

*Epshteyn, V.L.*

28(1)

SOV/19-59-2-49/600

AUTHORS: Bulavko, Yu.M., and Epshteyn, V.L.

TITLE: An Electric Digital-Computer Control Machine

PERIODICAL: Byulleten' izobreteniy, 1959, Nr 2, p 18 (USSR)

ABSTRACT: Class 7a, 9<sup>01</sup>. Nr 117590 (582260 of 21 August 1957).  
A machine consisting of a memory system with a buffer memory block, a computing unit, a control unit, and an output unit in the form of a perforator; designed for obtaining wasteless cutting of rolled metal done by flying shears of continuous bar mills, as well as for calculating the theoretical weight of rolled material with automatic registering of the results on standard perforated cards; including photoelectric pickups, placed along the roller table controlling the buffer memory block and the computing unit, and setting the computation program and controlling the flying shears by comparing the number of the time pulses elapsed after the previous cut with the pre-calculated pulse number.

Card 1/1

EFSHTEYN-LITVAK, R.V.

See: LITVAK, R.V.

DIDENKO, S.I.; EPSHTEYN-LITVAK, R.V.

Fortieth anniversary of the Moscow Institute of Epidemiology,  
Microbiology, and Hygiene. Trudy IEMG no.8:21-30 '61  
(MIRA 17:2)

KOVALEVSKAYA, I.L.; EPSHTEYN-LITVAK, R.V.; DMITRIYEVA-RAVIKOVICH, Ye.M.;  
KURNOSOVA, N.A.; SHCHEGLOVA, Ye.S.; FERDINAND, Ya.M.;  
KHOMIK, S.R.; MAKHLINOVSKIY, L.P.; PETROVA, S.S.;  
GOLUBOVA, Ye.Ye.; GONCHAROVA, Z.I.; SARMANEYEV, A.P.;  
SIZINTSEVA, V.P.; Prinimali uchastiye: MEDYUKHA, G.A.;  
OSOKINA, L.A.; RACHKOVSKAYA, Yu.K.; OSOVTSEVA, O.I.;  
DEDUSENKO, A.I.; KOVALEVA, P.S.; KARASHEVICH, V.F.;  
CHEBOTAREVICH, N.D.; CHIGIR', T.R.; SKUL'SKAYA, S.D.;  
KECHETZHIYEV, B.A.; DEMINA, A.S.; ZUS'MAN, R.T.; YESAKOV, P.I.;  
SYSOYEVA, Z.A.; ZINOV'YEVA, I.S.; FAL'CHEVSKAYA, A.A.;  
DENISOVA, B.D.; TIMOFELEVA, R.G.; SYRKASOVA, A.V.;  
LYANTSMAN, S.G.

Reactivity and immunological and epidemiological effectiveness  
of alcoholic typhoid and paratyphoid fever vaccines in school  
children. Zhur. mikrobiol., epid. i immun. 33 no.7:72-77  
Jl '62. (MIRA 17:1)

1. Iz Moskovskogo, Rostovskogo, Omskogo institutov epidemio-  
logii i mikrobiologii, Stavropol'skogo instituta vaktsin i  
syvorotok i Ministerstva zdravookhraneniya RSFSR. 2. Rostovskiy  
institut epidemiologii i mikrobiologii (for Kovalava).
3. Stavropol'skiy institut vaktsin i syvorotok (for Sysoyeva).
4. Kuybyshevskiy institut epidemiologii i mikrobiologii (for  
Zinov'yeva). 5. Saratovskaya geroetskaya sanitarno-epidemiolo-  
gicheskaya stantsiya (for Lyantsman).

EPSHTEYN-LITVAK, R.V.; VIL'SHANSKAYA, F.L.

Role of laboratory examinations in detecting the etiology of  
intestinal diseases. Zhur. mikrobiol., epid. i immun. 40 no. 8:  
53-59 Ag '63. (MIRA 17:9)

1. Iz Moskovskogo instituta epidemiologii i mikrobiologii.

DIDENKO, S.I.; MYASNENKO, A.M.; EPSHTEYN-LITVAK, R.V.

Dry colibacterin, a new effective preparation for the treatment  
and prophylaxis of intestinal diseases. Biul. Uch. med. sov. 3  
no.1:19-21 Ja-F '62. (MIRA 17:10)

RAVICH-BIRGER, Yelena Davydovna; EPSHTEYN-LITVAK, Rakhil'  
Veniaminovna; PARNES, Ya.A., red.

[Bacteriological and serological methods of examination in  
infectious diseases] Bakteriologicheskie i serologicheskie  
metody issledovaniia pri infektsionnykh zabolevaniakh.  
Moskva, Meditsina, 1965. 247 p. (MIRA 18:4)

EPSHTEYN, Ya.V.; DURYMINA, L.I.; PASHENKIN, A.S.

Vapor pressure of levoglucosan ( $\beta$ -1,6-anhydroglucopyranose).  
Zhur. prikl. khim. 37 no.11:2543-2545 N 16. (MIRA 18:1)



EPSHTEYN-KOLONTAY, YU. M

USSR/Medicine - Health service

FD - 1924

Card 1/1 Pub 102-5/12

Author : Yeremenko, G. S. and Epshteyn-Kolontay, Yu. M. (Simferopol')

Title : Results of improving quality of medical service to population

Periodical : Sov. zdrav., 1, 25-29, Jan-Feb 1955

Abstract : The merger of hospitals with outpatient clinics, effected in 1950, and adherence to medical district principle, produced a streamlined system of health service for the population of the city of Simferopol' and provided an opportunity for medical district physicians to improve their qualifications. It was found, however, that the work load of physicians assigned to outpatient clinics and visitation work in the homes of patients was much greater than the work load of physicians on duty in hospitals. A new work schedule was drawn up whereby a few physicians were detached from duty in hospitals and assigned to outpatient clinics. Conditions in outpatient clinics were thereby alleviated and expansion of preventive measures was made possible.

Institution: - -

Submitted : May 29, 1954

EPSTEIN, B.; ZEMAN, L.

Contributions to artificial feeding of infants. *Pediat. listy* 6 no.1:  
34-37 Jan-Feb 51. (CML 20:7)

1. Of the Children Department of the State District Hospital,  
Prague VIII.

EPSTEIN, B.

30 years experience with the treatment of vomiting in infants according to the Pavlovian theory. *Pediat. listy, Praha* 7 no. 2:79-82 Mar-Apr 1952. (CLML 22:2)

1. Of the Pediatric Department (Head--Prof. B. Epstein, M. D.) of State District Hospital Prague-Bulovka.

EPSTEIN, B.; ZEMAN, L.; LEKSA, J.

Salmonella bovis morbificans infection in children, *Pediat. listy*,  
Praha 7 no. 4:197-201 July-Aug. 1952. (CLML 23:1)

1. Of the Pediatric Department (Head--Prof. B. Epstein, M. D.) and  
of the Bacteriological Laboratory (Head--Prof. V. Jedlicka, M. D.)  
of the Prosectorium at the State District Hospital in Prague 8-Bulovka.

EPSTEIN, B.; GEBHART, A.; STREDA, A.

Gastric and duodenal ulcers in children. Cesk. pediat. 10 no.10:  
730-739 Dec 55.

1. UNZ-ONV, Praha VIII, Bulovka, detsko-kojenecke oddeleni  
(predn. prof. MUDr. B. Epstein) UNZ, Praha IX, rtg oddeleni  
(predn. MUDr. A. Streda). (Venovano k 25. vyroci cinnosti nemocnice  
na Bulovce v Praze 8).  
(PEPTIC ULCER, in infant and child,)

Epstein, Berthold

EPSTEIN, Berthold, Prof. MUDr.; BABJUK, Jaroslav, PhMr.; NEMCOVA, Alice, MUDr.

~~.....~~  
Sudden poisoning in children. Cesk. pediat. 13 no.1:1-6 5 Jan 58.

1. Detske oddeleni nemocnice na Bulovce, prednosta prof. Dr. B. Epstein.  
Ustredni laborator nemocnice na Bulovce, prednosta Dr. K. Masek. B. B.,  
Praha 8, Bulovka.  
(POISONING, in inf. & child  
(Cz))

EPSTEIN, B.

Our experience with the problem of child care in the 2d district in Prague. Cesk. pediat. 16 no.4:372-376 Ap '61.

1. Kojenecke a detske oddeleni Nemocnice na Bulovce v Praze, prednosta prof. MUDr. B. Epstein.

(PEDIATRICS)

EPSTEIN, M.

2

Max

Epstein, M. Une généralisation des séries de Lambert.

Bul. Inst. Politehn. Iași (N.S.) 2 (1956), 13-19. (R. 2)

Russian and French summaries.

Dans cette note l'auteur donne plusieurs propositions élémentaires sur la série  $\sum_{n=0}^{\infty} a_n x^n$  ( $(1/x) \sum_{n=0}^{\infty} a_n (x^n - 1)$ ), où (1)  $f$  est une fonction holomorphe dans

$$\{x \neq 1, |x| < R, R > 1\}$$

ayant  $x=1$  pour pôle simple et s'annulant pour  $x=0$ .

(2)  $a_n$  est une racine primitive de l'équation  $x^n=1$ . Pour  $f(x)=1/(x-1)$  on obtient les séries de Lambert [K. Kuopp, J. Reine Angew. Math. 142 (1913), 283-315].

G. T. Ionescu Tulcea (Bucarest)

Stamp



EXCERPTA MEDICA Sec 18 Vol 4/3 Cardiovas. Dis. Mar 60

65. **Reticulosaroma of the heart** Retikulosarkom des Herzens. FRENKEL S. and  
EPSTEIN O. III. Innenabt. und Prosekt., Hauptstätt. 'Koranyi'-Krankenh., Buda-  
pest *Zbl. allg. Path. path. Anat.* 1959, 99/3-4 (126-131) Illus. 5

A report is presented of the case of an 18-year-old patient who died 1.5 months after the onset of the first complaints. The clinical picture did not give rise to the suspicion of cardiac tumour; rather, a rheumatic affection of the heart was considered. At post-mortem examination it was found that the whole of the apical part of the right ventricle was filled by a tumour which histologically could be identified as a reticulosarcoma. It is emphasized that only 13 such cases have been reported in the literature so far.

Busch - Vienna (V, 16, 18)

MESTER, Zoltan, dr.; EPSTEIN, Otto, dr.

Results of 258 operations on the biliary tract in Jaundic. Magy.  
sebeszet 13 no.4:124-129 Ag '60.

1. A salgotarjani Megyei Korhaz Sebeszeti Osztalyanak (Forvoss:  
dr. Mester Zoltan az orvostudomanyok kandidatusa) kozlemenye  
(JAUNDICE, surg.)

EPSTEIN, Otto, dr.

Examination of senile plaques with phase contrast microscopy.  
Ideggogy. szemle 17 no.4:106-109 Ap'64

1. Budapest Fovaros XIII. ker. tanacsa Robert Karoly korati  
korhaza (Igazgato: Krasznai, Ivan, dr.) Noi Ideg-Elme Osz-  
talyanak (Vezeto: Angyal, Lajos, dr., az orvostudomanyok  
kandidatusa) kozlemenye.

\*

EPSTEYN, S.M.

Comparative evaluation of meat inspection methods according to All-Union State standard 7269.54 and All-Union Standard 36 of the People's Commissariat of the Meat and Dairy Industries. Vop. pit. 19 no. 6:84-85 N-D '60. (MIRA 13:10)

1. Iz Khar'kovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach I.I. Chernov).  
(FOOD ADULTERATION AND INSPECTION)

HAHN, Witold E.; EPSZTAJN, Jan

Utilization of the Mannich reaction for the synthesis of heterocyclic systems. II. Some derivatives of (2,3,4,5-tetrahydro-1,2,4-triazine-4) - acetic acids. Roczniki chemii 35 no.4:907-916 '61.

1. Katedra Chemii Organicznej, Uniwersytet, Lodz.

HANN, Witold E.; EPSZTAJN, Jan

Experiments in hydroxymethylation and hydroxylation of  
(2,3-pyrido)-cycloparaffin. Roczniki chemii 36 no.4:777-778  
'62.

1. Katedra Chemii Organicznej, Uniwersytet, Lodz.

HAHN, Witold E.; BARTNIK, Romuald; EPSZTAJN, Jan

Utilization of the Mannich reaction for the synthesis of heterocyclic systems. Pt.4. Roczniki chemii 36 no.11:1645-1654 '62.

1. Katedra Chemii Organicznej, Uniwersytet, Lodz.

HAHN, Witold E.; EPSZTAJN, Jan

New method for the synthesis of 5,6,7,8-tetrahydroquinoline.  
Rocz chemii 37 no.1:109-112 '63.

1. Department of Organic Chemistry, University, Lodz.



Hahn, Witold, E.; EPSZTAJN, Jan

Cycloparaffins condensed with heterocyclic rings. Pts. 1-2.  
Rocz chemii 37 no.4:395-412 '63.

1. Katedra Chemii Organicznej, Uniwersytet, Lodz.

L 07003-67 EWP(j) RM

ACC NR: AP7001015

(N)

SOURCE CODE: PO/0099/66/040/001/0149/0152

AUTHOR: Hahn, Witold E.; Epsztajn, Jan; Olejniczak, Bogdan; and Stasiak, Stanislaw

ORG: Department of Organic Chemistry University (Katedra Chemii Organicznej Uniwersytetu), Lodz.

TITLE: Synthesis and reactions of 2,6-dialkylpyridine analogues

SOURCE: Roczniki chemii-Annales societatis chimicae polonorum, v. 40, no. 1, 1966, 149-152

TOPIC TAGS: heterocyclic base compound, pyridine, chemical synthesis, chemical reaction

ABSTRACT: Continuation of work on the synthesis and properties of N-heterocyclic compounds condensed in the ortho position with cycloparaffins is reported. Of particular interest were compounds having an alicyclic ring condensed in the 2 and 3 positions, and an alkyl in position 6 in pyridine. Systems having two alicyclic rings condensed in positions 2, 3 and 5,6 with pyridine were also investigated. Orig. art. has: 2 tables. [JPRS: 35,397]

SUB CODE: 07 / SUBM DATE: 09Sep65 / ORIG REF: 001 / SOV REF: 001 / OTH REF: 004

Card 1/1

EPSZTEIN, A.

(GAZ, WODA I TECHNIKA SANITARNA, Vol. 27, No. 8, Aug. 1953, Warsaw, Poland)  
"Applying automatic welding in building pipe lines under pressure." p. 236

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

EPSZTEJN, ADAM

Poland/Chemical Technology - Chemical Products and Their Application. Treatment of Natural Gases and Petroleum. Motor Fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62573

Author: Epsztejn, Adam

Institution: None

Title: Polish Gas Industry During 10 Years of the People's Government

Original

Periodical: Gazownictwo polskie w okresie 10-lecia wladzy ludowej, Gaz, Woda, techn. sanit., 1954, 28, No 7, 198-201; Polish

Abstract: Description of the development of the gas industry in Poland during 1944-1954, and an outline of prospective future development.

Card 1/1

EPSZTEJN, Iliá, doc.

The Institute of Economics and Organization of Industry. Review Pol  
Academy 9 no.3:20-25 JI-S '64.

. Head, Institute of Economics and Organization of Industry, Warsaw.

EPSZTEIN, A.

A conference of specialists on development of the gas-manufacturing industry in Europe. p. 68.

GAZ, WODA I TECHNIKA SANITARNA, (Polskie Zrzeszenie Gazowników, Wodociągowców i Techników Sanitarnych) Warszawa. Vol. 30, no. 2, Feb. 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 5, no. 7, July 1956.

EPSZTEIN, A.

Gas in the European power supply. p. 178

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa) Warszawa, Poland.  
Vol. 33, no. 5, May 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959  
Uncl.

EPSZTEIN, Adam

Underground gas storage. Koks 7 no.2:85-92 Mr-Ap '62.

1. Centralne Laboratorium Gazownictwa, Warszawa.



EPSZTEIN, Adam, mgr inz.; ZAKOWSKI, Janusz, mgr

Application of polarography in determining pollution of gas.  
Pt. 1. Gaz woda techn sanit 37 no. 3:99-102 Mr '63.

1. Central Gas Engineering Laboratory, Warsaw.

EPSZTEIN, Adam, mgr inz.; ZAKOWSKI, Janusz, mgr

Application of polarography in determining pollution in gas.  
Pt. 2. Gaz woda techn sanit 37 no.4/5:137-140 Ap-May '63.

1. Central Gas Engineering Laboratory, Warsaw.

EPSZTEJN, Iliu, doc.

Institute of Economics and Organization of Industry. Nauka polska  
12 no.4:128-142 J1-Ag '64.

1. Director, Institute of Economics and Organization of Industry,  
Warsaw.

EPT, V.

Festivals of Moscow ship-repair workers. Blok. agit. vod. transp. no.9:  
20-21 My '57. (MIRA 10:6)

(Moscow, Amateur art activities)

L.P. 1956

ENESCU, Viorica; MARCUS, Nicolae; ~~EPURAN~~, Gheorghe

Changes in the electrocardiogram during protoveratrine therapy of hypertensive diseases. Probl. ter., Bucur. 4: 71-88 1956.

1. Institutul de terapeutic al Academiei R.P.R., Sectia de la Spitalul Colentina.

(HYPERTENSION, therapy

protoveratrine, eff. on ECG)

(VERATRUM ALKALOIDS, ther. use

protoveratrine, in hypertension, eff. on ECG)

(ELECTROCARDIOGRAPHY, eff. of drugs on

protoveratrine in ther. of hypertension)

EPURAS, Lucia, inz.

In close cooperation with the Committee of the Union of the Working Youth Organization. Munca sindic 7 no.7:52-53,59 JI '63.

1. Responsabila comisiei cultural-educative a comitetului sindicatului de la "Tesatura", Iasi.

RUMANIA/Chemical Technology. Chemical Products and Their  
Application. Chemical Processing of Solid Fossil  
Fuels.

H-22

Abs Jour: Ref Zhur-Khin., No 2, 1959, 5952.

Author : Blun, I; Bolchi, Fr.; Boure, I.; Gheorghita, C.;  
Goldstein, M.; Geruncanu, M.; Ionescu, H.; Mandel, H.;  
Platkowski, Th.; Sirbu, N.

Last :  
Title : Chemico-Technological Study of Peat in RPR. Report II.  
Mechanical Treatment and Processes of Chemico-Technolo-  
gical Treatment of Peat in RPR.

Orig Pub: Studii si cercetari energ., 1956, 6, No 3, 265-279.

Abstract: It was found in the laboratory study on briquetting  
that the strength of briquets does not increase  
noticeably with the rise of pressure above 1500 kg

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RUMANIA/Chemical Technology - Processing of Solid Fossil Fuels. H-22

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 82930

Author : Blun, I., Piatkowski, Th., Epure, I.

Inst : -

Title : The Experiments Concerning the Desulfurization of Coking Coals of RNR [Rumanian People's Republic]. Communication IV. The Influence of Inorganic Additives Upon the Sulfur Content and Its Compounds in Coke from Gas Coal from Valea Jiului.

Orig Pub : Studii si cercetari energ., 1957, 7, No 2, 201-211.

Abstract : Results are reported on the experimental carbonization of gas coal from valea Jiului in a mixture with CaO in order to obtain a strong and dense metallurgical coke. For Communication III, see R.Zh. Khim., 1957, 77955.

Card 1/1

- 9 -



ACCESSION NR: APl015868

R/0017/63/000/008/0498/0501

AUTHOR: Dragos, Z. (Engineer); Moldovan, C. (Engineer); Epure, M. (Engineer)

TITLE: The use of sound and ultrasound in the casting of metal

SOURCE: Metalurgia, no. 8, 1963, 498-501

TOPIC TAGS: metal casting, ultrasound, soundwave, vibration, degassing

ABSTRACT: The authors summarize the various applications of sound and ultrasound in metal casting, calling attention to the indications and advantages/disadvantages of each method. The principal use of ultrasound is to obtain a finer crystalline structure, while the main effect of using sound is to cause very thorough stirring of the entire mass of liquid metal, resulting in degassing and more amorphous growth. Application of ultrasound may involve either irradiation of cast parts or irradiation of the liquid metal before casting. The use of sound in casting is simpler and more widely applicable than that of ultrasound, especially in the form of an 50-cycle electrodynamic vibrator which is resistant, easy to maintain and adjustable for a wide range of powers. The efficient degassing, visible to the naked eye, does not lengthen the casting period as it

Card 1/2

ACCESSION NR: AP4015868

can be performed, while removing oxidation products from the surface of the liquid, by simply resting the pot on the vibrator. Such an installation reduced the amount of rejects by 47 percent in the manufacturing of pistons made of the alloy AlCu<sub>1</sub>MgNi<sub>2</sub>; the gas content of the alloy decreased from 11.5 to 2.5 percent, traction resistance increased by an average of 12 percent, density of the metal increased, and hardness increased an average of 12 percent. The use of sound was also tested on 5 ingots of liquid steel, each 700 mm high, vibrated for about 15 minutes with a 50-cycle, 250 w vibrator. Because of the favorable results, a 5-kw, 50 cycle per second device capable of processing much larger pieces was built and is described. Results obtained with this device justify extension of this method. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 21Oct63

ENCL: 00

SUB CODE: ML

NO REF SCV: 000

OTHER: 000

CONTREA, A.; EPURE, I.

Research on the distribution of manganese forms and the iron-manganese relation in some soil profiles of Geoagiu. Studia Univ B-B S Chem 8 no.1:331-340 '63

1. Institute of Agriculture, Timisoara.

DRAGOS, Zamfir, ing.; MOLDOVAN, Cornel, ing.; EPURE, Mircea, ing.

Use of sound and supersonics in the foundry. St si Teh Buc 15  
no.4:16-17 Ap '63.

1. Collective of the "Tehnica noua" Foundry and the Section of  
the Foundry of the "23 August" Plant, Bucharest.

PANTEA V., Ing.; MOLDOVAN, G., Ing; TACU, T., Ing.; EPURE, M., Ing.

Electromagnetic hardening control system based on the  
changing of steel magnetic properties. Metalurgia constr  
mas 15 no.8:508-511 Ag '63.

CRIVETZ, D.; MISSITS, Gh.; MPURE, P.

Electrolyte imbalance in pathogenesis of some rheumatic diseases,  
with special reference to the painful syndrome with muscular  
cramps in miners. Probl. reumat., Bucur. 3:239-254 1955.

(RHEUMATISM, etiol. & pathogen.  
electrolyte balance disord.)

(ELECTROLYTES, metabolism  
disord. in etiol. of rheum. dis.)

(OCCUPATIONAL DISEASES  
rheum. in miners, etiol., electrolyte balance  
disord.)

EPUREANU, Mircea, technician

Over 2700 K.W.H. monthly saving. Constr Buc 15 no.728:2 21 D  
'63.

EPUREANU, M., technician

Excavations in ballast holes with pressure pump dredgers.  
Constr Buc 16 no.742:2 28 March 1964.



EPUREANU, Mircea, tehnician

Excavation and transportation on the physical plan. Constr  
Buc 16 no.745:3 18 kp '64.

EPUREANU, Mircea, technician; MITRACHE, Elena, ing.; DEMENY, Zoltan,  
technician

Reduced consumption of wood for construction site organization.  
Constr Buc 16 no. 749:3 16 May '64.

1. Regional Trusts for Housing Construction, Arges (for Mitrache).

EPURE & FOTINO, Marilena, dr.; DANILESCU, Maria, dr.; BOIA, Maria, dr.;  
Coliatorator tehnic: CROHINOV, A.

Identification of incomplete antibodies in dried blood. II. Med.  
intern. 13 no.10:1463-1466 0 '61.

(ANTIBODIES)

EPURE-FOTINO, Marilena, dr.; DANIELESCU, Maria, dr.

Unusual causes of error of blood group determination. Med. intern.  
15 no.3:363-367 Mr '63.

1. Centrul de hematologie, Bucuresti.  
(BLOOD GROUPS) (BLOOD BANKS)

*Epuzyanu*

RUMANIA / Chemical Technology. Food Industry

H-28

Abs Jour : Ref Zhur - Khim., No. 12, 1958, No 41466

Author : Epuzyanu

Inst : -

Title : Evaluation of the Quality of Frozen Meat

Orig Pub : Rev. ind. aliment. prod. animale, 1956, No. 9, 6-9

Abstract : Various methods are described for defrosting meat, and mention is made of the changes that occur in the meat when its storage conditions are upset. The indications of partial surface defrosting are pointed out, as well as the importance for a careful external examination of the meat, and an organoleptic examination of the meat. The latter can be supplemented by bacteriological and physico-chemical analysis (for  $\text{NH}_3$ ,  $\text{H}_2\text{S}$ ). The terminology is introduced such as "centrifugal" spoiling of the meat (from inside toward the surface) and "centripetal" spoilage (from the surface inward).

Card 1/1

ERAC, M.

Tasks and jurisdiction of legal organs of the Yugoslav Armed Forces. p. 378. VAZDUHOPLOVNI GLASNIK. (Jugoslovensko ratno vazduhoplovstvo) Zemun.

Vol. 11, No. 3, May/June 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 4, No. 12, December 1955

ERACLIDE, M.

REINER, R., Prof.; IACU, H., Dr.; AVRETESCU, H., Dr.; NICOLAU, V., Dr.;  
SRACLIU, M., Dr.; ADDINIO-CICUIESCU, M., Dr.; ROYTESCU, I., Dr.;  
SINDU, Ioan, Dr.; PASCU, T., Dr.; BUCUR, N., Dr.; BERTEA, A., Dr.

Studies of acute diseases of the lungs. Med. int., Bucur. 9 no.5:  
685-699 May 57.

1. Clinical medicine a Spitalului Brucovenesc, directia de Pneumologie  
si dr. A. Deravici, dr. D. Sarateanu. (Institutul de Pneumologie si  
al Academiei R. P. R., director: acad. St. G. Noveanu)

(PNEUMONIA, PRIMARY ATYPICAL  
pathol. & diag.)

(RICKETTSIAL DISEASES  
pneumonia, pathol. & diag.)

KRADZE, D. <sup>G.</sup> (stantsiya Krylovskaya)

Operational experience of trackworkers at an advanced division.  
Zhel.dor.transp. 36 no.5:56-59 My '55. (MIRA 12:5)

1. Nachal'nik Krylovskoy distantzii puti Severo-Kavkazskoy drogi.  
(Railroads--Track)



KOLESNIKOV, Pavel Ivanovich, kand.tekhn.nauk; LIDERS, Georgiy Vladimirovich, kand.tekhn.nauk; BRADZE, David Georgiyevich, inzh.; SERGIYEVA, A.I., inzh., red.; VERINA, S.F., tekhn.red.

[Rail-lifting repair of tracks; practices of track repairmen of the Stalino, North Caucasus, and Southwestern Railroad] Pod"emochnyi remont puti; opyt puteitsaev Stalinskoi, Severo-Kavkazskoi i Iugo-Zapadnoi dorog. Moskva, Gos. transp. shel-dor. izd-vo, 1958. 99 p.

(MIRA 11:12)

(Railroads--Track)

ERADZE, D.G., inzh.

~~Compacting ballast. Put' i put. khoz. no. 7:28-29 J1 '58.(MIRA 11:7)~~

1. Nachal'nik distantsii, stantsiya Krylovskaya Severo-Kavkazskoy  
dorogi.

(Ballast(Railroads))

ERADZE, D.G., insh.

Urgent problems in the mechanization of operations in the  
current track maintenance. Zhel.dor.transp. 41 no.8:38-41  
Ag '59. (MIRA 12:12)

1. Nachal'nik Krylovskoy distantzii puti Severo-Kazskoy  
dorogi.  
(Railroads--Track--Maintenance and repairs)

ERADZE, D.G.

Experience in the operation of a consolidated division. Put' 1  
put.khoz. 7 no.9:10-12 '63. (MIRA 16:10)

1. Nachal'nik Tikhoretskoy distant'si: puti Severo-Kavkazskoy dorogi.

ERADZE, D.G., inzh.

Intermediate rail fastenings and improvement of the super-  
structure. Zhel. dor. transp. 45 no.5:45-49 My '63.  
(MIRA 16:10)

1. Nachal'nik Tikhoretskoy distantsii puti Severo-Kavkazskoy  
dorogi.

ERADZE, D.G.

First experiment in the use of spring expansion spikes.  
Put' 1 put. khoz. 8 no.7:9-10 '64. (MIRA 17:10)

1. Nachal'nik Tikhoretskoy distantzii puti, Severo-Kavkazskoy dorogi.

ERAK, P.

Pathology of toxicosis. Lijec.vjes. 72 no.2:88-90 F '50.  
(CIAM 19:2)

1. Of the Pediatric Clinic in Beograd (Director -- Prof. M.Ambro-  
zic, M.D.).

**NRAK, Petar**

Neuro-endocrine pathogenesis of the lipid nephrosis. Radovi med.  
fak. Zagrebu. Vol. 2:100-125 1954.

1. Iz Pedijatricke klinike Medicinskog fakulteta u Zagrebu  
(predstojnik: prof. dr. Niko Skrivanelli.)  
(NEPHROSIS, in inf. & child  
lipoid, neuro-endocrine pathogen.)



ERAK, P.; GRCEVIC, N.

Subacute sclerosing leukoencephalitis. Neuropsihijatrija 2 no.3:  
145-151 1954.

1. Iz Klinike za dječje bolesti Med.fak. u Zagrebu (predst.prof.  
dr. N. Skrivaneli) Neuropsihijatrijske klinike Med.fak.u Zagrebu  
(predst.prof. dr R. Lopasic)  
(ENCEPHALITIS,  
subacute sclerosing leuko-encephalitis)

ERAK P.

SIRIVANEI, N., dr.; ERAK, P., dr.; KALAFATIC, Z., dr.; POTKONJAK, M., dr.

Clinical aspects, pathogenesis and therapy of acute poliomyelitis.  
Lijec. vjes. 76 no.5-6:195-208 1954.

1. Iz Dječje klinika Medicinskog fakulteta u Zagrebu.  
(POLIOMYELITIS, etiol. & pathogen.)

EL AK, Petar; FUSTAR, Antun

Therapeutic and metabolic results in the treatment of asthmatic children with minimal dosis of gamma globulin and with desensitization. A comparative analysis. Cesk. pediat. 20 no.3:249-258 Br '66.

1. Kinderklinik der Universität, Zagreb, und Thallassotheapeutisches Institut für Kinder "Dječje Selo", Makarska.

GENETICS

YUGOSLAVIA

ZERGOLLERN, Dr. Ljiljana, Clinic for Pediatric Diseases of the Medical Faculty (Klinika za dječje bolesti Medicinskog fakulteta) Zagreb-Rebro; Head (Predstojnik): Prof. Dr. P. Erak

"Cytogenetics and its Application in Clinical Medicine"

Belgrade, Medicinski Glasnik, Vol 20, No 5-6, May-June 1966, p. 175-177

Abstract: Historical outline: Garrod (alcaptonuria work), Von Winiwarterow (48 chromosomes in man) to Levan (46 found to be true in 1956); Lejeune (mongoloids have 47); cytogenetic materials and methods of work are described.

1/1

*ERAK, S.Sh.*

ERAK, S.Sh., KONNOV, P.A.; SOfINSKIY, Ye.A.

Raise the quality of planning railroad operations. Zhel.dor.transp.  
39 no.8:47-49 Ag '57. (MLBA 10:9)

1. Nachal'nik planovo-ekonomicheskogo otdela Donetskoy dorogi (for Erak).
  2. Nachal'nik planovo-ekonomicheskogo otdela Kuybyshevskoy dorogi (for Konnov).
  3. Starshiy inzhener planovo-ekonomicheskogo otdela Krasnoyarskoy dorogi (for Sofinskiy).
- (Railroads--Management)

ERAKOVIC, D.

(6)

- Belgrade, Sluzbeni list SFRJ, No 11, Nov 61
1. Procedura i uredba iz oblasti bezbednosti (Procedure and Regulations in the Field of Security) of the Federal Republic of Yugoslavia (Serbia and Montenegro) (Sluzbeni list SFRJ, No 11, Nov 61).
  2. Procedura i uredba iz oblasti bezbednosti (Procedure and Regulations in the Field of Security) of the Federal Republic of Yugoslavia (Serbia and Montenegro) (Sluzbeni list SFRJ, No 11, Nov 61).
  3. Procedura i uredba iz oblasti bezbednosti (Procedure and Regulations in the Field of Security) of the Federal Republic of Yugoslavia (Serbia and Montenegro) (Sluzbeni list SFRJ, No 11, Nov 61).
  4. Procedura i uredba iz oblasti bezbednosti (Procedure and Regulations in the Field of Security) of the Federal Republic of Yugoslavia (Serbia and Montenegro) (Sluzbeni list SFRJ, No 11, Nov 61).

-- V --

ERAYNTIN, D. D.

Steam units for heating automobiles and tractors parked in open air at lumber camps.  
Moskva, Goslesbumizdat, 1953. (Mic 55-3930)  
Collation of the original, as determined from the film: 73, 3 p.

Microfilm Slavic 432 T

ERAM, I.O.

Methodology and practice for the plan to reduce production costs.  
Bum.prom.30 no.7:25-28 J1'55. (MIRA 8:10)

1. Nachal'nik planovo-ekonomicheskogo otdela tsellyulozno-bumazhnogo  
kombinata "Sloka" (Paper industry)



BALASHOV, V.V.; BELYAYEV, V.B.; BRAMZHIAN, R.A.

[Calculation of two-nucleon correlations in the theory of  $\mu$ -capture by light nuclei] Uchet dvunuklennykh korrelyatsii v teorii  $\mu$ -zakhvata legkimi yadrami. Dubna, Ob"edinennyi in-t yadernykh issledovaniy, 1962. 11 p. / (MIRA 15:2)  
(Nuclear reactions) (Mesons)

S/056/62/043/004/057/061  
B1C4/B186

AUTHORS: Gershteyn, S. S., Nguyen Wang Kh'yeu, Eramzhyan, R. A.

TITLE: On the possibility of detecting neutral currents in experiments with neutrinos

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10): 1962, 1554-1556

TEXT: S. Bludman (Nuovo Cim., 9, 433, 1958) and Ya. B. Zel'dovich (ZhETF, 36, 1964, 1959) introduced terms of the form

$$L' = \frac{G}{\sqrt{2}} (\bar{\nu} \hat{O} \nu) (\bar{N} \hat{O} \tau_3 N), \quad \hat{O} = \gamma_\mu (1 + \gamma_5), \quad (1)$$

in the weak interaction Lagrangian. Through the interaction  $\nu + N \rightarrow \nu + N$  (2), these terms must lead to stars without any leptons resulting from the scattering of high-energy neutrinos on nuclei. With neutrino energies of 1 Bev, the above mentioned process had a cross section of about  $10^{-38} \text{ cm}^2$  and should therefore be detectable. Moreover,

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S/C56/62/043/004/057/061  
 B104/B186

On the possibility of detecting ...

it is possible to prove the interaction (2) in experiments with low-energy antineutrinos. This interaction leads to the excitation of nuclear levels:  $\bar{\nu} + Z \rightarrow \bar{\nu} + Z^*$  (3). This excitation can be observed from the characteristic emission  $Z^* \rightarrow Z + \gamma$ . The differential cross section of neutron scattering through the angle  $\theta$  with excitation of a nucleus has, in the case of an interaction described by (1), the form

$$d\sigma/d\Omega = (2\pi)^{-2} G^2 [a_0(1 + \cos\theta) + b_0(1 - \frac{1}{3} \cos\theta)] (E_\nu - \Delta E)^2, \quad (4), \text{ where}$$

$$a_0 = \left| \int d\tau \langle Z^* \left| \sum_A \tau_3 e^{ikr} \right| Z \rangle \right|^2, \quad b_0 = \left| \int d\tau \langle Z^* \left| \sum_A \tau_3 \sigma e^{ikr} \right| Z \rangle \right|^2, \quad (5),$$

$\Delta E$  is the excitation energy of the nucleus,  $E_\nu$  is the energy of the antineutrino. The total excitation cross section is

$$\sigma = \frac{G^2}{\pi} b_0 (E_\nu - \Delta E)^2. \quad (6).$$

Card 2/3

On the possibility of detecting ...

S/056/62/043/004/057/061  
B104/B186

As regards order of magnitude, this cross section is equal to the cross section of the process  $\bar{\nu} + p \rightarrow e^+ + n$  in the experiments of F. Reines and C. L. Cowan (Phys. Rev., 113, 273, 1959). The excitation of an  $\text{Li}^7$  nucleus is examined as an example. Using data of R. E. Carter et al. (Phys. Rev., 113, 280, 1959) the authors obtained

$$\sigma(\text{Li}^7) > \int_{\Delta E}^{\infty} p_e(E) \sigma(E) dE \approx 2 \cdot 10^{-22} \text{ cm}^2. \quad (7).$$

It is stated that the excited nuclei are polarized in the direction of motion of the antineutrino, and that therefore the gamma emission too has a definite polarization. This feature can be useful in distinguishing the process (3) from the background.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics of Moscow State University) (R. A. Eramzhyan)

SUBMITTED: July 31, 1962  
Card 3/3

KORENMAN, G.Ya.; ERAMZHYAN, R.A.

Angular distribution of recoil nuclei in the reaction  
 $\mu^- + \text{He}^3 \rightarrow \text{H}^3 + \gamma$ . Zhur. eksp. i teor. fiz. 45 no.4:  
1111-1113 0 '63. (MIRA 16:11)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo univer-  
siteta.

ERAMZHIAN, R. A.

"The Giant Resonance of Photodisintegration of the Nucleus  $Li^6$ ."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22  
Feb 64.

Moscow State Univ.

ACCESSION NR: AP4042963

S/0048/84/028/007/1181/1184

AUTHOR: Eramzhyan, R.A.

TITLE: Giant photodisintegration resonance of the lithium 6 nucleus /Report, 14th Annual Conference on Nuclear Spectroscopy held in Tbilisi 14-21 Feb 1964/

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v.28, no.7, 1964, 1181-1184

TOPIC TAGS: photonuclear reaction, nuclear resonance, lithium

ABSTRACT: A theoretical investigation of the photodisintegration of  $\text{Li}^6$  was undertaken because recent measurements (S.Costa, S.Ferroni, V.Wataghin and R.Malvano, Phys.Lett.4,308,1963) tend to confirm the opinion expressed by V.V.Balashov and the author (Tezisy\* III Vsesoyuznoy konferentsii po teorii elementarny\*kh chastits.Uzhgorod,1961) that the 12.5 MeV resonance (T.A.Romanowski and V.H.Voelker,Phys.Rev. 113,886,1959) represents only part of the giant resonance of this nucleus. The shell model as formulated by D.Wilkinson (Physica,22,1039,1956) was employed, Russell-Saunders coupling was assumed, and the center of mass effect was removed by diagonalizing the  $R^2$  operator. The mixed configuration wave functions resulting from this diagonalization are tabulated in an appendix. Two groups of resonances were found,

ACCESSION NR: AP4042963

centered at about 12.5 and 25 MeV, respectively. The lower energy resonance is due to absorption of the photon by a p nucleon and leads to disintegration of the nucleus by expulsion of a nucleon. The resonance of higher energy is due to photon absorption by an s nucleon. In this case the nucleus disintegrates preferentially into three bodies, and low energy deuterons should predominate in the spectrum. A less pronounced resonance, also due to absorption by an s nucleon, was found at 17 MeV. It is concluded that a double maximum of the photodisintegration cross section is characteristic of both  $Li^6$  and  $Li^7$ . The first maximum corresponds to the promotion of a 1p nucleon to a 1d or a 2s state, and the second to that of a 1s nucleon to a 1p state. "In conclusion, the author expresses his deep gratitude to V. V. Balashov for his constant interest in the work, and to V. G. Neudachin for valuable discussions of the results." Orig. art. has: 1 formula, 2 figures and 3 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Scientific Research Institute of Nuclear Physics, Moscow State University)

SUBMITTED: 23Nov63

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 007

2/2



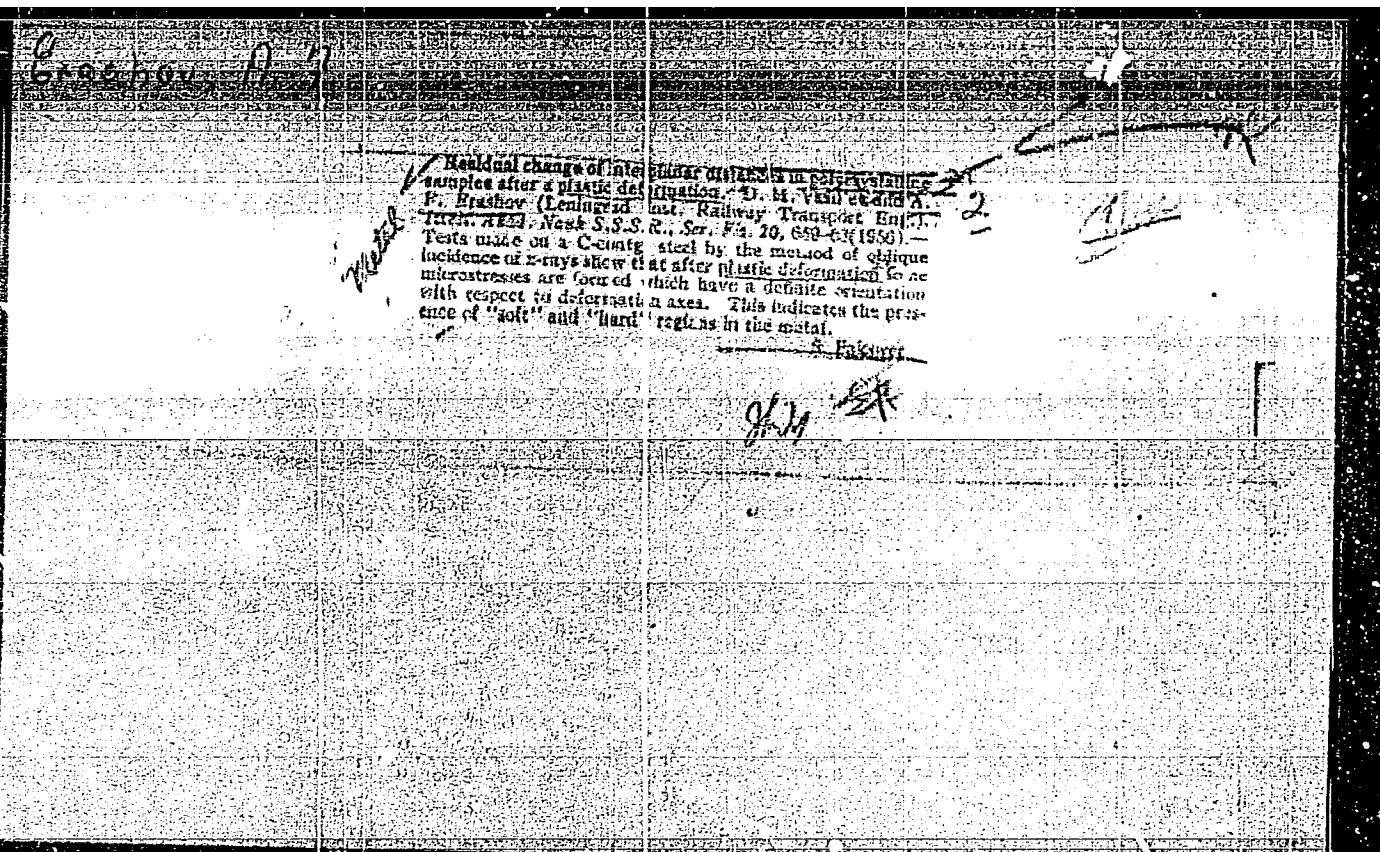
KONSTANTINOVA, V.M., inzh.; ERANS, K.Kh., inzh.

Portable Z-meter generator. Vest. sviazi 25 no.4:10-11 Ap '65.  
(MIRA 18:6)

FRARZEVA, M.

"Some experiences drawn from operating rotary screens. Tr. from the Russian." p. 337. (PREZGLAD PAPIERNICZY. Vol. 10, No. 11, Nov. 1954. Lodz, Poland)

SO: Monthly List of East European Accessions. (REAL). LC. Vol. 4. No. 4. April 1955. Uncl.



ERASHOVA, N.A.

The use of animal glue to improve the retention of clay in clay-filled paper. V. I. Alekin, N. A. Erashova, and T. P. Belskaya (1st Leningrad Paper Mill). *Bumazh. Prom.* 30, No. 12, 12-10(1945).—Animal glue (80 g./l.) was mixed 8 hrs. in the cold, heated to 40-50°, and chum soda added (0.7 kg. alum per cu. m; 7.46 soda.); the mixt. was let stand 17-20 hrs. at 8-10° with occasional stirring, add. to 12-14 g./l., and 0.54 kg. alum per cu. m; glue soda added; the add. glue mix was fed to the paper-machine Bkr across at the rate of 1.5-2 lb. per ton bone-dry fiber. Clay retention increased from 48 to 75-80% (clay content of paper 12-14%). The percentage solids in the white-water from the wire pit decreased 19%, from the suction boxes 27%, and from the couch 5.8%. Headbox freeness decreased and steam consumption in the driers increased. The ash content of the paper machine white-water fed to the groundwood mill decreased from 7-12 to 2-5%, and groundwood quality toward an improvement. John Lake Keava.

②

ERASIM, K.

"My experience with the CZ 150 motorcycle." p. 184 (Svet Motoru, Vol. 8, No. 168, Mar.  
1954, Praha)

Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June, 1954  
Incl.

ERASTOV, D. P.  
ERASTOV, D. P.

USSR/Technical Physics

Card 1/1

Authors : Lazarev, D. N., and Erastov, D. P.

Title : Infrared luminescence in reproduction technique

Periodical : Dokl. AN SSSR, 96, Ed. 2., 281 - 282, May 1954

Abstract : The laboratory for the conservation and restoration of old, faded, damaged, and discolored documents at the Acad. of Sc. USSR, tested a new method of reading extinct texts by photographing the documents with infrared luminescence. The photographed part of the document is illuminated with the light of a 300-watt, 110-v incandescent lamp which passed (the light) through a capacitor and container with copper sulfate solution which absorbs radiations with wave lengths greater than  $0.68\mu$ . Photo samples of such restoration work are included. Two USSR references since 1946. Graphs.

Institution : Academy of Sciences, Laboratory for Conservation and Restoration of Documents

Presented by : Academician A. N. Terenin, March 2, 1954

AUTHOR: Erastov, D.P.

SOV/32-24-9-47/53

TITLE: An Apparatus for the Luminescence Analysis With Three Ranges of Exciter Rays (Apparat dlya lyuminestsentnogo analiza s tremya diapazonami vzbuzhdayushchego izlucheniya)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1160-1161 (USSR)

ABSTRACT: To investigate documentary material according to the luminescence method a universal apparatus was constructed which makes it possible to obtain three different ranges of ultra-violet rays. The medium ultraviolet with a maximum at 310  $m\mu$ , the closer ultraviolet with a maximum at 350  $m\mu$ , and the total radiation 15 Watt luminescence lamps of two types serve as light sources: EUV-15 with its radiation maximum at 310  $m\mu$ , and SRK-15 for the closer ultraviolet with a maximum at 360  $m\mu$ . The visible light is absorbed by UFS-2 glasses. The intensity of the ultraviolet rays is the same as with the lamp PRK-4; the apparatus described has, however, some advantages as compared to that with PRK-4 lamps; e.g. also photographs of the visible luminescence and the blue-violet range of the spectrum can be taken. A diagram of the electric scheme of the apparatus as well as diagrams of the spectral radiations are given. There are 2 figures and 2 references, which are Soviet.

Card 1/2

An Apparatus for the Luminescence Analysis With  
Three Ranges of Exciter Rays

SOV/32-24-9-47/53

ASSOCIATION: Laboratoriya konservatsii i restavratsii dokumentov Akademii nauk  
SSSR (Laboratory for the Conservation and Restoration of Documents  
AS USSR)

Card 2/2



PETROVA-ZAVGORODNYAYA, A.P.; KRASOV, D.P.

Fluorescence analysis of paper contamination by mold fungi.  
Izv.AN SSSR.Ser.biol. no.3:403-411 My-Je '59. (MIRA 12:9)

1. Laboratory of Conservation and Restoration of Documents,  
Academy of Sciences of the U.S.S.R.

(PAPER--BACTERIOLOGY)

(MOLDS (BOTANY))

(FLUORESCENCE)

S/058/63/000/002/029/070  
A062/A101

AUTHOR: Erastov, D. P.

TITLE: Control of technological conditions in the reproduction technique of restoring faded images. Report 2. Physical bases of photographic restoration of faded images

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1963, 99, abstract 2D642  
(In collection: "Vopr. konservatsii i restavratsii bumagi i pergamenta". Moscow-Leningrad, AN SSSR, 1962, 65 - 71)

TEXT: A series of physical and photographic problems are considered, related to the improvement of the detail sharpness of an image when photographing faded texts. Whatever the origin of the secondary radiation (reflection of incident light or excitation by self-luminescence) used for the photograph, two principles of restoring the text are possible - increasing the contrast in the photographic image and producing optical conditions for increasing the contrast in the object itself. The first principle leads to carrying out all the stages of obtaining a final image with a reproduction coefficient higher than unity. Here a

Card 1/2

Control of technological conditions in...

S/058/63/000/002/029/070  
A062/A101

few variants can be realized, among which the multiple reprinting, the superimposition of a number of identical images etc. However, the possibilities then are limited by such factors as the reduction of the photographic width (at an increase of the contrast of the photolayers), the increase of the graininess (in reprinting deterioration of the resolution (when superimposing the images). The second principle leads to photographing within a narrow spectral zone where the distinction of the details of the object (and consequently also the contrast thereof) are maximum; a further reproduction improvement then necessitates to choose an exposure for which the optical densities of the details, subject to distinction, correspond to the straight-line portion of the characteristic curve.

A. Kartuzhanskiy

[Abstracter's note: Complete translation]

Card 2/2

TERASTOV, K. M., Engineer--

"Reach and Shape of Fuel Spray in the Air Stream in Application to  
VRD (High-Altitude Jet Engine)." Sub 19 Jun 47, Central Sci Res Inst of  
Aircraft Engine Building imeni P. I. Baranov (TsIAM)

Dissertations presented for degrees in science and engineering in  
Moscow in 1947.

SO: Sum.No. 457, 18 Apr 55

ERASTOV, L. P.

SA

537.311.33

5404. Formation of barrier layers in alloys by means of chemical compounds. S. G. Kalashikov and L. P. Erastov. J. Tech. Phys., USSR, 21, 129-34 (Feb., 1951) In Russian.

According to Davydov's and Schottky's theories the explanation of the rectifying effect is to be found in the curvature of the energy zones of a semi-conductor by a contact field. The direction of current passage must correspond to the metal with the lower work function, on which a negative potential is superimposed. This was demonstrated on suitable metals, i.e. Mg and Sb, and also on Zn. The intermetallic compounds of these metals,  $Mg_3Sb_2$  and  $ZnSb$ , have high resistivity and may be obtained by welding. A. V. and A. F. Joffe's theory of solid rectifiers states that in the rectifying phenomenon the contact of two semiconductors of different character of semiconductivity (electronic and hole-semiconductivity) is essential. These propositions were confirmed on the said intermetallic compounds.

B. F. Kraus

USSR/Physics - Semiconductors,  
Rectifying

Mar/Apr 52

"Formation of Rectifying Valve Layers by Means of  
Chemical Compounds in Alloys," S.G. Kalashnikov,  
L.P. Erastov

"Iz Ak Nauk, Ser Fiz" Vol XVI, No 2, p 154

Abbreviated text of report published in "Zhur Tekh  
Fiz" Vol XXI, No 2, 1951. Valve layer of inter-  
metallic compd of stoichiometric proportion is formed  
during elec welding of contact between Mg or Zn with  
Sb. One electrode has the shape of an edge.

Rectification coeff of Mg reaches  $10^5$ . Volt-amp  
characteristics are not linear, but sym. After  
some time the resistance of the valve layer in-  
creases and the rectifying properties deteriorate.

ERASTOV, L. N.

220188

81773

S/181/60/002/02/14/033  
B006/B067

24.7600

AUTHOR: Erastov, L. N.

TITLE: Inversion of the Thermoelectromotive Force<sup>1</sup> in the Region of  
Welded Metal Contacts<sup>16</sup>

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 2, pp. 275-276

TEXT: A previous paper has shown (Ref. 1) that in welded contacts of certain pairs of metals nonlinear current-voltage characteristics can be observed, which may be symmetrical or antisymmetrical. Also the resistance of the contacts proved to be much higher (by 3-8 orders of magnitude) than the one calculated theoretically. In the present paper, the author reports on investigations of the formation of symmetrical (non-rectified) and asymmetrical (rectified) characteristics. Since it may be assumed that asymmetrical characteristics are connected with the formation of electron-hole junctions in the region of welded contacts, the authors try to explain their existence by the distribution of thermoelectromotive forces in the transition layer and by their sign. Pure metals were used. They were heated either with high-frequency current or by passing current

Card 1/3

81773

Inversion of the Thermoelectromotive Force in  
the Region of Welded Metal Contacts

S/181/60/002/02/14/033  
B006/B067

ASSOCIATION: Fizicheskij fakul'tet MGU (Physics Department of Moscow  
State University)

SUBMITTED: April 20, 1959


X

Card 3/3



Detection of the Formation of Chemical Compounds S/181/60/002/02/15/033  
in Binary Alloys by the Method of Contact Welding B006/B067

In the case  $Te \rightarrow Mg$ , for example, the characteristic is strongly asymmetrical, and in the case  $Te \leftarrow Mg$  it is nonlinear but symmetrical. Analogous observations were made for Sb-Mg. Others are less dependent on the current direction. The results of measurement of the differential zero resistances of the welding contacts of various metal pairs are tabulated. The resistance  $R = \rho/2d$ , where  $\rho$  - resistivity and  $d$  - contact diameter. The data show that the resistance measured in the contact is 3-8 orders of magnitude higher than it would be if no chemical compounds were formed by the components. When using the same method for metals incapable of forming chemical compounds, the resistance values are close to the theoretical ones. When the welding contact shows marked resistance it may be assumed that the components have formed a compound; this method is well suited for a quick detection of chemical compounds in alloys. In conclusion, the author thanks Professor S. G. Kalashnikov for his interest in the paper and for discussions. There are 1 figure, 1 table, and 4 Soviet references.



Card 2/3

AUTHORS: Sokolov, S. N., Erastov, L. N. S/053/60/070/02/011/016  
B006/B007

TITLE: Demonstration of a Chain Reaction on a Model

PERIODICAL: Uspekhi fizicheskikh nauk, 1960, Vol 70, Nr 2, pp 377-379 (USSR)

ABSTRACT: The present article describes a model device of simple construction for the demonstration of chain reactions, which is based upon the principle of moving multicolored light signals. The electric wiring diagram is shown in figure 1, the arrangement of the lamps (a three-step idealized cascade) in three colors - nuclei, fragments, and neutrons - is shown in figure 2. The principle is already well-known from popular science expositions. There are 2 figures.

Card 1/1

AUTHORS: Sokolov, S. N., Erastov, L. N. S/053/60/070/02/012/016  
B006/B007

TITLE: An Experiment During a Lecture for the Determination of the Specific Heat of a Gas at Constant Pressure

PERIODICAL: Uspekhi fizicheskikh nauk, 1960, Vol 70, Nr 2, pp 379-380 (USSR)

ABSTRACT: A schematically represented device for the purpose of determining the specific heat of a gas, which is shown in a figure, is described. The  $c_p$ -determination is carried out according to the formula  $c_p = Q/G\Delta t$ , where G denotes the gas quantity, Q, the quantity of heat supplied, and  $\Delta t$ , the temperature increase of the gas. A  $c_p$ -determination by means of the device described takes 7 to 10 minutes. There is 1 figure. ✓

Card 1/1

*Erastov, P.N.*

ERASTOV, P.N.

[Program in mechanical drawing; for the Physics Faculty] Programma  
po chercheniu (dlia fizicheskogo fakul'teta. 1956. 1 p.  
(MIRA 11:3)

1. Moscow. Universitet.  
(Mechanical drawing--Study and teaching)