

Investigation of Structural ~~Defects~~ Defects in
Silicon Single Crystals Using the Photoconductivity
Method, by V. S. Vavilov, and A. P. Plotnikov,
p 700

RUSSIAN, per, Fiz Tverdogo Tela, Vol IV, No 12,
1962, pp. 3446-3454.

Amer Inst of Phys
Sov Phys - Solid State
Vol IV, No 12

Sci

63
Jun 1963

342.661

Contemporary Semiconductor Physics, by V. S.
Vavilov, 14 pp.

RUSSIAN, per, Uspekhi-Fiz Nauk, Vol LXIX, No 1,
1959, pp 149-156.

SLA 60-14079

Sci

OTS, Vol III, No 6

126,934

Sep 60

The Absorption of Free Charge Carriers by Infrared π
Radiation in Silicon, by V. S. Vavilov, 4 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol. II, No 2,
1960, pp 374-376.

AIP
Sov Phys-Solid State

Sci

Feb 61

138,541

The Effect of Fast-Electron Bombardment on the Electrical Conductivity of Silicon and the Dependence of the Rate of Defect Formation on the Orientation of a Crystal with the Dependence of the Rate of Defect Formation on the Orientation of a Crystal with Respect to the Electron Beam, by V. S. Vavilov, V. M. Patskevich, B. Ya. Yurkov, 3 pp

RUSSIAN, per, Fizika Tverdogo Tela, Vol II, No 7, 1960,
pp 1431-1433

1440, 209

ATP
Sov-Phys-Solid State
Vol II, No 7

Sci-

Radiative Recombination at Dislocations in
Germanium, by A. A. Gippius and V. S. Vavilov,
pp 6. 77.

RUSSIAN, per, Fiz Tverdogo Tela, Vol IV, No 9,
1962, pp 2426-2433.

Amer Inst of Phys
Sov Phys - Solid State
Vol IV, No 9

Sci

Jun 63

342,273

Radiative Recombination in Germanium Crystals
Bombarded by Fast Electrons, by V. S. Vavilov,
A. A. Gikpyus, M. M. Gorshkov, and B. D. Kopylovskiy,
3 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol XXXVII(10)
No. 2, 1960, pp 23-26.

AD 600 000

Amer Inst of Phys
Sov Phys - JETP

Sci

Feb 60

108,024

Semiconductors Converters of Radiation Energy, by
V. S. Vavilov, 34 pp.

RUSSIAN, per, Uspekhi Fiz, Nauk SSSR, Vol LVI, No. 1,
May 1955, pp 111-130.

SLA R-1000

Sci
May 58

67,988

Apparatus for Investigating Spectra and Kinetics
of Photoconduction in Semiconducting Crystals.
by A. F. Plotnikov, V. S. Vavilov, 4 pp.

RUSSIAN, per. Priory 1 Tekh Ekspert. No 3. 1962.
pp 183-186.

ISA

Sci

233, 522

Apr 63

Radiative Recombination in Semiconductors, by
V. S. Vavilov, 10 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol XXVIII, No 2,
1959, pp 247-.

AIP
Sov Phys-Uspekhi
Vol II (66), No 3

Sci

Nov 60

132, 178

Spectra and Kinetics of Photoconductivity Related to
Simple Structural Defects in Germanium Single Crystals,
by I. P. Akimchenko, V. S. Vavilov, 5 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 5, 1963,
pp 1417-1422.

Sci -
Nov 63

~~CB~~
Amer J Inst of Phys
Low Phys - Solid State
Vol V, No 5

241,750

Generation of Lattice Defects in Silicon Crystals as
a Result of Thermal Neutron Irradiation in a Nuclear
Reactor, by M. V. Chukichev, V. S. Vavilov, 3 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol. III, No 5,
1961, pp. 1522-1527.

AIP
Sov Phys - Solid State
Vol. III, No 5

Sci

Mar 62

189,117

On Reflection Coefficients of Germanium and Silicon
Crystals, by V. S. Vavilov, A. A. Gippius, M. M.
Gorshkov. UNCLASSIFIED

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVIII, No 2, 1958,
pp 254, 255.

MIT (Lincoln Lab)

Sci - Physics
May 58

63,502

The Effect of Fast Neutron Irradiation on the Recombination of Electrons and Holes in Germanium Crystals, by V. S. Vavilov, A. V. Spitsyna, L. S. Smirnov, M. V. Chukichev, 4 pp.

RUSSIAN, in per, Zhur Eksp. i Teoret. Fiz., Vol. XXII, No. 11, Nov. 1957, pp. 702-705.

AmerInst of Phys
Sov Phys-JEPP
Vol V, No 4

58,073

Sci - Physics
Jan 58

Results of the All-Union Helicopter Competitions;
To Improve the Skill of Flyers, by V. Vavilov,
4 pp. UNCL

RUSSIAN, np, Sov Patriot, Moscow, 2 Nov 1958, p 3.

AF 1258574

USSR

Mk Soc - sportsflying (helicopters)

Apr 59

84,840

On the Transformation of β -Particle Energies
to Electrical Energy in Germanium Crystals
with p-n Junctions, by B.M. Vul, V.S. Vavilov,
L.S. Smirnov, G.N. Galkin, V.M. Patskevich,
, 6 pp.

A. V. Spitsyn,
RUSSIAN, per, Atomnaya Energiya, Vol II,
No 6, 1957, pp. 533-537.

Consultants Bureau

Sci - Nuc Phys

Jun 58

65,057

?

The Photoionization Process in Silicon, by K. I. Brits
Britsyn, V. S. Vavilov, 3 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol VIII,
No 6, 1960.

Optical Sec of Amer

Sci

Oct 60

130,271

Investigation of Silicon Photocells as Converters
of Solar Radiation, by V. S. Vavilov, G. N.
Galkin, and V. M. Malovetskaya, 11 pp.

RUSSIAN, per, Atom Energiya, Vol 4, No 6, 1958,
pp 571-575. CIA 643665

F-TS-9845/V

Sci - Physics
Mar 59

83,159

Effects of Radiation on Semiconductors,
by V. S. Vavilov. pp 230

RUSSIAN, bk.

May 65

*CB

December 1964

*Plenum Press
1965*

Solar Batteries, by V. S. Vavilov, A. P. Landsman,
9 pp. UNCLASSIFIED

RUSSIAN, papers presented at Moscow Conference of
CSAGI, Moscow, 1-9 Aug 1958

US JPRS/DC-287

Sci - Geophys
Dec 58

JPLA1/TR 2

CIA 9044799

X-1644

Vavilov, V. S., Malovetskaya, V. M. and others.
SILICON-SOLAR BATTERIES AS SOURCES OF THE
ELECTRIC POWER SUPPLY OF ARTIFICIAL EARTH
SATELLITES. [1962] [13]p. 15 refs. [USASIA] Trans.
Log no. 1009.
Order from OTS or SLA \$1.60

62-32645

Trans. of Uspekhi Fizicheskikh Nauk (USSR) 1957, v. 63,
no. 1, p. 123-129.
Other translations are available from LC or SLA
ml\$1.80, ph\$1.80 as S9-16769 [1959] 9p.; ml\$2.40,
ph\$3.30 as S9-12656, API./JHU TG 230-T6, June 58, 13p;
ml\$2.40, ph\$3.30 as S9-10869 [1959] 15p.; and from
OTS \$6.50 as AEC-tr-3973, pt. I.

DESCRIPTORS: *Satellite vehicles, *Solar batteries,
*Silicon, *Electrical power production, Semiconductors,
Photoelectric cells, Electrical properties, Temperature.

For abstract see Technical Translations 2: 56, 1959.
(Engineering--Satellite Vehicles, TT, v. 9, no. 4)

62-32645

- I. Vavilov, V. S.
- II. Malovetskaya, V. M.
- III. USASIA Trans-1009
- IV. Army Signal Intelligence
Agency, Arlington, Va.

C227794

Office of Technical Services

Radiation Ionization Processes in Germanium and
Silicon Crystals, by V. S. Vavilov, 2 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXV, Sep/Oct 1961,
pp 263-276.

AIP
Sov Phys - Uspekhi
Vol IV, No 5

Sci

Jul 62

201,512

Silicon Solar Batteries as Sources of Electrical Power for Artificial Earth Satellites,
by V. S. Vavilov, V. M. Malovetskaya, G. N.
Galkin, A. P. Landsman. UNCLASSIFIED

RUSSIAN, per, Akademiya Nauk, SSSR, Vol LXIII,
No 1a, Sep 1957.

Navy Tr 1821/JH T 6

Sci - Electronics

Aug 68

67,770

Investigation of the Semiconductor Triode by Means
of Models, by V. S. Vavilov, L. S. Smirnov.

RUSSIAN, per, Priory i Tekhnika Eksperimenta, No 2,
1956, pp 99-104.

Assoc Tech Sv *TR*

\$9.75

RT-792

Sci - Physics
Aug 57

51, 548

ATS 1-6448

Formation of Crystal Lattice Defects in Germanium
by Fast-Electron Bombardment, by V. S. Vavilov,
L. S. Smirnov, G. N. Galkin, A. V. Spitsyn, V. M.
Patskevich, 4 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXVI, No 9,
1956, pp 1865-1869.

Amer Inst of Phys
Soviet Phys-Tech Phys
Vol I, No 9

Sci - Phys

54,406

Oct 57

Ionizing Energy of Electrons in Germanium Crystals.
~~Germanian~~, by V. S. Vavilov, L. S. Smirnov, V. M.
Patakevich, 3 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXII,
No 6, 1957, pp 1020-1022.

Amer Inst of Phys
Sov Phys, "Doklady"
Vol II, No 1

56,960

Sci - Physics
Dec 57

Influence of Fast-Neutron Irradiation of Recombination of Electrons and Holes in Germanium Crystals,
by V. S. Vavilov, A. V. Spitsyn, L. S. Smirnov,
M. V. Chukichev,

RUSSIAN, bk, Metallurgiya i Metallovedenie, 1958,
pp 450-458.

AEC NP Tr-448

Sci - Min/Met
27 Oct 60

130,784

Solar Batteries. Direct Transformation of Radiant
Energy Into Electrical Energy With the Aid of
Photocells, by V. S. Vavilov, 10 pp.

RUSSIAN, no per, Atomnaya Energiya, Vol I, No 3,
1956, pp 107-116.

Assoc Tech Sv 59M11 R
(11.00 - 3.00)

Scientific - Nuclear Physics
Feb 57

43,087

Saddle Truck-Tractor GAZ-51P and Semitrailer
GAZ-744, by Ye. Vavilov, 7 pp. (ID 2124590)

RUSSIAN, per, Motornyy Transport, No 2, 1959,
pp 37-41.

ACSI H-5857

USSR

119,370

Econ

Jun 60

Yon Lening in Cosmic-ray Muon Beams, by Yu. N.
Chelilov.

RUSSIAN, per: Zhur Eksper i Teoret Fiz, Vol XLIII,
No 3, 1962.

Amer Inst of Phys
Sov Phys - JETP
Vol XVI, No 3

Sci

233,195

Apr 63

The Penetrating Component of Extensive Cosmic Ray
Showers in the Atmosphere, by Yu. N. Vavilov, Yu.
F. Evstigneev, and S. I. Nikol'skiĭ, 7 pp.

RUSSIAN, bino per, Zhur Eakper i Teoret Fiz,
Vol XXXII, No 6, 1957, pp 1319-1327.

Amer Inst of Physics
Sov Physics - JETP
Vol V, No 6

Sci - Physics
Apr 58

60, 415

The Spatial Distribution of Nuclear-active Particles
in Broad Atmospheric Showers of Cosmic Rays, by
Ya. N. Vavilov, S. I. Nikol'skii, V. P. Sarantsev, 2 pp.

RUSSIAN, bimo per, Zhur Eksper i Teoret Fiz, Vol
XXVIII, Apr 1955, pp 505-506. CIA C 40846

57
AE 1 - 350
American Inst of Physics
57 East 55 St.
New York 22, N. Y.

Scientific - Physics

31,522

On Interpretation of the Lateral Distribution of
Nuclear-Active Particles in Extensive Air Showers, by
Yu. N. Vavilov, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIII,
No 1, 1957, pp 179-182.

Amer Inst of Phys
Sov Phys-JETP
Vol VI, No1

Sci -Physics
May 58

62,788

An Investigation of the N Component of Extensive
Air Showers, by S. N. Nikol'skiy, Yu. N. Vavilov,
V. V. Batov, 3 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXI,
No 1, Nov-Dec 1956, pp 71-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 6

Sci - Physics
Oct 57

53,423

A Study of Certain Types of Gas-Discharge Counters
Under Pulsed Supply Conditions, by Yu. N. Vavilov,
I. A. Prager, 4 pp.

RUSSIAN, per, Pribery i Tekh Eksp, No 2, 1960,
pp 41-44.

144

ISA

Sci

Feb 61

144, 160

Structure of the Periphery of Extensive Atmospheric
Cosmic Ray Showers, by Yu. N. Antonov, Yu. N. Vavilov,
G. T. Zatsepin, A. A. Kutuzov, Yu. V. Skvortsov,
G. B. Kristiansen, 14 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXII,
No 2, pp 227-

Sep 1957

Amer Inst of Phys
Soviet Phys, JETP
Vol V, No 2

Sci - Physics
Oct 57

53,829

(SF-1912)

The Scientific Activity of the Komi Affiliate of the AN
USSR, by P. P. Vavilov, 12 pp.

RUSSIAN, per, Iz Vostochnykh Fil Ak Nauk SSSR, No 8,
1957, pp 117-125.

JPRS 4910

Sci - Misc.

167, 653

Sep 61

Recombination Levels in p-Silicon Created by High-Tem-
perature Heat Treatment, by G. M. Galkin, Ye. L. Noll
V. S. Vavilov, 5pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol III, No 6, 1961,
pp. 2355 - 2361

AIP
Sov Phys - Solid State
Vol III, No 8

192,512

Sci
Mar 62

6
Mean Energy of Formation of Pairs During Irradiation
of Germanium by Cobalt⁶⁰ Gamma-Rays, M. V.
Chukichev, V. S. Vavilov, 5 pp.

RUSSIAN, per, Fizika Tverdogo Tela, Vol III,
No 3, 1961, pp 935-942.

AIP
Soviet Phys
Vol III, No 3

168,724

Sci

Sep 61

Sital From Slags - A Path Into Life, by
V. V. Mavilov, 7 pp.

RUSSIAN, np, Ekonomicheskaya Gazeta,
11 Dec 1961, p 19. 9683274

PTD-TT-63-60

Sci-Engr
Jun 63

234526

67
Apparatus for Measuring the Intensity of Cosmic
Rays at Great Depths, by Yu. N. Vavilov, B. A.
Malepo.

RUSSIAN, per. Metody i Pribery dlya Issledovaniya
Risicheskikh Protsessov v Okeane, Vol 36, 1964,
pp 31-36.

*Dept of Navy NCC tr 378

Sci-Earth Sci

Dec 67

Copy 21 / 100000

(NY-6890)

RESEARCH ON THE PHYSICS OF COSMIC RAYS,
BY YU. N. VAVILOV, V. M. FEDOROV, 4 PP.

RUSSIAN, PER, VEST AK NAUK SSSR,
NO 10, 1961, PP 126-128.

JPRS 12173

SCI - PHYS
FEB 62

100,676

Effect of Blade Section Shape in a Hydraulic
Turbine on its Performance, by G. F.

Vavilova,

RUSSIAN, per, Trudy Gidravlicheskikh Laboratorii,
1964, No 11, pp 103-115

NEL RDS 2950

(ON LOAN OR PURCHASE)

L. A. Vavilova

Sci - Eng

May 67

325,801

Spherical Two-Mirror Antennas, by L. D. Bakhrakh,
I. V. Vavilova, 9 pp.

RUSSIAN, per, Radiotekh i Elektron, No 7, 1961.

AIEE

191,767

SCI

March 1962

The Comparative Characteristics of Trace Alimentary
and Trace Defensive Conditioned Reflex in Dogs
During Early Postnatal Development, by N. M.
Vavilova, G. A. Obratzsova, 8 pp.

RUSSIAN, per, Zhur Vysshey Nerv Deyatel' Imeni I. P.
Pavlova, Vol XI, No 1, 1961, pp 112-118.

PP

Sci
May 62

192,818

55
A Method of Studying Individual Features of
Higher Nervous Activity in Dogs During Early
Postnatal Ontogenesis, by N. N. Vavilova,
G. A. Ubrantsova, 17 pp.
RUSSIAN, per, Metodiki Issledeniya Tipologicheskikh
Osobennostey Vysshey Nervnoy Deyatel'nosti
Zhivotnykh, 1964, pp 62-76. P10018368-Y
PTD-BF-67-186

N. N. Vavilova

Sci/ADM

Aug 68

304,835

Trends in Research on the Ontogeny of the
Central Nervous System in Animals, by N. M.
Vavilova, M. P. Klyavina, G. A. Obrazisova, V. A.
Troshikhin, 11 pp.

RUSSIAN, per, Uspekhi Sovrem Biol, Vol XLIX,
No 1, 1960, pp 104-114.

Oliver & Boyd Ltd
Tweeddale Court
14 High Street
Edinburgh, 1

Sci

120, 371

Jul 60

Optical Range Finder With Semiconductor Elements,
by S. I. Vavilova, K. K. Yarmarkin, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Geodez i
Aerofotos, No 1, 1959, pp 77-83.

ACSI I-2701
ID 2235126

Sci - Electron
Aug 63

343,345

(EO 12812)

Results of the Introduction of Turbine Drilling, by
Y. Vavov, 16 pp.

BULGARIAN, per, Minno Delo i Metalurgiya, Vol XV,
No 6, 1960, pp 3-10.

JPRS 6661

Eur - Bulgaria

Econ

140,111

Feb 61

(DC-5618) ~~XXXX~~

Yugoslav Administration and the Citizen,
by Lado Vavpetic, 25 pp.

SERBO-CROATIAN, per, ~~XXXX~~ Nova Administracija,
Vol IX, No 1, 1961, pp 21-38.

JPRS 8378

EEUR - Yugoslavia
Pol
Jun 61

156,663

Utilization of the Zimm Method for Ascertaining the
Molecular Weight of Natural Rubber, by J. Vavra.

CZECH, per, Chemické Zvesti, No 1, 1960,

NLL M. 2821

Sci

Feb 62

186,904

Apparatus For the Parallel Arrangement of Fibers,
by Josef Vavra, Miloslav Pavek, 3 pp.

CZERN, patent no 92,270.

Dept. of Commerce
Patent Office
Sci Lib

Sci

177,325

Dec 21

ADVANCED AGRICULTURAL SCHOOLS IN THE RUMANIAN
PEOPLE'S REPUBLIC, BY MILOSLAV VAVRA, 10 PP.
GOVERNMENT USE ONLY

CZECH, PER, VYSOKA SKOLA, NO 2, 1962-1963,
PP 51-56.

JPRS 17334

EEUR - RUMANIA

SOC

JAN 63

221,022

(DC-5965)

Creation of Optimum Conditions for Foam
Absorption of Sulfur Trioxide, by Vlastimil
Vicek, Vaclav Vavra, and Miloslav Stary, 5 pp.
GOVERNMENT USE ONLY

CZECH, per, Chemicky Prumysl, Vol 11, No. 9,
Sept 1961, pp 457-461.

JPRS 12690

EEur-Czech
Econ
Mar 62

186,991

(17-6089)

The Aging of the Population in the Czech Regions
and Its Geographical Importance, by Zdenek Vavra,
36 pp. OFFICIAL USE ONLY

CZECH, per, Sbornik Ceskoslovenske Spolecnosti
zemepisne, No 1, 52 Jan-Mar 1961, pp 56-70.

JPRS 9345

COPYRIGHT

EEur - Czechoslovakia

Eus Soc - Geog

Jun 61

158, 365

6
Party Organizations in the JZEP, by Josef Yavrik, 9 pp.
CZECM, per, Nova Mysl, No 8, 1944, pp 1004-1013.
JPRS 27032

KE-Czechos
Pol
Jan 45

270,932

Housing Construction Time [Czechoslovakia]
by F. Vavrosky, (Wk Econ Rpt on EBar, 233).

CZECH, per, Statistics Zpravu, Prague,
30 Nov 1958, pp 29-32.

CIA/FDD Sum 2065

EBar - Czechoslovakia
Econ
Jan 59

79,545-

Housing Construction in 1957 [Czechoslovakia], by
Fr. Vavrosky. (Wk Econ Rpt on KEUR, 229).

CZECH, per, Statistické Zpravy, Prague, 30 Sep
1958, pp 17-20.

CIA/FDD Sum 2031

KEUR - Czechoslovakia
Econ
Dec 58

78,003

Housing Construction, by Dr. Frantisek Vavrosky.
FOUO

CZECH, per, Hospedarske Noviny, 1960, p 6.

FDD Sum 2594

EEur-Czechoslovakia

COPYRIGHT

119,028

Econ-Construction

Jun 60

Influence of European Larch on Changes in Sod-
Podsollic Soils, by M. V. Vaychis, 8 pp.

RUSSIAN, per, Pochvovedeniya, No 5, 1958, pp 12-21.

ATBS

Sci -
Jan 61

137,170

Mechanism of the Aryoxy-Coupling Reaction,
by H. M. Shemyakin, Y. I. Nymind,
D. Z. Vaynshteyn, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1957, pp 1260-1261.

Consultants Bureau

Sci. Chem

May 59

86, 943

(NY-5135)

Histotopographical Study of a Diffuse Cardiac
Myofibrosis in Hypertensive Vascular Disease, by
S. S. Vayl, 12 pp.

RUSSIAN, per, Klin Med, Vol XXXVIII, No 8,
1960, pp 93-99.

JPRS 7173

135,704

Sci - Med

Dec 60

(NY-5188)

On Compensatory Cardiac Changes in Cardiosclerosis,
by S. S. Vayl', 10 pp.

RESEARCH, 1960, 107-108; *Scientific Monthly*, Vol XXXII, No 8, 1960, pp 65-71.

JPRS 7211

Sci - Med

Dec 60

134,452

(NI-5596)

Changes in the Right Ventricles of the Heart
Occurring in Hypertensive Disease and Atherosclerosis,
by S. S. Vayl', 20 pp.

RUSSIAN, per, Arkhiv Patologii, Vol XXII, No 11,
1960, pp 18-24.

JPRS 7708

Sci - Med

Feb 61

140,463

SLA: 61-11975

S-38/60

(NY-3610).

Pathological Anatomy of Affections Caused by
Toxic Substances, by S. S. Vayl', 26 pp.

~~NY~~ RUSSIAN, bk, Patologicheskaya Anatomiya
Poracheniy, Vyzyvayemykh Otravlyayushchimi
Veshchestvami, 1956, pp 3-32.

JPRS 2625

Sci - Chemistry
May 60

116,678

SPECIALIZATION AND SYNTHETIC MATERIALS BY
G. BORISOVICH AND A. YASH, 6 PP

RUSSIAN, IN, INGENIERNAYA GAZETA, NO 38,
21 SEPT 63, PP 14.

JPRS 21786

UOOR
ECEN
NOV 63

241,565

FURTHER EDUCATION OF ENGINEERS AND ECONOMISTS IS
NEEDED, BY A. WITK, 6 PP.

RUSSIAN, KP, ENNECHICH GAZETA, NO 18, 4 MAY 63,
PP 31.

JRS 1967

USSR
ECON

JUL 63

825.328

The Surface Tension of Cryolite Baths in the
Fused State, by A. Vayna, 18 pp.

ITALIAN, ^{per,} ₁ Alluminio, Vol XX, No 1, 1951, pp 29-38.

SIA Tr 780/1955

Sci - Min/Met

50, 195-

Jul 57

Viscosity of Cryolite Baths for the Electrolysis of
Aluminum, by A. Vayna, 25 pp.

ITALIAN, per, Alluminio, Vol XIX, No 2, 1950, pp
133-145.

SIA Tr 781/1955

Sci - Min/Mat

Jul 57

50,196

Vayna, A.
ELECTRICAL CONDUCTIVITY OF ALUMINUM
ELECTROLYSIS BATHS ON THE BASIS OF FUSED
CRYOLITE. [1963] [25p] 4refs
Order from SLA \$2.60 63-20451

Trans. of Aluminolo (Italy) 1950, v. 19, p. 215-224.

DESCRIPTORS: *Cryolite, Fused materials,
*Alumina, Industrial production, Electrolysis,
Electrical conductance.

It is shown that the conductivity of the cryolite,,
at constant temperature, decreases linearly with
increasing Al_2O_3 content. From this fact one can
deduce that the Al_2O_3 functions as an associated
inert solvent for the cryolite, which is the completely
dissociated electrolyte to which the electrical conduc-
tivity of the fused mixture is due. (Author)
(See also 63-20451, 63-20452, 63-20453, 63-20454)

63-20451

I. Vayna, A.

6100

Office of Technical Services

Multi-Strip Spatial Planimetric Phototriangulation,
by V. V. Vaynaukas, 4 pp.

RUSSIAN, per, Geodez i Kartog, No 9, 1961,
pp 33-40.

AGU

Sci
[initials]

Jun 62

199,015

On the Variational Theory of Nonlinear Operators and Equations, by M. M. Vainberg, R. I. Kachurovskiy, 9 pp.

Soviet Math. per, Dokl. Ak. Nauk SSSR, Vol. 12, No. 6, 1959, pp. 1199-1202.

SLA 61-10267

Vol. 7, No. 5
Jul. 61

160,154

On the Fixed Directions of the Product of Some
Operators, by M. M. Vaynberg, 9 pp.
RUSSIAN, per, Soviet Akad Nauk SSSR, Vol 83, 1952,
pp 261-263. F911156167
AEC UCEL Tr-10094

M. M. Vaynberg

326,444

Sci - Nuclear Science
May 67

Variational Methods for Studying Non-linear Operators,
by M. M. Vainberg.

RUSSIAN, bk, 1956.

Infosearch Ltd.
242 Willesden Lane
London, N.W.10.

Apr 59

(NY-5517)

The Incorporation of the Rad Unit into the
Practice of Medical Radiology, by M. S. Vaynberg,
6 pp.

RUSSIAN, per, Medit Radiol, No 10, 1960.

JPRS 7886

Sci - Med

Apr 61

147,233

(DC-4457)

Workers of the Institute Aid Production, by M. Ye.
Vaynberg, 2 pp.

RUSSIAN, per, Vestnik Svyazi, No 9, 1948, p 9.

JPRS 6693

Sci

Feb 61

Present State of the Problem of So-Called Artificial Kidney, by Z. S. Vainberg.

RUSSIAN, per, Urologiya, Vol IV, Moscow, Oct-Dec 1955, pp 68-76.

WH 142
9

Sci - Med

Sep 68

75 507

Filterable Forms of Typhoid, Paratyphoid, and
Dysentery Bacilli. Methods of Production and
Regeneration, Species-Forming Variation, by B. G.
Valnberg, K. I. Cherviakova, E. I. Brutman,
M. I. Choporova, 7 pp.

RUSSIAN, no per, Zhur Mikrobiol, Epidemiol i
Immunobiol, Vol XXVIII, No 3, 1957.

Pergamon Press

Sci - Medicine
Oct 57

5-3, 846

S-5173

(DC-2854).

Development of Dosimetry in the USSR, by M. Sh.
Vaynberg, 8 pp.

RUSSIAN, per, Vest Rentgenologii i Radiologii,
No 5, 1957, pp 35-40.

JPRS-853-D

Sci - Med, Radiology, Dosimetry
Aug 59

93,730

A Method of Electric Arc Welding of Studs, by D. I. Vaynbeyn, 2 pp.

RUSSIAN, patent 105,243 (appended to a Certificate of Authorship No. 103,306) filed 5 May 1956 under no. 551,196.

ATS-19L32R

Sci

OTS, Vol III, No 8

145,140

Apr 61

(NY-4793)

On the Bactericidal Action of Propolis Extract
on Some Pathogenic Microorganisms, by Z. Kh.
Karimova, K. I. Sevast'yanova, K. A. Savina,
L. M. Vayner, 6 pp.

RUSSIAN, per, Kazan Medit Zhur, No 1, Jan/Feb 1960,
pp 71-73.

JPRS 5676

Sci - Med

128,374

(70-47,50)

Economic Effectiveness of the New Organization of
Material-Technical Supply of Kolkhozes and
Sovkhozov, by V. Alferov, M. Vayner, 3 pp.

USSR:1. per, Ekonomika Selskogo Khozyaystva
No 2, 1960, pp 43-48

JPRS 6407

136,748

USSR

Econ

Jan 61

Banking Credit Contributes to the Modernization of
Industry in Estonia, by K. Vayno, 5 pp.
RUSSIAN, np, Pravda, 16 Oct 1964, p 5.
JPRS 27,867

USSR
Econ
Feb 65

272,520

PHYSICOTECHNICAL PRINCIPLES OF THE "ARTIFICIAL
KIDNEY" APPARATUS. REPORT II.- III, COM-
PARISON OF OBTAINED RESURLTS WITH EXPERIMENTAL
DATA, BY YE. A. VAYNRIB, 14 PP.

RUSSIAN, PER MEDITSINSKAYA PROMYSHLENNOST'
SSSR, VOL XVI, NO 7, 1962, PP 58-62.

JPRS 15759

SCI-MED

1615.62

215,110

(NY-5947)

Extracorporeal Circulation Apparatus, by Ye. A.
Vaynrib, L. N. Martynov, Ya. A. Frid, Yu. G.
Kozlov, et al, 11 pp.

RUSSIAN, per, Med Prom SSSR, Vol XIV, No 11,
1960, pp 40-45.

JPRS 9074

Sci - Med

May 61

150,979

(SF-2313)

PHYSICO-TECHNICAL PRINCIPLES OF THE "ARTIFICIAL
KIDNEY" APPARATUS, BY YE. A. VAYNRIB, 6 PP.

RUSSIAN, PER, MEDIT FROM SSSR, NO 6, 1962,
PP 52-55.

JPRS 15158

SCI - MEDIC

SEP 62

210,192

Artificial Circulation Apparatus, by
Ye A. Vaynrib, A. D. Khazan

RUSSIAN, no per, Voenno Med Zhur, No 1,
Moscow, Jan 1959, pp 44-49

US JPRS 1555-N

Sci-med,

May 59

87,330

Reactions of the Methyl Ester of Methacrylic Acid with
Organo-Magnesium Compounds. I. Reaction of Methyl-
methacrylate with Isopropylmagnesium Bromide, by A. I.
Lebedeva and E. D. Vaynrub. 4 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXII, No 11,
1952, pp 1974-1976.

Consultants Bureau

Scientific - Chemistry

May CTS/DEX

12,201