

27-7-0
S/837/61/049/000/003/011
B102/B104

AUTHORS: Prepelitsa, B. V., Pokatilov, Ye. P.

TITLE: Electric conductivity and Hall effect in semiconductors with loops of extrema

SOURCE: Kishinev. Universitet. Uchenyye zapiski. v. 49, 1961, 29 - 31

TEXT: The occurrence of bands with extremum-loops in wurtzite-type crystals when spin-orbital interaction is taken into account has been shown in group-theoretical studies by E. I. Rashba and V. I. Sheka (FTT, 1, 2, 162, 1959; FTT, 1, 3, 307, 1959). The energy of this interaction can reach several hundreds of eV, as was shown experimentally for CdS, and should exert a great effect on the kinetic coefficients. This effect was theoretically determined as regards the relaxation time, the electric conductivity, and the Hall effect. The expressions for $1/\tau$, σ_{H}/σ_{L} , and the Hall coefficient ratio $R(H||z)/R(H\perp z)$ obtained in crystals with circular minimum loops are compared with those for point minima. It is shown that measurements of the Hall constant offer the best way of finding out whether a semiconductor has an extremum loop or not; the Card 1/2

Electric conductivity and Hall effect ... S/837/61/049/000/003/011
B102/B104

mobilities or the conductivity ratios differ only by a factor of 2. The Hall coefficient ratio for semiconductors with extremum loops is characterized by an exponential drop with temperature.

Card 2/2

EWT(1)/EWG(k)/EEG(b)-2/BDS--AFFTC/ASD/ESD-3--Pz-4--AT/IJP(C)
L 10062-63

ACCESSION NR: AR3000372

S/0058/63/000/004/E060/E060

64

SOURCE: RZh. Fizika, Abs. 4E405

AUTHOR: Pokatilov, Ye. P.; Prepelitsa, B. V.

TITLE: Effect of screening and acoustoelectric effect in semiconductors with one type of current carrier ²¹

CITED SOURCE: Tr. po. fiz. poluprovodnikov. Kishinevsk. un-t, vyp. 1, 1962, 15-18

TOPIC TAGS: acoustoelectric effect semiconductors, screening

TRANSLATION: The acousto-electric effect in a semiconductor is considered with allowance for screening by the current carriers of the field produced by the deformation potential. It is shown that the screening greatly reduces the acousto-electric emf. V. S.

DATE ACQ: 14May63 ENCL: 00 SUB CODE: PH

CB/ *ja*
Card 1/1

L 26767-66 EWT(1)/T IJP(c) GG

UR/2837/64/069/000/0003/0005

ACC NR: AT6005619

AUTHOR: Pokatilov, Ye.P.; Prepelitsa, B.V.

37
B+1

ORG: Kishinev State University (Kishinevskiy gosuniversitet)

TITLE: Ground state energy of a piezopolaron in a cubic symmetry crystal

SOURCE: Kishinev. Universitet. Uchenyye zapiski

TOPIC TAGS: crystal, cubic crystal, crystal symmetry, crystal structure, piezoelectric crystal, ground state

ABSTRACT: This paper is a study of ground states in crystals of cubic symmetry. The analysis was based on previous work by one of the authors, which showed that the potential created by the piezopolarization of an electron has an asymptotic Coulomb nature. The elastic constants and piezoelectric moduli of cubic crystals determined before by P. Belincourt, et al., (Phys. Rev. 129,3, 1009, 1963) were utilized for quantitative calculations. Due to the cubic symmetry, it was possible to neglect the deviations of polarization from the longitudinal and transverse directions relative to the wave vector. The radius of the ground state of ZnS at - 195°C is estimated to be between .0000051 and .000056 cm. Orig. art. has 11 formulas.

SUB CODE: 20/ SUBM DATE: None/ ORIG REF: 003/ OTH REF: 002

Card 1/1 *pla*

PREPELITSA, B.V.; FOKATILOV, Ye.P.

Electroconductivity and Hall effect for semiconductors with
an extremum loop. Uch. zap. Kish. un. 49:29-31 '61. (MIRA 15:7)
(Hall effect) (Semiconductors--Electric properties)

S/058/61/000/010/076/100
A001/A101

24,7500

AUTHORS: Pokatilov, Ye.P., Prepelitsa, B.V.

TITLE: Relaxation time in scattering of electrons by acoustic oscillations of lattice, ionized and neutral impurities in wurtzite-type crystals

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 251, abstract 10E167 ("Uch. zap. Kishinevsk. un-t", 1960, v. 55, 163 - 174)

TEXT: The tensor of relaxation time for wurtzite-type crystals is calculated by the Herring and Vogt method (RZhFiz, 1957, no. 1, 1581). Formulae are derived for the case of electron scattering by thermal acoustic lattice oscillations, as well as for scattering by neutral impurities and screened Coulomb centers. In the latter case the calculation is performed in Born approximation. ✓B

V. Trubitzyn

[Abstracter's note: Complete translation]

Card 1/1

L 26476-65 EWT(1)/EWT(m)/EPA(s)-2/ENP(t)/ENP(b) Pt-10 IJP(c) JD
ACCESSION NR: AR5004856 S/0058/64/000/011/EO42/EO42

SOURCE: Ref. zh. Fizika, Abs. 11E342

AUTHORS: Pokatilov, Ye. P.; Prepelitse, B. V.

TITLE: Ground-state energy of a piezopolaron in a crystal of cubic symmetry

CITED SOURCE: Uch. zap. Kishinevsk. un-t, v. 69, 1964, 3-5

TOPIC TAGS: piezopolarization, piezopolaron, crystal symmetry, cubic crystal, electron orbit

TRANSLATION: Continuing an earlier paper, in which it was shown that the potential produced by piezopolarization of an electron approaches asymptotically a Coulomb potential, the authors estimate the radii of the ground-state orbits and the states for cubic-symmetry crystals (ZnS and CdS).

SUB CODE: SS

ENCL: 00

Card 1/1

28
24
B

POKATILOV, Ye.P.; PREPELITSA, B.V.

Energy of the ground state of a piezopolaron in a cubic
crystal. Uch.zap.Kish.un. 69:3-5 '64.

(MIRA 18:12)

ZINGER, Kh.M.; SANDLER, F.S.; PREPELITSKAYA, A.M. [Prepelyts'ka, A.M.]

Use of polyacrylamides for sizing. Leh.prom. no.4:23-24 O-D
'62. (MIRA 16:5)

(Sizing (Textile)) (Acrylamide)

L 09385-67 EWT(1) IJP(c)

ACC NR: AR6033789

SOURCE CODE: UR/0058/66/000/007/E070/E071

47

AUTHOR: Cheban, A. G. ; Rozneritsa, Ya. A. ; Katana, P. K. ; Prepelitsa, B. V.

TITLE: Effect of electric and magnetic fields on local states in semiconductors and dielectrics

SOURCE: Ref. zh. Fizika, Abs. 7E534

REF SOURCE: Uch. zap, Kishinevsk. un-t, no. 80, 1965, 83-98

TOPIC TAGS: electric field, magnetic field, semiconductor, dielectric, impurity center, impurity absorption, optical absorption

ABSTRACT: An investigation is made of the mechanism of thermal field ionization of impurity centers in semiconductors. A formula which takes into account the disintegration of impurity centers is derived for charge-carrier concentration as a function of electric field intensity. The effects of the electric and magnetic fields on the coefficient of optical absorption as a function of impurity centers is also investigated. It is shown that in the region of impurity absorption, as well as in fundamental absorption, the electrical field displaces the absorption edge toward lower frequencies. The effect of the magnetic field on the impurity absorption edge

Card 1/2

L 09385-67

ACC NR: AR6033789

manifests itself in the appearance of oscillating magnetic absorption curves, which make it possible to determine the effective mass of the charge carriers. The effect of the magnetic field on the F' absorption band is also investigated. The frequency function of the absorption coefficient in photoionization of the F-center in the presence of the magnetic field is oscillatory in form. [Translation of abstract]

SUB CODE: 20/

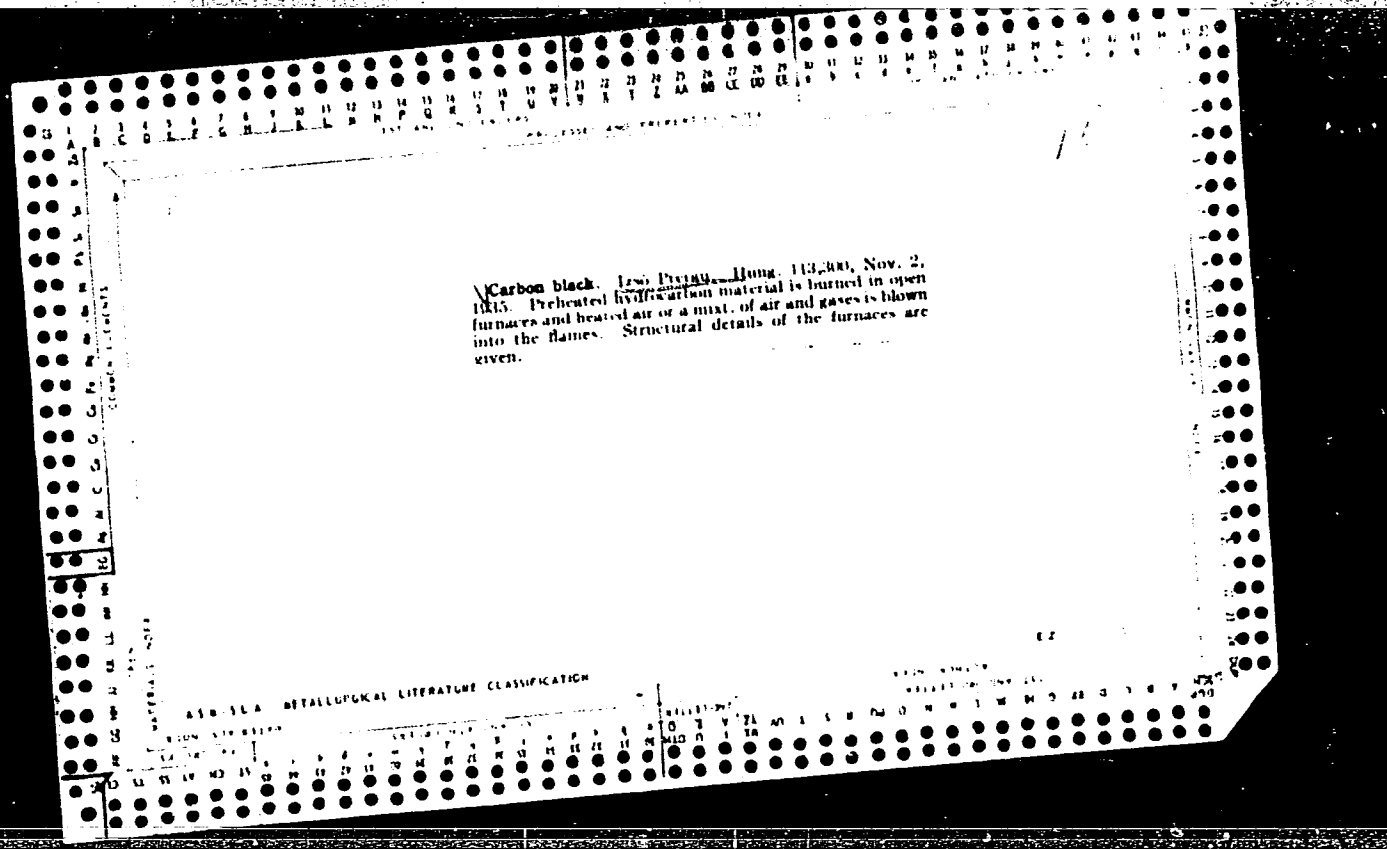
Card 2/2 ml

FREKIN, P., Eng.

Electric Welding

Welding of cast iron. *Trof. prom.* 29 no. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED



PREROVSKA, I.; VANECK, R.; KUBAT, K.

Effect of carbon disulfide on experimental atherosclerosis in the rabbit. Acta univ. carol. [med.] Suppl. 14:177-185 '61.

I. Klinika nemoci z povolani fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. J. Teisinger II. patologicko-anatomicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. V. Jedlicka.
(ARTERIOSCLEROSIS exper) (CARBON DISULFIDE pharmacol)

CZECHOSLOVAKIA UDC 613.632.4:615-099(:546.262.3)-036.12.616.153.
.915-072:616.13-004.6

PREROVSKA, Ivana; DRDKOVA, Sona; Clinic of Occupational Diseases (Klinika Chorob z Povolani) Chief (Prednosta) Prof Dr J. TEISINGER; Institute for Organization of Medical Services (Ustav pro Organizaci Zdravotnictvi), Chief (Prednosta) Prof Dr Z. STICH, Faculty of General Medicine, Charles University (Fak. Vseob. Lek KU), Prague.

"Effect of Chronic Exposure to CO on Biochemical Changes in the Serum in Respect to Atherosclerosis."

Prague, Pracovni Lekarstvi, Vol 19, No 1, Jan 67, pp 1 - 4

Abstract [Authors' English summary modified]: 50 healthy employees aged 20 - 40 years working in 2 dangerous locations were examined. Max. CO concentration reached 0.1 % by vol; exposure time was 3 - 20 years. The content of cholesterol, beta-lipoproteins, and total lipids were identical with the values found in controls; content of phospholipides was slightly higher. It appears that the small amounts of CO have no influence on the occurrence of atherosclerosis. 4 Figures, 1 Table, 15 Western, 6 Czech, 1 USSR reference. (Manuscript received 20 Dec 65).
1/1

PREROVSKA, Ivana; TEISINGER, Jaroslav, prof. dr., DrSc.

The clinical picture of cancer poisoning with antitumor glycol.
Pras. lek. 17 no. 3: 41-43. 1965

1. Klinika nemocí z povolání fakulty všeobecného lékařství v
Praze (prednosta: prof. dr. J. Teisinger, DrSc.).

PREROVSKA, Ivana; STYBLOVA, Valja

Peroral poisoning with mononitromethane. *Prac. lek.* 16 no.4:
168-170 My '64

1. Klinika chorob z povolani fakulty vseobecneho lekarstvi
Karlovy University v Praze (prednosta: prof. dr. J. Teisinger,
DrSc.) a Neurologicka klinika lekarske fakulty hygienicke
Karlovy University v Praze (prednosta: prof. dr. Z. Macek,
CSc.).

PROLIFERATION

DAVID, Alec, MDR.; ~~DAVIDOVA~~, Ivan, MDR.

Traumatic vascular neurosis caused by vibration during work on rotating horizontal hammer. *Pracovni lek. 9 no.1:57-61 for 58.*

1. Klir's chorob z dovolani a hygieny prace, unalost' ref. MDR
J. Teisinger.

(VIBRATIONS, ind. eff.

peripheral neurovasc. disord. caused by rotation hammer
in indust. (C23)

(A) CHIASMATIC, PERIPHERAL, etiol. & pathogen.

neurovasc. caused by vibrations of rotating hammer in
indust. (C23)

(C) PERIPHERAL DISORDERS, case reports

peripheral neurovasc. disord. caused by vibration in
indust. (C23)

0.036, V. L. pšenový geolog., 1914/14, M., pšenový geolog

Mineralogical and paleontological character of unknown fossils
from the Kozice deposit, July 12, 1914, pšenový geolog, V. L. pšenový
ustava no. 2-12-14, M., 1914

FREROVSKY, KAREL.

Ceskoslovenske lazne. Karel Frerovsky a spolupracovníci. Praha, Státní zdravotnická nakl., 1957. 214 p. (Czechoslovak health resorts. 1st ed. illus., table)

SO: Monthly Index of East European Accession (EEAI) IC, Vol 7 no 1 Jan 1958

SVEJCAR, J.; FREROVSKY, I.; LINHART, J.

Notes on determination of the hexosamine content in a connective tissue. Coll Cz Chem 28 no.3:728-732 M^t '63.

1. Biochemisches Zentrallaboratorium, Thomayer-Krankenhaus, und Institut für Krankheiten des Blutkreislaufes, Prag.

LINHART, J.; PREROVSKY, I.

Nervous control of venomotor tone in cardiac failure. Rev. Czech.
M. 3 no.3:177-202 1957.

1. Institute for Cardiovascular Diseases, Prague. Director:
Prof. K. Weber.

(CONGESTIVE HEART FAILURE, physiol.

control of venous pressure by NS.)

(NERVOUS SYSTEM, physiol.

control of venous pressure in congestive heart failure)

(BLOOD PRESSURE, in various dis.

congestive heart failure, control of venous pressure)

2

CZECHOSLOVAKIA

PROHEK, A; PEROVSKY, I.

Institute of Diseases of the Blood (Ustav pro choroby
obehu krevniho), Prague-Kro (for both)

Brno, Vnitri lekarstvi, No 6, 1963, pp 547-559

"Progress in Methods of Cardiological Investigation."

LINHART, Jiri PREROVSKY, IVO
SURNAME, Given Names

3

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Institute for the Blood-Circulation Diseases (Ustav pro choroby obehu krevniho), Prague; Director: Academician Klement WEBER.

Source: Prague, Vnitřní Lekarství, Vol VII, No 5, 1961, pages 500-509.

Data: "Oxygen Consumption of Human Feet and the Effect of Heat."

Co-authors:

PREROVSKY, Ivo, Institute for the Blood-Circulation Diseases,
Prague.

gpo 981643

LINHART, J.; PREROVSKY, I.; FELJFAR, Z.; Technical Collaboration:
M. Matouskova

Reflex adaptation of the peripheral circulation in man. II.
Active cholinergic dilatation of the muscle blood vessels.
Physiol. bohém. 5 no.2:234-243 1956.

1. Presented in abbreviated form to the General Section of the
J. F. Purkyne Medical Association, Feb. 7, 1954 and at the Congress
of Czechoslovak Physicians and Endocrinologists, Prague, May 27,
1954. Institute for Cardiovascular Diseases, Prague.

- (SYMPATHOLYTICS, effects,
dibenamine nerve block on vasomotor funct. in man)
- (ATROPINE, effects,
nerve block on vasomotor funct. in man)
- (GANGLIA, AUTONOMIC, physiology,
eff. of stellate ganglion block on vasomotor funct. in
man)
- (ANESTHESIA, REGIONAL, effects,
atropine, dibenamine & procaine nerve block & stellate
ganglion block on vasomotor funct. in man)
- (BLOOD VESSELS, physiology,
vasomotor responses to atropine, dibenamine & procaine
nerve blocks & stellate ganglion block in man)

PREROVSKY, I.; VAVREJN, B.; LINHART, J.

The clearance of I131 from muscle and the subcutaneous space of the lower extremity as a function of body position. *Physiol. Bohemoslov.* 11 no.5:443-451 '62.

I. Institute of Cardiovascular Research, Institute for Clinical and Experimental Surgery, Prague.

(BLOOD CIRCULATION)	(POSTURE)	(LEG)
(MUSCLE)	(SKIN)	(CAPILLARIES)

7877
KHUML, J; PREROVSKY, I; TREFNY, Z; ZUFNICKOVA, J.

Slide method in culture of tubercle bacilli. Cas. lek. cesk.
89 no.30:841-844 28 July 1950. (CJML 20:1)

1. Of the Bacteriological and Serological Department in Bulovce
(Head--J. Viklicky) and of the Institute for Clinical Physiology
of the Medical Faculty of Charles University, Work Group of V.
Kurti (Head--Prof. J. Skladal, M. D.).

PREROVSKY, I.

PREROVSKY, I.; LINHART, J.

Reflex adaptaion of the peripheral circulation in man; III. Importance of arteriovenous anastomosis. Cas. lek. cesk. 44 no.10:260-262
4 Mar 55.

1. Ustav pro choroby obehu krevniho; predn. prof. dr. Kl.Weber.
 - (BLOOD CIRCULATION
 - peripheral; eff. of arteriovenous anastomoses on reflex adaptation)
 - (ARTERIES
 - arteriovenous anastomosis, eff. on reflex adaptation in peripheral blood circ.)
 - (VEINS
 - arteriovenous anastomosis, eff.of reflex adaptation in peripheral blood circ.)

PERROVSKY, I.; FEJFAR, Z.; FEJFAROVA, M.; MALA, V.; WIDIMSKY, J.; LINHART, J.

Effort tests in adolescents. *Pediat. listy*, Praha 9 no.5:276-280 Sept-Oct 54.

1. Ustav pro choroby obehu krevniho, Praha-Krc, reditel. prof. MUDr. K. Weber

(CARDIOVASCULAR SYSTEM, function tests
effort test in adolescents)

PREROVSKY, I.; LINHART, J.; FEJFAR, Z.

Reflex regulation of peripheral circulation in man. I. Role of veins in regulation of blood supply to muscles and skin. Cesk. fysiolog. 4 no.2:163-170 May 55.

1. Ustav pro choroby obehu krevniho, Praha.

(BLOOD PRESSURE, physiology

eff. of increase venous pressure on vasomotor reactions in musc. & skin)

(MUSCLES, blood supply,

vasomotor reactions in increased venous pressure)

(SKIN, blood supply,

vasomotor reactions in increased venous pressure)

LINHART, J.; PREROVSKY, I.; FEJFAR, Z.; Za technike spoluprace Marie Matouskove

Reflex control of peripheral blood circulation in man. II.
Active cholinergic dilatation of the muscular vessels. Cesk.
fysiol. 5 no.2:209-217 23 June 56.

1. Ustav pro choroby obehu krevniho, Praha.
(SYMPATHOLYTICS, effects,
dibenamine on peripheral musc. vasodilat. (Cz))
(ATROPINE, effects,
on vasodilat. in peripheral musc. (Cz))
(PROCAINE, effects,
on vasodilat. in peripheral musc. (Cz))
(BLOOD VESSELS, effect of drugs on,
atropine, dibenamine & procaine, vasomotor reactions in
peripheral musc. (Cz))

LINHART, J.; PREROVSKY, I.

Hemodynamic and metabolic changes following arterial occlusion. *Cesk. fysiolog.* 7 no.5:502-503 Sept 58.

1. Ustav chorob obehu krevniho, Praha.

(ARTERIES, ~~physiol.~~ *physiol.*)

eff. of occlusion on metab. & hemodynamics (Cz))

PREROVSKY, I.; LINHART, J.; DEJDAR, R.; SVEJCAR, J.; KRUML, J.; VAVREJN, B.

Research on the primary varicose veins and chronic venous insufficiency.
Rev. czech. med. 8 no.3:171-178 '62.

1. Institute for Cardiovascular Research, Prague-Krc; Director;
Academician K. Wober.

(VARICOSE VEINS)

(VASCULAR DISEASES) (VEINS)

LINHART, J.; PREROVSKY, I.; DEJDAR, R.; VAVRIK, M.; GRAFNETTER, D.; DONNER, L.

Functional and biochemical changes in ischaemic disease of the lower extremities. Rev. czech. med. 8 no.3:145-151 '62.

1. Institute for Cardiovascular Research, Prague; Director: Academician
K. Weber Second Medical Clinic, Prague; Director: Prof. F. Herles.
(VASCULAR DISEASES)

DONNER, Ludvik; LINHART, Jiri; PREROVSKY, Igor

Fibrinolytic activity in patients with atherosclerosis. Acta univ. carol. [med.] no.7:845-852 '61.

1. II. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. MUDr. Fr. Herles Ustav chorob obehu krevniho v Praze, reditel akademik prof. MUDr. K. Weber.
(ARTERIOSCLEROSIS physiol) (FIBRINOLYSIS physiol)

PREROVSKY, IVAN.

FEJFAR, Zdenek; LINHART, Jiri; PREROVSKY, Ivan

Modification of orthostatic reaction during convalescence following myocardial infarction. Cas lek ce 93 no.16:425-433 Ap '54. (KRAL 3:7)

1. Ustav pro choroby obehu krevniho, reditel prof. MUDr Klement
Weber. (MYOCARDIAL INFARCT, physiology,
*orthostatic reaction during convalescence)

WIDIMSKY, J.; KASALICKY, J.; PREROVSKY, I.; DEJDAR, R.

The thromboembolic disease. Cas. lek. Cesk. 104 no.46:
1253-1263 19 N '65.

1. Ustav pro choroby obehu krevniho v Praze (prednosta
prof. dr. J. Brod, DrSc.).

LINHART, J.; PREROVSKY, I.

Local cholinergic vasodilatation in the isolated artery in dog. Cesk. fysiolog. 8 no.3:220-221 Apr 59.

1. Ustav pro choroby obehu krevniho, Praha. Predneseno na III. fysiologickych dnech v Brne dne 13. 1. 1959.

(ARTERIES, physiol.

local cholinergic dilat. of isolated artery (Cz))

PREROVSKY, I.; LINHART, J.; DEJDAR, R.

Functional examination of the veins of the lower extremities. Rozhl.
chir. 40 no.12:786-795 '61.

1. Ustav pro choroby obehu krevniho v Praze, reditel akademik Kl.
Weber.

(LEG blood supply)

LINHART, Jiri; PREROVSKY, Ivo

Reflex vasodilation by heat, an examination method of skin vessels
in vascular diseases of the extremities. Cas.lek.cesk 100 no.21:
633-639 26 My '61.

1. Ustav pro choroby obehu krevniho v Praze, reditel akademik Klement
Weber.

(VASCULAR DISEASES, PERIPHERAL diag)
(SKIN blood supply) (REFLEX)

PREROVSKY, I.; LINHART, J.

Pulsation volume and the outflow. Cesk. fysiolo. 8 no.3:239-240 Apr 59.

1. Ustav pro choroby obehu krvniho, Praha. Predneseno na III. fysiolo-
gickych dnech v Brne dne 13. 1. 1959.
(BLOOD VOLUME, determ.
(Cz))

PREROVSKY, J.; LINHART, J.; DEJDAR, R.; VAVRIK, M.; GRAFNETTER, D.

Ischemic disease of the lower extremities in young adults
(thromboangiitis obliterans or atherosclerosis obliterans?).
Cas.lek.cesk.99 no.42:1339-1345 14 0 '60.

1. Ustav pro choroby obehu krevniho v Praze, reditel prof.
MUDr. Kl. Weber.

(THROMBOANGIITIS OBLITERANS diag)
(ARTERIOSCLEROSIS diag)

PŘEROVSKÝ, K., Prof. Dr.

Czechoslovakia

Research Institute for Physiatry, Balneology and
Climatology -- Prague (Výzkumný ústav pro
fyziatrii, balneologii a klimatologii -- Praha)

Prague, Fysiatrický Věstník, No 5, 1962, pp 249-252

"Ten Years of Research and Practical Work in Physiatry
and Balneology."

PREROVSKY, K.

CZECHOSLOVAKIA

Prof. MUDr.

Not given

Prague, Prakticky Lekar, No. 18, 1962, pp 813-815

"Ten Years of Research and Practice in Physiatry and
Balneology"

Country: Czechoslovakia

Academic Degree:

Affiliation:

Source: Prague, Rozhledy v Ekonomice a v Mirovych Vztazich, No 4, Apr 61, pp 332-333

Data: "Resolutions of the Symposium on the Problems of Obesity, Held in Poděbrady on 27 [March] thru 2 April 1960."

PREROVSKY, K. (Praha-Liben, Valcikova 1.)

Exercise physiatric therapy. Cas. lek. cesk, 97 no.23-24:753-754 6 June 58.

1. Vyzkumny ustav balneologicky v Praze VIII - Bulovka, prednosta prof. dr. Karel Prerovsky.

(EXERCISE THERAPY,
in Czech. (Cz))
(PHYSICAL THERAPY,
same)

PREROVSKY, K.

On Iontophoresis. Prakt. lek., Praha 33 no.11:247-249 5 June 1953.
(CJML 25:1)

PREROVSKY, Karel

Ceskoslovenske lazne. (Czechoslovak Resorts. 1st ed. illus.) Prague, S3dN, 1957. 214 p.

Information on all Czechoslovak resorts with many illustrations. Historical data on their development, especially during the last 10 Years; natural springs and principles of the therapy in resorts; climatic therapy in Czechoslovakia. The second and third part deal with individual resorts, and the fourth part describes places where mineral water is bottled and other product are made from mineral waters. Included is a map of the Czechoslovak springs and a survey of the chemical composition of the Czechoslovak mineral waters.

Bibliograficky katalog, CSR, Ceske knihy, No. 34. 1 Oct 57. p. 740.

PREROVSKY, Karel, prof. MUDr

Ten years of the Czech balneology after liberation. Fysiat.vest.,
Praha 33 no.3:81-82 June 55.
(BALNEOLOGY, history
in Czech.)

PREROVSKY, K;KUBICKA, J;SANTROCH, J.

Effect of intravenous injections of novocaine in chronic
arthritis. Cas. lek. cesk. 89 no. 38:1045-1051 22 Sept. 1950.
(CJML 20:1)

1. Of the Rheumatic Department (Head--Prof. K. Prerovski, M. D.)
of the Hospital in Bulovce.

Excerpta Medica 1/4 sec 17 Apr 55 Pub. Health, Social Medicine & etc.

1619. PREROVSKÝ K. Praha. *Obvodový systém ve zdravotnictví a ochranný léčebný režim ve vztahu k fysiatrii a lázeňskému léčení. The area system in the health service and the protective therapeutic regime in relation to physiatry and balneology FYSIAT. VESTN. (Praha) 1954, 32/2 (33-36)

The area physician gives medical assistance where needed, seeks out persons whose health is menaced, and improves the sanitary standards of all those under his care. The area system favours wide use of ultraviolet irradiation and of other physical methods of improving resistance, and makes it possible to give specialist care, as well as orthopaedic treatment and spa cures to those who stand in need of them. The protective therapeutic regime is an exactly arranged programme for the patient to follow in the spa. In composing it, two factors should be taken into consideration: the balneological treatment and the arrangement of the milieu. One should only prescribe a regime for the first half of the patient's stay in the spa: for the second a new scheme should be given, in accordance with the patient's reactions. The number of the patients should not be too high if one whirlpool bath is used by 30 patients one after the other, as occurs now and then, hygiene suffers. No work should be done by the patient during his treatment, because the treatment itself already demands much of his strength. A detailed prescription should be given as regards diet, therapeutic gymnastics and suitable amusement.

Wolf - Prague

PREROVSKY, K.

PREROVSKY K.

Otazka pathogenesy a terapie chronickyh arthritid ve svetle novych objevu. /Pathogenesis and therapy of chronic arthritis in relation to new discoveries/ Cas. lek. cesk. 89:16 21 Apr 50 p. 443-7.

1. Of the Rheumatic Department of the Hospital in Bulovoe.

CML Vol. 19, No. 2 Aug. 1950

KUBICKA; PREROVSKY, K.

Treatment of chronic articular rheumatism with adrenal cortex
extracts. Prakt. lek., Praha 31 no.17:382-383 5 Sep 1951.
(CIML 21:1)

1. Of the Rheumatological Department (Head -- Prof. K.
Prerovsky, M.D.) of the State District Hospital, Bulovka.

ALLERGOLOGY

CZECHOSLOVAKIA UDC 616.28-008.55-039.31-02--97.2(613.262)

BENES, J.; PREROVSKY, K.; REHUREK, L.; KASE, F.; Internal Department Krajska Hospital (Interni Odd. Krajske Nemocnice), Usti nad Labem, Head (Vedouci) Dr O. DUB; Otolaryngological Dept. Krajska Hospital (Otolaryngologicke Odd. Krajske Nemocnice) Usti nad Labem, Head (Vedouci) Dr K. ZEMAN; Krajska Transfusion Station (Transfuzni Stanice), Usti nad Labem, Head (Vedouci) Dr J. MATOUSEK.

"Food Allergy to Garlic and Signs of Meniere's Disease."

Prague, Casopis Lekarů Ceskych, Vol 105, No 31, 9 Aug 66, pp 825 - 827

Abstract [Authors' English summary modified]: A case of Meniere's disease is described; the classical manifestation of this disease is food allergy to garlic. The allergic basis was confirmed by the leukopenic, thrombopenic, and repeated exposure test. 2 Figures, 5 Western, 2 Czech references. (Manuscript received Jan 66).

PREROVSKY, K., prof. dr.

The present status of psychiatrics in our contemporary public health. Fysiat. vestn. 43 no.3:129-130 Je'65.

PREROVSKY, K., Prof. MUDr

ABC of physical therapy. Prakt. lek., Praha 34 no.19:440-444
5 Oct 54.

(PHYSICAL THERAPY
basic principles)

~~FREROVSKY, KAREL.~~

Ceskoslovenske lazne. Karel Frerovsky a spolupracovníci. Praha, Státní zdravotnické
mákl. 1957. 214 p. (Czechoslovak health resorts. 1st ed. illus., table)

SO: Monthly Index of East European Accessions (EEA) LC, Vol. 7, no. 1 Jan 1958

PREEROVSKY, K.

Pathogenesis and therapy of chronic arthritis in relation to new discoveries. Cas.lek.cesk. 89 no.16:443-447 21 Apr '50. (CML 19:2)

1. Of the Rheumatic Department of the Hospital in Bulovce.

FREROVSKY, Karel, MUDr, Prof.

Problem of chilling and body resistance. Cas. lek. cesk. 93 no.40-
41:1143-1146 8 Oct 54.

(COLD, eff.

eff. of chilling on resist. to infect.)

(INFECTION

eff. of chilling on resist. to)

PREROVSKY, Karel

PREROVSKY, Karel, Prof. MUDr.

Arthritis deformans. Prakt. lek., Praha 34 no.15-16:337-339 5 Aug

54.

(ARTHRITIS, RHEUMATOID
*diag. & ther.)

(PREROVSKY, K.)
SURNAME, Given Names

Country: Czechoslovakia

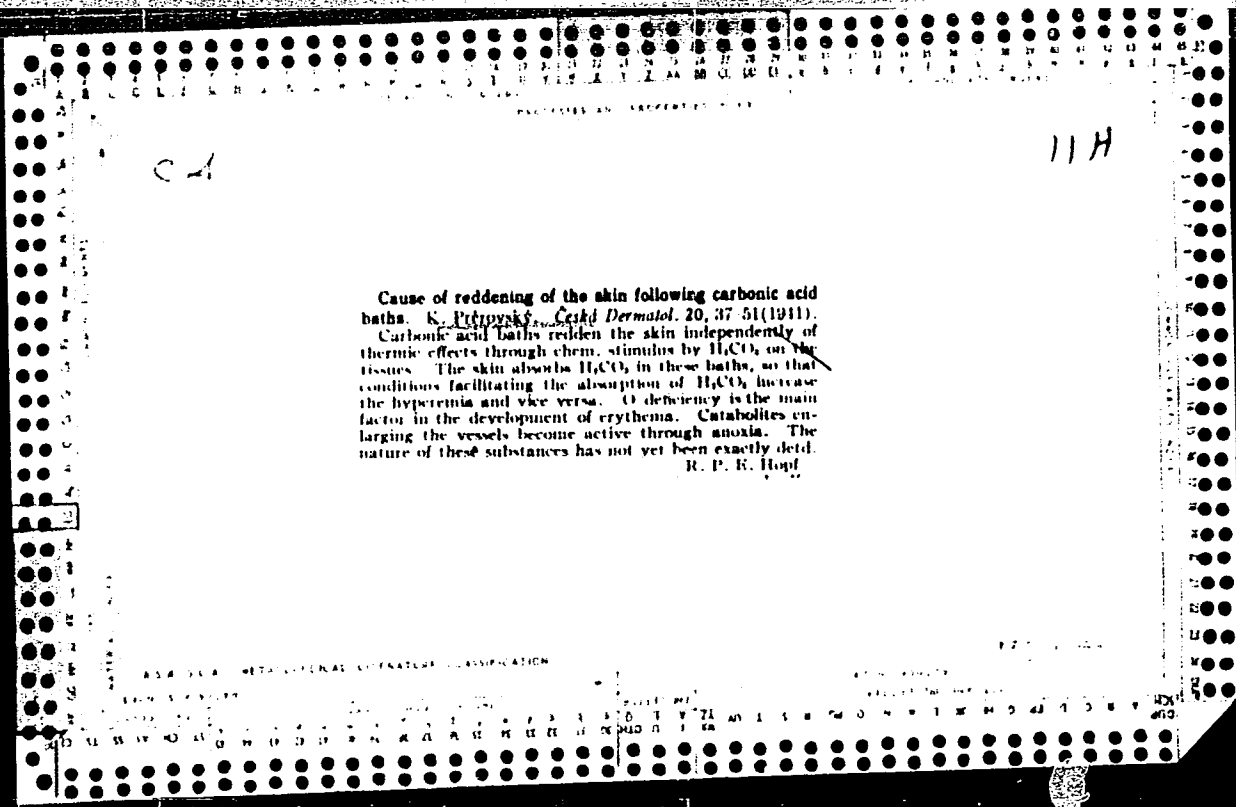
Academic Degrees: Prof, MD

Affiliation: Chairman /predseda/ Section on Psychiatrias, Czechoslovak Medical Association
"Jan Evangelista Purkyně" /Fyziatrické sekce Československé lékařské
společnosti J.E. Purkyně

Source: Prague, Fyziatrický Věstník, Vol 39, No 5, Oct 1961; pp 310-312

Data: "Memorandum" (Resolution of Section meeting)

GPO 981643



POLAND

KWILTKOWSKI, T., PRES, J. and KWOLICZEK, A., of the Chair of Internal Diseases, Veterinary Department (Katedra Chrob Wewnetrznych Wyzd. Wet.), Higher School of Agriculture (WSR), Wroclaw. Prof. Dr. B. Gancarz, Head.

"Behavior of Certain Metabolites in the Blood of Young Cattle Fed on Large Quantities of Carbohydrates"

Lublin, Medycyna Weterynaryjna, Vol 22, No 6, 1966, pp 366-369.

Abstract: The effects of feeding young black-white lowland bullocks on large amounts of carbohydrates and fermented corn were studied. The group fed on potatoes exhibited a greater amylolytic activity than the group fed on corn silage. The potato-fed group had a higher and constant blood sugar level. It also exhibited a higher blood and muscle protein levels, greater weight increase and somewhat better fodder utilization. Contains 4 Tables, 1 Figure and 17 references (5 Polish, 9 Western, 1 Czechoslovak and 2 German-language).

1/1

PIRES, Jerry, Hilda, Sofia

Effect of a varying energy, protein ratio on weight gain, food utilization, and carcass quality of broilers. Zesz probl. post nauk roln. no.41:165-177 '69.

1. Katedra Zywienia Zwierzat, Wyzsza Szkola Rolnicza, Wroclaw.
Kierownik: prof. dr W. Ruszczyk.

FRITZ, Zofia; PRES, Jerzy

Methionine and lysine admixtures in feed rations with reduced animal protein content in broiler feeding. Zesz probl post nauk roln no.54: 127-130 '64.

1. Department of Animal Feeding of the School of Agriculture, Wroclaw. Head of Department: [prof. dr] Zygmunt Ruszczyk.

SVITTSOV, A.A.; PRESAYZEN, I.V.

Shortening building time by a new organization of the supply of material and equipment. Trudy MIEI no.15:311-314 '61.
(MIRA 14:12)

1. Upravlyayushchiy trestom No.9 Ministerstva stroitel'stva BSSR (for Svittsov).
2. Nachal'nik proizvodstvennogo otdela tresta No.9 Ministerstva stroitel'stva BSSR (for Presayzen).
(Construction industry)

PRESAYZEN, P.Z.

Experience in organizing urological care in towns and districts of Leningrad Province. Urologia 21 no.1:53-55 Ja-Mr '56. (MIRA 9:12)

1. Iz urologicheskogo otdeleniya (zav. - P.Z.Presayzen) Leningradskoy oblastnoy klinicheskoy bol'nitsy (glavnyyvrach A.P.Yegorova)
(UROLOGY
urol. care in Leningrad district, in Russia)

PRESAYZEN, P. Z.

Presayzen, P. Z. "Cases of retarded migration of foreign matter into the bladder, "
Trudy Leningr. obl. gosspitalya dlya lecheniya invalidov Stokhestv. voyny, Leningrad,
1948, p. 110-12

SO: U-3850, 16 June 53, (Letonsis 'Zhurnal 'nykh Statey, No. 5, 1949)

PRESORF, Z.

Theory of systems of singular integral equations with a degenerate
symbolic matrix. Part 1. Vest. LGU 20 no.19:58-73 '65.

(MIRA 18:10)

FRES DORF, Z.

Operators admitting of unbounded regularization. Vest. LCU 20 no.13:
59-67 '65. (MIRA 18:7)

PRESENT, I.I.

Substance and factors of heredity. Trudy Inst. gen. no.29:
19-39 '62. (MIRA 16:7)

(Heredity)

PRESENT, I.I.

Lenin's theory of two evolutionary concepts and the biological
science. Trudy Inst. gen. no.28:5-23 '61. (MIRA 14:11)
(BIOLOGY—PHILOSOPHY)
(LENIN, VLADIMIR IL'ICH, 1870-1924)

LYSENKO, T.D., akademik; PRESENT, I.I., akademik

Biology cannot be reduced to chemistry and physics. *Nauka i
zhizn'* 29 no.4:11 Ap '62. (MIRA 15:7)

1. Vsesoyuznaya Akademiya sel'skokhozyaystvennykh nauk imeni
Lenina (for Present). (BIOLOGY)

PRESENT, I.I.

Historicity of the nature of interrelationship of developmental
stages. Trudy Inst. gen. no. 28:44-56 '61. (MIRA 14:11)
(ONTOGNEY (BOTANY))

15

CA

RELATIONSHIP BETWEEN THE MECHANICAL COMPOSITION OF
SOIL AND THE EXTENT OF TERTURE IN THE SOIL. J. A. FRESCOTT,
J. K. TAYLOR AND T. J. MARSHALL. *Trans. 1st Comm.
Intern. Soc. Soil Sci.* 1934, 143-53.—A system of correla-
tion is examd. B. C. A.

COMMON ELEMENTS

MATERIALS MOLE

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

EXONI KOWIOW

EXONI KOWIOW

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	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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PRESEREN, A.

Problems of combustion in the SM furnaces. p. 351.
(Nova Proizvodnja. Vol. 7, no. 6, Feb. 1957, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) LE, Vol. 6, no. 7, July 1957, Uncl.

PREŠEREN, LOIZE

7-4E2C

7 18

Behavior of sulfur in the Siemens-Martin furnace.
 Loize Prešeren, Steel Factory, Isenice, Yugoslavia
Novi Beograd 5, 193-200 (1954). The desulfurization of
 steel in the Siemens-Martin furnace which is a function of
 the S in the loading balance, especially the S in gas, was
 discussed. When μ_0 is greater than μ_{max} , desulfurization is
 possible, but not in the opposite case. Good desulfurization
 is possible if a good loading (0.8-1% of S and a gas with a max.
 6 g. of S per cu.m.) is present. The load quality can be
 deviated when gas is adequate. In this case partial pro-
 longing of refining time and an increase of lime consumption
 is needed. When adequate quantities of S are involved in
 gas, much greater difficulties of desulfurization occur.
 Coal with a max. of 0.7% of S is necessary if the normal
 time of refining is demanded. G. Mucević

RM RB MT

FRANJIC, L.

behavior of mother in the U. S. (see Exhibit 1, U. S.,
no. 374, Sept. 1974. Ljubljana, Yugoslavia)

SO: Monthly List of East Europ. Newspapers, (1971), 12, Vol. 4, no. 4,
Apr 1975, Uncl.

PRESERN, A.

American steelworks. p. 34.

NOVA PROIZVODNJA. (Zveza drustev inzenirjev in tehnikov LPS) Ljubljana, Yugoslavia, Vol. 10, no. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 6, no. 6, June 1959.

Uncl.

PODKOLZIN, P.S., kandidat tekhnicheskikh nauk; POPOV, A.A., inzhener;
FRESHMAN, I.B., inzhener; DANCHICH, V.V., inzhener; SEMIZ, M.D.,
otvetstvennyy redaktor; GORITSKIY, A.V., redaktor; SHPAK, Ye.G.,
tekhnicheskiy redaktor; PROZOROVSKAYA, V.L., tekhnicheskiy re-
daktor.

[Blasthole drill] Instrument dlia burenia shpurov. Moskva, Ugle-
tekhizdat, 1953. 163 p. (MLRA 7:8)
(Boring machinery)

PRESHMAN, I. B.

KRSTOSHEVSKIY, L.S.; DANCHICH, V.V.; AVDIYENKO, T.G.; ARKHANGEL'SKIY, A.F.;
GAK, A.M.; YEPIFANTSEV, Yu.P.; ZELINSKIY, V.M.; IVANOV, P.S.; IVASHCHENKO,
P.R.; KALININA, M.D.; KRAVCHENKO, A.G.; KOTLYAROVA, A.V.; KRUGLYAKOVA,
M.D.; LEVIKOV, I.I.; LIBKIND, R.I.; NIKOLAYEVA, H.A.; NAUMENKO, V.F.;
PRESHMAN, I.B.; PRISYAZHNIKOV, V.S.; POBRDINSKAYA, L.P.; POKALYUKOV,
S.N.; POPOV, A.A.; SOLOMENTSEV, M.N.; TARASOV, I.V.; FILONENKO, A.S.;
SHISHOV, Ye.L.; SHRAYMAN, L.I.; YAKUSHIN, N.P.; ZVORYKINA, L.N., red.
izd-va; LOMILINA, L.N., tekhn.red.

[Horizontal mining in foreign countries] Provedenie gorizontal'nykh
vyrabotok za rubezhom. Moskva, Ugletekhizdat, 1958. 342 p. (MIRA 12:4)

1. Kharkov. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnogo stroitel'stva.
(Mining engineering)

Przygoda
KRYNSKI, S.; BOROWSKI, B.; PREIS, M.; LALKO, J.

Investigations on sensitivity of Staphylococcus to sulfonamides.
Acta Poloniae pharm. 11 Suppl.:61-62 1955.

1. Zakład Mikrobiologii Akademii Medycznej w Gdansk.
(MICROCOCCUS PYOGENES, effect of drugs on,
sulfonamides, sensitivity)
(SULFONAMIDES, effects,
on Micrococcus pyogenes, sensitivity)

PREISLER, Eligiusz

Function tests in evaluation of efficiency of the organism.
Acta physiol.polon. 6 no.1:116-117 1955.

1. Z Poradni Sportowo-Lekarskiej II Kliniki Chorob Wewnętrznych
A.M. oraz Zakładu Kontroli Lekarskiej WSMF w Poznaniu. Kierownik:
Kliniki: prof. dr J. Roguski.
(PHYSICAL EFFICIENCY,
determ.)

PRESEBN, A.

Deoxidation with aluminum.

p. 158
Vol. 6, no. 3, Aug. 1955
NOVA PROIZVODNJA
Ljubljana

So: East European Accessions List (EEAL), LC. VOL. 5, no. 2, Feb. 1956

PRESHINA, L. A. ; Tronov, B. V.

"The Effect of Various Catalysts on the Direction and ~~VELOCITY~~ Velocity of Bromination of Aromatic Compounds"
Soobshch. o Nauch. Rabotakh Vses. Khim. O-va im, Mendeleyeva, No 2, 1953, 24-25

Investigated the bromination of benzene, toluene, chlorobenzene, and nitrobenzene in the presence of metals, bromides, and certain other compounds. The best catalysts for the bromination of benzene were Fe, Zn, Ni, Cu, Hg, Pb, Mg, Cd, and Te. Toluene underwent bromination at a faster rate than benzene with the same catalysts. Chlorobenzene reacted slower than benzene except when catalyzed with Te. Nitrobenzene underwent bromination very slowly with the best catalysts being Te, S, and Al. The best bromide catalysts were found to be FeBr₃, ZnBr₂, and SbBr₃. Bromination of benzene in the presence of Fe, Zn, Hg, Bi, Te, and HBr resulted only in substitution, while in the presence of water and acetic acid, addition took place. (RZhKhim, No 3, 1955)

SO? Sum-No 845, 7 Mar 1956

FRESHMAN, I.B.

Experiences in electric rotary drilling of holes with side
flushing. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.
i tekh.inform. 16 no.11:16-17 '63. (MIRA 16:11)

FRESHMAN, I.B., starshiy nauchnyy sotrudnik

Water supply of workings in mines under construction. Bezop.truda
v prom. 5 no.9:15-16 S '61. (MIRA 14:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut organizatsii i
mekhanizatsii shakhtnogo stroitel'stva.
(Mining engineering--Water supply)

PODKOLZIN, Pavel Semenovich, kand. tekhn. nauk; POPOV, Aleksey Aleksandrovich, inzh.; PRESHMAN, Iosif Bentsionovich, inzh.; DANCHICH, Valeriy Valerianovich, inzh; POCHENKOV, A.K., otv. red.; KOSTON'YAN, A.Ya., red.izd-va; MAKSIMOVA, V.V., tekhn. red.

[Machines for drilling holes] Mashiny dlia bureniia shpu-rov i skvazhin. Moskva, Gosgortekhzdat, 1963. 155 p.
(MIRA 16:8)

(Boring machinery)

FRESHMAN, I.B., inzh.

Modernization of the MSR-75 machine for reconditioning bore
rods. Svar. proizv. no.9:35-36 5 161. (MIRA 17.12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnogo stroitel'stva.

PRESHMAN, I.B., starshiy nauchnyy sotrudnik

Ways of improving the availability condition and maintenance of boring machinery in mines under construction. Ugol' Ukr. 3 no.11:17-18 N '59.
(MIRA 13:3)

1.Ukrainskiy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva.
(Boring machinery)

PARESHMAN, JOSIF BENTSIONOVICH

PODKOLZIN, Pavel Semenovich, kand. tekhn. nauk; POPOV, Aleksey Aleksandrovich, inzh.; PRESHMAN, Josif Bentsionovich, inzh.; DANCHICH, Valeriy Valerianovich, inzh.; PAVLOV, K.V., otvetstvennyy red.; ZVORYKINA, L.N., red. izd-va; SABITOV, A., tekhn. red.

[Machines and tools for drilling blastholes] Mashiny i instrument dlia burenia shpurov. Moskva, Ugletekhizdat, 1958. 176 p.
(Boring machinery) (MIRA 11:8)

ALEYNIKOV, N.A.; PRESICH, D.T.

Industrial use of flotation reagents in apatite flotation
from apatite-nepheline ores. Obog. rud. 2 no.4:32-37 '57.

(MIRA 11:8)

(Flotation) (Apatite)

PEKELIS, G.B., dotsent; KASATKIN, I.I.; ARONOV, I.Z., starshiy nauchnyy sotrudnik; PRESICH, G.A.; SOLODOVNIKOVA, Ye.N.; VINIK, I.A.; FUKSON, F.I.; LAGUNOVA, V.D., inzh.-khimik

Experience in the application of contact water heating.
Tekst. prom. 25 no.9:71-76 S '65. (MIRA 18:10)

1. Belorusskiy politekhnicheskiy institut (for Pekelis).
2. Glavnyy spetsialist Gosudarstvennogo komiteta Soveta Ministrov BSSR po koordinatsii nauchno-issledovatel'skikh rabot (for Kasatkin).
3. Nauchno-issledovatel'skiy institut sanitarnoy tekhniki UkrSSR (for Aronov).
4. Starshiy inzh. Nauchno-issledovatel'skogo instituta sanitarnoy tekhniki UkrSSR (for Presich, Solodovnikova).
5. Rukovoditel' gruppy Belpromproyekta (for Vinik).
6. Nachal'nik kotel'noy Minskogo kamvol'nogo kombinata (for Fukson).
7. Minskiy kamvol'nyy kombinat (for Lagunova).

PRESILKA, Eligiusz

Studies on regulating action of the cerebral cortex on electrocardiographic curve. Acta physiol Pol 5 no.1:71-82 '54. (REAL 3:7)

1. Z Działu Wewnętrznego Wojewódzkiej Przychodni Sportowo-Lekarskiej przy II Klinice Chorob Wewnętrznych Akademii Medycznej w Poznaniu.

(CEREBRAL CORTEX, physiology,

*regulation of heart funct., ECG)

(HEART, physiology,

*regulation by cerebral cortex, ECG)

ROBIT, F.

How Lakihegy could transmit during a storm.

p. 27 (RADIOTECHNIKA) Budapest, Hungary Vol. 7, No. 1, Mar. 1957.

SO: Monthly Index of East European Accessions (MEMI) Vol. 6, No. 11 November 1957.

ATANASOV, A. N., PRESKOVSKA, V. V.

Primary ores containing anglesites in the Madzharovo deposit
(northeastern Rhodope Mountains, Bulgaria). Geol. rad. zhestorozh.
no. 4:110-113 J1-Ag '60. (MIRA 13:8)

1. Narodnaya Respublika Bolgarii, Sofiyskiy gosudarstvennyy
universitet.

(Rhodope Mountains (Bulgaria)--Anglesite)

PESKOVATSKII, S.A.

35095

S/165/62/007/001/003/004
0299/D302

24.7/00 (1454, 1153, 1160)

AUTHORS: ~~Pveskovats'kyy, S.A., Chernets', A.M., Postohvard, H.I.,~~
Sheyina, T.M., and Oliynyk, I.M.

TITLE: growing of lanthanum ethyl sulfate single crystals with
gadolinium- and cerium ethyl sulfate impurities and
some of their physical properties

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 1, 1962,
22 - 29

TEXT: The method of preparation, growing technique and measurement
of the dielectrical constants of lanthanum ethyl-sulfate with gado-
linium- and cerium ethyl-sulfate impurities, is described. These cry-
stals are paramagnetic substances by means of which ultra-high fre-
quencies can be amplified. The salts of the rare-earth elements of
ethylsulfuric acid were prepared by mixing equivalent amounts of the
rare-earth element sulfate and barium ethylsulfate in a solution. The
single crystals were grown by gradually cooling the saturated solu-
tion, over a period of 10 - 12 days; the crystals were 15 - 20 mm.

Card 1/3

Growing of lanthanum ethyl sulfate ...

S/185/62/007/101/105/014
D299/D302

long and 12 - 15 mm thick. It is important to properly select the rate of temperature decrease, as at high rates an opaque solution is formed and the crystal becomes inhomogeneous. The shape of the crystals depends on the concentration of the solution; thus, some of the crystals were hexagonal prisms and (with higher gadolinium-ethyl-sulfate concentration) others were hexagonal double-pyramids. The crystals grown from pure solutions were stable in air and in a vacuum, during repeated cooling from room temperature to that of liquid helium, followed by heating to the original temperature. The dielectric constants (permittivity ϵ' and the tangens of the dielectric-loss angle $\text{tg } \delta = \epsilon''/\epsilon'$) were measured at a frequency f of 9000 Mc, over a temperature range of 290 - 4.2°K. In the literature, no such data were previously given. The method of measurement was based on the perturbation of the resonator through introducing small-size specimens into its high-frequency field. This permitted measuring at each temperature point the perturbed and unperturbed values of the natural frequency and Q-factor of the resonator by simply moving the specimen from the region with maximum field-strength to that where the field practically vanishes. The permittivity ϵ' va-

Card 2/3

Growing of lanthanum ethyl sulfate ...

S/185/62/007/001/ 03/014
D299/D302

ried from 3.4 (at 20°C) to 2.7 (at liquid-helium temperature); the measurement error did not exceed 3%. The temperature-dependence curve of $\text{tg } \delta$ showed that $\text{tg } \delta$ decreases fairly rapidly with temperature, from $8 \cdot 10^2$ (at room temperature) to $1.5 - 2 \cdot 10^{-3}$ (at liquid-helium temperature). There are 5 figures and 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc (including 1 translation). The references to the English-language publications read as follows: H.V. De Grass, E.O. Schulz-Dubois, H.E.D. Scovil, Bell Syst. Tech. J., 38, 305, 1959; J.R. Singer, Ph.D., "Lasers", NewYork, London, 1959.

ASSOCIATION: Instytut radiofizyki ta elektroniki AN URSR (Institute of Radiophysics and Electronics of the AS UkrRSR), Kharkiv

SUBMITTED: March 14, 1961

Card 3/3