

ACCESSION NR: AP4029253

and a high resistance to embrittlement; its resistance to crystallization-fissure formation manifested itself in welding in CO<sub>2</sub> or by coated electrodes. It was found that satisfactory 14G2T-steel welds can be obtained with an arc energy of 1,700-5,000 cal/cm, with 12-mm-thick plate which corresponds to the rate-of-cooling of the weld-affected zone of 60.0-5.5C/sec. Sv-08GS and Sv-08G2S electrode wires are recommended for CO<sub>2</sub> welding, and UONI-13/55A, for manual arc welding. The above results probably hold true for other low-alloy steels, such as 15GS, 14KhGS, 14KhGSN, 15KhSND. Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: Tsentral'ny\*y nauchno-issledovatel'skiy institut stroitel'ny\*kh konstruktsiy (Central Scientific Research Institute of Building Structures)

SUBMITTED: 06Aug63

DATE ACQ: 27Apr64

ENCL: 00

SUB CODE: *mm*

NO REF SOV: 003

OTHER: 002

Card 2/2

ACCESSION NR: AP4016464

R/0011/64/000/001/0011/0016

AUTHOR: Pal, Reti (Doctor, Candidate of technical sciences, Titular docent);  
Jozsef, Kalman (Technician); Gabor, Barna (Technician)

TITLE: Experiments in detecting incipient cracking from fatigue with  
supersound during operation

SOURCE: Gep, no. 1, 1964, 11-16

TOPIC TAGS: detection of cracking, fatigue, supersound, rate of spread,  
life of machine part, rate-time diagram, creep phenomena, repeated loading

ABSTRACT: Since Wohler discovered material fatigue more than a century ago,  
nobody has worked out a reliable procedure for discovering cracking at its  
very start, tracing its spread and determining the mathematical relationship  
between the rate of spread and the life of the machine parts. The object of  
the author's experiments was to use the facilities afforded by supersonic  
material testing to work out, first on a laboratory scale and later on actual  
machinery, a procedure for studying and tracing by supersound the fatigue

Card 1/3

ACCESSION NR: AP4016464

phenomena resulting from repeated loading. The paper presents a method developed on steel samples in the Material-Testing Section of the Csepel Iron and Metal Works. As a result, suitable sample forms and equipment were evolved. Analysis of the mechanism of the phenomena and the rate-time diagram appears to confirm the findings of B. Cina and other researchers that material fatigue belongs to the class of creep phenomena. The size of the fault or the extent of the danger of breakage can be concluded from the growth in the fault echo produced by fatigue cracking. The procedure can be extended to other kinds of repeated loading, e.g. bending, rotary folding. It will apparently be possible to apply the method to finished machinery as well. Orig. art. has: 3 diagrams, 3 graphs, 5 photos, 2 tables, and 5 formulas.

Card 2/3

ACCESSION NR: AP4016464

ASSOCIATION: Csepel Vas- es Fommvek, Anyagvizsgalo Osztaly, Budapest (Csepel  
Iron and Metal Works, Metal-Testing Section)

SUBMITTED: 00

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 3/3

PAL, Rozsa

A new procedure for the determination of strychnine nitrate.  
Acta pharm. Hung. 36 no.1:1-4 J '66

1. Submitted June 30, 1965.

GATIATULLIN, Agzam Magirovich, brigadir; PAL', R.V., red.

[Fifty drilling rigs a year] 50 baryvykh v god. Ufa,  
Bashkirskoe knizhnoe izd-vo, 1964. 30 p.

(MIRA 18:6)

BUKHANOV, M.; PAL', R.V., red.

[Development of chemistry is a matter of our honor] Podniat'  
khimiiu - delo nashei chesti. Ufa, Bashkirskoe knizhnoe  
izd-vo, 1963. 90 p. (MIRA 17:7)

PAL, S.; IMRE, G.

Case of fracture of the lower third of the femur in Paget's disease treated by compression apparatus. *Khirurgia*, Sofia 10 no.11:1022-1024 1957.

(OSTEITIS DEFORMANS, complications,  
femur fract., ther. (Bul))

(FEMUR, fractures,  
in Paget's dis., ther. (Bul))



PAK.S.  
  
**Mathematical Reviews**  
**Vol. 15 No. 1**  
**Jan. 1954**  
**Analysis**

✓ \*Pál, Sándor. Diffusion problems of the sugar industry. Comptes Rendus du Premier Congrès des Mathématiciens Hongrois, 27 Août-2 Septembre 1950, pp. 693-726. Akadémiai Kiadó, Budapest, 1952. (Hungarian. Russian summary)

The mathematical part of this paper contains solutions of several special (one-dimensional or axi-symmetric) boundary-value problems of the diffusion equation.

A. Erdélyi (Pasadena, Calif.).

PAL, S., dr.

A new diagnostic test of pregnancy) (Klimovan as a diagnostic of pregnancy). Ther. Hung. 11 no.4:31-32 '63

1. Department of Gynaecology and Obstetrics, Municipal Hospital of Kalocsa, Hungary.

\*

HUNGARY/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 11, 1958, No 24986

Author : Lovass-Nagy Viktor, Fal Sendor, Pasztor Janos  
Inst : Not Given  
Title : Certain Problems Connected with the Heating of Metallic  
Bodies of Cylindrical Form, Heated by Induction.

Orig Pub : Magyar tud. akad. Munk. int. kozl., 1953, 2, 499-511

Abstract : The authors investigate the temperature distribution in an infinite metallic round cylinder heated by induced alternating current at high frequency. If the frequency of the exciting current is assumed to be infinite, the thermal energy arising through induction can be considered constant and the flux of heat flowing through the surface of the body per unit time and per unit surface can be considered constant. The use of the most important formulas is illustrated by means of examples and diagrams.

Card : 1/1

HUNGARY

PAL, Sandor, Dr.; City Council Hospital, Obstetrical and Gynecological Wards  
(Varosi Tanacs Korhaza, Szuleszeti-Mojo, yaszati Osztaly), Kalocsa.

"Primary Ovarian Pregnancy."

Budapest, Orvosi Hetilap, Vol 104, No 36, 6 Sept 1963, pages 1709-1710.

Abstract: [Author's Hungarian summary] The author describes a case of primary ovarian pregnancy with, rarely observed, extrafollicular implantation. The pregnancy of four months duration was removed in an intact form. A literature survey on the frequency, etiology, prognosis and diagnostic difficulties of primary ovarian pregnancies is presented by the authors. 10 Western, 5 Eastern European references.

1/1

PAL, Sandor; SCHUBERT, Bela; BAKONYI, Gyorgy

Role of stock standards in the field of industrial management.  
Koh lap 96 no.10:478-480 0 '63.

PAL, Sandor; SCHUBERT, Bela; BAKOMYI, Gyorgy

Role of metallurgic stock standards in the field of industrial  
management. Koh lap 96 no.11:515-518 F'63.

PAL, Sandor, dr.

Inferior vena cava syndrome. Orv. hetil. 103 no.13:600-601 1 Ap '62.

1. Kalocsa Varosi Tanacs Kohaza, Szuleszet, Nogyogyaszati Osztaly.

(VENAE CAVAE dis)

HUNGARY

PAL, Sandor, M.D., and HARAY, Laszlo, M.D., of the Department for Obstetrics and Gynecology at the Hospital of the Municipal Council (Varosi Tanacs Korbaza, Szuleszet-Mogyogyaszati Osztaly) in Kalocsa.

"Diagnosis for Pregnancy by Means of Klimovan Injection"

Budapest, Orvosi Hetilap, Vol 104, No 20, 19 May 1963, pp. 928-929.

Abstract: Two ampoules of Klimovan (a Hungarian-made estrogen-progesteron composition) are injected during two consecutive days. If the patient is pregnant, no vaginal bleeding occurs; however, if the result of the test is negative, bleeding will occur within 2-7 days after the second injection has been administered. The test, which carries no risk to a pregnant patient, is based on the stoppage of bleeding caused by the steroids contained in the injection. Eighteen references, including 1 Hungarian, 8 German, and 9 Western.

1/1



PAL, T.

Evaluation of tests related to the manufacturing of high-resistance concrete used for the construction of prestressed structures. p. 146.  
(Melyepitestudományi Szemle, Vol. 6, no. 10/12, Dec. 1956. Budapest, Hungary)

SO: Monthly List of East European Accessions (SEAL) LC, Vol. 6, no. 9, Sept. 1957. Uncl.

PAL, T.

"Concrete mountings of bridge constructions" pl 282, (MELYEPITESTUDOMANYI SZEMLE,  
Vol. 3, no. 6, June 1953, Budapest, Hungary)

SO: Monthly List of East European Accession, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

PAL, Tibor, okleveles mérnök, főmérnök

Remark about the study by Huba Hejj entitled " Cost estimation of small bridges with various foundations." Melyepitestud szemle 13 no.9:407-408 S '63.

1. Közlekedés- és Postaügyi Minisztérium Kozuti Hidosztalya.

HUNGARY

PAL, Tibor, Dr, DEBRECZENI, Laszlo, medical student; Coal Mining Trust, Research Department (Szenbanyaszati Troszt, Kutatasi Osztaly), Pecs.

"Analysis of Lung Tissues Extracted by the Formamide Method."

Budapest, Orvosi Hetilap, Vol 104, No 39, 29 Sep 63, pages 1850-1852.

Abstract: [Authors' Hungarian summary] The formamide method was used by the authors for the extraction of lung tissue. Because of its digestive effect on organic materials, it is well suited for the reclamation of dust which has settled in the lungs. The method does not alter these dust particles and they are, therefore, suited for qualitative and quantitative analyses. The results of the investigations show that most of the dust which settles in the lungs consists of granules which are under 1 micron. 3 Eastern European, 21 Western references.

1/1

31

PAL, Tibor, okleveles mernok, fémernok

Steel through girder bridges with continuous ferroconcrete deck plates. Melyepitestud szemle 14 no.11:494-501 N '64.

1. Highway Main Directorate, Ministry of Transportation and Postal Affairs, Budapest.

BANK, Jozsef, dr.; PAL, Tibor, dr.; SERES, Viktor, dr.; HESZ, Peter.

Disabling diseases in mines with silicosis hazards in Peca VI in  
1958. *Nepegezsseguy* 41 no.10:288-295 O '60.

(OCCUPATIONAL DISEASES statist)  
(MINING)

Pal', Ye.A.

Computation of the effect of higher harmonics arising from the variability of an inverted synchronous field in principal methods of experimental determination of parameters of synchronous machines. Trudy Len.politekh.inst. no.2: 130-145 1977.

(MLA 5:3)

(Electric motors, Synchronous)

S/563/62/000/218/002/004

E071/E135

AUTHORS: Zamotorin, M.I., and Pal', Ye.Ye.

TITLE: Influence of small additions on the ageing and properties of Al-Mg-Zn-Cu alloys

SOURCE: Leningrad. Politekhnikheskiy institut. Trudy. no.218. Moscow, 1962. Metallovedeniye. 50-54.

TEXT: The influence was studied of small additions of boron, mischmetal, silver and zirconium on the ageing and mechanical properties of an aluminium alloy of the B 95 (V95) type (7.3% Zn, 2.7% Mg, 0.5-0.75% Cu and 0.5% Mn) (primary crystallisation, plastic properties of cast alloys at various temperatures, natural and artificial ageing of deformed alloys). Additions of boron, mischmetal and zirconium diminish the grain size, inhibit the development of transcrystallisation, and improve considerably the impact strength of cast alloys at elevated temperatures; peak values of about 2.1 kgm/cm<sup>2</sup> for 0.025% B and 1.42 kgm/cm<sup>2</sup> for 0.5% mischmetal were obtained at about 350 °C. Boron and mischmetal have hardly any influence on the strength in the annealed

Card 1/2



Influence of small additions on the ... S/563/62/000/218/002/004  
E071/E135

and hardened states. Silver increases slightly the strength in the hardened state, zirconium increases the strength in the annealed and hardened states but particularly in the hardened state. Zirconium lowers the elongation. Additions of boron, mischmetal, silver and zirconium have little influence on the process of natural and artificial ageing. There are 8 figures and 1 table.

Card 2/2

KONIG, J.; KUNC, Z.; SVEHLA, C.; PALA, P.; SPANKOVA, H.; MELJNKOVA, M.

Changes in leukocyte count during ganglionic blocking. Cas. lek. cesk. 98  
no.3:65-71 16 Jan 59.

1. Interni katedra Ustavu pro doskolovani lekaru v Praze, prednosta doc.  
MUDr. O. Smahel. Neurochirurgicke oddeleni a ustredni laboratore Ustredni  
vojenske nemocnice v Praze. J. K. Praha-Krc, Budejovicka 800.

(LEUKOCYTE COUNT, effo of drugs on  
pentamethonium ganglionic block (Cz))

(METHONIUM COMPOUNDS, eff.  
pentamethonium ganglionic block on leukocyte count (Cz))

(ANESTHESIA, REGIONAL, eff.  
same)

MAJKOVA, D.; PALA, F.; SIDAK, Z.

Cellular changes in the white cell count, regional lymph node and spleen during infection with the tick-borne encephalitis virus in mice. Acta virol. Engl. Ed. Praha 5 no.2:101-111 Mr '61.

1. Military Institute of Hygiene, Epidemiology and Microbiology, Praha; Mathematical Institute of the Czechoslovak Academy of Sciences, Praha.

(ENCEPHALITIS EPIDEMIC virol)

(LEUKOCYTE COUNT)

(LYMPH NODES)

(SPLEEN)

SKALA, E.; PALA, F.; ARIENT, M.

Contribution to transfusion and hematological safeguards  
during surgery with extracorporeal circulation. Rozh.chir.  
42 no.11:784-789 N°63.

1. Transfuzni oddeleni UVN v Praze (vedouci: MUDr.E.Skala);  
Oddeleni klinickych laboratorii UVN v Praze (vedouci: MUDr.  
M. Arient).

\*

ARIENT, M.; SKALA, E.; POTMESIL, M.; PALA, F.; DUFEK, V.

On the treatment of acute leukemia by massive whole body irradiation combined with subsequent bone marrow transfusion. A case report. Neoplasma, Bratisl. 7 no.3:295-304 '60.

1. Military Institute of Hygiene, Epidemiology and Microbiology, Central Military Hospital, Prague, Czechoslovakia.

(LEUKEMIA MYELOCYTIC radiother)

(BONE MARROW transpl)

NICOLAU, Gh.St.,academician; BLUMENTHAL, M.; FELLNER, M.; PAIA, G.;  
Ignatescu, M.; DANILA, P.

Preliminary studies of the therapeutic use in dermatology of  
drugs affecting the central nervous system. Probl. ter., Bucur.  
Vol 1:7-15 1954.

(MAGNESIUM SULFATE, ther. use  
skin dis., mechanism of action)  
(CENTRAL NERVOUS SYSTEM, eff. of drugs on  
magnesium sulfate in ther. of skin dis.)  
(SKIN, dis.  
ther., magnesium sulfate)

PROCHAS, Donat, inz.; PALA, Henryk, inz.

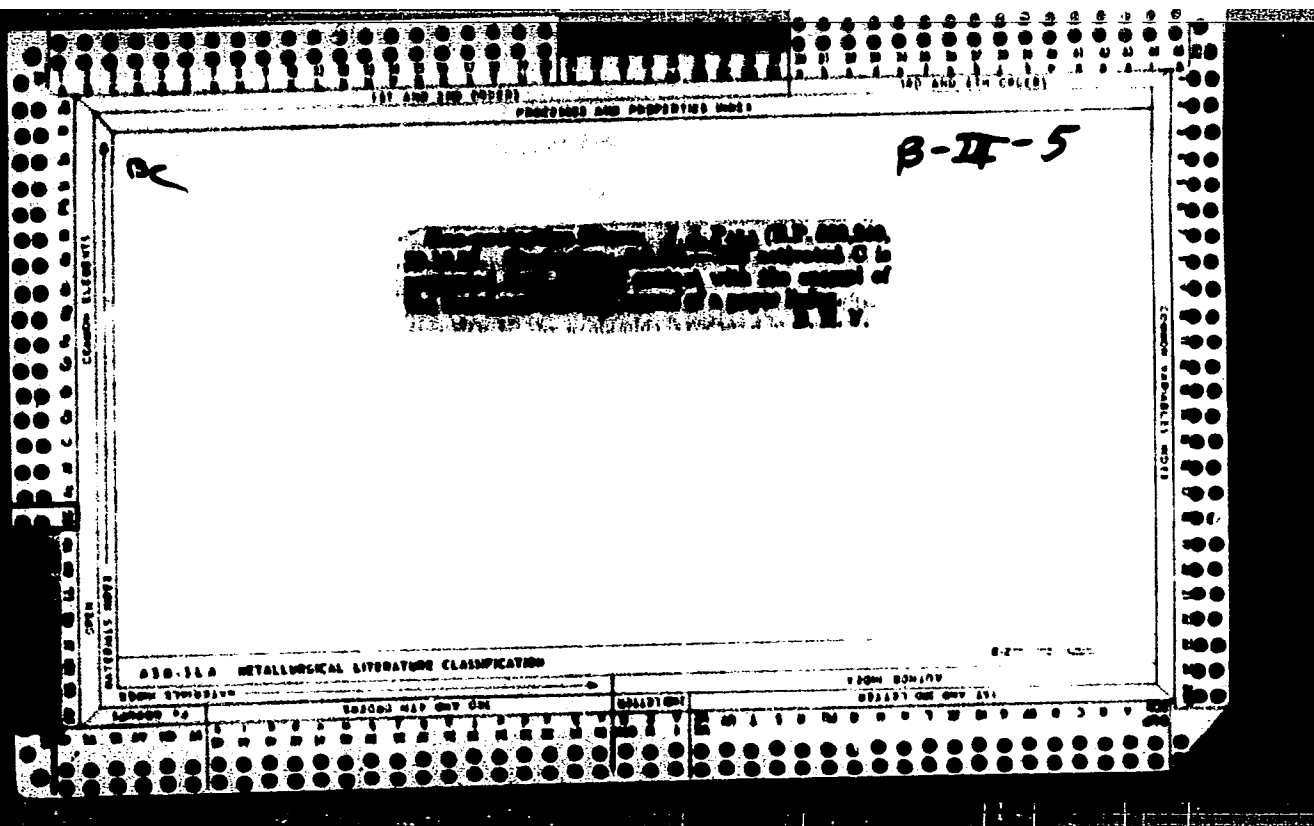
Simultaneous work of two KWB-2 cutter loaders on one rope in seam  
329 of the Debiensko mine. Przegl gorn 19 no.3:125-128 Mr '63.

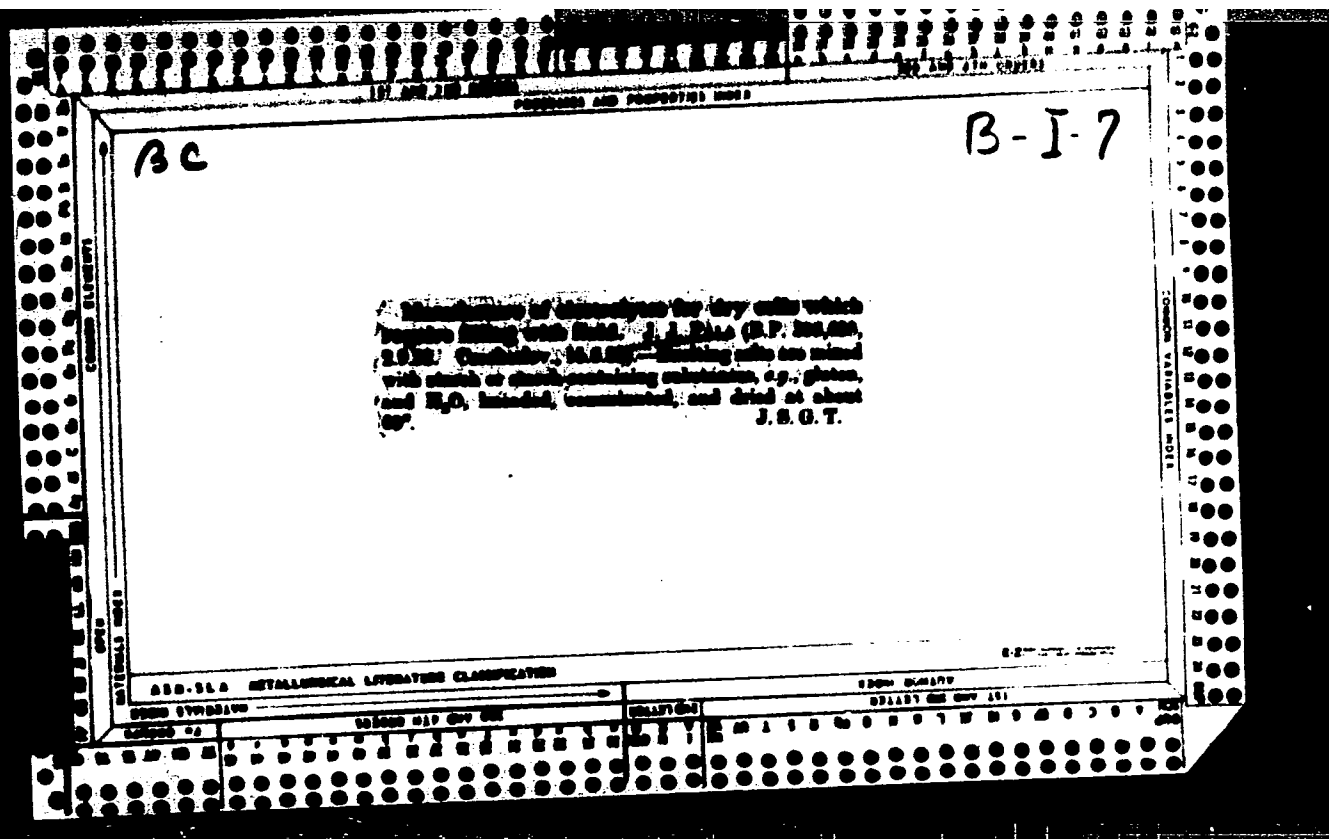
HUBACEK, Emil, inz.; FAIA, Jan

Problems of collecting data for an automatic computer.  
Podn org 18 no. 3:130-131 Mr '64.

1. Regional Association of National Enterprises of the Building Industry, Ostrava.







PALA, Otaker, inz.

Trolley cars in quarries in the United States. Rudy 10  
no.2:60 F '62.

*Pl. 1 1511, 111*  
KRISHTOPOVICH, A.N. [deceased]; PALABIN, I.V. [deceased]; SHAPARENKO,  
K.K. [deceased]; YARMOLENKO, A.V. [deceased]; RAYKOVSKAYA, T.N.;  
GRUBOV, V.I.; IL'INSKAYA, I.A.; SHISHKIN, B.K., redaktor;  
SHCHEBINA, T.S., redaktor; KIRMARSKAYA, A.A., tekhnicheskiy  
redaktor.

[Oligocene flora of Mount Ashutas in Kazakhstan] Oligotsenovaia flora  
gory Ashutas v Kazakhstane. Moskva, Izd-vo Akademii nauk SSSR, 1956,  
178 p. (Akademia nauk SSSR. Botanicheskii institut. Trudy, Ser. 8,  
no.1. Paleobotanika). (MLBA 9:8)

1. Chlen-korrespondent AN SSSR (for Krishtofovich, Shishkin)  
(Kazakhstan--Paleobotany)

**PALAC, Gesa, dr.**

**The obstacles of root canal therapy. Fogorv. szemle 47 no.10:  
321-328 Oct 54.**

**1. Kozponti Fogassati Rendelo es Tovabbkepzo Intezet kozlemenye.  
(ROOT CANAL THERAPY)**

Romania/Pharmacology. Toxicology. Narcotic Drugs

U-1

Abs Jour : Ref Zhur-biol., No 7, 1958, 32787.

Abstract : by a second paralysis caused by exhaustion. In experiments on a dog luminal inhibited the action of l (produced a frenatorial action); the greater the dose the greater its inhibition. It was impossible to differentiate between this action and its specific paralyzing action. Small doses of chloral, paraldehyde, and chloralose as a result of their nonspecific action intensify the effect of l on the nervous system; large doses depress it (specific frenatorial effect). In some small animals chloralose may induce spasms. Luminal interferes with the increase in the secretion of lll by the myeloid substance of the suprernals induced by l and potassium ions. Chloral, paraldehyde, and chloralose have no effect on the secretion of lll.

Card 4/4

PALACE, J.

Organization of statistical quality control in the machine works of the Vah River area.

P. 941. (STROJIRENSTVI) (Prana, Czechoslovakia) Vol. 1, no. 1, Dec. 1958

SO: Monthly Index of East European Accession (EEAI) 10 Vol. 7, No. 1, 1958

PAIACEK, Jaroslav

Ventilation in hospitals. Cesk. zdravot. 7 no.5:252-258 June 59.

1. Studijni a typizacni ustav v Praze.

(HOSPITAL ADMINISTRATION

ventilation, equip., maintenance & funct (Cz))

(VENTILATION

in hosp., equip., maintenance & funct. (Cz))



PALACEK, Karel, Dr.

Nationwide organization for therapy of hemolytic disease of newborn.  
Cesk. pediat. 12 no.7:600-603 5 July 57.

1. Detski oddeleni Ustavu pro peci o matku a dite v Praze-Podoli.  
(ERYTHROBLASTOSIS, FETAL, ther.  
organiz. in Czech. (Cs))

PALACHEK Ye . M.

USSR (600)

Ballistics

Approximate integration of equations of external ballistics by S . A. Kozakov's  
method for vertical parameters Prikl. mat i mikh 16 No. 4, 1952

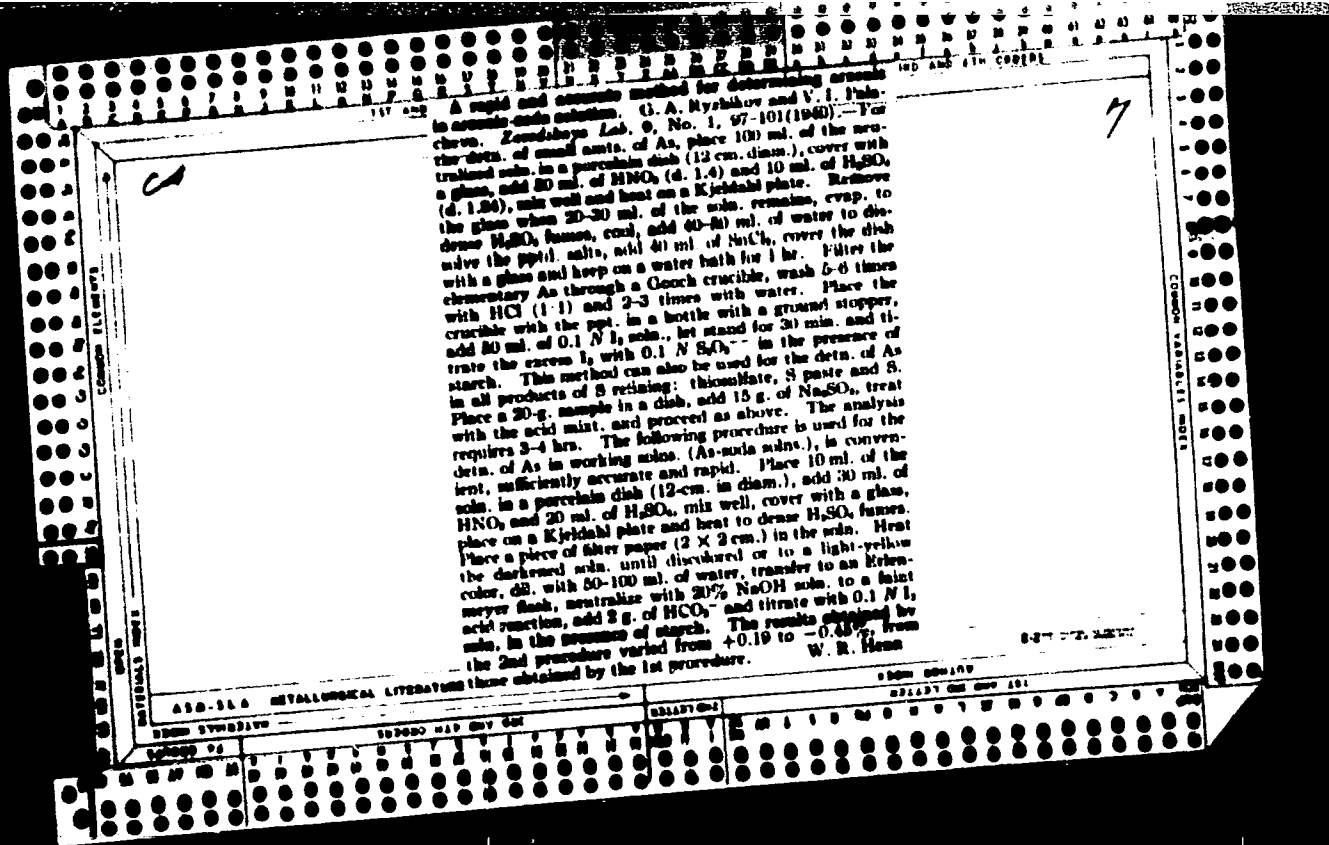
9. Monthly List of Russian Accessions, Library of Congress, November 1952, 2. Unclassified.

PALACHEV V.

Vynesen Planirovaniye Iz Kabinetov Na Obrazhdeniye Mass,  
Goryuchiye Slantey, 1974, No 1, 1.

SO:

Goryuchiye Slantey " 1974-75, TK .871  
: .74



PALACIANU, Olga

Some problems of a technical character. Gaz mat fiz 69  
no. 4:134-139 Ap '64.

PALACKA, J.; KARSAY, A.

The Senec Machine-Tractor Station follows the example.

p. 87  
Vol. 6, no. 5, Mar. 1956  
MECHANISACE ZEMEDLS'TVI  
Praha

SO: Monthly List of East European Accessions (EFAL), LC, Vol. 5, no. 12  
December 1956

TREINDL, L.; PALACKOVA, E.

Oscillopolarographic study of the oxidation kinetics of cyclohexanol and cyclohexanone with hydrogen peroxide. Chem zvesti 18 no.5/6: 385-390 '64.

1. Chair of Inorganic and Physical Chemistry, Faculty of Natural Sciences, J.A. Comenius University, Bratislava.

EXCERPTA MEDICA Sec. 7 Vol. 9/12 Dec. 55

Palacky, A.

)

2717. PALACKÝ A. Dětského odd. OÚNZ, Uherske Hradište. \*Zkušenosti s krátkodobým ustavním léčením spály při penicillinové léčbě. Otázka 'nosičů bacilů'. Experiences with short-term hospitalization of scarlet fever cases in the course of penicillin treatment. The question of carriers LÉK. LISTY 1954, 9/11 (256-262) Tables 3 illus. 1

Evaluating experiences with 2,192 cases hospitalized for 6 days (formerly 42 days) it is concluded that the shortening of the hospitalization is more essential than the penicillin treatment. The number of complications dropped from 30% to 1.4%. However in about 2% a second attack was observed, and in one case there were 3 attacks during one year. The use of sulphonamides is unsuitable; it does not prevent complications, which are more frequent in treated patients than in untreated subjects. A complex conception of scarlet fever is given. It is doubtful whether streptococcus-carriers would be a danger. The treatment of healthy carriers is unnecessary. Pešek - Brno (XX, 6, 7)



PALACKY, A.

Automatic rapid blood-cell counters and their use in pediatrics.

Cesk.pediat. 15 no.4:367-371 Ap '60.

(ERYTHROCYTE COUNT)

(HEMATOLOGY equip.& supply)

P-11-1011, 11

PALACKY, A. F., STRYCEK, R.

Modifications in blood proteins in erythroderma and seborrhoeic dermatitis and their relation to biotin deficiency. *Pediat. listy* 5:5, Sept.-Oct. 50. p. 270-3

1. Of the Children's Department of the State Regional Hospital in Uh. Hradisce.

CLML 20, 3, March 1951

BALICKI, Stefan L., doc. mgr inz.; PALACOWSKI, Janusz, mgr inz.

White bronze Z-284 Rudy i metale 8 no. 5: 159-163  
My '63.

PALACE, E.

Selecting steel for automobile parts manufactured by cold plastic processing.

p. 147 (Technika Motoryzacyjna. Vol. 6, no. 5, May 1958. Warszawa, Poland)

Monthly Index of East European Accessions (MEEA) I. Vol. 7, no. 2,  
February 1958

PALACZ, E.

The rationalizers' movement in the service of building up the socialist system.  
p. 25. (TECHNIKA MOTORYZACYJNA, Vol. 4, No. 1, Jan. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.  
1954, Uncl.

FALACZ, E.

FALACZ, E. Technical standardization of work time for cold-upsetting presses, cutting machines., and rolling machines or threading. (To be contd.)  
p. 267. Vol. 29, no. 7, July 1956. MECHANIK, Warszawa, Poland.

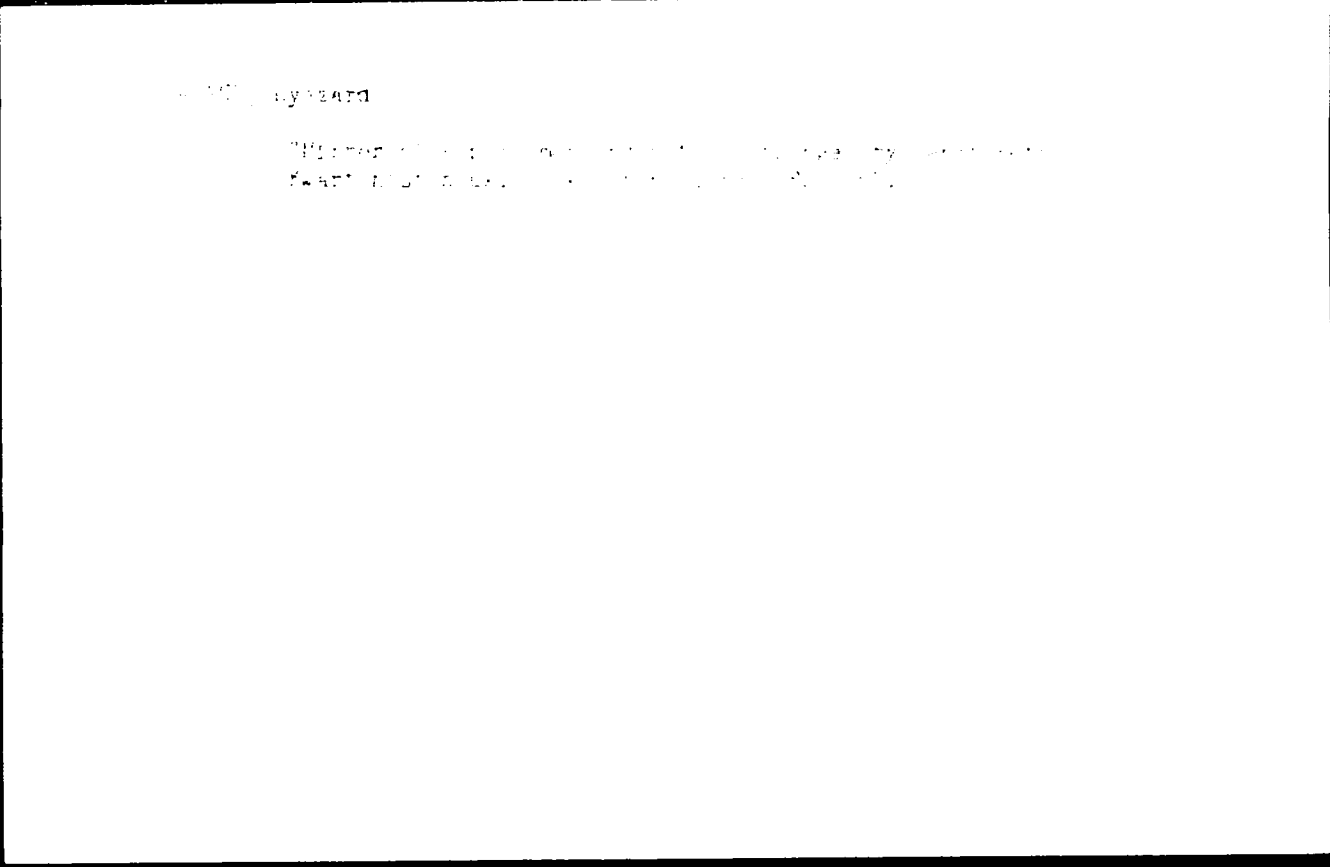
SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PALACZ, O.

Hydrolytic enzymes of domestic goose kidney. *Folia biol* 11  
no.1:121-131 '63.

1. Department of Histology and Embryology, Pomeranian Medical  
Academy, Szczecin. Head: J. Slotwinski, M.D.

x





KAWECKA-GRYCZOWA, Alodia; ZABLOCKI, Stefan; VOISE, Waldemar; STASIEWICZ,  
Irena; ORLOWSKI, Boleslaw; PAZDUP, Jan; DOBRZYCKI, Jerzy;  
BARYGZ, Henryk; SZPILCZYNSKI, Stanislaw; SKARZYNSKI, Boleslaw;  
PALACZ, Ryszard; WOJCIK, Zbigniew; JEWSIEWICKI, Wladyslaw;  
PILECKI, Jerzy; RAVETZ, J.R.

Book reviews. Kwart hist nauki i techn 7 no.1/2:147-219 '62.

ABLOV, A.V.; PALADE, D.M.

Salts of oxalato- and malonstodiphenanthroline cobalt (III).  
Zhur.neorg.khim. 7 no.11:2514-2519 N '62. (MIRA 15:12)  
(Cobalt compounds)  
(Phenanthroline)

PALADE, D.M.

Products of interaction of diquodiphenantrolinesalt complexes  
with some Me<sup>+</sup>X salts. Izv. AN Mold. SSR no.10:23-30 '62.  
(MIRA 17:12)

ABLOV, A.V., akademik; PALADE, D.M.

Aquation kinetics of trans-halonitrobiscobaltdimethylglyoxime  
acid ions. Dokl. AN SSSR 144 no.2:341-343 My '62. (MIRA 15:5)

1. Institut khimi AN Moldavskoy SSR. 2. AN Moldavskoy SSR  
(for Ablov).

(Cobalt compounds) (Coordination compounds)

ABLOV, A.V.; PALADE, D.M.

Salts of cis-diaquodiphenanthrocobalt (III). Zhur.neorg.khim.  
6 no.5:1110-1114 My '61. (MIRA 14:4)

1. Institut khimii, Moldavskiy filial AN SSSR.

(Cobalt compounds)

PALADE

CATEGORY : Rumanian 16750  
ABS. JOUR. : RZKhia, No. 5 1960, No.  
AUTHOR : Titeica, P. and Palade, G.  
INSTR. : Rumanian Academy of Sciences  
TITLE : IR Absorption Spectra of Some Micas  
ORIG. PUB. : Rev Phys Acad RPR, 4, No 1, 93-97 (1959)  
ABSTRACT : The authors have investigated the IR absorption spectra of the following micas in the spectral range from the visible to 25  $\mu$ : biotite, phlogopite, lepidolite, muscovite, and winnwaldite. It has been established that the transparency of biotite and phlogopite increases markedly as one approaches the near IR region. Detailed data are given on the position of the absorption bands for all five micas studied. It is noted that the IR absorption spectra of biotite and phlogopite are

CARD: 1/2

ca PALADE, G

The viscosity and molecular structure of tetranitro methane. Emanuel Lucatu and Gheorghe Palade, (Facultatea Stiint. Bucharast, Rumania). Acad. Rep. Populare Romania, *Hal. Stiint. A.* 1, 135-30(1949).—In a previous publication L. (C.A. 37, 3287<sup>o</sup>) reported some observations on viscosities: (1) The relation between the viscosities at various temps. of 2 liquids with the same volatility; (2) const. providing the liquids have the same volatility; (3) the viscosity of a liquid with a sym. cyclic chain decreases faster with increase of temp. than that of other liquids with the same volatility but with a straight or branched C chain. The viscosity of C(NO<sub>2</sub>)<sub>4</sub> (I) was detd. at 20-00°; it decreases faster than that of n-octane (same volatility), which leads to the conclusion that I has the tetrahedral structure  
Gerhard Außerger

PALADE, G.

Distr: 4E3d

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Category: Rumania/General Division. Problems of Teaching.

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Abs Jour: Referat Zh.-Biol., No 9, 10 May, 1957, 35005

Author : Calcatin, N., Palade, L.

Inst : not given

Title : The Hedges Around the School Plot

Orig Pub: Natura (Romin.), 1956, 8, No 2, 131-134

Abstract: It is recommended that hedges around school plots be created of various decorative plants: shading, quick-growing, prickly, and which will stand up to shearing well. The methods and dates of planting are explained, and also the norms for applying fertilizer. The care necessary for the plants is also described.

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Au and Te was anywhere near 1:3; 3-10% Au was lost at  
lower Au contents. To avoid or minimize losses it is recom-  
mended to use twice as much flux as usual (1 Au: 30 Pb) in  
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Use of paper chromatography (in electrolyte solutions and in water) for study of the structure and reaction mechanisms of heteropoly acids. I. Phospho- and silicomolybdic acids. R. Palad, A. Duce, R. Păun, D. Stănescu, and A. Măger (Inst. chim. acad. R.P.R., Cluj, Romania). *Naturwissenschaften* 44, 321-2 (1957). Paper chromatography in electrolyte media is a useful tool for the study of the structure, stability, valence, pH dependence, and rate of change of heteropoly acids. E. M. Loeb

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**1958-1959** — **Behavior of heteropoly acids in water** by the study of the structure and of the reaction products of heteropoly compounds. 7. Formation of phospho- and silicomolybdic acids of the saturated type (P-12Mo, Si-12Mo). K. F. Ponomarev, R. Palani, P. Schmechel, and A. Mayer. (Z. Naturforsch., 1959, 14a, 1507-13). The behavior of different condensed molybdates derived from  $\text{Na}_2\text{MoO}_4$  (pH 8.5-0.2) was examined. As a comparison  $\text{Cr}_2\text{O}_7^{2-}$ ,  $\text{Cr}_2\text{O}_8^{2-}$ , and  $\text{NH}_4\text{Mo}_7\text{O}_{24}$  of known structure were studied. Also the formation of heteropoly compounds was studied, the at. ratios of which were 1R:1Mo to 1R:12Mo (R = B, Si, P, etc.) and each ratio for the pH range 8.5-0.2. Paper chromatography in the presence of electrolyte and in water enables the separation of different condensed forms according to their stability. For instance, dodecamolybdate (predominant at pH 1.25) is more stable than hexamolybdate (predominant at pH 3.4), and silicomolybdic acid (predominant at pH 1.7) is more stable than phosphomolybdic acid (predominant at pH 1.7). Qual. and quant. interpretations of the chromatograms show that for the formation of heteropoly compounds lower than 12Mo/R at least the hexamolybdate is needed. The formation of heteropoly acids (P-12Mo) occurs between the heteropolyacid groups MoO<sub>4</sub> or MoO<sub>6</sub> and the radicals RO<sup>-</sup> (SO<sub>4</sub><sup>-</sup> or PO<sub>4</sub><sup>-</sup>). If brackets are probably important for the formation of heteropoly acids. II. Study of the decomposition and stability of arsenic, phosphomolybdic, and silicomolybdic acids. (Z. Naturforsch., 1959, 14a, 1507-13).

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