

Concerning the Application of Thermal
Diffusion to Dye Refining

75667
SOV/80-32-10-16/51

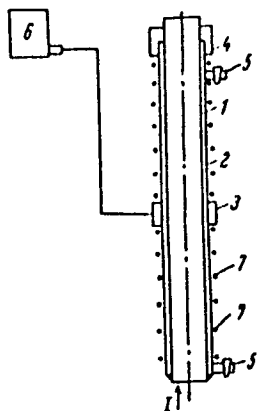


Fig. 2. Sketch of metal column: (1) internal tube; (2) external tube; (3) feeding device; (4) centering packing seal; (5) sampling cocks; (6) container for the investigated solution; (7) electric heating coil; (I) cooling water inlet.

Card 2/5

The concentration of prepared standard solutions of the corresponding dyes was determined in the same manner. The concentration K was established

Concerning the Application of Thermal
Diffusion to Dye Refining

75667
SOV/80-32-10-16/51

from the expressions

$$K_1 = \frac{D_1 B_2 - D_2 B_1}{A_1 B_2 - A_2 B_1} \cdot n.$$

$$K_2 = \frac{D_2 A_1 - D_1 A_2}{A_1 B_2 - A_2 B_1} \cdot n.$$

where A_1 and A_2 are, respectively, the optical densities of the standard solution of the first dye determined with light filters #1 and #2; B_1 and B_2 are, respectively, the optical densities of the standard solution of the second dye, as above; D_1 and D_2 are, respectively, the optical densities of the investigated solution of dye mixture with unknown concentration of the components, as above; K_1 and K_2 are, respectively, the concentrations of the first and second component dye (in g/l); n is the concentration of the standard dye solutions (in g/l). The concentra-

Card 3/5

Concerning the Application of Thermal
Diffusion to Dye Refining

75667
SOV/20-32-10-16/51

tion of the dye mixture K is the sum of K_1 and K_2 .
The concentration changes plotted against time showed that the concentration of the dye molecules in the lower half of the column increased, and that in the upper half decreased correspondingly. The value of the thermal diffusion separation is characterized by the separation constant q :

$$q = \frac{|C_1 : C_2|_{II}}{|C_1 : C_2|_I}$$

where C_1 are the relative molar concentrations of the solute (dye) and the solvent (water); indexes I and II pertain to the upper resp. lower half of the column. The maximum change in concentration was reached within the first 1-2 hr; subsequently the rate of the change decreased sharply. It was found that, in general, the concentration of a mixture of dyes increased in the lower part of the column. In case of a mixture of dyes with different molecular weights, it is the component with the lower molecular weight that accumulates predominantly in the lower part of the column

Card 4/5

Concerning the Application of Thermal
Diffusion to Dye Refining

75667
SOV/80-32-10-16/51

and in case of equal molecular weights, the component with the relatively shorter length of molecule. The separation constant could be increased by the application of a multistage cascade built from consecutively connected columns. The authors express their appreciation to Lykova, A. V., for her permission to conduct the experiments at the Physics Laboratory of the Moscow Technological Institute of the Meat and Dairy Industry. There are 4 figures; and 3 Soviet references, one of them a translation of Jones, K. and Ferry, W., The Separation of Isotopes by Means of Thermal Diffusion, publ. 1947 by IL.

ASSOCIATION: Dye Chemistry Laboratory of the Moscow Textile Institute (Laboratoriya khimii krasiteley Moskovskogo tekstil'nogo instituta)

SUBMITTED: November 28, 1958

Card 5/5

"APPROVED FOR RELEASE: 09/01/2001

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L 1354-66 EPF(c)/EWT(m)/ETC/EWG(m)/I/EWP(j) RPL DS/WW/RM
 UR/0286/65/000/015/0080/0080
 678.542
 678.744.322-13 32
B

ACCESSION NR: AP5024397

AUTHOR: Rogovin, Z. A.^{44,55}; Virnik, A. D.^{44,55}; Sharkova, Ye. F.^{44,55}

TITLE: A method for producing a graft copolymer. ^{44,55} Class 39, No. 173404 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 80

TOPIC TAGS: graft copolymer, cellulose plastic, acrylic plastic, methacrylate plastic, ion exchange resin, radical polymerization

ABSTRACT: This Author's Certificate introduces: 1. A method for producing a graft copolymer by radical graft copolymerization of cellulose and an ester of acrylic or methacrylic acid. A wider selection of monomers which can be grafted to cellulose is provided by using glycidylacrylate or glycidylmethacrylate. 2. A modification of this method in which an ion-exchange copolymer is produced by treating the finished graft copolymer in compounds which react with its α -oxide cycles, e. g. aqueous solutions of primary or secondary amines, sulfite or bisulfite of sodium.

ASSOCIATION: none
 SUBMITTED: 17Jun63
 NO REF SOV: 000

ENCL: 00
 OTHER: 000

SUB CODE: MT, GC

Card ^{KA} 1/1

MAHKAMOV, K., aspirant; VIRNIK, A.D., starshiy nauchnyy sotrudnik; ROGOVIN, Z.A.

Investigating the effect of the chemical structure of some stabilizers on the resistance to fading of cellulose acetate fabrics. Tekst.prom. 25 no.12:8-30 za '65.

(MIRA 18:4)

1. Institut khimii AN Tadzhikskoy SSR (for Makhkamov). 2. Moskovskiy tekstil'nyy institut (for Virnik). 3. Zaveduyushchiy kafedroy khimicheskikh volokon Moskovskogo tekstil'nogo instituta (for Rogovin).

YIRNIK, A.D.; CHEKALIN, M.A.

Investigating the dyeing of protein fibers with reactive dyes. Report No.1.
Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.6:109-115 '60.

(MIRA 14:1)

1. Moskovskiy tekstil'nyy institut.
(Dyes and dyeing)

VIRNIK, A.D.; MAKHKAMOV, K.; ROGOVIN, Z.A.

Development of methods for increasing the lightfastness and thermal stability of cellulose materials. Khim.volok. no.1: 47-50 '63. (MIRA 16:2)

1. Moskovskiy tekstil'nyy institut.
(Rayon) (Cellulose)

VIRNIK, A. D., Cand Tech Sci -- "Studies in the field of
interaction ^{between} of active dyes ^{and} with protein fibers." Mos, 1961.

(Min of Higher and Sec Spec Ed RSFSR. Mos Textile Inst)

(KL, 8-61, 241)

VIRNIK, A.D.; CHEKALIN, M.A.

Interaction of reactive dyes with α -amino acids and silk.
Zhur. VKHO 6 no.2:236-237 '61. (MIRA 14:3)

1. Moskovskiy tekstil'nyy institut i Nauchno-issledovatel'skiy
institut poluproduktov i krasiteley imeni K. Ye. Voroshilova.
(Dyes and dyeing--Silk) (Amino acids)

VIRNIK, A. D.; CHEKALIN, M. A.

Intermittent dyeing of silk with dichlorotriazene dyes. Tekst.
prom. 20 no.9:45-46 S '60. (MIRA 13:10)
(Dyes and dyeing--Silk) (Triazene)

ROGOVIN, Z.A.; SUN' TUN [Sun' T'ung]; VIRNIK, A.D.; KHVOSTENKO, N.M.

Synthesis of new derivatives of cellulose and other polysaccharides.
Part 19: Synthesis of cellulose graft copolymers and carbochain
polymers without a simultaneous formation of homopolymers.
Vysokom.soed. 4 no.4:571-576 Ap '62. (MIRA 15:5)

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

VIRNIK, A.D.; CHEKALIN, M.A.

Interaction of "active" dyes with α -amino acids. *Zhur. prikl. khim.*
35 no.3:588-593 Mr '62. (MIRA 15:4)

1. Moskovskiy tekstil'nyy institut.
(Dyes and dyeing) (Amino acids)

MAKHKAMOV, K.; PENENZHNIK, M.A.; VIRNIK, A.D.; ROGOVIN, Z.A.

Development of methods to increase the light-fastness of
cotton and acetate-cellulose fabrics. Izv.vys.ucheb. zav.
tekh. tekst. prom. no.6:112-117 '63 (MIRA 17:8)

1. Moskovskiy tekstil'nyy institut.

MARSHKINOV, K., aspirant; PELENZHNIK, M.A., laborant; VIRNIK, A.D.,
starshiy nauchnyy sotrudnik; ROGOVIN, Z.A.

Investigating the resistance to heat and fading of the
polymers of cellulose. Tekst. prom. 24 no. 5:62-66 My'64
(MIRA 19:1)

1. Institut khimii AN Tadzhikskoy SSR (for Makhkanov). 2. Ploksnaya nauchnaya laboratoriya kafedry khimicheskikh volokon Moskovskogo tekstil'nogo instituta (for Pelenzhnik).
3. Moskovskiy tekstil'nyy institut (for Virnik). 4. Zavodnyushchiy kafedroy khimicheskikh volokon Moskovskogo tekstil'nogo instituta (for Rogovin).

VIRNIK, A.D., mladshiy nauchnyy sotrudnik; CHEKALIN, M.A., starshiy
nauchnyy sotrudnik, kand.khim.nauk

Reaction of active dyes with polyamide fibers. Tekst.prom.
21 no.12:47 D '61. (MIRA 15:2)

1. Moskovskiy tekstil'nyy institut (for Virnik). 2. Nauchno-
issledovatel'skiy institut organicheskikh poluproduktov i
krasiteley (for Chekalin).

(Dyes and dyeing—Textile fibers)
(Polyamides)

KHOMYAKOV, K.P.; VIRNIK, A.D.; USHAKOV, S.N. [deceased]; ROGOVIN, Z.A.

Synthesis of ester of dextran and pelentanic acid. Khim.prirod.
soed. no.4:245-246 '65.

(MIRA 1961)

1. Moskovskiy tekstil'nyy institut. Submitted March 29, 1965.

L 30710-66 EWI(j)/EWI(l)/~~EWT(m)~~/T RM
ACC NR: AP5028989

SOURCE CODE: UR/0342/65/000/003/0031/0032

AUTHORS: Mal'tseva, T. A. (Aspirant); Virnik, A. P. (Senior research associate); Rogovin, Z. A. (Professor); Sheheglova, G. V. (Aspirant); Vashkov, V. I. (Professor, Director)

ORG: Mal'tseva, Virnik (Moscow Textile Institute - Moskovskiy tekstil'nyy institut); Sheheglova, Vashkov (Central Scientific Research Disinfection Institute -- Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut)

TITLE: Antibacterial synthetic fibers and cloths

SOURCE: Tekstil'naya promyshlennost', no. 9, 1965, 31-32

TOPIC TAGS: textile, textile industry, bacteria, bactericide, silver

ABSTRACT: Antibacterial synthetic fibers were obtained by treating modified fibers of polyvinylalcohol, cloth made from modified polypropylene fibers, and jersey cloth made from modified capron fibers with the following bactericides: silver, N-cetylpyridinal terramycin, streptomycin, and hexachlorophene. The effectiveness of the treatment was determined by the effect it had on golden staphylococcus and Escherichia coli bacteria. The experimental procedure

Card 1/2

UDC: 677:615.799.9

L 30710-66
ACC NR: AP5026989

followed that described previously by the authors (Tekstil'naya promyshlennost' 1965, 4, str. 15). The results are tabulated. It is concluded that fabrics may be made impervious to bacterial action by treating them with a suitable bactericide. Orig. art. has: 1 table.

SUB CODE: 11/ SUBM DATE: none/ SOV REF: 002

Card 2/2 LS

L 39667-66 MP(m)/MP(j)/T LM/SD-2

ACC NR: AP6000965

(A)

SOURCE CODE: UR/0286/15/000/001/00000000

AUTHORS: Rogovin, Z. A.; Vasikov, V. I.; Shluger, N. A.; Vinnik, A. D.; Sidorov, G. V.; Maltseva, T. A.; Gerasimov, A. I.

ORG: none

TITLE: A method for obtaining bactericidal fabrics and fibers based on cellulose. ^{15.44}
Class 29, No. 176363

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1962, 46

TOPIC TAGS: bactericide, cellulose, biologic protective clothing

ABSTRACT: This Author Certificate presents a method for obtaining bactericidal fabrics and fibers based on cellulose, by the introduction of ionogenic groups and subsequent substitution with bactericidally active substances. To impart antimicrobial properties to the cellulose fabric (fiber), the latter is treated with the derivatives of hydroxi- or aminosulfo acids capable of reacting chemically with cellulose during their interaction with the bactericidally active substances. These substances may be salts of heavy metals or quaternary ammonium bases.

SUB CODE: 13,06

SUPM DATE: 18Oct62

Card 1/1 115

UDC: 677.46:615

I 31562-66 TTT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6008087

(A)

SOURCE CODE: UR/0063/66/011/001/0119/0120

AUTHOR: Ibragimov, A. D. ; Virnik, A. D. / Sidel'kovskaya, F. P. / Askarov, M. A. ⁴⁶/_B

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut); Institute of Organic Chemistry im. N. D. Zelinskiy (Institut organicheskoy khimii)

TITLE: Synthesis of a cellulose¹-polyvinylpyrrolidinone¹ graft copolymer¹

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 11, no. 1, 1966, 119-120

TOPIC TAGS: cellulose, graft copolymer, hydrogen peroxide

ABSTRACT: A cellulose-polyvinylpyrrolidinone graft copolymer was synthesized by using a method proposed by D. I. Bridgeford (Ind. Eng. Chem., Prod. Res. Develop. 1, No. 1, 45, 1962) for the synthesis of other graft copolymers of cellulose. The effect of H_2O_2 concentration, temperature, and reaction time on the content of graft polyvinylpyrrolidinone (PVP) in the copolymer was investigated. It was found that the PVP content of the copolymer increases up to a 0.01% concentration limit of H_2O_2 , beyond which the amount of graft PVP decreases. Up to 70C the content of graft PVP increases, but a further rise in temperature causes it to diminish. Both of these phenomena are interpreted in terms of the chain breaking process. The monomer concentration also has a substantial effect on the composition of

Card 1/2

UDC: 678.51

L 31562-66

ACC NR: AP6008087

the graft copolymer formed. It is concluded that the modification of cellulose materials by the grafting of PVP enables one to alter their properties considerably. The cellulose-PVP graft copolymer adsorbs acid dyes well and displays a high degree of lightfastness. Orig. art. has: 2 figures.

SUB CODE: 07 / SUBM DATE: 15Jun65 / ORIG REF: 005 / OTH REF: 001

Card 2/2 *LC*

ACC NR: AP7011817

SOURCE CODE: UR'0063'66/011'006'0657'0664

AUTHOR: Virnik, A. D. (Candidate of Technical Sciences); Gal'braykh, L. S. (Candidate of Technical Sciences); Livshits, R. M. (Candidate of Technical Sciences)

ORG: none

TITLE: Chemical Fibers with special properties

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo, Zhurnal, v. 11, no. 6, 1966, 657-664

TOPIC TAGS: synthetic fiber, fire resistant material, textile

SUB CODE: 11

ABSTRACT: A review on special purpose chemical fibers covers chemical fibers having antibacterial and antimildew properties, flame resistant fibers, fibers and textiles having ion exchange properties, and fibers having complex properties and semiconductor properties. The review covers new methods of preparation, toxic and hygienic requirements, and treatment of fibrous materials to render them special properties. The review contains 131 references, most of which are western sources. [JPRS: 40,361]

Card 1/1

UDC: 677.46.401

VIRNIK, D., inzh.

More on watering bone meal for the manufacture of glue. Mias.
ind. SSSR 30 no. 1:27 '59. (MIRA 12:4)

1. Moskovskiy zhelatinovyy zavod.
(Bone meal)

KOLEDIN, I.; LIBERMAN, S.; VIRNIK, D.

Use of swine skins in making sausages. Mias. ind. SSSR 32
no.3:22 '61. (MIRA 14:7)

(Sausages)

VIRNIK, D.

GORODETSKAYA, R.; SHEREMET, M.; SHAKHNAZAROVA, M.; VIRNIK, D.; SMIRNOVA, V.,
YESAKOVA, R.

Objective method of determining the degree of liming of raw material.
Mias.ind. SSSR. 25 no.5:52-54 '54. (MLRA 7:11)
(Gelatin)

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VIRNIK, D.

VIRNIK, D.; YESAKOVA, R.; SMIRNOVA, V.

Efficient mixing of gelatin. Mias. ind. SSSR 28 no.5:34 '57.

(MIRA 11:1)

1. Moskovskiy zhelatinovyy zavod.
(Gelatin)

VIRNIK, D.; VLASOV, I.

Conference of the representatives of the glue and gelatine industry.
Mias.ind.SSSR 33 no.5:62-63 '62. (MIRA 15:12)

1. Moskovskiy zhelatinovyy zavod (for Vlasov).
(Glue) (Gelatin)

VIRNIK, D. i SINYAGINA, A.

19952 VIRNIK D. i SINYAGINA, A. Sul'fitnobeikovyy kley SB-1. Myas. industriya
SSSR, 1949, No. 3, s. 88-90.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva 1949.

VIRNIK, D.; GORBATOV, V.; LIBERMAN, S.

Resources of the gelatin industry. Mias. ind. SSSR 32 no.4:
25 '61. (MIRA 14:9)
(Gelatin) (Feeds)

ВИАНИИ

VIENIK, D.

Where to set up glue and gelatin production. **Mias.ind.SSSR 26**
no.4:36-37 '55. **(MIRA 8:10)**

1. **Moskovskiy shelatinovyy zavod**
(Bone products)

TUTSKIY, N., EPSHTEYN, G., VIRNIK, D.

Gelatine

Improving the technology of gelatin production. *Mias. ind.* 23 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952 ~~1953~~, Uncl.

TUTSKIY, N., EPSHTEYN, G., VIRNIK, D.

Gelatine.

Improving the technology of gelatin production. *Mias. ind.* 23 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952²; Uncl.

VIRNIK, D.I., starshiy nauchnyy sotrudnik; ARTEMOVA, N.N., mladshiy nauchnyy sotrudnik; RADKEVICH, D.P., mladshiy nauchnyy sotrudnik; SEROCHKINA, V.P., mladshiy nauchnyy sotrudnik; KUZNETSOV, V.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; SPIRIN, Ye.T., starshiy inzh.

Development of a new technology and mechanized continuous production line for the manufacture of edible gelatin from collagen-containing pigskins. Trudy VNIIMP no. 13, 84-94 '63. (MIRA 17:5)

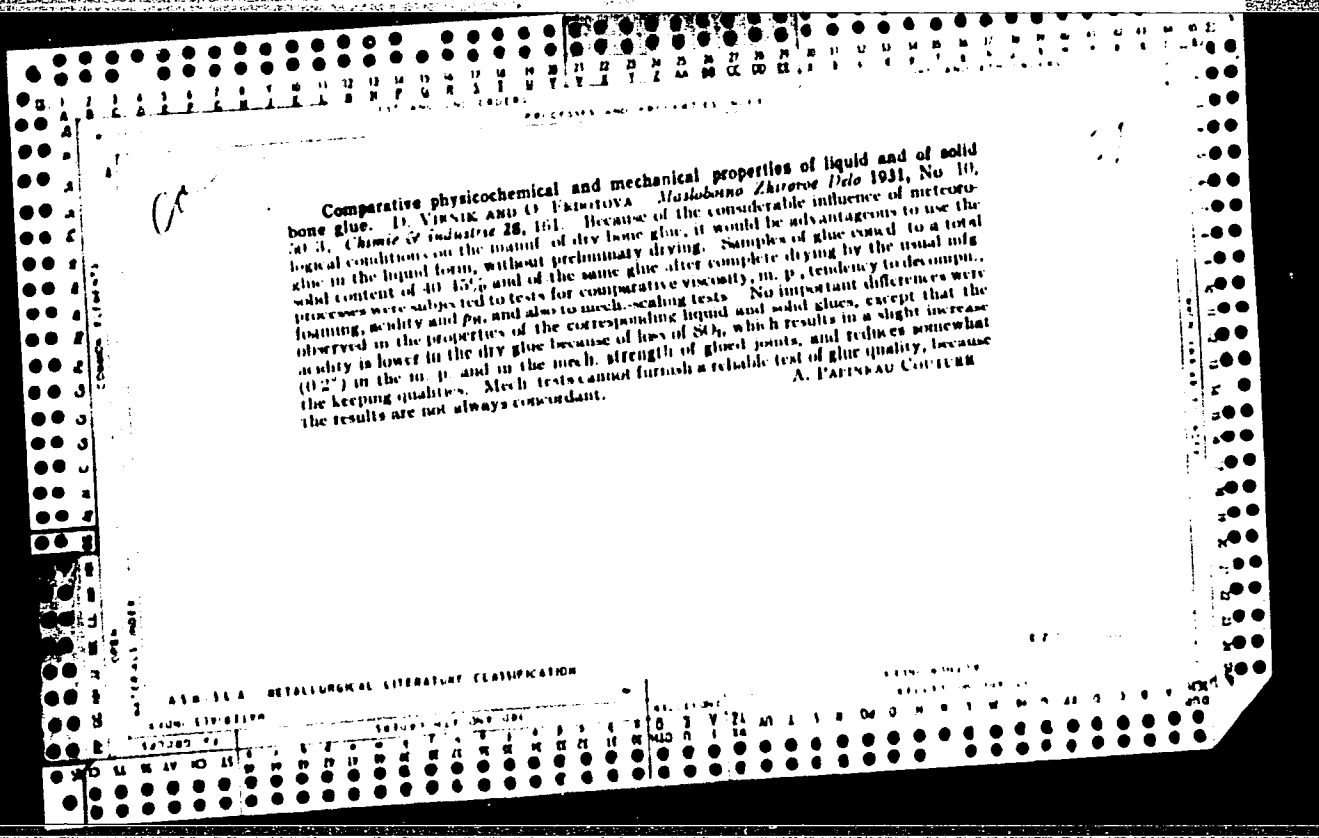
VIRNIK, D.I., starshiy nauchnyy sotrudnik; PETROVSKIY, V.P., starshiy
nauchnyy sotrudnik; ARTEMOVA, N.N., mladshiy nauchnyy
sotrudnik; LYADIN, Yu.V., mladshiy nauchnyy sotrudnik

New technology for the production of bone glue in the
Briansk Packing House. Trudy VNIIMP no.15:79-84 '63.

VIRNIK, David Isaakovich; VLASOV, Aleksandr Pavlovich; TALANTSEV,
Dmitriy Zinov'yevich; KHOKHLOVA, Zinaida Vasil'yevna;
LIBERMAN, S.G., kand. tekhn. nauk, retsenzent; PAVLOVSKAYA,
Z.N., inzh.-tekhnolog, retsenzent; MOROZOVA, I.I., red.;
ZARSHCHIKOVA, L.N., tekhn. red.

[Technology of glue and gelatine] Tekhnologiya kleia i zhela-
tina. [By] D.I. Virnik, i dr. Moskva, Pishchepromizdat, 1963.
479 p. (MIRA 16:8)

(Glue) (Gelatine)



VIRNIK, D.F. [Virnykh, D.F.]

"History of the national economy of the U.S.S.R." by V.T.Chuntulov.
Reviewed by D.F.Virnyk. Dop. AN URSR no.2:285-287 '64.(MIRA 17:5)

DEREVYANKIN, Timofey Ivanovich [Derev'iankin, T.I.]; VIRNIK, D.F. [Virnyk, D.F.],
kand. ekon. nauk, otv. red.; PAVLENKO, M.P., red.; VUNIY, R.O.
[Bunii, R.O.], tekhn. red.

[Ukrainian textile factories based on hand labor in the late 18th
and the first half of the 19th century] Manufaktura na Ukraini v
kintsi XVIII - pershii polovyni XIX st.; tekstyl'ne vyrobnytstvo.
Kyiv, Vyd-vo Akad. nauk URSR, 1960. 126 p. (MIRA 14:7)
(Ukraine--Textile industry)

NESTERENKO, O.O.; VIRNIK, D.F. [Virnyk, D.F.]

Book on the development of state monopoly capitalism in Russia
("State monopoly capitalism in Russia" by A.P.Pogrebinski.
Reviewed by O.O.Nesterenko, D.F.Virnyk). Dop.AN URSR no.2:
238-244 '60. (MIRA 13:6)

(Capitalism)
(Pogrebinski, A.P.)

VIRNIK, D.F. [Virnyk, D.F.]; didpovidal'niy red.; KORETSKIY, L.M. [Korets'kyi, L.M.], red.; KUCHIKALO, I.A. [Kuhikalo, I.A.], red.; KOZAKEVICH, T.A., red, vid-va; SIVACHENKO, Ye.K., tekhn.red.

[The Soviet Ukraine] Radians'ka Ukraina. Kyiv, 1957. 290 p.
(MIRA 11:7)

1. Akademiya nauk URSS, Kiyev. Institut ekonomiki
(Ukraine)

KHOKHLOVA, Z.V., starshiy nauchnyy sotrudnik; SHAKHNAZAROVA, M.Sh., mladshiy
nauchnyy sotrudnik; VIRNIK, D.I., inzh.; GUROVA, V.I., inzh.;
SYCHEVA, G.V., inzh.

Determining gelatin yield from various types of raw materials.
Trudy VNIIMP no.11:170-177 '62.

(MIRA 18:2)

1. Moskovskiy zhelatinovyy zavcd (for Virnik, Gurova, Sycheva).

VIRNIK, D. I.

USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1946, 63796

Author: Gorodetskaya, R. V., Shakhnazarova, M. Sh., Sheremet, M. V., Virnik,
D. I., Smirnova, V. Ye., Yesakova, R.

Institution: None

Title: Objective Method of Determining the Degree of Permeation with Ash of
Gelatin-Yielding Raw Materials

Original

Periodical: Tr. Vses. n.-i. in-ta myasn. prom-sti, 1955, No 7, 114-122

Abstract: See Referat Zhur - Khimiya, 1956, 24401

Card 1/1

VIRNIK, D. /r

Experiments in the gelatin industry. Tr. from the Russian. p. 31. LEKA
PROMISHLENOST. Sofiya. Vol. 5, no. 2, 1956.

SOURCE: East European Accessions List. (EEAL) Library of Congress.
Vol. 5, No. 8, August 1956.

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KOKHLOVA, Z.V., starshiy nauchnyy sotrudnik; SHAKHNAZAROVA, M.Sh., mladshiy
nauchnyy sotrudnik; VIRNIK, D.I., inzh.

Using small bones defatted by the cold water process for the
production of gelatin. Trudy VNIIMP no.9:127-132 '59.
(MIRA 13:8)

(Bone products)

(Gelatin)

VIRNIK, D.I., starshiy nauchnyy sotrudnik; KHAR'KOVA, A.G., mladshiy nauchnyy sotrudnik; SHAKHNAZAROVA, M.Sh., mladshiy nauchnyy sotrudnik; VLASOV, A.P., inzh.; ROSTOVTSEVA, V.I., inzh.; CHEKANOVA, G.V., inzh.; Prinimali uchastiye: ARTEMOVA, N.N.; TSYPIA, N.D.; KUST, Ye.F.

Preparation of gelatin from raw materials processed with the acid method. Trudy VNIIMP no.13:52-63 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Khar'kova, Shakhnazarova, Artemova).
2. Moskovskiy zhelatinovyy zavod (for Vlasov, Rostovtseva, Chekanova, Tsykina, Kust.).

Virnik, I.

BOTOV, P.; ~~VIRNIK, I.~~

Fortieth anniversary of the Chelyabinsk Grain Elevator. Muk.-elev.
prom. 23 no.11:11-12 N '57. (MIRA 11:1)

1. Direktor Chelyabinskogo elevatora (for Botov). 2. Glavnyy inzhener Chelyabinskogo elevatora (for Virnik).
(Chelyabinsk--Grain elevators)

PUTS, I.; VIRNIK, I.

Reinforced concrete slabs are used for covering lower galleries and mechanical ventilation of grain in storages. Muk.-elev. prom. 28 no.12:22-23 D '62. (MIRA 16:1)

1. Direktor Chelyabinskogo mel'nichnogo kombinata (for Puts).
2. Glavnyy inzh. Chelyabinskogo mel'nichnogo kombinata (for Virnik).

(Granaries--Ventilation) (Concrete slabs)

VIRNIK, I

They mechanized the work on an asphalted platform.
Muk.-elev. prom. 28 no.9:28 S '62. (MIRA 15:10)

1. Glavnyy insh. Chelyabninskogo mel'nichnogo kombinata.
(Chelyabinsk--Grain elevators)

VIRNIK, I.

Mechanical ventilation of grain in mechanized storages of
the Chelyabinsk Milling Combine. Muk.-elev. prom. 28 no.1:20
Ja '62. (MIRA 16:7)

1. Glavnyy inzh. Chelyabinskogo mel'nichnogo kombinata.
(Chelyabinsk Province--Grain--Storage)
(Ventilation)

KADLUBIK, I.; VIRNIK, I.

Simple corn threshers manufactured at grain receiving enterprises.
Muk.-elev. prom. 29 no.2:10-11 F '63. (MIRA 16:8)

1. Nachal'nik tekhnicheskogo otdela Sverdlovskogo oblastnogo
upravleniya khleboproduktov (for Kadlubik). 2. Glavnyy inzh.
Chelyabinskogo mel'nichnogo kombinata (for Virnik).
(Threshing machines)

VIRNIK, I.

Unloading trucks for heavy loads at the Chelyabinsk Milling Combine.
Muk.-elev. prom. 29 no.12:21-22 D '63. (MIRA 17:3)

1. Glavnyy inzh. Chelyabinskogo mel'nichnogo kombinata.

PUTS, I.; VIRNIK, I.

Unloading of large motortrucks in the Chelyabinsk grain milling combine.
Muk.-elev. prom. 28 no.6:12-13 Je '62. (MIRA 15:7)

1. Director Chelyabinskogo mel'nichnogo kombinata (for Puts).
2. Glavnyy inzhener Chelyabinskogo mel'nichnogo kombinata (for Virnik).
(Chelyabinsk -Grain milling) (Chelyabinsk -Grain handling)

VIRNIK, I.

Simplified system for transporting dry grain from SOB-lk grain
drying towers. Muk.-elev. prom. 28 no.5:29 My '62.

(MIRA 15:5)

1. Glavnyy inzh. Chelyabinskogo mel'nichnogo kombinata.
(Grain elevators) (Grain--Drying)

CHUMAKOV, Yu.I.; RUSAKOVA, L.A.; MEDNIKOV, A.I.; VIRNIK, R.I.

Nicotinic acid. Metod.poluch.khim.reak. i prepar. no.7:79-82
'63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskii institut.

CHUMAKOV, Yu.I.; MEDNIKOV, A.I.; VIRNIK, R.I.

Preparation of nicotinic acid from nicotine. Zhur.prikl.khim.
35 no.3:602-605 Mr '62. (MIRA 15:4)
(Nicotine) (Nicotinic acid)

SAMUEL, C.; SAUVINET, J.; VIRNOT, A.; ILLY, Jozsef [translator]

Two swimming pool-type reactors: the Melusine and the Triton. Atoms
taf 2 no.1:89-100 Ja '59.

D. VIRNIK

Sulfite albuminous glue SB-1 (D. Virnik and A. Smirnova) (Moscow Gelatin Plant). *Mikrokhim. Ind.* 20, No. 3, 88 (1959). The concd. distillery "wash" derived in manuf. of alc. from sulfite cellulose lye is used in the casting industry for making molds because it is too hygroscopic and dark colored for use as glue. To make a suitable glue, neutralized sulfite albumin soln. is combined with alkali contg. 20-25% aqueous soln. and heated at 50° for 20-30 min. Factory made sulfite albuminous glue SB-1 required: sulfite ext. of 50%, concn. 10%, caustic 3.15, casein 5.42, and water 41.5-42.3%. M.M.P.

PROCESSING AND PROPERTIES INDEX

B-II-10

Comparative physicochemical and mechanical properties of liquid and solid bone glue. D. VIKHAR and O. FADOROVA (Maslobino-Zhir. Delo, 1933, No. 10, 80-83).—No important differences were observed. Acidity is lower in the dry glue owing to loss of SO₂; this slightly increases the m.p. and mechanical strength and reduces the keeping qualities.

M. Ann.

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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BOGOSLOVSKIY, B.M. (deceased); VIRNIK, A.D., inzh.; CHEKALIN, M.A., kand.
khimicheskikh nauk

Investigating the reaction of reactive dyes with α -amino acids.
Izv.vys.ucheb.zav.; tekhn.prom. no.4:80-87 '60. (MIRA 13:10)

1. Moskovskiy tekstil'nyy institut. Rekomendovana kafedroy
organicheskoy khimii i khimii krasiteley.
(Dyes and dyeing--Chemistry) (Amino acids)

KOKHLOVA, Z.V., starshiy nauchnyy sotrudnik; SHAKHNAZAROVA, M.Sh., mladshiy
nauchnyy sotrudnik; VIBNIK, D.I., inzh.; LEVINOVA, K.N., inzh.

Production of fodder precipitate from maceration lyes resulting
from the manufacture of gelatin. Trudy VNIIMP no.9:133-137
'59. (MIRA 13:8)
(Feeding and feeds) (Lye) (Gelatin)

VIRNIK, L.B.

Enlarged conference of medicolegal experts of the Northern
Caucasus. Sud.-med. ekspert. 8 no.2:56-57 Ap-Je '65.
(MIRA 18:8)

STUKALOV, K.V.; GAVRILKEVICH, K.V.; VIRNOVSKIY, A.S., red.

[Low-speed pumping of oil; practices of the Borislavneft' Trust]
Tikhokhodnais otkachka zhidkosti; opyt tresta Borislavneft'.
Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1951. 21 p. (MIRA 12:3)

(Oil-well pumps)

VIRNOVSKIY A.S.

Energy levels of water and gas as agents replacing petroleum in
the reservoir during pressure maintenance processes. Neft.khoz.
34 no.1:38-41 Ja '56. (MLRA 9:5)
(Petroleum engineering)

VIRNOVSKIY
KRYLOV, A.P.; BORISOV, Yu.P.; BUCHIN, A.N.; VIRNOVSKIY, A.S.; ROZHENKO,
M.D.; EFROS, D.A.

Increasing petroleum extraction and reducing capital expenditure
in the development of oil fields. Neft, khos. 35 no. 5:21-30 My
'57. (MIRA 10:6)

(Petroleum industry)

VIRNOVSKIY, A.S., TATEISHVILI, O.S.

Periodic operation of pumping wells. Neft. khov. 35 no.8:40-46 kg
'57. (MIRA 10:11)

(Oil well pumps)

SOV/19-58-6-35/685

AUTHORS: ~~Virnovskiy, A.S.~~; Belen'kiy, V.N.; Krutikov, B.S.;
Borisov, M.D.; Perlovich, M.I. and Kornev, B.P.

TITLE: A Method of Simultaneous Exploitation of Two Gusher
Layers With One Well (Sposob odnovremennoy eksplua-
tatsii dvukh fontannykh plastov odnoy skvazhinoy)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 12 (USSR)

ABSTRACT: Class 5a, 41. Nr 113629 (575268/2858 of 6 April
1955). Submitted to the Ministry of Petroleum
Industry of USSR. To simplify design and make pos-
sible the mechanical cleaning of paraffin from
gusher pipes, the liquid from both layers is lift-
ed by one gusher pipe string, and each layer is

Card 1/2

SOV/19-58-6-35/685

A Method of Simultaneous Exploitation of Two Gusher Layers With
One Well

separately controlled by separate exchangeable
depth pipes.

Card 2/2

VIRNOVSKIY, A.S., doktor tekhn.nauk

Research on oil recovery techniques. Trudy VNII no.18:92-104
'58. (MIRA 12:2)

(Oil wells--Equipment and supplies)

VIRNOVSKIY, A.S.

Accelerometric safety signaling device for deep well pumps. Neft.
khoz. 36 no.1:51-55 Ja '58. (MIRA 11:2)
(Oil well pumps) (Accelerometers) (Automatic control)

VIRNOVSKIY, I. S., PARUKOV, A. I., TASHBELVILI, O. S. (SECTION II)

"Mathematical Theory and Electrical-Model Study of a Deep-Well Pump."

Report submitted at the Fifth World Petroleum Congress, 30 May - 5 June 1959. New York.

VIRNOVSKIY, A.S.

Maintaining constant deep-well pump displacement. Trudy VNII
no.22:3-12 '59. (MIRA 15:4)

(Oil well pumps)

VIRNOVSKIY, A.S.; IVANKOV, P.A.

Method of determining the location of a sucker rod break. Trudy
VNII no.22:13-19 '59. (MIRA 15:4)

(Sucker rods)

VIRNOVSKIY, Anatoliy Semenovich

"Electric model tests, control and automatisaton of deep well pumps"

report to be submitted for the 6th World Petroleum Congress,
Frankfurt am Main, 19-26 Jun 1963.

VIRNOVSKIY, A.S.; ROZANTSEV, V.R.

Conditions for the nonpercussive operation of a hydraulic-
piston unit with valve distribution. Nauch.-tekh. sbor.
po dob. nefti no.21:91-97 '63. (MIRA 17:5)

KRYLOV, A.P., red.; AFANAS'YEVA, A.V., kand. tekhn.nauk, red.;
BORISOV, Yu.P., doktor tekhn. nauk, red.; BRISKMAN, A.A.,
red., kand. tekhn. nauk; BUCHIN, A.N., kand. ekon. nauk,
red.; VIRNOVSKIY, A.S., doktor tekhn. nauk, prof., red.;
ZHELETOV Yu.F., kand. tekhn. nauk, red.; MAKSIMOV, M.I.,
kand. geol.-miner. nauk, red.; MARKOVSKIY, G.E., inzh.,
red.; MELIK-PASHAYEV, V.S., doktor geol.-miner. nauk, red.;
NIKOLAYEVSKIY, N.M., doktor ekon. nauk, prof, red.;
PETROVSKAYA, A.N., kand. geol.-miner. nauk, red.;
PILATOVSKIY, V.P., doktor fiz.-mat. nauk, red.; ROZENBERG,
M.D., doktor tekhn. nauk, red.; SAFRONOV, S.V., kand. tekhn.
nauk, red.

[Petroleum production; theory and practice. 1967 yearbook]
Dobycha nefiti; teoriia i praktika. Ezhegodnik 1963. Moskva,
Nedra, 1964. 302 p. (MIRA 17:9)

1. Chlen-korrespondent AN SSSR (for Krylov). 2. Vsesoyuznyy
neftegazovyy nauchno-issledovatel'skiy institut (for Melik-
Pashayev, Rozenberg). 3. Institut mekhaniki AN SSSR (for
Nikolayevskiy).

VIRNYK D.F.

BONDARENKO, Viktor Biktorovich; VIRNYK, D.F., kandidat ekonomicheskikh nauk, otvetstvennyy redaktor; KOBZAR, G.A., redaktor; ZHUKOVSKIY, A.D., techredaktor.

[Growth of the communal economy of Ukrainian collective farms during the prewar five-year plans] Razvitie obshchestvennogo khoziaistva kolkhozov Ukrainy v gody dovoennykh piatiletok. Kiev, Izd-vo Akad. nauk USSR, 1957. 441 p. (MLRA 10:5)
(Ukraine--Collective farms)

VIRNYK, D.F.

Integrated national economic utilization of the water resources of the Donets Basin. Kiev, Izd-vo Akademii nauk USSR, 1940. 253 p. maps. (49-58113)

1. Water-supply-Russia-Donets Basin.
2. Natural resources-Donets Basin.

GORODETSKAYA, R.V., kandidat khimicheskikh nauk; SHAKHNAZAROVA, M.Sh.,
mladshiy nauchnyy sotrudnik; SHEREMENT, M.V.; VIRNIK, D.I.;
SMIRNOVA, V.Ye.; YESAKOVA, R.

Reducing losses in gelatin production. Trudy VNIIMP no.7:108-113
'55. (MLRA 9:8)

1. Vsesoyuznyy nauchno-issledovatel'dkiy institut myasnoy promyshlen-
nosti (for Gorodetskaya, Shakhnazarova, Sheremet); 2. Moskovskiy
zhelatinovyy zavod (for Virnik, Smirnova, Yesakova).
(Gelatin)

GORODETSKAYA, R.V., kandidat khimicheskikh nauk; SHAKHNAZAROVA, M.Sh.,
mladshiy nauchnyy sotrudnik; SHEREMET, M.V.; VIRNIK, D.I.;
SMIRNOVA, V.Ye.; YESAKOVA, R.

Methods of determining the degree of liming in gelatigenous tissues.
Trudy VNIIMP no.7:114-122 '55. (MLRA 9:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promy-
shlennosti (for Gorodetskaya, Shakhnazarova, Sheremet); 2. Moskov-
skiy zhelatinovyy zavod (for Virnik, Smirnova, Yesakova).
(Gelating)

TIMOKHIN, N.A.; VIRNIK, D.I.

The experience acquired by the gelatine industry should be placed at the disposal of the leather industry. Leg. prom. 15 no.11:33-34 N '55. (MLRA 9:2)
(Leather industry) (Gelatine)

YIRHOVSKIY, A.S.; KRYLOV, A.P.; KUBLANOVSKIY, L.B.

Prospects for automatic and remote control of petroleum
production processes. Neft. khoz. 38 no.10:1-5 0 '60.
(MIRA 13:9)

(Oil fields--Production methods)
(Automatic control) (Remote control)

MISHKO, D.I.; LIPS'KYI.

Book on the economic and cultural development of the Ukrainian S.S.R.
("Ukrainian S.S.R." D.V.Virnyk, Reviewed by D.I. Myshko, V.M.Lips'kyi).
Visnyk A. URSR 86 no.2:75-78 P '55. (MLRA 8:4)
(Virnyk, D.V.) (Ukraine--Economic conditions)

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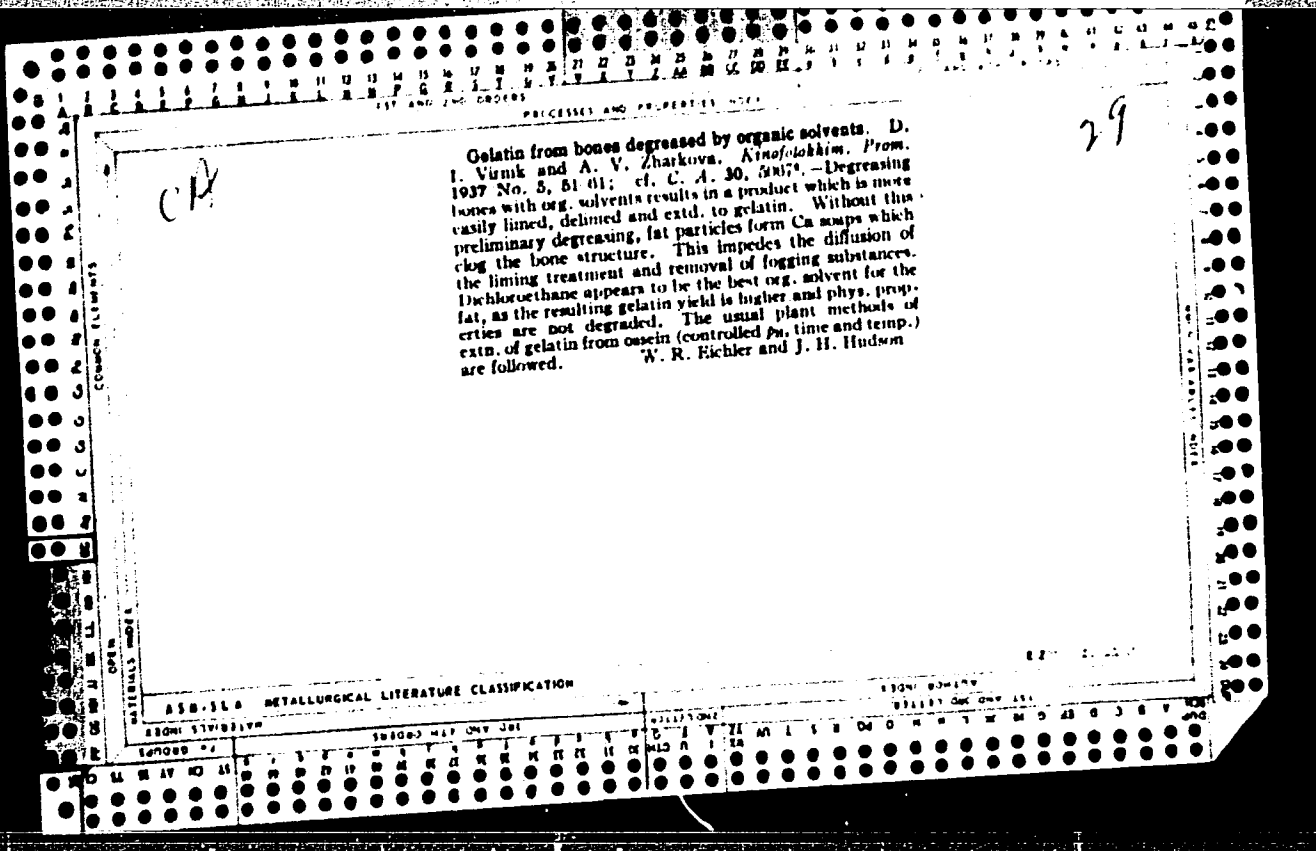
29

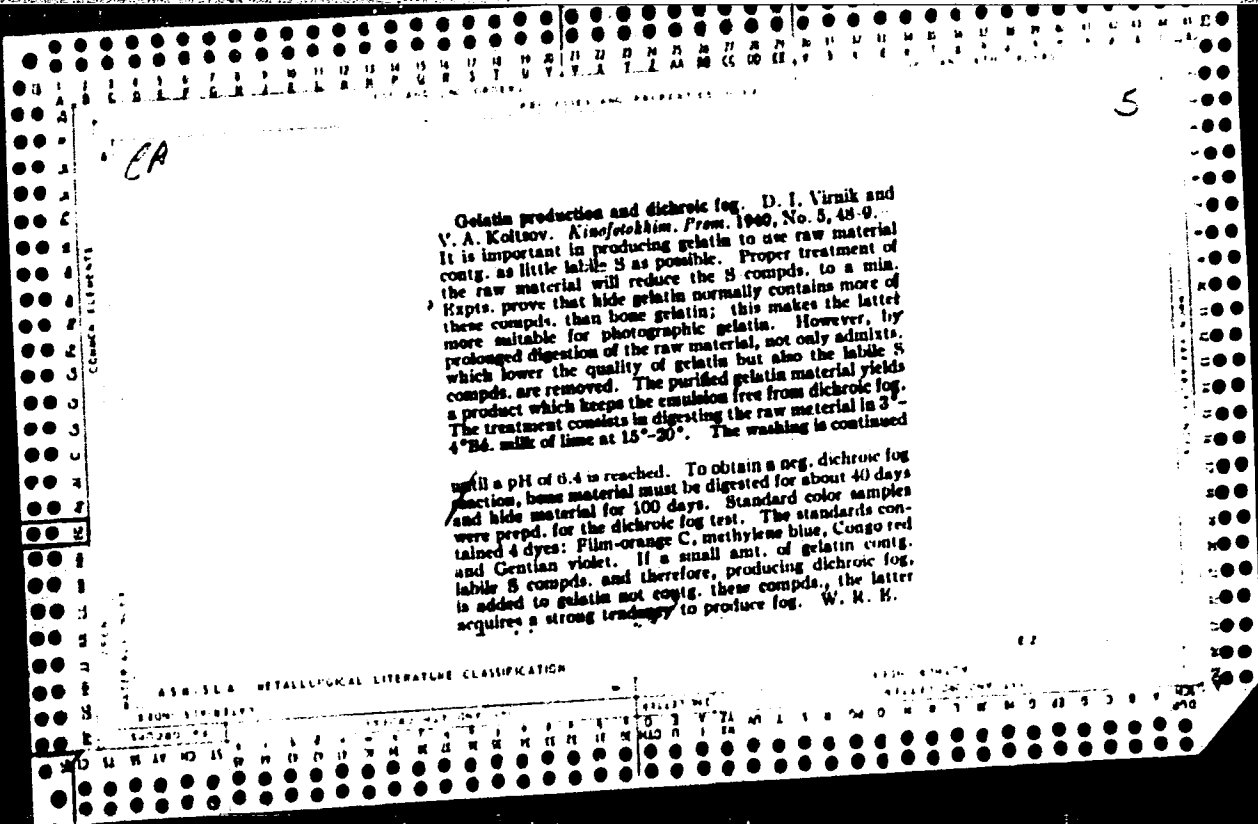
Production of gelatin from bones defatted by organic solvents. D. I. Vignik and A. V. Zharkova. *Khimiya i Tekhnologiya Azotnykh Slozheniy*, No. 10, 42 (6); *Khim. Referat. Zhur.* 1939, No. 5, 123; cf. *C. A.* 33, 2755. — For the prepn of gelatin, bones were defatted by maceration of bones and water. The time required for maceration of bones defatted with org. solvents is 15-40% less than for bones defatted with water. A max. yield of gelatin was obtained from bones defatted with dichloroethane. The concn. of HCl during the maceration affected the following processes of the treatment of ossein as well as the yield of gelatin. Gelatin obtained from bones defatted with org. solvents was of higher quality. W. R. Henn

ASB 51A METALLURGICAL LITERATURE CLASSIFICATION

The foaming of gelatin D. I. Vinnik and F. M. Blyumina
Kino-Foto-Khim. Prom. 4, No. 4, 37-40 (1969); *Khim. Referat. Zhur.* 1, No. 11-12, 146 (1968). Addn. of up to 0.75-1.0% of kontakt (sulfonaphthene acids), to lower the surface tension of gelatin, increases greatly the formation and the stability of the foam. H_2SO_4 (preserving and bleaching agent) shows very little effect. A thermal treatment of the liquor decreases the formation of foam and its stability, and decreases the strength and the viscosity of gelatin. Filtration of the liquor through a cellulose mass increases the formation and the stability of foam; probably this is due to the retention on the filter of some substances which hinder the foam formation. W. R. H.

ASB 55A METALLOGICAL LITERATURE CLASSIFICATION





VIROB'YAN, A. O.

USSR/Processes and Equipment for Chemical Industries - Control and Measuring Devices.
Automatic Regulation, K-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63990

Author: Ostrovskiy, G. M., Voytenko, T. V., Virob'yan, A. O.

Institution: None

Title: Regulation of Technological Processes with a Forewarning

Original
Periodical: Priborostroyeniye, 1956, No 3, 3-8

Abstract: An analysis is presented of the operation of pneumatic and electric devices which permit regulation with a taking into account of the rate of change of the parameter being regulated. Considered are various methods of providing a forewarning in pneumatic systems. The conclusion is reached that corrective devices (of pneumatic as well as of electric type) which provide a forewarning can find extensive utilization in the regulation of various parameters in numerous branches of industry. This applies primarily to regulation of temperature since thermal processes have usually a large time constant and extensive lag which render difficult their regulation.

Card 1/1

OSTROVSKIY, G.M.; VOYTENKO, T.V.; ~~VIROB'YAN, A.O.~~

Preliminary control of technological processes. Priborostroenie
no.3:3-8 Mr '56. (MLRA 9:8)

(Automatic control)

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860020014-9"

VIROBYANIS, R. A., Cand Chem Sci -- (diss) "Research into the furnace process of gaseous carbon black production." Moscow, /Academy of Sciences USSR Publishing House/, 1960. 11 pp; (Academy of Sciences USSR, Inst of Petrochemical Synthesis); 175 copies; free; (KL, 23-60, 121)

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SOV/55-60-2-2/13

AUTHORS: Amirkhanova, N. G., Virobyants, R. A., Martynov, A. A.,
Nechayeva, M. A.

TITLE: Structural Analysis of Kerosene of Bavlly (Tatar ASSR)
Petroleum

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, Nr 2, pp
38-43 (USSR)

ABSTRACT: The kerosene fraction (180-320°) was obtained from
petroleum rich in sulfur compounds by distillation
under vacuum (10-12 mm). Chromatography, rectification,
and urea dewaxing were used to separate the kerosene
fraction into its structural groups. All chromato-
graphic fractions were classed into six structural groups
according to their refraction index. They were further
subjected to rectification and dewaxing. The results
of the analysis of the kerosene fraction of Bavlly pet-
roleum with respect to its structural components are
given below.

Card 1/4