

Intensification of Degreasing and Pickling  
Processes by Ultrasonics, by B. L. Agranat.

RUSSIAN, *Primeneniye*, *Lakrasochnyye Materialy i ikh*  
*Primeneniye*, No. 1, 1960, pp 58-62.

BIST 2246

Sci - ENGR

*176,456*

Dec 61.

Goldberg, K. M., Gelfandbeyn, N. M. and others.  
AUTOMATIC CONTROL OF THE COURSE OF  
ALCOHOLYSIS IN ALKYD RESINS. [1961] (9 p. (5 figs  
omitted) 9 refs.  
Order from LC or SLA m\$1.80, ph\$1.80      61-10558

Trans. of Leningradskiyev Materialy i Ikh Primeneniye  
(USSR) 1960, no. 1, p. 75-78.

A regular fluctuation of the electric conductivity of the reacting mass in the process of alcoholysis of vegetable oils by polyatomic alcohols is established. A method of controlling the alcoholysis process and of determining the moment of the attainment of equilibrium by the fluctuation of the resistance is developed. An apparatus is described for continuous automatic control and recording of the fluctuation of the resistance in the alcoholysis process. The use of the new method of control of the process of alcoholysis of vegetable oils by polyatomic alcohols makes it possible (1) to determine the optimum moment of stopping the process; (2) to shorten the time (Engineering--Chemical, TT. v. 5, no. 10)      (over)

61-10558

1. Alkyd resins--Production
  2. Alcohols--Chemical reactions
  3. Vegetable oils--Chemical reactions
  4. Polymer solutions--Conductivity
- I. Goldberg, K. M.
  - II. Gelfandbeyn, N. M.

61-10558

Office of Technical Services

(DC-4358)

Scientific-Technical Conference in Yaroslavl on the  
Paint and Lacquer Industry, by V. N. Izyumov, 2 pp.

RUSSIAN, per, Lakokrasochnyye Materialy i ikh  
Print , No 2, 1960, p 97.

JPRS 6033

Sci - Misc

Oct 60

TT-62-28702

Plyplina, A.I. and Rogovin, Z.A.  
INFLUENCE DES PIGMENTS SUR LA DESTRUCTION  
PHOTOCHIMIQUE DES NITRATES DE CELLULOSE  
DANS LES REVÊTEMENTS DE PEINTURES (Vliyaniye  
Pigmentov na Fotokhimičeskuyu Destruktsiyu Nitra-  
tov Tsellyulozy v Lakokrasochnykh Pokrytiyakh)  
(Effect of Pigments on Photochemical Destruction of  
Nitrocellulose in Lacquer Coating). 13p. (foreign  
text included) 5 refs. CNRS-VI 569.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28702

- I. Plyplina, A.I.
- II. Rogovin, Z.A.
- III. CNRS-VI 569
- IV. Centre National de la Recherche Scientifique, Paris

Trans. in French of Lakokrasochnye Materialy i  
Ikh Primenenie (USSR) 1960, no.3, p.36-38.

DESCRIPTORS: \*Nitrocellulose, Decomposition,  
\*Photochemistry, Pigments, Coatings, Varnishes.

(Materials--Finishes, TT, v. 11, no. 9)

Office of Technical Services  
European Translations Centre

Raskin, Ya.I., Livshits, R.M. and Berlin, A.A.  
COPOLYMERES GREFFEES A BASE DE NITROCELLULOSE. LEUR APPITUDE A FORMER DES FILMS  
(Polucheniye Privitykh Sopolimerov na Osnove Nitro-sellyulozy i issledovaniye Ikh Plenkoobrazuyushchikh Svoystv)(Preparation of Graft Copolymers of Nitrocellulose and Investigation of their Film Forming Properties). 19p. (foreign text included) 12refs.  
CNRS-VI 568.  
Order from OIS, ETC or CNRS \$1.60 TT-62-28700

Trans. in French of *Litokrasnoyehye Materialy i ikh Primeneniye* (USSR) 1960, no.4, p.6-10.

DESCRIPTORS: Copolymerization, \*Nitrocellulose, Acrylic resins, Mechanical properties, Films.

(Materials--Films, TT, v. 11, no. 9)

TT-62-28700

- I. Raskin, Ya.I.
- II. Livshits, R.M.
- III. Berlin, A.A.
- IV. CNRS-VI 568
- V. Centre National de la Recherche Scientifique, Paris

Office of Technical Services  
European Translation Centre

DD

Change of Solid Particles and Drops in an  
Electric Field, by Ye. V. Moiseyev, 7 pp.

RUSSIAN, per, Lakokrasochnyye Materialy i Ikh  
Primeneniye, No 5, 1960, pp 55-57. 9668540

\*FTD-TT-62-1830

Sci - Phys  
Dec 62

Thixotropic Alkyd. Resins. I. Synthesis of the  
Polyamides Which Structuralise the Alkyd Resins,  
by L. E. Ostrounova, T. A. Amphitheatrova. 20 pp.  
RUSSIAN, per, Lakokrasochnye Materialy i Ikh  
Primenenie, No 1, 1961, pp 23-29.  
OTS TT 64-15900

Sci/Materials  
Jun 67

327,709

(SF-1879)

The Chief Scientific Research and Design  
Institute of the Lacquer and Paint Industry  
and its Experimental Plant, by V. M.  
Romonov, 5 pp.

RUSSIAN, per, Lakokrasochnyye Materialy i  
ikh Prim, No 2, 1961, pp 1-2.

JPRS 4824

USSR  
Econ  
Sep 61

166,528



Gorlovski, I. A. and others.  
TECHNOLOGY OF ULTRAMARINE PRODUCTION.  
Sep 62, 1700 words.  
Order from TTIS \$21.00

TTIS 4015  
*ATS-95161R*

Trans. of Lakkrasochnye Materialy i Ikh Primenenie  
(USSR) 1961, no. 3, p. 20-25.

DESCRIPTORS: \*Pigments, \*Bleaching agents, Pro-  
duction.

(Engineering--Chemical, TT, v. 9, no. 2)

62-34412  
(62-34227)

- I. Title: Ultramarine
- I. Gorlovski, I. A.
- II. TTIS-4015
- III. Translation and Technical Information Services (Gt. Brit.)
- IV. *ATS-95161R*

Office of Technical Services

Labutin, A. L., Kalinicheva, N. A. and others.  
NEW ORGANIC SOLVENTS AND THE POSSIBILITY  
OF THEIR APPLICATION IN THE PRODUCTION OF  
VARNISHES AND PAINTS. [1961].  
Order from TTIS \$9.00      TTIS-4006

Trans. of Lakkrasochhiye Materialy i Ikh Primenenie  
(USSR) 1961, no. 3, p. 25-26.

DESCRIPTORS: \*Varnishes, \*Paints, Production,  
Organic solvents, Isoprene, Synthesis, Butenes,  
Formaldehyde.

(Materials--Finishes, TT, v. 6, no. 8)

61-25078

- I. Labutin, A. L.
- II. Kalinicheva, N. A.
- III. TTIS-4006
- IV. Translation and Technical  
Information Services  
(Gt. Brit.)

55203

Office of Technical Services

Preparation of Thixotropic Paints and the  
Determination of Their Physical and Mech-  
anical Properties, by B. I. Ivanov, et al.

RUSSIAN, per, Lakokrasochnye Materialy  
Vol I, 1961, pp 28-33.

GB/96

Sci-Chem  
July 63

236,323

Replacement of Hydrolytic Alcohol by Synthetic  
Alcohol in the Production of Spirit Furniture  
Lacquers, by M. D. Bodnya, et al,

RUSSIAN, per, Lakokrasochmyye Materialy i Ikh  
Primeneniye, No 3, 1961, pp 65-66.

TTIS-4012

Sci  
Mar 62  
Vol VII, No 3

188,078

62-12332

Plyplina, A. I. and others.  
PHOTOCHEMICAL DEGRADATION OF CELLULOSE  
NITRATE COATINGS. Pt. 3 on Effect of Stabilisers on  
the Stability of Cellulose Nitrate in Lacquers. 1961.  
1000 words.

Order from TTIS \$9.00

TTIS-4013

Trans. of Lakrasochnye Materialy i Ikh Primenenie  
(USSR) 1961, no. 4, p. 2-5.

DESCRIPTORS: \*Coatings, \*Cellulose nitrates, De-  
terioration, \*Varnishes, Paints, Stability.

- I. Plyplina, A. I.
- II. Title: Effect...
- III. TTIS-4013
- IV. Translation and Technical  
Information Services  
(Gt. Brit.)

(Materials - Paints, TT, v. 7, no. 6)

Office of Technical Services

Nikiforov I. N. and Kovalenko, V. M.  
NEW POLYURETHANE COATINGS FOR METALS.  
1971. 1100 words.  
Order from TTIS \$12.00      TTIS 4011

Trans. of Lakobrazobnye Materialy Ikh Pri-  
meneniya (USSR) 1961, no. 4, p. 13-15.

DESCRIPTORS: \*Metal coatings, Coatings, Urethanes,  
Metals, \*Polymers

(Materials--Finishes, TT, v. 1, no. 12)

61-25185

- I. Nikiforov, I. N.
- II. Kovalenko, V. M.
- III. TTIS-4011
- IV. Translation and Technical  
Information Services  
(Gt. Brit.)

Office of Technical Services

62-12331

Shishmareva, L. B. and others.  
DETERMINATION OF THE OPTIMUM PARAMETERS  
FOR THE FLOW-COATING PROCESS. 1961.  
1200 words.  
Order from TTIS \$12.00

TTIS-4015

Trans. of Lakokrasochnye Materialy i Ikh Primeneniye  
(USSR) 1961. no. 4, p. 30-34.

DESCRIPTORS: \*Coatings. Preparation

- I. Shishmareva, L. B.
- II. TTIS-4015
- III. Translation and Technical  
Information Services,  
(G. Brit.)

(Materials--Finishes, TT, v. 7, no. 8)

Office of Technical Services

TT-64-22550

Rivlina, Yu. L. and others.  
THE INVESTIGATION OF THE AGEING PROCESS IN  
ALKYD AND ALKYD-MELAMINE COATINGS. Jun 64.  
Order from TTIS \$21.00      TTIS NS 212

Trans. of Lakokrisochayn Materialy (ikh Primeneniye)  
(USSR) 1961, no. 6, p. 31-35.

- I. Rivlina, Yu. L.
- II. TTIS-NS-212
- III. Translation and  
Technical Information  
Services, London  
(England)

(Materials--Plastics, TT, v. 12, no. 7)

Office of Technical Services



Edlinskii, Z. and Filipka, N.  
A POLAROGRAPHIC METHOD FOR THE SIMUL-  
TANEOUS DETERMINATION OF DIVALENT AND  
TETRAVALENT LEAD IN RED LEAD. Aug 63.  
Order from TTIS \$12.00 TTIS NS 118

Trans. of Izokrasochnye Materialy i ikh Primeneniye  
(USSR) 1961, no. 6, p. 52-55.

DESCRIPTORS: \*Polarographic analysis, \*Lead, Lead  
compounds, Paint primers, Corrosion inhibition.

(Materials--Paints, TT, v. 10, no. 10)

63-22266

- I. Edlinskii, Z.
- II. Filipka, N.
- III. TTIS NS-118
- IV. Translation and  
Technical Information  
Services (Gt. Brit.)

Office of Technical Services

62-34410

Ratnikova, K. I.  
SYNTHESIS OF HYDROCARBON-FORMALDEHYDE  
POLYMERS AND THEIR USE IN SURFACE COAT-  
INGS. Sep 62, 2000 words.  
Order from TTIS \$18.00                      TTIS 4016

Trans. of Lakokrasochnye Materialy i Ikh Primenenie  
(USSR) 1962, no. 1, p. 17-20.

DESCRIPTORS: Polymers, \*Plastic coatings,  
\*Formaldehyde, Hydrocarbons, Xylenes, Naphthalenes,  
Naphtha, Catalysts, Sulfuric acids.

I. Ratnikova, K. I.  
II. TTIS-4016  
III. Translation and Technical  
Information Services  
(Gt. Brit.)

Office of Technical Services

(Materials--Plastics, TT, v. 9, no. 2)

Gubenski, V. A. and Serebryankov, S. N.  
THE ELECTROSTATIC SPRAYING OF BENTWOOD  
CHAIRS. May 63, 3000 words.  
Order from TTIS \$27.00 TTIS NS 70

Trans. of Lakokrasochnoye Materialy i ikh Primeneniye  
(USSR) 1962, no. 1, p. 44-49.

DESCRIPTORS: \*Paints, \*Sprays, \*Furniture,  
Electrostatics.

(Materials--Paints, TT, v. 10, no. 2)

63-17380

- I. Title: Electrostatic spraying
- I. Gubenski, V. A.
- II. Serebryankov, S. N.
- III. TTIS-NS-70
- IV. Translation and Technical Information Services, (Gt. Brit.)

Office of Technical Services

Freidin, M. M.  
THE EFFECT OF THE HIGH-VOLTAGE CURRENT  
SUPPLY SOURCES ON THE ELECTROSTATIC  
SPRAYING OF PAINTS. May 63, 1100 words.  
Order from TTIS \$12.00 TTIS NS 69

Trans. of Lakkrasochaya Materialy i ikh Primeneniye  
(USSR) 1962, no. 1, p. 54-56.

DESCRIPTORS: \*Electric potential, Electric currents,  
\*Electric power production, \*Sprays, Electrostatics,  
Paints.

(Materials--Paints, TT, v. 10, no. 2)

63-17379

- I. Title: Electrostatic spraying
- I. Freidin, M. M.
- II. TTIS-NS-69
- III. Translation and Technical Information Services, (Gt. Brit.)

Office of Technical Services

Investigation of Mixtures in Diphenylolpropane, by  
A. S. Salova, 5 pp.

RUSSIAN, per, Lakorkrasochnye Materialy i Ikh Primenenie,  
No 1, 1962, pp 71-72.

CIA/FDD XX-1421  
No Foreign Dissem

Sci - Biol & Med Sci  
Sept 63  
USIB Internal Use Only

344,101

63-12100

Blagonravova, A. A. and others.  
PREPARATION OF GRAFT COPOLYMERS BASED ON  
CELLULOSE ESTERS AND ISOCYANATES. 14 Nov 62.  
1750 words.  
Order from TTIS TTIS 4019

Trans. of Lakkrasachnye Materialy i Ikh Primenenie  
(USSR) 1962, no. 2, p. 4-7.

DESCRIPTORS: \*Cellulose esters. \*Isocyanates.  
Polymers. Preparation. Copolymerization.

- I. Title: Graft copolymers
- I. Blagonravova, A. A.
- II. TTIS-4019
- III. Translations and Technical  
Information Services  
(Gt. Brit.)

(Chemistry--Organic, TT, v. 9, no. 2)

Office of Technical Services

ANTI-CORROSION PROTECTION OF MOBILE TANKS FOR  
PETROLEUM PRODUCTS, BY M. V. LYKOV, I. D.  
INOZEMTSEV, ET AL, 14 PP.

RUSSIAN, PER, LAKOKREMASHOCHNYE MATERIALY I IKH  
PRIMENENIYE, NO 2, 1962, PP 34-40.

JPRS 17742

SCI - FUELS

MAR 63

223,841

Okhrimenko, I. S. and Kolin, V. L.  
THE USE OF THE PMT-3 APPARATUS FOR EVALUA-  
TION OF HARDNESS AND INVESTIGATION OF THE  
HARDENING PROCESSES OF ORGANIC COATINGS.  
13p. 14 refs. DTC-15.  
Order from OTS, ETC or DTC \$1.10      62-29004

Trans. of Lakokrasochnye Materialy i Ikh Primenenie  
(USSR) 1962, no. 2, p. 48-52.

DESCRIPTORS: \*Organic coatings, \*Hardness,  
Hardening, Experimental data, Vacuum apparatus.

(Materials, TT, v. 10, no. 2)

62-29004

- I. Okhrimenko, I. S.
- II. Kolin, V. L.
- III. DTC-15
- IV. Danish Translations  
Centre, Roskilde

Office of Technical Services





62-34400

Balbaeva, S. T., Smilga, Kh. V., and Tomilova,  
N. D.

DETERMINATION OF METHYLOL GROUPS AND  
FORMALDEHYDE IN PHENOL-AND CRESOL-  
FORMALDEHYDE RESINS. Oct 62, 1000 words.  
Order from TTIS \$10.00 TTIS-4025

Trans. of Lakkrasochnye Materialy [I kh Primenenie]  
(USSR) 1962, no. 2, p. 52-54.

DESCRIPTORS: \*Phenol-formaldehyde resins,  
Creosote, Methyl radicals, Formaldehyde,  
Determination, Resins.

(Materials--Plastics, TT, v. 9, no. 2)

- I. Balbaeva, S. T.
- II. Smilga, Kh. V.
- III. Tomilova, N. D.
- IV. TTIS-4025
- V. Translation and Technical  
Information Services  
(Gt. Brit.)

Office of Technical Services

GRANULATED PIGMENTS FOR THE PAINT INDUSTRY.  
May 63, 2800 words;  
Order from TTIS \$24.00

TTIS NS 72

Trans. of Lakokrasochnye Materialy i Ikh Primeneniye  
(USSR) 1962, no. 3, p. 32-34.

DESCRIPTORS: \*Pigments, Particles, \*Paints,  
Industries.

(Materials--Paints, TT, v. 10, no. 2)

63-17382

- I. TTIS-NS-72
- II. Translation and Technical  
Information Services,  
(Gt. Brit.)

Office of Technical Services

Synthetic Resin Base Waterproof Coatings by P.M. Fadeyev,  
\* I. G. Zhigan, et al.

RUSSIAN, per, Lakokrasochnyye Materialy I Ikh  
Primeneniye, No 3, 1962, pp 50-51.

*65-239*  
\*FTD-MT-64-46

Sci M/M

Jan 64

63-17006

Shmeleva, V. A. and others.  
THE LEACHING OF EPOXY COATINGS BY WINE IN  
STORAGE CONTAINERS. 27 Feb 63, 1000 words,  
9 refs.

Order from TTIS \$9.00

TTIS-4027

Trans. of Lakkrasochnye Materialy i ikh Primeneniya  
(USSR) 1962, no. 5, p. 50-52.

DESCRIPTORS: \*Epoxides, \*Coatings, \*Wines, Storage,  
\*Containers.

(Chemistry--Analytical, TT, v. 9, no. 10)

- I. Shmeleva, V. A.
- II. TTIS-4027
- III. Translation and Technical Information Services  
(Gt. Brit.)

Office of Technical Services

63-20489

Omel'chenko, S. I., Videnina, N. G., Belaya, E. S.,  
Linko, S. V., and Kovanko, S. K.

PREPARATION OF EPOXY RESINS BY DIRECT EPOXI-  
DATION OF UNSATURATED POLYMERS AND THEIR  
USE AS FILMFORMING MATERIAL. [1963] 10p (figs

omitted) 14refs

Order from OTS or SLA \$1.10

63-20489

Trans. of Lakokraschaya Materialy [Ikh Primechenie]  
(USSR) 1962, no. 6, p. 15-19.

DESCRIPTORS: \*Epoxy plastics, Polymers, Rubber,  
Acetic acids, Chemical reactions, \*Plastic coatings,  
Films, Varnishes, Hardness, Elasticity, Fracture  
(Mechanics), Adhesion

The possibility was established of epoxidation of high  
molecular caoutchoucs of grade SKB, SMD, and SKS-  
30A with peracetic acid, separated in the process of re-  
action. There was shown the optimal conditions for  
(Materials--Plastics, TT, v. 10, no. 12) (over)

- I. Title: Peracetic acids
- I. Omel'chenko, S. I.
- II. Videnina, N. G.
- III. Belaya, E. S.
- IV. Linko, S. V.
- V. Kovanko, S. K.

Office of Technical Services

63-17821

Ermolaeva, T. A. and others.  
THE EFFECT OF MODIFYING RUTILE TITANIUM  
DIOXIDE ON ITS WETTABILITY WITH LINSEED  
OIL AND WATER. [1963]  
Order from TTIS \$18.00                      TTIS NS-103

Trans. of Lakkrasochnye Materialy [IkhPrimenenie]  
(USSR) 1962, no. 6, p. 20-23.

DESCRIPTORS: \*Titanium compounds, \*Dioxides,  
\*Linseed oil, Water, Surface properties, Paints.

- I. Ermolaeva, T. A.
- II. TTIS-NS-103
- III. Translation and  
    Technical Information  
    Services (G. Brit.)

(Materials--Paints, TT, v. 10, no. 6)

Office of Technical Services

63-17822

Bobyrenkyo, Yu. Ya. and others.  
A RAPID METHOD FOR THE DETERMINATION OF  
THE DISPERSION COMPOSITION OF THE TITANIUM  
DIOXIDE PIGMENT. [1963].  
Order from TTIS \$12.00                      TTIS NS-104

- I. Bobyrenkyo, Yu. Ya.
- II. TTIS-NS-104
- III. Translation and  
    Technical Services  
    (Gt. Brit.)

Trans. of Lakkrasochnye Materialy [I kh Primeneniye]  
(USSR) 1962, no. 6, p. 52-53.

DESCRIPTORS: \*Titanium compounds, \*Dioxides,  
\*Pigments, Distribution, Paints.

(Materials--Paints, TT, v. 10, no. 6)

Office of Technical Services



63-17823

Malevynnyi, V. A.  
THE COLORIMETRIC DETERMINATION OF THE  
ALUMINIUM CONTENT IN THE TITANIUM  
DIOXIDE PIGMENT. [1963].  
Order from TTIS \$15.00      TTIS NS-106

I. Malevynnyi, V. A.  
II. TTIS-NS-106  
III. Translation and Technical  
Services (Gt. Brit.)

Trans. of ~~Lakrasochnye Materialy~~ [Ikh Primenenie]  
(USSR) 1962, no. 6, p. 54-56.

DESCRIPTORS: \*Colorimetric analysis, \*Aluminum,  
\*Titanium compounds, \*Dioxides, Pigments, Paints.

(Materials--Paints, TT, v. 10, no. 6)

Office of Technical Services

63-22765

Pamfilov, A. V. and others.  
RELATION BETWEEN THE PHOTOCATLYTIC AC-  
TIVITY OF ZINC OXIDE AND TITANIUM DIOXIDE  
AND DEGRADATION OF FILMS CONTAINING THESE  
PIGMENTS. Sep 63.

Order from TTIS \$12.00

TTIS NS 129

- I. Pamfilov, A. V.
- II. TTIS NS-129
- III. Translation and Technical  
Information Services  
(G. Brit.)

Trans. of Lakokrasochnye Materialy i Ikh Primenenie  
(USSR) 1963, no. 7, pp. 20-21.

DESCRIPTORS: \*Pigments, \*Films, Degradation, Dio-  
xides, \*Titanium compounds, Oxides, \*Zinc compounds,  
Photochemistry, Catalysis

(Materials--Finishes, TT, v. 10, no. 12)

Office of Technical Services

G. G. Gornozova, V. G. and others.  
STUDY OF THE PROPERTIES OF SEED SOLS AND  
TITANIUM HYDROXIDE OBTAINED BY THE SUL-  
PHURIC ACID METHOD. Mar 64  
Order from TTIS \$14.00                      TTIS NS 178

Trans. of *Lakobrasochyay Mat(erialy i Ikh Primeneniye)*  
(USSR) 1963, no. 1, p. 26-30.

(Materials--Paints, TT, v. 11, no. 11)

TT-64-12811

I. Gornozova, V. G.  
II. TTIS NS-178  
III. Translation and Technical  
Information Services,  
London (England)

Office of Technical Services

Chapeev, M. A. and Trapeznikov, A. A.  
EFFECT OF FILM-FORMERS AS SURFACE ACTIVE  
AGENTS IN PIGMENT GRINDING PROCESSES. Mar 64  
Order from TTIS \$12.00      TTIS NS 179

Trans. of Lakokrasochivye Materialy i Ikh Primeneniye  
(USSR) 1963, no. 1, p. 30-33.

TT-64-12812

- I. Chapeev, M. A.
- II. Trapeznikov, A. A.
- III. TTIS-NS-179
- IV. Translation and Technical  
Information Services,  
London (England)

(Materials--Paints, TT, v. 11, no. 11)

Office of Technical Services

Eermolaeva, T. A. [Abramson, D. L., and  
Anufrieva, N. S.].  
MODIFICATION OF ANATASE TITANIUM DIOXIDE  
IN ORDER TO IMPROVE ITS PHYSICO-TECHNICAL  
PROPERTIES. Mar 64  
Order from TTIS \$9.00                      TTIS NS 180  
Trans. of *Labokrasochnye Materialy i Ich Primenenie*  
(USSR) 1963, no. 1, p. 36-38.

(Materials--Paints, TT, v. 11, no. 11)

TT-64-12313

- I. Eermolaeva, T. A.
- II. Abramson, D. L.
- III. Anufrieva, N. S.
- IV. TTIS-NS-180
- V. Translation and Technical  
Information Services,  
London (England)

Office of Technical Services

TT-64-12528

Zhuchkova, N. K. and others.  
PROTECTING WATER PURIFICATION FILTERS  
AGAINST CORROSION BY MEANS OF PAINT. [1964]  
Order from TTIS \$8.00                      TTIS NS 166

Trans. of *Lakokrasochnye Materialy i Ikh Primeneniye*  
(USSR) 1965, no. 1, p. 42-43.

DESCRIPTORS: Water, Purification, \*Water filters,  
\*Corrosion inhibition, Paints, \*Protective treatments.

- I. Zhuchkova, N. K.
- II. TTIS-NS-166
- III. Translation and  
Technical Information  
Services, London  
(England)

(Metallurgy--Corrosion, TT, v. 11, no. 8)

Office of Technical Services

63-22764

Kutyain, G. I.  
STUDY OF THE AGEING OF PAINT COATINGS BY  
MEASURING THEIR OHMIC RESISTANCE, Sep 63.  
Order from TTIS \$15.00      TTIS NS 128

Trans. of Lakokrasochnye Materialy i Ikh Premeneniye]  
(USSR) 1963, no. 1, p. 52-54.

DESCRIPTORS: Resistance (Electrical), Measuring  
devices (Electrical and electronic), \*Coatings, \*Paints,  
Aging (Materials)

(Materials--Finishes, TT, v. 10, no. 12)

I. Kutyain, G. I.  
II. TTIS NS-128  
III. Translation and Technical  
Information Services  
(Gt. Brit.)

Office of Technical Services

Gurevich, T. N. and others.  
**THE PHOTOCHEMICAL ACTIVITY OF PIGMENTS  
AND METHODS OF ITS DETERMINATION.** Sep 63.  
Order from TTIS \$12.00      TTIS NS 130

Trans. of *Lakrasochnye Materialy i Ikh Primeneniye*  
(USSR) 1963, no. 1, p. 55-57.

DESCRIPTORS: \*Pigments, \*Photochemistry, Chemical  
analysis

(Materials--Finishes, TT, v. 10, no. 12)

63-2766

- I. Gurevich, T. N.
- II. TTIS NS-130
- III. Translation and Technical  
Information Services  
(G. Brit.)

Office of Technical Services



Korzhev, A. S. and Zarubtakil, A. E.  
BITUMEN- AND SHALE OIL-FORMALDEHYDE  
RESIN EMULSION PAINTS. Aug 63.  
Order from TTIS \$4.50

TTIS NS 113

Trans. of Lakokrasochnye Materiyaly i Ekh Primeneniye  
(USSR) 1963, no. 1, p. 70-71.

DESCRIPTORS: \*Bituminous coatings, Shales, \*Oils,  
\*Formaldehyde, \*Plastic paints, Colloids, Paints,  
Bitumens.

(Materials--Paints, TT, v. 10, no. 10)

63-22265

- I. Korzhev, A. S.
- II. Zarubtakil, A. E.
- III. TTIS NS-113
- IV. Translation and  
Technical Information  
Services (Gt. Brit.)

Office of Technical Services

Bodnya, M. D. and Osovetskii, M. A.  
THE POSSIBILITIES OF USING BITUMEN IN SOLUTION FORM FOR THE MANUFACTURE OF BLACK VARNISHES, Aug 63.  
Order from TTIS \$3.60                      TTIS NS 112

Trans. of Lakokrasochnye Materialy i Ikh Primenenie  
(USSR) 1963, no. 1, p. 71-72.

DESCRIPTORS: \*Bituminous coatings, \*Varnishes, Solutions.

(Materials--Paints, TT, v. 10, no. 10)

63-22264

- I. Bodnya, M. D.
- II. Osovetskii, M. A.
- III. TTIS NS-112
- IV. Translation and Technical Information Service (Gt. Brit.)

Office of Technical Services

63-17824

Labutin, A. L.  
AN IMPROVED APPLICATOR FOR THE PREPARATION OF FILMS OF UNIFORM THICKNESS. [1963].  
Order from TTIS \$2.70      TTIS NS-107

Trans. of Lakokrasochnye Materialy [Ikh Primeneniye]  
(USSR) 1963, no. 1, p. 72.

DESCRIPTORS: \*Films, Preparation, Thickness,  
Paints.

(Materials--Paints, TT, v. 10, no. 6)

I. Labutin, A. L.  
II. TTIS-NS-107  
III. Translation and  
Technical Information  
Services (Gt. Brit.)

Office of Technical Services

Sorokin, M. F. and others.  
SOLVENTLESS EPOXY FINISHES, PT. I. Aug 63.  
Order from TTIS \$30.00 TTIS NS 121

Trans. of ~~Lakrasochnye Materialy i ikh Primenenie~~  
(USSR) 1963, no. 2, p. 1-5.

DESCRIPTORS: \*Epoxy plastics, \*Finishes and  
finishing, Plastic coatings.

(Materials--Finishes, TT, v. 10, no. 10)

63-22268

- I. Sorokin, M. F.
- II. TTIS NS-121
- III. Translation and  
Technical Information  
Services (Gt. Brit.)

Office of Technical Services

Korolev, G. V. and Mogilevich, M. M.  
INVESTIGATING THE FILM-FORMING ABILITY OF  
SOME POLYESTER ACRYLATES. Aug 63.  
Order from TTIS \$21.00 TTIS NS 120

Trans. of Lakokrasochnye Materialy i ikh Primenenie  
(USSR) 1963, no. 2, p. 12-16.

DESCRIPTORS: \*Polyester plastics, \*Acrylic resins,  
\*Films, Plastic coatings.

(Materials--Finishes, TT, v. 10, no. 10)

63-22267

- I. Korolev, G. V.
- II. Mogilevich, M. M.
- III. TTIS NS-120
- IV. Translation and  
Technical Information  
Services (Gr. Brit.)

Office of Technical Services

68-22307

Rasoudova, N. S. and others.  
SYNTHESIS AND INVESTIGATION OF PROPERTIES  
OF NICKEL, TITANATES AND MIXED TITANO-  
NICKEL PIGMENTS. Aug 63.  
Order from TTE \$21.00

TTE MS 1:12

Trans. of ~~Lakhtin~~ ~~Medvedev~~ ~~Kh. Primenen~~  
(USSR) 1963, no. 2, p. 25-29.

DESCRIPTORS: \*Synthesis (Chemistry), \*Nickel  
compounds, \*Titanates, \*Pigments, \*Titanium com-  
pounds, Mixtures.

(Materials-Plants, TT, v. 10, no. 10)

- I. Rasoudova, N. S.
- II. TTE MS-122
- III. Translation of  
Technical Information  
Services (O. Eric.)

Office of Technical Services

Synthesising Terephthalic Polyethers  
and Obtaining Electrically Insulated  
Impregnating Lacquers on the Basis  
Thereof, by R. S. Kholodorskaya, et al.  
RUSSIAN, per, Lakokras. Mator. Ikh. Prim.,  
No 3, 1963, pp 12-16.  
NLL Ref: 9022.84B 1966 (1274)

Sci-Chem  
Aug 66

308,732

Daich, A. R.  
THE DETERMINATION OF THE COVERING POWER  
OF WHITE PIGMENTS. 1963, 1400 words  
Order from TTIS \$15.00      TTIS NS 156

Trans. of *Labokrasochyve-Materialy i Ikh Primeneniye*  
(USSR) 1963, no. 3, p. 58-60.

DESCRIPTORS: \*Pigments, Colors, \*Finishes and  
finishing, Effectiveness.

(Materials--Finishes, TT, v. 11, no. 10)

TT-64-12260

- I. Daich, A. R.
- II. TTIS-NS-156
- III. Translation and  
Technical Information  
Services, London  
(England)

Office of Technical Services



TT-64-12527

Chupeev, M. A.  
USE OF SURFACE ACTIVE AGENTS IN THE  
GRINDING OF CARBON BLACKS WITH ALKYD  
MEDIA. [1964]

Order from TTIS \$4.00

TTIS NS 167

Trans. of Lukokrubchnye Materialy i ikh Primeneniye  
(USSR) 1963, no. 3, p. 77-78.

DESCRIPTORS: \*Surface-active substances, \*Carbon  
black, Grinders.

I. Chupeev, M. A.  
II. TTIS-NS-167  
III. Translation and  
Technical Information  
Services, London  
(England)

Office of Technical Services

(Materials, TT, v. 11, no. 8)

Sorokin, M. F. and Khinchina, E. L.  
SYNTHESIS OF COPOLYMERS OF ALLYL GLYCIDYL  
ETHER WITH BUTYL METHACRYLATE. Mar 64.  
Order from TTIS \$27.00      TTIS NS-181

Trans. of *Lakhsraochayye Mat[erialy i Ikh Primeneniye]*  
(USSR) 1963, no. 4, p. 5-10.

(Materials--Paints, TT, v. 11, no. 11)

TT-64-12814

- I. Sorokin, M. F.
- II. Khinchina, E. L.
- III. TTIS-NS-181
- IV. Translation and Technical  
Information Services,  
London (England)

Office of Technical Services

Sorokin, M. F. and Kochnov, L. M.  
SYNTHESIS OF COPOLYMERS OF GLYCIDYL METHA-  
CRYLATE AND STYRENE IN SOLVENTS AND THE  
PREPARATION OF COATINGS BASED ON THEM

Mar 64  
Order from TTIS \$18.00

TTIS NS 182

Trans. of Lakrasochnye Materialy i ikh Primeneniye  
(USSR) 1963, no. 4, p. 10-15.

(Materials--Paints, TT, v. 11, no. 11)

TT-64-12815

- I. Sorokin, M. F.
- II. Kochnov, L. M.
- III. TTIS-NS-182
- IV. Translation and Technical  
Information Services,  
London (England)

Office of Technical Services

Ermilov, P. I.  
ON THE WETTING OF PIGMENTS. [1964]  
Order from TTIS \$21.00      TTIS NS 168

Trans. of Lakokrasochnye Materialy i ikh Primeneniye  
(USSR) 1963, no. 4, p. 23-26.

DESCRIPTORS: \*Pigments, \*Surface-active  
substances.

(Materials--Paints, TT, v. 11, no. 8)

TT-64-12526

I. Ermilov, P. I.  
II. TTIS-NS-168  
III. Translation and  
Technical Information  
Services, London  
(England)

Office of Technical Services

Bobyrenko, Yu. Ya.  
THE VARIATION OF THE COVERING POWER OF  
PIGMENTS WITH THEIR REFRACTIVE INDEX AND  
PARTICLE SIZE. [1964]  
Order from TTIS \$9.00

TTIS NS 169

Trans. of Lakokrasochnye Materialy i Ikh Primeneniye  
(USSR) 1963, no. 4, p. 51-52.

DESCRIPTORS: \*Pigments, Particle size, Refractive  
index.

(Materials--Paints, TT, v. 11, no. 8)

TT-64-12513

- I. Bobyrenko, Yu. Ya.
- II. TTIS-NS-169
- III. Translation and  
Technical Information  
Services, London  
(England)

Office of Technical Services

Lekakh, N. B. and Galinker [I] S.  
THE PROBLEM OF THE NATURE OF TITANYL SUL-  
PHATE SOLUTIONS Mar 64  
Order from TTIS \$18.00 TTIS NS 183

Trans. of Labokrasochnye Materialy i Ikh Primenenie  
(USSR) 1963, no. 5, p. 24-26.

(Materials - Polym., TT, v. 11, no. 11)

TT-64-12816

- I. Lekakh, N. B.
- II. Galinker, I. S.
- III. TTIS-NS-183
- IV. Translation and Technical  
Information Services,  
London (England)

Office of Technical Services

Kashevarova, Yu. A. and Vanyushkina, V. I.  
A RAPID METHOD FOR THE QUANTITATIVE DE-  
TERMINATION OF HYDROQUINONE IN POLYESTER-  
ACRYLATES. [Apr 64]  
Order from TTIS \$7.00

TTIS NS 189

Trans. of Lakkrasochnye Mater[ialy i Ikh Primeneniye]  
(USSR) 1963, no. 5, p. 47.

(Chemistry--Analytical, TT. v. 12, no. 2)

TT-64-22015

- I. Kashevarova, Yu. A.
- II. Vanyushkina, V. I.
- III. TTIS-NS-189
- IV. Translation and Technical  
Information Services,  
London (England)

Office of Technical Services

TT-64-1259

Dolmatov, Yu. D.  
USE OF THE TURBIDIMETRIC METHOD FOR THE  
DISPERSION ANALYSIS OF TITANIUM DIOXIDE.  
1963, 1400 words  
Order from TTIS \$15.00      TTIS NS 155

Trans. of Likoltrazoshnye Materialy i ikh Primeneniye  
(USSR) 1963, no. 5, p. 52-55.

DESCRIPTORS: \*Dioxides, \*Titanium compounds,  
Optical analysis, Colloids, Quantitative analysis.

(Chemistry--Analytical, TT, v. 11, no. 10)

- I. Title: Turbidimetric method
- I. Dolmatov, Yu. D.
- II. TTIS-NS-155
- III. Translations and Technical Information Services, London (England)

Office of Technical Services



TT-64-22552

Kravets, V. P. and Chervenyuk, G. I.  
CONDENSATION RESINS OBTAINED FROM ALI-  
PHATIC AROMATIC KETONES AND FORMALDEHYDE  
[in 64]

Order from TTIS 411.00

TTIS NS 214

Trans. of Akademiya Materialy (Ikh Primeneniye)  
(USSR) 1968, no. 5, p. 4-7.

I. Kravets, V. P.  
II. Chervenyuk, G. I.  
III. TTIS-NS-214  
IV. Translation and  
Technical Information  
Services, London  
(England)

(Materials--Plastics, TT, v. 12, no. 7)

Synthesis of Anticorrosion Pigment-Chromium  
Phosphate, M. A. Shtern, N. Ye Danyushevskaya,  
et al, 7 pp.

RUSSIAN, per, Lakokrasochnyye Materialy i ikh  
Primeneniye, No 1, 1964, pp 32-34. 9697368  
FTD-11-65-55

Sci-B & M  
Jul 65

263,564

The Influence of the Dimension Factor  
on the Durability of Polymeric Coatings,  
by M. S. Dylov, et al.

RUSSIAN, per, Lakokrasochnye Materialy  
i Ikh Primeneniye No 1, 1964, pp 35-39.

TTIS NS 234

Apr 67

323,144

TT-64-22553

IMPROVEMENT OF THE TECHNOLOGY OF THE  
PRODUCTION OF ZINC OXIDE FROM METALLIC  
ZINC IN ROTARY FURNACES. Jun 64.  
Order from TTIS 316 00

TTIS NS 215

Trans. of Izdatkrazmetkhoz (Materials of the  
USSR) 1964, no. 1, p. 64-71.

- I. Larin, M. I.
- II. Nikiforov, I. N.
- III. TTIS-NS-215
- IV. Translation and  
Technical Information  
Services, London  
(England)

Metallurgiya (Metallurgy), TT, v. 12, no. 7)

Office of Technical Services

Chemical Method of Determining Fumaric and Maleic  
Acids in Polyester Resins and Paints, by Ye. L  
Aharina, S. T. Baybayeva.  
RUSSIAN, per, Lakokrasochnye Materialy, No 2, 1964,  
pp 5-54  
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Sci -  
Aug 67

336,502

The Production on a Vinyl Acetate-Buryl  
Acrylate Copolymer Suitable for the  
Manufacture of Emulsion Paints, by  
I. S. Avetisyan, et al.

RUSSIAN, PER, Lakokrasochnye Materialy  
i Ikh Primenenie No 2, 1964, p 13-15.

TTIS NS 235

Apr 67

323 143

The Influence of Metal Oxides on the  
Polymorphic Transformation of Anatase  
to Rutile, by G. V. Kleshchev,  
RUSSIAN, per, Lakokrasochnye-Materialy i  
Ikh Primenenie, 1964, No 2, pp 21-23  
CFSTI TTIS NS 226

323,274

Sci - Earth Sciences  
Apr 67

Interactions Between Cationic Surfactants  
and Rutile Titanium Dioxide, by T. A.  
Ermolaeva,  
RUSSIAN, per, Lakokrasochnye Materialy  
i Ikh Primenenie, 1964, No 2, pp 23-26.  
CFSTI TTIS NS 227

323,272

Sci - Earth Sciences  
Apr 67



Production and Application of Cyclic Isomers  
of Polyisoprene, by V. V. Markov,  
I. A. Tutorakiy.  
RUSSIAN, per, Iakok Mat i kh Prim, No 5,  
1964, pp 19-23.  
NLL Ref: 9022.49 (16)

Sci-Chem  
Oct 69

395,106

Protection of Steel and Light Alloys with  
Polyvinyl Butyral Phosphatizing Primers  
VI-023, by G. Ya. Terlo, 7 pp.  
RUSSIAN, per, Lakokrasochnye Material i ikh  
Primen. No 5, 1964, pp 33-36. 9699846  
Dept of Navy/ONI Tr No 2060

Sci - M/M  
Mar 60

296,540

Use of Anti-Corrosion and Anti-Fouling  
Paints Based on Coal Tar and its Mixtures  
with Phenol or Epoxy Resins . pp.5.  
by Ye.D. Izral'yants, A.K.Murontsev  
RUSSIAN, per. Lakokrasochnye Materialy i ikh  
Primeneniye. No. 5, 1964, pp.44-46. 9699997  
Dept of Navy, ONI Tr No. 2057

TR-4569

M & M  
Sci.  
Apr 66

Electrical Conductivity of Dry Lacquer/Paint  
Films and the Potentials Generated on Films  
Coated in an Electric Field, by M. M. Freidin.  
RUSSIAN, per, Lakokrasochnye Materialy i ikh  
Primeneniye, No 6, 1964, pp 26-31.  
NYC-69-16437-07D

Sci-Chem  
Feb 70

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Rapid Methods of Testing Antifouling Paints  
for Ocean-Going Ships, by V. N. Glotov, 11 pp.  
RUSSIAN, per, Lakakrasochnye Material i ikh  
Primen, No 6, 1964, pp 53-56. 9699849  
Dept of Navy/ONI Tr No 2059

Sci - Phys, Eng  
Mar 66

296,526

Laminar Boundary Layer, by L. G. Loytsyanskiy,  
567 pp.  
RUSSIAN, bk. Laminarnyy Pogranichnyy Sloy, Moscow,  
1962, pp 1-479. 9693083-V  
FTD-TT-63-749

Sci - Eng Phys  
Jul 64

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Traveling-Wave Tube, by M. N. Tseytlin,  
228 pp.  
RUSSIAN, bk, Laura S. Mezushchey Volnov,  
1964, pp 1-311.  
F100029368-V  
FTD-MT-65-453

Sci-Physics  
Feb 68

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T of C and Review of  
Vacuum Tube Oscillators for High-Frequency  
Heating, by A. S. Vasil'yev, 5 pp.

RUSSIAN, BK, Lampovyye Generatory Dlya Vyso-  
kochastotnogo Nagreva, Moscow, 1957, 60 pp.

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Head, Lib Sv Sec  
Air Info Div  
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Cold-Cathode Tubes by L. N. Karablev, 233 pp.

RUSSIAN, bk, Lampy S Kholodnym Katodom, Moscow,  
1961, pp 3-175. 9689303-V

FTD-TT-63-422

Sci-Elec  
Nov 63

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Low-Power Backward-Wave Tubes, by Yu. G.  
Al'tshuler and A. S. Tatarenko, 231 pp.  
RUSSIAN, bk, Langy Maloy Moshchnosti s  
Obrazoy Valnyy, 1963, pp 1-296.  
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FTD-MT-65-273.

Sci-Physics  
Feb 68

347,491

58-D

A Diamond Crystal in Kimberlite of "Udachnaya" Pipe,  
by L. A. Pokrysheva, E. Shafrenitskiy, 4 pp.

RUSSIAN, per, Zapiski Vsesoyuznogo Mineral-  
ogicheskogo Obshchestva, Second Series, Part 87,  
N 1, 1958, pp 494-496.

US JPRS Tr I-1302-D

Sci - Minerals, Metals  
Jan 59

78,318

Reflections on the Anniversary of the Revolution,  
by Istvan Hornody, 8 pp. UNCLASSIFIED

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Sep-Oct 1957, Munich, pp 251-256.

US JPRS/DC-L-73

EE - Hungary  
Pol  
Mar 58

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Forced Vibrations of a System With one Degree  
of Freedom in the Presence of Dry Friction and  
With an Operating Arbitrary Exciting Force, by  
A. M. Strekis, 37 pp. 9093487

LATVIAN, per, Latvijas PSR Zinatnu Ak Tehnisko  
Zinatnu Nodala Sbornik Statei, No 4, 1956, pp 95-121.

AEC SCL-#-332

Sci - Phys  
9 Mar 61

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Lithium Tetraborate, by H. Goda, 10 pp.  
LATVIAN, per, Latvian SSR Zinatnu Akademijas  
Vestis, Vol XX, No 3, 1949, pp 91-96. 9222963  
AEC-AWRE-TY-43

*ALL 9091, 9 1964 (aw RE 43)*

Sci-Mar & Met  
Aug 64

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Colloid-Chemical Phenomena on the Surface of Metals  
and Retardation of Corrosion in Salt Solutions.  
Part VII. Chemical and Phase Composition of Iron  
Corrosion Products in Solutions of Alkali Chlorides  
and Alkali-Earth Metals, by L. Lepin', Z. Oshis.

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Sci - Chem

53, 539

Oct 57

Mechanism of Bonding in the Cold Welding of  
Metals, by S. B. Ainbinder, E. F. Klokova

RUSSIAN, per, Latvijas PSR Zinatnu Akademijas  
Vestis, No 10(87), 1954, pp 113-128.

Brutcher Tr 3755  
\$9.90

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Sci - Min/Metals  
Sep 56 CTS



Nonmetallic Inclusions in Rimming Steel, by  
K. K. Heiland

LATVIAN, per, Latvijas PSR Zinatnu Akademijas  
Vestis, No 11, xk(88), 1954, pp 133-146.

Brutcher Tr 3766

Sci - Min/Metals      \$7.80      38,546  
Sep 56 CTS

Colloid- Chemical Phenomena on the Surface of Metals  
and Retardation of Corrosion in Salt Solutions.  
Part XIII. Chemical and Phase Composition of the  
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and Potassium Carbonate, by Z. Oshis, L. Lepin'.

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7 (96), 1955, pp 119-125.

Navy Tr 1533/ERL 63<sup>5</sup>/<sub>4</sub>

Sci - Chem

53, 540

Oct 57

Investigation of the Back-Scattering of Gamma-Radiation, by N. Dubinskaya, U. Ulmanis, 5 pp.

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RUSSIAN, per, Latvijas PSR Zinatnu Akademijas  
Vestis, No 7 (120), 1957, pp 147-150. 9678168

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Sci - Phys

Nov 62

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Short-wave Radiation Regime of a Surface Covered  
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LATVIAN, per Latvian PSR Zinatnu Akademijas  
Vestis, Vol 6, 1957, pp 41-60.  
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May 64

Determination of Solubility of Nitrofurans in  
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S. Hiller, 12 pp.

RUSSIAN, per, Latvian SSR Zin Akad Vestis, No 126,  
1958, pp 113-130.

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Sci - Physics  
Oct 63  
USIB Internal Use Only

345, 354

Behavior of the Integral Curves of a System of  
Differential Equations Near a Singular Point in  
a Space of More Than One Dimension, by  
HEK L. E. Reizin, 14 pp.

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Sci - Math

Aug 63

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Some Remarks on the Subject of the Nitration of 2-Furyl-  
 $\beta$ -Nitro-Ethylene, by S. A. Hiller, A. In. Zhurnal, 8 pp.

FUSSIAN, per, Latvijas PSR Zinatnu Akad Vestis, No 142,  
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Sept 63  
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Application of Furadonin for Inflammation in  
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Sci - Biol & Med Sci  
Sept 63



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S. Tinsley, 1959, p. 11-12.

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1959, pp 153-154.

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O. Veveris, 12 pp.

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Sci  
Sep 61

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of Charged Particles, by R. Peterkopis,  
10 pp.

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~~CHINESE~~, per, Latvian PER ~~Finatra~~  
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Sci - Phys  
Oct 62

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Organic Compounds. Report 1 Reduction of Furyl-  
Phenyl- and Thieryl Mercury Chlorides With Triethylsilane,  
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CIA/FID XX-1418  
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Sci - W/M  
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IV. Nitration of 3-2(furyl) Acrolein and  
Synthesis of Certain Unsaturated Furan Aldehydes  
and Ketones, by K. Venter, S. Hiller, 19 pp.

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No 166, 1961, pp 87-97.

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Sci - M/M  
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Concerning Certain Reactions of Ethylenimine  
II. Reaction of Ethylenimine With Furfural,  
Benzaldehyde, and Their Derivatives, by  
M. Lidak, S. Hiller, 15 pp.

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CIA/FID XI-1420  
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(SP-1878)

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Sci - Misc  
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