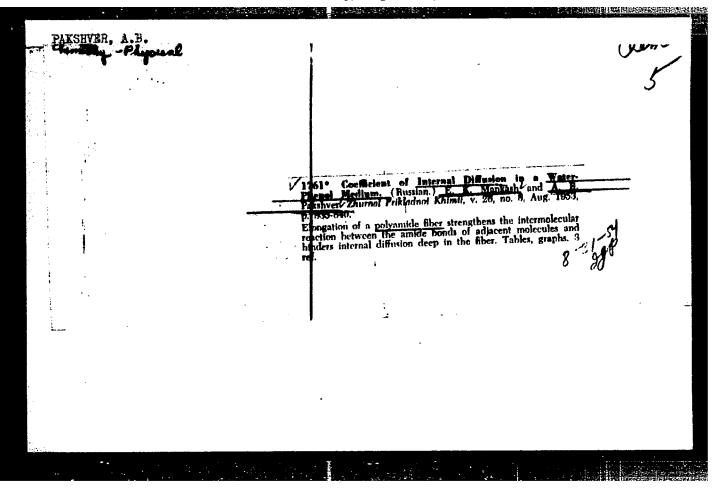


# Brusture of macromalecular compounds, I. Modification of the length of columnity of the property of the proper



**建筑的设置。1950年2000年3月1**6年

### MANKASH, Ye.K.; PAKSHVER, A.B.

Dyeing of polyamide fibers with acid dyes. Zhur.prikl.khim. 26 no.9:976-981 S '53. (MIRA 6:10)

1. Ivanovskiy khimiko-tekhnologicheskiy institut. (Dyes and dyeing--Mylon)

THE REAL PROPERTY OF THE PROPE

MYAGKOVA, G.A.; PAKSHVKR, A.B.; FROLOV, S.S.

Absorption of naphthylamine sulfenic acids by mylon fiber. Zhur.prikl.khim. 26 no.9:991-995 S '53. (MLRA 6:10)

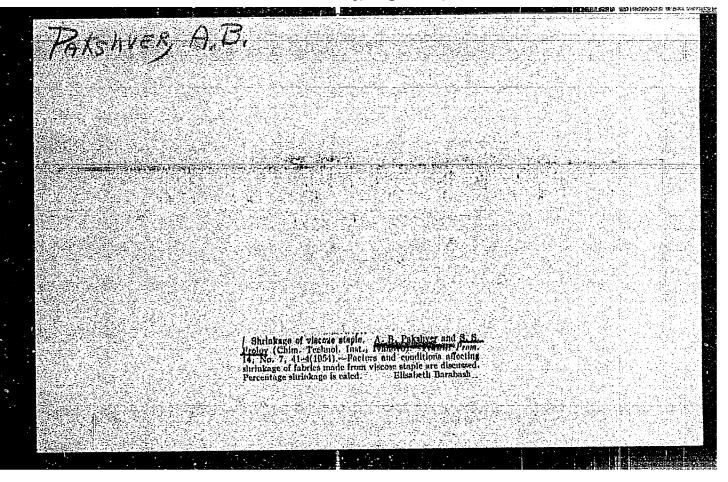
Ivanovskiy khimiko-tekhnologicheskiy institut.
 (Hylon) (Naphthylamine sulfonic acids)

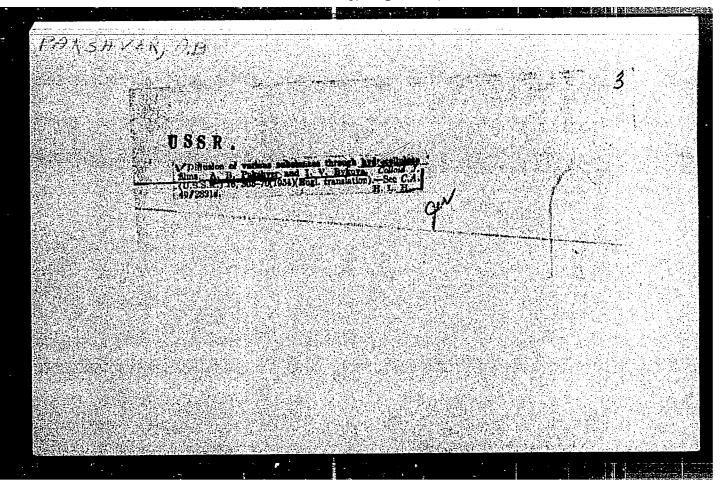
PAKSHVER, A. B.

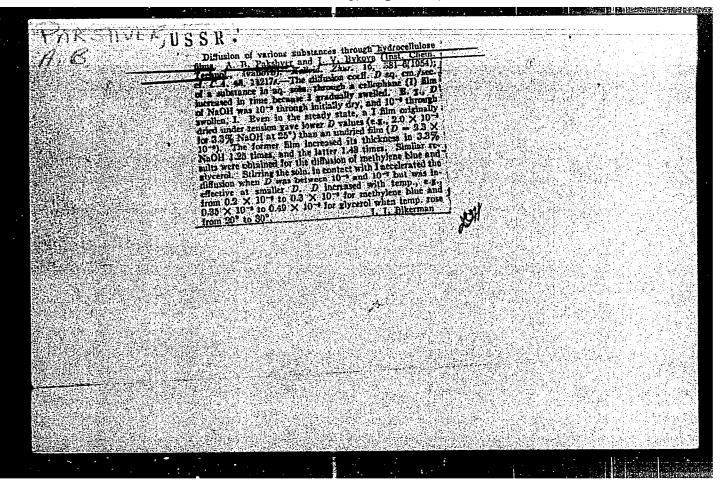
9

Research on structure of high-molecular compounds. V. Effect of the pli of the medium on dwaing of polyamide fiber. E. K. Mankash and A. B. Pakshver (Chem. Technol. Inst., Ivanovsk). Zhur. Priklad. Khim. 26, 1200-4(1953); cf. C.A. 47, 12820e. -- The diffusion coeff. and the apperent activation energy involved in dyeing of polyamide fiber with acid dye Cyanol Extra and in treatment of the fiber with BzOH are of the same order of magnitude as obtained by other authors for dyeing of wool and protein materials. The diffusion coeff. in dyeing is affected by pH, temp., and structure of the fiber. At pH 2, owing to hydrolytic reactions, equil. is not attained in dyeing and the amt. of absorbed dye constantly increases. As the pH of the bath rises to 4 from 2, the amt. of dye taken up at any time increases (curves shown). As this takes place, the diffusion coeff. increases slightly; lowering of temp. sharply reduces the diffusion coeff. The amt. of absorbed dye is smaller for stretched polyamide fiber than for unstretched (unoriented) specimens, the difference being about 0.1%. The activation energy of dyeing ranges from 15,600 cal./mole at pH 2 for unstretched fiber to 19,700 at pH 4; for stretched fiber it ranges similarly from 18,800 to 14,000. At pH ? both fibers give a value of 19,800 cal./mole.

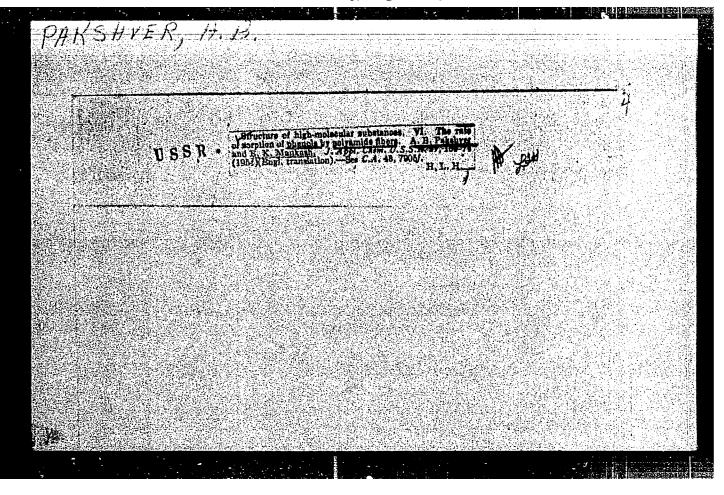
G. M. Kosolapoff

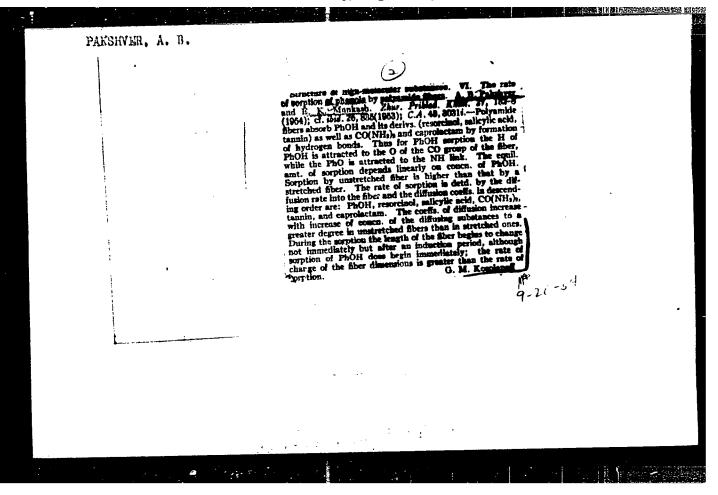




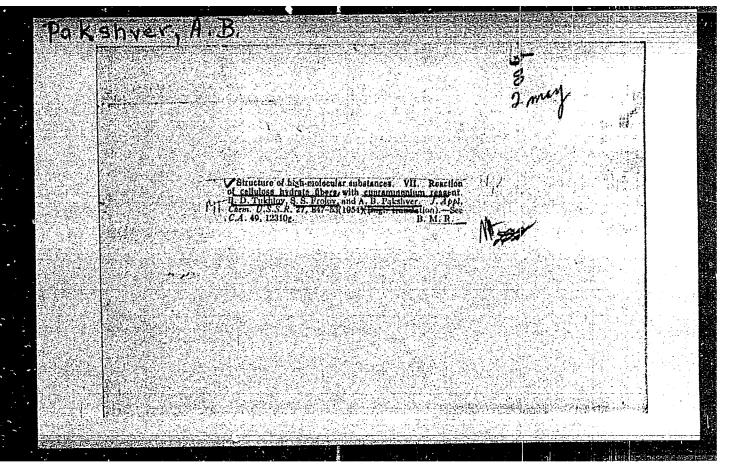


THE PROPERTY OF THE PROPERTY O F MANKASH, Ye.K.; PAKSHVER, A.B. Diffusion of phenol in polyamide films and fibers. Koll.zhmr. 16 (MIRA 7:12) no.6:451-454 H-D 154. 1. Inanovskiy khimiko-tekhnologicheskiy institut. (Phenols) (Amides) (Diffusion)





"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



Interaction of hydrocellulose fibers with cuprameonius reagents.

Zmr.prikl.khim. 27 no.8:907-914 ag '54. (KZAZ 7:9)

1. Laboratoriya iskusstvennogo volokna Ivanovskogo khimikotakhnologicheskogo instituta.

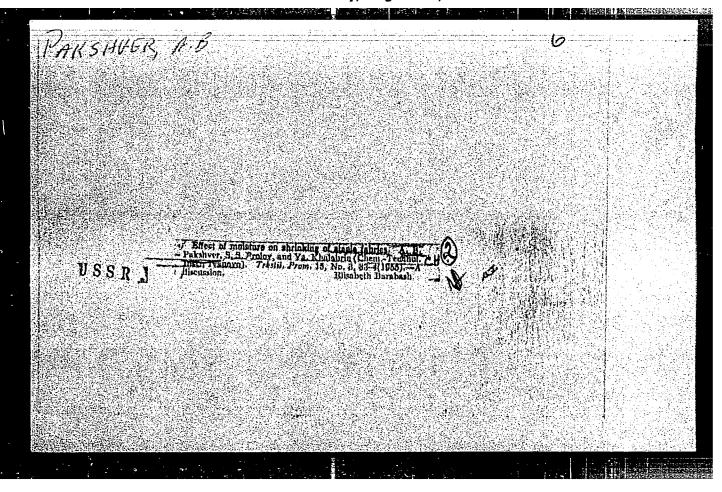
(Gellulose) (Copper compounds)

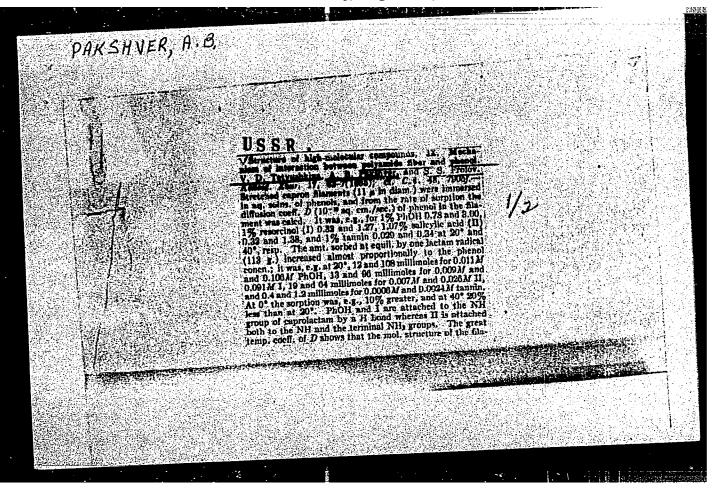
PARSHVER, A.B., professor, doktor tekhnicheskikh nauk; FROLOV, S.S., kandidst tekhnicheskikh nauk, dotsent; SKOROKHODOVA, Z.A., laborant

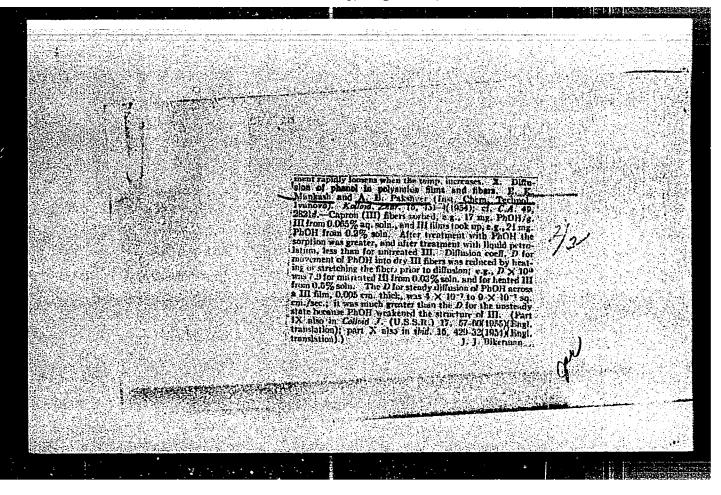
Effect of load on the shrinkage of wet staple fiber fabric. Tekst.

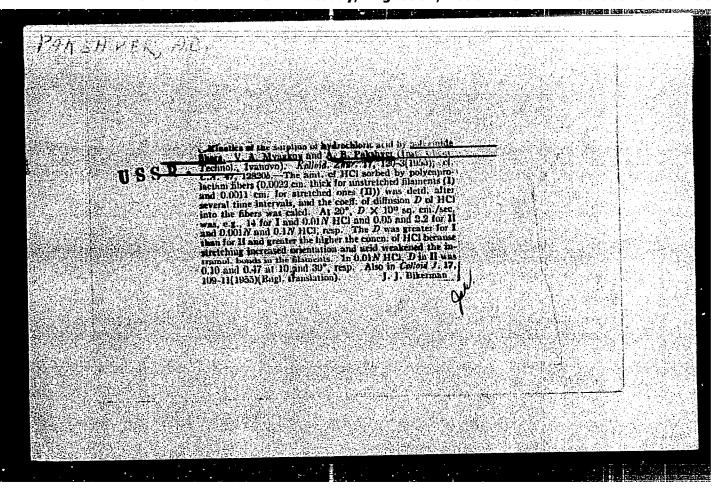
prom.15 no.10:45-46 0'55.

(Textile fabrics)









THE HARD THE STATE OF THE SERVICE OF

PAKSHVER, A.B.

USER/Chemical Technology - Chemical Products and Their

I-24

Application. Synthetic Fibers

Abs Jour : Referst Zhur - Khimiya, No 4, 1957, 13722

Author : Pakshver A.B.

Inst : Ivanovo Chemico-Technological Institute

Title : Rate of Interaction of Cellulose Hydrate Fibers and

Films with Solutions of Caustic Alkalies

Orig Pub : Tr. Inanovsk. khim.-tekhnol. in-ta, 1956, No 5, 131-138

Abstract : The interaction is determined by the rate of diffusion

of the reagent into the fiber. Under non-stationary reaction conditions, the are usual in finishing of cellulose hydrate fibers, the reaction is determined by the coefficient of internal diffusion D<sub>1</sub> of non-stationary process. Under stationary conditions of diffusion of the reagents through the film, in addition to diffusion rate of some significance becomes the reaction velocity cons-

tant K. Value of diffusion coefficient D2 of a

Card 1/2 - 371 -

PHILLIPULL FIS

USSR /Chemical Technology. Chemical Products and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32213

Author : Pakshver A.B.

Title : Treatment with Resins of Fabrics made from

Staple Fibers

Orig Pub: Tekstil'naya prom-st', 1956, No 6, 47-48

Abstract: Urea-formaldehyde and melamine-formaldehyde

resins prevent the shrinkage of fabrics. Their disadvantage is the gradual removal of the resin and restoration of the shrinking capacity of the fabric during laundering. In order to pro-

Card 1/4

USSR /Chemical Technology. Chemical Products and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32213

duce a fabric that would not shrink it is necessary to subject it to finishing operations and drying in a free state without any stretching. With increase of the temperature of treatment the stability of the resin finish to laundering increases. At temperatures above 140° a complete fixation of the resin is attained in less than 5 minutes. At 135°-140° -- within 15 minutes or longer. Melamine resin is more resistant to laundering than the urea resin. Preparations of the AMD type require a higher temperature of treatment than melemine resin without additives.

Card 2/4

USSR /Chemical Technology. Chemical Products and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32213

It is possible that this is due to the presence, in the AMD resin, of a plasticizer -- hydroxy-methyl-stearylamide. During the process of thermal treatment with the resin the mechanical properties of the fabric are impaired (the number of folding that the fabric withstands, while being heated, decreases). Treatment of fabric with AMD increases sharply its resistance to folding, apparently due to the presence of a plasticizer. Hence, regardless of the treatment of the fabric with resin, it is advantageous to plasticize the fabric. There is a rectilinear correlation between the resin content of the

Card 3/4

USSR / Chemical Technology. Chemical Products and Their Application

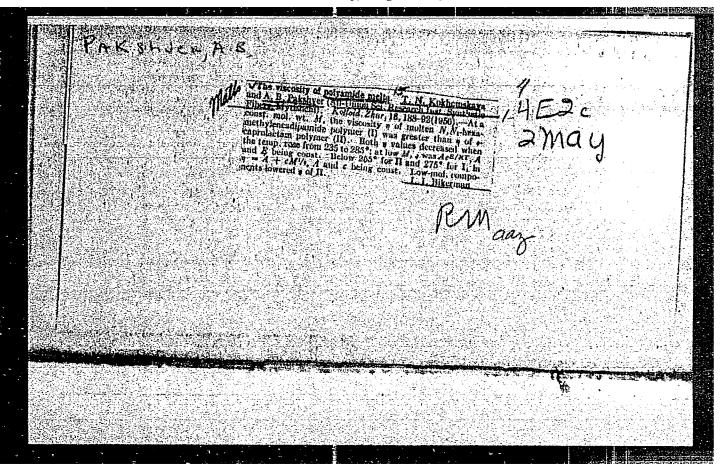
I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32213

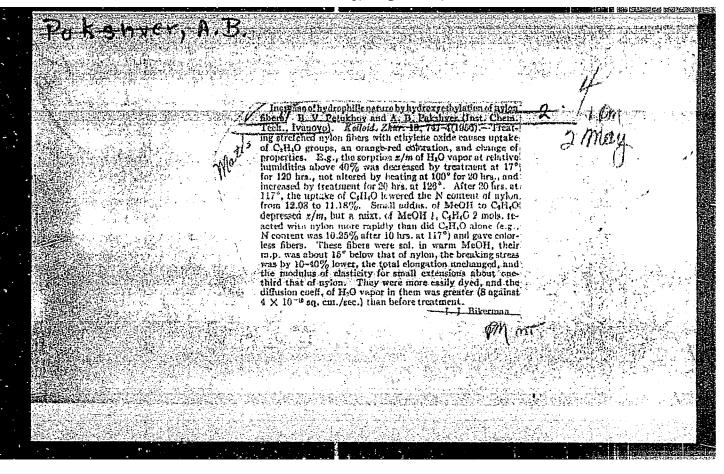
fabric and its resistance to shrinking during laundering. Therefore the resins which are less soluble in water or are better retained by the fabric during laundering, prevent the shrinkage of the fabric for a longer period.

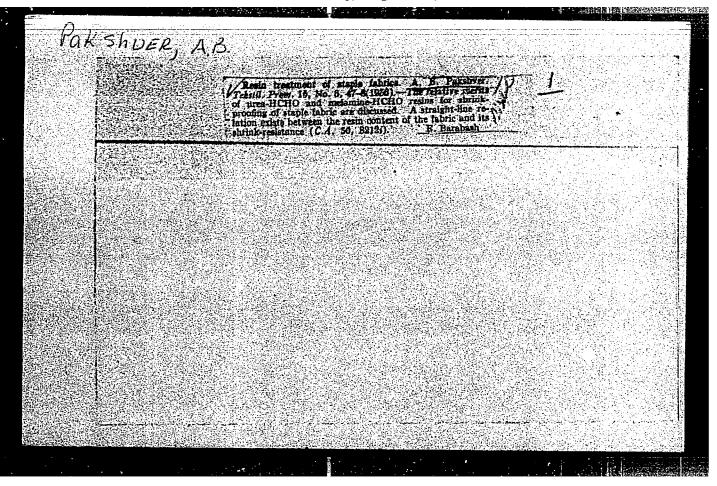
Card 4/4



### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238





45 MAKSHU L

USSR/Chemical Technology. Chemical Products and Their Application -- Synthetic

fibers, I-24

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6325

Author: Pakshver, A. B.

Institution: None

Title: Collaboration Between Science and Technology in the Field of

Synthetic Fiber Manufacture

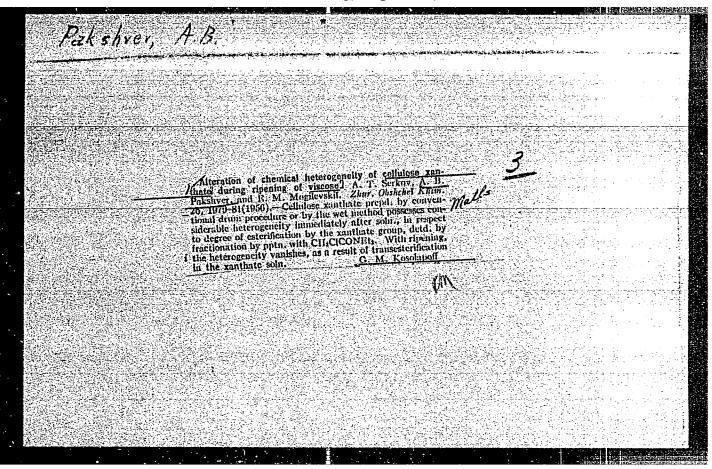
Original Publication: Tekstil'n. prom-st', 1956 No 7, 15-18

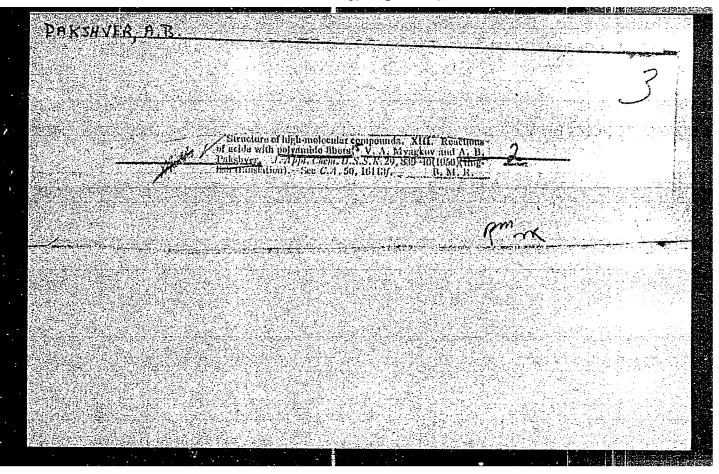
Abstract: Brief summary of papers presented at the conference of representa-

tives of USSR and countries of people's democracy, held at Moscow

in April 1956.

Card 1/1





IK HILL HOLL

USSR/Chemical Technology. Chemical Products and Their Application -- Synthetic fibers, I-24

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6346

Author: Myagkov, V. A., Pakshver, A. B.

Institution: None

Title: Interaction of Acids with Polyamide Fiber

Original

Publication: Zh. prikl. khimii, 1956, 29, No 5, 774-783

Abstract: On treatment of polyamide fiber with solutions of strong acids, with

a low concentration of the acid the latter undergoes salt-like combination with the terminal amino groups. In neutral solutions of acid dyes the same amino groups combine with anions of the dyestuffs. Sorption of anions of electrolytes by terminal amino groups takes place stoichiometrically. Interaction of electrolytes with amino groups of the polyamide takes place not according to the equation of

Gilbert and Rideal but according to an ion-exchange mechanism. Equilibrium constants of the reactions of terminal amino groups

Card 1/2

Juin 2/2

CIA-RDP86-00513R001238

USSE Physical Chemistry.
Tomatography. Io

Surface Phenomena. Adsorption.

B-13

Chromatography. Ion Exchange.

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22546.

: V. A. Myagkov, A. B. Pakshver. Author

: Not given Inst

: The Interaction of Bases with Polyamide fibers. Title

Orig Pub : Zhur. prikl. khimii, 1956, 29, No 8, 1229-1235 (russ).

Abstract: Strong bases interact with polyamide (I) carboxyl and groups

(EG) producing salt-like compounds. By treating I with weak solutions of basic dyes, EG is linked by dye cations only. Obtained data do not confirm Ryedil-Gilbert's absorption theory and indicate that interaction of bases with EG of I proceeds according to an ionic exchange mechanism. Carboxyl EG react independently regardless of end aminogroups. Basic sorption process is well described by equations of ion exchange reactions and is determined by ion concentrations i.e., by I dissociation constants. Equilibrium constants increase with the growth of base extion from  $1.0\cdot10^6$  for KOH sorption by caprone to  $10^7$  for triethyl benzylammonium hydroxide sorption and to  $1.8\cdot10^{12}$  for methylene blue cation sorption.

Card 1/1

-189-

USSR/Physical Chemistry.

mistry. Surface Phenomena. Adsorption

B-13

Chromatography. Ion Exchange.

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22545.

Author: B. V. Petukhov, A. B. Pakshver.

Inst : Not given

Title : Steam sorption by caprone fiber.

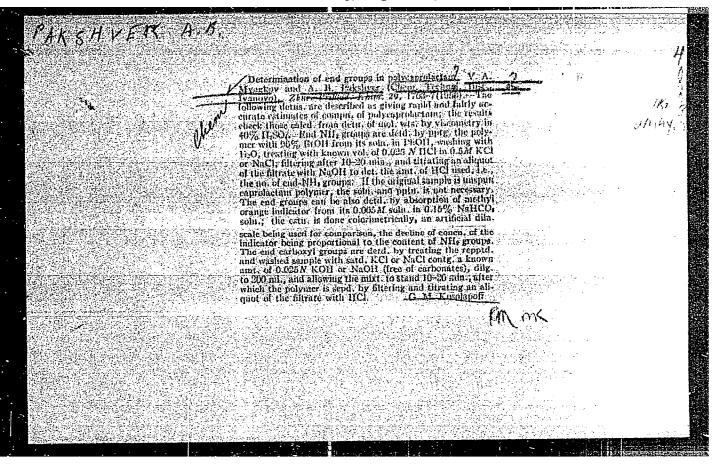
Orig Pub: Zh. prikl. khimii, 1956 29, No 8, 1236-1242 (russ).

Abstract : Oriented caprone fibers, treated without tension by an aque-

ous phenol solution reduce steam sorption (S) at low values of relative humidity s and increase S at high s. Treatment of fiber under tension has no influence on the value and rate of S. Thermal treatment reduces S of steam; this reduction is stronger if the fiber is heated under tension, than when heated without one. The process of compression of molecular structure by heating caprone fiber proceeds very fast and ends in 30 seconds. Steam S does not depend on macromolecule orientation, but depends on the quantity of intermolecular bonds. At the relative humidity \$256, the diffusion coefficient does not depend on steam elasticity at given temperature. Deformation index of the caprone fiber increases sharply with the heating of the fiber by overheated steam under tension.

Card 1/1

-188-



PARSHVER, A.B., prefessor.

Present problems of synthetic fibers. Prireds 45 no.9:57-60 8 '56.
(Textile fibers, Synthetic)

(NIRA 9:10)

Paks huar, A.B.

PAKSHVAR. A.B., doktor tekhn.nsuk, red.; KOHKIN, A.A., doktor tekhn.nsuk, red.; KUKIN, G.B., doktor tekhn.nsuk, red.; GUSEVA, Ye.M., red.; MEDVEDEV, L.Ya., tekhn.red.; KOGAH, V.V., tekhn.red.

[Handbook of analytical control in the manufacturing of artificial and synthetic fibers] Spravochnik po analiticheskomu kontroliu v proizvodstve iskusstvennykh i sinteticheskikh volokon. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1957. 565 p. (MIRA 11:2)

(Textile industry -- Quality control)

ROGOVIN, Zakhar Aleksendrovich; PAKSHVER, A.B., prof. doktor tekhn.nauk, retsenzent; MEOS, A.I., prof., doktor tekhn.nauk, retsenzent; LIOZNOV, A.G., red.; DMITRIYEVA, N.I., tekhn.red.; KOGAN, V.V., tekhn.red.

[Fundamentals of the chemistry and technology of producing synthetic textile fibers] Osnovy khimii i tekhnologii proizvodstva khimicheskikh volokon. Izd. 2-oe, perer. i dop. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1957. 743 p. (MIRA 11:2) (Textile fibers, Synthetic)

FARSHVER, A. TE

"Changes of intermolecular binding by the stretching and unnealing of fibers," a paper presented at the Oth Congress on Chemistry and Physics of Migh Polymers, 2° Jan- 2 Feb 57, Moscow.

B-3,084,395

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

H-32

TAK born A B

CHINA/Chemical Technology, Chemical Products and Their

Application, Part 4. - Artificial and Synthetic

Fibers.

Abs Jour: Referat. Zhurmal Khimiya, No 10, 1958, 34561.

Author : A.B. Pakshyer.

Inst : Not given.

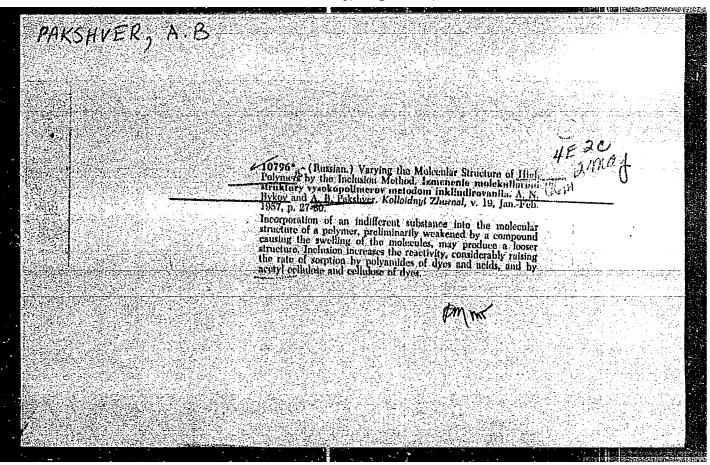
Title : Present Problems of Artificial Fibers.

Orig Pub: Gaofen'tsza tunsyun', 1957, 1, No 2, 117-119.

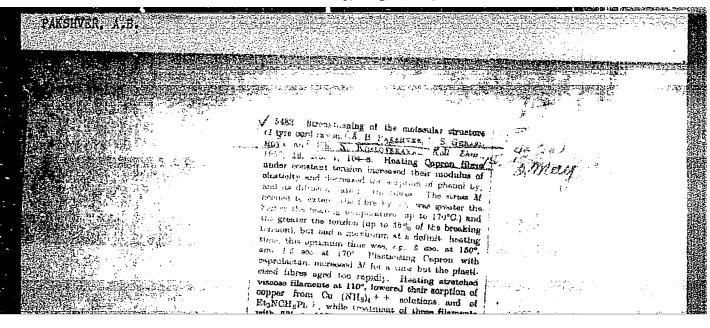
Abstract: Translation. See RZhKhim, 1958, 19976.

Card : 1/1

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



PAKSHVER, A.B.; NATAH, B.Ye.; KATUSHKIMA, I.F.

Study of the intermolecular structure of thermoplastic fibers.

Koll. shur. 19 no.1:109-112 Ja-F '57. (MLRA 10:4)

1. Ivanovskiy khimiko-tekhnologicheskiy institut. (Textile fibers, Synthetic)

POKROVSKIY, L.I.; PAKSHVER, A.B.

Changing the intermolecular structure of capron fiber by heating [with summary in English]. Koll.zhur. 19 no.4:478-482 Jl-Ag '57.

(MIRA 10:10)

1.Ivanovskiy khimiko-tekhnologicheskiy institut, Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti.

(Nylon)

```
BYKOV. A.N.: IVANOVA, M.I.: PAKSHVER, A.B.

Altering the properties of polyamides by the inclusion method
[with summary in English]. Ecoll.zhur. 19 no.5:542-547 S-0 '57.

(MIRA 10:10)

1.Ivanovskiy khimiko-tekhnologicheskiy institut.

(Amides)
```

SERKOV, A.T.; MOGILEVSKIY, Ye.M.; PAKSHVER, A.B.

Pormation kinetics of alkali cellulose. Zhur.prikl.khim. 30 no.2:309-310
F '57.

(MLRA 10:5)

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

(Celluose)

MATISSEN, Petr Petrovich; KISELEVA, Mataliya Sergeyevna; PAKSHVER, A.B., retsensent; YUNITSKIY, B.P., retsensent; VARSHAVSKAYA, L.S., red. EMAKEIN, M.T., tekhn. red.

[Manufacture of rayon staple] Proisvodstvo viskosnogo shtapel'nogo volokna. Isd.2., dop. i perer. Moskva, Gos. nauchno-tekhn.
isd-vo lit-ry po legkoi promyshl., 1958. 243 p. (MIRA 11:9)
(Rayon)

AUTHORS:

Matveyeva, S. P., Geller, E. E.,

sov/15655-3-39,52

Pakshver, A. B.

TITLE:

The Influence of the Properties of the Polyacrylnitrile Filer on the Conditions for Dying it (Vliyaniye svoyatv poliakriloni-

tril'nogo volokna na usloviya yego krasheniya)

PERIODICAL:

Nauc: nyye doklady vysshey shkoly, Khimiya i khimicneskaya tekhnologiya, 1958, Nr 3, pp. 593 - 555 (USSR)

ABSTRACT:

The dying of synthetic fibers depends on the rate of diffusion. of the coloring substance in the interior of the fi ber. The diffusion coefficient of the coloring substance in the polyacrylnitrile fiber is very small, which makes it difficult to dye. Newly-produced fiber can be dyed well and evenly with

acid and tasic coloring substance after washing and lefore complete drying. After the drying process the fiters lose almost completely their absorptive power for the colori: g substances The experiments carried out showed that a sarisfactory dying of the polyacrylnitrile fiber is possible only when the fiber is slightly swollen prior to its complete drying. There are 1

figure and 7 references, 5 of which are Soviet.

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012388

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

The Influence of the Properties of the Polyacrylnitrile Fiber on the Conditions for Dying it

\*\*Rafedra khimichenkoy tekhnologii voleknistyki.\*\*

\*\*Rafedra khimichenkoy tekhnologii voleknistyki.\*\*

materialev Vsecoyuznogo zaochnogo instituta teknill'nev i lesk y materialev Submitted in the Chemical Technology of Ficer propaysuleanesti (Chair for the Chemical Technology of Ficer

01/153-58-5-16, 20 5(1, 3)Rybkulova, N. M., Geller, B. E., Pakshver. AUTHORS:

Investigation of the Mechanism of Darkening and of the De-TITLE:

coloring Methods of Spinning Solutions and of the "Nitron"

Fiber (Issledovaniye mekhanizma potemneniya i metodov

obestsvechivaniya pryadil'nykh rastvorov i volokna "nitron")

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya PERIODICAL:

tekhnologiya, 1958, Nr 5, pp 107-113 (USSR)

Synthetic chemical fibers should have a uniform color. In the ABSTRACT:

production of polyacrylonitrile fibers, especially of the "Nitron" fiber 15-16% spinning solutions of polyacrylonitrile (PAN) in dimethyl formamide (DMF) can have colors from light yellow to dark prown. This is caused by the stability of the polymer, the quality of the solvent and other factors. The color of the fiber depends on that of the spinning solution. The problem of producing white fibers has been many times discussed in publications (Refs 1-10). The present paper serves the purpose of explaining the causes of the phenomena of colors

of concentrated solutions of PAN in DMF, as well as in the

ready fiber. Furthermore production methods of white fibers Card 1/3

sov/153-58-5-18/26

Investigation of the Mechanism of Darkening and of the Decoloring Methods of Spinning Solutions and of the "Nitron" Fiber

were to be decised. PAN, PAN solutions in DMF, films and fibers were investigated. Tables 1 and 2 as well as figures 1-4 give the results obtained. Since spinning solutions as well as freshly formed fibers become yellow or dark on a longer heating to 100° it must be assumed that DMF is suponified in an aqueous medium. Colored amidine compounds are formed by the interaction of the separated dimethyl amine and ammonia with the polymer (CN-groups). This assumption was proved by 3 facts experimentally checked (Figs 3, 4). The causes are admixtures in DMF, as there are H-COOH, NH<sub>3</sub> and (CH<sub>3</sub>)2NH. The substances of basic

character present in the spinning solution lead to a darkening, those of acid character brighten the solution. Acids forming compounts with ammonia and smines and which are capable of entering reactions with -CN-groups are an exception. A scheme of the mechanism of this reaction was suggested. Production methods of the white polyacrylonitrile fibers was devised. The authors recommend usage of a) a pure solvent, as well as substances that bind dimethyl amine and ammonia to a non volatile solid compound, and which are incapable of reacting with the

Card 2/3

Investigation of the Mechanism of Darkening and of the Transport of Spinning Solutions and of the "Nitron" Fiber

-CN-groups of the polymer. They are  $\rm H_2SO_4$ ,  $\rm SO_2$ ,  $\rm H_2C_2O_4$  and others. b) To carry out an acid treatment of the ready fiber with weak acid solutions, and c) to bleach the ready fiber wacid solutions of sodium chlorite. There are 4 figures, 2 tables, and 15 references, 11 of which are Soviet.

ASSOCIATION:

Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshien nosti i vsesoyuznyy nauchno-issledovatel'skiy institut iskuss vennogo volokna (All-Union Correspondence Institute for Textile and Light Industry, and All-Union Scientific Research Institute for Synthetic Fibers)

SUBMITTED:

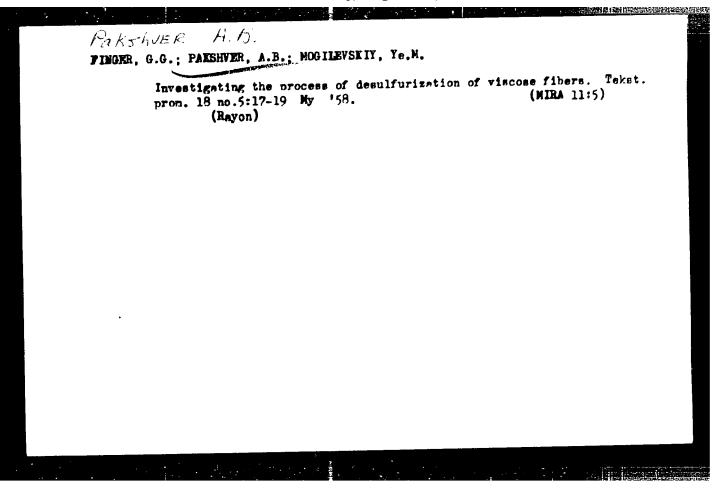
January 11, 1958

Card 3/3

POKROVSKIY, L.I.; PAKSHVER, A.B.

Improving physicomechanical indices of capron cord fiber by means of heat treatment. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.6:95-96 '58. (MIRA 12:4)

1. Ivanovskiy khimiko-tekhnologicheskiy institut. (Textile fibers, Synthetic)



THE RESERVE OF THE PERSON NAMED IN COLUMN 1

PAKSHVER, A. B

AUTHOR:

Kharitonova, V.P., Pakshver, A.B.

69-20-1-16/20

TITLE:

The Effect of the Acetyl Group Content of Acetylcellulose on the Properties of its Solutions. (Vliyaniye soderzhaniya atsetil'nykh grupp v atsetiltsellyuloze na svoystva yeye

rastvorov)

PERIODICAL: Kolloidnyy Zhurmal, 1958, Vol XX, # 1, pp 110-117 (USSR)

ABSTRACT:

In the article, the properties of acetylcellulose solutions in connection with the content of bound acetic acid are investigated. The minimum of viscosity corresponds to the maximum of pliability of the macromolecules in the solution. The maximum of pliability may be observed at the least regular arrangement of the polar hydroxyl and acetyl groups. Such a distribution correponds to a content of 56.5-58.5% of bound acetic in the solution. The dependence of the specific viscosity on the content of bound acetic acid is shown in fig. 1. The heats of solution of acetylcellulose depend on the ratio of acetyl and hydroxyl groups. The highest values are observed in formic acid, the lowest in acetone (Fig. 3). The turbidity of acetylcellulose solutions changes 100 times in different solvents. The addition of small doses of a second component causing, solvation of the polar groups

Card 1/2

69-20-1-16/20

The Effect of the Acetyl Group Content of Acetylcellulose on the Properties of Its Solutions

of the acetylcellulose diminishes the turbidity by 40-60%. The increase of fractions with a low content of acetyl groups causes higher turbidity of the solutions.

There are 3 figures, 7 tables, and 11 references, 7 of which are Soviet, 2 American, 1 English, and 1 German.

ASSOCIATION: Ivanovskiy khimiko-tekhnologicheskiy institut

(Ivanovo Chemical-Technological Institute)

SUBMITTED: September 1, 1956

AVAILABLE: Library of Congress

Card 2/2

5(1,3)

AUTHORS:

Kharitonova, V. P., Babenkov, L. N., SOV/153-2-2-21/31

Pakshver, A. B.

TITLE:

The Influence of the Contents of Combined Acetic Acid in the Acetyl Cellulose on the Filtrating- and Spinning Property of the Production Solutions (Vliyaniye soderzhaniya svyazannoy uksusnoy kisloty v atsetiltællyuloze na fil'truyemost' i

pryadomost' proizvodstvennykh rastvorov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 2, pp 254-257 (USSE)

ABSTRACT:

During the production of acetate rayon considerable variations often occur between individual batches of acetylcellulose with regard to the filtrating- and spinning-property of the spinning solutions. The bad quality of the latter results in the breaking of the fibres during weaving. Therefore the authors made it their task to prepare quality indices of the spinning solutions, characterizing the filtrating- and spinning-property. These two properties depend on the interaction between the macro-molecules in

Card 1/4

the solution. This interaction depends in its turn on:
1) the physical and chemical heterogeneity of

The Influence of the Contents of Combined Acetic Acid SOV/153-2-2-21/3° in the Acetyl Cellulose on the Filtrating- and Spinning Property of the Production Solutions

acetyl-cellulose; 2) the homogeneity of the solution itselfthe existence of gel grains. Investigated were: 1) a batch
with good and one with bad spinning properties; 2) acetylcellulose with varying content of combined acetic acid, which
were obtained by saponifying an equivalent batch of the
primary acetate. Acetone, acetone-alcohol-, and acetone-watermixtures were used as solvents. The retardation of the
filtration (Table 1) was calculated from the determined
filtrating property of the solution (Ref 1). The retardation
of the filtration (Table 1) was calculated. Furthermore, the
spinning property of the solution (its elasticity) is being
calculated from the formula

A =  $(\frac{v-v_1}{v})$ .100 % (Ref 2), with A being the elasticity of

the jet in %; v-the top speed for the winding of the filament onto the bobbin, at which the breaking of the filament occurs in m/sec. Results are summarized in the table (p 255). A special laboratory device (Fig 1) was designed to

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The Influence of the Contents of Combined Acetic Acid SOV/153-2-2-21/31 in the Acetyl Cellulose on the Filtrating- and Spinning Property of the Production Solutions

determine the spinning property of the solutions. It was proved already previously (Refs 4,5) that the properties of the diluted acetyl-cellulose-solutions depend on their contents of combined acetic-acid. The quality of the solution deteriorates with the increase of fractions with a low content of acetyl groups in the acetyl cellulose. In this case the filtrating- and spinning-properties of the production-solutions (Ref 5) must apparently also be subject to a deterioration (confirmed in table, p 255). When the content of combined acetic-acid in the acetyl-cellulose decreases until below 55 %, the retardation of the filtration T increases and the elasticity of the jet of solution A drops, which means a deterioration of the spinning property. Acetyl-cellulose with 55.3-56.3 % of combined acetic-acid shows the best qualities. Different solvents solvate the acetyl-celluloses of different esterifying degrees (Ref 5) in a different way. Consequently, the interaction between the macro-molecular chains in concentrated solutions must also be different and the stronger, the weaker the solvating

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The Influence of the Contents of Combined Acetic Acid SOV/153-2-2-21/31 in the Acetyl Cellulose on the Piltrating- and Spinning Property of the Production Solutions

action of the solvent, The ketone group of acetone favors solvating, by linking the dipol-groups of the acetones through the acetyl-cellulose. The solvating degree drops with a decrease in the number of acetyl-groups and with an increase of hydroxyl-groups in the acetyl-cellulose. At the same time the reciprocal action between the chains goes up and the possibility of forming gel grains increases. S. S. Frolov, Docent, gave valuable advice. There are 2 figures, 1 table, and 5 Soviet references.

ASSOCIATION:

Ivanovskiy khimiko-tekhnologicheskiy institut i Vsesoyuznyy zaochnyy institut legkoy i tekstil'noy promyshlennosti (Ivanovo Chemical-technological Institute and All-Union Correspondence-institute for Light- and Textile Industry)

SUBMITTED:

March 12, 1958

Card 4/4

5(1,3)

AUTHOR: Finger, G. G., Pakshver, A. B.,

SOV/153-2-2-22/31

· I - HERRICH BURDON STREET

Mogilevskiy, Ye. M.

TITLE:

The Influence of the Structure of the Viscose Fibre on the Rate of the Removal of Sulphur From Fibre (Vliyaniye struktury viskoznogo volokna na skorost' ulaleniya sery iz

volokna)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 2, pp 258-262 (USSR)

ABSTRACT:

The viscose fibre and the hydrate-cellulose-films possess a very irregular molecular structure. This is a result of the fast extraction of the cellulose-molecules from the spinning-solution. It affects the dissolution-rate of the fibre in alkali (Ref 1), the iodine and copper sorption from the solutions (Ref 2), the dye-stuff and alkali diffusion (Ref 3) of the films, et al. These differences of the molecular

structure have a particularly strong influence on the removal of sulphur from fibres and films. As is well

known, sulpaur containing secondary compounds deposit

during their decomposition elementary sulphur, which partly

Card 1/4 remains within the fibre and must be removed when being

The Influence of the Structure of the Viscose Fibre SOV/153-2-2-22/31 on the Rate of the Removal of Sulphur From Fibre

cleaned (desulphurated). Since this process must be considerably accelerated, the authors undertook the present investigation. It deals with the influence of the molecular structure of the hydrate-cellulose-fibres and films on the rate of the sulphur-removal. The influence of the medium on this rate was also investigated. The usual viscose-acetate rayon (elementary-number 2,000-2,500), were examined dried and undried, wetstretched and dried in a stretched state. Furthermore, rayon with different degrees of decomposition of the cellulose-xanthogenates was tested. For the purpose of comparison, the diffusion-rate of colloidal-sulphur by freshly formed cellulose-film (cellophane) was determined. The solutions of NaOH, NaoS, and Na2SO3, which are used in practice, as well as water with the addition of surface-active-agents (oxyethylated alkylphenol OP-10) and solutions of sulphuric acid were used for desulphurating. The results are shown in table 1. As may be seen, the diffusion-coefficient D changes during the sulphur-removal from the viscose-fibre within very wide

Card 2/4

THE REPORT OF THE PROPERTY OF

The Influence of the Structure of Viscose Pibre on SOV/153-2-2-22/31 the Rate of demoval of Sulphur From Pibre

limits:  $5.10^{-15} - 5.10^{-7}$  (at 80°). At the same time, the coefficient passes 3 sharply distinguishable zones: a) it approaches 0 during the treatment of fibre in a swelled condition; b) it increases up to  $1.10^{-10} - 100.10^{-10}$  in an acid- or neutral medium and c) it increases to 5,000.10-10 during desulphuration in an alkaline medium. This distinction is explained by a fundamentally different mechanism of sulphur-diffusion in different media. On the basis of their results, the authors arrive at the following conclusions: 1) The sulphur-diffusion can take place according to two mechanisms: a) by sublimation and b) by secondary sulphur-condensation as crystals of the rhombic sulphur, 1658. 2) The rate of the displacement of the sulphur particlasin the fibre depends on the size of the pores in the fibre. In a normally swelled fibre the size of the pores enables this displacement at a varying rate, according to the degree of swelling of the fibre. 3) An addition of

surface-active agents (OP-10 for example) considerably accelerates the sulphur-diffusion, that is owing to the

dispersion and reduction of the aggregate-size.

Card 3/4

Viscose Fibre on SOV/153-2-2-22/31 The Influence of the Structure of Pibre Bulphur From **Hemoval** of the Rate of

> 4) In alkalic surroundings, the sulphur is transformed into ions of the sulphur-compounds and the diffusion is accelerated 1,000 times and more. 5) The sulphur-diffusion-rate depends on the degree of the formation-perfection of the viscosefibre, that is on the amount of the remaining xanthogenate groups. There are 2 tables and 7 references, 6 of which are Soviet.

ASSOCIATION:

Vsesoyuznyy zaochnyy institut legkoy i tekstil'noy promyshlennosti i Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna; Kafedra tekhnologii voloknistykh materialow (All-Union Correspondence-institute for Lightand Textile Industry and All-Union Scientific Researchinstitute for Synthetic Fibre; Chair of Technology of

Pi bres

SUBMITTED:

April 23, 1958

Card 4/4

BEDER, N.M.; GELLER, B.E.; PAKSHVER, A.B. Molecular composition of polyacrylonitrile. Khim. volok. no.2:33-36 '60. (NIRA 13:12) 1. Kalininskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna. (Acrylonitrile)

ZAKHAROV, V.S.; ZELENTSOV, I.G.; PANSHVER, A.B.

Structural changes in viscose fiber in the process of spinning. Khim.volok. no. 6:30-32 '60. (MIRA 13:12)

1. Kalininskiy filial Vsesoyusnogo nauchno-issledovatel skogo instituta isskusstvennogo volokna.

(Rayon spinning)

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GEILER, A.A.; PAKSIVIII, A.B.

Effect of the structure and winder of polymum and proups on the dyeing of polyacrylonitrile fibor. Khin.volok. nc.1:1.-18 '61.

(MI A 1A:2)

1. Vsesoyuznyy nauchno-isaledovatel*skiy institut stakkyana o volokna.

(Orlon) (Dyes and dyein --Textile fillers, Symthetic)
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Production of twisted viscose fiber (From "Man-Vale Acxtiles," no.442, 1959). Khim.volok. no.1:77 '61. (\*\* A 14:2)

**S/183/61/000/**001/004/006 B101/B205

AUTHORS:

Pakshver, A. B., Kazachkova, T. M.

TITLE:

New method of characterizing the structure of polyacryl nitrile

fiber

PERIODICAL: KF

Khimicheskiye volokna, no. 1, 1961, 22-24

TEXT: A rapid laboratory method has been worked out for determining the structure of polyacryl nitrile fiber (PAN), i.e., the presence of micropores, loose sites, and other inhomogeneities which affect the behavior of the fiber during treatment and dyeing. Laboratory tests have hitherto been made by simulating the manufacturing process. As the number of inhomogeneities has an effect on diffusion, calorimetric measurement of the amount of heat liberated by PAN swelling in dimethyl formamide within the first five minutes has been suggested. A figure shows that the liberation of heat (0.4-7.2 cal/g after 1 min; 0.7-8.7 cal/g after 2 min; 1.8-13.7 cal/s after 5 min) depends on the method of PAN synthesis and its preliminary treatment. The liberated heat approaches equilibrium: Q<sub>0</sub> = 12.5 cal/g (determined in an adiabatic calorimeter). The coefficient Q<sub>1</sub>/Q<sub>0</sub> (Q<sub>1</sub> = first minute) varied Card 1/2

**\$/**183/61/000/001/004/006 B101/B205

New method of ...

from 0.080 to 0.376, depending on the degree of homogeneity of PAN. In addition, the structural density was determined from the specific gravity. Freshly precipitated PAN fiber had a specific gravity of 1.626, which was increased to 1.794 by drawing and oiling. Treatment with water reduced the specific gravity, whereby the micropores were enlarged and new ones were formed. There are 1 figure, 2 tables, and 12 Soviet-bloc references.

ASSOCIATION: VNIISV (All-Union Scientific Research Institute of Synthetic Fiber)

Card 2/2

BEDER, N.M.; PAKSHVER, A.B.

1,

Properties of polyacrylonitrile solutions. Khim.volok. no.3:21-24
'61. (MIRA 14:6).

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

(Acrylonitrile polymers)

L 21752-65 EWT(m)/EPF(c)/EWP(j)

Pc-4/Pr-4 5M

ACCESSION NR: AP5000753

8/0191/64/000/012/0042/0044

AUTHOR: Mol'kova, G.N., Fil'bert, D.V., Pakshver, A.B.

TITLE: Fractionation of polypropylene

B

SOURCE: Plasticheskiye massy\*, no. 12, 1964, 42-44

TOPIC TAGS: polypropylene, polymer fractionation, column chromatography, polymer molecular weight

ABSTRACT: The authors discuss the molecular weight distribution of polypropylene and methods for its chromotographic fractionation. The molecular weight was determined from viscosity measurements after fractionating on a quartz sand-packed column, using a temperature gradient of 146-180C, and increasing decalin concentrations in the stabilized acctone-decalin mixture used for clution. Fractions were precipitated with acctone, dissolved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested on a capillary viscosim-solved in decalin containing 1% phenyl-A-nephthylamine, and tested

Card 1/2

L 21752-65

ACCESSION NR: AP5000753

regions of low and high molecular weight. Crystallinity reached a maximum at a molecular weight of 300,000-400,000 and a minimum at 100,000-200,000, and fractions of low crystallinity and medium molecular weight were apparently washed out during production and therefore nearly absent in the fractionated samples. Fractionation obviously depends on both molecular weight and degree of crystallinity. Orig. art. has: 1 table, 5 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 000

OTHER: 010

Card 2/2

Fig. 80.1., 80.180VA. G.N., PAKSHVER. A.B.

Allect of the molecular weight distribution in polypropylene
on fiber properties. Khim. volok. no.516-8 '65.

(MIRA 18:10)

1. VNIISV.

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ACC NR. AR6000276

SOURCE CODE: UR/0081/65/000/01;/S103/S103

AUTHOR: Gerasimova, L. S.; Veziryan, S. Ye.; Pakshver, A. B.

TITLE: Measuring relaxation stresses in polyacrylonitril fiber

SOURCE: Ref. zh. Khimiya, Abs. 148689

REF SOURCE: Sb. nauchno-issled. rabot Khimiya i khim. tekhnol. vysoko-molekul. soyedineniy. Tashkentsk. tekstil'n. in-t, no. 1 (17), 1964, 218-229

TOPIC TAGS: synthetical test at the polyacrylonitrile, relative the pecu-

ABSTRACT: An isometric heating method was used in studying the peculiarity of polyacryllonitril fiber submolecular structure depending on the condition of forming and finishing. It consists of measuring stresses taking place during heating of the fiber. According to the authors the measured stress characterizes: the degree of deviation of structural elements and individual macromolecules in the fiber from the equilibrium state; the relaxation stress by which individual macromolecules or the structural elements which obtained relative freedom

**Card** 1/2

L 29968-66

ACC NR: AR6000276

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during heating tend to relax and assume a most appropriate shape and arrangement. The intensity of the processes depends on the surrounding in which the heating of the fiber takes place. Temperature-stress curves for various polyacrylonitril fibers are given in the article. It is shown that the magnitude of the relaxation increases with an increase in the swelling agent. Isometric heating of the fiber increases relaxation stresses as well as slipping of the structural elements. The isometric heating method is sensitive to the formation of the fiber, and can be used in the study of supermolecular structure.

E. Faynberg

SUB CODE: /// SUBM DATE: 25Jul65

Cord 2/2 (1 C

GENASIMOVA, L.S., ispolnyayushchiy ohyazannosti starshego nauchnogo sotrudnika; PAKSHVER, A.F., prof.

Isometric method for the evaluation of synthetic fibers.
Tekst. prom. 25 no.4:59-63 Ag '65. (MIRA .P:f.)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sintetioneskogo volkona (for Gerusimova, Pakshver).

FIRHMAN, V.D.; ASH, M.A.; VOROB'YEV, Ye.A.; PAKSHVER, A.B.

Mechanism of the fermation of polyvinyl chloride fibers. Khim. volok. no.1:28-34 '65. (MIRA 18:2)

1. VNIISV (for Fikhman, Ash, Pakshver). 2. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti (for Vorob'yev).

	。 第一章
VIREZUS,	ALLE CONCLUSION OF KAME, S.F.
	<pre>hetermining also survives or visions. This, volst. or.l 1000 of /his, this.</pre>
	1. Vseabyuznyy nauchnowiesledowiteliskyy institut iezo etzenzo. volokna (for Virezub, Cinzberg, 2. Vsesbyuznyy zaodnyy institut tekstilinoy i legany promyshiennosti (for Fakshyer).

BEDER, N.M.; ANDREYEVA, A.S.; PAKSHVER, A.B.

Polymerization of acrylonitrile in the presence of bi- and Polymerization of acrytonic life in the property polyfunctional amines. Khim. volok. no.4:14-17 (MIRA 18:4)

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

GERASIMOVA, L.S.; PAKSHVER, A.B.

Studying the changes in the structure of synthetic fibers with the method of isometric heating. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.5220-26 \*64. (MIRA 1881)

1. Vsesoyuznyy zaochnyy institut tekstil\*noy i legkoy promyshlennosti i Vsesoyuznyy nauchno-issledovatel\*skiy institut sinteticheskikh volokon.

MOL'KOVA, G.N.; FIL'EERT, D.V.; PAKSHVER, A.B.

Fractionation of polypropylene. Plast. Eassy no.12:42-44 (64. (MIRA 18:3))

MANVELYAN, V.F.; lakehver, A.H., prof., doktor khim.nauk

Selecting temperature parameters for the thermal stantilization and dyeing of the "Meron" bulked yarn. Tekst.prom. 25 no.2:10-13 F \*65. (MIRA 18:4)

1. Zamestitel' glavnogo khimika Vsesoyuznogo nauchno-issledovatel'-skogo instituta torfyanoy promyshlennosti (for Manvelyan). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyannogo volokna (for Pakshver).

L 6645-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4/Pa-4 RPL/AFETR/SSD/AFWL/

ASD(m)=3 JW/RM ACCESSION NR: AP4042736 S/0183/64/000/004/0014/0017

AUTHORS: Beder, N. M.; Andreyeva, A. S.; Pakshver, A. B.

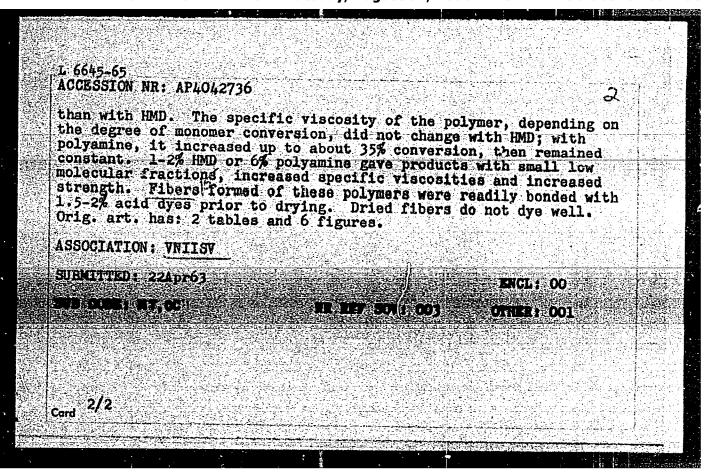
TITLE: Polymerization of acrylonitrile in the presence of bi- and

polyfunctional amines

SOURCE: Khimicheskiye volokna, no. 4, 1964, 14-17

TOPIC TAGS: acrylonitrile, polymerization, polyacrylonitrile, polyamine, polycondensation, dye sorption, dyeability, polymer strength, yield, monomer conversion, specific viscosity, molecular weight,

ABSTRACT: Polyacrylonitrile obtained by polymerization of acrylonitrile in the presence of hexamethylenediamins (HMD) and its condensation product with formalin (polyamine) contained basic terminal groups and only a small amount of low molecular fractions. The maximum possible amount of polyfunctional amine regulator (as determined by sorption of acid dyes) entered the polymer when only persulfate (instead of persulfate + metabisulfite) was present in the polymerization system. The induction period was reduced by polymer-polymerization system. Sorption of dye was higher with polyamine



MIKHLIN, I.A., inzh.; PAKSHVER, A.B., doktor tekhn. nauk

Continuous deseration of viscous soltutions. Izv. vys. ucheb. zav.; tekh. leg. prom. no.5:51-55 '63. (MIRA 16:12)

1. Sovmestnaya issledovatel'skaya laboratoriya Kiyevskogo kombinata iskusstvennogo volokna i Kiyevskogo ekeperimental'nogo zavoda (for Mikhlin). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh volokon (for Pakshver). Rekomendovana kafedroy tekhnologii iskusstvennykh i sinteticheskikh volokon Kiyevskogo tekhnologicheskogo instituta legkoy promyshlennosti.

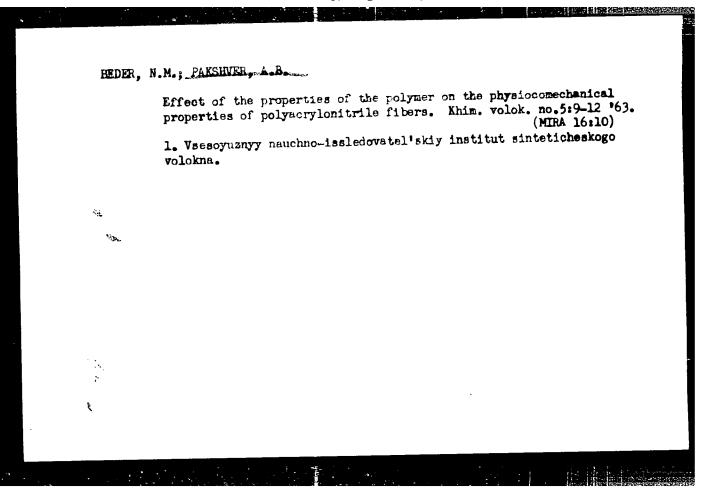
HARRIED BETTER B

HEDER, N.M.; PAKSHVER, A.B.

Effect of the polymer properties on the physicomechanical properties of the polymerylonitrile fiber obtained. Khim.volok no.6:6-9 '63.

(MIRA 17:1)

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



L 17478-63 EWP(1) ACCESSION WRI AP3004762	/BEI (W)/ DUG A.W 12-9	3/0183/63/000/004/0042/0045
AUPHCRS: Gerasimova, L. I	., Pekshver, A. B.	
TRUE Internal fatigue	· · · · · · · · · · · · · · · · · · ·	1 59
SOURCE: Khimleheskiye vo		
	ess, fatigue stress, cellu	
ABSTRACT: The interdepend ulose fibers was shown. lowered their internal st at pH 4.5 decreased their tion deteriorated the ela improved the elastic prophas: 2 tables and 5 figures.	ence between internal stre Heating viscose filaments; resses. Aqueous and acid internal stresses. Lower stic-properties, while for erties and fatigue stress;	as and fatigue stress of cell- at high temperatures (1400) treatment of viscose fibers ing the degree of polymeriza- mation of cross-acetal bonding of viscose fibers. Orig. art
ABSTRACT: The interdepend ulose fibers was shown. lowered their internal st at pH 4.5 decreased their tion deteriorated the elaimproved the elastic prophas: 2 tables and 5 figuration: VZITIP (All	ence between internal stre Heating viscose filaments; resses. Aqueous and acid internal stresses. Lower stic-properties, while for erties and fatigue stress;	as and fatigue stress of cell- at high temperatures (1400) treatment of viscose fibers ing the degree of polymeriza- mation of cross-acetal bonding of viscose fibers. Orig. art
ABSTRACT: The interdepend ulose fibers was shown. lowered their internal st at pH 4.5 decreased their tion deteriorated the ela improved the elastic prophas: 2 tables and 5 figures.	ence between internal stre Heating viscose filaments; resses. Aqueous and acid internal stresses. Lower stic-properties, while for erties and fatigue stress;	ss and fatigue stress of cellat high temperatures (1400) breatment of viscose fibers ing the degree of polymerizamation of cross-acetal bonding of viscose fibers. Orig. art

GERASIMOVA, L.S.; PAKSHVER, A.B.

Method for determining the internal stresses of rayon fibers.

Khimiwolok. no.2:33-36 '63. (MIRA 16:5)

1. Vsesoyuznyy saochnyy institut tekstil'noy i legkoy promyshlennosti (for Gerasimova). 2. Vsesoyuznyy naucino-issledo-vatel'skiy institut steklyanogo volokna (for Pakahver).

(Rayon-Tesning)

GERASIMOVA, L. S.; PAKSHVER, A. B.

Formation machanism of cross links in cellulose hydrate fibers. Khim. volok. no.6:22-25 '62. (MIRA 16:1)

1. Moskovskiy Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti.

(Cellulose) (Chemical bonds)

KHURGINA, R.A.; PAKSHVER, A.B.

Kinetics of viscose ripening process. Khim.volok no.4:34-37
162. (MIRA 15:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Khurgina). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyanogo volokna (for Pakshver).

(Viscose)

## KHURGINA, R.A.; PAKSHVER, A.B.

Kinetics of decomposition of cellulose xanthate and of formation of sodium trithiocarbonate in viscose. Khim.volok. no.2:25-30 (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna.

(Cellulose xanthates) (Sodium thiocarbonate) (Viscose)

RASSOLOV, O.P.; FAKSHVER, A.B.

Equipment for the continuous xanthation of alkali cellulose.

Khim.volok. no.6:33-35 \*61. (MIR. 1-:12

l. Vsesoyuznyy nauchno-issledovatel $^{\bullet}$ skiy institut iskusstvennogo volokna.

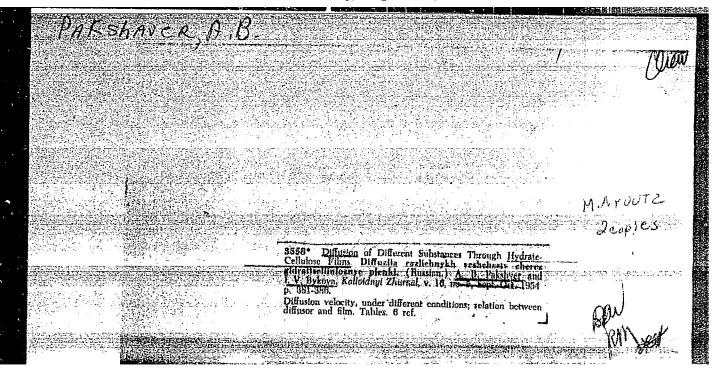
(Cellulose xanthates)

RASSOLOV, O.P.; PAKSHVER, A.B.

Effect of different factors on the exanthation of alkali cellulose. Khim.volok. no.3:25-29 '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel\*skiy institut iskusstvennogo volokna.

(Cellulose xanthates)



PAKSHVER, Aleksandr Bernardovich; GELLER, Beris Emmanuilovich; BABUSHKIMA, S.I., red.; KOGAN, V.V., tekhn.red.

[Chemistry and technology of the manufacture of nitron fiber]

Khimiis i tekhnologiis proisvodstva volokma nitron. Moskva,

Gos.nauchno-tekhn.isd-vo khim.lit-ry, 1960. 147 p.

(Orlon) (MIRA 14:2)

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