

Experience of a Plant (Cont.)

355

Senkevich, V. F.; Malygin, Yu. N.; Malygina, L. V. Hardening 37KhS Steel Parts in Hot Media

41

The investigation on which this article is based made it possible to establish optimum conditions for fused-alkali heat treatment of threaded machine parts made of 37KhS steel. The advantages of this method of hardening are demonstrated. This method has already been put into practice at the Urals RR.-car Plant, where a mechanized line for isothermal bright hardening of articles made of 37KhS steel has been set up.

Sagaradze, V. S. Kotel'nikova, R. I. Properties of G13 Manganese Steel as Determined by Chemical Composition and Heat Treatment

54

As a result of the author's investigations: (1) optimum conditions for heat treating parts made of G13L steel were established (2) a method for quality control was proposed (3) the effect of various elements on the properties of this steel was determined, and (4) a table of microstructures was developed

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Experience of a Plant (Cont.)

355

for determining and controlling the quality of heat treatment. There are 4 Soviet references

Khlopotova, N. I. Heat Treatment and Quality-control Methods for Castings Made of 32Kh06L Steel

70

The author concludes that the most favorable combination of strength and plastic properties of 32Kh06L steel is obtained by hardening at 880° C. with subsequent water quenching.

Kotel'nikova, R. I. Hydrogen Embrittlement in Springs and Ways of Preventing it

76

The author investigates hydrogen embrittlement caused by pickling and electro-galvanizing. She states that in the first case embrittlement can be prevented by using "ChM" additive consisting of a foaming agent and a solvent in the pickling solution. In the second case it can be eliminated by tempering at 150-200° C.

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Experience of a Plant (Cont.)

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Bocharov, S. P.; Balbasheva, N. M. The Causes of Breakage in Bronze Parts and its Elimination

80

The authors describe methods used by the Urals RR.-car plant for eliminating porosity and leakage defects revealed by hydraulic pressure tests.

Zonkov, M. F. Attachment for the Rockwell Hardness Tester for Computing Errors in Hardness Measurement

82

The author describes his invention for computing hardness-measurement errors arising from the unsatisfactory character of the bearing surface of the tested part.

Card 5/5

AVAILABLE: Library of Congress

GO/gmp  
6-18-58

GORIN, K.; MOLCHANOVA, L.; TASHMAN, L.

Opportunities to economize are not being used. Fin. SSSR 21 no.3:49-51  
Mr '60. (MIRA 13:3)

1. Ispolnyayushchiy obyazannosti nachal'nika otdela Ministerstva finansov Azerbaydzhanskoy SSR (for Gorin). 2. Starshiy ekonomist Ministerstva finansov Azerbaydzhanskoy SSR (for Molchanova) 3. Starshiy inzhener Azerbaydzhanskoy kontory Stroybanka (for Tashman).  
(Azerbaijan--Oil well drilling--Finance)

TASHMATOV, K. T "Influence of Lowered Barometric Pressure and Adaptation to it on Phosphorylation Processes in the Brain of Guinea Pigs During Ionizing Radiation." Guinea pigs irradiated with 800 r and acclimatized to lowered barometric pressure (10,000 meters) did not show any significant decrease in brain ATP content.

candidate dissertation listed in Meditsinskaya radiologiya, no. 7, 1964. The article did not state specifically what degree was awarded. The annotated titles deal with studies on radiation physiology, radiation biochemistry, combined trauma and the influence of radiation on regenerative processes, radiation microbiology and immunology, and radiation pharmacology.

USSR/Cultivated Plants - Subtropical. Tropical.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15822

Author : L.T. Tashmatov

Inst : -

Title : Crossgrafting Low Yielding Lemon Trees for Ditch Cultures.  
(Pereprivivka malourozhaynykh derev'yev limona v uslo-  
viyakh transheyroy kul'tury).

Orig Pub : Sots. s.kh. Uzbekistana, 1957, No 4, 72-73.

Abstract : Experiments were made in the kolkhozes of Uzbekistan in 1953 to test the efficiency of crossgrafting the low yielding Novogruzinskiy lemon trees with the high yielding Chinese lemon (Meyer's). The best method turned out to be grafting in the bark (with nearly 100% viability), the best time was from the beginning of vegetation to 10-15 June; the yield of Novogruzinskiy lemon trees in whose bark Chinese lemon graftings were inoculated was considerably increased.

Card 1/1

**TASHMATOV, L.T.**

Use of jujube fruits for preserving. Kons.i ov.prom. 15 no.1:  
15-16 Ja '60. (MIRA 13:5)

1. Samar'kandskiy filial nauchno-issledovatel'skogo instituta  
sadovodstva, vinogradarstva i vinodeliya imeni R.R.Shredera.  
(Jujube (Plant)--Preservation)

NATSVIN, A.V.; CHEREVATENKO, A.S.; VASIL'YEV, K.V.; PROTOSEVICH,  
L.A.; CHERNOVALOVA, V.P.; LEPLINSKAYA, A.A.; PAVLOV, A.K.;  
~~TASHMATOV, L.T.~~; SMIRNOV, P.K.; SOLDATOV, P.K.; KHAYDARKULOV, G.I.;  
TSEYTLIN, M.G., kand. sel'khoz.nauk; KUZNETSOV, V.V., kand.  
sel'khoz.nauk, otv. red.; KRIVONOSOVA, N.A., red.; SOROKINA, Z.I.,  
tekhn. red.

[Best fruit and grape varieties for drying and preserving in the  
southwestern regions of Uzbekistan] Luchshie sorta plodovykh i  
vinograda dlia sushki i konservirovaniia v iugo-zapadnykh ob-  
lastiakh Uzbekistana. Tashkent, MSKh UzSSR, 1961. 162 p.  
(MIRA 15:7)

1. Institut sadovodstva i vinogradarstva im. R.R.Shredera. Sa-  
markandskiy filial. 2. Samarkandskiy filial Instituta sadovod-  
stva i vinogradarstva im. R.R.Shredera (for all except Kuznetsov,  
Krivonosova, Sorokina).

(Uzbekistan--Fruit--Varieties)  
(Uzbekistan--Grapes--Varieties)



TASHMATOVA, R. Yu., Cand Med Sci -- <sup>*fever*</sup> "Rheumatism in children according to data  
of the pediatric clinic of ~~the~~ Kirgiz State Medical Institute." Alma-Ata, 1960  
(Kazakh State Med Inst). (KL, 1-61, 211)

~~TASHMUKHABEDOV, Tulyagan Rasulevich; BICHEROVA, A., red.; ABBASOV, T.,~~  
tekh. red.

[New way of working a thick flat coal seam] Novyi sposob raz-  
rabotki moshchnogo pologopadaushchego ugol'nogo plasta.  
Tashkent, Gosizdat UzSSR, 1963. 71 p. (MIRA 1619)  
(Angren Basin—Coal mines and mining)

**KOSHTOYANTS, Kh.S.; TASHMUKHAMEDOV, B.A.**

**Features of the contraction of the byssus muscle retractor in  
Mytilus. Fiziol.zhur. SSSR 45 no.7:826-829 J1 '59.**

(MIRA 13:4)

**1. From the department of animal physiology, M.V. Lomonosov Uni-  
versity, Moscow.**

(MUSCLES) (MUSSELS)

KOSHTOYANTS, Kh.S.; TASHNUKHAMEDOV, B.

Is  $\gamma$ -aminobutyric acid a specific agent inhibiting the bioelectric activity of stretch receptors in arthropods? Fiziol. zhur. 46 no.12:1502-1504 D '60. (MIRA 14:1)

1. Kafedra fiziologii zivotnykh Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.  
(BUTYRIC ACID) (NERVOUS SYSTEM—ARTHROPODA)  
(ELECTROPHYSIOLOGY)

TASHMUKHAMEDOV, B., KOSHTOYANTS, Kh. S., and KOKINA, N. H.

"On the Action of Some Pharmacological Factors upon Nerve-free cells  
(Infusoria) and upon the Cells of Stretch Receptors in Arthropods."

Paper to be presented at Symposium v. of the First Intl. Conference on  
Pharmacology, Stockholm, 22-25 August 1961.

Authors address: USSR, Moscow, Leninskie Gory, State University of Moscow.

TASHMUKHAMEDOV, B.

Comparative pharmacological analysis of the sensitivity of stretch receptors to chemical agents. Zhur. ob. biol. 22 no.2:144-145 Mx-  
Ap '61. (MIRA 14:5)

1. Department of Animal Physiology, Moscow State University.  
(NERVOUS SYSTEM—ARTHROPODA) (PHARMACOLOGY)

TASHMUKHAMEDOV, B.

Neuropharmacology of insects. Dokl. AN SSSR 143 no.6:1466-  
1469 Ap '62. (MCRA 15:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
Predstavleno akademikom L.S.Shtern.  
(NERVOUS SYSTEM--INSECTS) (PHARMACOLOGY)

TASHMUKHAMEDOV, B.

Characteristics of abdominal stretch receptors in insects.  
Zhur. ob. biol. 23 no.1:76-80 Ja-F '62. (MIRA 15:3)

1. Department of Animal Physiology, State University of Moscow.  
(INSECTS—PHYSIOLOGY)



LISOVSKAYA, N.P.; TASHMURAMEDOV, B.A.

Connection between "transport" adenosinetriphosphatase and phospho-  
protein metabolism in the cortical cells of rabbits. Dokl. AN SSSR  
163 no.6:1503-1506 Ag '65. (MIRA 18:8)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Submitted October  
21, 1964.

SOURCE: Biofizika, v. 10, no. 4, 1965, 699-701

TOPIC TAGS: phosphorus, ion source, protein, biologic metabolism, radioisotope

ABSTRACT: Two series of experiments were performed to study the rate of synthesis of phosphorus in phosphoproteins in sections of rat cerebral cortex under different con-

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CIA-RDP86-00513R001755020020-9"

SUBMITTER: 00Aug64

ENCL: 00

SUB CODE: LS

*AC*  
Card 3/3

**TASHMUKHAMEDOV, E.,** starshiy prepodvatel' kursa organizatsii farmatsevticheskogo dela.

Some information on the supply of drugs in the area of the present Uzbek S.S.R. before the Great October Socialist Revolution. Report No.1: Brief information on Uzbek popular medicine and pharmacognosy before the union of Turkmenistan with Russia. Apt.delo 7 no.4:69-72  
Jl-Ag '58 (MIRA 11:9)

1. Iz Tashkentskogo farmatsevticheskogo instituta (nauchnyy rukovoditel' - prof. P.L. Senov).  
(UZBEKISTAN--MEDICINE, POPULAR)

TASHMUKHAMEDOV, F.R.

Effect of vitamin B<sub>12</sub> on immunogenesis in experimental immunization with tetanus anatoxin. Zhur. mikrobiol., epid. i immun. 42 no.1:37-41 Ja '65. (MIRA 18:6)

1. Tashkentskiy institut vaktain i syvorotok.

TASEMUKHAMEDOV, I., aspirant

Studying prescription writing in pharmacies in the Uzbek S.S.R.;  
report no.2. Apt.delo 5 no.5:8-13 8-0 '56. (MLBA 9:11)  
(UZBEKISTAN—PRESCRIPTION WRITING)

TASHMUKHAMEDOV, Irkin

Some information on the status of medical service within the territory of the present Uzbek S.S.R. before the Great October Socialist Revolution. Report No.2. Apt.delo 8 no.3:69-73 My-Je. '59. (MIRA 12:8)

1. Iz kafedry organizatsii farmatsevticheskogo dela (i.o.zav. - starshiy преподаvatel' Tashmukhamedov Irkin, nauchnyy rukovoditel' - prof.P.L.Senov) Tashkentskogo farmatsevticheskogo instituta. (UZBEKISTAN--PHARMACY)



TASHMUKHAMEDOV, I.

Study of the individual prescription in the pharmacies of Tashkent  
and of Tashkent Province in the Uzbek Republic. Apt. delo 10 no.6:  
14-19 N-D '61. (MIRA 15:2)  
(TASHKENT PROVINCE\_\_PRESCRIPTION WRITING)

TASHMUKHAMEDOV, I.; ZAKHAROV, V.A.; KARAKOZOVA, A.A.; STEPANOVA, M.Ya.;  
AMEZZHANOV, A.

Prescriptions filled at pharmacies of the therapeutic institutions  
of Tashkent. Apt. delo 14 no.5:72-76 S-O '65.

(MIRA 18:11)

1. Tashkentskiy farmatsevticheskiy institut.



cause of an increased yield of the free radicals which initiate the homopolymeriza-

NO. REF. SOV. 005

OTHER: 004

L 16171-66 EWT(m)/EFF(n)-2/EWP(j)/T/EWA(h)/EWA(l)

WW/CG/RM

ACC NR: AF5025431

SOURCE CODE: UR/0291/65/000/004/0040/0044

AUTHOR: Usmanov, Kh. U.; Tillayev, R. S.; Tashmukhamedov, S. A.

ORG: Tashkent State University im. V. I. Lenin (Tashkentskiy gosuniversitet)

TITLE: Radiation grafting<sup>9</sup> of styrene and methylmethacrylate on chlorinated poly(vinyl chloride)

SOURCE: Uzbekskiy khimicheskiy zhurnal, no. 4, 1965, 40-44

TOPIC TAGS: polymer, irradiation, polyvinyl chloride, styrene, methylmethacrylate, thermomechanical property, elasticity, gamma ray.

ABSTRACT: To avoid oxidative destruction, the authors applied the direct method of simultaneous irradiation of the polymer and the monomer in the absence of oxygen. The chlorinated poly(vinyl chloride) (I),  $\eta$  0.80 in  $(CH_2Cl)_2$  at 25C, styrene (II), and methylmethacrylate (III) were additionally purified from any traces of admixtures. The experiments were carried out as follows. To powdered I in an ampul was added II or III, respectively, the ampul was evacuated by the usual

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B

2

L 16171-66

ACC NR. AP5025431

method of freezing and melting, at  $10^{-3}$  -  $10^{-4}$  mm, sealed in vacuo, and irradiated by  $\gamma$ -rays ( $^{60}\text{Co}$ ) in doses of 0.25-6.0 mr, intensity 200 r/sec. The experimental results (dose, ratio I-II or I-III, weight gain after extraction of monomer, II- or III-content in the copolymer, and % yield of the final product) are given. Owing to the resistance of the benzene nucleus, graft copolymerization of II requires higher radiation doses than that of III. Determinations of thermo-mechanical properties of the copolymers showed that grafting II or III onto I results in a decrease of the Hæckian elasticity region of I. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 07 / SUBM DATE: 05Feb65 / ORIG REF: 005 / OTH REF: 003

Card 2/2

TASHMUKHAMEDOV, S.A.; TILLAYEV, R.S.; USMANOV, Kh.U.; LATYPOV, T.

Grafting of methyl methacrylate into butyl rubber under the effect  
of gamma rays. Uzb. khim. zhur. 9 no.5:59-62 '65.

(MIRA 18:12)

1. Tashkentskiy gosudarstvennyy universitet imeni Lenina.  
Submitted Feb. 5, 1965.

L 23710-66 EWT(m)/EPF(n)-2/EPF(j)/T/EVA(h)/ETC(m)-6/EMA(1) IJP(c)  
ACC NR: AP6008693 WW/GG/RM SOURCE CODE: UR/0291/65/000/005/0059/0062

AUTHOR: Tashmukhamedov, S. A.; Tillayev, R. S.; Latypov, T.; Usmanov, Kh. U. (corresponding member AN UzSSR)

ORG: Tashkent State University im. V. I. Lenina (Tashkentskiy gosuniversitet)

TITLE: Grafting of methyl methacrylate to butyl rubber under the influence of gamma radiation

SOURCE: Uzbekskiy khimicheskiy zhurnal, no. 5, 1965, 59-62

TOPIC TAGS: gamma irradiation, irradiation effect, graft copolymer, butyl rubber, polymethyl methacrylate, methylmethacrylate, polymer, monomer

ABSTRACT: Graft copolymers of butyl rubber (copolymer of isobutylene with 2.0-3.0% isoprene) with methyl methacrylate were synthesized radiochemically by simultaneously irradiating a mixture of the polymer and monomer in the absence of atmospheric oxygen with Co<sup>60</sup> gamma rays. After extraction of the polymethyl methacrylate homopolymer (PMMA), the degree of grafting and yield of the graft copolymer decreased with increasing irradiation dose for a polymer-to-monomer ratio of 1:1 and 1:0.6, and also in the solvent dichloroethane. The copolymers formed had a variable composition; their formation was confirmed by turbidimetric titration. A study of the kinetics of swelling of the copolymers in various liquids showed that the nature of the side chain in the

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61  
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L 25710-00

ACC NR: AF6008693

graft copolymer causes a decrease in the affinity of the system obtained for some liquids and an increase for others. A study of the viscosity of solutions of the graft copolymers in benzene at 30°C revealed that as the content of graft PMMA in the copolymer diminishes (with rising irradiation dose), the intrinsic viscosity of the solutions decreases. This is attributed not only to a drop in the proportion of graft PMMA in the copolymer but also to the degradation of macromolecules of the initial polymer under the influence of gamma radiation. Orig. art. has: 2 figures, 1 table.

SUB CODE: 07/      SIBM DATE: 05Feb65/      ORIG REF: 002/      OTH REF: 002

Card 2/2 *llw*

TASHMUKHAMEDOV, T. P., CAND TECH SCI, <sup>Study</sup> "INVESTIGATION OF  
~~THE~~ <sup>mining</sup> ~~SYSTEMS USED IN EXPLOITING~~ <sup>for</sup> ~~THE~~ THICK, GENTLY SLOPING  
SEAM OF THE ANGREN DEPOSIT." TASHKENT, 1960. (MIN OF  
HIGHER AND SEC SPEC ED UZSSR. TASHKENT POLYTECH INST. MI-  
NING FACULTY IMENI PROF M. M. PROTODI'YAKONOV). (KL-DV,  
11-61, 223).

STARODUBTSEV, S.V.; TIKHOMOLOVA, M.P.; AYZENSHTAT, Ye.L.; TASHMUKHAMEDOVA, K.

Effect of ionized radiation on carbohydrates. Part I: Formation of formaldehyde and 1,3-dihydroxyacetone in the course of gamma-raying of aqueous solutions of glucose, fructose, and maltose. Zhur.ob.khim. 31 no.9:3115-3118 S '61.

(Saccharides) (Gamma rays)

(MIRA 149)

TASHMUKHAMEDOVA, M.I.

Formation of conditioned avoidance reflex and alimentary reflex to electric stimulation of the skin. Zhur. vys. nerv. deiat. 16 no. 1:128-130 Ja-F '66 (MIRA 19:2)

1. Institut vysshey nervnoy deyatel'nosti i neyrofiziologii AN SSSR. Submitted August 31, 1965.

TASHMUKHAMEDOV, U. T.

37474. TASHMUKHAMEDOV, U. T. i NIKOLAYEVA, E. A. Nekotoryye Dannyye o  
Khimicheskoy Sostave Myasizhira Ovets Arkharomerinos. Izvestiya Akad.  
Nauk. Kazakh. SSR, No. 71, Seriya Biol., vyp. 5, 1949, s. 117-20.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

77

TASHNADI-KUBACHKA, A. [Tasnadi-Kubasca, A.], prof. (Vengerskaya Narodnaya  
Respublika).

Traces of centuries. Nauka i shizn' 25 no.5:62-64 My '58.  
(Ipel Valley--Footprints, Fossil) (MIRA 11:5)

**TASHOVA, Anastasia**

Problems of the creative mind at the Bobov Dol Mine. Ratsionalizatsiia  
13 no.12:4-7 '63.

TASHPULATOV, A.A., dotsent

Nikolai Aleksandrovich Mirzoiian; on his 50th birthday. Med.zhur.  
Uzb. no.4:63 Ap '61. (MIRA 14:5)  
(MIRZOIAN, NIKOLAI ALEKSANDROVICH, 1910-)



**TASHPULATOV, A.A., dotsent; SHUKRULAYEV, N.Sh., klinicheskiy ordinator**

Secretary and motor functions of the stomach in taeniaryn-  
chosis. Med. zhur. Uzb. no.9:60-62 S '62. (MIRA 17:2)

1. Iz kliniki fakul'tetskoy terapii (zav. - prof. N.A.  
Mirzoyan) Samarkandskogo gosudarstvennogo meditsinskogo  
instituta.

TASHPULATOV, A.A., dotsent; MALYAR, A.Kh., dotsent

Secretory and motor functions of the stomach in cholecystitis.  
Nauch. trudy SamMI 23:89 '63 (MIRA 17:3)

1. Iz kliniki fakul'tetskoy terapii Samarkandskogo meditsinskogo  
instituta.

TASHPULATOV, ~~Buran~~ KRIVONOSOVA, N.A., red.; BABAKHANOV, A.,  
tekh. red.

[Fattening young sheep for meat and fat production in  
Uzbekistan] Otkrym molodniaka miaso-sal'nykh porod  
ovets v Uzbekistane. Tashkent, Gosizdat UzSSR, 1963.  
19 p. (MIRA 17:2)

NABIYEV, K.A.; MANSUROV, R.I.; TASHFULATOV, I.T.; JUPKULAYEV, S.I.

Find of bauxite rocks in the Aktau (central Kyzyl Kum). Uzb. geol.  
zhur. 9 no.3:87-89 '65. (MIRA 18:8)

1. RGSPE.

in a theoretical. The app. permits the viscosity of  
liquids with exact accuracy according to the viscosimetric equa-  
tion without correction. Results obtained with

TASHPULATOV, Kh.

Tenting of a continuous operation type capillary viscosimeter.  
Izv. AN Uz. SSR. Ser. khim. nauk. no.3:45-49 '57. (MIRA 11:9)  
(Viscosimeter)

*Card*  
TASHFULATOV, Kh.: Master Tech Sci (diss) -- "A viscosimeter for continuous  
and automatic control of production". Tashkent, 1958. 16 pp (Min Higher Educ  
USSR, Central Asia Polytech Inst), 125 copies (KL, No 6, 1959, 136)

EL'GORT, V.M.; Balyatinskaya, L.N.; Tashpulatov, K.; Mirzayev, F.M.

Determination of the viscosity of liquids by the polarographic  
method. Uzb.khim.zhur. no.2:34-37 '61. (MIRA 14:10)

1. Sredneaziatskiy politekhnicheskiy institut.  
(Liquids) (Viscosity) (Polarography)



**YUSUPBEKOV, N.R.; TASHPULATOV, Kh., kand.tekhn.nauk; ABDURAKHIMOV, A.,  
kand.tekhn.nauk**

**Densimeter with continuous action. Masl.-zhir.prom. 28 no.12:  
33-34 D '62. (MIRA 16:1)**

- 1. Tashkentskiy politekhnicheskii institut.  
(Oil industries--Equipment and supplies)**

TASHPULATOV, R.Yu.; SHI DYAN CHEN

Analysis of the antigens of ecologically related pathogenic and unclassified strains of *Escherichia coli* by the method of precipitation in gel. Zhur. mikrobiol., epid. i immun. 33 no.11:148-153 N '62. (MIRA 17:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

TASHPULATOV, R.Yu.

Differentiation of the action of bacteriophage and colicin on the sensitivity of E. coli culture by means of phase contrast microscopy. Zhur.mikrobiol.epid.i immun. 33 no.5:88-90 My '62. (MIRA 15:8)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(BACTERIOPHAGE) (COLICINS) (ESCHERICHIA COLI)  
(PHASE MICROSCOPE)

TASHPULATOV, N.Yu. ; SHI DYAN-CHEN;

Colicinogenicity of pathogenic and unclassifiable *Escherichia coli*. Zhur, *mikrobiol., epid. i immun.* 33. no.12:115-119. D '62.  
(MIRA 16:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN  
SSSR.

(*ESCHERICHIA COLI*)

(COLICIN)

PETROVSKAYA, V.G.; TASHPULATOV, R.Yu.

Production of colicin by recombinants produced under experimental conditions and subsequent transmission of colicinogenicity.  
Zhur. mikrobiol., epid. i immun. 40 no.6:79-84 Je '63.  
(MIRA 17:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR.

LARIGNOVA, T.I.; KUDLAY, D.G.; TASHPULATOV, R.Yu.

Comparative study of phosphatase activity in *Escherichia coli* of pathogenic and nonpathogenic serological types. Zhur. mikrobiol., epid. i immun. 41 no.1:59-63 Ja '64. (MIRA 18:2)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, Moskva.

KORNEYEVA, A.M.; KOL'CHINSKAYA, T.A.; KUDLAY, D.G.; TASHPULATOV, R.Yu.

Comparative biochemical study of ecologically related strains of  
Escherichia coli with different antigen characteristics. Biokhimiia  
30 no.2:241-247 Mr-Apr '65. (MIRA 18:7)

1. Kafedra biokhimii rasteniy gosudarstvennogo universiteta imeni  
Lomonosova i Institut epidemiologii i mikrobiologii imeni Gamalei  
AMN SSSR, Moskva.

ACC NR: AP6027739

SOURCE CODE: UR/0020/66/169/004/0965/0966

AUTHOR: Ulanov, B. P.; Gl'yashenko, B. N.; Tashpulatov, R. Yu.; Engel'gardt, V. A. (Academician)

ORG: Institute of Physical Chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR); Institute of Epidemiology and Microbiology im. N. F. Gamaleya, AMN SSSR (Institut epidemologii i mikrobiologii AMN SSSR)

TITLE: Electron micrographic studies of phage 1F7 DNA

SOURCE: AN SSSR. Doklady, v. 169, no. 4, 1966, 965-966

TOPIC TAGS: electron microscope, bacteriophage, DNA, molecular structure

ABSTRACT:

Sedimentation analysis and studies of fragmented phage DNA reveal the DNA of phage 1F7 to be a closed circular polynucleic chain with a molecular weight between  $1.6-1.7 \times 10^6$  units, with single-stranded DNA. The authors are convinced that circular stranded DNA is not an artifact and present preliminary data to support their view. [WA-50; CBE No. 11]

SUB CODE: 06/ SUBM DATE: 16Nov65/ ORIG REF: 002/ OTH REF: 007

Card 1/1

UDC: 576.858.579



ACCESSION NR: AR4015702

S/0081/63/000/023/0542/0542

SOURCE: RZh. Khimiya, Abs. 23828

AUTHOR: Azizov, U.; Usmanov, Kh. U.; Putiyev, Yu. P.; Tashpulatov, Yu.

TITLE: Infrared absorption spectra of grafted copolymers of cellulose with certain vinyl monomers

CITED SOURCE: Sb. Fizika i khimiya.prirodn. i sintetich. polimerov. Vy\*p. I. Tashkent, AN UzSSR, 1962, 29-34

TOPIC TAGS: spectroscopy, infrared absorption spectrum, polymer, polymer absorption spectrum, grafted copolymer, cellulose, cellulose copolymer, polyvinyl, radiopolymerization

TRANSLATION: By the method of radiation initiation of mixtures of cellulose with certain vinyl monomers, grafted copolymers of cellulose with methacrylate methylmethacrylate, methacrylamide, acrylonitrile and styrene were obtained and their infrared spectra were studied. In the spectrum of copolymers with methacrylate and methylmethacrylate, an intensive band appeared at  $1730\text{ cm}^{-1}$  which corresponds to valence vibrations of a carbonyl group. At the low frequency end of the spectrum, characteristic absorption bands were obtained at  $745$  and  $837\text{ cm}^{-1}$  for the copolymer with methacrylate and at  $745$  and  $826\text{ cm}^{-1}$

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ACCESSION NR: AR4015702

for the copolymer of methylmethacrylate. In the spectrum of the copolymer with methacrylamide, the intensity of absorption increased in the area of  $3300\text{ cm}^{-1}$ , the band valence vibrations of C-H shifted from  $2900$  to the area of  $2870\text{ cm}^{-1}$ , and bands appeared at  $1663\text{ cm}^{-1}$ , (vibration of C = O in the group  $\text{O} = \text{C}(\text{NH}_2)$ ),  $1600\text{ cm}^{-1}$  (deformation vibrations of  $\text{NH}_2$ ) and  $1745\text{ cm}^{-1}$  (deformation vibrations of the  $\text{CH}_3$  group in the methacrylamide). For the copolymer with acrylonitrile, a characteristic band at  $2250\text{ cm}^{-1}$  appeared (valence vibrations of the nitrile group). The bands at  $700$  and  $748\text{ cm}^{-1}$ ,  $1603\text{ cm}^{-1}$  (vibrations of the double bands of an aromatic nucleus) and  $1500\text{ cm}^{-1}$  (vibrations of the benzene ring) were the most reliable for the identification of the copolymer with styrene. The infrared spectra of the studied copolymers can be used for the qualitative evaluation of the degree of grafting.

A. Korobko

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DATE ACQ: 09Jan64

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ACCESSION NR: AR4015701

S/0061/63/000/023/0542/0542

SOURCE: RZh. Khimiya, Abs. 23828

AUTHOR: Putiyev, Yu. P.; Tashpulatov, Yu. T.

TITLE: Infrared absorption spectra of copolymers of sylvan Alpha-methylfuran with dimethyldichlorosilan

CITED SOURCE: Sb. Fizika i khimiya prirod. i sintetich. polimerov. Vy\*p. I. Tashkent, AN UzSSR, 1962, 149-154

TOPIC TAGS: spectroscopy, absorption spectrum, infrared absorption spectrum, polymer absorption spectrum, sylvan, Alpha-methylfuran, dimethyldichlorosilan, organosilicon polymer

ABSTRACT: The infrared absorption spectra of polysylvan and copolymers of sylvan with dimethyldichlorosilan were studied. In the copolymer spectrum, bands at  $1260\text{ cm}^{-1}$  (deformation vibrations of the Si-CH<sub>3</sub> bond) and at  $1100\text{ cm}^{-1}$  were detected, corresponding to vibrations of the Si-O bond in polydimethylsiloxan. The authors assume that, under the conditions of the reaction, hydrolysis of dimethyldichlorosilan takes place, followed by the formation of polydimethylsiloxane groups which form copolymers during the reaction with

ACCESSION NR: AR4015701

sylvan. The individual sylvan units in the copolymer are linked with siloxan bridges. The amount of Si in the copolymer increases when the content of dimethyldichorosilan in the reaction mixture is increased (up to ~17-18%, after which it remains constant). The band at  $1260\text{ cm}^{-1}$  can be used for the quantitative determination of the Si content in the copolymer. A. Korobko.

SUB CODE: OC

DATE ACQ: 09Jan64

ENCL: 00

USMANOV, Kh.U.; CASHPULATOV, Yu.

X-ray diffraction study of cotton fiber during the vegetative period. Uzb.khim.zhur. 6 no.2:39-42 '62. (MIRA 15:7)

1. Tashkentskiy gosudarstvennyy universitet imeni Lenina i Institut khimii polimerov AN UzSSR.  
(Cotton)  
(X rays--Diffraction)

PUTIYEV, Yu.P.; TASHPULATOV, Yu.T.; GAFUROV, T.G.; USMANOV, Kh.U.

Cellulose modification studied by infrared spectroscopy. Vysokom.sped.  
6 no.8:1415-1419 Ag '64. (MIRA 17:10)

1. Institut khimii polimerov AN Uzbekskoy SSR.

PUTIYEV, Yu.P.; TASHPULATOV, Yu.; GAFUROV, T.; USMANOV, Kh.U.

Interaction of cellulose with some hydroxyl-containing compounds  
studied by infrared spectroscopy. Uzb.khim.zhur. 7 no.1:28-33  
'63. (MIRA 16:4)

1. Institut khimii polimerov AN UzSSR.  
(Cellulose) (Hydroxy compounds) (Spectrum, Infrared)

ACCESSION NR: AP4040479

8/0190/64/006/006/0997/1000

AUTHOR: Larin, P. P.; Musayev, U. N.; Tashpulatov, Yu. T.; Tillayev, R. S.;  
Usmanov, Kh. U.

TITLE: IR spectra of copolymers of acrylonitrile and 2-methylfuran

SOURCE: Vy\*sokomolekulyarny\*ye soyedineniya, v. 6, no. 6, 1964, 997-1000

TOPIC TAGS: copolymer, acrylonitrile, furan. 2-methyl, copolymer Ansil,  
radiation induced copolymerization, bulk copolymerization, solution copolymeriza-  
tion

ABSTRACT: The IR spectra of acrylonitrile--2-methylfuran (Ansil') copolymers  
have been studied. The copolymers were prepared by irradiating mixtures of the  
pure monomers both in bulk and in various solvents from a  $Co^{60}$  source. The study  
has confirmed the formation of copolymers. From the results it was assumed that  
in radiation-induced copolymerization of acrylonitrile and 2-methylfuran in solu-  
tion, solvent molecules add to the ends of the copolymer molecules and accelerate  
termination. This assumption was confirmed by the fact that "Ansil'" copolymers  
prepared in solution have a lower molecular weight than those bulk copolymerized.



ACCESSION NR: AP4040479

The addition of the solvent is probably accompanied by a partial cyclization of polyacrylonitrile segments to form conjugated C=N bonds. Orig. art. has 2 figures.

ASSOCIATION: Institut khimi polimerov AN UzSSR (Institute of Polymer Chemistry, AN UzSSR); Tashkentakiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University)

SUBMITTED: 25 May 63

ENCL: 00

SUB CODE: GC, GC

NO REF SOV: 003

OTHER: 001

PUTIYEV, Yu.P.; NIKONOVICH, G.V.; TASHPULATOV, Yu.

Degree of ordering of various cellulose preparations. Uzb.khim.zhur.  
8 no.1:75-81 '64. (MIRA 17:4)

1. Institut khimii polimerov AN UzSSR.

ADYLOV, A.; TASHPULATOV, Yu.; GAFUROV, T.; USMANOV, Kh.U.

Interaction between cellulose and methylolthiourea. Uzb.khim.zhur.  
8 no.1:37-90 '64. (MIRA 17:4)

1. NIITs? Gosplana SSSR.

AZIZOV, M.A.; MATS, A.L.; LARIN, P.P.; TASHPULATOV, Yu.T.; USMANOV, Kh.U.

Infrared absorption spectra of the complex compounds of copper  
of monopyridinecarboxylic acids and their derivatives. *Uzb.khim.*  
*zhur.* 8 no.5:47-53 '64. (MIRA 18:5)

1. Tashkentskiy farmatsevticheskiy institut i Nauchno-issledovatel'-  
skiy institut khimii i tekhnologii khlopkovoy tsellyulczy Gosudar-  
stvennogo komiteta khimicheskoy promyshlennosti pri Gosplane SSSR.

ALYAVIYA, M.K.; SAYDALIYEV, T.; TASHPULATOV, Yu.T.

Infrared absorption spectra of complex compounds of cadmium  
halides with aminobenzoic acid isomers. Zhur. neorg. khim.  
10 no.6:1493-1495 Je '65. (MIRA 18:6)

1. Tashkentskiy gosudarstvennyy meditsinskiy institut.

L 11610-66 EWT(m)/EWP(j)/T WW/RM

SOURCE CODE: UR/0190/65/007/012/2132/2138

ACC NR: AP6001867

AUTHORS: <sup>4/15</sup> Nikonovich, G. V.; <sup>4/15</sup> Leont'yeva, S. A.; <sup>4/15</sup> Shatkina, V. P.; <sup>4/15</sup> Usmanov, Kh. U.; <sup>4/15</sup> Adylov, A. A.; <sup>4/15</sup> Tashpulatov, Yu. T.

ORG: <sup>4/15</sup> Institute for Chemistry and Technology of Cotton Cellulose, Tashkent (Institut khimii i tekhnologii khlopkovoy tsellyulozy)

TITLE: Study of supermolecular structure of cross-linked cellulose derivatives. The products of the reaction of cellulose and epichlorohydrin

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2132-2138

TOPIC TAGS: cellulose, polymer, cellulose plastic, synthetic fiber, electron microscopy, molecular structure, solid mechanical property

ABSTRACT: The supermolecular structure and some of the properties of the products obtained in the reaction between cellulose and epichlorohydrin were studied to elucidate the effect of supermolecular structure on the properties of cross-linked cellulose derivatives. The work was carried out mainly by electron-microscopy, but IR and x-ray spectra were also investigated. Mechanical properties such as strength, elongation, etc under dry and wet conditions were also studied. The results are presented in graphs and tables (see Fig. 1). It is concluded that the reaction of epichlorohydrin with cellulose proceeds via a bifunctional mechanism forming intramolecular cross-links, and it is suggested that, in the case of intermolecular

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L 11610-66

ACC NR: AP6001867

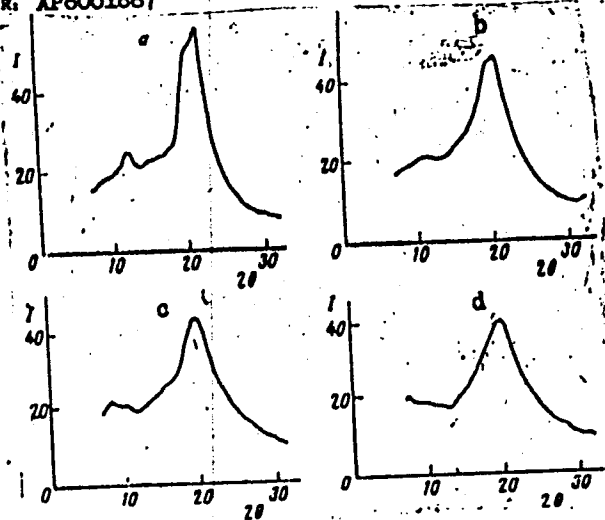


Fig. 1. X-ray diffraction spectra of fibers modified by epichlorohydrin with different weight gains: a - mercerized, not treated; b - 13.6%, c - 46.7%, d - 67.0%.

addition, cross-links are formed between the cellulose microfibrils in the layers of the secondary walls of the fibers. It was found that cross-linkage improves the elastic properties of the cellulose, particularly in wet environments. Orig. art. has: 2 tables, 2 graphs, and 2 photographs.

SUB CODE: 11/ SUBM DATE: 26Jan65/ ORIG REF: 003/ OTH REF: 007

Card 2/2

# 603 END

TARATORIN, B.I.

TO

TASHPULATOV, K.T.



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