"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

MOVIKOVA, N.G.

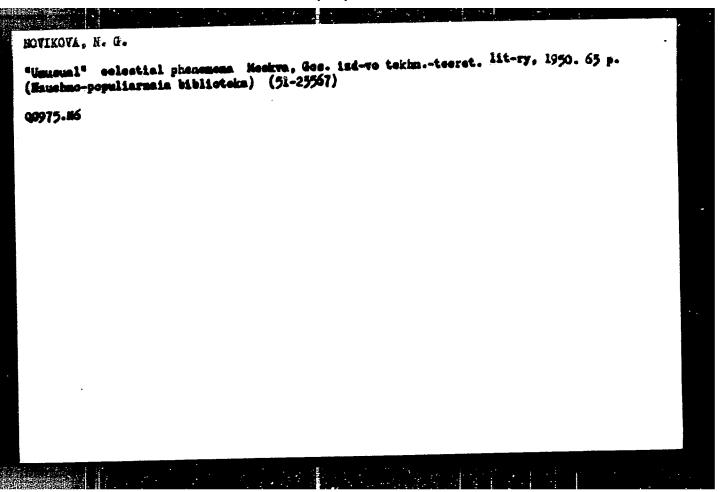
NOVIKOVA, N.G. "Xeromorphism of the Top Leaves of Leaves of Wend Plants and its evolutionary Significance." Moscow State U inemi M.V. Lomonosov. Moscow, 1956. (Dissertation for the Degree of Candidate in Piological Science)

So: Knizhnaya Letopis', No. 18, 1956,

PAVLOVA, N.F.; DEGTYAREV, K.A.; NOVIKOVA, N.G.

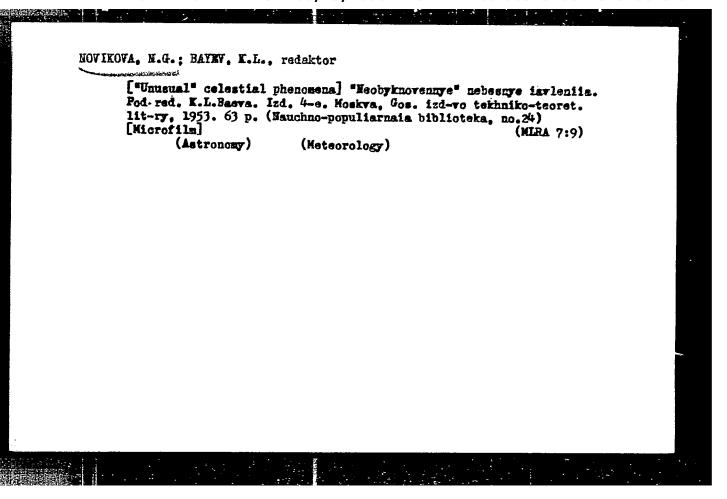
Testing of coke produced in high-capacity ovens. Koks i khim. no.11: 25-28 '63. (NIRA 16:12)

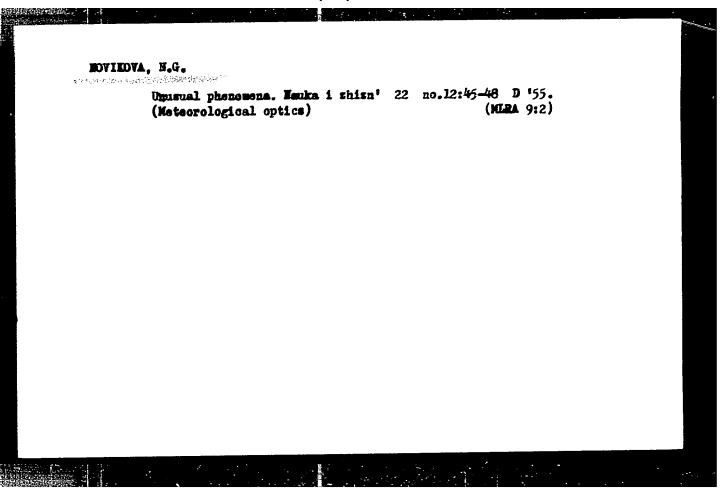
1. Yasinovskiy koksokhimicheskiy zavod.



HOVIKOVA, H.G.; BAYEV, K.L., professor, redsktor; MRIENTSEV, V.A., re-

["Unusual" phenomena in the skies] "Neobyknovennye" nebesnye
iavleniia. Pod red. K.L.Bayeva. Isd. 2. Moskva, Gos. isd-vo tekhniko-teo.et. lit-ry, 1951. 63 p. (Hauchno-populiarnaia biblioteka,
no.24) [Microfilm] (MLRA 7:11)
(Meteorology)





LIPIN, A.I.; NOVIKOVA, N.I., inzh., red.

[Equipment for applying metallic and paint coatings]
Oborudovanie dlia naneseniia metallicheskikh i lakokrasochnykh pokrytii. Moskva, 1963. 70 p. (Materialy
zavodskogo opyta, no.3) (MIRA 17:4)

l. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut nauchnoy i tekhnicheskoy informatsii.

ESTERKIN, M.A., inzh.; NOVIKOVA, N.I., inzh., red.

[Mechanisms and equipment for the collection and processing of metal chips] Mekhanizmy i oborudovanie dlia svora i pererabotki metallicheskoi struzhki. Moskva, 1963. 82 p. (Mekhanizatsiia i avtomatizatsiia tekhnologicheskikh protsessov; materialy zavodskogo opyta, no.4)

(MIRA 17:9)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut nauchnoy i tekhnicheskoy informatsii.

NOVIKOVA, N.I.

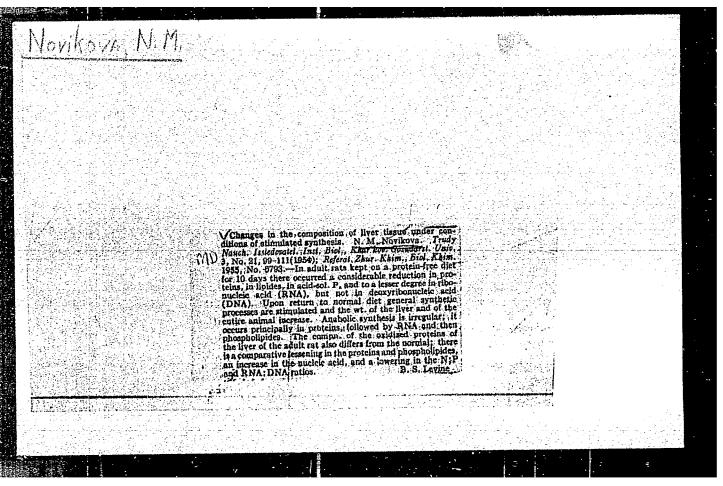
Use of oxygen baths in the compound canatorium and health resort treatment of coronary stenosis with manifestations of stenocardia. Vop.kur., fizioter. i lech. fiz. kul't 30 no.5:431-434 S.0 65. (MIRA 18:12)

1. Terapevticheskaya klinika (zav. - prof. S.R.Tatevosov) Instituta meditsinskoy klimatologii i klimatoterapii imeni Sechenova (dir. B.V.Bogutskiy).

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

TANDET SERVE SERVES SER	<u>F</u>			
NOVIKOVA, H.M.				·
	요즘 이 경우 사람들은 경우 이 이 경우 이 경우는 그 같아 같아요. 그는 것 공항 공연 경우를 경우하다고 하는 것이 되는 것이 되었다.			
				<u> </u>
	The chemical nature of the second	\sim		
	The chemical nature of the so-called structural protein. N. Bulankin, N. M. Novikova, and E. V. Parina M. Gor'kil State Univ. Kharking)			
	chem compa of in Russian, 153-6)(1953).—To det	the	jan Linguis (1984)	
	tions contact his sta-	171G_		
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	B. Gutoff			
5.50% of			<u>용하는 소리는 경험하고 있는데 하이 그 것 같아요. 1년</u> -	
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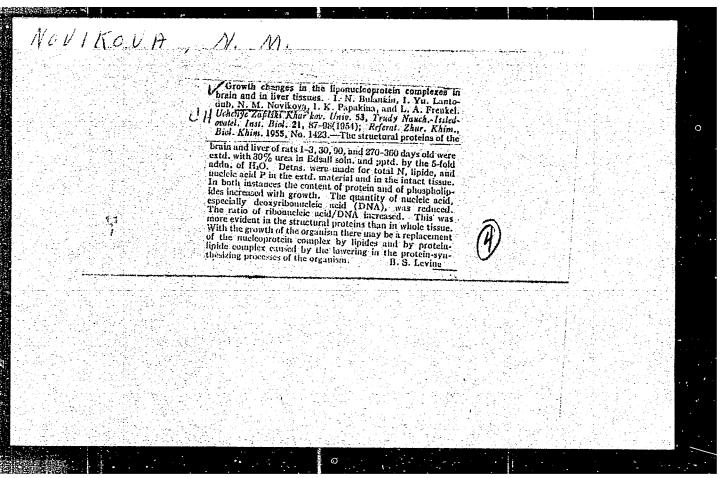


BULANKIN, I.N.; NOVIKOVA, N.M.; PARINA, Yo.V.

Chemical nature of so-called structural proteins. Uch.zap. KHGU 53:73-80 '54. (MIRA 11:11)

1. Kafedra biokhimii Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo. (PROTEINS)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8



N.H.

Changes in the composition of liver tissues under conditions of "excited" synthesis. Uch. Eap. KHRU 53:99-111 54. (MIRA 11:11)

1. Kafedra biokhimii Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo. (PROTEIN METABOLISM) (LIVER)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

HERE INDUINOUNT, M. PH.

USSR/Human and Animal Physiology - Liver.

R-7

Abs Jour

: Referat Zhur - Biologiya, No 16, 1957, 70800

Author

: Movikova, N.M.

Title

: Changes in Tissue Composition in the Liver of Young

Animals in Regenerative and "Excited" Syntheses.

Orig Pub

: Uch. Zap. Kharkovsk. un-ta, 1956, 68, 21-23

Abstract

: In rats reaching at the end of the test, 2 month of age, 2/3 of the liver was removed. Phosphoric fractions and N was determined in the regenerating liver after 2, 4 and 6 days. The majority of P containing substances reached a maximum concentration after 4 days and decreased at the 6th day; however, the P of nucleins continued to increase. N-concentration increased during the entire experiment. In the dry defatted substance of the regenerating liver, at the end of 36 hours, there was already an increase in nucleins and protein. Between 36 hrs and 4-th day the quantity of protein and nucleins

Card 1/2

_ 0 _

GREBENNIKOVA, N.P.; NOVIKOVA, N.M.

Cytological investigation of the liver of young and old rate during a protein-free diet, subsequent normal mitrition, and gegeneration.

Uch. sap XHGU 108:149-159 160. (MIRA 14:3)

1. Kafedra biokhimii Khar'kovakogo gosudarstvennogo universiteta.
(LIVER) (AGE) (MALNUTRITION)
(REGENERATION (BIOLOGY))

NOVIKOVA, N.M.

Changes in the composition of liver tissue in old animals under

conditions of a protein-free diet, subsequent normal nutrition, and regeneration. Uch. sap KHGU 108:161-177 '60. (MIM 14:3)

1. Kafedra biokhimii zhivotnykh Khar'kovskogo gosudarstvennogo universiteta.

(LIVER) (AGING) (MALNUTRITION)

(LIVER) (AGING) (MALL (REGENERATION (BIOLOGY))

NOVIKOVA, N. M., CAND BIO SCI, "Reclication of the METABOLISM OF HUGLEIC ACIDS IN THE LIVER OF ANIMALS OF VARIOUS AGES UNDER ARTIFICIAL STIMULATION OF PROTEIN SYNTHESIS." KHAR'-KOV, 1961. (KHAR'KOV STATE MED INST). (KL, 2-61, 205).

-88-

NOVIKOVA. N. M.

"Investigation of the Change of the Modulus of Elasticity in the Process of Vulcanization of Natural Butadienestyrol Rubber. " Sub 23 Apr 51. Moscow Instrof Fine Chemical Technology imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480. 9 May 55

Cand charmed Sei)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

FD 195 HOVIKOVA. N. M.

USSR/Chemistry - Rubber and Elastomers

Card 1/1

: Bartenev, G. M., Ratner, S. B., Novikova, N. M., Konenkov, K. S. Authors

: Testing of rubber in regard to its resistance to low temperatures by Title

measuring the loss of elasticity

Periodical: Khim. prom. 4, 32-34 (224-226), June 1954

: Authors regard as unsatisfactory the standard procedure GOST 408-53 in which the resistance of rubber to low temperatures is determined by meas-Abstract

uring the increase in rigidity on the basis of the ratio of deformation at to deformation at 20°. Describe in detail a procedure developed by them in which the temperature T is determined at which the rigidity of the rubber increases by the factor 1/K. As distinguished from the GOST procedure, determination of K (coefficient of resistance to low temperatures) by the new method does not depend on the time during which the deforming force is applied. Four USSR references, one since 1940; two

foreign references. Three graphs, two figures.

SOV/69-21-1-1/21

15(9)

Bartenev, G.M. and Novikova, N.M.

TITLE:

AUTHORS:

The Percussion Deformation of Rubber (Deformatsiya

reziny pri udare).

PERIODICAL: Kolloidnyy zhurnal, 1959, Vol XXI, Nr 1, pp 3-8 (USSR)

ABSTRACT:

Ye. V. Kuvshinskiy and Ye. A. Sidorovich [reference 5] developed a method of determining the elastic properties of rubber during percussion, and proposed a theory of a method which permits the determination from experimental data of two independent constants of rubber, the dynamic elastic modulus and the angle of mechanical losses. A pendulum elastometer, described in detail, was used for the experiment. As a result of graphic and analytical calculations, the authors found that at a permanent initial percussion speed, a proportional correlation between the kinetic energy and the square of the percussion deformation occurs. The coefficient of this proportionality is called a "percussion modulus". The correlation also holds for

Card 1/2

The Percussion Deformation of Rubber

SOV/69+21-1-1/21

low temperatures, so that the frost stability can be estimated by the sharp change in the percussion modulus. The names of M.M. Reznikovskiy and E.L.Chernyakova are also mentioned in the article. There are 7 graphs, 2 diagrams and 8 references, 5 of which are Soviet and 3 English.

ASSOCIATION: Nauchno-Issledovatel'skij institut rezinovcy promyshlennosti (The Scientific Research Institute of the

Rubber Industry), Moscow.

June 10, 1957. SUBMITTED:

Card 2/2

s/138/60/000/007/007/010 A051/A029

AUTHORS:

Bertenev, G.M.; Novikova, N.M.

TITLE:

An Instrument and Method Used for the Determination of High-Elastic Properties of Rubber, at Low Temperature

PERIODICAL

Kauchuk i Rezina, 1960, No. 7, pp. 28 - 33

A method for the testing of rubber elasticity was developed and the YTKM-3 (UPKM-3) instrument (Fig. 1) designed by the NIIRP was applied to this purpose. It can be used for the simultaneous testing of 8 samples of different rubbers by means of a special attachment designed by D.I. Smirnov and B.S. Tsu Yun Khan. The functioning principle of the attachment is described. Formula (1) was derived which can serve as the basis for the quick determination of rubber elasticity at low temperature. Two factors, the frost-resistance To,1 and the duration of the forces acting under static deformation, t, are taken into consideration. In developing the method for rubber elasticity testing at low temperatures two possibilities had to be noted: 1) the testing of newly-processed rubber, 2) the testing of mass-produced rubber. The authors refer to the ISO instrument and the method recommended by the International Organization of Standards and point out

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S/138/60/000/007/007/010 A051/A029

An Instrument and Method Used for the Determination of High-Elastic Properties of Rubber at Low Temperature

that these are applicable only to the second group of rubber. The method of the ISO does not include the determination of the effect of the temporary conditions of deformation on the frost-resistance of the rubber and the instrument does not ensure the rapid determination of this relationship, since it can handle only static load conditions. The UPKM-1 instrument does not have these disadvantages. With this instrument the frost-resistance index at dynamic (1,500 bendings/min) and static conditions can be determined in compression deformations. A period of 30 sec is suggested for the static tests. The design of the UPKM-1 instrument was improved (Ref. 3). A mixture of dry ice and alcohol served as the coolant since an alcohol medium at low temperatures does not affect the results of the experiments (Refs. 4 and 5). It was found that the UPKM-3 can replace 8 standard instruments since it requires less time for the test. A detailed explanation is given of the testing method. Using formula (1) the frost-resistance index can be calculated. Formulae 2 and 3 represent the frost-resistance coefficients for cases of compression deformation and elastic restoration, respectively. The latter factors k and k^{t} are numerically equal to each other, i.e., $k = k^{2}$. Figure 2

Card 2/4

S/138/60/000/007/007/010 A051/A029

An Instrument and Method Used for the Determination of High-Elastic Properties of Rubber at Low Temperature

shows that the two curves coincide for the temperature dependence of the frost-resistance coefficient of commercial rubber on CHH-18 (SKN-18) base under compression and at restoration. The experiments and the tests carried out with the UPKM-3 show that it can be recommended for determining the characteristics of rubber used for sealing parts and in various shock absorbers. The instrument can also be used for determining the degree of crystal formation in rubber during cooling without stress. Other methods do not include the testing of rubber for crystal formation which leads to a loss of the elastic properties, just as in the case of vitrification. The problems of vitrification and crystallization in rubber are further discussed, describing the factors which affect the crystallization, e.g., vulcanization, presence of sulfur, accelerator, amount of the masticator, state of tension of the rubber sample and how the crystallization affects the density and hardness of the rubber. The testing method for crystallization is explained in detail. It usually takes from 10 to 30 days, depending on the rate of the rubber crystallization. The crystallization index is taken to be the provisional period of crystallization, determining the time which it takes the rubber to increase its

Card 3/4

S/138/60/000/007/007/010 A051/A029

An Instrument and Method Used for the Determination of High-Elastic Properties of Rubber at Low Temperature

hardness by a factor of 2 (Fig. 4). It is further pointed out that the instrument can be used for experiments on orystallization determination in rubber, which has been subjected to preliminary tension by means of a micro-bolt at room temperature. Otherwise the entire procedure is similar to that of crystallization determination of rubber in a relaxed state. There are 4 graphs, 1 set of photographs and 12 references: 5 Soviet and 7 English.

ASSOCIATION: Nauchno-issledovatel skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

Card 4/4

ROZEN, A.M.; KHORKHORINA, L.P.; YURKIN, V.G.; NOVIKOVA, N.M.

Interaction of tributyl phosphate and tributyl phosphate solvate with diluents. Dokl. AN SSSR 153 no.6:1387-1390 D '63. (MIRA 17:1)

1. Predstavleno akademikom A.N. Frumkinym.

```
NOVIKOVA, W. Ie., prof., MOVIKOVA, M.H.

SIDCROV, M. Ie., prof., MOVIKOVA, M.H.

Combined anesthesia in gynecological operations [with summary in English]. Akush. i gin. 34 no.2:74-77 Mr.Ap '58. (MIRA 11:5)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. N.Ye. Sidorov) Kasanskogo instituta usovershenstvovaniya vrachey imeni V.I. Lenina.

(CENITALIA, FEMALE, surg.
local anesth., with hypothermia (Rus))

(HYPOTHEMIA in gyn.surg., with local anesth. (Rus))

(AMESTHSIA, LOCAL potentiation with hypothermia in gyn.surg. (Rus))
```

NOVIKOVA, N.M.

Local anesthesia with use of ganglion-blocking and neuroplagic drugs in extirpation of the uterus. Akt. vop. obezbol. no.2: 203-206 '59. (MIRA 14:5)

1. Iz akushersko-ginekologicheskoy kliniki (zaveduyushchiy prof. N.V.Sidorov) Kazanskogo instituta usovershenstvovaniya vraqhey
imeni V.I.Lenina.

(LOCAL ANESTHESIA) (AUTONOMIC DRUGS)

(UTERUS—SURGERY)

NOVIKOVA, N.M. Neuroplegic substances in combination with local anesthesia in surgery for cancer of the uterine corpus and cervix. Sov. med. 25 no.8:40-43 Ag '61.

Ag 161.

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. N. Ye. Sidorov) Kazanskogo instituta usovershenstvovaniya vrachey imeni

V.I.Lenina. (HYSTERECTOMY) (AUTONOMIC DRUGS) (UTERUS_CANCER) (LOCAL ANESTHESIA)

ALEKSEYEV. A.F.; HORISENKO, A.P.; GLIKSON, V.I.; GROMOVA, N.F.; KRASOVSKAYA,
A.I.; HOVIKOVA, E.E.; OVCHAROVA, A.I.; KHVOYHIK, P.I.; CHURAKOV, V.P.;
SHASTITKO, V.M.; GROHGIYEV, Ye.S., red.; SHIL'DKRUT, V.A., red.;
LEVCHUK, K.V., red.; LEKANOVA, I.S., tekhn.red.

[Prices on the world capitalistic market; a handbook] TSeny mirevogo kapitalisticheskogo rynka; spravochnik. Moskva, Vneshtorgisdat, 1958. 391 p. (MIRA 12:7)

1. Moscow. Mauchno-issledovateliskiy kon yunkturnyy institut.
(Prices)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

BOVIFOVA, N. H.

"Organometallic Compounds of Mercury." KXVI. Interaction of Symmetrical Aryl Compounds of Mercury with Aluminium and the Synthesis of Organoaluminium Compounds," Iz. Ak. Nauk SSSR, Otdel. Khim. Nauk, No. 6, 1942. Ebr., Inst. Organic Chemistry. -1942-.

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

NOVIKOVA, N.N.

KARACHNIK, M. I.

Phospho-organic compounds, IV, Derivatives of 2-chloroethanephosphonic acid. M. I. Kabachnik, P. A. Rossiyskaya and N. N. Novikova. Bull. Adad. Sci. URSS, Classe sci. chim. 1947, 97-100

Dry EtOH (13.8g.), 23.4g. pyridine, and 120 cc. Et₂0, treated with cooling and stirring with 27g. ClCH₂CH₂POCl₂(I) in Et₂0, let stand overnight, and filtered, give 18 g. ClCH₂CH₂PO (OEt)₂, b₄ 92-4⁵, d, 1.1565, d, 1.1558, n₂² 1.4390. Significantly, 18.2 g.

(for more of the abstract see card on KABACHNIK, M. I.)

NOVIKOVA, N.N.

Atypical cultures of intestinal bacteria in water from the Stalin Water Works and their hygienic evaluation. Uch. zap. Mosk.nauch.issl.inst.san.i gig. no.4:18-21 *60 (MIRA 16:11)

Comparative study of the effectiveness of standard methods for calculating the indices of fecal pollution of open waters. Ibid. \$25-28

MITYAGINA, Z.M.; NOVIKOVA, N.N.

More material on an apparatus for preparing extracts. Apt. delo 9 no. 4:66-67 Jl-Ag '60. (MIRA 13:8)

1. Kafedra tekhnologii lekarstv i galenovykh preparatov Permskogo farmatsevticheskogo instituta. (PHARMACY—EQUIPMENT AND SUPPLIES)

NOVIKOVA, N.N.

Qualitative reactions of bensylpenicillin. Apt. delo 9 no.6:19-23 N-D '60. (MIR& 13:12)

1. Kafedra tekhnologii lekarstv i galenovykh preparatov (zav. - dotsent Z.M. Mityagina) Permskogo farmatsevticheskogo instituta.

(PENICILLIN)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

NOVIKOVA, N.N.; TYDEL'SKAYA, I.L.

Egg albumen as an I-transforming medium for certain streptococcal groups. Lab. delo. no.1:50-53 '65. (MIRA 18:1)

1. Bakteriologicheskaya laboratoriya Ukrainskogo nauchno-issle-dovatel'skogo instituta klinicheskoy meditsiny im. N.D. Strazhesko (direktor - prof. A.L. Mikhnev), Kiyev.

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

CC NR:	6 EWT(m)/EWP(j) RM AT6000049 SOURCE CODE: UR/0000/65/000/000/0136/0141 OR: Nel'son, K.V.; Novikova, N.N. 44	51 B11
ORG:	None 15, 7	
polybu	: Spectroscopic study of the isomerizing effect of vulcanizing agents of cis- tadiene \>	LI LI
SOUR	DE: Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskog ika. Kolebatel'nyye spektry i molekulyarnyye protsessy v kauchukakh (Oscilla a and molecular processes in rubbers), Leningrad, Izd-vo Khimiya, 1965, 136	o .ing i-141
spect	a and molecular processes in rubbers, 22 and	
ABST	RACT: The article deals with the isomerizing effect of the most common ingre- for vulcanization of ois-polybutadiene (SKD rubber), i.e., Captax (mercaptothing vulcanization of ois-polybutadiene (SKD rubber), i.e., captax (mercaptothing vinc oxide, and stearic a	cid.
Altax The s	(dibenzothiazole disultite), suitar, taper and the content varies from 0.15 to 62% of the weight of the rubber, and the content varies from 0.15 to 8 wt.%. The rubber films are spread on NaC ingredients ranges from 0.15 to 8 wt.%. The rubber films are spread on NaC	nt of the windows and UR-102
spec also are	nized for 2 hr at 143C, and their infrared spectra are taken with iniger in the proposition of the isomerization of cis-polybutadiene containing and to be substantially lower than those for Captax and Altax. The data show	g swirur
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ACC NR: AT6000049

indicated ingredients have various activating effects; this is consistent with the concept of the isomerization mechanism of cis-polybutadiene according to which corresponding intermediate π complexes (of Captax, Altax, or sulfur) are formed with the double bond of the elementary unit of the chain. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 07, 11 / SUBM DATE: 10 Jun65 / ORIG REF: 001 / OTH REF: 003

Card 2/1

sions as examples, and investigated the physical, meaning the prepared essentially by ties of emulsions prepared on this basis. The emulsions were prepared essentially by diluting the initial PR-2 emulsion with a solution of polyvinyl acetal. The preparation of the polyvinyl acetal and of the emulsion are briefly described. Several types of polyvinyl acetal were investigated. The tests consisted of determining the swelling of the proving property of property of the proving the swelling of the proving property of the proving the mechanical strength, and the photographic grain density and the fog-

Card 1/2

ACC NR: AT7000923

ging ability. In view of the fact that addition of small amounts of polymer, practically 10% of the weight of the gelatin, made the system colloidally unstable, the authors carried out experiments to determine the optimal conditions of coagulation of the fine-grain nuclear emulsion, washing, and peptization of the precipitate, and also to study the feasibility of producing after peptization a system which is colloidally stable for all values of pH. These tests consisted of determining the influence of gelatin and KNO₃ on the peptization of the coagulant, aging tests, and tests on the effects of reducing the gelatin content. The results show that polyvinyl acetal can be used as a substitute for a fraction of the gelatin, but a gelatin/polymer ratio of about 22.5 is still required to prepare a workable emulsion. Orig. art. has: 9 figures and 5 tables.

SUB CODE: 207 SUBN DATE: 00/ ORIG REF: 007/ OTH REF: 001

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

HOVIKOVA, H. R., PERFILOV, H. A. and PROKOF YEVA, E. I.

"Very fine grain emulsions for nuclear research," a paper submitted ath the International Conference on Radioisotopes in Scientific Research, Pairs 9-20 Sep 57.

PERFILOV, N. A., PROKOFYEVA, E. I., NOVIKOVA, N. R., LOZHKIN, O. V., DAROVSKIKH, V. F., and DENISENKO, G. F. (Institut du Radium, Leningrad, USSR)

"Sur Les Principes de Preparation d'emulsiosn a Grains Tres Fins Pur Les Recherches Nucleaires et Leurs Proprietes."

paper presented at Program of the Second International Colloquium on Corpuscular Photography.

Montreal, 21 Aug - 7 Sep 1958.

Encl: B-3,114,647.

21 (0)

CHICOM/28-3-5-4/20

AUTHOR:

N. A. Perfilov, N. P. Novikova, E. I. Prokofeva

TITLE:

Extremely Fine-Grained Nuclear Emulsion

PERIODICAL:

Yuan Tzu Nêng, 1958, Vol 3, Nr 5, pp 438-443

ABSTRACT:

The authors discovered a method for manufacturing extremely fine-grained nuclear emulsion. A method of potential control reportedly can provide good reproducibility. The most probable size of the grains were 0.04-0.08 u. The principle and process are described. Three different types of emulsion are presented and illustrated by microphotographs and figures. The first type is a low-sensitivity "\pi -9 fragment" emulsion, that can be used to detect particles with specific ionization losses, such as highly charged fragments, \(\Lambda \) -particles with energies from 20-30Mev. and 5-7Mev. protons. The second type is "\(\pi -9 \) sensitive" emulsion which can be used to detect protons with energies of approximately 50 Mev. The third type is the "\(\pi P \) relativistic" emulsion, that can detect minimum ionization charged particles. The authors also reported that the first type emulsion film will not change in characteristics after a year storage period. The second type

Card 1/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

eligi e e ●		perties o	of the third	. type has not	t been investi	ne storage pro- igated in detail om references.	<u>.</u>
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NOVIKOVA, N.R.

AUTHORS.

Perfilov, N. A., Novikova, N. R., Prokof yeva, Ye. I. 89-1-5/29

TITLE:

A Particular Fine Emulsion for Nuclear Investigations (Csobo melkozernistyye emulsii dlya yadernykh issledovaniy).

PERIODICAL:

Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 45 - 51 (USSR).

ABSTRACT:

A production method for nuclear photoemulsions is described, in which the measurements of the microcrystals are 0.04 - 0.08 A and which are very uniformly distributed in the entire layer. In order to warrant reproducibility in production, a method of "potentiometer control" is given. By this method it is possible with great accuracy to attain the aim that, in the mixing of the components of the photoemulsion, the ratio between bromine— and silver ions always remains constant. The time of emulsion fixation is determined by the quantity to be produced. For loo mil liquid emulsion it is ~ 18 me.

According to the registration sensitivity with respect to charged particles the photoemulsions produced can be divided into 3 groups which differ only as to small additions and the manner of sensibili-

zation.

Type I. Emulsion "P = 9 for Fission Products", with this emulsion highly ionized ions of fission fragments, 20 = 30 MeVa=pare ticles, and 5 = 7 MeV protons can be recorded.

Card 1/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8 CORP. CONTROL OF THE PROPERTY OF THE PROPERTY

AUTHOR:

Novikova, N.R.

SOV/77-4-1-7/22

TITLE:

The Effect of Iodide on the Properties of an Especially Fine-Grained Nuclear Emulsion (Vliyaniye yodida na svoystva osobomelkozernistoy yadernoy

emul'sii)

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 1, pp 49-55 (USSR)

ABSTRACT:

The basic results of this work were obtained in Dec 1955. The author has studied foreign and domestic literature carefully, but found that the effect of iodide on the properties of emulsions that are sensitive to ionizing radiation has not been studied in detail before. So this investigation was concerned with the effect of iodide on the scattering, light sensitivity and sensitivity towards electrons and of particles of a fine-grained nuclear emulsion. This emulsion was manufactured in accordance with type P-9 emulsion and contained different amounts of potassium iodide.

Card 1/3

SOV/77-4-1-7/22

The Effect of Iodide on the Properties of an Especially Fine-Grained Nuclear Emulsion

The ratios of silver iodide to silver halide expressed by molecular percentage was 0; 2.5; 5; 7.5; 15; 20 (Photo 1). Light sensitivity was expressed by GOST units, sensitivity to particles and electrons by the units established by A.L. Kartuzhanskiy. The author found that the effect of iodide on the light sensitivity and the sensitivity to particles of a non-sensitized nuclear emulsion is analogous to its effect on the light sensitivity of photographic emulsions. The effect of iodide on sensitivity to electrons is negative. Increased concentration of silver iodide in the emulsion decreases its ability of being sensitized by gold the same degree. Increased concentration of surplus Ag ions makes the degree of scattering grow to a determined maximum and decrease after this maximum has been reached, despite a further increase of the concentration.

Card 2/3

SOV/77-4-1-7/22

The Effect of Iodide on the Properties of an Especially Fine-Grained Nuclear Emulsion

The author was assisted by laboratory **head** Professor N.A. Perfilov, Professor K.S. Lyalikov, I.R. Protas, and Ye.I. Prokof'yeva who helped in the emulsion synthesis. There are 5 tables, 6 graphs, 1 photo and 12 references, 9 of which are Soviet, 1 Canadian, 1 English and 1 German.

ASSOCIATION: Radiyevyy institut imeni V.G. Khlopina AN SSSR

(The Radium Institute imeni V.G. Khlopin of

the AS USSR)

SUBMITTED: May 7, 1957

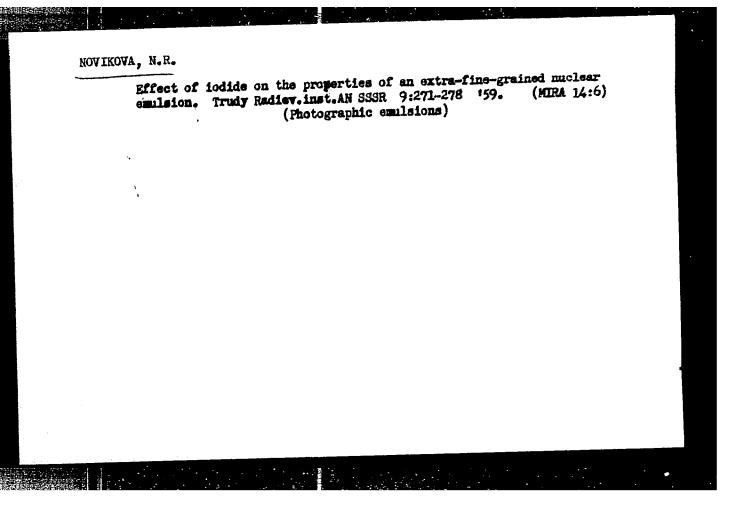
Card 3/3

PERFILOV, N.A.; PROKOF YEVA, Ye.I.; NOVIKOVA, N.R.

Increasing the sensitivity of an extra-fine-grained emulsion by the use of the double sensitization method. Trudy Radiev.inst.AN SSSR 9:268-270 159. (MIRA 14:6)

(Photographic emulsions)

CIA-RDP86-00513R001237510013-8" APPROVED FOR RELEASE: 08/23/2000



NOVIKOVA, N.R.

Nuclear track emulsions made from lead and silver salts. Zhur. nauch.i prikl.fot.i kin. 5 no.2:145-146 Mr-Ap '60. (MIPA 14:5)

1. Radiyevyy institut im. Khlopina AN SSSR.
(Photographic emulsions) (Photography, Particle track)

PERFILOV, N.A.; PROKOF'YEVA, Ye.I.; NOVIKOVA, N.R.; LOZHKIN, O.V.; DAROVSKIKH, V.F.; DENISENKO, G.F.

Manufacturing principle and properties of extra-fine grain emulsions for nuclear investigations. Zhur.nauch.i prikl.fot. i kin. 5 no.4:262-273 J1-Ag '60. (MIRA 13:8)

1. Badiyevyy institut im. V.G.Khlopina AN SSSR.

(Photographic emulsions)

(Photography, Particle track)

NOVIKOVA, N. A., Cand Tech Sci - "Increase the sensitivity and dispersion ability of cates fine-grained emulsion for nuclear study." Len, 1961. (Min of Culture RSFSR. Leningual Inst of time Engineers) (KL, 8-61, 246)

- 277 -

Electron-microscopic study of the emulsification process and of the ripening of superine-grained emulsions. Zhur.mauch.: priklefot, i kin. 6 no.4:247-250 Jl-Ag *61. (NIRA 14:11) 1. Radiyevyy institut imeni V.G. Ehlopina AN SSSR. (Photographic emulsions)

PERFILOV, N.A.; NOVIKOVA, N.R.; ZAKHAROV, V.I.

Investigating the anomalous recrystallization of extrafins grain nuclear emulsions during the second ripening. Zhur.nauch.i prikl. fot. i kin. 6 no.5:338-344 S-0 '61. (MIRA 14:9)

1. Radiyevyy institut AN SSSR.

(Photography, Particle track)

(Photographic emulsions)

PERFILOV, N.A.; NOVIKOVA, N.R.; ZAKHAROV, V.I.; VIKHREV, Yu.I.

Photographic emulsion PR-2 for nuclear research. Atom. energ. 11
no.6:543-544 D '61.

(Photographic emulsions) (Nuclear research)

(Photographic emulsions) (Nuclear research)

PERFILOV, N.A.; NOVIKOVA, N.R.; ZAKHAROV, V.I.

Magnitude and structure of the developed grains in extra
fine-grained nuclear emulsions. Zhur.nauch.i prikl.fot.i
fine-grained nuclear emulsions. Zhur.nauch.i prikl.fot.i
kin. 8 no.1:62-63 Ja-F '63.

1. Radiyevyy institut AN SSSR imeni V.G.Khlopina.
(Photography, Particle track) (Photographic emulsions)

ZAKHAROV, V.I.; NOVIKOVA, N.R.; PERFILOV, N. A.; FADINA, Ye.V.

Properties of fine-frain nuclear emulsions dependent on the pAg and the temperature of emulsification and first ripening.

Zhur. nauch. i prikl. fot. i kin. 9 no.1:21-27 Ja-F'64.

(MIRA 17:2)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001237510013-8

L 07164-67 EVT(1) IJP(c)
ACC NR: AT6029517 (A)

SOURCE CODE: UR/3180/66/011/000/0135/0160

AUTHOR: Novikova, N. R.

18+1

ORG: none

20

TITIE: Synthesis of photographic emulsions for nuclear studies

SOURCE: AN SSSR. Komissiya po khimii fotograficheskikh protsessov. Uspekhi nauchnoy fotografii, v. 11, 1966. Khimiya fotograficheskikh emul siy. Strukturnyye svoystva fotograficheskikh sloyev (Chemistry of photographic emulsions. Structural properties of photographic films), 135-160

TOPIC TAGS: photographic emulsion, nuclear emulsion

ABSTRACT: After reviewing the history of the use of photographic emulsions in the Soviet Union and other countries, the author describes in detail the methods of synthesis of such emulsions. These include (1) synthesis in excess bromide ions (ammonia method, ammonia-free double solvent method and ammonia-free three-solvent method), (2) synthesis in excess silver ions and (3) the diffusion method. A comprehensive list of the emulsions (and their applications) manufactured by various firms is given. A table indicating the characteristics of relativistic nuclear emulsions obtained by different researchers at different times is also presented. Of the large number of nuclear emulsions synthesized at various institutes, those most commonly used in the Soviet Union have been developed at NIKFI by K. S. Bogomolov and co-workers and N. A.

Card 1/2

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001237510013-8"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

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C4	2/2 mx	<u> </u>											

ZAKHAROV, V.I.; NOVIKOVA, N.R.; FERFILOV, N.A.; FADINA, Ye.V.

Fyrogallolamidol developer for nuclear emulsions. Zhur.nauch.
1 prikl.fot. 1 kin. 9 no.61422-425 N-D *64.

(MIRA 18:1)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

NOVIKOVA, N. S.

Movikova, N. S. (Biology) Determination of the daily reach ration of the North Caspian Sea directly in the sea. P. 107

Chair of Ichthyology July 24, 1950

SO: Herald of the Moscow University, Series on Physics-Mathematics and Natural Sciences, No. 3, No. 5, 1951

NOVIKOVA, N.S.

Behavior of the Northern Caspian reach on their feeding grounds. Vop.ikht.no.7:36-51 '56. (MERA 10:3)

 Lafedra ikhtiologii Moskovskogo gosudarstvennog universiteta im. N.V. Lomonosova.
 (Caspian Sea-Roach (Fish))

HOVIKOVA, N.S.

Some data on feed rations of codfish and haddock of the Berents Sea. Dokl. AN SSSR 146 no.4:960-962 0 '62. (MIRA 15:11)

1. Polyarnyy nauchno-issledovatel skiy i proyektnyy institut morskogo rybnogo khozymystva i okeanografii im.
N.M. Knipovicha. Predstavleno akademikom Ye.N. Pavlovskim.
(Barents Sea-Fishes-Food)
(Barents Sea-Godfish)

NOVIKOVA, N.S.

Some problems of feeding habits and food behavior of cod and haddock in the Barents Sea. Trudy MMBI no.7:3-47 165.

Role of ctemophores as food for Barents Sea cod and haddock. Ibid.;61-67 (MIRA 18:8)

1. Polyarnyy nauchno-issledovatel skiy i proyektnyy institut morskogo rybnogo khozyaystva i okeanografii imeni N.M. Knipovicha i Murmanskiy morskoy biologicheskiy institut AN SSSR.

NOVIKOVA, N.S.: GERASIMOVA, L.V.

Quantitative equivalents for field analysis of the feeding habits of cod. Trudy MMBI no.7:68-78 '65.

(MIRA 18:8)

1. Polyarnyy nauchno-issledovatel'skiy i proyektnyy institut morskogo rybnogo khozyaystva i okeanografii imeni N.M. Knipovicha i Murmanskiy morskoy biologicheskiy institut AN SSSR.

HOVIKOVA, M.S.

Bacterial diseases of kek-saghys. Report no.1. Mikrobiel.shur. 9 ne.48-52 148. (MIRA 9:12)

1. Is otdela bakteriosev rasteniy (sav. otdelem - K.I.Bel'tyukeva) Instituta mikrebielegii imeni akademika D.K.Zabeletnego Akademii nauk USSR.

(UKPAINE--KOK-SACHYZ--DISMASMS AND PASTS)

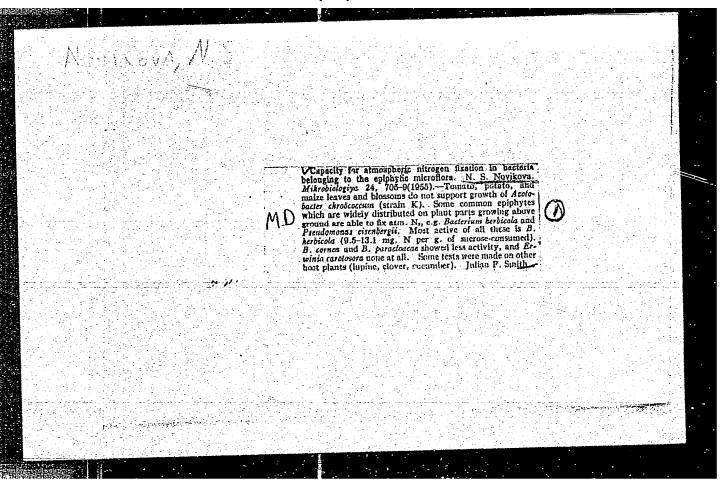
"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8

MATE Kok-Saghyz Seeds the Source of Infection in Bacteerial Withering of the Kok-Saghyz Feducle?" Mikrobiol Zhur, Kiev, Vol. 12, No. 4, pp 99-104, 1950.

Sources and ways of spreading infection in bacterial wilt of receptacles of kok-saghys. Mikrobiol.shur. 13 no.2:48-61 '51. (MEM 9:9) 1. Is otdels bakteriosov rasteniy (sav. otdelom - K.I.Bel'tyukova) Institute mikrobiologii imeni akademiim D.K.Zabolotnogo Akademii nauk USSZ. (UKRAINE--KOK-SACHTY-DISTASES AND PESTS)

HOVIKOVA, N.S. Becteriophage phenomena in bacterial epiphytic affections of certain agricultural plants. Mikrobiol.zhur. 14 no.3:46-57 '52. (NLRA 6:11) 1. Z Institutu mikrobiologii Akademii nauk URSE. (Botany--Pathology) (Bacteriophagy)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001237510013-8



NOVIKOVA, N. S.

MOVIKOVA, N. S. -- "Increasing the Productivity of the Wheat Spike on the Basis of Stage Analysis of the Conditions of Occurrence of the Third and Fourth Stages of Organogenesis." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov. Moscow, 1956. (Dissertation for the Degree of Candidate of Biological Sciences.)

SO: Knizhnava letopis', No. 4, Moscow, 1956

PUCHKOVA, L.I.; Prinimali uchastiyas OSIPOVA, T.T.; NOVIKOVA, N.S.

Study and evaluation of the spinning characteristics of the new synthetic fibers. Nauch.-issl.trudy TSNIKHBI za 1958 g3 (MIRA 16:1)

3-20. (Cotton—Testing)

IZRAIL'SKIY, V.P., prof., doktor biolog.nauk; SHUSTOVA, L.N., kand.med.
nauk; GOHLENKO, M.V., doktor biolog.nauk; MUHAV'YEV, V.P.;
HEHEZOVA, Ye.F., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog;
GEUSHEVOY, S.Ye., doktor biolog.nauk; HEMCIYENKO, F.Ye.,
doktor biolog.nauk; BEL'TYUKOVA, K.I., doktor biolog.nauk; STARYGINA,
L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; AET'YEM'YEVA,
Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; CSNITSKAYA, Ye.A.,
fitopatolog; YASHKOVA, N.V., fitopatolog-mikrobiolog; NIKZAHEK'YAN,
R.O., kand.biolog.nauk; TETYUREVA, I.V., red.; PEVZNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2., perer. i dop. Moskva, Gos.izd-vo selkhoz.lit-ry, 1960. 467 p.
(MIRA 13:7)

1. Chlen-korrespondent Ukrainskoy AN (for Murav'yev).
(Bacteria, Phytopathogenic) (Plant diseases)

NOVIKOVA, Nina Samoylovna; SOLOV'YEVA, A.I., red.izd-va; DAKHNO, Yu.B., tekhn. red.

[Bacterial flora of the aerial organs of plants] Bakterial'naia flora nadzemnykh organov rastenii. Kiev, Izd-vo AN
USSR, 1963. 87 p. (MIRA 17:2)

CHESNOKOV, V.A.; RAKHIMOV, G.; BUSHUYEVA, T.M.; NOVIKOVA, N.V.

Effect of warming up of leaves on the photosynthesis and activity of isolated chloroplasts. Vest. LGU 19 no.15:105-110 '64.

(MIRA 17:11)



NOVIKOVA, N.V. (Kiyev)

Distribution of the influenza virus in various organs in experimental infection. Vrach delo no.6:105-108 Je '61. (MIRA 15:1)

1. Institut infektsionnykh bolezney AMN SSSR. (INFLUENZA_MICROBIOLOGY)

USSR/much and Amical Physiology. Blood. Blood Chemistry.

 \mathbf{T}

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93063.

Author : Hovikova, N.V., Kuz'menko, I.I.

Inst

Title : Study of the Polarographic Effect of Blood Proteins

in Hormal and Castrated .mirals.

Orig Pub: Probl. endolminol. A gomeonotempii, 1950, 2, No 2,

.bstract: A polarographic study of the blood proteins of 300 nor-

ral and castrated rabbits and dogs was undertaken using the method of E. M. Mon. etyuk (theses of reports to scientific session dedicated to 30th anniversary of the Hygichic Institute of Jabor and Occupational Diseases, Moscow, 1953, 24 - 26), to determine the 'point of equi-

Cr.rd : 1/3

T

USSP/Muram and Amiral Physickery. Blood. Blood Chamistry.

The Jour: Ref Zhur-Biol., No 20, 1958, 93063.

librium of the waves (PEW). In castrated dogs there was no change in p_{μ}^{μ} of the total protein in the serum, but the peak of the polarographic waves and PEW in the serum of normal dogs was lower than that of castrated dogs where the first shifts were noted on the 19th day of castration. Most the 30th day these indices decreased, and again became high in 12 months and mintained thus level. In rabbits the levered amount of protein (1996) on the serum, plasm, and 115 meted 10 days following constration, was maintained at this level for $1\frac{1}{2}$ months and returned to normal about the 3rd month. The polarographic indices (PI) of blood protein were most noticeably changed after $1\frac{1}{2}$ months. Species differences were in ted according to PI in the protein of the blood and in the 15 of dogs and rabbits.

Card : 2/3

29

USSR/Humn and indual Physical gr. Blood. Blood Collisory.

T

Abs Jour: Ref Har-Blol., B. 20, 1958, 93063.

PI in normal and costrated animals apparently differed through changes following costration of the polarographic active -SN and -S-S groups in the structure of the pretein molecules. -- A.D. Pelaberedeva.

Card: 3/3

MOVIKOVA, N.V. (Thar thov)

reference of fact of blood proteins of normal and castrated animals during the action of pervitin and sodium amytal [with summary in English]. Probl. endok. i gorm. 4 no.4:89-92 [MIRA 11:10]

1. Iz otdela fiziologii (zav. dots. B.A. Vartapetov) Ukrainskogo instituta eksperimental noy endokrinologii (dir. kand.med.nauk S.V. Maksimov).

(BLOOD PROTEINS, eff. of drugs on methamphetamine & amobarbital in castrated animals (Rus))

(AMPHETAMINE, related cpds, methamphetamine, eff. on blood proteins in castrated animals (Rus))

(AMOBAREITAL, eff. on blood proteins in castrated animals (Rus))

(CASTRATION, eff.
on amobarbital & methamphetamine action on blood
proteins in animals (Rus))

HOWIZOVA, M.V.; KUZ'NENKO, I.I. (Khar'kov)

Effect of sodium browide, methyltestosterone, and a methyltestosteronesodium browide combination on serum proteins in castrated animals [with summary in English]. Problemdok. 1 gorm. 5 no.1:51-54 Ja-F *59. (HIRA 12:3)

1. Is fisiologicheskogo otdela (sav. - dots. B.A. Vartapetov) Ukrainskogo instituta eksperimental noy endokrinologii (dir. - kand. med. nauk S.V. Maksimov). (CASTRATION.

off. of sodium bromide & methyltestosterone alone & in combination on blood proteins (Rus))

(HROMDES, effects, sodium bromide, on blood proteins in castrated animals, alone & with methyltestosterone (Rus))

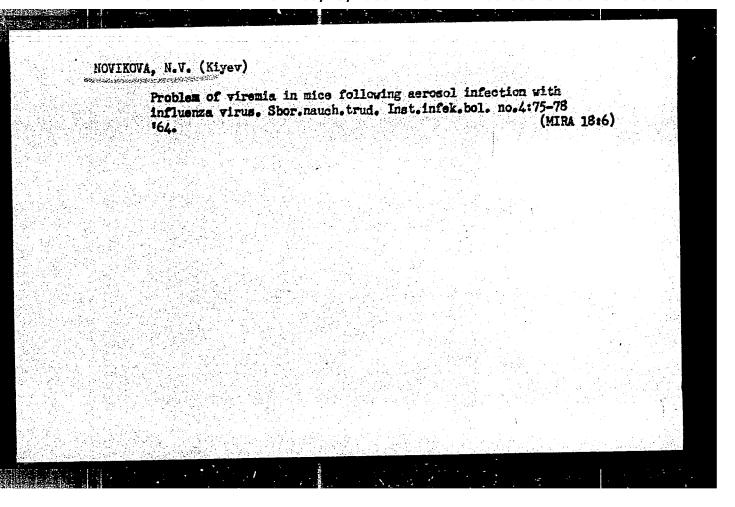
(TESTOSTERONE, rel. cpds.
nethyltestosterone, eff. on blood proteins in castrated
animals, alone & with sodium bromide (Rus))

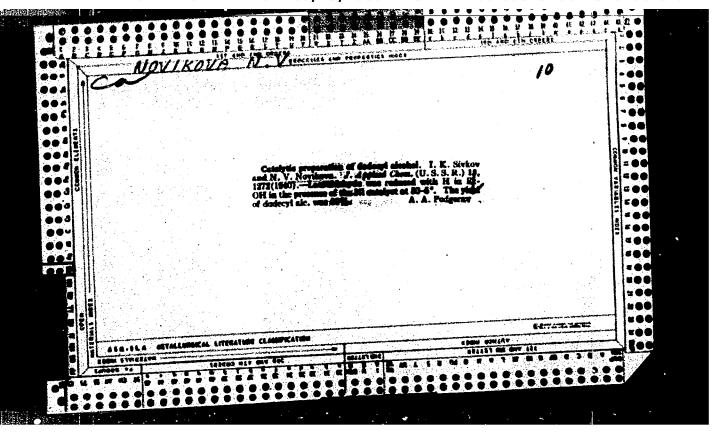
(BLOOD PROFEINS, eff. of drugs on, methyltestosterone & sodium browide, alone & in combination, in castrated animals (Rus))

VARTAPETOV, B.A.; NOVIKOVA, N.V. (Khar'kov)

Effect of ganglionic blocking agents (benzohexonium and pyrilene) on the blood serum proteins and arterial pressure in animals with postcastration hypertension. Probl. endokr. gormonoter. 9 no.415-22 Jl-Ag'63 (MIRA 17:1)

1. Iz fiziologicheskogo otdela (zav. - prof. B.A. Vartapetov) Ukrainskogo instituta eksperimental'noy endokrinologii (dir.-kand.med. nauk S.V. Maksimov).





NOVIKOVA, N. V.

USSR/Chemistry

Card 1/1

Authors

Nesmeyanov, A. N. Academician, Borisov, A. E., and Novikova, N. V.

Title

Isopropenyl mercury and thallium compounds and investigation of their chemical properties

Periodical

Dokl. AN SSSR, 96, Ed. 2., 289 - 292, May 1954

Abstract

Isopropenyl mercury and thallium compounds were derived from the reaction of mercury salts with isopropenyllithium which in turn was obtained from the reaction of metallic lithium and isopropenyl bromide in a dry ester medium. The isopropenyllithium in ester reacts with mercuric bromide forming isopropenyl mercury bromide with yield of 68%. Recrystallized from acetone it continuously melted at 167°. Isopropenyllithium is an ester solution reacts easily with thallium trichloride forming diisopropenyl thallium. Four references; 3 USSR since 1895.

Institution

Academy of Sciences USSR, Institute of Elementary-Organic Compounds

Submitted

March 13, 1954

AUTHORS:

20-119-3-29/65 Nesmeyanov, A. N., Member, Academy of

Sciences, USSR, Borisov, A. Ye., Novikova,

N. V.

TITLE:

Conservation of Propenyl Radical Configuration in Metal to Metal Transition Reactions (Sokhraneniye konfiguratsii propenil'nogo radikala v reaktsiyakh perekhoda ot metalla

k metallu)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3,

pp. 504-505 (USSR)

ABSTRACT:

The authors continue their papers on the stereochemistry of the atom exchange reactions (ref 1). The atoms are connected with the olefine-hydrocarbon. The authors realized several transitions of the cis- and correspondingly of the trans-propenyl-radical in starting from the stereo-isomeric-1-bromo-1-propenes (table 1). These bromides were transformed by action of lithium in ether at +5 to -7°C into corresponding stereoisomeric lithium-propenyl compounds and further into several propenyl-organometallic compounds of Hg. Sn and Tl by subsequent exchange reactions at reduced temperatures. Corresponding stereoisomers of crotonic acid were formed

card 1/3

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001237510013-8

Conservation of Propenyl Radical Configuration in Metal to 20-119-3-29/65 Metal Transition Reactions

by CO, action. The configuration of the initial bromopropene is known as well as rhe configuration of the crotonic- and isocrotonic acid. The configuration of the two compounds of lithium-propenyl which were formed by lithium action on an ether solution of a corresponding bromo-propene at 5 to -7°C was proved by the presence of frequencies 700 and 1623 cm-1 in the infrared spectrum which belong to the substances formed by cis-bromopropene, whereas in the same spectrum of its stereoisomer frequencies 975 and 1645 cm-1 occur. This characterizes the first organolithium substance as cis-, the latter as a trans-isomer. The exchange reactions of these isomers of lithium-propenyl with HgBr, and TlBr, passed under conservation of their configurations, exactly like all other exchange reactions of the metals investigated by the author. This is proved by the delimitation of the transformation region of the cis-lithium-propenyl from the domain of the trans-lithium compound and by the method of even and uneven cycles (ref 1). The transitions 6,7; 7,8; 5; 7, 8, 12, 11, 5; 7, 8, 12, 11, 9, 6 and 11, 9, 10

Card 2/3

Conservation of Propenyl Radical Configuration in Metal to Metal Transition Reactions

20-119-3-29/65

actually contain in the transformation series of translithium-propenyl and the corresponding transformations 18,
19; 19, 20, 17; 19, 20, 24, 17; 23, 24; 23, 21, 22 - 2, 3,
5, 6 terms; they are cyclic, i.e. they return each time to
the initial stereoisomer, independently of the number of
terms. Therefore each probability of reactions with
inversions of configuration is excluded. Thus the above
material once more confirms the rule concerning the
conservation of configuration in electrophil or homolytical
substitutions of an olefine-hydrocarbon (ref 3) put up by
the authors. The transformations 1, 13, 8, 20, 11 and 23
are here apparently homolytical, whereas the others are
electrophil. There are 1 table, and 8 references,
5 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk

SSSR (Institute of Elemental-organic Compounds AS USSR)

SUBMITTED: November 20, 1957

Card 3/5

Retention of the propenyl configuration in the reactions of cisand trans-propenyllithium with oxo-compounds. Dokl. AN SSM 119
and trans-propenyllithium wi

5(3) AUTHORS: Nesmeyanov, A. N., Borisov, A. Ye., Novikova, N. V. sov/62-59-2-11/40

TITLE:

Exchange Reactions of the Isopropenyl Compounds of Mercury, Thallium and Tin (Reaktsii obmena izopropenil'nykh soyedineniy rtuti, talliya i olova)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 2, pp 259-262 (USSR)

ABSTRACT:

In the present paper the reactions of the double exchange of isopropenyl compounds of mercury and thallium as previously described (Ref 1) with salts of heavy metals were investigated. On fusion of diisopropenyl thallium bromide with tin bromide at 200-220 the diisopropenyl tin dibromide with a melting point of 100-101 was obtained. This readily reacts with mercury bromide and forms isopropenyl mercury bromide. This yields in alkali diisopropenyl mercury. In acetone this reaction proceeds in a more complex manner. It essentially resembles one of the variations of the interaction of symmetric organic mercury compounds with stannous salts. From the reaction products of diisopropenyl mercury with thallium tribromide at room temperature in ether the diisopropenyl

Card 1/2

CIA-RDP86-00513R001237510013-8 "APPROVED FOR RELEASE: 08/23/2000

Exchange Reactions of the Isopropenyl Compounds

SOV/62-59-2-11/40

of Mercury, Thallium and Tin

thallium bromide was obtained. This is decomposed at 190-194°. The interaction of diisopropenyl mercury with tin dibromide yields in various solvents isopropenyl mercury bromide, disopropenyl tin dibromide, tetraisopropenyl tin and metallic

mercury. There are 3 Soviet references.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

May 24, 1957

Card 2/2

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NOVIKOVA, N.V.

5(3) AUTHORS:

Nesmeyanov, A. N., Borisov, A. Ye., Novikova, N. V., Osipova, M. A.

SOV/62-59-2-12/40

TITLE:

Synthesis of Organo-Tin Compounds From Organomercurials and Stannous Salts in Inert Solvents (Sintez olovoorganicheskikh soyedineniy iz rtutnoorganicheskikh soyedineniy i soley dvuvalentnogo olova v inertnykh rastvoritelyakh)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 2, pp 263-266 (USSR)

ABSTRACT:

In the present paper the interaction of organomercurials with stannous salts in an inert solvent not containing any mobile hydrogen atom was investigated. It was proved that in this connection no side reaction takes place in which (RO) SNX is formed such as with the application of alcohol

and acetone as solvent. From the reaction of dipropenyl mercury with stannous bromide dipropenyl tin was obtain. In the case of disopropenyl mercury, disopropenyl tin dibromide, tetraisopropenyl tin and isopropenyl mercury bromide were precipitated. The reaction of diphenyl mercury, di-p- and di-o-toluene mercury, di-x-naphthyl mercury and

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Synthesis of Organo-Tin Compounds From Organomercurials and Stannous Salts in Inert Solvents

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diethyl mercury with stannous chloride as well as diphenyl mercury with stannous bromide yielded normal reaction products. There are 3 Soviet references.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-Organic Compounds of the Academy of Sciences, USSR)

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5(3) AUTHORS: SOV/62-59-4-11/42 Nesmeyanov, A. N., Borisov, A. Ye., Novikova, E. V.

TITLE:

On the Possibility of a Synthesis of Organic Tin Compounds by the Reduction of Organic Thallium Compounds With Salts of Divalent Tin (O vozmozhnosti sinteza olovoorganicheskikh soyedineniy vosstanovleniyem talliyorganicheskikh soyedineniy solyami dvuvalentnogo olova)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 4, pp 644-646 (USSR)

ABSTRACT:

In the present work the interaction of cis- and trans-dipropenylthallium bromide, diisopropenylthallium bromide, di-anaphthylthallium bromide with tin bromide and the interaction of diphenylthallium chloride and di-p-tolylthallium chloride with tin chloride upon heating of the reaction products ground to a powder, without solvents, was investigated. The yield of reaction products was between 50% and 85%. A stereo isomer mixture of dipropenyl tin bromide, diisopropenyl tin dibromide, diphenyl tin dichloride, di-p-tolyl tin dichloride and di-anaphthyl tin dibromide appears to have thus been obtained. This reaction was also investigated in various solvents. A re-

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SOV/62-59-4-11/42 On the Possibility of a Synthesis of Organic Tin Compounds by the Reduction of Organic Thallium Compounds With Salta of Divalent Tin

action of diisopropenyl thallium bromide with tin bromide in acetone can be effected only with difficulty. It does not react in benzene and ligroin solutions even when heated. On the other hand, cis-cis-dipropenyl thallium bromide reacts with tin bromide in benzene at 50° to form dipropenyl tin dibromide and thallium dibromide. This reaction is similar to the reaction investigated (Ref 3) between organo-mercury compounds and divalent tin salts and is effected with relative ease. This reaction can be used as a method of synthesizing organic tin compounds of the type R₂SnX₂. There are 6 references, 4 of which are Soviet.

ASSOCIATION:

Institute elementoorganicheskikh soyedineniy Akademii nauk SSSR

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MOVIKOVA. N.V.

5 (3)

TITLE:

AUTHORS:

Nesmeyanov, A. N., Borisov, A. Ye., Novikova, N. V. SOY/62-59-7-10/38

Preservation of the Configuration of the Radical in the Metal Exchanging Reactions of Propenyl Metal Organic Compounds (Sokhraneniye konfiguratsii radikala v reaktsiyakh obmena metalla propenil'nykh metalloorganicheskikh soyadineniy)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 7, pp 1216-1224 (USSR)

ABSTRACT:

This paper belongs to a series of investigations on the stereochemical exchange of atoms bound to olefin carbon. The relative scheme shows that the cis- or transconfiguration of the olefin radical remains preserved in an electrophilic or homolytic substitution. As initial materials for the investigations cis- and trans-1-bromopropene were used. The lithium salts of these compounds were subjected to a metal exchange. Lithium was replaced by mercury, thallium or tin. The configuration of the stereoisomeric lithium propenyl was determined by means of the infrared absorption spectrum and the configuration of the Hg-, T1- and Sn-compounds was determined by means of the infrared spectrum and according to the method of even and uneven numbers

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Preservation of the Configuration of the Radical in the SOV/62-59-7-10/38 Metal Exchanging Reactions of Propenyl Metal Organic Compounds

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

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5(3) AUTHORS:

Borisov, A. Te., Novikova, N. V.

SOV/62-59-9-27/40

TITLE:

Exchange Reactions of Organotin Compounds With Thallium (III)

Chloride

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 9, pp 1670-1672 (USSR)

ABSTRACT:

In the title reaction, the authors previously observed (Ref 1) a smooth transformation of various organotin compounds to organothallium compounds. These investigations are continued in the present paper by studying the reaction between tetraethyl-, butyl-, phenyl-, o- and p-tolyl-, o-anisyl, the stereoisomeric propenyl-, isopropenyl-, and vinyl compounds of tin with thallium (III) chloride. The initial substances were obtained by the Grignard reaction, stereoisomeric tetrapropenyl- and isotetrapropenyl tin being prepared for the first time. A representation of the geometric configuration of these compounds

is given in accordance with the views of Nesmeyanov and papers by the same author (Ref 1). All compounds reacted smoothly with TIC1,

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in ether or chloroform solution at room temperature. Data of initial substances and reaction products are given in table 1.

Exchange Reactions of Organotin Compounds With Thallium (III) Chloride

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The cis- and trans-tetrapropenyl compounds immediately form R2TIC1, the others form mixtures of R2TIC1 and RTIC1₂. The phenyl compounds yield compounds of the latter type only. The tetraethyl and tetrabutyl compounds gave no exchange reaction. Only compounds of the type T1₃(TlC1₆), as well as ethyltin chloride and butyltin chloride were precipitated. The physical constants of some of the thallium compounds obtained are given in table 2. There are 2 tables and 3 references, 1 of which is Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute for Elemental Organic Compounds of the Academy of Sciences, USSR)

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