PETRARCHOVA, L.

"The Mimon Machine-Tractor Station Gains the Confidence of Collective Farms and Expands the Task of Combines by 1,000 Hectares." p. 322.
(MECHANISACE ZEMEDELSTVI, Vol. 4, No. 17, Sept. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

PETRARCU, Paulina, ing.

Lubrication of the 2100 H.P. electric diesel locomotives and assimilation of the electric diesel engine lubricants. Rev cailer for 11 no.10:577-580 O '63.

1. Directia T/V.

DIMA, Mihai, prof.; COTRUT, Gh.V.; CARPOV, A.; META, E.; PETRARIU, I.; MAVRODIN, Maria

Purification, with ion exchangers, of the glucose solutions obtained by starch hydrolysis. Studii chim Iasi 12 no.1: 101-135 '61.

1. Academia R.P.R., Filiala Iasi, Institutul de chimie "P.Poni."
2. Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Chimie" -Filiala Iasi- (for Dima).

SCONDAC, I.; PETRARIU, I.; DIMA, Mihai, prof.

The novolak sulfonic cationites. Studii chim Iasi 12 no.2: 199-218 '61.

1. Academia R.P.R., Filiala Iasi, Institutul de chimie "P. Poni."
2. Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Chimie" (for Dima).

S/081/63/000/002/080/086
B117/B186

AUTHORS: Soondac, I., Petrariu, I., Dima, M.

TITLE: Cationites of the sulfo-novolac type

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1963, 549, abstract 2T168 (Studii si cercetări ştiinţ Acad. RPR Fil. Iaşi. Chim., v. 12, no. 2, 1961, 199-218 (Rum.; summaries in Russ. and French))

TEXT: Properties of cationites (CI) were studied as dependent on the conditions of sulfuration. Sulfuration of novolac (NL) was carried out with 96% H_2SO_4 at 160-220°C, at H_2SO_4 to NL ratios of 4:1, 3:1, 2:1 for 1-8 hrs. The properties of CI obtained depend on the presence of SO_3H and COOH groups. Part of the sulfur bound by the polymer is inactive. Volume capacity of CI is 4.27-2.54 mg-equiv./g. In the H_2SO_4 : NL ratios studied, a temperature rise from 160°C to 220°C and a prolonged time of process reduced the volume capacity of CI. Reduction of the H_2SO_4 : NL ratio from 4:1 to 2:1 does not

Card 1/2

CZECHOSLOVAKIA

PETRARIU, I; STAMBERG, J

Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague - (for both. Present address of Petrariu, Institul de Chimie "Petru Poni" al Academie R.P.R., Filiala Iasi, Rumania)

Prague, Collection of Czechoslovak Chemical Communications, No 2, February 1967, pp 798-807

"Chemical transformation of polymers. Part 5: The Hofmann degradation of polymeric quaternary ammonium bases."

SCONDAC, I.; PETRARIU, I.; DIMA, M.

Novolak-sulfonic cationites. Pts. 3-5. Studii chim Iasi 13 no.2:157-190 '62.

1. Academia R.P.R. Filiala Iasi, Institutul de chimie si fizica "P. Poni", Sectorul de fizico-chimia polielectrolitilor.

PETRARIU, I.; SCONDAC, I.; DIMA, Mihai, prof.

Recovering residual bisulfitic solutions from the manufacture of cellulose based on ion-exchanging resins. II. Studii chim Iasi 13 no.1:81-96 '62.

1. Academia R.P.R., Filiala Iasi, Institutul de chimie si fizica "Petru Poni", Sectia de chimie anorganica, Sectorul de fizico-chimia polielectrolitilor. 2. Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Chimie" - Filiala Iasi - (for Dima).

DIMA, Mihai, prof.; SCONDAC, I.; PETRARIU, I.

Structural units of sulfonovolak cationites. II. Studii chim Iasi 13 no.1:67-80 '62.

1. Academia R.P.R., Filiala Iasi, Institutul de chimie "Petru Poni", Iasi. 2. Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Chimie" - Filiala Iasi - (for Dima).

DIMA, M., prof.; MAVRODIN, Maria; PETRARIU, I.

Determining the exchange capacity of ion exchangers. Pt. 2. Exchange capacity of anion exchangers. Studii chim Iasi 11 no.2:337-350 '60.

1. Academia Republicii Populare Romine, Filiala Iasi, Institutul de chimie "Petru Poni." 2. Comitetul de redactie, "Studii si cercetari stiintifice, chimie" (Academia Republicii Populare Romine, Filiala Iasi)(for Dima).

(Ion exchange) (Anions)

DIMA, M., prof.; SCONDAC, I.; PETRARIU, I.

Some aspects of the synthesis of sulfonic cationites based on phenol, formaldehyde, and sulfuric acid. Studii chim Iasi 11 no.2:351-377 '60.

1. Academia Republicii Populare Romine, Filiala Iasi, Institutul de chimie "Petru Poni." 2. Comitetul de redactie, "Studii si cercetari stiintifice, chimie" (Academia Republicii Populare Romine, Filiala Iasi) (for Dima).

(Base-exchanging compounds)
(Phenol condensation products)

DIMA, M.; SCONDAC, I.; PETRARIU, I.

General considerations on novolac-sulfonic cation exchange resins. Rev chimie 7 no. 1: 151-160 '62.

1. "P. Poni" Institute of Chemistry of the Academy of the R. P. R., Iasi.

S/081/62/000/016/029/043
B168/B186

AUTHORS: Dima, M., Scondac, I., Petrariu, I.

TITLE: Synthesis of cationites from phenol, formaldehyde and sulfuric acid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1962, 526, abstract 16P112 (Studii şi cercetări ştiint. Acad. RPR Fil. Iaşi. Chim., v. 11, no. 2, 1960, 351-377 [Rum.; summaries in Russian and French])

TEXT: Of three alternative methods of producing cationites from phenol, formaldehyde and H_2SO_4 - through lacquer resin, through p-phenolsulfonic acid and through molded resin - the first is the most efficient, the total exchange capacity here being 3.8-4.3 mg/equiv/g. The respective values for the second and third methods are 1.9-2.7 mg/g and 1.0-2.6 kg/equiv/g. The cationites produced by the last method have good mechanical strength. With this method 6 operations only are required, as against 14 with the second method. [Abstracter's note: Complete translation.]

Card 1/1

DIMA, Mihai, prof.; COTRUT, Gh.V.; MAVRODIN, Maria; PETRARIU, I.; SCONDAC, I.

Behavior of some cation exchangers during the heat treatment of sugar-beet juice in the manufacture of sugar. Studii chemie Iasi 10 no.2:339-378 '59. (EEAI 10:1)

1. Membru, Comitetul de redactie, Studii si cercetari stiintifice, Chimie (for Dima)

(Sugar) (Heat) (Base-exchanging compounds)

PETRARU-HELLER, C.

COUNTRY : Rumania
CATEGORY : H-35
ABS. JOUR. : RZKhim., No. 1959, No. 73627

AUTHOR : Petraru-Heller, C.; Konnerth, C.
INST. :
TITLE : New Contribution to the Study of Causes of the Loss of Tanning Agents in Vegetable Tanning
ORIG. PUB. : Ind. usoara, 1958, 5, No 12, 453-459

ABSTRACT : A substantiation is presented of the causes, and a more precise determination is made of magnitude of the losses of tannins in vegetable tanning. Means are outlined for decreasing these losses.

CARD: 1/1

PETRARU-HELLER, C.; CONNERTH, C.

Some new contributions to the study of the causes bringing about losses of tannin in the course of vegetable tanning. p. 453.

INDUSTRIA USOARA. (Asociatia Stiintifica a Inginerilor si Technicienilor din Rominia si Departamentul Industriei Usoare din Ministerului Industriei Bunurilor de Consum) Bucuresti, Rumania. Vol. 5, no. 12, Dec. 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959.
UNCL

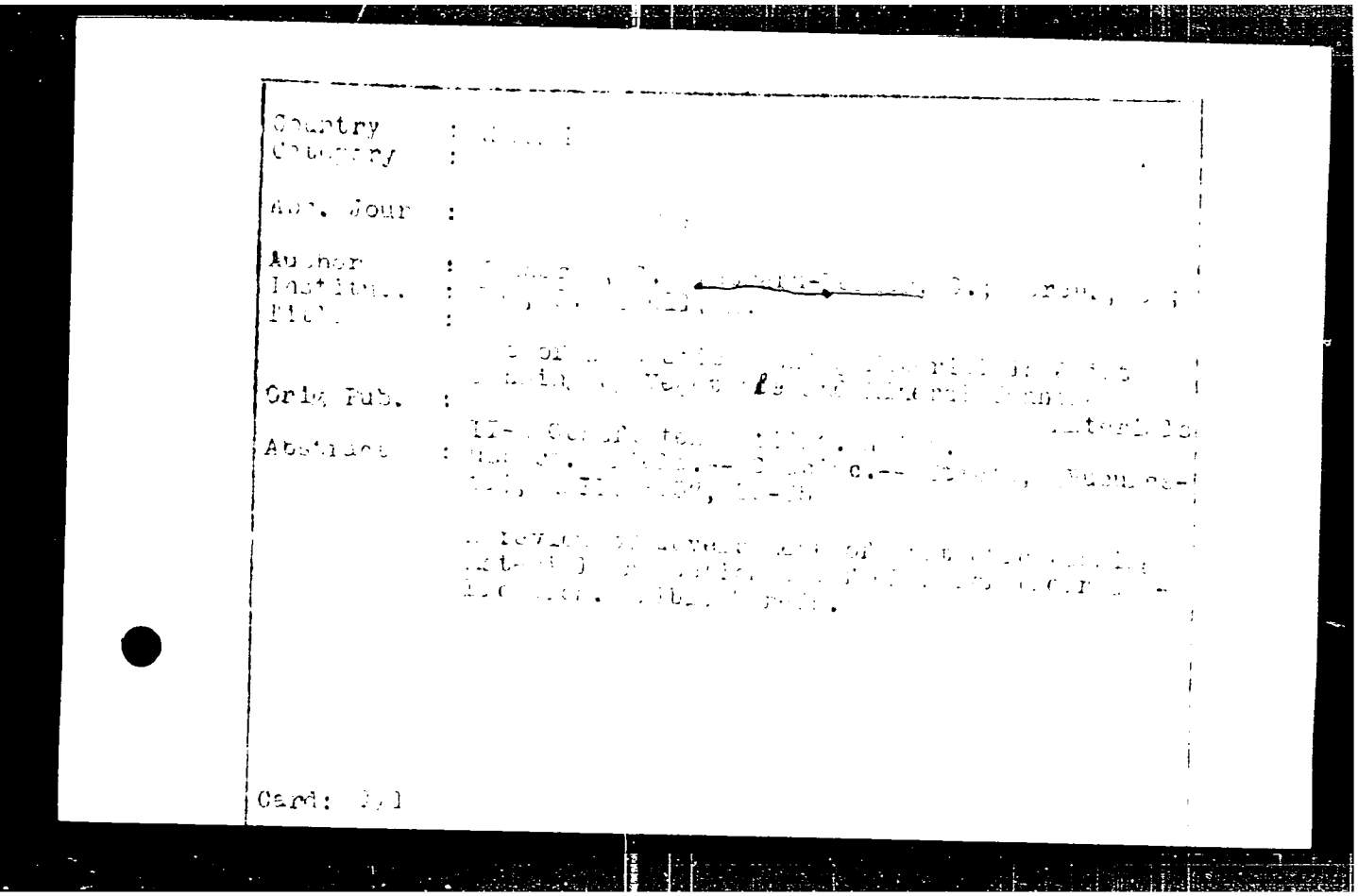
PETRARU-HELLER, C

TECHNOLOGY

PERIODICAL: INDUSTRIA USOARA, Vol. 5, no. 11, Nov. 1958

PETRARU-HELLER, C. Nature and causes of tannin losses in the course of vegetable tanning. p. 410

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April 1959, Unclass



Country :
Category :

Acc. Nbr :

Author :
Institution :
Title :

Orig. Pub. :

Abstract :

Card: 1/1

RUMANIA/Chemical Technology. Chemical Products and Their Applications. Leather. Furs. Gelatin. Tanning Materials. Industrial Proteins. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21962

Author : Petraru-Heller, Cornelia; Marcus, S.; Konnerth, C.

Inst : -

Title : Influence of Mineral Tanning on Absorption of Tanning Substances During Vegetable Tanning.

Orig Pub : II-a Consf. tehn.-stiint. a ind. usoare. Piele-Cauciuc-Sticla [Bucuresti], ASIT, 1957, 36-39

Abstract : It is shown that leather (L) which has first

Card : 1/4

H-173

H

RUMANIA/Chemical Technology. Chemical Products and Their Applications. Leather. Furs. Gelatin. Tanning Materials. Industrial Proteins.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21962

Yield of prepared T is respectively 65.5 and 68.3 percent. The following average physicomechanical indicators are obtained for leather tanned with fresh and spent juices: thickness 5.45 and 5.70 mm; length at break 16.00 and 18.00 percent; resistance limit to stretching 1.96 and 2.37 kg/mm^2; absorption of water in 2 and 24 hours - 26.00, 42.80 and 17.10, 33.00; wear (in percent converted to 5 mm thickness) 9.60 and 5.80; wear (in mm^3/cm^2) 48.00 and 25.50. To obtain L with increased

Card : 3/4

H-174

H

RUMANIA/Chemical Technology. Chemical Products and Their Applications. Leather. Furs. Gelatin. Tanning Materials. Industrial Proteins.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21963

Author : Konnerth, Carol; Petraru-Heller, Cornelia

Inst :

Title : Development of Crupon for Driving Belts by Combined Tanning under Tension.

Orig Pub : II-a Consf. tehn.-stiint. a ind. usoare. Piele-Cauciuc-Sticla. [Bucuresti] ASIT, 1957, 40-43

Abstract . A method was developed of combining tanning of crupon drawn on a special frame for driving belts. In addition, orientation of the

Card : 1/2

H-175

- RUMANIA/Chemical Technology. Chemical Products and Their Applications. Leather. Furs. Gelatin. Tanning Materials. Industrial Proteins.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21963

fibers of collagen in the direction of the tension in the tanning process significantly increases the stability of the tanned leather. An industrial test showed that the durability of a leather driving belt tanned by this method is 3 times higher than that of a leather belt of special vegetable or mineral tanning. A significant limit in stability during tension (more than 7 kg/mm^2) allows use of simple belts instead of double ones, and narrow instead of wide ones, which gives a great saving in material. -- G. Markus

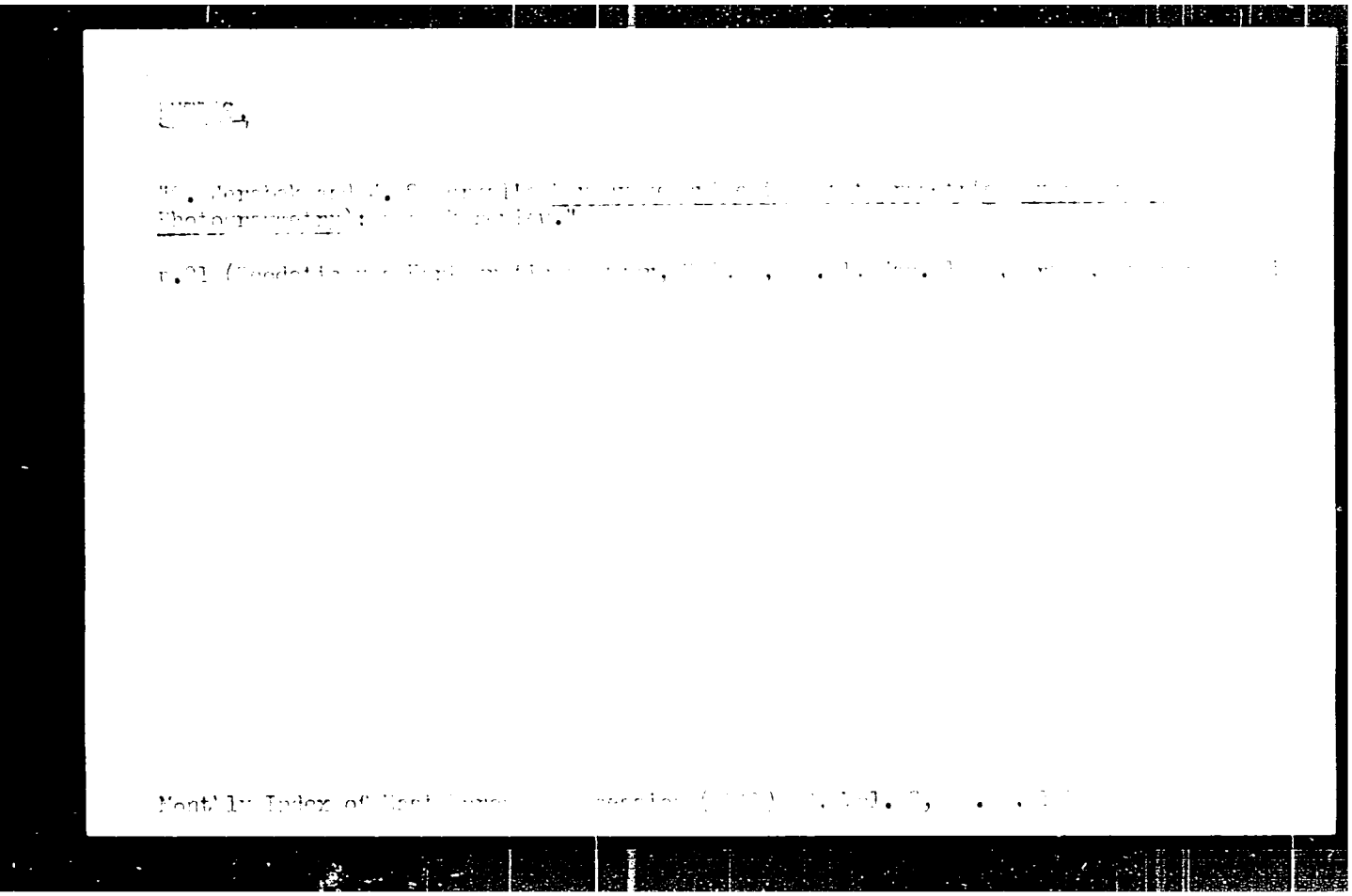
Card : 2/2

DIMA, M., prof.; COTRUT, Dh.V.; SCONDAC, I.; PETRARIU, I.

Utilization of the residual bisulfitic solutions of the cellulose Manufacture for the obtainment of ion-exchanging resins. I. Cationites based on lignosulfonic acids, obtained by the condensation with formaldehyde in acid medium. Studii chim Iasi 11 no.1:103-137 '60. (EEAI 10:3)

1. Comitetul de redactie, Studii si cercetari stiintifice, Chimie, Filiala Iasi (for Dima)

(Sulfites) (Cellulose) (Ion exchange)
(Gums and resins, synthetic) (Lignosulfonic acids)
(Formaldehyde)



GUGIUMAN, I.; PETRAS, Eug.

Role of atmosphere dynamics and geographical factors in determining air temperature conditions in the eastern part of Rumania. Anal St Jassy II 9:145-150 '63.

LOSONCZY, Gyorgy, dr.; PETRAS, Gyozo, dr.; HAIDECKER, Julia, dr.

Diagnostic and epidemiological data on Klebsiella infections.
Orv. hetil 105 no.10 456-459 10 Mr'64.

1. Fovarosi Laszlo Korhaz.

BANACH, J., inz.; LUPINEK, M., inz. dr.; PETRAS, I., inz.; TRUKSA, V.

A magnetron amplifier for the 3 cm band (A 48). Sbor vak elektrotech 4:5-15 '64.

1. Tesla, Pardubice (for Banach). 2. Research Institute of Vacuum Electrical Engineering, Prague (for all except Banach).

ACC NR: AP7003757 SOURCE CODE: CZ/0042/66/000/010/0749/0765

AUTHOR: Petras, J. (Engineer)

ORG: Department of Nuclear Physics and Technology, Electrical Engineering Faculty, SVST, Bratislava (Katedra jadrove fyziky a techniky elektrotechnickej fakulty SVST)

TITLE: Optical properties of the acceleration tube of a neutron generator

SOURCE: Elektrotechnicky casopis, no. 10, 1966, 749-765

TOPIC TAGS: ion acceleration, electrostatic accelerator, deuteron beam

ABSTRACT: A neutron generator has been developed at the Chair of Nuclear Physics and Technique of the Electrical Faculty at SVST. This generator differs from others of this type by the absence of an own focusing system. In an acceleration tube consisting of several cylindrical electrodes, a rotary-symmetrical electrostatic field is generated and a beam of deuterons emanating from a high-frequency ion source is accelerated to the required energy and simultaneously focused onto the target. The equation describing the trajectory of a charged particle is solved using parabolic interpolation of axial potential distribution. The results are used to solve for the trajectories of ions as they move in the acceleration tube. This solution is described in matrix form. It is shown that with ion acceleration on the order of intensity of 10^2 μamp, the generator design can be simplified in such a way that no pre-focusing is necessary. Orig. art. has: 30 formulas, 5 tables, and 8 figures.[JP]

SUB CODE: 20/ SUBM DATE: 14Aug65/ OTH REF: 006/ SOV REF: 002

Card 1/1 UDC: none

PETRAS, Jozef, inz. CSc.

International photogrammetry colloquy in Dresden. Geod kart obzor 10 no.5:123-124 My'64.

KRATOCHVIL, M.; CERNY, J.; SCHNIERER, M.; PETRAS, J.; SIMKOVIC, I.; SMRECANSKY, V.

Surgical anatomy of the outflow of the left heart. Bratisl. lek. listy 63 no.3:165-169 '63.

1. Laboratorium pre vyskum chirurgickej patofyziologie Lek. fak. Univ. Komenskeho v Bratislave, riaditel' doc. MUDr. M. Kratochvil.

(AORTIC VALVE) (ANATOMY) (HEART SURGERY) (AORTA) (CORONARY VESSELS)

PETRAS, J.

"Contribution to the theory of errors in land stereophogogrammetry."

GEODETICKY A KARTOGRAFICKY OBZOR, Praha, Czechoslovakia, Vol. 5, no. 5, May, 1959

Monthly List of EAST EUROPEAN ACCESSIONS INDEX (EEAI), LC, Vol. 8, No. 7, July, 1959

Unclassified

KRUL, Jaromir, MVDr.; PETRAS, Karel, promovany veterinarni lekar

Changes in organs and tissues of X-irradiated chickens. 3. Changes in the liver and spleen after a dose of 500 r and a dose of oxytetracycline given the 30th day following the irradiation. Veterinarni medicina 6 no.10:781-788 O '61.

1. Katedra pro patologickou morfologii a fyziologii, veterinarni fakulta Vysoke skoly zemedelske, Brno.

PETRAS, KAREL

SURNAME, Given Names

(3)

Country: Czechoslovakia

Academic Degrees:

Affiliation: Department of Pathological Morphology and Physiology of the Veterinary Faculty, Graduate School of Agriculture /Katedra pro patologickou morfologii a fyziologii veterinarni fakulty VSZ Vysoka Skola Zemedelska/ Brno; Head /vedouci/ Academician V. JELINEK

Source: Prague, Veterinarni Medicina, Vol 6(34), No 10, Oct 1961; pp 781-788

Data: "Organ and Tissue Changes in Whole-Body Irradiated Chickens. Part 3. Changes in the Liver and Spleen after 500 r and Administration of Oxytetracycline on the 30th Day following Irradiation"

KRUL, Jaromir, DVM
PETRAS, Karel, Graduate veterinarian /promovani veterinarni lekar/

GPO 981643

PETRAS, Lubomir, inz.; SKOTNICA, Oldrich

Continuous methanometers in the degasification stations of the Ostrava-Karvina coal basin. Uhli 5 no.3:107-108 Mr '63.

1. Vedecko-vyzkumny uhelny ustav, Ostrava-Radvanice.

PETRAS, M.

A class of scattering amplitudes which satisfy the unitarity condition. Chekhosl fiz zhurnal 13 no.7:477-481 '63.

1. Laboratorium fyziky Prirodovedeckej fakulty, Univerzita Komenskeho, Bratislava.

Z/0055/63/013/007/0477/0481

ACCESSION NR: AP3003672

AUTHOR: Petras, M.

TITLE: A class of scattering amplitudes satisfying the unitary condition

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 13, no. 7, 1963, 477-481

TOPIC TAGS: scattering amplitude unitary condition, unitary condition, scattering amplitude, Regge representation, Regge pole Residua, scattered amplitude class, Mandelstam representation

ABSTRACT: Analytical investigation of the application of the unitary condition to the Regge representation of scattering amplitudes led to a linear in homogeneous algebraic equation for the residua of Regge poles and to a linear inhomogeneous integral equation with the Cauchy kernel.

The solution of the integral equation, pertaining to the conical amplitude, shows that 1) a scattering amplitude will automatically satisfy the condition of elastic unitaryity for an arbitrary real function limited only by the requirement of the corresponding interval coverage; 2) the analytical properties of the scattering amplitudes are conditioned by the Mandelstam representation; and 3) the scatter-

Card 1/2

ACCESSION NR: AP3003672

ing amplitude equation satisfies two of the three basic conditions necessary for potential scattering. Orig. art. has: 17 formulas.

ASSOCIATION: Laboratorium Prirodovedeckoj fakulty Univerzity Komenskeho, Bratislava (Physics Laboratory, Department of Natural Sciences, Komensky University)

SUBMITTED: 26Nov62 DATE ACQ: 02Aug63 ENCL: 00

SUB CODE: PH NO REF SOV: 000 OTHER: 005

Card 2/2

Petras, M.

530.145

1849. A NOTE TO BHABHA'S EQUATION FOR A PARTICLE WITH MAXIMUM SPIN ½. M.Petráš.
Czech. J. Phys., Vol. 5, No. 3, 418-19 (Aug., 1955). In Russian.

The matrices α^k appearing in Bhabha's equation are expressed in terms of Dirac's ^{k} and Kemmer's β^k by means of relations derived in Abstr. 7692(1955). The equations of Harish-Chandra (Abstr. B26/1948) and Minami et al. (Abstr. 77/1954) follow as special cases. A canonical equation for a spin ½ particle with an anomalous magnetic moment is deduced.

W.J.Swiatecki

MILAN, PETRÁŠ

Petráš, Milan

2

Petráš, Milan. A contribution to the theory of the Pauli-Fierz equation for a particle with spin 3/2. Czechoslovak J. Phys. 5, 160–170 (1955). (Russian summary)

The Pauli-Fierz equation for particles with spin $\frac{3}{2}$ [M. Fierz and W. Pauli, Proc. Roy. Soc. London, Ser. A. 173, 211–232 (1939); MR 1, 190] is studied by means of a new set of matrices introduced following an idea of Harish-Chandra [ibid. 192, 195–218 (1948); MR 9, 557]. Their use is illustrated on the calculation of the magnetic moment.

L. Van Hove (Utrecht).

1-F/17

PETRASH, Milan [Petras, Milan] (Bratislava, Smeralova 2)

Problem of ultraviolet asymptote of photon propagators.
Mat fyz cas SAV 12 no.2:129-135 '62.

1. Laboratorium fyziky, Prirodovedecka fakulta
Univerzity Komenskeho, Bratislava.

PETRAS, Milan (Bratislava, Smeralova 2)

Singularity of the Jost functions and potentials of the P wave and D waves. Mat fyz cas SAV 12 no.2:136-144 '62.

1. Katedra teoretickej fyziky, Prirodovedecka fakulta University Komenskeho, Bratislava.

PETRAS, M.

Petras, M. Theory of the Pauli-Fierz equation for particles with 3/2 spin. p. 508. CASOPIS PRO FYSIKU. Praha. Vol. ., no. ., Oct. 19..

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

PETRAS, Milan

Tensor interpretation of the Wick rule. Mat fys cas SAV 12 no.4:312-319 '62.

1. Katedra teoretickej fyziky, Univerzita Komenskeho, Bratislava, Smeralova 2.

Z/045/62/000/002/001/001
D234/D308

AUTHOR: Potráš, Milan

TITLE: Ultra-violet asymptotic of photon propagator

PERIODICAL: Matematicko-fyzikálny časopis, v. 12, no. 2, 1962, 129 - 135

TEXT: The author offers an intuitive method of improving the formula of the perturbation theory in the asymptotic domain. No final solution of the problem is claimed. The matrix elements of the electromagnetic field potential are combined together with the charge into a single vector. It is supposed that the transition from the matrix element of the free field to those of the interacting field is carried out with the aid of a linear transformation of this vector. The author deduces a formula for the transformation and proves that it guarantees the absence of logarithmic singularity in the propagation function of the photon. Formulas are given for the spectral density and the renormalization constant which can be used to improve

Card 1/2

PETRAS, M.

Complete Jost functions. Chekhosl fiz zhurnal 14 no.12:895-909 '64.

1. Faculty of Natural Sciences of Comenius University, Bratislava, Smeralova 2. Submitted January 4, 1963.

PETRAS, R., inz. dr.

"New orientation method in mines by a gyrocompass." Reviewed by R. Petras. Geod kart obzor 8 no.12:308 D '62.

1. Institute of Employed People Study affiliated with the Czech Higher School of Technology, Prague.

PETRAS, P.

CZECHOSLOVAKIA

POLÁŠKOVÁ, J; POLÁŠEK, J; PETRAS, P.

Institute for Inorganic Chemistry, Karlova University (Institut für anorganische Chemie, Karlsuniversität), Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1966, pp 16-22

"Preparation and properties of ethylenediaminetetraacetic acid complex. Part 5: Tri-vanadium compounds."

PETRAS, R.

Scientific and technical cooperation between Czechoslovakia and Poland in the field of geodesy and cartography. p. 5, (PRZEGLAD GEODEZYJNY, Vol. 11, No. 1, January 1955, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5 May 1955, Uncl.

PETRAS, Rudolf, inz. dr.

"Preparation for the study and entrance examinations at the higher schools of technology." Reviewed by Rudolf Petras. Geodet kart obzor 10 no. 7:169 Jl '64.

1. Institute for Education of Employed People at Higher Schools of Technology affiliated with the Czech Higher School of Technology, Prague 1, Na Florenci 25.

PETRAS, Rudolf, inz. dr.

Studies of employed workers. Geod kart obzor 10 no.5:127 My'64.

1. Institute of Employed Workers' Study at the Higher Schools of Technology, affiliated with the Czech Higher School of Technology, Prague.

PETRAS, Rudolf, inz., dr.

Higher education for employed people. Geod kart obzor 8 no.9:172-173 S '62.

1. Ceske vysoke uceni technicke Praha, Ustav pro studium pracujicich na vysokych skolach technickych.

PETRAS, R.

Problems of optical and parallactic measurements of underground distances. p. 48. (Geodeticky A Kartograficky Obzor, Vol. 3, No. 3, Mar 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol 6, No. 8, Aug 1957, Uncl

PETRAS, R. Czechoslovakia

Wissenschaftliche und paedagogische Taetigkeit der Assistenten an der Vermessungsfakultaet Prag (tschech.)S. 29-31.

SO: Vermessungs Technik, Nov 1955, Uncl.

PETRAS, S.

"Conditions for mathematical modeling of an automatic-control system with variable coeffieients." p. 46.

STROJNICKY CASOPIS. (Slovenska akademia vied). Bratislava, Czechoslovakia, Vol. 10, No. 1, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

PETRAS, Stefan, inz., C.Sc.

"Statistical Dynamics of Control Circuits" by J. Benes. Stroj cas 12 no.5:319-320 '61.

(Automatic control) (Benes, J.)

PETRAS, S.

"Significance of Professor Aurel Stodola's work in the field of automatic control." p. 114.

STROJNICKY CASOPIS. (Slovenska akademia vied). Bratislava, Czechoslovakia, Vol. 10, No. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

PETRAS, Stefan, doc. inz. CSc.

Role and importance of operational research. Stroj cas 15 no.5:479-484 '64

EWT(m)/EWA(d)/EWP(h)/EWP(l)

ACC NR: AP6032037 SOURCE CODE: CZ/0088/66/000/004/0361/0373

43

AUTHOR: Petras, Stefan (Docent; Engineer; Candidate of sciences)

ORG: Institute of Technical Cybernetics SAV, Bratislava (Ustav technickej kybernetiky SAV)

14

TITLE: Learning in automatic control systems [read at the Second Conference on Cybernetics, Prague 16-19 November 1965]

SOURCE: Kybernetika, no. 4, 1966, 361-373

TOPIC TAGS: algorithm,. cybernetics, learning mechanism, algorithmic language

ABSTRACT: The term of learning is defined as it is used in cybernetics. The problems of self-learning and the quantitative method of learning are pointes out. The author attempts a solution for optimal control of working processes, even through the mathematical model is incomplete. Three types of control algorithms are discussed. Orig. art. has: 4 figures and 41 formulas.

SUB CODE: 05/ SUBM DATE: 10Dec65/ ORIG REF: 001/ SOV REF: 007/

Card 1/1 OTH REF: 004/

PETRAS, S.

"Study methods of production processes." p. 371 p.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied). Bratislava, Czechoslovakia, Vol. 11, No. 5, May 1959.

Monthly list of East European Accessions (EFAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

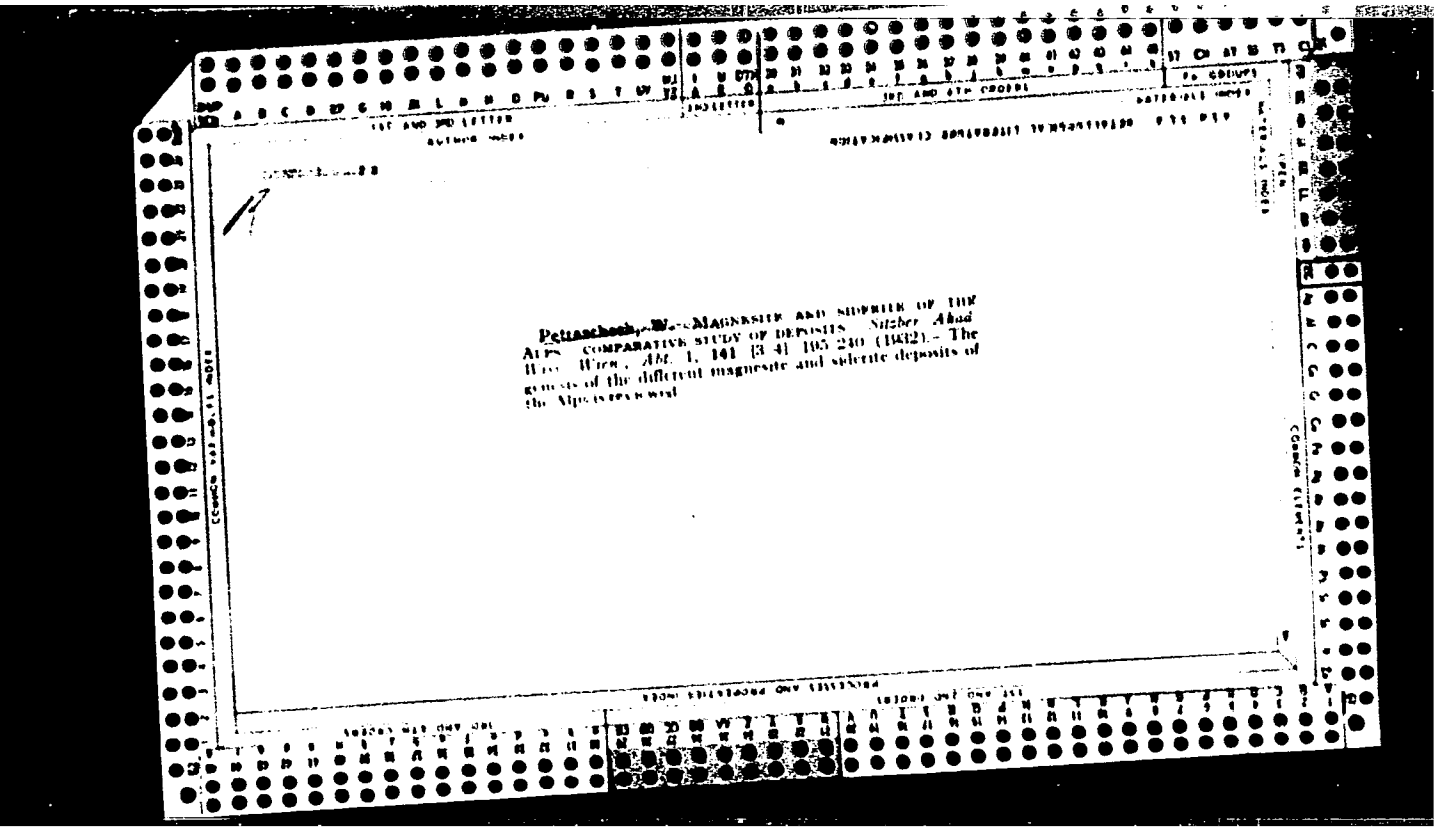
PETRAS, S.

"Electronic models of control of circuits."

p. 375 (Strojnoelektrotechnicky Casopis) Vol. 8, no. 5, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

[illegible], A. A.
A. [illegible], [illegible], [illegible], [illegible]



PETRASCU, E.

Computation and performances of linear accelerators with progressive wave. Studii cerc fiz 13 no.3:501-522 '62.

1. Institutul de fizica atomica, Bucuresti.

PETRASCU, I., ing.; STEFAN, N., ing.

From the experience of the Vasis Vasilescu Textile Mills, Medias, in finishing staple-fiber fabrics. II. Ind text Rum 10 no.9:379-383 S '59.

PETRASCU, S.; BALTAC, Margareta

Moistening capacity of some nonionic and cationic tensioactive compounds. Studii cerc chim 11 no.2:215-224 '63.

1. Laboratorul de insecto-fungicide si toxicologie al Institutului de biologie "Traian Savulescu".

PETRASCU, S.; BALTAC, Margareta; ILIE, Maria

Physical and chemical aspects of the formulation of phytopharmaceutical products. Rev chimie Min petr 15 no.2:91-100 F '64.

1. Academia R.P.R., Institutul de biologie "Tr. Savulescu", Laboratorul de insectofungicide si toxicologie.

PETRASEK, F.

New data on the metabolism of catecholamines. Cesk. fysiol. 12 no.1: 34-45 '63.

1. III. interni klinika fak. vseob. lek. KU, Praha.
(CATECHOLAMINES) (DOPAMINE) (EPINEPHRINE)
(NOREPINEPHRINE) (MONOAMINE OXIDASE) (OXEDRINE)

CZECHOSLOVAKIA

J. PETRASEK, Third Internal Medicine Clinic, Faculty of General Medicine, Charles University (III. interní klinika fakulty všeobecného lékařství KU [Karlova Universita] Prague.

"New Data About the Metabolism of Catecholamine ."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 1, Jan 1963; pp 34-45.

Abstract: Review of the findings published mainly during the last 10 years or so on the biogenesis and biosynthesis, storage and secretion, metabolism of dopamine and noradrenaline, O-methylation and transferase system, MAO deamination and conjugation, metabolism of derivatives of O-methyl synephrine. Of 123 references, 14 are Czech (including 2 unpublished), 1 Rumanian, 1 Polish; rest western, over 90% in English language. Four flow charts, 4 tables.

1/1

PETRASEK, Jan; DUBOVSKY, Jiri

Isolation of 3-methoxy-4-hydroxymandelic acid (vanillin-mandelic acid) and 3-methoxy-4-hydroxyphenylacetic acid (homovanillic acid) in tumors of the sympathoadrenal system. Cas. lek. cesk. 101 no.49:1457-1460 7 D '62.

1. III. interni klinika fakulty vseobecneho lekarstvi KU v Praze, prednosta akademik J. Charvat.

(MANDELIC ACID) (PHENYLACETATES) (PHEOCHROMOCYTOMA) (PARAGANGLIOMA) (NEUROBLASTOMA)

CZECHOSLOVAKIA

PEKRADEK, J., DUBOVSKY, J., and VICH, Z., Third Clinic of Internal Medicine (III. interni klinika), Academician J. CHARVAT, director; and Clinic of Radiology (Radiologicka klinika), Prof. Dr V. SVAB, director; both at the Faculty of General Medicine (Fakulta vseobecneho lekarstvi), Charles University, Prague [individual affiliations cannot be determined].

"Endocrine Activity of Some Tumors of the Sympathetic Nervous System"

Prague, Ceskoslovenska Neurologie, Vol 26(59), No 4, July 1963, pp 266-270.

Abstract [Authors' English summary]: On the basis of their own experience the authors recommend the determination of the presence of 3-methoxy-4-hydroxymandelic (vanilmandelic) acid as the principal metabolite of katecholamines. In the group of investigated persons they found high values of this metabolite in the malignant tumors of the sympathetic nervous system: sympathoblastoma, sympathogonioma, ganglioneuroblastoma, and paraganglioma. The determination of vanilmandelic acid after surgery serves as a quantitative indicator of the removal of the tumor. Attention is drawn to the highly increased excretion of 3-methoxy-4-hydroxyphenylacetic (homovanilic) acid in sympathoblastoma, sympathogonioma, and ganglioneuroblastoma. Fifteen references, including 5 Czech.

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PETRASEK, J.; DUBOVSKY, J.

Thyroid-adrenal medulla interrelation. I. Thyrotoxicosis.
Sborn. lek. 65 no.10:300-302 S '63.

1. III interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta akademik J. Charvat.
(HYPERTHYROIDISM) (EPINEPHRINE)
(NOREPINEPHRINE) (MANDELIC ACID)
(THYROID HORMONES) (MONOAMINE OXIDASE)
(ADRENAL MEDULLA) (PHYSIOLOGY)

SONKA, J.; PETRASEK, J.; ZBIRKOVA, A.; SLABOCHOVA, Z.

Effect of reducing regimens on the excretion of 3-methoxy-4-hydroxymandelic acid (vanillymandelic acid). Cesk. gastroent. vyz. 17 no.7:430-434 N '63.

1. Laborator pro endikrinologii a metabolismus a III. interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze; Katedra telesne vychovy Karlovy University v Praze, a Ustav pro vyzkum vyzivy lidu v Praze.

L 0749-66 EWP(e)/T/EWP(t)/EWP(b)/EWA(c) JD/WW/WH

ACC NR: AP5027698 SOURCE CODE: CZ/0037/65/000/006/0531/0534

39
B

AUTHOR: Eckstein, J.; Polivka, P.; Petrasek, J.

ORG: [Polivka, Petrasek] Semiconductor Plant, CKD, Prague (CKD Praha n.p. — zavod Polovodice); [Eckstein] SAV Physics Institute, Bratislava (Fyzikalny Ustav SAV)

TITLE: Deposition chamber for epitaxial growth

SOURCE: Ceskoslovensky casopis pro fysiku, no. 6, 1965, 531-534

TOPIC TAGS: epitaxial growing, semiconductor, single crystal growing

ABSTRACT: A chamber for the epitaxial deposition of thin monocrystalline semiconductors has been tested and is described. The chamber for small substrate plates is within and separated from the heating chamber (a hollow graphite cylinder which may also be made of molybdenum, tantalum, or of molybdenum disilicide). The gas medium in the outer cylinder need not be the same as that in the inner chanber, depending on the material of the heater. Intake and outlet nozzles at the ends of the inner chamber are sealed with cap nuts and packing. The substrate disks do not lie on the bottom of the inner chamber, but are placed in grooved holders which leave most of their surfaces exposed to the gas medium. These holders are made of graphite, fused quartz, or of high-ohmic silicon and may be either U-shaped or shaped to fit the cylinder. Such holders make possible the deposition on both faces of the disks in one operation and in any selected system (p-n-p; n-p-n; n^+-n-n^+; p^+-p-p^+, etc.). If a deposit is desired on

Card 1/2

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L 9749-66

ACC NR: AP5027698

only one face, two disks may be placed back to back in the groove. If the disks are held at an oblique angle to the gas stream, or rotated during exposure, the epitaxial deposit will be more homogeneous and more evenly spread on all disks. Tests were also made with a reversible gas stream, which can be easily arranged with two three-way teflon cocks. Orig. art. has: 5 figures

[08]

SUB CODE: SS / SUBM DATE: 05Mar65 / OTH REF: 004/ ATD PRESS: 4157

Card 2/2

L 43613-66 EWP(t)/ETI IJP(c) JD

ACC NR: AP6005479 (A) SOURCE CODE: CZ/0078/66/000/001/0004/0004

INVENTOR: Regner, Karel (engineer) (Prague); Petrasek, Josef (Prague)

ORG: none

TITLE: (Device for the high frequency zone smelting of semiconductor materials) CZ Pat. No. PV 5749-64, Class 12c

SOURCE: Vynalezy, no. 1, 1966, 4

TOPIC TAGS: melting furnace, smelting, semiconductor alloy

ABSTRACT: A device for the high frequency zone smelting of semiconductor materials is described which features a high frequency coil positioned inside a closed workshop immediately in the vicinity of the material to be smelted. The distinguishing feature of the device is that the high frequency coil, the coaxial drive and the battery of condensers are positioned in one consolidated mechanical whole constituting the oscillating circuit whose power supply is positioned outside the operating space and connected with the oscillating circuit by a flexible cable.

SUB CODE: 09/11/ SUBM DATE: 17Oct64

Card 1/1

PETRASEK, J.; DUBOVSKY, J.; VICH, Z.

Endocrine activity of tumors of the sympathetic system. Cesk. neurol. 26 no.4:266-270 Jl '63.

1. III interni klinika fakulty vseobecneho lekarstvi KU v Praze, prednosta akad. J. Charvat. Radiologicka klinika fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr. V. Svab.

(NEUROBLASTOMA) (GANGLIONEUROMA)
(PARAGANGLIOMA) (VANILLIN)
(MANDELIC ACID) (CATECHOLAMINES)

PETRASEK, J.

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CZECHOSLOVAKIA

HOLECEK, V; PETRASEK, J.

Third Internal Medicine Clinic of the Faculty of General Medicine (III vnitrni klinika fakulty vseobecneho lekarstvi), Prague (for both)

Prague ~~Brno~~, Vnitrni lekarstvi, No 7, 196), pp 702-706

"The Amylnitrite Test in the Differential Diagnosis of Polyuria."

JEKLEROVA, J.; ELEFANT,E.; PETRASEK.J.

Endocrino-active sympathoblastoma in a 12-month-old infant. Cesk. pediat. 19 no.1:47-49 Ja'64.

1. III. detska klinika fakulty vseobec. lekarstvi KU v Praze (prednosta: prof.dr. O.Vychytil) a III. interni klinika fakulty vseobec. lekarstvi KU v Praze (prednosta: akademik J.Charvat).

*

PETRASEK, J.; DUBOVSKY, J.

Elimination of 3-methoxy-4-hydroxyphenylacetic acid (homovanillic acid). II. Clinical applications. Sborn. lek. 65 no.4:107-113 Ap '63.

(PHEOCHROMOCYTOMA) (PARAGANGLIOMA)
(NEUROBLASTOMA) (PHENYLACETATES)

PETRASEK, J.; DOBOVSKY, J.

Elimination of 3-methoxy-4-hydroxyphenylacetic acid (homovanillic acid). I. Some basic physiological data. Sborn. lek. 65 no.4:101-107 Ap '63.

1. III interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta akademik J. Charvat.
(PHENYLACETATES) (DOPAMINE)

2

CZECHOSLOVAKIA

DUDOVSKY, J; PETRANEK, J.

Third Internal Medicine Clinic of the Faculty of General Medicine of Charles University (III. vnitrni klinika fakulty vseobecneho lekarstvi Karlovy University), Prague (for both)

Brno, Vnitrni lekarstvi, No 5, 1963, pp 503-507

"Quantitative Estimation of Important Catecholamine Metabolites by Paper Chromatography."

STURMA, A.; DUBOVSKY, J.; PETRASEK, J.; DUBOVSKA, E.

Studies on the excretion of α-ketoglutaric, pyruvic and 3-methoxy-4-hydroxy mandelic acid in university students under the influence of increased work load. Activ. nerv. sup. 4 no.2:192-193 '62.

1. Zdrav. odd. VPA-KG, Praha, III interni klinika fak. vseob. lek., Praha.

(KETO ACIDS urine) (PYRUVATES urine)
(MANDELIC ACIDS rel cpds) (STUDENTS)
(FATIGUE MENTAL)

PETRASEK, J.; DUBOVSKY, J.; VICH,Z.

Excretion of 3,4-dihydroxyphenylacetic acid (DOPAC) in patients with neuroblastoma and pheochromocytoma. Cas. lek. cesk. 103 no.24: 663-664 12 Je'64

1. III. interni klinika fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze (prednosta: akademik J.Charvat) a Radiologicka klinika fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze (prednosta: prof. dr. V.Svab, DrSc.).

PETRASEK,J.; DUBOVSKY,J.

3-methoxy-4-hydroxymandelic acid (vanillyl-mandelic) and 3-methoxy-4-hydroxyphenyl-acetic acid (homovanillic) in sympatheadrenal syndromes. Acta Univ. Carol. [med.] (Praha) 10: suppl.17:137-145 '63

Some metabolites of little known neurohormones. Ibid.:suppl. 17:147-152 '63

1. III. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze; prednosta: akademik Josef Charvat.

BLEKTA, M.; MISINGER, I.; PETRASEK, J.

Excretion of 3-methoxy-4-hydroxymandelic acid (vanilmandelic acid), a principal catecholamine metabolite, in pregnancy and late gestoses. Cesk. gynek. 30 no.8:620-624 O '65.

1. II. gyn.-por. klin. (prednosta prof. dr. J. Lukas, DrSc.) a III int. klin. (prednosta akademik J. Charvat) fakulty vseobecneho lekarstvi Karlovy University v Praze.

DUBOVSKY, J.; PETRASEK, J.

Excretion of phenolic amines by patients with liver cirrhosis.
Cas. lek. cesk. 104 no.43:1183-1185 29 O '65.

1. Laborator pro endokrinologii a metabolismus a III. interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta akademik J. Charvat).

PETRASEK, J.; SONKA, J.

Clinical physiology of peroral antidiabetics. Cas.lek.cesk 100 no.7:Lek Veda Zahr:25-33 17 F '61.

1. III. interni klinika KU v Praze, prednosta akademik Josef Charvat.

(ANTIDIABETICS pharmacol)

PETRASEK, J.; PRINC, L.

Ion-exchangers in the treatment of edema. Cas.lek.cesk 100 no.12: Lek Veda Zahr:59-63 24 Mr '61.

1. III. int. klinika KU v Praze, prednosta akademik Josef Charvat.

(ION EXCHANGE RESINS ther) (EDEMA ther)

HOLECEK, V.; PETRASEK, J.; KMENTOVA, V.

Pharmacological effect of amyl nitrite on the secretion of the antidiuretic hormone. Cas.lek.cesk 100 no.11:339-340 17 Mr '61.

1. III. interni klinika KU a laborator pro endokrinologii a metabolismus v Praze, prednosta akademik J. Charvat.

(NITRITES pharmacol) (VASOPRESSIN physiol)

PETRASEK, J.; DUBOVSKY, J.; VICH, Z.

Excretion of some catecholamine metabolites in sympathoblastomas.
Cas.lek.cesk 100 no.42:1335-1336 20 O '61.

1. II interni klinika KU Praha, prednosta akademik Josef Charvat.
Radiologicka klinika KU Praha, prednosta prof. MUDr. Vaclav Svab.

(NEUROBLASTOMA urine) (CATECHOLAMINES urine)

KUCHEL, Oto; SCHUCK, Ota; PETRASEK, Jan; DUBOVSKA, Eva

A contribution to the mechanism of action of some saluretics in diabetes insipidus. Cas.lek.cesk 100 no.47:1494-1496 24 N '61.

1. III interni klinika KU v Praze, prednosta akademik Josef Charvat. I. interni klinika KU v Praze, prednosta prof. dr. Vojtech Hoenig.

(DIABETES INSIPIDUS ther) (ACETAZOLAMIDE ther)
(CHLOROTHIAZIDE rel cpds)

PACOVSKY, Vladimir; PETRASEK, Jan; DUBOVSKY, Jiri; HRADEC, Eduard

New concepts on the hyperfunction syndrome of the adrenal medulla and present possibilities of diagnosis. Sborn. lek. 44 no.4:101-108 Ap '62.

1. III interni klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta akademik J. Charvat. II chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta prof. dr. J. Lhotka.

(ADRENAL MEDULLA diseases)
(PHEOCHROMOCYTOMA diagnosis)

HOLECEK, V.; PETRASEK, J.; SCHREIBER, V.; DIENSTBIER, Z.; KMENTOVA, V.

The neurohypophysis in postirradiation polyuria. *Physiol. Bohemoslov.* 11 no.2:119-122 '62.

1. Third Medical Clinic, Laboratory for Endocrinology and Metabolism, Department of Biophysics, Faculty of General Medicine, Charles University, Prague.

(POLYURIA exper) (RADIATION EFFECTS exper)
(PITUITARY GLAND POSTERIOR physiol)

39110
S/058/62/000/006/129/136
A062/A101

AUTHOR: Petrasek, Karl-Heinz

TITLE: Gas-tight housings for electric devices

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 11 - 12, abstract 6-3-22e P (Pat. GDR, class 21 c, 34, no. 21615, 31.6.61)

TEXT: The object of the patent is a gas-tight housing for devices provided with vacuum-tight inlet conductors and tightening gaskets, adapted to enable one after housing is sealed off, to evacuate it or fill it with a protection gas. During the maintenance or the use of the device one can, without breaking the gas-tightness, measure the pressure in it or change the composition of the protection gas. To this end, a tightening gasket, made of an elastic material, is mounted between the cover of the housing and a locking plate, so that it is easy to pierce the tightening gasket by a needle for injection. The elasticity of the gasket, its thickness and diameter, are chosen in such a manner that after withdrawal of the needle the aperture closes up by itself (by swelling) and the internal space of the housing is separated from the outer atmosphere. For piercing the elastic

Card 1/2

PECHAR, J.; PETRASEK, R.; VAVRINKOVA, H.; SEGOVA, E.

Oxygen consumption by eruthrocytes following nutritional stimuli.
Physiol. Bohemoslov. 13 no.6:579-583 '64

1. Institute of Human Nutrition, Prague.

PETRASEK, R.; RATH, R.; MASEK, J.

On the ratio of body fat in relation to different factors.
Rev. Czech. med. 11 no.4:251-258 '65.

1. Institute of Human Nutrition, Prague (Director: Prof.
J. Masek, M.D., D.Sc.).

RATH, R.; MASEK, J.; PETRASEK, R. Technicka spoluprace: MUNCLINGEROVA, M.

On the nature of the changes in body composition of obese subjects during fasting. Cas. lek. cesk. 104 no.3:84-85 22 Ja '65

1. Ustav pro vyzkum vyzivy lidu v Praze (reditel: prof. dr. J. Masek, DrSc.).

(1)

CZECHOSLOVAKIA

VAVRECKA, M., POLEDNE, R., PETRASEK, J., Nutrition Research Institute, (Ustav pro Vyzkum Vyzivy Lidu), Prague.

"Incorporation of Palmitate-1-C14 Bound to Albumin in Lipids of Rat Liver Slices."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 8[illegible]

Abstract: The incorporation is very fast for 5 minutes, slower between 5 and 10. In the first period there is mainly an increase in free palmitic acid, in the second an accumulation of non-esterified palmitic acid. Experiments were conducted at 37°C. 1 Figure, 6 Western references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

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(1)

CZECHOSLOVAKIA

POLEDNE, R., VAVRECKA, M., PETRASEK, R., Nutrition Research Institute (Ustav pro Vyzkum Vyzivy Lidu), Prague.

"Metabolism of Tripalmitin-1-C^{14} in Rat Liver."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 84-85

Abstract: 27 mg of a fat emulsion tagged with tripalmitin-1-C^{14} was administered to each animal; in 10 minutes a maximum of 60% was found in liver lipids, in 80 minutes it dropped to 20%. The activity in the fraction of non-esterified fatty acid increases rapidly and then begins to drop. Incorporation in the phospholipid fraction is also very fast in the first 20 minutes. The activity of reesterified triglycerides reaches a maximum in 40 minutes and then drops. 1 Figure, 4 Western references. Submitted at "16 Days of Physiology" at Kosice, 27 Sep 65.

1/1

PETRASEK, R. (Praha-Krc, Budejovicka 800); PLACER, Z.

The effect of 2,2-bis-(p-chlorphenyl)-1,1,1-trichlorethane (DDT) on the lipid metabolism. Cesk. hyg. 10 no.3:183-188 My '65.

1. Ustav pro vyzkum vyzivy lidu, Praha.