

LYUBIMOV, N.S., kand.tekhn.nauk; MANUKHIN, A.S., starshiy nauchnyy sotrudnik, kand.tekhn.nauk; SHUMARINA, A.V., inzh.; SLADKOPEVTSEVA, G.Ye., inzh.; NARKUNAS, N.L., inzh.; MISHKETKUL', Ya.S.

Reviews and bibliography. Tekst.prom. 25 no.11:90-94 N '65.  
(MIRA 18:12)

1. Rukovoditel' laboratorii. Tsentral'nogo nauchno-issledovatel'skogo instituta khlopchatobumazhnoy promyshlennosti, Moskva (for Lyubimov).
2. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti, Moskva (for Manukhin).
3. Khimicheskaya laboratoriya Ivanovskogo melanzhevogo kombinata (for Sladkopevtseva, Shumarina, Narkunas).
4. Nachal'nik tkatskogo proizvodstva Novo-Noginskoy tkatskogo-otdelochnoy fabriki (for Mishketkul').

*SHUMARINA*  
GLADCHIKOVA, Yu.N.; SHUMARINA, N.I.

Chromotropic method for determining formaldehyde in air. Gig. i  
san. 23 no.4:83-84 Ap '58. (MIRA 11:6)

1. Iz Ivanovskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo  
soveta profsoyuzov.

(FORMALDEHYDE, determ.

in air b chromotropic acid reaction (Rus))

(INDICATORS AND REAGENTS

chromotropic acid reaction in determ. of formaldehyde  
in air (Rus))

(AIR POLLUTION, determ.

by formaldehyde with chromotropic acid reaction (Rus))

OBUKHOV, N.A.; SHUMARINA, N.I.

Ventilation of opening and picking units in factories making absorbent cotton. Tekst.prom. 19 no.4:64-65 Ap '59.

(MIRA 12:6)

(Textile factories--Heating and ventilation)

(Cotton machinery--Cleaning)

(Dust collectors)

SHUMARINA, N.I.; GLADCHIKOVA, Yu.N.

Concerning Professor B.B. Koiranskii's article, "Draft of standards for meteorological conditions in the spinning and weaving enterprises of the cotton industry." Gig. i san. 26 no.7:108 JI '61. (MIRA 15:6)

1. Iz Ivanovskogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.  
(TEXTILE FACTORIES--HEATING AND VENTILATION)  
(KOIRANSKII, B.B.)

SOKOL'SKIY, D.V.; DRUZ', V.A.; ALEKSEYEVA, G.K.; SHUMATEVA, N.F.;  
MUSINA, S.A.

Use of oxide catalysts on carriers for the purification of  
exhaust gases by removing carbon monoxide and hydrocarbons.  
Trudy Inst.khim.nauk AN Kazakh. SSR 13:174-201 '65. (MIRA 18:9)

KAZANETS, I.; KUNAYEV, D.; SHUMAUSKAS, M. [Sumauskas, M.];  
KOCHINYAN, A.; SADYKHOV, R.; RUBIN, V.; KURBANOV, R.

The entire country participates in foreign trade. Vnesh.  
torg. 43 no.1:6-12 '64. (MIRA 17:4)

1. Predsedatel' Soveta Ministrov UkrSSR (for Kazanets).
2. Predsedatel' Soveta Ministrov KazSSR (for Kunayev).
3. Predsedatel' Soveta Ministrov Litovskoy SSR (for Shumauskas).
4. Predsedatel' Soveta Ministrov ArmSSR (for Kochinyan).
5. Zamestitel' Predsedatelya Soveta Ministrov AzerSSR (for Sadykhov).
6. Predsedatel' Soveta Ministrov Latviyskoy SSR (for Rubin).
7. Predsedatel' Soveta Ministrov Uzbekskoy SSR (for Kurbanov).

SHUMAUSKAS, Moteyus Yuozovich [<sup>v</sup>Šumauskas, M.J.]; POLYAKOVA, N., red.;;  
POPOVA, T., tekhn.red.

[Story about the future of Lithuania] Rasskaz o budushchen  
Litvy. Moskva, Gos.izd-vo polit.lit-ry, 1959. 71 p.

(MIRA 13:1)

1. Predsedatel' Soveta Ministrov Litovskoy SSR (for Shumauskas).  
(Lithuania--Economic policy)

SOKOLENKO, N. Ya.; SHUMAYEV, A. D.; VOLYNSKAYA, Ye. I.

Multiplication of the leaf beetle *Theone (Leptosonyx)*  
*silphoides* Dalm in the pastures of Kazakhstan. Zashch. rast.  
ot vred. i bol. 5 no.10:53-54 0 '60. (MIRA 16:1)

1. Kazakhskiy nauchno-issledovatel'skiy institut zashchity  
rasteniy, Alma-Ata.

(Kazakhstan--Wormwood--Diseases and pests)  
(Kazakhstan--Leaf beetles)



SHUMAYEV, A.D.

School of advanced practices. Zashch. rast. ot vred. i bol. 7  
no.1:25 '62. (MIRA 15:6)

1. Glavnyy agronom Yuzhno-Kazakhstanskoy stantsii zashchity  
rasteniy.

(Plants, Protection of—Study and teaching)  
(Cotton growing)

SHUMAYEV, A.I.

AID P - 2577

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 16/16

Authors : Gukhman, A. A., Doct., Phys. Math. Sci., Prof.  
Shumayev, A. I. and A. I. Veynik, Docs. Tech. Sci., Profs.  
~~Temkin, A. G., Kand. Tech. Sci.~~  
Blokh, A. G., Kand. Tech. Sci.

Title : A. F. Chudovskiy Teplo obmen v dispersnykh sredakh  
(Heat Exchange in Dispersion media) Gosenergoizdat,  
1954. (Book Review)

Periodical : Teploenergetika, 8, 60-64, Ag 1955

Abstract : The book is an analysis of large-grain dispersion material. The reviewers consider the book as a timely contribution to Soviet science, although it is not devoid of some small errors.

Institution : None

Submitted : No date

SHUMAYEV, F.G., professor, doktor tekhnicheskikh nauk.

Problems in baking equipment and the heat system of bread  
factories. Trudy MTIPP 2:115-128 '52. (MIRA 9:2)  
(Bakers and bakeries--Equipment and supplies)

SHUMAYEV, Fedor Grigor'evich; MAKLYUKOV, Il'ya Ivanovich; MIKHELEV, A.A., dotsent, retsenzent; NOVITSKIY, B.F., dotsent, retsenzent; GINZBURG, A.S., professor, spetsredaktor; KHMEL'NITSKAYA, A.Z., redaktor; KISINA, Ye.I., tekhnicheskii redaktor

[Industrial ovens for baking bread and confectionery] Promyshlennyye pechi khlebopekarnogo i konditerskogo proizvodstva. Moskva, Fishchepromizdat, 1957. 353 p. (MIRA 10:11)  
(Ovens)

SEMENENKO, Nikolay Aleksandrovich, prof., doktor tekhn.nauk; SIDEL'KOVSKIY, Lazar' Naumovich; YURENEV, Vladimir Nikolayevich; MASLENNIKOV, M.S., retsenezent; SHUMAYEV, F.G., retsenezent; SHUKHER, S.M., red.; LARIONOV, G.Ye., tekhn.red.

[Industrial boiler systems] Kotel'nye ustanovki promyshlennykh predpriiatii. Pod red. N.A.Semenenko. Moskva, Gos.energ.izd-vo, 1960. 391 p. (MIRA 13:11)

(Boilers)

MOREV, N.Ye.; SHUMAYEV, F.G.; ITSKOVICH, Ya.S.; CHULKOV, V.V.

Travelling TsNIKHP-P-7-59 oven with a screened sole and gas  
heating. Trudy TSNIKHP no.8:28-30 '60. (MIRA 15:8)  
(Ovens)

KONOVITSEV, Svyatoslav Vsevolodovich; SHUMAYEV, F.G., prof., retsenzent;  
KOS'MIN, T.F., inzh., retsenzent; ITSKOVICH, Ya.S., inzh.,  
spetsred.; KAIMENS, R.I., red.; SATAROVA, A.M., tekhn.red.

[Equipment of bakery enterprises] Ohorudovanie khlebopekarnykh  
predpriatii. Izd.3., ispr. i dop. Moskva, Pishchepromizdat,  
1962. 365 p. (MIRA 15:5)

(Bakers and bakeries—Equipment and supplies)  
(Assembly-line methods)

LYKOV, A.V.; LEBFDEV, P.D.; VUKALOVICH, M.P.; GINZBURG, A.S.; SMOL'SKIY,  
B.M.; SOKOLOV, Ye.Ya.; SEMENENKO, N.A.; LYKOV, M.V.; LEONCHIK,  
B.I.; KRASNIKOV, V.V.; SHUMAYEV, F.G.; DREVS, G.V.

Georgii Aleksandrovich Maksimov; obituary. Inzh.-fiz.  
zhur. 9 no.3:418 S '65. (MIRA 18:9)



SHUMAYEV, V.D., nauchnyy sotrudnik; NEVSKAYA, A.I., nauchnyy sotrudnik;  
SHANINA, T.N., nauchnyy sotrudnik; DMITRIYEVA, V.P., nauchnyy  
sotrudnik; VOLKOV, D.G., nauchnyy sotrudnik; CHIGRINA, T.A.,  
khimik

Waste waters from the Leninogorsk Polymetallic Combine  
and their effect on the open water reservoirs of the city.  
Gig. i san. 28 no.7:69-73 J1 '63. (MIRA 17:1)

1. Iz otdela gigiyeny Kazakhskogo instituta epidemiologii,  
mikrobiologii i gigiyeny i Respublikanskoy sanitarno-epi-  
demiologicheskoy stantsii.

L 27081-66

ACC NR: AP6017463

SOURCE CODE: UR/0016/66/000/001/0148/0148

AUTHOR: Leont'yeva, N. F.; Dishkant, I. P.; Shumayeva, Yu. F.

18

ORG: Central Disinfection Institute (Tsentral'nyy dezinfektsionnyy institut)

B

TITLE: Comparative evaluation of the sensitivity of culture media for checking the bactericidal effect of disinfectants

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 1, 1966, 148

TOPIC TAGS: enzyme, bacteriology

ABSTRACT: The possibility of using casein media instead of the usual meat-peptone media for checking the bactericidal effect of disinfectants is discussed. Meat-peptone, casein and meat-bone media, as well as dry agar D, are compared. Enzyme hydrolysis (for 4 hours at 50°C, as recommended by Ploskirev et al.) was used to obtain the bases of the casein and meat-bone media. The experiments were set up under the methodological rules of the Central Disinfection Institute. The data obtained showed that the results of inoculations of various microbes, treated with various disinfectants, were the same on meat-peptone, casein, meat-bone liquids and solid media. Comparison of the data of all the experiments made it possible to draw the conclusion that casein media (bouillon and agar) were equal to meat-peptone media in sensitivity. Since casein media costs one-seventeenth as much as meat-peptone media, it is worthwhile to continue studying them with the purpose of introducing them into practice for determining the bactericidal effect of disinfectants. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 W

UDC: 615.777/.779-078(048.1)

2

FERMYAKOV, N.F.; SHUMAYEVA, A.M. (Moskva)

Pathological anatomy of opisthorchiasis. Arkh. pat. 27 no.3-78-  
81 '88. (MIRA 18:10)

1. Patologoanatomicheskiy otdel (zav. -- doktor med.nauk N.F. Fermyakov) Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni Sklifosovskogo (dir. M.M. Tarasov).

SHUMAYEVA, G. N., CAND MED SCI, <sup>the</sup> "METEOROLOGICAL FACTOR  
IN THE COPPER SMELTING SHOP OF BALKHASH COPPER ~~WORKS~~ <sup>Plant</sup> AND  
THE MORBIDITY OF WORKERS UNDER CONDITIONS OF THE "DESERT"  
CLIMATE OF CENTRAL KAZAKHSTAN." ALMA-ATA, 1960. (JOINT  
~~SCI~~ <sup>Acad</sup> COUNCIL OF INSTITUTES OF PHYSIOLOGY, <sup>Regional</sup> ~~REGIONAL~~ PATHO-  
LOGY, CLINICAL AND EXPERIMENTAL SURGERY OF ACAD SCI KAZSSR).  
(KL, 3-61, 237).

ZHUK, N.K., mayor meditsinskoy sluzhby; SHUMAYEVA, V.F.

Metabolism of water-soluble vitamins under conditions of a hot climate.  
Voen.-med.zhur. no.7:45-48 '64. (MIRA 18:5)

SHUMBASOV, Yu.V.

Case of recurrent cancer in the same patient. Urologia  
no.6:60 N-D '63. (MIRA 17:9)

1. Iz urologicheskogo otdeleniya (zav. A.A. Kokorin) Krasno-  
yarskoy krayevoy klinicheskoy bol'nitsy No.1.

SHUMEL<sup>o</sup>, S.S., inzhener.

Results of consultations of research workers of the Institute  
for Planning Hydroelectric Power Developments. Gidr. stroi.23  
no.4:46-48 '54. (MLRA 7:7)  
(Hydroelectric power stations)

SHUMEL', S.S., inzhener.

Conference held by planning and research organizations. Gidr.stroi.25  
no.6:61-62 J1 '56. (MLRA 9:9)

(Hydraulic engineering)



SOV-98-58-2-18/21

AUTHOR: ~~Shumeli, S.S.~~, Engineer, Member of the Presidium, 3rd All-Union Hydrological Congress

TITLE: The Third All-Union Hydrological Congress (III Vsesoyuznyy gidrologicheskiy s"yezd)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 2, pp 60-61 (USSR)

ABSTRACT: The Third All-Union Hydrological Congress took place in Leningrad at the end of 1957. The Congress was attended by 1,240 scientists, engineers and specialists, employed at 300 scientific-research organizations and vuzes, scientific-technical societies of the electric power industry, mining industry and water transport, and 35 specialists from Albania, Bulgaria, Hungary, East Germany, China, Mongolia, Poland, Rumania, Czechoslovakia and Yugoslavia. The Congress examined the conditions and prospects for research into the hydrology continents, and pointed out the great achievements accomplished in the field of hydrology and water resources of the USSR. A number of reports was heard by the Congress, among which may be mentioned the report of Candidate of Technical Sciences V.A. Uryvayev (State Hydrological Institute) "The Study of the USSR Continental Waters and Further Tasks in This

Card 1/4

The Third All-Union Hydrological Congress

SOV-98-58-2-18/21

Field". The Doctors of Technical Sciences S.N. Kritskiy and M.F. Menkel' (Section for the Scientific Development of Problems of Water Economics, USSR Academy of Sciences) and Candidate of Technical Sciences A.I. Chebotarev (GGI) reported on "Water Engineering in USSR and Problems of Hydrology". Professor A.N. Voznesenskiy (Institute "Energoprojekt") spoke on "The Utilization of the USSR Water Resources and the Prospects for Developing Water Power". A total of 9 specialized sections were working at the Congress: Calculations and Prognoses (Chairmen - Doctor of Technical Sciences, Professor D.L. Sokolovskiy, Candidate of Technical Sciences A.I. Chebotarev and Doctor of Geographical Sciences G.P. Kalinin); Hydrophysics (Chairman - Doctor of Geographical Sciences, Regular Member of the RSFSR Academy of Pedagogical Sciences, Professor B.P. Orlov); Lakes and Water Reservoirs (Chairman - Doctor of Technical Sciences, Honored Worker of RSFSR Science and Engineering, Professor Ye.V. Bliznyak); Hydrodynamics and River-Bed Processes (Chairman - Corresponding Member, AS USSR, Honored Worker in RSFSR Science and Engineering, M.A. Melikanov); Water Economics (Chairmen - Doctors of Technical Sciences S.N. Kritskiy and M.F. Menkel'); General Hydrology (Chairman - Doctor of Geographical Sciences,

Card 2/4

The Third All-Union Hydrological Congress

SOV-98-58-2-18/21

Professor L.K. Davydov); Hydrometry and Methods of Hydrological Research (Chairman - Candidate of Technical Sciences A.K. Proskuryakov); Underground Waters and Problems of Underground Feeding of Rivers (Chairman - Doctor of Geological and Mineralogical Sciences, Professor B.I. Kudelin); Hydrochemistry and Sanitary Protection of Waters (Chairman - Corresponding Member, AS USSR, O. A. Alekin). Over 400 reports on all principal problems of the hydrology of continents were delivered and discussed at the sections. The author lists the work performed during the 40 years of Soviet regime and speaks of current needs. The Congress adopted several decisions, approving the resolutions of the sections, and considered it necessary to establish an inter-departmental committee to co-ordinate scientific research work. The Congress decided to take necessary measures for an urgent exploitation of the State Hydrological Institute's River-Bed Laboratory, whose activity should further the solving of important scientific problems in the field of hydrodynamics and river-bed processes. Future hydrological congresses

Card 3/4

The Third All-Union Hydrological Congress

SOV-98-58-2-18/21

will convene once every 5 - 7 years.

1. Hydrology---USSR 2. Water power--USSR

Card 4/4

SHUMEL', S.

Plans should be worked out fast, well, and economically.  
NTO 2 no.1:18 Ja '60. (MIRA 13:5)

1. Predsedatel' soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva "Gidroenergoprojekta."  
(Hydroelectric power stations)

SHUMELISHSKIY, M. G.

"Character of Recovered Liquid Oxygen at the Gasification Plant of the Machine Building  
Factory," Kislod, No. 2, 1944.

SHUMELISHSKIY, M.

KRYLOV, K., inzhener; SHUMELISHSKIY, M., inzhener.

Ejector-type refrigerating machine for general use. Khol.tekh.  
31 no.3:16-22 J1-S '54. (MLBA 7:9)  
(Refrigeration and refrigerating machinery)

SHUMELISHSKIY, M., inzhener

Diagram of the heat balance in the jet compressor refrigerating  
machine. Khol.tekh. 32 no.1:12-14 Ja-Mr '55. (MLRA 8:7)  
(Refrigeration and refrigerating machines)



SHUMELISHSKIY, M., inzhener.

Causes for irregular functioning of ejector-type steam coolers.  
Khol.tekh. 32 no.3:22-28 J1-S '55. (MLBA 9:1)  
(Refrigeration and refrigeration machinery)

SHUMELISHSKIY, M., inzh.; BEZHANISHVILI, E., inzh.; SMOYLOVSKAYA, I., inzh.

Two-stage ammonia refrigerating machine for refrigerator ships.  
Khol.tekh. 33 no.4:11-18 O-D '56. (MIRA 12:1)  
(Refrigeration and refrigerating machinery)  
(Refrigeration on ships)

SHUMELISHSKIY, M., inzh.

Regulating the capacity of steam jet refrigeration units. Khol.  
tekh. 35 no.2:13-15 Mr-Ap '58. (MIRA 11:4)  
(Refrigeration and refrigerating machinery)

GUREVICH, Ye., inzh.; SHUMELISHSKIY, M., inzh.; YALIMOVA, Ye., inzh.

Single-stage compressors using Freon 22 at low-boiling temperatures.  
Khol.tekh. 35 no.5:24-29 S-0 '58. (MIRA 11:11)

1. Tsentral'noye konstruktorskoye byuro kholodil'nogo mashinostroyeniya (for Gurevich).
  2. Moskovskiy zavod "Kompessor" (for Shulelishskiy, Yalimova).
- (Refrigeration and refrigerating machinery) (Methane)

14(1)

SOV/66-59-4-5/28

AUTHOR: Shumelishskiy, M., Engineer

TITLE: Steam Ejecting Refrigerating Machine Utilizing Low Temperature Heat

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 4, pp 21-24 (USSR)

ABSTRACT: The article describes a steam ejecting refrigerating machine, 11E, designed by the Moscow Plant "Kompressor" for use in metallurgical plants. As source of thermal energy, low pressure steam of 1 atmosphere is used, generated in the evaporator cooling system of Martin furnaces. The machine consists of a vertical mixing condenser and a horizontal evaporator mounted on the top of the condenser, surrounded by 6 vertical principal ejectors. A block of auxiliary air ejectors with an intermediate condenser are mounted on brackets fastened to the condenser. All these elements form one unit. The first industrial sample of this machine was installed in the Central Refrigeration Plant of the Zakavkazskiy Metallurgicheskiy Zavod (Transcaucasian Metallurgical Plant) in Rustavi. The installation is planned for 6 machines with a total refrigeration capacity of 6 million kcal/hr. The article describes the operation of the installation which uses the method of T. Messing (1) as a means of

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SOI/66-59-4-5/28

Steam Ejecting Refrigerating Machine Utilizing Low Temperature Heat

evaluating its energy characteristics. In accordance with graph 5 the machine 11E can be considered, as far as energy indices are concerned, equal to corresponding ejector type refrigerators of foreign make and can therefore be recommended for water cooling in metallurgical and other plants where exhaust steam is available.

There are: 2 diagrams, 1 photo, 2 graphs, 1 table and 2 references, 1 of which is Soviet and 1 German.

ASSOCIATION: Moskovskiy Zavod "Kompessor" (Moscow Plant "Kompessor")

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PHASE I BOOK EXPLOITATION

SOV/5400

Shumelishskiy, Mark Grigor'yevich

Ezhektornyye kholodil'nyye mashiny (Ejector Refrigerating Machinery) Moscow, Gostorgizdat, 1961. 158 p. 5,000 copies printed.

Ed.: N.V. Chichkov; Tech. Ed.: E.M. El'kina.

**PURPOSE:** This book is intended for engineers and technicians concerned with the design and operation of refrigerating machinery.

**COVERAGE:** The book deals with the theory and design of ejector refrigerating machinery. Thermal characteristics and data for their computation and formation are included. Research and design materials of the "Kompessor" plant were used in the compilation of this book. The author thanks Professor L.M. Rozenfel'd, Doctor of Technical Sciences, and the following workers of the "Kompessor" plant: K.I. Krylov, T.A. Mysev, L.S. Smarkalin, Yu. A. Shaposhnikov, G.I. Andrianova, and Ye. I. Yalimova. There are 20 references: 14 Soviet and 6 German.

Card 1/4

SHUMELISHSKIY, M.G.

Manufacturing new refrigerating equipment. Khol. tekhn. 38 no.5:  
13-19 S-0 '61. (MIRA 15:1)

1. Glavnyy konstruktor zavoda "Kompessor".  
(Refrigeration and refrigerating machinery)



SHUMELISHSKIY, M.G., inzh.; BEZHANISHVILI, E.M., inzh.; RASTORGUYEV, V.P.,  
-inzh:

Design characteristics and testing results of the type DAU-80  
ammonia two-stage compressor. Khol.tekh. 39 no.2:4-9 Mr-Ap  
'62. (MIRA 15:4)

1. Moskovskiy zavod "Kompessor".  
(Refrigeration on ships) (Compressors)

GUREVICH, Ye.S., inzh.; SOFER, A.A., inzh.; ROMANOVSKIY, N.V., inzh.;  
SHUMELISHSKIY, M.G.; BEZHANISHVILI, E.M., inzh.;  
YAKOBSON, Ye.V., inzh.

Development of the design of large refrigeration compressors.  
Khol. tekhn. 39 no.5:4-11 S-0 '62. (MIRA 16:7)

1. Tsentral'noye konstruktorskoye byuro kholodil'nogo mashino-  
stroyeniya (for Gurevich, Sofer, Romanovskiy). 2. Moskovskiy  
zavod "Kompessor" (for Shumelishskiy, Bezhnashvili, Yakobson).  
(Refrigeration and refrigerating machinery)

Shumelyak, G. P.

Color photography. Yu. B. Vilenkil, M. A. Al'perovich, G. P. Shumelyak, P. N. Budarin, B. I. Tul'chinskaya, and G. I. Ginzva. U.S.S.R. 106,548, Aug. 28, 1957. For developing color pictures, phenylalkyl phosphorus acids or their salts are used. The use of these nondiffusing substances between the layers of the film or inside the layers prevents the diffusion of color from layer to layer.

Distr: 4E2d

M. Hosh

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7

1/1

S/058/63/000/003/044/104  
A062/A101

AUTHORS: Bogolyubov, V. A., Shumelyak, G. P., Grechko, L. V., Vilenskiy, Yu.B.

TITLE: Investigation of non-diffusing reducers for color multilayer films

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 86, abstract 3D583  
("Uspekhi nauchn. fotogr.", 1962, no. 8, 61 - 66)

TEXT: Non-diffusing reducers are employed in color films for removing two effects of the interaction between emulsion layers: 1) the non-selective formation of dyes due to the diffusion of intermediate products of oxidation of the developing substance from the layers, that contain dye forming elements with a low reaction capacity, into the neighboring layers, and 2) the formation of a higher fog on the contact boundary of emulsion layers with the filter layer of colloid Ag (contact fog). There are described the results of the investigation of non-diffusing reducers - derivatives of hydroquinone. It is shown that with an increase of the number of carbon atoms in the alkyl substitution agents the diffusion stability and the antifog action increase from 2,5-dibutylhydroquinone to 2,5-dioctylhydroquinone, and then somewhat decrease because of the bad solu-

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Investigation of non-diffusing reducers for...

S/058/63/000/003/044/104  
A062/A101

bility of the dialkylhydroquinones. The same law was observed in a number of 2,5-bis-(dialkylaminomethyl)-hydroquinones; however the application of some dialkylhydroquinones and 2,5-bis-(dialkylaminomethyl)-hydroquinones was limited by the formation of dyed compounds in their photographic processing. There was studied the formation of dyed compounds from 2,5-dialkylhydroquinones and 2,5-bis-(dialkylaminomethyl)-hydroquinones and the purple component 1-(4-phenoxy-3-sulphophenyl)-3-octadecylpyrazolone-5. It is established that the formation reaction of the dyed compound takes place at the Ag bleaching stage of the image by potassium ferriocyanide. When treating a film, that contains a non-diffusing reducing agent, by potassium ferricyanide, oxidation of the film to the corresponding quinone takes place. There are described the chemical structure and spectral properties of some dyes which are formed at the interaction of that quinone with the dye forming components.

D. Balabukha

[Abstracter's note: Complete translation]

Card 2/2

SHUMELYAK, G.P.: AL'PEROVICH, M.A.

Some polymethine dyes with a residue of 4,5-(2'-methyl-5',4'-thiazolo)thiazole. Zhur.ob.khim. 34 no.1:251-254 Ja '64. (MIRA 17:3)

1. Filial Nauchno-issledovatel'skogo kinofotoinstituta, g. Shostka.

BOGOLYUBSKIY, V.A.; SHUMELYAK, G.P.

Alkylation of phenol with alcohols and unsaturated hydrocarbons in the presence of hydrochloric acid solutions of zinc chloride. Zhur.prikl. khim. 37 no.1:226-227 Ja '64. (MIRA 17:2)

1. Shostkinskiy filial Vsesoyuznogo nauchno-issledovatel'skogo kino-fotoinstituta.

AL'PEROVICH, M.A.; SHUMELYAK, G.P.

Hydrolytic decomposition of 3-ethyl-4,5-(2'-methyl-5',4')  
thiazoline-4-thione. Zhur. org. khim. 1 no.4:797-798 Ap '65.  
(MIRA 18:11)

1. Nauchno-issledovatel'skiy kinofotoinstitut, Shostkinskiy  
filial.



SHUMELYAK, P.

Accept only fattened poultry. Mias. ind. SSSR 29 no.1:35-36  
'58. (MIRA 11:3)

1. Direktor Kamenets-Podol'skogo ptitsekombinata.  
(Poultry plants)

SHUMENKO, B.M.

Repair of collective farm machinery is a work of great  
importance. Mekh.sil'.hosp. 10 no.12:11-12 D '59.  
(MIRA 13:3)

1. Inzhener-kontroler Borispol'skoy temontno-tekhnicheskiy  
stantsii, Kiyevskoy oblasti.  
(Agricultural machinery--Maintenance and repair)

SHUMENKO, S.I.

Some properties of marly chalk rocks from the viewpoint of  
engineering geology and their structural characteristics. Tit. I  
pol.iskop. no.2:302-309 '63. (MIRA 17:10)

1. Khar'kovskiy u.iversitet, Khar'kov.

LOGVINENKO, N.V.; SHUMENKO, S.I.

Thermography of caustobolites and clayey minerals. Izv. AN SSSR.  
Ser. geol. 26 no. 6: 101-109 Je '61. (MIRA 14:6)

1. Khar'kovskiy gosudarstvennyy universitet.  
(Thermal analysis) (Caustobolites) (Clay)

SHUMENKO, S.I.

Clay minerals in marly chalk rocks of the Northern Donets Valley.  
Dokl.AN SSSR 138 no.1:199-202 My-Je '61. (MIRA 14:4)

1. Khar'kovskiy universitet im.A.M.Gor'kogo. Predstavleno  
akademikom N.M.Strakhovym.  
(Northern Donets Valley--Clay)

SHUMENKO, S.I.

Varieties of authigenous sedimentary heulandite in Upper Cretaceous deposits of the Ukraine. Dokl. AN SSSR. 144 no.6:1347-1350 Je '62. (MIRA 15:6)

1. Khar'khvskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Predstavleno akad. N.M.Strakhovym. (Ukraine--Heulandite)

SHUMENKO, S.I.

Determination of deformations of cores based on their textural characteristics. Razved. i okh. nedr 26 no.2:45-46 Feb. '60.  
(MIRA 14:6)

1. Institut "Gidroyekt" USSR.  
(Core drilling)

YANOV, E.N.; STRAKHOV, N.M.; KRASHENNIKOV, G.F.; ARUSTAMOV, A.A.; GEYSLER, A.N.; GRAMBERG, I.S.; LIBROVICH, V.L.; MIKHAYLOV, B.M.; NEKRASOVA, O.I.; PISARCHIK, Ya.K.; POLOVINKINA, Yu.I.; TATARSKIY, V.B.; SHUMENKO, S.I.

Reviews and discussions. Lit. i pol. iskop. no.6:85-89 and 91-119  
N-D '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut, Leningrad. (for Yanov). 2. Geologicheskii institut AN SSSR, Moskva. Submitted July 12, 1965 (for Strakhov). 3. Moskovskiy gosudarstvennyy universitet (for Krashennikov). 4. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya, g. Alma-Ata (for Arustamov).



LOGVINENKO, N.V.; SHUMENKO, S.L.

Study of elastic quartz. Dokl. AN SSSR 110 no.4:647-650 O '56.  
(MLRA 10:1)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.  
Predstavleno akademikom N.M. Strakhovym.  
(Quartz)

BELOTSERKOVSKIY, I.G.; CHENTEMIROV, M.G.; SHUMENKOV, P.P.; MAKSIMOV,  
N.P., nauchnyy red.; GERASIMOVA, G.S., red. izdpva; BOROVNEV,  
N.K., tekhn. red.

[New developments in planning labor in construction;  
practices of the Kuybyshev Economic Council]Novoe v plani-  
rovanii truda v stroitel'stve; opyt Kuibyshevskogo sovnar-  
khoza. Moskva, Gosstroizdat, 1962. 57 p. (MIRA 15:9)  
(Kuibyshev Province---Construction industry---Labor productivity)

SHUBENKOV, Pavel Pavlovich; LEVCHENKO, Leonid Dmitriyevich;  
MAKSIMOV, N.P., nauchn. red.; GLAZUNOVA, Z.M., red.

[Ways of increasing labor productivity in housing  
construction] Puti povysheniia proizvoditel'nosti truda  
v zhilishchnom stroitel'stve. Moskva, Stroiizdat, 1964.  
64 p. (MIRA 17:7)

SHUMENKOVA, Yuliya Makarovna; SHILIN, Aleksey Karpovich; MESEZHNIKOV, M.S.,  
nauchnyy red.; NEVEL'SHTEYN, V.I., vedushchiy red.; ZHIKHAREVA,  
M.Ya., tekhn.red.

[Key wells of the U.S.S.R.; Maksimkin Yar key well (Tomsk Province)]  
Opornye skvazhiny SSSR; Maksimkin-Iarskaia opornaia skvazhina  
(Tomaskaia oblast'). Leningrad, Gos.nauchno-tekhn.izd-vo نفت. i  
gorno-toplivnoi lit-ry. Leningr.otd-nie, 1961. 129 p. (Leningrad.  
Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi  
institut. Trudy, no.166). (MIRA 14:12)

(Maksimkin Yar region--Petroleum geology)

(Maksimkin Yar region--Gas, Natural--Geology)

BOROZDEN'KOV, V.I.; SHUMENSKIY, K.P., kand. fiz.-mat. nauk,  
retsenzent; STEPKIN, O.S., inzh., retsenzent; KARGANOV,  
V.G., inzh., red.

[Vacuum pumps in the chemical industry] Vakuum-nasosy v  
khimicheskoi promyshlennosti. Moskva, Izd-vo "Mashino-  
stroenie," 1964. 98 p. (MIRA 17:6)

L 62572-65

ACCESSION NR: AP5019206

UR/0351/65/000/007/0030/0031  
635.0:631.563

17  
B

AUTHOR: Shumetov, G.<sup>44</sup> (Candidate of agricultural sciences)

TITLE: Storage of carrots and cabbages with active ventilation

SOURCE: Kartoffel' i ovoshchi, no. 7, 1965, 30-31

TOPIC TAGS: food, food preservation,<sup>44</sup> ventilation/06 320 No. 6 fan, DTKM 37 thermostat

ABSTRACT: Experiments were performed on storing carrots and cabbages in piles 1.5 and 2-3 meters high. Power ventilation was used. The Chantenay variety of carrot was piled into the wooden experimental bins (with grate-floors) at the beginning of October; 7500 m<sup>3</sup>/hour of air were blown into the space beneath the grates by a centrifugal fan 06-320 No. 6 driven by a 1-kw motor. Outside air proceeded to the ventilator through a wooden shaft equipped with a damper and a recirculation air-duct for mixing of inside and outside air. Temperature was controlled by a DTKM-37 automatic thermostat. During winter the temperature and the humidity varied from -0.5 to +1C and from 90 to 96% respectively. For comparison, carrots were also stored in sand and in wooden crates under natural.  
Card 1/2

L 62572-65

ACCESSION NR: AP5019206

0

aeration. Experimental observations were taken from Oct. 12, 1964 to April 1, 1965. Final results of the active airing and the sand-storage were the same, 93% of undamaged produce against 61% under natural aeration. The first method was preferred because sand storage required more work and called for more space. Keeping of the "Amager" cabbage under similar conditions but arranged in a layer 2.5 m high, with temperature-humidity variations +1 to -1C and 90-95, respectively, and with ventilation intensity 115 m<sup>3</sup>/hour for 1 ton of cabbage, doubled the output of undamaged produce as compared with the method of shelf-storage and natural ventilation. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS, 60

NO REF SOV: 000

OTHER: 000

Card 2/2

SHUMTOV, G.F., agronom.

Irrigation of vegetable crops on collective farms in the zone of the Saburovo Machine-Tractor Station in Orel Province. Gidr. 1 mel.8no.10: 33-38 0 '56. (MLRA 9:10)  
(Orel Province--Irrigation farming)



SHUMETOV, Georgiy Fedorovich, nauchnyy sotr.; SEDOVA, Zinaida  
Afnas'yevna, nauchnyy sotr.; SLEPTSOVA, K., red.; NEMYTOV, V.,  
tekh. red.

[Storing and processing potatoes, vegetables, and fruit] Khranenie  
i pererabotka kartofelia, ovoshchei i plodov. Orel, Orlovskoe  
knizhnoe izd-vo, 1960. 112 p. (MIRA 14:12)  
(Potatoes--Storage) (Vegetables--Storage)  
(Fruit--Storage)

VOLKIND, I.L., inzh.; KLEKOVKIN, E.M.; SHUMETOV, G.F., agronom;  
KRAVCHENKO, M.M., ekonomist.

Storage for field crops of collective farms and state farms.  
Izv. ASiA no.4:54-62 '61. (MIRA 16:11)

CHUMETOV, G.F.

Effect of summer planting and early harvesting on the quantity  
of soluble protein and starch in potato tubers. *Agrobiologiya*  
no. 2:298-300 Mos 4p '64. (MIRA 17:6)

1. Ural'skaya ploskovo-yuzhinskaya opylnaya stantsiya.

L 62572-65

ACCESSION NR: AP5019206

UR/0351/65/000/007/0030/0031  
635.0:631.563

17  
B

AUTHOR: Shumetov, G. (Candidate of agricultural sciences)

TITLE: Storage of carrots and cabbages with active ventilation

SOURCE: Kartofel' i ovoshchi, no. 7, 1965, 30-31

TOPIC TAGS: food, food preservation, ventilation/06 3:0 No. 6 fan, DTKM 37  
thermostat

ABSTRACT: Experiments were performed on storing carrots and cabbages in piles 1.5 and 2-3 meters high. Power ventilation was used. The Chantenay variety of carrot was piled into the wooden experimental bins (with grate-floors) at the beginning of October; 7500 m<sup>3</sup>/hour of air were blown into the space beneath the grates by a centrifugal fan 06-320 No. 6 driven by a 1-kw motor. Outside air proceeded to the ventilator through a wooden shaft equipped with a damper and a recirculation air-duct for mixing of inside and outside air. Temperature was controlled by a DTKM-37 automatic thermostat. During winter the temperature and the humidity varied from -0.5 to +1C and from 90 to 96% respectively. For comparison, carrots were also stored in sand and in wooden crates under natural.

Card 1/2

L 62572-65  
ACCESSION NR: AP5019206

0

aeration. Experimental observations were taken from Oct. 12, 1964 to April 1, 1965. Final results of the active airing and the sand-storage were the same, 93% of undamaged produce against 61% under natural aeration. The first method was preferred because sand storage required more work and called for more space. Keeping of the "Amager" cabbage under similar conditions but arranged in a layer 2.5 m high, with temperature-humidity variations +1 to -1C and 90-95, respectively, and with ventilation intensity 115 m<sup>3</sup>/hour for 1 ton of cabbage, doubled the output of undamaged produce as compared with the method of shelf-storage and natural ventilation. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS, G O

NO REF SOV: 000

OTHER: 000

Card 2/2

STUMBEVICH, M.G., and KVASHNIKOV, Y.I.

MIKROBIOLOGIYA Vol. 22. No. 3, P. 267, 1953.

"Sour milk bacteria in epyphitic microflora of Central Asia."

MOROZOV, G.M.; BAZANOV, N.I.; IVANIN, A.G.; OSTAPENKO, A.N.; TENNOV,  
G.P.; SHUMEYEV, B.G.; MAKAROV, A.N. [translator]; KOMAROV, A.V.,  
red.; DOTSENKO, A.A., tekhn.red.

[Sports in foreign countries; track athletics; collected materials]  
Sport za rubezhom; legkaya atletika. Sbornik materialov. Moskva,  
Gos.izd-vo "Fizkul'tura i sport," 1959. 208 p. (MIRA 13:4)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut fizi-  
cheskoy kul'tury.

(Track athletics)

А.И.И.И.И.

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ACCESSION NR: AP4039007

S/0136/64/000/005/0066/0069

AUTHOR: Layner, A. I.; Kolenkova, M. A.; Shumeyko, A. I.; Kurlyand, V. M.

TITLE: Zircon - Soda Interaction

SOURCE: Tsvetny\*ye metally\*, no. 5, 1964, 66-69

TOPIC TAGS: melting, ZrSiO, caustic soda, sintering, leaching, extraction, ZrO sub 2

ABSTRACT: Considering the difficulties involved in the industrial melting of ZrSiO with caustic soda, the authors studied the decomposition of ZrSiO concentrates by Na in quantities necessary for the formation of zirconium silicate sodium by sintering. The effects of different amounts of sodium and of sintering temperatures was observed at 900, 1000 and 1100 C, with different Na<sub>2</sub>CO<sub>3</sub>; ZrSiO<sub>4</sub> ratios and an invariable molar ratio of Na<sub>2</sub>CO<sub>3</sub>: Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub> = 1. Assuming that soda dissociates upon the removal of CO<sub>2</sub>, the ZrO<sub>2</sub> contents in the cake would decline as the amount of soda is increased and could be predetermined. Chemical analysis at 1100 C corroborated this possibility. Optimal sintering time for specimens with Na<sub>2</sub>O/ZrSiO<sub>4</sub> = 1, 2 and held for 15 to 120 minutes at 1100 C was

Card 1/2

ACCESSION NR: AP4039007

60 minutes. For the purpose of extracting  $ZrO_2$ , ground specimens were leached with a 40% solutions of  $H_2SO_4$ . An increase in acid from 80 to 115% to the stoichiometric amount was found to enhance  $ZrO_2$  extraction only up to 128%. An increase of 20 to 60 C in the leaching temperature raises  $ZrO_2$  extraction from 70 to 93%. Further temperature increases have no effect. A double leaching cycle with stoichiometric quantities of the acid provided 97 - 97.5%  $ZrO_2$  extraction. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 04Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Card 2/2

22

cc

Technical method for manufacturing terpinol from Russian turpentine. A. K.  
 Shtumriko. *Zhur. Prikladnoi Khim.* 3, 541, 53 (1939) -- The use of 65% H<sub>2</sub>SO<sub>4</sub> is recom-  
 mended. The max. permissible temp. is 5°. The yield is approx. the same for H<sub>2</sub>SO<sub>4</sub>.  
 turpentine ratios of 1:1.5-4.0. Good contact speeds up the reaction. Complete direc-  
 tions are given. V. KALICHEVSKY

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUP	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							
GROUP																																																									

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

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UQ UR US UT UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VQ VR VS VT VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WQ WR WS WT WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YQ YR YS YT YU YV YW YX YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

PRECEDENCE AND PRIORITY MARKS

100

Flotation oil. A. K. Shumeiko. Russ. 50,027, March 31, 1937. Turpentine is treated with H<sub>2</sub>SO<sub>4</sub> (d. 1.50-1.51) at a temp. below 0°, the reaction mixt. is dild. with cold water, the upper layer sepd. and heated with water to a homogeneous liquid.

100

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

100

PROCESSES AND PROPERTIES INDEX

10

*32*

Esters. K. N. Kinzerskaya and A. K. Shumeiko.  
Russ. 65,037, Sept. 30, 1930. Esters are prept. from  
aromatic ams. and aromatic carboxylic acids in the pres-  
ence of phenolates of alkali metals as catalysts.

ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUPS

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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PROCESSES AND PROPERTIES INDEX

17

CA

Purification of coumarin. A. K. Shumetko. Russ. 57,254, June 30, 1940. Crude coumarin dissolved in an org. acid (e. g., 30% HCl) is treated with formaldehyde with substances that form formaldehyde under the process conditions. The soln. of coumarin is then dild. with water and the product which seps. is treated in the usual manner.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

19000 57102174

10

*old*

**Coumarin solutions in mineral acids and extraction of pure coumarin.** A. K. Shumeko. *J. Applied Chem.* (U. S. S. R.) 13, 1204-7 (in French, 1207) (1940). — The soln. of coumarin (I) was max. in 54-55% H<sub>2</sub>SO<sub>4</sub>, 70-25% H<sub>3</sub>PO<sub>4</sub>, and 30-35% HCl and higher; below these concns. the soln. of I rapidly decreased to that in water. The 1:1 soln. of I in 55% H<sub>2</sub>SO<sub>4</sub> remained transparent up to the b. p. of the soln., while a 1:5 soln. became turbid at 80-7° and formed 2 layers at higher temps. The soln. of 1 part of I in 1.13 parts of 48.4% H<sub>2</sub>SO<sub>4</sub> formed 2 layers at temps. above 69° and a ppt. at 49°. I in 43.1% H<sub>2</sub>SO<sub>4</sub> (1.1.22) did not form a homogenous soln. at all, and crystals sepd. at 55°. Heating the soln. of I in acids with a few drops of formalin for 10 min. did not cause any change in color or disappearance of the formalin odor and did not affect I at all. However, similar treatment of tech. I caused disappearance of the odor of formalin and coloring (red) of the soln. and appearance of the odor of pure I. On the basis of these observations, the following method was proposed for the extrn. of I from the reaction mixt. after synthesis of I by the condensation of salicylaldehyde. Treat the crude I (50-55%) with an equal wt. of 60-5% H<sub>2</sub>SO<sub>4</sub>, mix for 30 min., remove the lower layer and ext. the upper layer with half its wt. of the same acid. Repeat 3-4 times. Heat the combined ext. to 50-60°, add formalin till its odor does not disappear, filter, dil. with hot water to 30% H<sub>2</sub>SO<sub>4</sub>. The upper layer is washed with warm water (70-5°) to neutral reaction to Congo red. Dry I *in vacuo*, and distil at 3-5 mm. Recrystallize from alc. Cool the lower layer and recrystallize from alc.

A. A. Podkornv

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM: ROMANOV

REVISION: 1941

10

*ca*

Isone homologs. P. Ya. Lozhakov and A. K. Shumakov. Russ. 56,849, Apr. 30, 1941. Addn. to Russ. 56,782 (C. A. 36; 2870<sup>a</sup>). The method of Russ. 56,782 is applied to the prepn. of isone homologs.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM BOMIRG

GROUP

SECTION

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



PROCESSES AND PROPERTIES INDEX

10

PO

**Synthesis of pbenzylacetalsdehyde** A. K. Shumeiko  
*J. Applied Chem. (U. S. S. R.)* 14, 93-5 (in German, 1957  
 (1941).—A flask equipped with a strong agitator is charged  
 with 96 g.  $\text{Na}_2\text{Cr}_2\text{O}_7$ , 140 g.  $\text{H}_2\text{SO}_4$ , 395 g.  $\text{H}_2\text{O}$  and 800 g.  
 PhMe,  $\text{C}_6\text{H}_6$ , or oil residues from the previous reactions.  
 A mixt. of 100 g.  $\text{PhCH}_2\text{CH}_2\text{OH}$  and one of the above sol-  
 vents is added under agitation. The reaction temp. rises  
 to 65-70° within 3-5 min., becomes stationary for 10 min.  
 and then decreases. The color changes from dark brown  
 to green and the soln. is transparent. After 15-30 min. of  
 oxidation the mixt. is poured into a separatory funnel fol-  
 lowed by careful introduction of 50 ml. water alongside the  
 walls to form an intermediate layer between the org. sol-  
 vent and the soln. of Cr. The lower layer is decanted and  
 the upper layer contg. the  $\text{PhCH}_2\text{CHO}$  and the org. sol-  
 vent, the unreacted  $\text{PhCH}_2\text{CH}_2\text{OH}$  and other by-pro ducts  
 is washed with water till neutral to Congo. To the mixt.  
 is then added a 30% soln. of bisulfite (175 g.), followed by  
 agitation and dild. with 800 g. warm water to dissolve the  
 crystals of the bisulfite compd. The mixt. is then placed  
 in a separatory funnel and allowed to stand until the lower  
 layer has become clear and the bisulfite compd. has set-  
 tled. The latter is finally sepd., weighed and analyzed for  
 the content of free and combined bisulfite. The soln. is  
 steam-distd. and an equiv. amt. of  $\text{HCHO}$  is added.  
 From the settled soln. is recovered 43 g. of  $\text{PhCH}_2\text{CHO}$  by  
 distn. The final product has  $n_D^{20}$  1.5335-1.5337,  $d_4^{20}$   
 1.0423-1.0512. About 10% of the product is lost during  
 distn. *in vacuo.* A. A. Bochtlingk

METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC INDEX

SHUMEYKO, A. K.

SHUMEYKO, A. K. -- "Methods of Synthesis of Some Perfumes Based on the Use of Phenylethyl Alcohol." Sub 21 Apr 52, All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

*Shumeyko, A.K.*

LEETS, K.V., kand. khim. nauk; KACHANOV, Ya.Ye., inzh.; SHUMEYKO, A.K., kand. khim. nauk.

Industrial synthesis of terpene derivatives from chemical raw materials. Masl.-zhir. prom. 23 no.8:33-35 '57. (MIRA 10:12)

1. Leningradskiy zavod sinteticheskoy aromatiki.  
(Terpenes) (Perfumery)

BELOV, V.N.; DAYEV, N.A.; KUSTOVA, S.D.; LEETS, K.V.; PODDUBNAYA, S.S.  
SKVORTSOVA, N.I.; SHEPELENKOVA, Ye.I.; SHUMEYKO, A.K.

A new process for irone synthesis. Zhur.ob.khim. 27 no.5:1384-1389  
My '57. (MLRA 10:8)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh  
i natural'nykh dushistykh veshchestv.  
(Irone)

SHUMIL 7 N O P R

Distr: 4E4J/4E2c(j)

New synthesis of citral from isoprene. K. V. Leets, A. K. Shumeiko, A. A. Rozhnok, N. V. Kudryashova, and A. I. Pilyavskaya (Synthetic Perfumes Plant, Leningrad). Zhur. Dornikel Khim. 27, 1510-12(1957).—Addn. of 70 g. dry HCl to 400 g.  $\text{CH}_2=\text{CMeCH}=\text{CH}_2$ , followed by diln. with 787 g.  $\text{CH}_2\text{Cl}_2$  and addn. with cooling of 1 g.  $\text{SnCl}_4$  and after 2 min. 20 g.  $\text{CO}(\text{NH}_2)_2$ , gave, after filtration of pptd. telomers, 98 g. products which yielded 50.5 g. terpenic chlorides,  $\text{C}_{15}\text{H}_{21}\text{Cl}$ , b<sub>p</sub> 60-85°. This (41.5 g.) in dry  $\text{Me}_2\text{CO}$  treated with 17 g. urotropin 3 days yielded 31.6 g. quaternary salt,  $\text{C}_{15}\text{H}_{21}\text{N}_4\text{Cl}$ . This (30 g.) in 1.2 l.  $\text{H}_2\text{O}$  was treated with 20 g. 30% formalin, refluxed 0.5 hr., and steam-distd., yielding 10 g. citral, b<sub>p</sub> 66-70°, which was converted to authentic pseudonone and ionone. The  $\text{Me}_2\text{CO}$  soln. of residual chlorides after sepn. of the quaternary salt (above) was heated 2 hrs. with 10 g. urotropine, the sepd. crystals filtered off, the soln. evapd., the residual chloride hydrolyzed with aq. alc.  $\text{Pb}(\text{NO}_3)_2$  and  $\text{PbCO}_3$  3 hrs. at reflux, and the resulting alc. converted to the borates by treatment with  $(\text{BuO})_2\text{B}$ , which after sepn. by distn. and hydrolysis gave 8 g. terpenyl alc., identified as *d*- $\alpha$ -terpineol, m. 33°. G. M. Kosolapoff

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SHUMBYKO, A.K.; KENIN, S.L.; VALOVA, N.V.; ROZENOYER, A.A.

Separation of pure alcohols from a mixture by means of boric  
esters. Trudy VNIISNDV no.6:19-21 '63. (MIRA 17:4)

L 13832-66 EWT(m)/EWP(j) DIAAP RM

ACC NR: AP6002680

SOURCE CODE: UR/0048/65/029/012/2243/2246

44  
41  
53

AUTHOR: Korotkov, K.A.; Shumeyko, A.P.

ORG: Voronezh State University (Voronezhskiy gosudarstvennyy universitet)

TITLE: Investigation of internal bremstrahlung <sup>19.44.55</sup> accompanying beta decay of phosphorus-32 with a two-crystal scintillation spectrometer employing pulse addition/Transactions of the Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure held at Minsk 25 January to 2 February 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2243-2246

TOPIC TAGS: bremsstrahlung, beta decay, phosphorus, scintillation spectrometer, Compton effect, spectral energy distribution,

ABSTRACT: The internal bremsstrahlung spectrum of P<sup>32</sup> was recorded from 300 to 1440 keV with a two-crystal scintillation spectrometer employing pulse addition. Compton scattered photons and the corresponding recoil electrons were detected in two 40 x 40 mm NaI crystals. The pulses from the two photomultipliers were brought both to a coincidence circuit with a resolving time of 100 nanosec and to an adder. The output of the adder, a pulse whose height was equal to the sum of the heights of the two input pulses, was accepted by the 100-channel pulse height analyzer only when the latter was triggered by a pulse from the coincidence circuit. A single-channel pulse height analyzer in one of the input lines to the coincidence circuit was adjusted to pass pulses arising photons that had undergone 180° Compton scattering. The resolution

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ACC NR: AP6002680

of the spectrometer was 10% at 660 keV; it was calibrated three times a day against 5 different gamma lines, and the calibration did not change by more than 1% during recording of the internal bremsstrahlung spectrum. The  $P^{32}$  source with an activity of  $5.3 \times 10^5$  decays/sec was deposited on a 2 $\mu$  plastic film fastened to a Plexiglas disk, and mounted 2 cm from the analyzing scintillator and 6.5 cm from the control scintillator. Direct access of beta particles to the scintillators was prevented by two 1.025 g/cm<sup>2</sup> disks of beryllium. The accidental coincidence rate was determined by introducing a delay line in one of the coincidence circuit inputs, and was subtracted from the data. Corrections were introduced for decay of the source, the energy resolution of the spectrometer, the gamma-ray recording efficiency, the residual continuous distribution accompanying the total absorption line, external bremsstrahlung in the beryllium absorbers, and miscounting. At all energies the measured internal bremsstrahlung was higher than given by the theories of J.K.Knipp and G.E.Uhlenbeck (Physica, 3, 425 (1936)), S.B.Nilsson (Arkiv fys., 10, 467 (1956)), and R.R.Lewis and G.W.Ford (Phys. Rev., 107, 756 (1957)). The measurements were in agreement with the theory of G. Felsner (Z. Phys., 174, 43 (1963)) only over the narrow range from 850 to 1150 keV; at higher energies the observed internal bremsstrahlung intensity was greater than the predicted, and at lower energies it was less. The total energy of the internal bremsstrahlung was found to be  $2.63 \times 10^{-3}$ , mc<sup>2</sup>/ $\beta$ . The present measurements are in good agreement with those of K.Linden and N.Starfelt (Phys.Rev., 97, 419 (1955)) and K.A.Korotkov and A.M.Chernikov (Izv.AN SSSR. Ser.fiz., 24, No.7, 899 (1960)). Orig. art. has: 2 figures and 1 table.

SUB CODE: 18

SUBM DATE: none ORIG. REF: 001 OTH REF: 016

Card 2/2



SHUMEYKO, B.V.

Synthetic diamonds at the Poltava Turbomachinery Plant.  
Mashinostroitel' no.10:44 0 '64. (MIRA 17:11)

1. Glavnyy inzhener Poltavskogo turbomekhanicheskogo zavoda.

SHUMEYKO, G., kapitan-nastavnik

Radio-facsimile transmissions of hydrometeorological charts.  
Mor.flot 22 no.4:13-14 Ap '62. (MIRA 15:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i  
ekspluatatsii vodnogo transporta.  
(Hydrometeorology) (Radio facsimile)

CHUMENKO, G.G.

Joint nomographing of two functions up to the terms of higher order. Vest. Mosk. un. Ser. I: Mat., mekh. 20 no.2:10-15  
Mr.-Ap '65. (MIRA 18:6)

1. Kafedra matematicheskogo analiza Moskovskogo universiteta.

SHUMEYKO, G.

Remarks on some improvements in the construction of ocean-going  
vessels. Mor. i rech.flot 14 no.10:22 0 '54. (MIRA 7:11)

1. TsNIIEVT.  
(Naval architecture)

SHUMEYKO, G.

USSR/Physics of the Hydrosphere - Dynamics of Sea and Land Water, N-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36263

Author: Shumeyko, G.

Institution: None

Title: Problems of the Drift of Ships and Wind Surface Flows

Original

Periodical: Mor. flot, 1955, No 11, 9-11

Abstract: Popular explanation of the qualitative picture of the phenomenon of the drift of floating ships under the influence of wind and surface flow in the sea. It is indicated that with a ship speed less than 10 knots the determination of the angle of drift and of the speed losses is of great importance for winds of 4-5 balls and more.

Card 1/1

SHUMYKO 1956, 8-11  
Category : USSR/Radiophysics - Radiation of Radio Waves. Antennas

I-5

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4502

Author : Shumeyko, G.

Title : New Types of Passive Reflectors.

Orig Pub : Mor. flot, 1956, No 8, 29-30

Abstract : Description of a passive corner reflector for radar waves, developed in Sweden for floating boundary markers (buoys or spar buoys). The reflector, made of sheet metal, is in the form of a spiral bellows, attached to a vertical rod, and its reflecting ability is uniformly distributed over the horizon.

Card : 1/1

SHUMEYKO, G., kapitan dal'nego plavaniya.

New developments in radar. Mor.flot. 16 no.1:31 Ja '56.  
(MLRA 9:5)

(Radar in navigation)

SHUMEYKO, G., kapitan dal'nego plavaniya.

New types of passive reflectors. Mor.flot 16 no.8:29-30 Ag '56.

(MIRA 9:10)

1. Tsentral'nyy Nauchno-issledovatel'skiy institut ekonomiki i ekspluata-  
tsii vodnogo transporta.

(Beacons)



SHUMEYKO, G.K., starshiy kapitan-nastavnik.

Radar installations on the Rhine. Rech. transp. 16 no.4:36-37

Ap '57.

(MLRA 10:5)

(Rhine River--Radar)

SHUMEYKO, G. Kapitan dal'nego plavaniya.

New developments in ship radar devices. Mor. flot 17 no.4:30 Ap  
'57. (MLRA 10:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i  
ekspluatatsii vodnogo transporta.  
(Radar in navigation)

SHUMEYKO, G.K.

Floating beacon buoys with reflectors. Rech. transp. 17 no.1:3 of  
cover Ja '58. (MIRA 11:3)

(Beacons)

SHUMEYKO, G.K., kapitan

Ship handling on reservoirs in stormy weather. Rech. transp. 17  
no.3:38-39 Mr '58. (MIRA 11:4)

(Inland navigation)