\$/236/63/000/001/006/015 D403/D307

AUTHORS: Kryauchyunas, I. I. and Zhemis, K. I.

TITLE: Dependence of certain properties of polystyrene, poly-

methyl methacrylate and of their copolymer on the mole-

cular weight

SOURCE: Akademiya nauk Litovskoy SSR. Trudy. Seriya B. no. 1,

1963, 83-92

TEXT: The present work was aimed at determining the effects of polydispersion or mol. wt. on the properties of (a) block polystyrene (type D, grade I), (b) block polymethyl methacrylate, and (c) their 50:50 copolymer, by an ultrasound method. Shear modulus (G), Poisson's coefficient (µ), Young's modulus (E) and the overall clasticity modulus (K) were determined for fractions of different molecular weights (calculated from the viscosities) using a frequency of longitudinal and transverse waves (c₁ and c₁) Tabulated data show that G, µ, E and K are a function of the mole-

Card 1/2

Dependence of certain ...

5/236/63/000/001/006/015 D403/D307

cular weight. Measurements of c₁ and c_t may, therefore, be used to determine the main physical properties of polymers and to assess their usefulness. There are 4 figures and 4 tables.

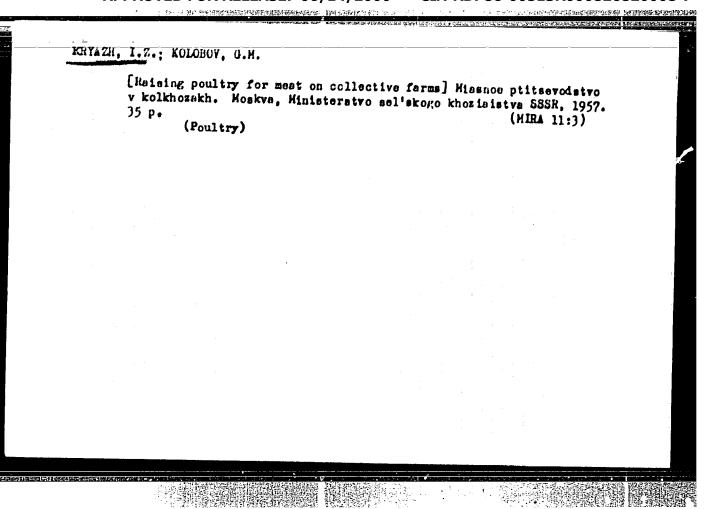
ASSOCIATION:

Institut khimii i khimicheskoy tekhnologii Akademii nauk Litovskoy SSR (Institute of Chemistry and Chemical Technology of the AS Lithuanian SSR)

SUBMITTED:

July 3, 1962

Card 2/2



TRYAZH. Ivan Zakharovich; BMIYUMOV, O.M., red.; TROFIMOV, A.V., tekhn.red.

[Poultry raising is an improtent means of increasing meat production; practices of collective farms on Staromlinovka District in raising poultry for meat] Ptitsevodstvo - vashnyi rezerv uvelicheniia proisvodstva miasa; opyt kolkhozov Staromlinovskogo raiona po razvitiu miasnogo ptitsevodstva. Moskva, Izd-vo "Znanie," 1958. 24 p. (Vsesoiuznoe obshchestvo oo rasprostraneniiu politicheskikh i nauchnykh snanii. Ser.5, no.6) (HIRA 11:5)

1. Sekretar Staromlinovskogo raykoma Kommunisticheskoy partii Ukrainy (for Kryazh) (Staromlinovka District-Poultry)

KRYAZH, I.Z., geruy Sotsialisticheskogo Truda.

Our plans for developing poultry farming in 1958. Ptitsevodstvo 8 no.5:11 My 158. (NIRA 11:5)

KRYAZH, I., geroy Sotsialisticheskogo Truda.

Haising poultry all year around. Hauka i pered. op. v sel'khos 8 no.12:25-27 D '58. (MIRA 12:1)

1. Sekretar' Staroulinovskogo raykoma Kommunistitcheskoy Partii Ukrayny. (Poultry)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

HEYAZH, 1.E., geroy Botsialisticheskogo Truda.

Bew achievements of poultrymen in Staromlinovka District.

Ptitsevodstvo 9 no.2:8-12 F '59. (MIRA 12:3)

1, Sekretar' Staromlinovekogo raykoma Kommunisticheskoy Fartii

Ukrainy. (Staromlinovka District—Foultry)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

KRYAZH, I., Geroy Sotsialisticheskogo Truda

Houses for the year-round maintenance of poultry. 811'.bud. 9 no.10:4-5 0 '59. (MIRA 13:3)

1. Sekretar' byvahego Staromlinovakogo rayonnogo komiteta kommunisticheskoy partii Ukrainy Stalinskoy oblasti. (Staromlinovka District--Poultry houses and equipment)

VOLOSYUK, V.M.; KRYAZH, I.Z.; MIRIANASHVILI, V.V.; MOROZOV, A.F.;
KANDIYEVA, Ye.V., red.; SOKOLOVA, N.N., tekhn. red.

[There will be millions of chicks for meat] Budut milliony
miasnykh tsypliat. Literaturnaia zapis' N.I.Koneva. Moskva, Sel'khozizdat, 1962. 53 p. (MIRA 16:5)

(Poultry)

KRYAZH, V.N.

In the Tula Flant. Put! i put. khez. 8 no.11:25-26 *64 (MIRA 18:2)

1. Mrektor Tul'skogo zavoda zheleznodorozhnogo mashinostroyeniya.

KRYAZHANSKIY...A.a kinoroshisner

Film about over-all mechanisation in road construction. Avt. dor. 22 no.11:26-27 N '59.
(Road construction) (HIRA 13:2)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

BRISKINA, A.I., insh.; KRYAZHEV, B.G., insh.

Work safety at gas works. Besop. truda v prom. 2 no.12:15-17 D '58.

(NIRA 11:12)

(Gas manufacture and works—Safety measures)

BRISKINA, A.I.; KRYAZHEV, B.G.

Safety measures in gas producer stations. Gaz. From. 5 no.3:14-18 Hr '60. (MIRa 13:6) (Gas producers-Safety measures)

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The second secon

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7

Discertation: "Comparative Analysis of Braking Devices Used in Automatic Rosiery Machines." Cand Tech Sci, Roscow Textile Inst, 20 Nay 54. Veckernyaya Roskva, Moscow, 11 tay 54.

30: SUI 284, 26 Nov 1954

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

GRIGOR'YEV, V.S.; KRYAZHEV, F.I.

Propagation of low frequency sound in shallow water. Akust.shur. 6 no.1:34-42 160. (MIRA 14:5)

1. Akusticheskiy institut AN SSSR, Moskva. (Sound-transmission)

KRYAZHEV, F.I.

Sound field of the first normal mode in a layer of water. Akust. zhur. 6 no.1:65-76 160. (MIRA 14:5)

1. Akusticheskiy institut AN SS3R, Moskva. (Underwater acoustics)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

8/046/60/006/02/10/019 B014/B014

24. 1200 authors:

Kryazhev, F. I., Petrov, N. A.

TITLE:

Normal Waves in a Three-layered Medium

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 2, pp. 229-236

TEXT: In the article under review, the authors discuss experimental data on the propagation of normal waves in water on a composite ground. The composite ground consists of a surface layer and a homogeneous basement which is regarded as a semispace. The experiments were carried out in 1956 in a shallow area of the Caspian Sea by means of sound frequencies of 8 - 1000 cps. The water was 7.5 m deep, and the velocity of sound in water was found to be 1480 m/sec. Amplitude- and phase diagrams were plotted with apparatus used already earlier for studies of two-layered media (Refs. 5 and 6). Formula (1) is derived for the description of the field of normal waves, and (6) is given for the phase velocity. At large distances from the emitter it is possible to use the asymptotic representation of the Hankel function appearing in (1), and one obtains formula (7) instead of (1). Before the experiments were carried out, the authors

Card 1/3

Normal Waves in a Three-layered Medium

S/046/60/006/02/10/019 B014/B014

studied the acoustical properties of the ground. The surface layer, which consisted of fine shell rock with sand inclusions, had a thickness of 5.5 m. The underlying layer consisted of water-bearing sand with a depth of 50 m. Measurements of the reflection coefficient of the ground carried out by N. A. Grubnik (Ref. 7) are described. It amounts to 0.845 for the interface between water and ground. Experimental results are illustrated in eight diagrams (Figs. 2-9) which indicate that at critical values of kh (k - wave number of sound waves in water, h - depth of the water layer) the vertical distribution of the sound pressure amplitude is equal at all distances from the emitter. The sound pressure amplitude on the ground reaches a maximum for kh-values of 2.55 and 2.87. The vertical distribution of the pressure amplitude for these kh-values practically follows the theoretical curve of the following values: $n_1 = 0.845$, $n_2 = 0.79$, d/h = 0.734, $m_1 = m_2 = 2$ (n_1 are the reflection coefficients, h is the height of water, d the thickness of the medium layer, and $m_i = g_i/g$, where g denotes the water density and g_i the densities of the two ground layers). The phase of the normal waves remains practically unchanged at all depths. Thus, one obtains good Card 2/3

建设设施的保护的股份等,但是是是不是一个的人的人的,但是是一个的人的人的人,但是是一个的人的人的人的人,但是是一个的人的人的人的人的人,但是是一个的人的人的人的人

Normal Waves in a Three-layered Medium

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agreement between the theoretically calculated characteristic and the experimental results. The author thanks V. S. Grigor'yev, M. A. Isakovich, and Yu. L. Gazaryan for their valuable advice, as well as V. Yu. Zavadskiy, S. G. Strakhov, and V. D. Belyayev for having assisted in experiments. There are 9 figures and 9 references:

ASSOCIATION: Akusticheskiy institut AN SSSR Moskva (Institute of Acoustics of the AS USSR, Moscow)

SUBMITTED: September 30, 1959

Card 3/3

KRYAZHEV, G.S.; OL'KHOVSKIY, G.P.; KONOVALOV, B.T.

Regularities in the distribution of mineralization in the Buron ore field. Izv. vys. ucheb. zav.; tsvet. met. 4 no.5: 15-23 '61. (MIRA 14:10)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra poleznykh iskopayemykh i poiskovo-razvedochnogo dela.
(Buron region-Ore deposits)
(Geology, Structural)

ACC NR. AP6007779 (N) SOURCE CODE: UR/0136/66/000700270069/0071

AUTHOR: Zholobov, V. V.; Kryazhev, K. A.

ORG: none

TITLE: Differences in the wall thickness of tubes produced on horizontal presses

SOURCE: Tsvetnyye metally, no. 2, 1966, 69-71

nickel containing alloy,
TOPIC TAGS: copper, copper alloy, wall thickness, metal tube,metal pressing,dimension
analysis, metal deformation / HI copper, MES copper, MNZh5-1 copper alloy

ABSTRACT: The article deals with the dependence of tube wall thickness on such technological factors as length of the billety ratio between the diameters of container and billet, and degree of deformation. The investigation was performed on a 1,500 ton horizontal hydraulic press with a piercing device; the specimens 100 to 200 mm in length were taken from the tubes thus produced and their wall thickness was measured in four directions through 90° each over the tube perimeter, with the relative nonuniformity of wall thickness Po being determined from the formula

$$P_0 = \frac{t_{max} - t_{min}}{t_{max} + t_{min}}$$

Card 1/2

UDC: 669.2/.8:621.774.38

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| MITES_1 Cu_) | sing length of bill | let. The tube | ss were made o In particular | and 300 mm long, of Miland MES cor that, for tubes | measuring |
|--------------|--------------------------------------|---------------------------------|---------------------------------|--|-------------|
| 40x2.5 mm, 1 | produced from bill | ets with diame he nonuniform | eters of 145, ity of wall th | 140, 135 and 130 hickness increase | s with in- |
| creasing rat | tio of cross sections. As for the ef | onal area of the de | the container egree of defo | to the cross sec rmation &, it was | established |
| 4 formulas. | | | | <u> </u> | en en en en |
| SUB CODE: | 13, 11 / SUBH DA | TE: none / | ORIG REF: 00 | 3 / [| |
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KRYAZHEV, N.A.

Modernising equipment. Avt.prom. 28 no.12:34 D '62. (MIRA 16:1)

1. Ul'yanovskiy avtosavod.
(Technological innovations)

KRYAZHEV, N. A.

"The Investigation of Wood-Machining Quality During Cylindrical Milling." Cand Tech Sci, Moscow Forestry Engineering Inst, 29 Dec 54. (VM, 21 Dec 54)

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

ERYAZHIV. N.A., kandidat tekhnicheskikh nauk.

Vood milling with tapered cutters. Der.prom.5 no.9:3-5 8 156.
(MIRA 9:10)

1. Hoskevskiy lesetekhnicheskiy institut. (Woodworking machinery)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

KRYAZHEV, N.A., kand. tekhn. nauk

Using the MIS-11 double microscope in measuring the dullness of cutting tools. Nauch. trudy MUTI no.6:51-53 '56. (MIRA 11:12) (Cutting machines-Testing)

KRYAZHEV, N.A., kand.tekhn.nauk

Calculation of the optimum geometry of slitting cutters, their processing and performance. Der.prom. 10 no.6:11-12 '61.

(MIRA 14:7)

1. Moskovskiy lesotekhnicheskiy institut.
(Woodworking machinery)

MALYSHEV, Vladimir Vasil'yevich; KHYAZHEV, N.A., red.; BOYKO, L.I., red.izd-va; AKOPOVA, V.M., tekhn. red.

[Designing one-piece and composite profile woodworking cutters] Proektirovanie derevorezhushchikh tsel'nykh i sostavnykh fasonnykh frez. Moskva, Goslesbumizdat, 1963. 73 p. (MIRA 17:3)

K.YAZHEV, Nikolay Aleksandrovich; BERSHADSKIY, A.L., red.; MAESAKOVA, A.M., red.izd-va; KAZANSKAYA, L.I., tekhn. red.

[Cylindrical and conical wood cutting] TSilindricheskoe i konicheskoe frezerovanie drevesiny. Moskva, Goslesbumizdat, 1963. 183 p. (MIRA 17:3)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

·经验的事。22

KRYAZHIV, I....

Test stand for checking the equipment of mechanized hump yards.

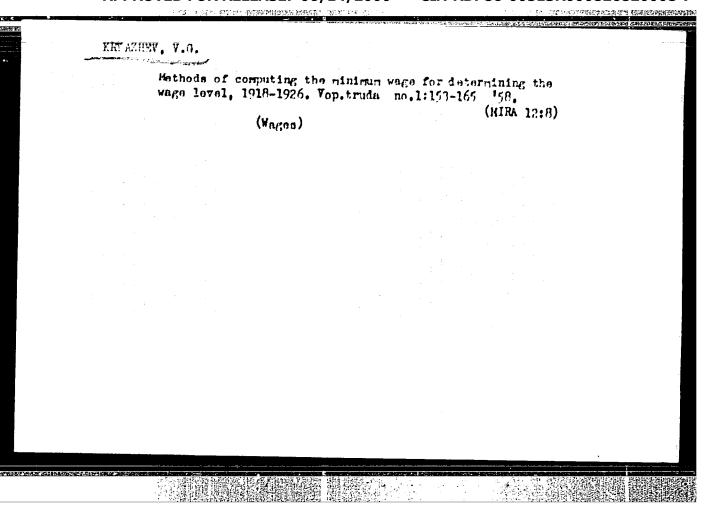
Avtom., telem. i sviaz. 9 no.1:37 Ja '65. (MIRA 18:2)

1. Manter mekhanizirovannoy gorki stantsii Lyangasovo Gor'kovskoy dorogi.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826820008-7

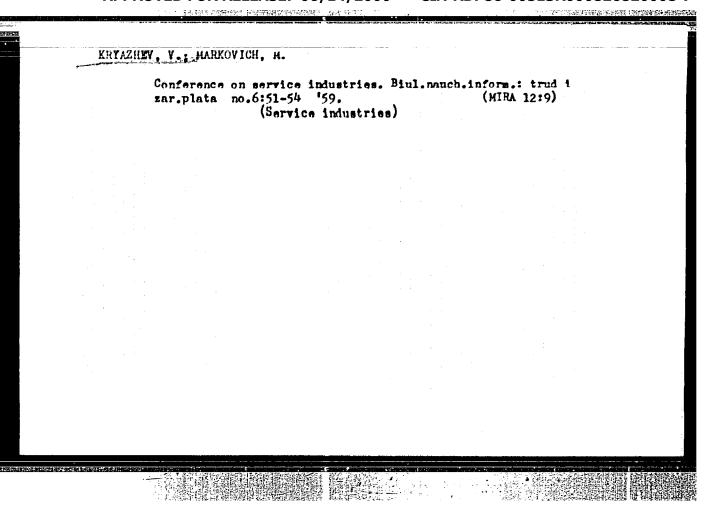


ERTAZHEV. V.: MARKOVICH, M.

Increasing the role of public dining in the rapid rise of workers' standard of living. Vop.ekon. no.12:117-121 D '58.

(Restaurants, lunch rooms, etc.)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"



KRYAZHEV, V., nauchnyy sotrudnik

Seasonal fluctuations in work can be overcome. Pron.koop. 13
no.11:10-11 M '59. (HIRA 13:3)

1. Hauchno-issledovatel'skiy inatitut truda.
(Seasonal variations(Economics))

KRYAZHEV, V.; MARKOVICH, M.

Growth of labor productivity potential in the service industries.

Sots.trud 5 no.2:77-82 F 60. (HIRA 13:6)

(Service industries--Labor productivity)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

KRYAZHEV, V.

Take-out restaurants and lightening women's work. Sots.trud 5 no.4: 131-135 Ap '60. (HIRA 13:9)

1. Sotrudnik Mauchno-issledovatel skogo instituta truda.
(Restaurants, lunchrooms, etc.)

Methods of studying the supply of the population with goods.
Biul. nauch. inform.: trud i zar. plata 4 no.3:31-37 '61.

(Retail trade) (Moscow—Grocory trade)

KAPUSTIH, Yo.I., kand.ekon.nauk; LAVROV,V.V.; RYUMIN, S.M.; KONSTARTINOV,
Yu.A.; PRAVDIH, D.I., kand.ekon.nauk; KTRILLOVA, R.I.; SIPVASHOVSKAYA,
H.M.; ARTHOPOV, B.F.; RYABROV, F.S.; POPOV, G.A.; DEMIYANUA, V.A.;
SMOINAR, I.M.; ACHARKAN, V.A., kond. yurid.nauk; BROHER, D.L.;
SHEPPUH, Ye.V.; KKYAZHEV, Y.G.; ALESHINA, F.Yu., kand. ekon. nauk;
KUZHETSOVA, M.P.; MARKOVICH, M.B.; BIBIK, L.F.; BUDAKINA, V., red.;
GRICORYEVA, I., mladshiy red.; CHEFELEVA, O., tekhn. red.

[Public concumption funds and improving the wolfare of the people in
the U.S.S.R.]Obshchestvenrye fondy i rost blagosostolaniia nareda v
SSSR. Moskva, Sotsokgiz, 1962. 222 p. (MIRA 15:6)

(Cost and standard of living)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

的一个大型,可以不同的现在分词,但是这种种的一种,但是是这种种的一种,可以不同的,但是是这种的一种,也是是这种的一种,可以不同的,但是是这种的一种,可以不同的,

KRYAZHEV, V.I., inch.

Regular pattern of change in air consumption and pressure with regularly distributed rarefaction. Nauch.dokl.vys.shkoly; gor.delo. no.4:111-116 '58. (MIRA 12:1)

1. Predstavleno kafedroy gornoy mekhaniki Severo-Kavkazskogo gornometallurgicheskogo instituta. (Mine ventilation)

KRYAZHEV. V.I.

Laws governing changes in the consumption and pressure of air in air ducts with continuously distributed leakage. Isv. vys. ucheb. sav.; tsvet. met. 2 no.3:13-23 159. (MIRA 12:9)

1. Severokavkasskiy gorhometallurgicheskiy institut, Kafedra gornoy mekhaniki.

(Mine ventilation)

KRYAZHEV, V.I., insh.

Classification of mine air ducts with continuous escapes and a method for the experimental determination of the aerodynamic qualities of air-splitting brattices. Izv.vys.ucheb.zav.; gor.shur. no.2: 68-72 160. (MIRA 14:5)

1. Severokavkazskiy gornometallurgicheskiy institut.
(Hine ventilation)

KRYAZHEV, V.I., insh.

Seeming stability of the interspace air circulation in certain air insulation barriers. Izv. vys. ucheb. zav.; (or. zhur. no.10:82-91 *60. (HIRA 13:11)

1. Severo-Kavkasskiy gornometallurgicheskiy institut. Mekomendovana kafedroy gornoy mekhaniki Severo-Kavkasskogo gornometallurgicheskogo instituta.

(Mine ventilation)

KRYAZHEV, V.I., inzh.

Kinetic energy lost in air streams at ventilation system exits. Isv. vys, ucheb. sav.; gor. zhur. no.12:141-148 '60.

(HIRA 14:1)

1. Severo-Kavkasskiy gornometallurgicheskiy institut. Rekomendovana kafedroy gornoy mekhaniki Severo-Kavkasskogo gornometallurgicheskogo instituta.

(Mine ventilation)

CHOPIKASHVILI, M.A.; KRYAZHEV, V.I.

Technological conference in the Northern Caucasus Institut of Mining and Metallurgy. Izv. vys. ucheb. zav.; tsvet. met. 3 no.3:160-162 '60. (MIRA 14:3) (Caucasus, Northern-Mining engineering-Congresses)

KRYAZHEV. V.I., insh.

Designing mine ventilation units. Bezop. truda v prom. 4 no.10: 11-12 0 '60. (MIRA 13:11)

1. Severo-Kaykasskiy gornometallurgicheskiy institut.
(Mine ventilation)

2. 11. 经基金条件 自由的特殊 (1995年)

KRYAZHEV, V.I., inzh.

Comparing the quality of modern mine fans for main ventilation systems. Ugol' Ukr. 5 no.1:22-24 Ja '61. (MIRA 14:1)

1. Severokavkasskiy gornometallurgicheskiy institut.
(Mine ventilation) (Fans, Mechanical)

KRYAZHEV, V.I.

Design of fan units for local ventilation. Izv. vys. ucheb. sav.; tsvet. met. 5 no.6:14-23 162. (MIRA 16:6)

1. Severokavkasskiy gornometallurgicheskiy institut, kafedra gornoy mekhaniki.

(Mine ventilation)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

KRJAZHEV, V.J. All Union In titute of Experimental Medicine, Moscow Experimental neurosis due to emotional shock
American Review of Soviet Medicine, New York, 1948, 5/3 (132-134)

Experiments were done on animals. An emotional state was brought about by causing a collision between two vitally important unconditioned reflexes: the food reflex and the defence reflex. This was done by passing an electric current through the meat and bread powder. The experiments induced a sudden onset of neuro-humoral and functional disterbances affecting the entire organism. The animals showed a sudden disappearance of conditioned reflexes, dyspnes, and tachycardia, increased sugar content in blood, a marked rise in body temperature, defecation and urination, tremor and rigidity of voluntary movements. The "emotional shock" which was produced brings about a chronic process of inhibition, accompanied by depressed nervous activity, and depressed neuro-humoral regulations. The emotional inhibition is highly stable and incapable of disinhibition, and causes a number of trophic disturbances (eczena, ulcers, epilation, body trenor, etc.). The emotional shock is also accompanied by a number of pathological phenomena like dissociation, negativism, perverse reactions, and cortical block of new conditioned reflex connections. Increased sensitivity of the cerebral cortex to emotional signals were also observed. This occurs independently of the type of nervous system shown by the animal. Emotional shock may be one of the main factors of neurosis and other nervous diseases, including neurodystrophic affections. Hoch - New York

SO: Excerpta Medica, Neurology and Psychiatry, Section VIII, Vol II No 12

KRYAZHEV, V. Ya.

Consecutive inhibition in monkeys in relation to type of the nervous system and training of the conditioned connections. Fiziol. zh. SSSR 37 no. 4:439-445 July-August 1951.(CIML 21:3)

1. Laboratory of the Physiology of Higher Nervous Activity of the former Sukhumi Branch of the All-Union Institute of Experimental Therapy.

KRYAZHEV, Vasiliy Yakevlevich; REZNICHENKO, P.N., redakter; POPRYADUKHIN, K.A., teknitichenkiy redakter.

[Higher nerveus activity of animals in social situations] Vysshaia nervnaia deiatel'nest' shivetnykh v usleviiakh ebshcheniis. Meskva, Ges. isd-ve med. lit-ry, 1955. 232 p. (MLRA 9:4) (Psychology, Physiological)

TO THE PROPERTY OF THE PROPERT

KRYAZHAV, V.Ya.; TSINDA, N.I.

Disorders of visual analysor activity following hilateral excision of the occipital lobes in dogs. Zhur.vys.nerv.deiat. 5 no.1:110-123 Ja-F 155. (MIRA 8:7)

1. Institut mosga Ministerstva zdravockhraneniya SSSR.

(OGCIPITAL LOBE, effects, of excisior,
on cerebral cortical visual area & on conditioned visual reactions)

(CERMBRAL CORTEX, physiology,
eff. of occipital lobe excis. on visual area)

(REFLEX, CONDITIONED,
visual reactions after excis. of occipital lobe in dogs)

KRYAZHEV, V.Ya.

Substitutive function of the second signal system. Fixiol.zhur. 41 no.3:305-313 My-Je 155. (HLRA 8:8)

1. Laboratoriya vosrastnoy fiziologii i fiziologii fizicheskikh uprashneniy Instituta fizicheskogo vospitaniya i shkol'noy gigiyeny. APN RSFSR, Moskva. (CEREBRAL CORTEX, physiology. signal systems, displaced funct. of 2nd signal system)

(REFLEX, CONDITIONED, displaced funct. of second signal system)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

KRYAZHEV, V.Ya.

Simultaneous study of specialized and general motor reactions in man by means of a "direflexometer.". Vop.psikhol.2 no.3:122-128 My-Je '56. (MIRA 9:9)

1. Institut fizicheskoge vospitaniya i shkol'noy gigiyeny Akademii pedagogicheskikh nauk RSFSR, Noskva. (Conditioned response) (Physiological apparatus)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

S/247/63/013/001/002/002 D296/D307

AUTHOR:

Kryazhev, V.Ya.

TITLE:

The influence of asphyxia upon the conditioned re-

flex activity in animals

PERIODICAL:

Zhurnal vysskey nervnoy deyatel nosti imeni I.P.

Pavleva, v. 13, no. 1, 1963, 121-130

TEXT: The damage caused to the mental functions of young children by asphyxia suffered in intrauterine life or during birth is well known. It is also an accepted fact that the brain of an adult is more sensitive to anoxis than that of a child. To study the influence of asphyxia upon the higher nervous activity the author exposed 6 cats to asphyxia in a hermetically sealed chamber. After a period of hypoxia lasting 20-60 minutes respiration ceased completely for 3-5 minutes, after which the animals were revived by artificial respiration. Before the experiment 5 positive and 5 inhibitory conditioned reflexes had been elaborated in these animals. Two of the cats were in the state of cestrus which had led to a com-

产生活动的人物的特殊的一种强烈的情况和自己的现在分词。 13人和约1527年

The influence of asphyxia ...

\$/247/63/013/001/002/002 D296/D307

plete disruption of all elaborated conditioned reflexes. It appeared that after the asphyxia all positive reflexes were not only fully preserved, but had become more intense, more precise and more stable. All types of inhibition such as differential inhibition, extinction summation, etc. had become more strictly localized and better defined. The transformation of stimuli, from positive to negative 'meaning and vice versa, could be achieved more easily than before the experiment. Asphyxia also had a beneficial effect upon the conditioned activity of animals in the state of oestrus. In these cats the predominating sexual drive had completely overridden all existing conditioned reflexes. The profound neurohumoral shock caused by the experiment fully restored the conditioned activity in these cats. There are 5 figures and 4 tables.

ASSOCIATION:

Otdel razvitiya mozga Instituta pediatrii AMN SSSR (Department of Brain Development, Institute of Ped-

iatrices, AMS USSR) .

SUBMITTED:

February 27, 1961

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000 CIA-RD

CIA-RDP86-00513R000826820008-7

KRYAZHEV, Yu., podpolkovnik; KALIBERDA, N., podpolkovnik

Special treatment in small units. Voen. vest. 42 no.5:48-52
Hy '63. (Chemical warfare)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7

KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

Synthesis of new derivatives of cellulose and other polysaccharides.

Part 17: Synthesis of graft copolymers of cellulose and polymethylvinylpyridine. Vysokom.soed. 3 no.12:1847-1852 D '61.

(MIRA 15:3)

1. Moskovskiy tekstil'nyy institut.
(Cellulose) (Pyridine) (Polymerization)

37lda8

s/190/62/004/005/025/026 B145/B101

5.3230

Kryazhev, Yu. G., Rogovin, Z. A.

TITLE:

AUTHORS:

New method of preparing block copolymers

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962, 783-784

TEXT: A method is described, which can be applied to a large number of monomers polymerizing according to a free-radical mechanism. It is based on the formation of free radicals during the reduction of diazonium salts by Cu^+ or Fe^{2+} : $O_2NC_6H_4N_2Cl + Fe^{2+} + nA \longrightarrow O_2NC_6H_4^-(A)_n^- + Fe^{3+} + Cl^- + N_2$; $O_2NC_6H_4^-(A)_n^- \longrightarrow ClN_2C_6H_4^-(A)_n^-$, $ClN_2C_6H_4^-(A)_n^- + Fe^{2+} + mB \longrightarrow -(B)_m^-C_6H_4^-(A)_n^- + Fe^{3+} + Cl^- + N_2$. The nitro group can be replaced by any group that C can be converted into an NH_2 group. A new type of block copolymer, in which several blocks are joined together at one point, can be synthesized by using an initial compound with several functional groups. The reaction can be conducted in aqueous solutions and emulsions, or in organic solvents C Card 1/2

New method of preparing block ...

S/190/62/004/005/025/026 B145/B101

at low temperatures (0-60°C). The size of the blocks can be varied considerably. The products are free of homopolymers. Block copolymers of acrylonitrile with 2-methyl-5-vinyl pyridine and of acrylic acid with acrylonitrile in different proportions were obtained by this method.

SUBMITTED:

December 28, 1961

Card 2/2

BR

ACCESSION NR: AT4017409

119

8/0000/63/000/000/0048/0054

AUTHOR: Kryazhev, Yu. G.; Polyakov, A. I.; Rogovin, Z. A.

TITLE: Synthesis of new derivatives of cellulose and other polysaccharides.

XXXIV. Synthesis of cellulose derivatives with nitrogenous heterocyclic rings.

SOURCE: Tsellyuloza i yeye proizvodny*ye, sbornik statey (Gellulose and its derivatives). Moscow, 1963, 48-54

TOPIC TAGS: cellulose, polysaccharide, cellulose derivative, nitrogenous cellulose derivative, heterocyclic cellulose derivative, sandwich polymer, grafted copolymer

ABSTRACT: The authors prepared the following five nitrogenous, heterocyclic cellulose derivatives: (C,H,O, (OH),L, ((C,H,N)) OH-1.

C.II,O₄ (OII), on Clos (OTa), on (OMa), on · [(C₁M₂N)+ OT3⁻], of

- [(C-H-N)+ OM1-J-m

CLII,Os (OII) and (NCalin) and

Card 1/2

L'II'O' (OM) " (MO'II')

in which Ms and Ts stand for the mesyl and tosyl esters of cellulose, respectively, by alkylating these esters with pyridine, piperidine and pyrrolidine and by the condensation of dialdehyde cellulose with the quaternary salt of 2-methyl-5-ethylpyridine. Alkylation and condensation reactions were also used to prepare grafted cellulose copolymers of the sandwich type with poly-2-methyl-5-vinyl-pyridine. The reaction conditions are described in detail and data on the chemical composition, degree of polymerization and cation exchange activity of the products are tabulated. Orig. art. has: 2 tables and 3 chemical equations.

ASSOCIATION: Hoskovskiy tekstil nyty institut (Moscow Textile Institute)

SUBMITTED: 24Apr62

DATE ACQ: 06Jan64

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 005

OTHER: 003

Card 2/2

ACCESSION NR: AT4017413

\$\,0000/63/000/000/0094/0099

AUTHOR: Kryazhev, Yu. G.; Rogovin, Z. A.; Chernaya, V. V.

TITLE: Synthesis of new derivatives of cellulose and other polysaccharides. XL. Preparation of a grafted cellulose-polymethylvinylpyridine copolymer without intermediary formation of a homopolymer

SOURCE: Tsellyuloza i yeye proizvodny*ye, sbornik statey (Gellulose and its derivatives). Moscow, 1963, 93-99

TOPIC TAGS: cellulose, polysaccharide, cellulose derivative, copolymer, grafted copolymer, cellulose copolymer, polymethylvinylpyridine

ABSTRACT: Grafted copolymers were synthesized from 2-methyl-5-vinylpyridine phosphate, chloride, sulfate, acetate, oxalate or citrate, their quaternary salts (prepared by reacting with dimethylsulfate) and cellulose which had been alkylated with 4-1 -hydroxyethylsulfonyl-2-aminoanisole and subsequently diazotized in the presence of FeCl₂, CuCl, Na₂S, K₂S₂O₅, Na₂S₂O₄, Na₂S₂O₃, Na₂SO₃ and CH₂O as the reducing agents, without intermediary formation of a homopolymer. The copolymers, depending on the particular vinylpyridine salt used, its concentration, the molar ratio between vinylpyridine and the acid used, and the particular reducing agent,

Card 1/2

contained up to 57.2% implanted methylvinylpyridine. The highest yield was obtained with the phosphate using FeCl3 and CuCl as reducing agents. The anion exchange ability of the copolymers reached 2.4 meq/g and fabrics made from them were strong and light-resistant. The length of the side chains in these copolymers is about 1/10 of that in the macromolecules of a grafted copolymer prepared by chain substitution. The preparative procedure is given in detail. Orig. art. has:

ASSOCIATION: Moskovskiy tekstil nyty institut (Moscow Textile Institute)

SUBMITTED: 16Ju162

DATE ACQ: 06Jan64

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 003

OTHER: 003

Card 2/2

8/0000/63/000/000/0150/0156

AUTHOR: Marupov, R.; Zhbankov, R. G.; Kryazhev, Yu. G.; Rogovin, Z. A.

TITLE: Infrared spectroscopic study of the structure of grafted copolymers of cellulose with poly-2-methyl-5-vinylpyridine

SOURCE: Tsellyuloza i yeye proizvodny*ye, sbornik statey (Cellulose and its derivatives). Moscow, 1963, 150-156

TOPIC TAGS: cellulose, cellulose copolymer, grafted copolymer, spectroscopy, infrared spectrum, poly-2-methyl-5-vinylpyridine

ABSTRACT: The authors compared the infrared spectra of cotton cellulose, 4-/3-hydroxyethylsulfony-2-aminoanisole, cellulose alkylated with 4-/3-hydroxyethyl- of sulfonyl-2-aminoanisole, a homopolymer of 2-methyl-5-vinylpyridine and a series of grafted copolymers of the latter and cellulose in the 2600-3800 cm⁻¹ (LiF), 700-2000 cm⁻¹ (NaCl) and 400-700 cm⁻¹ (KBr) bands. The copolymers were prepared by chain substitution and by the formulation of a macroradical via the dissociation of diazo groups presubstituted on a cellulose macromolecule. The infrared spectra were found to depend on the method of preparation and corroborated the existence of a chemical bond between the cellulose and the poly-2-methyl-5-vinylpyridine in Cord 1/2

their copolymers. Orig. art. has: 6 graphs and 1 table.

ASSOCIATION: Institut fisiki AM BSSR (Institute of Physics, AM BSSR); Moskovskiy tekstil'ny*y institut (Moscow Textile Institute)

SUBMITTED: 21Jan63 DATE ACQ: 06Jan64

SUB CODE: OC, MT

NO NEY SOY: 006

Card 2/2

S/063/63/008/001/001/001 A057/A126

AUTHORS:

Kryazhev, Yu. G., Rogovin, Z. A.

TITLE:

Synthesis of grafted copolymers of acrylonitrile with 2-methy1-5-

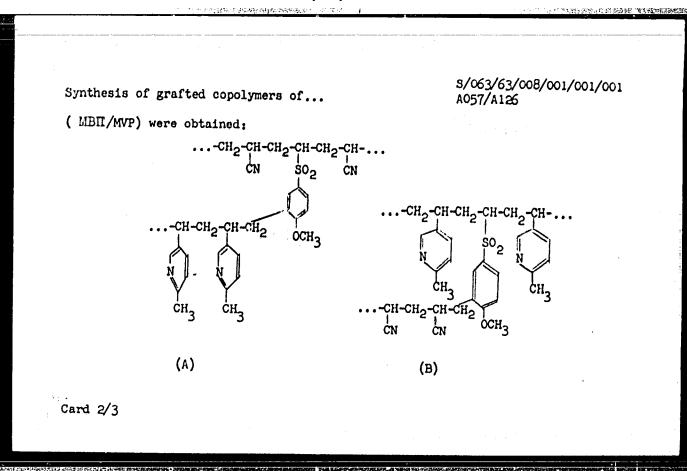
-vinylpyridine

PERIODICAL: Zhurnal vsesojuznogo khimicheskogo obshchestva imeni D. I. Mendele-

yeva, v. 8, no. 1, 1963, 118 - 119

TEXT: The synthesis of grafted copolymers of polyacrylonitrile was developed without simultaneous formation of homopolymers. The authors reported on the new synthesis of block copolymers of acrylonitrile in an earlier paper (Vysokomol. soyed., v. 4, no. 5, 1962, 783). The present method is based on the fact that the oxidation of aromatic amines and the reduction of aromatic diazocompounds occurs frequently with formation of free radicals which are able to initiate polymerization of vinyl monomers. Aromatic aminogroups were introduced into the polyacrylonitrile and poly-2-methyl-5-vinylpyridine by copolymerization of the corresponding monomer with 4-vinylsulfonyl-2-aminoanisole (BCA /VSA). Thus two grafted copolymers of acrylonitrile (AH/AN) and 2-methyl-5-vinylpyridine

Card 1/3



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

Synthesis of grafted copolymers of ...

S/063/63/008/001/001/001 A057/A126

VSA was synthesized from the sulfate ester of 4-\$\beta\$-hydroxyethylsulfonyl-2--aminoanisole and dissolved in AN and MVP. The block-copolymerization was carried out at 60°C in the presence of azodinitrile isobutyrate as initiator during 10 hrs. The subsequent diazotization of the aromatic aminogroups of the obtained copolymers was carried out with an aqueous solution containing 0.5% NaNO3 and 0.5% HCl at 0 + 5°C during 20 min. Afterwards the polymer was washed and added to the solution of the corresponding monomer (25% solution of MVP in acetic acid or 7% solution of AN in water, respectively) containing the calculated quantity of FeSO4.7H2O. The mixture was held for 3 hrs at 60°C. No homopolymers could be separated from the grafted copolymers obtained. The latter are soluble in dimethylformamide, There are 2 tables.

ASSOCIATION: Moskovskiy tekstilnyy institut (Moscow Institute of Textiles)

SUBMITTED: June 10, 1962

Card 3/3

ACCESSION NR: APLO32568

8/0190/64/006/004/0672/0676

AUTHORS: Kryazhov, Yu. G.; Rogovin, Z. A.

TITLE: Synthesis of block copolymers of 2-methyl-5-vinylpyridine

SOURCE: Vy*sokomolek. soyedin., v. 6, no. 4, 1964, 672-676

TOPIC TAGS: polymer, polymerization, alkylvinylpyridine, vinyl pyridine, diazonium salt, acrylonitrile, methacrylic acid, styrene, copolymerization, homopolymer formation

ABSTRACT: Block-copolymerization of 2-methyl-5-vinylpyridine (MVP) with acrylonitrile, methacrylic acid, and styrene was conducted by the authors' method (Vy*sokomolek. soyed., 4, 783, 1962). The first step consisted of polymerizing MVP (initiated by a diazonium salt of p-aminoacetanilide) in order to obtain a Poly-NVP with terminal aromatic aminogroups. The average molecular weight of the Poly-NVP, determined from the content of the aromatic terminal groups was 16.500, as against 8.000 obtained by the viscosimetric technique. In the synthesis of the block-copolymer with acrylonitrile (AN), the Poly-NVP was dissolved in a 7% aqueous solution of AN. The reaction was conducted at 600 (for 1 hour) in the

Cord 1/2

ACCESSION NR: APLO32568

presence of 0.5% iron sulfate. Two fractions of the copolymer were obtained, one insoluble in 30% acetic acid and alcohol, and the other one soluble in both. The next copolymer was synthesized by dissolving Poly-NVP in a 30% aqueous solution of methacrylic acid (MA) under identical conditions. A copolymer composed of 28% Poly-NVP and 72% Poly-NA proved soluble in 98% acetic-acid, 0.1 normal NaOH, and NCL. It was insoluble in alcohol and benzol. The copolymerization of Poly-NVP and styrene was conducted for 4 hours under similar conditions in the presence of 3% of the OS-20 emulsifier. A copolymer consisting of 33% Poly-NVP and 67% styrene was isolated. M. Ya. Rolev participated in the experimental work. Orig. art. has:

ASSOCIATION: Hoscovskiy tekstil nywy institut (Hoscow Textile Institute)

SUBMITTED: 25Apr63

DATE ACQ: 11Mayou

ENCL: 00

SUB CODE: GC

NO REF SOV: 002

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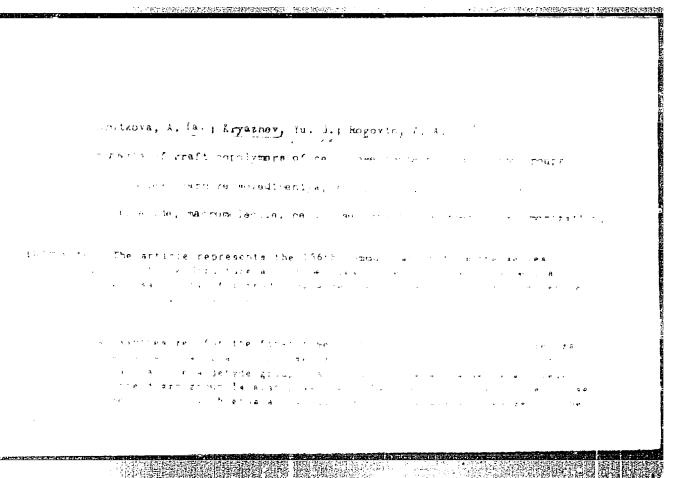
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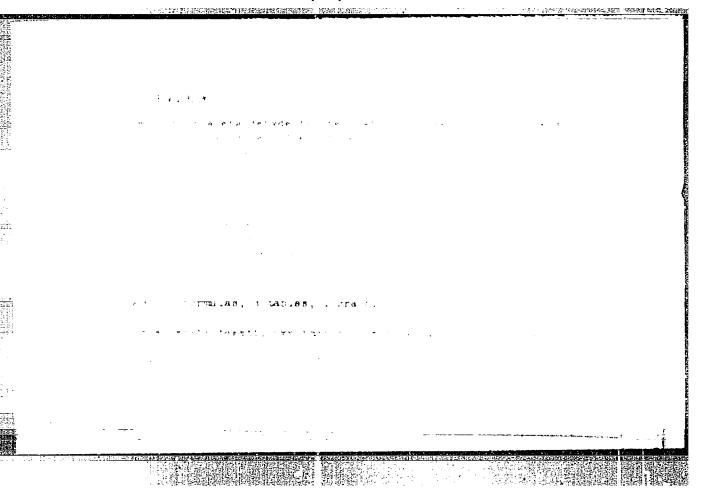
MASAIDOVA, G.S.; KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

Synthesis of triple CEC bond containing graft copolymers of cellulose. Vysckom.sced. 6 no.8:1540 Ag *64. (MIRA 17:10)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7





GULINA, A.A.; MARUPOV, R.; ZHBANKOV, R.G.; KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

Study of the structure of cellulose-polystyrene copolymer by infrared spectroscopy. Vysokom. soed. 6 no.11:1997.2001 1 64 (M.RA 18:2)

1. Moskovskiy tekstil'nyy institut i Institut fiziki AN BSSR.

ACCESTION NR: AP4040526

8/0080/64/037/006/1334/1340

AUTHOR: Kusnetsova, V. A.; Kryazhev, Yu. G.; Rogovin, Z. A.; Toroptseva, T. N.

TITLE: Synthesis of graft copolymers of 2-methyl-5-vinylpyridine, acrylic, or methacrylic acid

SOURCE: Zhurnal prikladnox khimii, v. 37, no. 6, 1964, 1334-1340

TOPIC TAGS: copolymer, graft copolymer, pyridine. 2-methyl-5-vinyl-, acrylic acid, methacrylic acid, poly(vinyl chloride), ftorion, polyethylene, polycaprolactam, ion exchange material, current conductive material, chemically stable material, free radical polymeri-zation

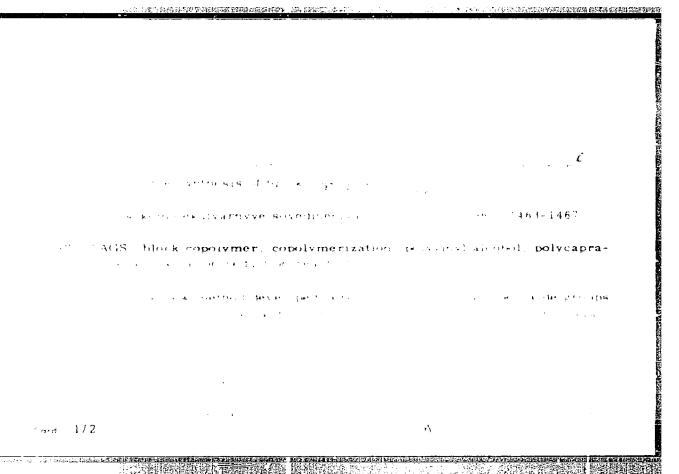
ABSTRACT: Graft copolymers of chemically stable water-repellant polymers with electrically dissociating monomers have been synthesized. Pres radical graft copolymerization of 2-methyl-5-vinyl-pyridine, acrylic, or methacrylic acid on swollen films, fibers, and fabrics of poly(vinylablioride) ftorlon, polyethylene, or polycaprolactam yielded materials with an ion-exchange capacity of Cord 1/2

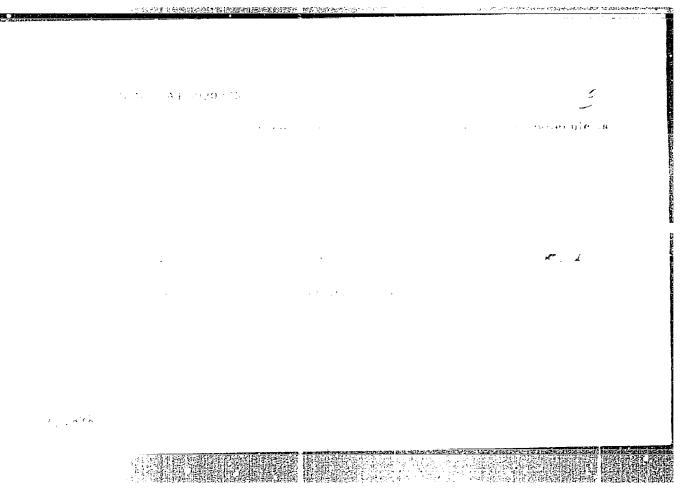
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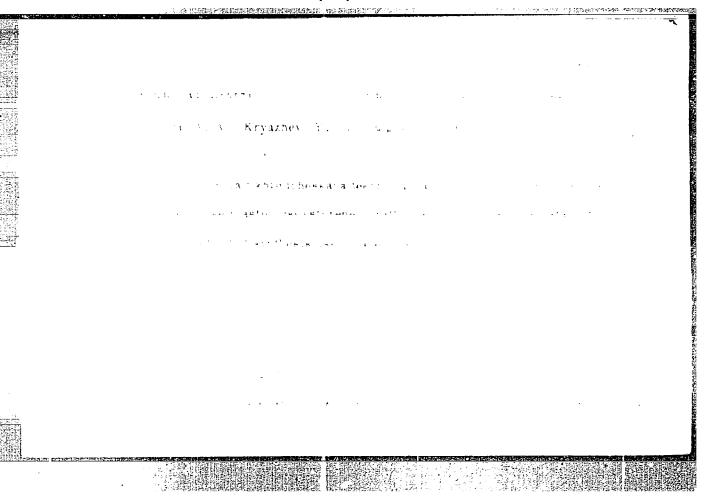
VOLGINA, S.A.; KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

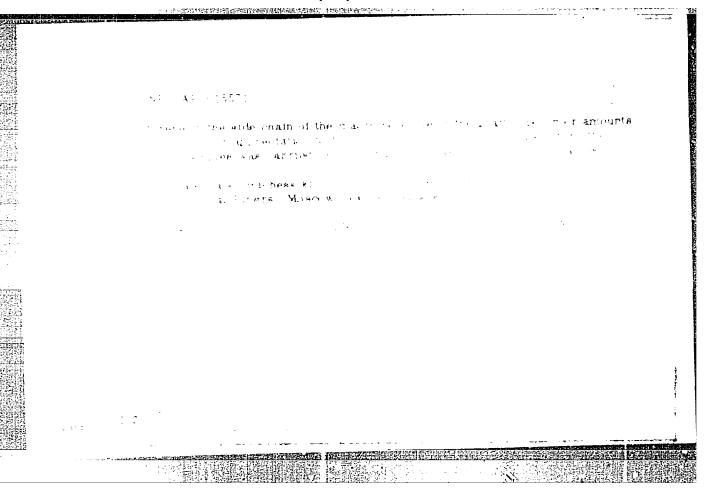
Synthesis of telemers of acrylic acid and their use in the production of graft copolymers of cellulose with polyacrylic acid with predetermined length of a side chain. Vysokom.soed. 7 no.7:1154-1158
J1 105. (MIRA 18:8)

l. Moskovskiy tekstilingy institut.









ACC NR: AP5025034 (b) SOURCE GODE: UR/0286/65/000/016/0084/0084

AUTHORS: Rogovin, Z. A.; Kryashev, Yu. G. Kd.

ORG: none

TITLE: Method for obtaining graft copolymers of cellulose with synthetic polymers. Class 39, No. 1739h6 'n

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 84

TOPIC TAGS: graft copolymer, cellulose, polymerization, copolymerization, polymer

ABSTRACT: This Author Certificate presents a method for obtaining graft copolymers of cellulose with synthetic polymers by radical graft copolymerization. The method involves using decomposition products of hydroperoxide groups as the initiator. To introduce the hydroperoxide into the cellulose, aldehyde groups are added to the latter prior to polymerization.

SUB CODE: 07/

SUBM DATE: 02Apr63

nw Card 1/1

UDG: 678.7-13.676.1:677.494.7-13.002.2

L 14045-66 ENT(1)/ENA(1)/ENT(m)/ENP(1)/T/ENA(h).2 NA SOURCE CODE: May/Jr/RM E: UR/0001/65/000/012/8130/8130 ACC NR: AR5020058

AUIHOR: Gal'braykh, L.S.; Kryazhev, Yu.G.; Livshits, R.M.

ORG: none

TITIE: Developing new types of graft copolymers ()

SOURCE: Ref. zh. Khimiya, Abs. 128849

REF SOURCE: Sb. Khimiya i tekhnol. proizvodn. tsellyulozy. Vladimir, Verkhne-Volzhsk. kh. 1zd-vo, 1964, 241-249

TOPIC TAGS: copolymer cellulose, graft copolymer

TRANSIATION: A study of cellulose oxidation by salts of quadrivalent cerium for synthesizing graft polymers has shown that a macroradical is formed at the result of the pyran circle rupture. During the synthesis of methylcellulose/graft polymers the reaction takes place if there is ~ 1 glycol group to 10 glycol links, and it does not occur at Y~200. The use of quadrivalent cerium and trivalent manganese permits the grafting in an aquous medium. The homopolymerization of the grafter monomer may be avoided by using the latter in a vaporized state. A study of graft copolymerization of cellulose esters containing aromatic aminogroups under the effect of a 5-valent vanadium has shown that for each mole of the aminogroup, 2 moles of vanadium acids are expended and that the copolymer contains nitrogroups. Grafting of monomers with reducing powers may be accomplished, e.g., by the introduction into the cellulose of

Card 1/2

L 14045-66

ACC NR. AR5020058

peroxide groups which can be obtained, in particular, by the method of introducing aromtic diazogroups with a subsequent destruction by Fe²⁺ ions. A more practical method is to introduce into the cellulose aldehyde groups (Y to 5) and to oxidize them to peracid by hydrogene peroxide. For synthesizing graft polymers, use may be made of cellulose polymeranalogous conversion reactions or of a cellulose graft component, e.g., graft polymers and polyacrylic hydroxamic acid. The latter is obtained by processing a cellulose graft copolymer with polymethylmetacrylate of either a water or alcohol solution of hydroxilamine. The grafting of certain monomers to cellulose gives new properties to the latter: better resistance to bacteria, better heat resistance, lower combustibility, water resistance, wool-like properties, lesser crumpling, etc. Grafting can also be used for plasticizing cellulose derivatives. Q. Petrzhik.

SUB CODE:

BVK

CIA-RDP86-00513R000826820008-7" **APPROVED FOR RELEASE: 06/14/2000**

<u>l 18394-66</u> Ent(m)/Enp(j)/T ww/RH

ACC NR: AP6003408

SOURCE COUR: UR/0190/66/008/001/0020/0025

AUTHORS: Garbuz, N. I.; Zhbankov, R. G.; Korotkova, A. Ya.; Kryazhov, Yu. G.; Rogovin, Z. A.

ORG: Institute of Physics, AN BSSR (Institut fiziki AN BSSR); Moscow Textile Institute (Moskovskiy tekstil'nyy institut)

TITLE: Study of carbonyl-substituted collulose graft copolymors by means of IR spectroscopy (189th report in series "Investigation of Structure and Properties of Collulose and Its Derivatives")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 20-25

TOPIC TAGS: graft copolymer, cellulose plastic, IR spectroscopy / IK-10 IR spectrophotometer

ABSTRACT: IR spectra of carbonyl-substituted graft copolymers of cellulose and polymethylvinylketone (I), of polymethacrolein (II), and of poly-2-methyl-5-vinyl-N-ethanalpyridinium chloride have been investigated. Preparation of the graft copolymers has been described earlier by A. Ya. Korotkova and Z. A. Rogovin (Vysokomolek. soyed., 7, 1571, 1965); and by A. Ya. Korotkova, Yu. G.

Card 1/2

UDC: 661.728.89+678.01:53

L 18394-66

ACC NR: AP6003408

Kryazhev, and Z. A. Rogovin (Vysokomolek. soyed., 6, 1980, 1964). The spectra were obtained on a double beam spectrophotometer IK-10 in the regions 2600—3800 cm⁻¹ (Lif prism), 700—1800 cm⁻¹ (NaCl prism), and 400—700 cm⁻¹ (KBr prism). Carbonyl absorptions in these regions (typical for the investigated graft copolymers and homopolymers) are described and discussed. Mechanisms of methylpolymers and homopolymers are described and discussed. Mechanisms of methylpolymers and methacrolein polymerization during the formation of graft polymers of cellulose with (I) and (II) have been investigated. Orig. art. has: 1 table, 5 figures, and 4 structures.

SUB CODE: 07/ SUBH DATE: 04Feb65/ ORIG REF: 006/ OTH REF: 003

Card 2/2 mc

KRYAZHEVA, L., mladshiy nauchnyy sotrudnik

Methods of forecasting the numbers of grain carabids. Zashch. rast. ot vred.i bol. 10 no.9:44-45 165. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy.

KRYAZHEVA, Lyudmila Pavlovna; REUTSKAYA, O.Ye., red.; BARANOVA, L.G., tekhn. red.

[Ground beetles] Khlebmaia zhuzhelitsa. Leningrad, Sel'khozizdat, 1962. 30 p. (MIRA 15:6) (Ground beetles) (Grain—Diseases and pests)

ERYAZHEVA, O. (Gatchina, Leningradskoy oblasti).

Street of the motal workers. Prom.koop. no.11:28-29 H '57. (MIRA 10:12)

(Gatchina--Housing)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

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SOKOLOVA, V.A., KRYAZHEVA, V.A.; NITISHINSKAYA, A.I.

New method of delustring acetate silk. Khim.volok. no.3:37-39 '62. (MIRA 16:2)

1. Serpukhovskiy savod.

(Rayon)

进步的。如此的数据专门的**在数据**通知的图式程序,结合的一些

一、《一、古母和子文学》使于中国非洲等级数据的特殊数别

ASTAR YEV, G.V.: KRYAZHAVA, Yo.G.

A holder for the ureter. Nov.khir.arkh. no.3:107-108 My-Je 159. (HIRA 12:10)

1. Mauchno-issledovatel skiy institut eksperimental noy khirurgicheskoy apparatury i instrumentov Ministerstva zdravookhraneniya SSSR.

(SURGICAL INSTRUMENTS AID APPARATUS)

DUNAEVSKIY, L.I.; ASTAF'YEV, G.V.; KRYAZHEVA, Ye.G.

Guide for the retrograde introduction of catheters. Urologiia 26 no.2:66-67 '61. (CATHETERS)

ROGOVIN, V.Ye.; ASTAF'YEV, G.V.; KRYAZHEVA, Ye.G.

New self-retaining surgical vaginal speculum. Akush.i gin.
37 no.2:103-105 F 161. (MIRA 14:3)

l. Is Mauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev).
(SPECULIM (MEDICINE))

ASTAF'YEV, G.V.; KRYAZHEVA, Ye.G.; ROGOVIN, V.Ye., zasluzhennyy vrach RSFSR [deceased]

New insturments for obstetrical and gynecological practice. Akush. i gin. 38 no.5:107-110 S-0 '62.

(MIRA 17:11)

1. Iz nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev).

KRYAZHEVSKIY, A., nagrevalishchik **1400年前第一**年度17年度17年度 The best helper. Sov. profsolusy 6 no.4:74-75 Ap 358. (MIRA 11:5) 1. Chelyabinskiy kusnechno-pressovyy zavod. (Chelyabinsk--Sheet-metal work)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826820008-7"

The state of the s

8(3) SOV/105-59-10-10/25

AUTHORS: Bershadskiy, V. L., Kalashnikov, V. K., Kryazhevskiy, V. V.,

Popov, G. A. (Moscow)

TITLE: The Electric Drive of the Screws of the Atomic Ice-breaker

"Lenin"

PERIODICAL: Elektrichestvo, 1959, Nr 10, pp 50-56 (USSR)

ABSTRACT: The atomic ice-broaker "Lenin" is equipped with a nuclear

fuel-driven power system. Steam turbines serve as prime mover. Power is electrically transmitted from the turbines to the screws.

The ice-breaker has a water displacement of 16,000 t, three screws, an over-all length of 134 m, a beam of 27.6 m, a turbine

power of 44,000 hp, a top speed of 18 knots; the number of revolutions of the middle screw is 195 rpm at top speed, that of the outside screws is 215 rpm (Ref 1). The screws are driven with

direct current according to the motor-generator system. The three electric screw motors are fed by four turbogenerator units of

constant number of revolutions. A voltage of 1,200 v, unprecedented in shipbuilding, is used for the screws. The electric motor of the

middle screw has two armatures with 9,800 hp each. The electric

Card 1/3 motors of the outside screws have two armatures with 4.900 hp each.

The Electric Drive of the Screws of the Atomic Ice-breaker "Lenin"

SOV/105-59-10-10/25

Further, they are artificially ventilated and equipped with an air cooler. The generators have two armatures with 1,920 kw and 600 v each, 595 rpm, self-ventilation, and an air cooler. Each turbine is connected with two generators through a gear. The two middle armatures of one generator are connected in parallel. The electric motor of the screw is fed by this latter generator, and the electric motors of the outside screws are fed by the armatures of the second generators of the turbine unit. Hence, each turbine unit feeds simultaneously the three electric motors of the screws. (Fig 1). Figure 2 shows and describes the circuit diagram of the main circuit of the middle electric motor. The armatures of a screw motor together with their generators form two independent circuits. The control is described, and figure 4 shows that of the medium electric motor. The rated constants of the main machines are chosen for the most difficult mode of operation, i.e. that in mooring in which the ship is immobile with respect to the water (Curve 3 on Fig 3). The screws are operated by remote control. Due to the fact that the rotary amplifiers serve as exciters, the control devices could be made of mag-slips.

Card 2/3

The Electric Drive of the Screws of the Atomic Ice-breaker "Lenin"

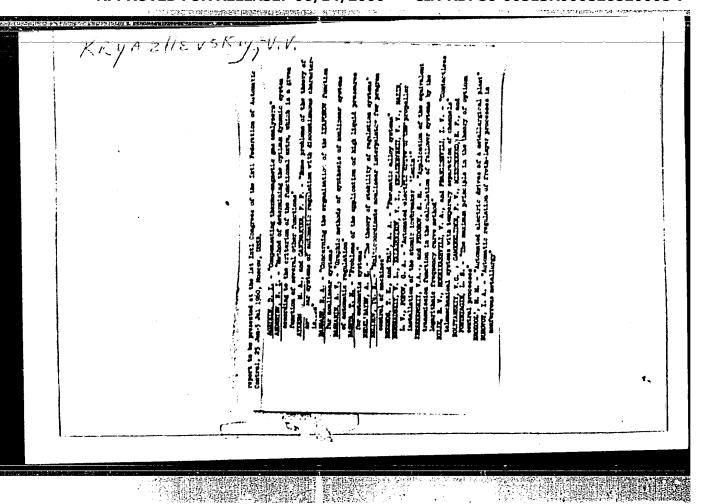
SOV/105-59-10-10/25

Thus, the design was simplified and the control devices became much more reliable. Figure 5 shows such a control device. There are 6 figures, 1 table, and 2 Soviet references.

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Card 3/3



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