, Izd-vo AN SSSR, 1959. 376 p. 2,000 copies printed. Errata slip inserted.

Editorial Board: R.D. Obolentsev (Resp. Ed.) Doctor of Chemical Sciences; G.D. Gal'pern, Doctor of Chemical Sciences; Ya. B. Chertkov, Doctor of Technical Sciences; V.V. Fanov, Candidate of Technical Sciences; and V.P. Morduchowitsch, Candidate of Chemical Sciences; Ed. of Publishing House: I.I. Bruskov; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for chemists, chemical engineers, and technicians specializing in the chemistry of petroleum.

COVERAGE: The book is a collection of papers presented at the Third Scientific Session on the Chemistry of Organic Sulfur- and Nitrogen Compounds Contained in Petroleum and Petroleum Products. The scientific session was held in Ufa, June 3-8, 1957. The book consists of six sections: 1) Synthesis, characterization, and analysis of organic sulfur compounds; 2) Separation, composition of organic sulfur compounds contained in petroleum and petroleum products; 3) Transformation of sulfur-containing petroleum products; 4) Corrosive properties of and tar formation in sulfur compounds and hydrogen sulfide; 5) Uses of organic sulfur compounds, No personalities are mentioned. There are 315 references, of which 179 are Soviet, 118 English, 5 French, 12 German, and 1 Czech.

TABLE OF CONTENTS

Card 3/10

SLEPNEV, Yu.S.; SHAMIN, L.L.

Absolute age of rare-metal pegmatites from the Eastern Sayans. Geokhimiia no.1:56-59 '61. (MIRA 14:3)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements, Academy of Sciences, U.S.S.R., Moscow.
(Sayan Mountains--Pegmatites)
(Geological time)

KARPINSKAYA, T.B.; OSTROVSKIY, I.A.; SHANIN, L.L.

Artificial injection of argon into mica at high pressure and temperatures. Izv. AN SSSR. Ser.geol. 26 no.8:99-103 Ag '61. (MIRA 14:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.
(Argon) (Mica)

ADANAS'YEV, G.D.; BORISEVICH, I.V.; SHANIN, L.L.

Geological interpretations of radiological data in connection with absolute age determinations. Izv. AN SSSR. Ser.geol. 27 no.1:26-40 Ja '62. (MIRA 15:1)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

(Geological time)

AFANASIEV, G.D. [Afanas'yev, G.D.]; BORISEVICI, I.V. [Borisevich, I.V.];
SANIN, L.L. [Shanin, L.L.]

Geologic interpretation of the radiological data for the determination of the absolute age of rocks. Analele geol geogr 14 no.4:56-74 O-D '62.

AFANAS'YEV, G.D.; BORISEVICH, I.V.; SHANIN, L.L.; SHEINA, I.P.

Cases of Ar and K nonequilibrium relations in biotites in connection with the creation of geological time scale in the absolute chronology. Izv.AN SSSR.Ser.geol. 28 no.1:19-45 Ja '63. (MIRA 16:2)

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Remarks on cardinal numbers containing results essential in the proofs of topological theorems discussed in the papers reviewed below. *E. Hewitt* (Bryn Mawr, Pa.).

Source: Mathematical Reviews, Vol. 8 No. 5

Shanin, N. A.

Shanin, N. A. On intersection of open subsets in the product of topological spaces. C. R. (Doklady) Acad. Sci. URSS (N.S.) 53, 499–501 (1946).

The author is concerned with certain properties of Cartesian products of topological spaces. He defines the kernel $\mathfrak{A}^*$ of a family $\mathfrak{A}$ of subsets of a given set A as a subfamily of $\mathfrak{A}$ having the same cardinal number as $\mathfrak{A}$ and having total intersection nonvoid. A cardinal number is called a caliber of a family M of subsets of a set A if every subfamily of M having cardinal number $\mathfrak{m}$ possesses a kernel. A cardinal number $\mathfrak{m}$ is called a caliber of the topological space X if $\mathfrak{m}$ is a caliber of the family of all nonvoid open subsets of X. Subsidiary concepts are also defined. A number of theorems are stated which exhibit relations among the calibers of factor spaces, the caliber of a Cartesian product of spaces and the cardinal numbers of dense subsets of the factor spaces. A typical theorem is the following. If $\mathfrak{m}$ is a regular cardinal number greater than $\aleph_0$ such that $\mathfrak{m}$ is a caliber of all the spaces X_λ, where $\{X_\lambda\}$, $\lambda \epsilon A$, is a nonvoid family of topological spaces, then $\mathfrak{m}$ is a caliber of the Cartesian product PX_λ, $\lambda \epsilon A$. No proofs are given.

E. Hewitt (Bryn Mawr, Pa.).

Source: Mathematical Reviews, Vol 8 No. 6

Shanin, N.A.

Shanin, N. A. On the product of topological spaces. C. R. (Doklady) Acad. Sci. URSS (N.S.) 53, 591–593 (1946).

Continuation and extension of methods and results described in the two papers reviewed above. The author here considers the cardinal numbers of families of open subsets of a topological space which are completely ordered by set-inclusion. He announces relations between these cardinal numbers and calibers of the space and states simple results relating these cardinal numbers with cardinal numbers of dense subsets of the space. He next defines (among others) the property (λ) of a topological space: a topological space X has the property (λ) if and only if every denumerable family of dense open subsets of X completely ordered by set-inclusion has nonvoid intersection. It is stated that the property (λ) and other similar properties are preserved under the formation of Cartesian products (with suitable restrictions). The author finally states three theorems concerning the possible cardinal numbers of families of pairwise disjoint open subsets of spaces and Cartesian products of spaces. No proofs are given. *E. Hewitt* (Bryn Mawr, Pa.).

Source: Mathematical Reviews, Vol. 8 No. 6

SHANIN, N. A.

O diadicheskikh bikompaktakh. DAN, 53 (1946), 785-788.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Markushevich, A.I.,
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*Šanin, N. A. On the product of topological spaces. Trudy Mat. Inst. Steklov. 24, 112 pp. (1948). (Russian)

A calibre of a space is a cardinal number $m > 1$, infinite in all cases of interest, such that every family of power m of open subsets of the space has a subfamily of like power whose intersection is not empty. Every cardinal which exceeds the power of the space itself is trivially a calibre. The study is principally concerned with the calibres of a direct product of a finite or infinite number of spaces of assigned calibres. A motivation of this study is the theorem of Szpilrajn [C. R. (Doklady) Acad. Sci. URSS (N.S.) 31, 525–527 (1941); these Rev. 3, 57] to the effect that every uncountable collection of open subsets of a product of spaces, each of which has a countable base, has at least one pair of intersecting sets. Concepts related to that of calibre are applied to a study of the diadic bicompacta: these are continuous images of a product of compacta.

L. Zippin (Flushing, N. Y.).

Source: Mathematical Reviews, Vol 10 No. 5