"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

U ZHUN-ZHUY[Wu Jung-jui]; ROGOVIN, Z. A.; KONKIN, A. A.

Grafting of polyacrylonitrile and polyvinyl acetate to polypropylene fibers. Khim. volok. no.6:11-14 '62. (MIRA 16:1)

1. Moskovskiy tekstil'nyy institut.

(Acrylonitrile) (Vinyl acetate polymers)
(Propene) (Textile fibers, Synthetic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

KONKIN, A.A., doktor tekhn.nauk; KUDRYAVTSEV, G.I., kand.tekhn.nauk

Latest developments in the field of synthetic fibers. Zhur.VKHO 7 no.2:180-186 '62. (MIRA 15:4)
(Textile fibers, Synthetic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 17482-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AP3004758 S/0183/63/000/004/0012/0014

66
65

AUTHORS: Kol'k, A. R.; Konkin, A. A.; Rogovin, Z. A.

TITLE: Synthesis of acrylonitrile and metacrolein copolymers

SOURCE: Khimicheskiye volokna, no. 4, 1963, 12-14

TOPIC TAGS: copolymerization, acrylonitrile, metacrolein, nitrogen, Kjeldahl method, N

ABSTRACT: Authors studied the process of copolymerization of acrylonitrile with metacrolein copolymer. The reaction was carried out in an aqueous solution in the presence of an oxidation-reduction system and it was intended for the preparation of a new acrylonitrile copolymer which contains aldehyde groups capable of reacting. The copolymerization constants of acrylonitrile with metacrolein have been determined. It was shown that, in the copolymerization of the above monomers, acrylonitrile is less reactive than metacrolein. The composition of the copolymer was determined by its nitrogen content by the Kjeldahl

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L 17482-63

ACCESSION NR: AP3004758

method. Preliminary data show that the copolymer contains 5 to 8% metacrolein. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: MTI (Moscow technical institute)

SUBMITTED: 22Nov62 DATE ACQ: 20Aug63 ENCL: 00

SUB CODE: CH NO REF SOV: 003 OTHER: 006

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

DRUZHININA, T.V.; KONKIN, A.A.; VINOGRADOV, G.V.

Viscosity of polyethylene melts. Khim.volok. no.1:25-29 '63. (MIRA 16:2)

1. Moskovskiy tekstil'nyy institut (for Druzhinina, Konkin).
2. Institut neftekhimicheskogo sinteza AN SSSR (for Vinogradov).
(Polyethylene) (Viscosity)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

DRUZHININA, T.V.; ANDRICHENKO, Yu.D.; KONKIN, A.A.; ROGOVIN, Z.A.

Fibers manufactured from ethylene and propylene copolymers. Khim. volok. no.3:15-18 '63. (MIRA 16:7)

1. Moskovskiy tekstil'nyy institut.
(Textile fibers, Synthetic)
(Ethylene polymers)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

SERKOV, A.T.; CHERKASOVA, Ye.V.; KONKIN, A.A.; POKROVSKIY, V.N.

Effect of some factors on the formation process of the filament streams in the outflow of viscose. Khim. volok. no.3:32-37 '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Serkov, Cherkasova). 2. Moskovskiy tekstil'nyy institut (for Konkin). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyanogo volokna (for Pokrovskiy).

(Rayon)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

U ZHUN-ZHUY [Wu Jung-jui]; STASYUK, Kh.A.; KOCHERGINSKAYA, L.A.; ROZENBLYUM, N.D.; KONKIN, A.A.; ROGOVIN, Z.A.

Radiation grafting of vinyl monomers to polyolefin fibers. Khim. volok. no.5:12-15 '63. (MIRA 16:10)

1. Moskovskiy tekstil'nyy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

SERKOV, A.T.; KONKIN, A.A.; KOTOMINA, I.N.; BUDNITSKIY, G.A.

Formation of the supermolecular structure of viscose fibers during spinning. Khim. volok. no.5:40-45 '63. (MIRA 16:10)

1. Gosudarstvennyy komitet khimicheskoy i neftyanoy promyshlennosti pri Gosplane SSSR (for Serkov). 2. Moskovskiy tekstil'nyy institut (for Konkin). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Kotomina, Budnitskiy).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ACCESSION NR: AT4017417 S/0000/63/000/000/0186/0191

AUTHOR: Movsum-Zade, A. A.; Livshits, R. M.; Rogovin, Z. A.; Konkin, A. A.

TITLE: Synthesis of grafted copolymers of cellulose and polybutylacrylate.

SOURCE: Tsellyuloza i yeye proizvodny*ye, sbornik statey (Cellulose and its derivatives). Moscow, 1963, 186-191

TOPIC TAGS: cellulose, cellulose copolymer, grafted copolymer, polybutylacrylate, copolymerization, polymerization catalyst

ABSTRACT: $Ce(NH_4)_2(NO_3)_6$ was used as the catalyst, the quaternary ammonium salt of diethylaminomethyldodecyl ester (alkalon D) as the emulsifier and cotton cellulose, hydrated cellulose and butylacrylate as the materials in a synthesis of grafted polymers which, depending on the emulsifier concentration, Ce^{4+} concentration, pH of the medium and temperature, yielded products containing 51-94% cellulose and 6-48% polybutylacrylate. The butylacrylate polymerization rate and the proportion of polybutylacrylate in the polymer were found to rise as the emulsifier concentration increased up to 0.20 g/100 ml. A decrease in temperature from 35 to 10C markedly depressed the formation of the homopolymer without affecting the grafted polymerization rate, while both the rate of polymerization and

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

VEDERNIKOVA, L.G.; KONKIN, A.A.

Process of forming of polycarbonate fibers. Khim. volok. no.3: 26-29 '64. (MIRA 17:8)

1. Moskovskiy tekstil'nyy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

VOLKOVA, N.S.; KONKIN, A.A.

Rheological properties of polyvinyl alcohol solutions of medium concentration. Khim. volok. no.4:17-20 '64. (MIRA 18:4)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Volkova). 2. Moskovskiy tekstil'nyy institut (for Konkin).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

MAKAREVICH, N.I.; KONKIN, A.A.; U HUN ZHUY [Wu Jung Jui]

Application of infrared spectroscopy for the analysis of polypropylene fibers. Khim.volok.no.5:9-13 '64. (MIRA 17:10)

1. Institut fiziki AN BSSR (for Makarevich). 2. Moskovskiy tekstil'nyy institut (for U Zhun Zhuy).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ARKHANGEL'SKIY, D.N.; MUSATOVA, G.N.; KONKIN, A.A.

Saponification of cellulose xanthates in homogeneous media. Khim. volok.no.5:38-41 '64. (MIRA 17:10)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Arkhangel'skiy, Musatova). 2. Moskovskiy tekstil'nyy institut (for Konkin).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

VEDERNIKOVA, L.G.; KONKIN, A.A.

Study of the production of polycarbonate fibers from a polymer solution. Khim. volok. no.6:27-30 '64. (MIRA 18:1)

1. Moskovskiy tekstil'nyy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 24660-65 EPF(c)/EPF(n)-2/EPR/EWG(j)/EWA(h)/EWP(j)/EWT(m)/T/EWA(1) Pc-4/
Pt-4/Pu-4/Pab GG/RM/WW
ACCESSION NR. AP4049877 S/0183/64/000/006/0014/0018

49
42
B

AUTHOR: Wu, Jung-jui; Konkin, A. A.; Rogovin, Z. A.

TITLE: Investigation of the structure and properties of modified polypropylene fibers

SOURCE: Khimicheskiye volokna, no. 6, 1964, 14-18

TOPIC TAGS: polypropylene fiber, structure, physical mechanical property, polyacrylonitrile polypropylene graft copolymer, polymethylvinylpyridine polypro- [illegible] polyvinyl acetate [illegible]

ABSTRACT: The changes in the structure and the physical-mechanical properties [illegible] (PP) fibers modified [illegible] vinylpyridine (PMVP) [illegible] investigated. Isotactic PP [illegible] to grafting of the PAK, PAN, PMVP [illegible] The degree of crystallinity and orientation of the structural elements along the fiber axis decreased [illegible] polymers in comparison to PP alone. The block chains in the grafted

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L 24660-65
ACCESSION NR: AP4049877

copolymers did not significantly affect the heat and thermal stability of the PP [illegible] but did lower the mechanical properties. Addition of up to about 10% of [illegible] polymer did not impair the mechanical properties significantly, but [illegible] quantities of PAN, PVMP or PVAc reduced the strength and modulus of [illegible] regardless of the graft polymer. [illegible] made of the [illegible] PP-PAK graft copolymers are [illegible] PP-PVMP [illegible] same capacity as anionite AN [illegible] capacity of [illegible] 100%) was 4.35 mg. equiv./gm. "The authors thank D. Ya. Tsvankin, E. Z. Faynberg, M. P. Zverev and A. G. Monasty*rsko for help in conducting [illegible] work." Orig. art. has: 4 tables and 7 figures.

[illegible] MTI

SUBMITTED: 20Nov63 ENCL: 00

SUB CODE: OC, GC NO REF SOV: 005 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

KORETSKAYA, A.I.; KUDRYAVTSEV, G.I.; KONKIN, A.A.

Solid state polyesterification. Part 1: Solid phase polyesterification of p-acetoxybenzoic acid and low-molecular weight products of condensation of dimethyl terephthalate and ethylene glycol. Vysokom. soed 6 no.3:434-440 Mr'64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut iskusstvennogo volokna.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ACCESSION NR: AP4030356 S/0190/64/006/003/0434/0440

AUTHORS: Koretskaya, A. I.; Kudryavtsev, G. I.; Konkin, A. A.

TITLE: A study of solid state polyesterification reaction. 1. Solid state polyesterification of p-acetoxybenzoic acid and of low molecular condensation products of dimethylterephthalate and ethyleneglycol

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 3, 1964, 434-440

TOPIC TAGS: solid state, polyesterification, solid state polyesterification, p-acetoxybenzoic acid, dimethylterephthalate, ethyleneglycol, catalyst, boric acid, urea, benzidine, terephthalic acid, activation energy

ABSTRACT: The kinetics of solid state polyesterification of p-acetoxybenzoic acid (ABA) and of condensation of dimethylterephthalate (DMTP) with ethyleneglycol (EG) were studied in an atmosphere of nitrogen and in vacuum by the thermogravimetric technique. It was found that within 15 hours at 163C the polyesterification of ABA in a current of nitrogen was 7% complete, while at 168C (within 1-2 degrees of the melting point) it amounted to 14%. The addition of various catalysts caused a marked acceleration of the ABA polyesterification reaction, boric acid being the

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ACCESSION NR: AP4030356

most effective, then urea, benzidine, and terephthalic acid. The obtained ABA polymer had a melting point of 202-203C, was readily soluble in concentrated sulfuric acid (partly so in tricresol) and had a relative viscosity of 1.06-1.10. The investigation of the solid phase polyesterification reaction of DMTP and EG revealed that at 180C it took 360 minutes to reach a 60% completion, while in a 2 mm vacuum the reaction was 100% complete within 160 minutes. The authors assume that under vacuum the reaction has the characteristics of one of the 1.5 order. The activation energy of these reactions was calculated. V. V. Tikhomirova participated in the experimental work. Orig. art. has: 5 charts and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut iskusstvennogo volokna (Scientific Research Institute of Synthetic Fibers)

SUBMITTED: 28Feb63 DATE ACQ: 07May64 ENCL: 00

SUB CODE: CH NO REF SOV: 008 OTHER: 011

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

MOVSUM-ZADE, A.A.; GORYAINOVA, Ye.S.; LIVSHITS, R.M.; ROGOVIN, Z.A.; KONKIN, A.A.

Chemical plasticization of cellulose triacetates by grafting on polymethyl methacrylate. Vysokom. soed. 6 no.7:1340-1345 Jl '64 (MIRA 18:2)

1. Moskovskiy tekstil'nyy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

EWT(m)/EWP(c)/T/EWP(j) RPL WW/RM

ACCESSION NR: AP5023219 UR/0190/64/006/011/1965/1968

AUTHOR: Kozlov, P. V.; Movsum-Zade, A. A.; Konkin, A. A.; Rogovin, Z. A.; Gromova, N. A.; Frolova, A. A.; Livshits, R. M.

TITLE: Plasticizing cellulose triacetate by grafting polymethylacrylate

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 11, 1964, 1965-1968

TOPIC TAGS: chain polymer, copolymerization, plasticizer, cellulose, thermomechanical property, graft copolymer

ABSTRACT: The article describes a study of plasticizing a rigid-chain polymer [illegible] copolymerization with a flexible-chain polymer exhibiting limited [illegible] with it. Grafted copolymers of cellulose triacetate and polymethylacrylate were prepared by acetylation of synthesized graft copolymers [illegible] cellulose with polymethylacrylate. The thermomechanical properties (deformation point) of the graft copolymers and mechanical mixtures [illegible] triacetate with polymethylacrylate were investigated. Plasticization [illegible] copolymerization was found to occur on the molecular level, [illegible] case of mechanical mixtures, a mechanical structuring mechanism [illegible] Orig. art. has: 3 graphs, 1 table.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 64544-65

ACCESSION NR: AP5023219

6

ASSOCIATION: Moskovskiy tekstil'nyy institut (Moscow Textile Institute); [illegible] gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University) 44,55

SUBMITTED: 06Jan64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 004 OTHER: 000 JPRS

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 21778-65 EPF(c)/EPR/EWP(j)/EWT(m)/T Pc-4/Pr-4/Ps-4 RPL/ASD(m)-3/AFETR
RM/WW

ACCESSION NR: AP4044704 S/0062/64/000/008/1497/1500

AUTHOR: Zhulin, V. M.; Pen'kova, M. P.; Konkin, A. A.; Gonikberg, M. G.

Polymerization of α-methylacrolein [illegible]

SOURCE: AN SSSR, Izvestiya. Seriya khimicheskaya, no. 8, 1964, 1497-1500

TOPIC TAGS: alpha methylacrolein, polymerization, high pressure polymerization, heterogeneous polymerization, homogeneous polymerization, radical polymerization

ABSTRACT: The heterogeneous polymerization of α-methylacrolein in methanol (using 0.1% α, α'-bisazodinitrile of isobutyric acid, based on weight of monomer) was investigated at 60C and atmospheric and elevated pressures of [illegible] 6000 kg/cm². The product formed at atmospheric pressure was soluble in pyridine and dimethylformamide; the high pressure products were not. IR [illegible] showed all products contained ether, vinyl, aldehyde and hydroxyl groups, [illegible] was concluded the polymeric chain growth was caused by addition of radi- [illegible] C=C and to the C=O bonds of the monomer [illegible] The polymeriza- [illegible]

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

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ACCESSION NR: AP4044704

3

tion rate under the conditions of the investigation increased linearly in proportion to the increase in polymer yield to about 30% conversion. At 2000 kg/cm^2 pressure the initial polymerization rate was increased 8.4 times and at the same time the polymerization was accelerated 5.6 times in proportion to the accumulated [illegible]. The following relationship was found to obtain: $g = v_0 (e^{at} - 1)/a$, where g is the polymer yield, v_0 is the initial polymerization rate, t is the reaction time, and a is the slope of the straight line determining acceleration of the process corresponding to the accumulation of polymer. The accelerating effect of pressure, characteristic of heterogeneous polymerizations, was significantly greater than in homogeneous radical polymerizations. "Spectral analysis was carried [illegible] B. V. Lopatin, to whom is expressed sincere thanks." Orig. art. has: [illegible], 2 equations and 1 table.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii [illegible] SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR) Moskovskiy [illegible] institut (Moscow Textile Institute)

[illegible] 26Dec62 ENCL: 00

SUB CODE: MT, GC NO REF SOV: 002 OTHER: 004

Card2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

[illegible] NR: AP4047599 S 0023 64 000 [illegible]

[illegible] A. (Kolk, A.); Konkin, A. (Doctor of technical sciences); [illegible] of technical sciences)

[illegible] of a fiber based on a acrylonitrile-[illegible] polymer

[illegible] Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh [illegible]

[illegible] synthetic fiber modification, acrylonitrile [illegible] polymer

[illegible] of earlier work [illegible]

[illegible] experimental methods [illegible]

[illegible] polymers [illegible]

[illegible] in 3 directions [illegible] condensa-

[illegible] aminophenol [illegible]

[illegible] agents [illegible]

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 2[illegible]-65

[illegible] N NR AP4047599

[illegible] aromatic aminogroups. The so obtained colors were much more sta- [illegible] those obtained by adsorption into the fiber. The condensation reaction [illegible] upon the structure of the dye, location of the amino groups and the mole- [illegible] weight. Only 1-2% of the copolymer aldehyde groups participated in the [illegible] The fiber strength was reduced by 5-10%. An up to 100% increase of [illegible] was obtained by 3 methods: (1) using hexamethylenediamine to ob- [illegible] molecular chemical links, crosslinking between the macromolecules was proved by its increased thermostability and failure to dissolve in dimethyl- [illegible] as well as by a new IR band, indicating the formation of a C-N bond, (2) coordinated linking was obtained with $FeCl_3$ and HCl or: (3) with Ni^{+2} following treatment with hydroxylamine. Upon reacting the copolymer with proteins [illegible] polyvinylalcohol, sandwich polymers were obtained [illegible] 4% gel [illegible] added to the polymer. This fiber could be dyed with acid dyes. The [illegible] 2% to the weight. Orig. art. has: 3 tables and 7 formulas.

ASSOCIATION: Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry, Academy of Sciences, Estonian SSR)

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 25628-65

ACCESSION NR: AP4047599

SUBMITTED: 06May64 ENCL: 00 SUB CODE: OC, GC

NR REF SOV 008 OTHER: 004

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

KOL'K, A. [Kolk, A.]; KONKIN, A., doktor tekhn. nauk; ROGOVIN, Z., doktor tekhn. nauk

Production of a fiber based on a copolymer of acrylonitrile and methacrolein. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 13 no.3:241-245 '64.

Modification of a fiber based on a copolymer of acrylonitrile and methacrolein. Ibid.:246-253

(MIRA 17:11)

1. Institut khimii AN Estonskoy SSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 39314-65 EWT(m)/EWG(v)/EWP(j)/T Pc-4/Pe-5 RM

ACCESSION NR: AP5005754

S/0193/65/000/001/0041/0045

23

AUTHORS: Smol'nikova, L. G.; Konkin, A. A.

[illegible] of caprone fiber with [illegible]

[illegible] volokna, no. [illegible]

TOPIC TAGS: caprone, polyamide, intermolecular bond, physicomechanical property, solubility, fiber, formic acid, adipic acid, sebacic acid, catalyst, epoxy, xylene, bifunctional compound / No. 34 caprone, No. 5 caprone, No. [illegible] caprone

ABSTRACT: This article, the first in a series: "Modif[illegible] Fiber, [illegible] experiments performed to ascertain the [illegible] the [illegible] and modulus of elasticity of polyam[illegible] forming inter- [illegible] during the interaction of a polyam[illegible] compounds, [illegible] work and the results of interacting caprone fiber [illegible] dicarboxylic acids, with diepoxy [illegible] fibers No. 34, [illegible], and [illegible] acids in a xylene solution [illegible] the change of physicomechan[illegible] were used as the criteria [illegible] It was found that fiber [illegible]

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 39314-6

ACCESSION NR: AP5005754

[illegible] proportional decrease in the solubility and [illegible] melting point. [illegible] used to study the reaction rate [illegible] on the fiber and [illegible] A weight increase up to 28% and complete insolubility in formic acid [illegible] In the above work, the influence of temperature, time, and the concentration of the reagents were studied. Experiments with dioxanes were conducted [illegible] 75-180C with alkaline and acid catalysts. The results were [illegible] authors thank S. V. Vinogradova for providing dichloranhydride [illegible] Orig. art. has: 4 formulas and 5 graphs.

ASSOCIATION: Moskovskiy tekstil'nyy institut (Moscow Textile Institute)

SUBMITTED: 14Feb64 ENCL: 00 SUB CODE: [illegible]

OTHER: 008

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

EWG(j)/EWT(m)/EWT(j)/T/EWA(h)/EWA ... RM

... NR: AP5005756 S/0103/65/000/001/0051/0053

... Druzhinina, T. V.; Andrichenko, Yu. D.; Konkin, A. A.

Physicochemical properties of fibers of polyethylene and ethylene copol- with propylene

... Khimicheskiye volokna, no. 1, 1965, 51-53

... polyethylene, polypropylene, fiber property, thermal property/ PRK 2

... The work on mechanical properties of fibers of polyethylene (PE) and ... of ethylene with propylene (CEP) performed by ... V. Druzhinina, Yu. ...enko, A. A. Konkin, A. G. Monastyrskiy, and ... Kukin (Tekst. prom., v ... was extended to physicochemical properties of these fibers, i.e., effects ... temperature, chemical reagents, and ultraviolet radiation. It was ... that PE lost ≈ 80% of its room temperature strength at 80C (accompanied by ...crease in elongation) while polypropylene (PP) lost 50% (+30% elongation) ... same conditions. After heating for 24 hours at 100C, PE did not lose ... strength at 100C, while PP had a 12% strength decrease after heat ...

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ACCESSION NR: AP5035756

[illegible] hanging weights (5-10% of weight required for yield) from fibers while [illegible] the temperature at 3-5 degrees/min showed that [illegible] failed at 80C (19% [illegible]), PE at 90C (6%), and PP failed at 160C (≈30%). Ultraviolet radiation [illegible] a PRK-2 lamp for 20 hrs at 30C decreased the strength and elongation of PE, [illegible] and PP respectively as follows: strength-29%, 38% and 37%; elongation- 34, [illegible], and 52%. The effects of NaOH (40% for 100 hours) and H_2SO_4 (80%, 100 hrs) on [illegible] and elongation were small, but HNO_3 caused a 26% strength and a 42% elongation decrease in PE (100% for 100 hrs) and a 14% strength decrease in PP [illegible] 100 hrs). The authors thank A. V. Motorina and N. A. Novikov for allowing [illegible] experiments to be performed at VNIIV. Orig. art. has: 1 figure and 3 [illegible]

ASSOCIATION: Moskovskiy tekstil'nyy institut (Moscow Textile Institute)

SUBMITTED: 16Dec63 ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 003 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

SMOL'NIKOVA, L.G.; KONKIN, A.A.

Mechanical properties of capron fibers cross-linked with bifunctional compounds. Khim. volok. no.2:28-30 '65. (MIRA 18:6)

1. Moskovskiy tekstil'nyy institut.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

VOLKOVA, N.S.; KONKIN, A.A.

Rheological properties of plasticized systems. Khim. volok. no.3:7-11 '65. (MIRA 18:7)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Volkova). 2. Moskovskiy tekstil'nyy institut (for Konkin).

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

AP5013981 UR/0183/65/000/003/0020/0024

[illegible]; Konkin, [illegible] A.

[illegible] of polycaprolactam fiber with cyanuric chloride

SOURCE: Khimicheskiye volokna, no. 3, 1965, 20-24

TOPIC TAGS: caprone, chlorine organic compound, fiber, organic synthesis, heat [illegible], mechanical property

ABSTRACT: The reaction between polycaprolactam fiber [illegible] chloride was [illegible] fibers [illegible] [illegible] On heating this product with 2N NaOH at 50[illegible] [illegible] was converted to a [illegible] [illegible] was obtained. [illegible] changes the physical [illegible] [illegible]-substituted derivative [illegible]

ACCESSION NR: AP5013981

[illegible], but the dichlor-substituted derivative does not. The [illegible] of the monochlor-substituted derivative [illegible] [illegible] the point of the dichlor [illegible] [illegible] The hydroxy derivative [illegible] [illegible] strength, and is more hydrophilic than the [illegible] [illegible]. Both monochlor and dichlor [illegible] [illegible] the initial caprolactam fibers, [illegible] [illegible] monochlor form. The loss of strength [illegible] [illegible] of fibers. Orig. art. has: [illegible]

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[illegible] 31Mar64 ENCL: 00 [illegible] MT, CC

[illegible] OTHER: 003

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677.494.7—13

22
20
B

AUTHOR: Biber, B. L.; Konkin, A. A.

TITLE: Cellulose-polyvinyl alcohol graft copolymers

SOURCE: Khimicheskiye volokna, no. 4, 1965, 29-33

TOPIC TAGS: polyvinyl alcohol, polyvinyl acetate, graft copolymer, cellulose plastic, block copolymer, viscose

ABSTRACT: The article reports on the synthesis of cellulose-polyvinyl alcohol [illegible], their properties, and the effect of side chains on the behavior [illegible] during the main stages of the viscose process ([illegible] and aging). [illegible] of various compositions were [illegible]

[illegible]

cellulose and its copolymers with PVA is the same during the aging. The structures

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ACCESSION NR: AP5019631

2

of the initial and modified cellulose regenerated from their alkaline derivatives following mercerization were compared. No appreciable differences were found be- [illegible] cellulose structures, as [illegible] [illegible] integral heat [illegible]

ASSOCIATION: MTI

[illegible] 26Jun64 ENCL: 00 SUB CODE: MT, OC

OTHER: [illegible]

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ZAKHAROV, V.S.; VASIL'YEV, Yu.V.; KONKIN, A.A.

Rheological properties of plasticized acetyl cellulose. Khim. volok. no.4:49-51 '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh volokon, g. Kalinin (for Zakharov, Vasil'yev). 2. Moskovskiy tekstil'nyy institut (for Konkin).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

RADUSHKEVICH, B.V.; VASIL'YEV, Yu.V.; KONKIN, A.A.

Studying the viscosity of fluoride-containing polymer melts. Khim. volok. no.5:16-20 '65. (MIRA 18:10)

1. VNIISV (for Radushkevich), Vasil'yev). 2. Moskovskiy tekstil'nyy institut (for Konkin).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ARKHANGEL'SKIY, D.N.; MUSATOVA, G.N.; SERAYA, L.D.; BOBROVA, T.V.; POPOVA, L.A.; KONKIN, A.A.

Saponification of cellulose xanthates in a homogeneous medium. Khim. volok. no.5:27-29 '65. (MIRA 18:10)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for all except Konkin).
2. Moskovskiy tekstil'nyy institut (for Konkin).

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 42130-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL WW/RM

ACCESSION NR: AP5011258 UR/0190/65/007/004/0756/0756

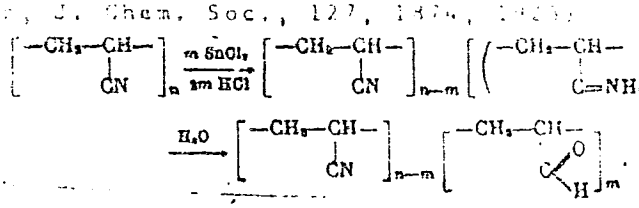
[illegible] Konnova, N. F.; Gabriyelyan, G. A.; Fogovin, Z. A.; [illegible]

[illegible] preparative method for an acry. nitrile-acrolein copolymer [illegible] of conversion to polymer analogs

SOURCE: Vysokomolekulyarnyye soyedeniya, v. 7, no. 4, 1965, 756

TOPIC TAGS: copolymer, polyacrylonitrile, acrylonitrile acrolein copolymer

ABSTRACT: The feasibility has been shown of preparing an acrylo-[illegible]olein copolymer by conversion of some of the nitrile groups [illegible]nitrile to aldehyde groups by the Stephen method [illegible], J. Chem. Soc., 127, 1874, 1923)



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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 82170-65
ACCESSION NR: AP5011258

[illegible] noted that previously such a copolymer was preparable only by starting from the monomers. The reaction was carried out both on [illegible]nitrile and polyacrylonitrile [illegible] in dioxane at 60—100C. [illegible]nt of $SnCl_2$ used was 0.6 to 1.0 mol repeat unit of polyacrylo- [illegible] copolymers containing [illegible] mol% aldehyde groups were [illegible]. Orig. art. has: 1 formula. [SM]

ASSOCIATION: none

SUBMITTED: 18Sep64 ENCL: 00 SUB CODE: OC,GC

NO REF SOV: 000 OTHER: 002 ATD PRESS: 3239

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

KORETSKAYA, A.I.; KUDRYAVTSEV, G.I.; KONKIN, A.A.

Copolycondensation of α,ω-amino acids with linear oligomers of polyethylene terephthalate. Vysokom. soed. 7 no.5:908-912 My '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 00744-66 EPF(c)/EWT(m)/EWP(j)/T RPL RM/WW

ACCESSION NR: AP5020960 UR/0190/65/007/008/1297/1300

AUTHOR: Movsum-Zade, A. A.; Kuznetsov, G. A.; Fomenko, L. N.; Livshits, R. M.; Konkin, A. A.; Rogovin, Z. A.

TITLE: Plasticization of cellulose triacetates by grafting on polybutylacrylate

SOURCE: Vysokomolekulyarnyye soyedineniya. v. 7. no. 8, 1965, 1297-1300

TOPIC TAGS: plasticization, block copolymer, thermomechanical property, copolymerization

ABSTRACT: Plasticization of rigid polymers by graft copolymerization with incompatible flexible polymers was investigated. Cellulose triacetate-polybutylacrylate graft copolymers with different compositions were obtained by acetylating previously synthesized cellulose-polybutylacrylate graft copolymers. The latter were synthesized with the aid of an oxidation-reduction system using Ce^{+4} salts. Acetylation was carried out in homogeneous medium in the presence of $HClO_4$ as catalyst. The thermomechanical properties of mechanical mixtures of cellulose triacetate with polybutylacrylate (which is incompatible with the former) and of the graft copolymers were investigated. It was impossible to differentiate be-

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L 8869-66 EWT(m)/EWP(j)/T/EWA(c) RPL WW/RM

ACC NR: AP5025961 SOURCE CODE: UR/0190/65/007/010/1719/1725

AUTHOR: Novitskaya, M. A.; Konkin, A. A.

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut)

TITLE: Synthesis of polyethylene oxide and polyacrylonitrile block copolymers

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1719-1725

TOPIC TAGS: organic nitrile compound, ethylene oxide, copolymerization, block copolymer, reaction mechanism, polyacrylonitrile, polymerization catalyst

ABSTRACT: The possibility of modifying polyacrylonitrile (PAN) by its block copolymerization with polyethylene oxide (PEO) was investigated. Block copolymer syntheses were effected in aqueous solution at room temperature under atmospheric pressure in the presence of an oxidation-reduction system using quadrivalent cerium salts as the oxidizing agent and the PEO end groups as the reducing agent. The effects of reaction time, and of acrylonitrile, PEO and cerium salt content on the block copolymer yield and composition were examined. The ratio of components

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ACC NR: AP5025961

of the oxidation-reduction system had the greatest effect on the copolymerization. Equimolar amounts of cerium salts and PEO terminal -OH groups gave optimum results. Excess PEO did not greatly effect yield or composition, but did reduce the molecular weight of the copolymer. PAN-PEO block copolymers containing 10-20% PEO were obtained with PEO of 4400 molecular weight by varying reaction conditions. Possible reaction initiation mechanisms are discussed. Orig. art. has: 2 table, 2 equations and 3 figures.

SUB CODE: MT/ SUBM DATE: 13Nov64/ ORIG REF: 003/ OTH REF: 002

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

A L 11609-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6001866 SOURCE CODE: UR/0190/65/007/012/2126/2131

AUTHORS: Andrichenko, Yu. D.; Druzhinina, T. V.; Zubov, Yu. A.; Konkin, A. A.; Tsvankin, D. Ya.

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut); Institute for Heteroorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy, AN SSSR)

TITLE: Study of the structure and properties of polyethylene fibers

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2126-2131

TOPIC TAGS: polymer, crystalline polymer, ~~linear polymer~~, polyethylene, elastic modulus, elasticity, molecular structure, solid mechanical property, synthetic fiber, x ray scattering

ABSTRACT: The influence of supermolecular structure on the mechanical properties of polyethylene fibers was studied. A particular emphasis was placed on the effect of stretching on the structural transformation of linear polyethylene fibers. The experiments were carried out at 110C. The structural changes were investigated by means of x-ray spectroscopy, birefringence, and density determinations. The interpretation of large angle x-ray scattering data was carried out by the method of D. Ya. Tsvankin (Vysokomolek. soyed., 6, 2078, 2083, 1964). Mechanical properties of the fibers determined as a function of the degree of stretching are presented in

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ACC NR: AP6001866

tables and graphs. It was found that complete orientation of crystallites was realized at 800% stretching. The so-called large period first decreases from 200 Å to 173 Å, and then increases to 212 Å with increase in the degree of stretching. At higher degrees of stretching, the intensity of the large period decreases sharply. It is suggested that the marked increase in the elasticity modulus which increases in the large period is associated with the orientation of crystallites and with the increased degree of crystallinity of the polymer fibers. Orig. art. has: 2 tables and 4 graphs.

SUB CODE: 11/ SUBM DATE: 26Jan65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 18347-66 EWT(m)/EWP(j)/T WW/RM (A)

ACC NR: AP6003412 SOURCE CODE: UR/0190/66/008/001/0042/0048

AUTHORS: El'garf, S. A.; Konkin, A. A.; Rogovin, Z. A.

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut)

29

28

B

TITLE: Synthesis of polyacrylonitrile graft copolymers 1,44,55

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 42-48

TOPIC TAGS: graft copolymer, polyacrylonitrile, polymerization initiator, redox reaction

ABSTRACT: A new method for synthesizing graft copolymers of modified polyacrylonitrile (I) with polyacrylonitrile and polymethacrylate (II) while using a redox system is described. Modified (I) was prepared from acrylonitrile and α-methacrolein (the presence of an aldehydo-group in the latter enabled the polymer to act as a reducing agent in the redox system). The redox polymerization method was described earlier by A. R. Kol'k, A. A. Konkin, and Z. A. Rogovin (Khimich. volokna, 1963, No. 4, 12). Effects of the concentration of ceric sulfate and sulfuric acid and the reaction time upon the rate of formation and yield of graft copolymer of modified (I) with (I) and/or (II) were studied.

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[illegible] WT(m)/WP(j)/T Pc-4 RM

[illegible] AP5015273 [illegible]/000/0052/0052

[illegible], A. A.; Smol'nikova, [illegible]

[illegible] processing polyamide [illegible], No.

[illegible]

[illegible] polyamide, fiber, hydrogen [illegible]

ABSTRACT: This Author Certificate presents a method for processing polyamide or a polyamide fiber by reagents interacting with hydrogen [illegible] of the amide group of [illegible] increase the heat resistance [illegible] made [illegible] or a diketene solution is used as the [illegible].

[illegible]

[illegible] 19Feb64 ENCL: 00 [illegible] CODE: 00

[illegible] OTHER: [illegible]

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KONKIN, A.A., doktor khimicheskikh nauk

Elastomer synthetic fibers. Zhur. VKHO 10 no.2:152-159 '65.
(MIRA 18:6)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

DRUZHININA, T.V., nauchnyy sotrudnik; ANDRICHENKO, Yu.D., nauchnyy sotrudnik; KONKIN, A.A., prof.; MONASTYRSKIY, A.G.; KUKIN, G.N., prof.

Mechanical properties of fibers made from polyethylene and copolymers of ethylene with propylene. Tekst. prom. 25 no.5:19-24 My '65. (MIRA 18:5)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

KON'KOV, V.I. (Gor'kiy)

Solution of problems in the theory of sounding measurements of the parameters of semiconductor films. Prikl. mat. i mekh. 29 no.4:792-794 Jl-Ag '65. (MIRA 18:9)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 34825-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6017602 (A) SOURCE CODE: UR/0183/66/000/001/0026/0029

AUTHOR: Smol'nikova, L. G.; Konkin, A. A.; Makarevich, N. I.

ORG: [Smol'nikova] Altai Polytechnical Institute im. Polzunov, Barnaul (Altaiskiy politekhnicheskiy institut); [Konkin] MTI; [Makarevich] Institute of Physics, AN BSSR, Minsk (Institut fiziki AN BSSR)

TITLE: Using sulfur chloride solutions for cross-linking capron fibers

SOURCE: Khimicheskiye volokna, no. 1, 1966, 26-29

TOPIC TAGS: chloride, sulfur compound, polymer cross linking, synthetic fiber, ~~nylon,~~ polyamide, IR spectrum

ABSTRACT: This article is the fourth in the series "Modification of Capron Fiber". The previous studies were devoted to the effect which dicarboxylic dichlorides, diisocyanates and cyanuric chloride have on the properties of polyamide fiber. In view of the cross linking which takes place with the formation of intermolecular chemical bonds when rubber, gutta-percha and polyvinyl alcohol are treated in sulfur chloride, experiments were conducted to study the use of this reagent for cross linking in capron fiber. No 34.5 polyamide was treated in an 8% solution of pyridine in xylol. After the reaction, the modified fibers were extracted by carbon disulfide and acetone to a constant weight to eliminate the effect of sorbed sulfur on the properties of the

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L 34825-66

ACC NR: AP6017602

fibers. Two new absorption bands were observed at 1117 and 630 cm^{-1} in the infrared spectrum of polycaproamide cross-linked with sulfur chloride. The bands apparently indicate the presence of $-NH-\overset{\overset{\displaystyle S}{\|}}{C}-$ groups in the modified capron. Treatment of the modified fiber in water at 100°C considerably reduces the quantity of bound sulfur. This process continues for 4 hours of boiling after which the bound sulfur has been reduced to one half and there is practically no further change. The infrared spectra of the treated polymer do not show the absorption bands characteristic of $-NH-\overset{\overset{\displaystyle S}{\|}}{C}-$ groups. It is shown that the labile intermolecular polysulfide bonds formed during interaction of the polycaproamide with sulfur chloride are converted into more stable bonds by the boiling water. The formation of polysulfide cross lines in accompanied by substitution of sulfur for the oxygen in the amide bond with the formation of thioamide groups. Orig. art. has: 4 figures, 1 table.

SUB CODE: 11, 07/ SUBM DATE: 01Dec64/ ORIG REF: 009/ OTH REF: 001

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

L 46143-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6026736 (A) SOURCE CODE: UR/0183/66/000/003/0021/0023

33

AUTHOR: Smol'nikova, L. G.; Konkin, A. A.

ORG: Altay Polytechnic Institute im. I. I. Polzunov, Barnaul (Altayskiy politekhnicheskiy institut)

TITLE: Mechanical and thermomechanical properties of sulfur monochloride vulcanized polycaprolactam fibers

15

SOURCE: Khimicheskiye volokna, no. 3, 1966, 21-23

TOPIC TAGS: synthetic fiber, solid mechanical property, vulcanization

ABSTRACT: The effect of vulcanization with sulfur monochloride on mechanical and thermomechanical (tensile strength, elongation, modulus of elasticity, thermal stability) properties of polycaprolactam resins was investigated. The object of the work was to develop technology for improving the commercial polycaprolactam fiber "kapron No. 34.5". Kapron No. 34.5 fiber samples were vulcanized with S_2Cl_2 (by treatment with a pyridine-containing 5% S_2Cl_2 solution in absolute xylene) to contain 1.1-8.4% combined sulfur and then the tensile strength and elongation were measured after thermal treatment at 21°, for 24 hrs at 150°C, for 1 hr at 200°C, for 0.5 hr at 220°C, and for a 4 hr treatment with water at 100°C. It was found that the introduction of sulfur generally resulted in improved thermal stability of the polycaprolactam fiber.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ACC NR: AM6033433 Monograph UR/

Konkin, Aleksandr Arsen'yevich; Zverev, Mikhail Petrovich

Polyolefin fibers (Poliolefinovyye volokna) Moscow. Izd-vo "Khimiya", 1966. 278 p. illus., biblio., index. 3700 copies printed.

TOPIC TAGS: conjugated polyolefin hydrocarbon, synthetic fiber, fiber

PURPOSE AND COVERAGE: This book is intended for scientific and engineering workers in the synthetic fiber industry and in associated branches of industry concerned with synthetic fibers. It can also be used as a textbook by students of chemical-engineering and textile institutes of higher education. The book discusses the basic principles for synthesizing polyolefins (polypropylene and polyethylene) and their most important properties, and describes the effect on the process for producing polyolefin fibers. Also described are the rheological characteristics of polymer melts, the fiber-formation processes and the drawing and thermal fixing of the thread. The properties, means of modification, and possible fields of polyolefin fiber application are examined. Chapters I, II, IV and V were written by M. P. Zverev, and the introduction, Chapters III, VI, and VII by A.A. Konkin. The authors express gratitude to Doctor of Technical Sciences K. Ye. Perepelkin, Candidate of Technical Sciences T. V. Druzhinina and A. Ya. Malin, and to A. R. Gantmakher for their helpful advice. There are 395 references 219 of which are Soviet.

Card 1/2 UDC: 677.494.742.2/.3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824310006-7

ACC NR: AM6033433

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Ch. II. Destruction and stabilization of polyolefins -- 63
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Ch. V. Drawing and separation of polyolefin fibers -- 192
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Ch. VII. Modifying the properties of polyolefin fibers -- 225

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SKRIPNIK, Ya. P.; LERNER, I.M.; KONKIN, A.V.; BARAMIDZE, G.A.

Manufacturing protein fodder concentrates, antibiotics, and vitamins from alcohol production wastes. Spirt.prom. 27 no.4:21-25 '61. (MIRA 14:6)
(Distilling industries--By-products)

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"Investigation of the processes of wear on the chutes of scraper conveyors (on the example of the chutes of the SKR-11 conveyor)." Min Higher Education USSR. Moscow Mining Inst imeni I. V. Stalin. Moscow, 1956. (Dissertation for the Degree of Cnadidate in Technical Sciences).

So: Knizhnaya letopis'
No. 25, 1956. Moscow

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KONKIN, B.N.

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Reader's response to I.G. Shtokman's article "Basic parameters of scraper conveyors." Ugol'33 no.1:39 Ja '58. (MIRA 11:2)

1. Permskiy gornyy institut.
(Coal handling machinery)
(Shtokman, I.G.)

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KONKIN, B.N.

LYUTAREVICH, K.V., dots., kand. tekhn. nauk; KONKIN, B.N., kand. tekh. nauk.

Valuable book on mine transportation machinery ("Mine transportation machinery" by A.V. Evnevich. Reviewed by K.V. Lutarevich, B.N. Konkin). Ugol' 33 no.2:47-48 F '58. (MIRA 11:2)
(Mine haulage) (Conveying machinery)
(Evnevich, A.V.)

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KONKIN, B.M., dotsent

Length of the breaking distance in mines. Bezop.truda v prom. 7 no.4:9-10 Ap '63. (MIRA 16:4)

1. Permskiy politekhnicheskiy institut.
(Mine haulage—Safety measures)

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KONKIN, B.N., dotsent; VYSHINSKIY, Yu.M., inzh.

Use of electric mine locomotives for pulling loaded cars up an incline. Izv. vys. ucheb. zav.; gor. zhur. 6 no.3:74-79 '63. (MIRA 16:10)

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Braking force produced by 14Kr-1 electric locomotives in potassium mines of the upper Kama deposit. Izv. vys. ucheb. zav.; gor. zhur. 6 no.8:88-89 '63. (MIRA 16:10)

1. Permskiy politekhnicheskiy institut. Rekomendovana kafedroy pod"yemno-transportnykh mashin.

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1. KONKIN, I.

2. USSR (600)

4. Meat Industry

7. Production output when processing goats. Mias.ind. SSSR 23 no. 6, 1952.

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Safety appliance for circular saws. Mias.ind. SSSR. 25 no.4: 61 '54. (MIRA 7:8)

1. Bakinskiy myasokombinat.
(Circular saws--Safety appliances)

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KONKIN, I., inzhener; SEN'KIN, A., mekhanik.

Automatic stall for cattle and pigs. Mias.ind. SSSR 25 no.6:54-55 '54. (MLRA 8:1)

1. Bakinskiy myasokombinat.
(Cattle--Transportation)

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KONKIN, I., inzhener.

Dosimeters for liquid preparations. Mias.ind. SSSR 26 no.1:56-57 '55. (MIRA 8:5)

1. Bakinskiy myasokombinat.
(Drug industry) (Bottling machinery)

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Efficiency improvement at the Baku Meat Combine. Mias. ind. SSSR 27 no.5:30-31 '56.
(Baku--Packing houses) (MLRA 9:11)

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Suggestions of efficiency promoters. Mias.ind.SSSR 27 no.6:51-53 '56. (MLRA 10:2)

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(Meat industry--Equipment and supplies)

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Apparatus for the removal of hoofs. Mash. ind. SSSR 28 no.6:58 '57. (MIRA 11:1)

1. Bakinskiy myasokombinat.
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Our experience conducting practical training for students.
Mias. ind. SSSR 29 no.2:28-29 '58. (MIRA 11:5)

1. Bakinskiy myasokombinat.
(Field work (Educational method))
(Packing houses)

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Comments on the planning of new packing houses. Mias. ind. SSSR. 30 no.4:33-34 '59. (MIRA 12:12)

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(Packing houses)

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Mechanization level of processing shops is rising. Mias.ind. SSSR 31 no.6:41-44 '60. (MIRA 13:12)

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Achievements of efficiency promoters. Mias.ind. SSSR 33 no.3:14-15 '62. (MIRA 15:7)

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(Baku—Meat industry)

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KONKIN, I.F.

Konkin, I.F. "Sources of blood supply of the venous sinus and the great heart vein in man", Trudy Voyen.-mor. med. akad., Vol. XI, 1948, p. 234-37, - Bibliog: 9 items.

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KONKIN, I.F., (Leningrad, st. Pesochnaya, d.250, kv. 1)

Neural apparatus of the human fetal pharynx in man. Arkh.anat. gist. i embr. 35 no.4:33-38 Jl-Ag '58 (MIRA 11:10)

1. Iz kafedry normal'noy anatomii (nach. - prof. V.M. Godinov) Voyenno-morskoy meditsinskoy akademii.
(PHARYNX, embryology, innervation (Rus))

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Fourth Conference on Age Factors in Morphology, Physiology, and Biochemistry. Arkh.anat.gist.i embr. 37 no.8:117-122 Ag '59. (MIRA 12:11)

(AGE)

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Sources of innervation of the pharynx. Arkh.anat.gist.i embr. 38 no.2:69-75 F '60. (MIRA 14:6)

1. Kafedra normal'noy anatomii (nachal'nik - chlen-korrespondent AMN SSSR prof. B.A.Dolgo-Saburov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(PHARYNX—INNERVATION)

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KONKIN, I.F.

Structure of the nerve plexus of the pharynx. Arkh. anat., gist. i embr. 45 no.7:64-71 Je '63. (MIRA 17:4)

1. Kafedra normal'noy anatomii (ispolnyayushchiy obyazannosti zaveduyushchego - prof. V.M. Godinov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova, Leningrad. Adres avtora: Leningrad, ulitsa Lebedeva, 37, Voyenno-meditsinskaya akademiya imeni Kirov, kafedra normal'noy anatomii.

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KONKIN, I.F.

Materials on the comparative hystology of the nervous apparatus of the pharynx (Amphibia). Trudy Len. ob-va est. 74 no. 1:64-67 '63. (MIRA 17:9)

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KONKIN, I.F. (Leningrad, Pesochnoye-a, 250, kv.1)

Structure of the nervous apparatus of the pharynx in frogs. Arkh. anat., gist. i embr. 47 no.12:83-88 D '64. (MIRA 18:4)

1. Kafedra normal'noy anatomii (ispolnyayushchiy obyazannosti zaveduyushchego - prof. V.M.Godinov) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

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AUTHORS: Ionov, V.G. and Konkin, M.I. (Engineers) 100-5-9/10

TITLE: New hydraulic jack for tensioning steel reinforcement. (Novyy gidravlicheskiy domkrat dlya natyazheniya provoloki).

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction), 1957, Vol.14, No.5, pp.29 - 31 (USSR).

ABSTRACT: Designers of the Sheksnin factory of Transport Constructions (Ministerstvo Transportnogo Stroitel'stva) constructed the new hydraulic jack GD-15 (ГД-15). This supersedes the jack SM-539 (СМ-539). The new jack consists of a main body to which 5 small jacks are fixed, one for each steel rod. The jack is suspended in the horizontal position to allow for the use in various levels and positions (from a stand on wheels). The stand incorporates manually operated gears and other controls. The jack is designed for a working pressure of 300 kg/cm^2, the capacity of each of the small jacks (in tensioning) being 3400 kg, the maximum displacement being 105 mm. The gripping capacity is 1500 kg and the weight of the whole jack is 82 kg. It was designed for tensioning of five 5 mm diameter rods. It can, however, be constructed with varying numbers of small jacks, i.e. different number of rods and different diameters. The introduction of this jack has increased the output 10 - 15

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KONKIN, M. V.

-29196. Khozyaystvennyy raschet na (Gor'kovskom) avtozavode im. Molotova . Avtomob prom-sty', 1949, No. 9, S. 5-7

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

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KISELEV, I.I.; BORISOV, N.I.; YASINOVSKIY, B.S., inzh.; SANNIKOV, Yu.K., inzh.; SOKOLOV, V.A., inzh.; LEVCHENKO, L.D., inzh.; NALOYEV, G.A., inzh.; CHICHAKOV, K.K., inzh.; BARYKIN, V.I., inzh.; FREYDLIN, A.Ya., inzh. GULYAYEV, A.I., inzh.; STIGNEYEV, Ya.F., inzh.; SHAGANOVA, K.N., inzh.; KHELIMSKIY, I.Ye., inzh.; AVROV, A.N., inzh.; DEMIDOVA, M.I., inzh.; NIKIFOROVA, Ye.D., inzh.; KLIBANOVA, F.I., inzh.; CHIVKUNOV, K.I., inzh.; STOROZHKO, I.G., inzh.; NOVAKOVSKIY, Ye.Ya., inzh.; GOYKHTUL', A.O., inzh.; TARASOV, A.M., inzh.; SHISHKO, A.P., inzh.; UVAROV, P.T., ekonomist; DRAGUNOV, M.V., ekonomist; KARANDASHOV, A.A., ekonomist; KONKIN, M.V., ekonomist; GOREV, M.S., ekonomist. Prinimali uchastiye: LAPIN, T.I.; RAMENSKIY, Yu.A.; KADINSKIY, B.A.; SOKOLOV, S.D.; STOROZHKO, I.G.; FOMINYKH, A.I.. POLYAKOVA, N., red.; SMIRNOV, G., tekhn.red.

[Organization and improvement of production; practices of the Gorkiy Automobile Plant] Organizatsiia i sovershenstvovanie proizvodstva; opyt Gor'kovskogo avtozavoda. Moskva, Gos. izd-vo polit. lit-ry, 1958. 332 p. (MIRA 12:2)

1. Direktor Gor'kovskogo avtomobil'nogo zavoda (for Kiselev).
2. Glavnyy inzhener Gor'kovskogo avtomobil'nogo zavoda (for Borisov).
3. Gor'kovskiy avtomobil'nyy zavod (for all except Kiselev, Borisov, Polyakova, Smirnov).

(Gorkiy--Automobile industry)

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KONKIN, Mikhail Vasil'yevich; BASMANOV, V.A., otv. red.; MEDVEDEVA, R., red.izd-va; LEBEDEV, A., tekhn. red.

[Business accounting in an enterprise; from the practice of the Gorkiy Automobile Plant]Khoziaistvennyi raschet na predpriiatii; iz opyta Gor'kovskogo avtozavoda. Moskva, Gosfinizdat, 1962. 71p. (MIRA 16:3)

(Gorkiy--Automobile industry--Finance)

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SEREGIN, Andrey Vasil'yevich, kand.khim.nauk; KONKIN, P.I., polkovnik, red.; SOKOLOVA, G.F., tekhn.red.

[Motor fuels] Goriuchee dlia dvigatelei. Moskva, Voen. izd-vo M-va obor. SSSR, 1958. 135 p. (MIRA 12:1)
(Motor fuels)

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YEVTYUKHIN, Ivan Yegorovich; SEREBRYAKOV, Yuriy Fedorovich; KOKKIN, P.I., polkovnik, red.; STRZL'NIKOVA, M.A., tekhn.red.

[Truck driving in convoys] Vozhdenie avtomobilia v kolonne. Izd.2., ispr. i dop. Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 94 p. (MIRA 12:10)
(Russia--Army--Transportation) (Motortrucks)

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PETROVSKIY, Georgiy Semenovich, polkovnik; TARATORIN, Nikolay Nikolayevich, polkovnik; YAKOVLEV, I.K., general-mayor tankovykh voysk, red.; KONKIN, P.I., polkovnik, red.; MURASHOVA, L.A., tekhn. red.

[Examples of methodology for tactical training of tank crews and platoons] Sbornik primerov po metodike takticheskoi podgotovki tankovogo ekipazha i vzvoda. Pod red. I.K. IAkovleva. Moskva, Voenizdat, 1963. 154 p. (MIRA 16:7)

(Tank warfare)

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KOTOVSKIY, Vladimir Il'ich, kand. tekhn. nauk, inzh.-podpolkovnik; KONKIN, P.I., polkovnik, red.; SLEPTSOVA, Ye.N., tekhn. red.

[Stabilizers for tank armaments; principles of design and operation] Stabilizatory tankovogo vooruzheniia; printsipy ustroistva i deistviia. Moskva, Voen.izd-vo M-va oborony SSSR, 1961. 108 p. (MIRA 15:2)

(Tanks (Military science))

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SMIRNOV, Mikhail Pavlovich, polkovnik; VARENYSHEV, Boris Vasil'yevich, polkovnik; KONKIN, P.I., polkovnik, red.; SOKOLOVA, G.F., tekhn. red.

[Engineer support of tank operations] Inzhenernoe obespechenie deistvii tankov. Moskva, Voenizdat, 1962. 169 p. (MIRA 15:7)

(Military field engineering)
(Tank warfare)

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TEREKHOV, Petr Vasil'yevich, kand. voyen. nauk, dots., polkovnik zapasa; KONKIN, P.I., red.

[Combat operations of tanks in the northwest in 1944] Boevye deistviia tankov na Severo-Zapade v 1944 g. Moskva, Voenizdat, 1965. 174 p. (MIRA 18:4)

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KIRILLOV, Boris Nikolayevich, polkovnik; POSTNIKOV, Viktor Fedorovich, polkovnik; KONKIN, P.I., red.

[Tank company in battle] Tankovaia rota v boiu. Moskva, Voenizdat, 1965. 159 p. (MIRA 19:1)

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LEVIN, Semen Izrailevich; KONKIN, P.I., polkovnik, red.; MEDNIKOVA, A.N., tekhn.red.

[Pipeline transportation] Truboprovodnyi transport. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 175 p. (MIRA 13:9)
(Pipelines)

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ZHIDOVICH, A.I., kand.tekhn.nauk; VARGA, R.Sh., kand.tekhn.nauk; KONKIN, O.N., inzh.; KURZIN, B.A., inzh.

Automatic regulator for controlling the drying of the wood of hardwood species. Der. prom. 12 no.11:6-7 N '63. (MIRA 17:1)

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KONKIN V.D.

5

21

Rapid Colorimetric Method of Determining Phosphorus in Ferrous Metals in the Presence of Arsenic. V. D. Konkin. (Zavodskaya Laboratoriya, 1939, No. 3, pp. 322–324). (In Russian). The steel is dissolved in nitric acid and the solution is boiled. It is then oxidised with potassium permanganate solution, the MnO_2 precipitate being destroyed by the addition of 10% of sodium nitrite, the nitrous fumes being removed by boiling. After cooling, the solution is treated with ammonium vanadate and ammonium molybdate, which gives a coloured soluble compound—$(NH_4)_3PO_4.VO_3.10MoO_3$—with the phosphate. The latter is estimated colorimetrically against a solution prepared from a steel (free from chromium and nickel) of known phosphorus content. The time required is 10–12 min.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Cr

7

Rapid colorimetric method for the determination of phosphorus in metals in the presence of arsenic. V. D. Kuskin. *Zavodskaya Lab.* 8, 323-4(1939); *Chem. Zentr.* 1940, II, 1907.—Dissolve 1 g. sample of steel in 20 ml. of 6 *N* HNO_3 and boil to remove N oxides. Oxidize the soln. with 4% $KMnO_4$ soln. until MnO_2 ppts., then reduce with 10% $NaNO_2$, cool and transfer to a graduated cylinder. After adding 10 ml. of $(NH_4)_3VO_4$ soln. (3 g. $(NH_4)_3VO_4$ dissolved in 500 cc. boiling water, addn. of 25 cc. HNO_3 (d. 1.20) and dilu. to 1 l.) and 10 cc. ammonium molybdate soln. (50 g. $(NH_4)_6Mo_7O_{24}.4\ H_2O$ dissolved in 500 cc. hot water), make up to a definite vol., and det. the P colorimetrically by comparison with a standard soln. prepd. in the same manner from a steel of known P content.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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KONKIN, V. D.

Dissertation: "Photocolorimetric Determination of Aluminum in Carbon and Alloyed Steels and Cast Irons." Cand Chem Sci, Khar'kov State University, Khar'kov, 1954 (Referativnyy Zhurnal-Khimiya, No 12, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

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