LIBER, L.D.

Automatic disconnection of conveyors in the clogging up of spouts. Metallurg 8 no.2:12 F '63. (MIRA 16:2)

1. Makeyevskiy metallurgicheskiy zavod.
(Sintering--Equipment and supplies)

USSR

Conditions favoring the formation of ergosterol in yeast culture. M. I. Livshits and L. I. Liber. *Trudy Vsesoyuz. Nauch.-Issledovatel. Vitamin Inst.* 4: 62–5(1953).—Reducing the rate of aeration from 14 to 5 l./min. increased the yeast ergosterol 20–60%; increases in N, P, and sugar above the established concn. lowered it. Seed yeast (40%) is optimum for the cultivation of yeast for purposes of increased ergosterol yield. B. S. Levine

LIBER, L.I.

USSR

The adaptation of acetic acid bacteria, Acetobacter melanogenum and A. suboxydans, to higher sorbitol concentrations. M. G. Golysheva and L. I. Liber. *Trudy Vsesoyuz. Nauch.-Issledovatel. Vitamin. Inst.* 7; 70-88(1953).—The initial sorbitol concn. of the nutrient medium for bacterial oxidation of sorbitol to sorbose can be raised to 20–24%. Adapted strains can be kept on a medium contg. 18–20% sorbitol to facilitate subsequent adaptation to still higher concns.

B. S. Levine

LIVSHITS, M.I.; LIBER, L.I.

Selection of yeast races with a high capacity to produce ergosterol on an industrial scale. Trudy VNIVI 5:151-154 '54. (MLRA 9:3)

1. Mikrobiologicheskaya laboratoriya.
(ERGOSTEROL) (YEAST)

GOLYSHEVA, M.G.; RAVAYEVA, M.Yu.; LIBER, L.I.

Microbiological method for the determination of vitamin B_{12} with the aid of Ochromonas malhamensis culture. Vop.med.khim. 6 no.1: 100-104 Ja-F '60. (MIRA 13:5)

1. All-Union Research Institute of Vitamins, Moscow.
(VITAMIN B_{12} chem.)
(PROTOZOA)

GOLYSHEVA, M.G.; ZHDANOVICH, Ye.S.; LIBER, L.I.

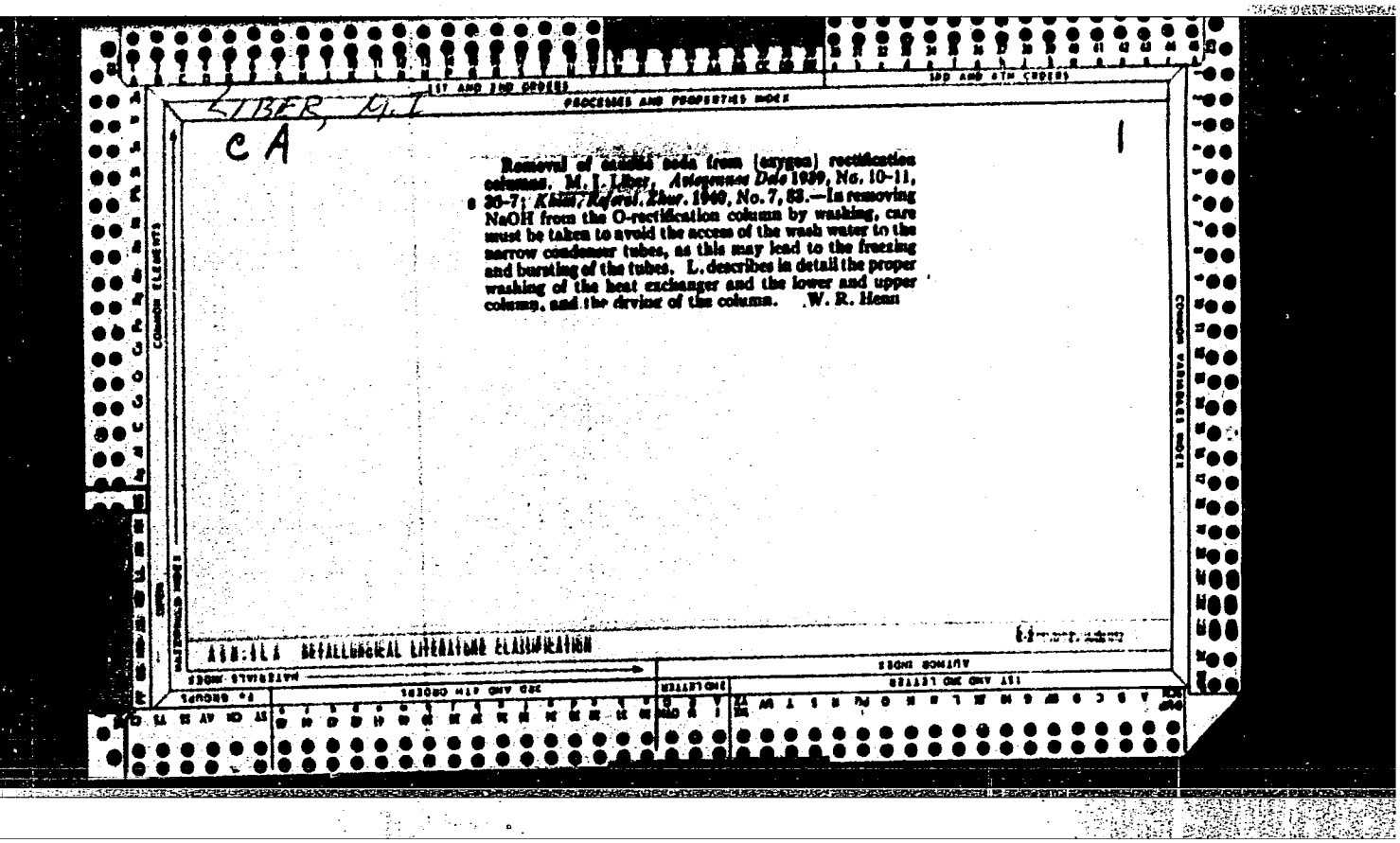
Preparation of flavine-adenine dinucleotide by a microbiological method using an Eremothecium ashbyii culture. Vop. med. khim. 9 no.4:371-373 Jl-Ag '63 (MIRA 17: 4)

1. Mikrobiologicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo vitaminnogo instituta, Moskva.

RUSANOVSCHI, Valeriu, ing.; LIBER, Misu

Rate setting of material consumption. Probleme econ 17 no.9:162-163 S '64.

1. Director, Rumanian Cotton Spinning Mill, Bucharest (for Rusanovschi). 2. Chief Accountant, Rumanian Cotton Spinning Mill, Bucharest (for Liber).



LIBER, M.I.

CA

1

Removal of caustic soda from (oxygen) rectification columns. M. I. Liber, *Avtogennoe Delo* 1939, No. 10–11, 26–7; *Khim. Referat. Zhur.* 1940, No. 7, 83.—In removing NaOH from the O-rectification column by washing, care must be taken to avoid the access of the wash water to the narrow condenser tubes, as this may lead to the freezing and bursting of the tubes. L. describes in detail the proper washing of the heat exchanger and the lower and upper columns, and the drying of the column. W. R. Henn

LIBER, M. I.

183T53

USSR/Engineering - Welding Jan 51

"Welding of Steel Applicances Subject to Enameling," M. I. Liber, V. M. Tsmel', Engineers

"Avtogen Delo" No 1, pp 14-16

Expts established electrodes, contg org products in their coating, evolve considerable amt of hydrogen which causes fish scale on enameled surface over welded joint. Specially developed electrode, UONI-13/55, eliminates defect. Good results also shown by automatic welding under flux and by repeated preburning of appliances followed by sand blasting.

183T53

LIBER, M. I.

PA 233T37

USSR/Metallurgy - Welding, Steel Jul 52

"Welding Titanium Steel Used for Enameling," M.I. Liber, Engr, Khimapparatproyekt

"Avtogen Delo" No 7, pp 10-13

Suggests new electrode, ET-1 (enamel titanium), made of titanium 08T steel with coating with aluminum protection but without ferromanganese or ferrosilicon. Coating consists of marble, fluorspar, feldspar, ferrotitanium, bentonite, aluminum powder, and water glass. This compn eliminates excessive alloying of weld metal with Mn and Si, thus decreasing its hardness. Considers titanium steel as most suitable for enameling since addn of Ti raises temp of austenite formation to 900° C and higher, preventing such defects of enameled products as fish scale.

233T37

PAL'CHUK, N. Yu., Eng; MAKAROV, N. I., Eng.; MAKEYEV, M. G. Eng; BRODOVICH, N. V., Eng; Liber, M. I., Eng.

Electric Welding

Welding with electrode cluster. Avtog. delo, 23, No. 6, 1952.

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

SHMIDMAN, V. N. ; LIBER, M. I. (Engs.)

Welding

Automatic Flux welding of a thin-walled tare. Avtog. delo 23, No. 8, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress. November 1952. UNCLASSIFIED.

LIBER, V. P.

Kratkii spravochnik gal'vanostega. Moskva, Mashgiz, 1946. 102 p. tables.

(Concise handbook of electroplating.)

CU DLC: TS660.L5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

LIBER, V. P.

"Economy of Electric Power in Electroplating Shops," Collection of Data of the Scientific and Technical Session on Electric Power Economy (Sbornik materialov nauchno-tekhnicheskoy sessii po ekonomii elektroenergii), No II, MONITOE, 1949, 139 pp.

All-Union Scientific and Technical Society of Power Engineers Moscow Division, Industrial Electrical Engineering Section.

W - 15368, 6 Dec 50

MALYAR, S.M.; FRIDENTAL, S.Kh.; KATSNEL'SON, Ye.A.; KUZNETSOV, F.F.; LIBER, V.P.; DEGTYAREV, I.T.

Fork lift with hydraulic control for the T-107 tractor loader. Rats. i izobr.predl. v stroi. no.89:6-9 '54. (MLRA 9:6)
(Lumbering--Machinery) (Loading and unloading)

LIBER,V.P., inzhener

Wagon for transporting and the pneumatic unloading of cement.
Mekh. trud. rab. 9 no.7:16-18 Jl '55. (MLRA 8:9)
(Cement--Transportation)

KUZNETSOV, F.F.; MALYAR, S.P.; LIBER, V.P.

Detachable equipment for ditch digging machinery to be used in working frozen ground. Rats. i izobr.predl. v stroi. no.125:18-23 '55. (Excavating machinery) (Frozen ground) (MLRA 9:7)

LIBER, V.Ye. (Moskva)

Operating modes of a three-phase rectifier with a network "two reversed wyes and equalizing reactor and nonlinear anode inductances." Izv. AN SSSR. Energ. i transp. no.4:492-503 Jl-Ag '64.
(MIRA 17:10)

KUBACKI, Jozef; LIBERA, Irenеusz

Diagnosis of tuberculous sacro-iliitis. Pol. tyg. lek. 17 no.48: 1870-1873 26 O '62.

1. Z I Kliniki Chorob Wewnetrznych Sl. AM w Katowicach; kierownik: prof. dr med. Jozef Japa i z Wojewodzkiego Osrodka Reumatologicznego w Goczalkowicach; konsultant: doc. dr Jozef Kubacki.
(TUBERCULOSISOSTEOARTICULAR) (SACROILIAC JOINT)

LIBERA, K.

GEOGRAPHY & GEOLOGY

Periodical: RUCH TURYSTYCZNY No. 1, July/Sept. 1957.

LIBERA, K. Needs and purposefulness of the research on tourist trade. p. 4.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5 May 1959, Unclass.

LIBERA, K.

GEOGRAPHY & GEOLOGY

Periodical: RUCH TURYSTYCZNY. No. 1, Jan./Mar. 1958

LIBERA, K. International Association of Scientific Experts on Tourism. p. 87.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 5, May 1959, Unclass.

HABERSKI, Aleksander; LIBERACKI, Janusz

Influence of extended carbonization on the quality characteristics of blast-furnace coke as seen from the example of one Polish coking plant. Koks 8 no. 6:205-211 D '63.

1. Instytut Chemicznej Przerobki Wegla, Zabrze.

LIBERACKI, Janusz; NADZIAKIEWICZ, Julian

Studies on the influence of coked coal upon the reactivity of coke.
Kosk 9 no.2:40-45 Mr-Ap '64.

1. Institute of Chemical Coal Processing, Zabrze.

LIBERACKI, Mieczyslaw; MURAWSKI, Tadeusz

Certain problems of the Quaternary in the Wda River Valley below Grodek. Nauki matem przyrod Torun no.10:21-56 '64.

1. Department of Physical Geography of the N. Copernicus University, Torun, and Department of Geomorphology and Hydrography of the Institute of Geography, Torun, of the Polish Academy of Sciences.

FISZER, Jozef, mgr inz.; LIBERADZKI, Boleslaw, mgr inz.

Supplying the population and industry with water in Hungary,
Gosp wodna 22 no.9:418-420 S '62.

LIBERBERG, T.I.

USSR/Physics - Solid state FD 403

Card 1/1

Author : Liberberg, T. I., and Tolpygo, K. B.

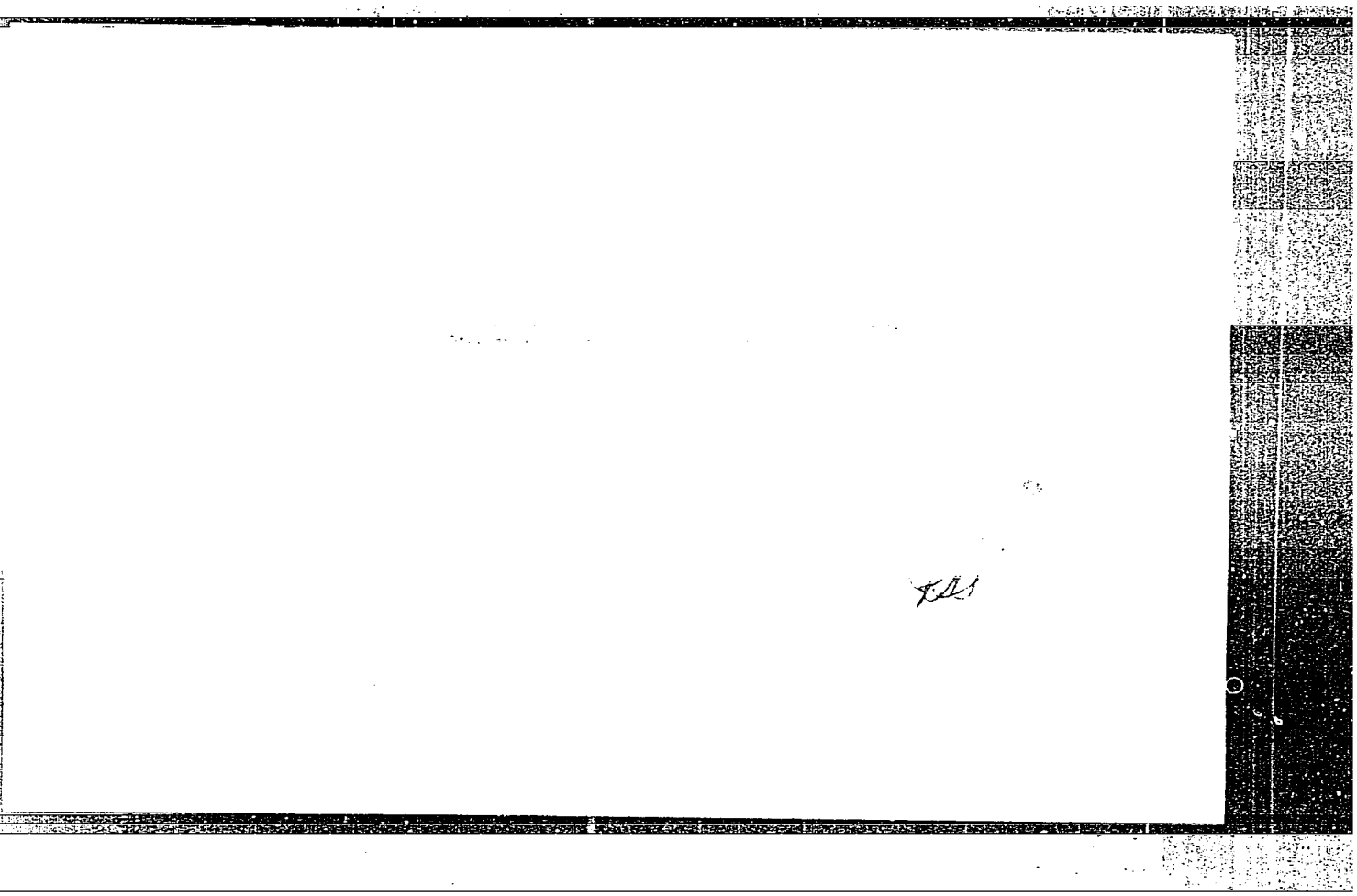
Title : Many-electron treatment of the motion of an electron (hole) in an excited crystal

Periodical : Zhur. eksp. i teor. fiz. 26, 35-41, Jan 1954

Abstract : Discuss the motion of an electron (or hole) introduced extra into a dielectric in a field of any defect. Employ the many-electron equation approximated for the case of strongly bound electrons. Take into account here the deformation of atoms (ions) by the field of the extra charge added. Utilizing Hardy's approximation the authors succeed in reducing the problem to the solution of a partial derivative equation for one particle. This equation turns out to be convenient also for the case of the "hole". Treat special cases of very narrow and very wide potential wells created by the defect. Establish a connection with the potential of the defect. Thank Prof S. I. Pekar for his critical comments.

Institution : Kiev State University and Zhitomir Pedagogic Institute

Submitted : March 18, 1953



LIBERBERG-KUCHER, T.I.

Category : USSR/Solid State Physics - Solid State Theory. Geometric Crystallography E-2

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3667

Author : Liberberg-Kucher, T.I.
Inst : Zhitomir Pedagogical Institute, USSR
Title : Interaction Energy Between Point Charges in an Ionic Crystal

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 4, 724-733

Abstract : The interaction energy of two point charges, placed in neighboring lattice points, was calculated by the microscopic method. The ions are assumed to be fixed at the lattice points, and all that are calculated are the interactions between the charges and the dipole moments they induce in the electron shells, and the interactions of the dipole mcments between themselves. The calculations are performed by expanding the dipole moments and the fields they produce into Fourier series. In the KCl crystal the energy of interaction of charges, located in the nearest K^+ -- K^+ lattice points is 111%, that for the Cl^- -- Cl^- lattice points is 117%, and that for the K^+ -- Cl^- lattice points is 120% of the macroscopic value of the e^2/n_0^2r, where n_0 is the optical index of refraction. The same method

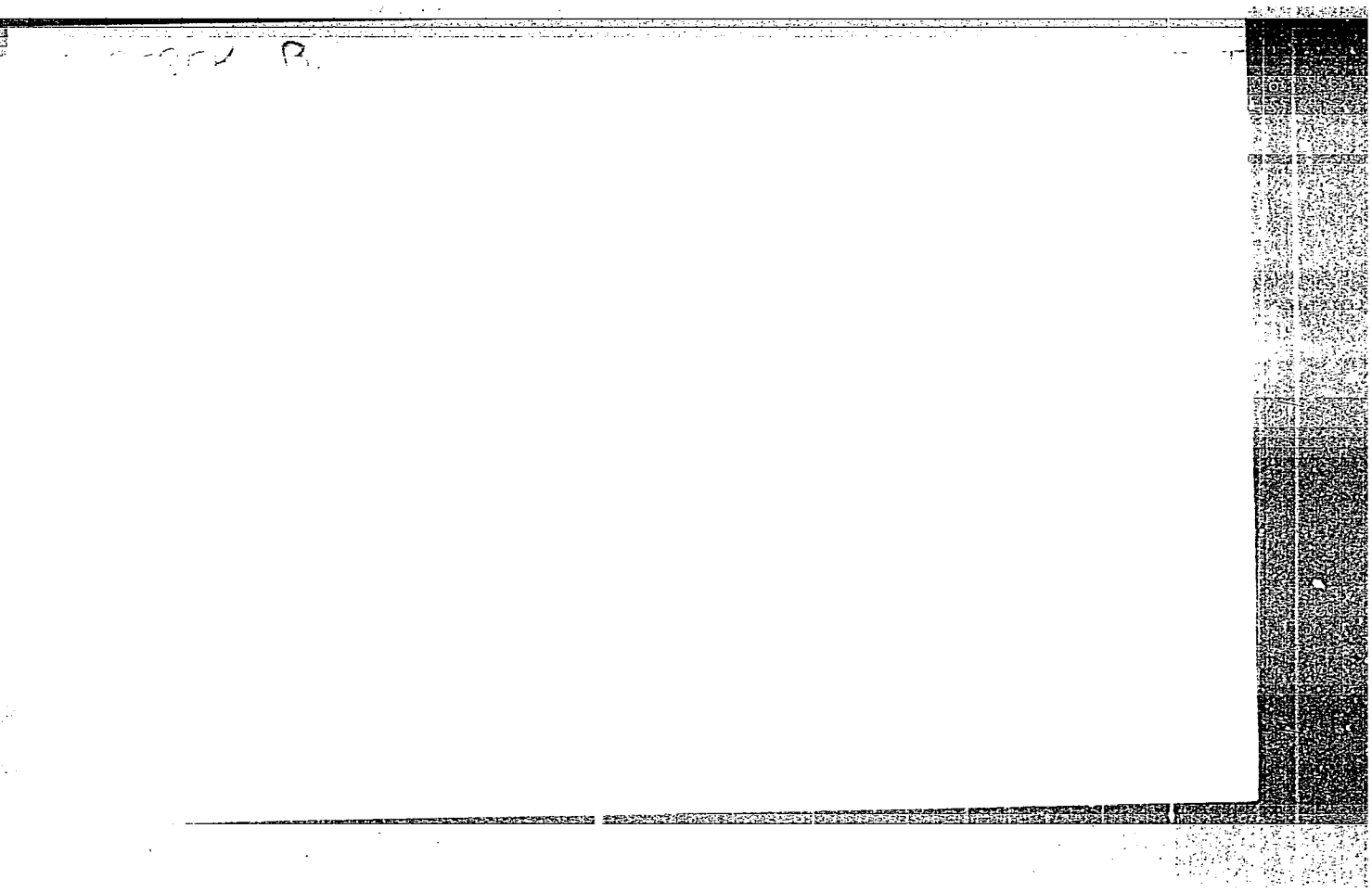
Card : 1/2

Category : USSR/Solid State Physics - Solid State Theory . Geometric Crystallography E-2

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3667

was used to calculate the charge produced in the field of the dipoles it produces; this energy is compared with data by other investigators.

Card : 2/2



APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929810

POLAND / Organic Chemistry. Natural Compounds and Their Synthetic Analogs. G-3

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77856.

Author : Taschner, E., Kupryszewski, G., and Liberek, B.
Inst : Not given.
Title : On the Selective Cleavage of Ester Groups in N-acylated Amino Acids and Peptides During Acidolysis.

Orig Pub: Roczniki Chem, 30, No 2, 643-646 (1956) (in Polish with an English summary).

Abstract: $C_6H_5CONHCCH_2COOR$ (I), where R = CH_3, C_2H_5, $CH(CH_3)_2$, or $CH_2C_6H_5$ (Ia), as well as the ester of the peptide [sic] $C_6H_5CONHCH_2CONHCH(COOCH_3)CH_2C_6H_4OH$ 4 are selectively cleaved at the ester group at about 20° after 4-6 days

Card 1/2

COUNTRY : Poland
CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No. 78750

AUTHOR : Taschner, E., Kupryszewski, G., and Liberek, B.
INST. : Not given
TITLE : Acidolysis. II. Investigation of the Cleavage of Esters of N-Acylated Amino Acids and Peptides.

ORIG. PUB. : Roczniki Chem, 32, no 5, 1107-1113 (1958)

ABSTRACT : The authors have studied the effect of temperature, reaction time, and various organic acids and catalysts on the degree of acidolysis. The experiments were carried out in the main on esters of hippuric acid. The optimum reaction medium is glacial CH_3COOH with HBr as catalyst (1-1.5 mol per mol of ester; 4-6 days, about 20°). Following distillation of the CH_3COOH and HBr under vacuum, the residue is dissolved in ethyl acetate or in ether, extracted with a

CARD: 1/4

CATEGORY : Poland
CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No. 78750

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : solution of Na_2CO_3, and acidified. The yield of N-acylated acids or of dipeptides is 80-90%. The authors have confirmed that the degree of cleavage is independent of the nature of the alcohol residue. The esters of N-phthalyl- and N,N'-dibenzoylamino acids form an exception: the cleavage of the methyl ester of phthalylglycine attains 89%, while that of the ethyl ester is only 55%; the ethyl ester of N,N'-dibenzoylglycine is not cleaved, apparently because of steric

CARD: 2/4

TASCHNER, E.; LIBEREK, B.

On splitting of the esters of carboxylic acids with lithium salts and on the mechanism of this reaction. Bul.Ac.Pol.chim. 7 no.12: 877-880 '59. (REAI 9:5)

(Esters) (Carboxylic acids) (Lithium)

LIBEREK, B.

The nitrile group in peptide chemistry. III. Bul chim PAN 10 no.8: 407-412 '62.

1. Department of Chemistry, Normal School, Gdansk. Presented by T. Urbanski.

LIBEREK, B.; NOWICKA, A.

The nitrile group in peptide chemistry. IV. Bul chim PAN 10 no.8:413-416 '62.

1. Department of Chemistry, Normal School, Gdansk. Presented by T. Urbanski.

LIBEREK, B.

Racemization during peptide synthesis. Pt. 4. Bul chim PAN 11 no.12:677-685 '63.

1. Department of Chemistry, Normal School, Gdansk. Presented by T. Urbanski.

LIBEREK, B.; GRZONKA, Z.

Racemization during peptide synthesis. Pt.7. Bul chim PAN 12 no.6:367-373 '64.

1. Department of General Chemistry of the Teachers College, Gdansk. Submitted March 25, 1964.

LIBEREK, B.; GRZONKA, Z.; MICHALIK, A.

Racemization during peptide synthesis. Pt.8. Bul chim PAN 12 no.6:375-381 '64.

1. Department of General Chemistry of Teachers College, Gdansk. Submitted March 25, 1964.

LIBERFARB, A. S. Doc Med Sci

Dissertation: "Tonic Reflexes of Normal Animals and Man"

21 Jan 49

Moscow Medical Institute, Ministry of Public Health, RSFSR

SO Vecheryaya Moskva
Sum 71

LIBERG, L. A.—"Investigation of Three-Dimensional Lever Mechanisms by the Method of Orthogonal Projection (Determination of Positions, Trajectories, Individual Points and Lenghts of Elements)." Min Higher Education USSR. Leningrad Order of Labor Red Banner Inst imeni Leningrad Soviet. Chair of Descriptive Geometry and Graphics. Leningrad, 1955. (Dissertation for the Degree of Candidate in Technical Science).

SO Knizhanay letopis'
No 2, 1956

LIBERG, L.A.

Graphic method for determining the length of members performing a three-dimensional motion in lever mechanisms. Trudy Inst. mash. 19 no.76:5-16 '59. (MIRA 13:3)
(Mechanical movements--Graphic methods)

LIBERG, L.A.

Graphic determination of limit positions of links in crank-lever mechanisms. Trudy LTI no.50:195-209 '59. (MIRA 14:3)
(Mechanical movements--Graphic methods)

LIBERG, L.A.

Graphic determination of the radius of a three-dimensional four-bar linkage. Trudy Inst.mash.Sem.po teor.mash. 22 no.85/86:30-37 '61. (MIRA 14:12)

(Mechanical movements)

SIELICKA-ZUBER, Luiza; LIBERGAL, Samuel

Sensitization to phenactyl in pharmaceutical workers. Med. pracy 16 no.1:45-52 '65

1. Z Kliniki Dermatologicznej we Wroclawiu (Kierownik: doc. dr. J.Kubicz).

SAYENKO, I.G.; MITIN, V.I.; LIBERIS, V.V.

Rapid welding in carbon dioxide with large diameter electrode wires.
Avtom svar. 17 no.3:65-66 Mr '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti.

LIBERKHEYN, N.N.

PHASE I Treasure Island Bibliographic Report

BOOK: Author: LIBERKHEYN, N. N., and PAVLOVSKIY, B. V. Call No.: ATICIC4325
Full Title: SOUNDPROOFING OF AIRCRAFT
Transliterated Title: Zvukoizolyatsiya samoletov
Publishing Data
Originating Agency: None
Publishing House: State Publishing House of the Defense Industry (Oborongiz)
Date: 1950 No. pp.: 108 No. of copies: 2,500
Editorial Staff
Editor: Antsyferov, N. S., Bachelor of Science Technical Editor: None
Editor-in-Chief: None Appraiser: None
Others: A group of workers headed by Nesterov, Bachelor of Science, completed the study of soundproofing materials.

Shapiro, B.K., Bachelor of Science, headed a group of workers which executed flight tests. The authors directly cooperated in these tests.

Antsyferov, M.S., Bachelor of Science, wrote chapter 1,: "General Information on Technical and Physical Acoustics".

Gratitude is expressed to Rzhevkin, S.N., Professor, for a number of valuable remarks on the manuscript.

1/2

Call No.: ATICIC4325

Full Title: SOUNDPROOFING OF AIRCRAFT

Text Data

Coverage: Combatting noise in aircraft is the theme of this book. The general information on acoustics, indispensable for planning aircraft soundproofing, is included. A method of calculating aircraft soundproofing and the characteristics of special soundproofing materials are given. There is a short description of acoustic testing of individual materials and of ground and airborne aircraft installations.

Purpose: A book for graduate engineers concerned with the problem of aircraft soundproofing. The book has numerous charts, diagrams, and tables.

Facilities: Scientific Research Institute of Physics (NIIF) at the Moscow State University.

No. Russian and Slavic References: 9

Available: A.I.D., Library of Congress.

KRUTIKOV, A.; SELISHCHEV, G.; GABIS, V.; LIBERMAN, A.; KOMNOVA, L.; BUT, A.; SUTANKIN, A.; ZHEROMSKAYA

Unremitting attention to self-service stores! Sov.torg. 33 no.7:12-13 Jl '60. (MIRA 13:7)

1. Direktor moskovskogo magazina samoobsluzhivaniya "Gastronom" No.65 (for Krutikov). 2. Direktor moskovskogo magazina samoobsluzhivaniya "Gastronom" No.64 (for Selishchev). 3. Direktor magazina No.65 Moskvoretskogo RPT (for Gabis). 4. Direktor moskovskoy bulochnoy No.44 (for Liberman). 5. Direktor moskovskoy bulochnoy No.367 (for Komnova). 6. Direktor moskovskogo magazina samoobsluzhivaniya "Mosovoshch" (for But). 7. Direktor moskovskogo magazina samoobsluzhivaniya No.78 "Mosmoloko" (for Sutankin). 8. Zamestitel' direktora magazina No.22 "Ogonek" Sverdlovskogo RPT (for Zheromskaya).
(Self-service stores)

DUEL', M.A., kand. tekhn. nauk; GOPP, A.Yu., inzh.; ZAK, I.D., inzh.; MAR'YENKO, A.F., inzh.; LIBERMAN, A.A., inzh.; SHTEFAN, V.Ye., inzh.

Results of the tests of information input systems of a computer controlling a power system. Energ. i elektrotekh. prom. no.3:7-11 Jl-S '65. (MIRA 18:9)

SHTEFAN, V.Ye.; LIBERMAN, A.A.; POMERANTSEV, O.V.

Automation of work processes in the Kharkov No.2 Hydroelectric Power Station. Energ. i elektrotekh. prom. no.2:3-6 Ap-Je '62. (MIRA 15:6)

(Kharkov Hydroelectric Power Station)
(Automatic control)

ODNORALOV, N.V.; LIBERMAN, A.B., spetsredaktor; LANGE, V.I., redaktor; MEL'NIKOVA, N.V., tekhredaktor.

[Decorative finishing of metal consumers' goods] Dekorativnaia otdelka metallicheskikh izdelii shirokogo potrebleniia. Moskva, Rosgizmestprom, 1954. 102 p. (MLRA 7:11)
(Metals--Finishing)

PAVLOVSKIY, L.L.; LIBERMAN, A.B.

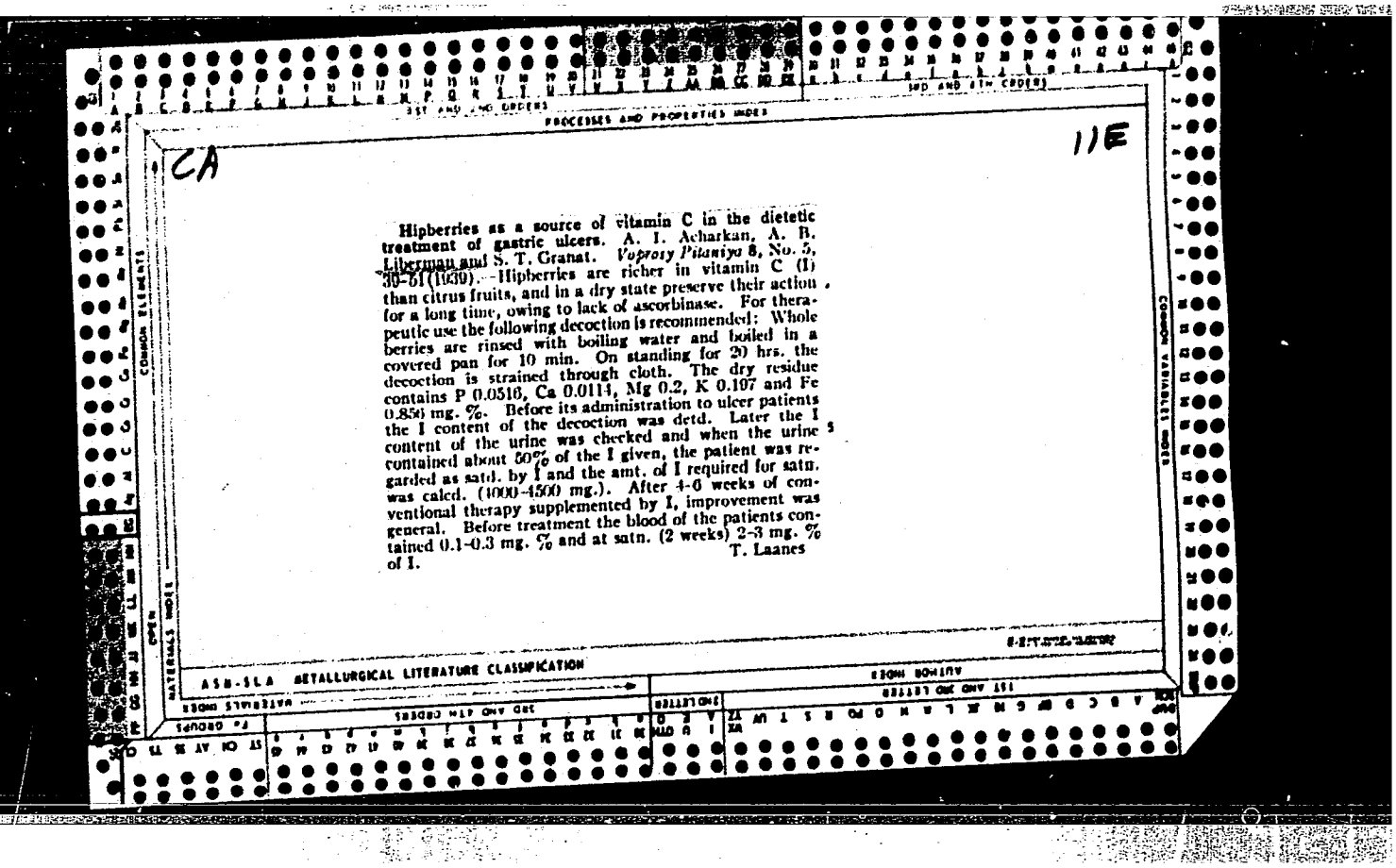
Effect of the method of the surface preparation of the product on the value of the coefficient of metal absorption in radiant heat drying of coatings. Lakokras.mat.i ikh prim. no.2:46-47 '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy institut tekhnologii lakokrasochnykh pokrytiy.

(Protective coatings--Drying)

PAVLOVSKIY, L.L.; Prinimali uchastiye: MATYUK, F.M.; GOGOLINA, L.I.; SERGUNINA, V.A.; SIDORINA, N.I.; LIBERMAN, A.B.; ROMANOVA, L.V.; PROTSENKO, T.V.; YAKUNINA, L.G.

Selecting the optimum system for drying paint coatings in thermosetting dryers. Lakokras.mat. i ikh prim. no.2:45-48 '64. (MIRA 17:4)

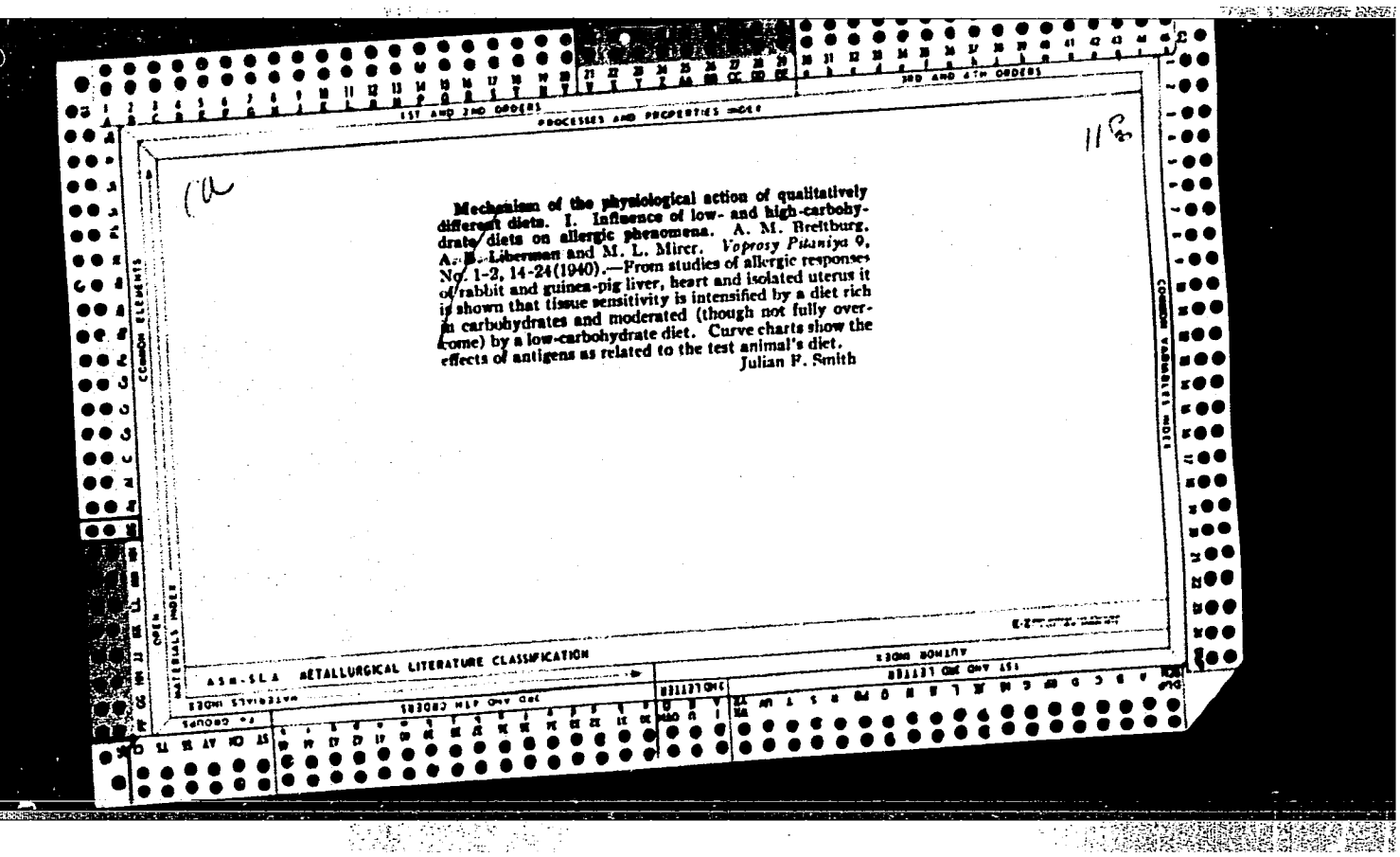


CA

11E

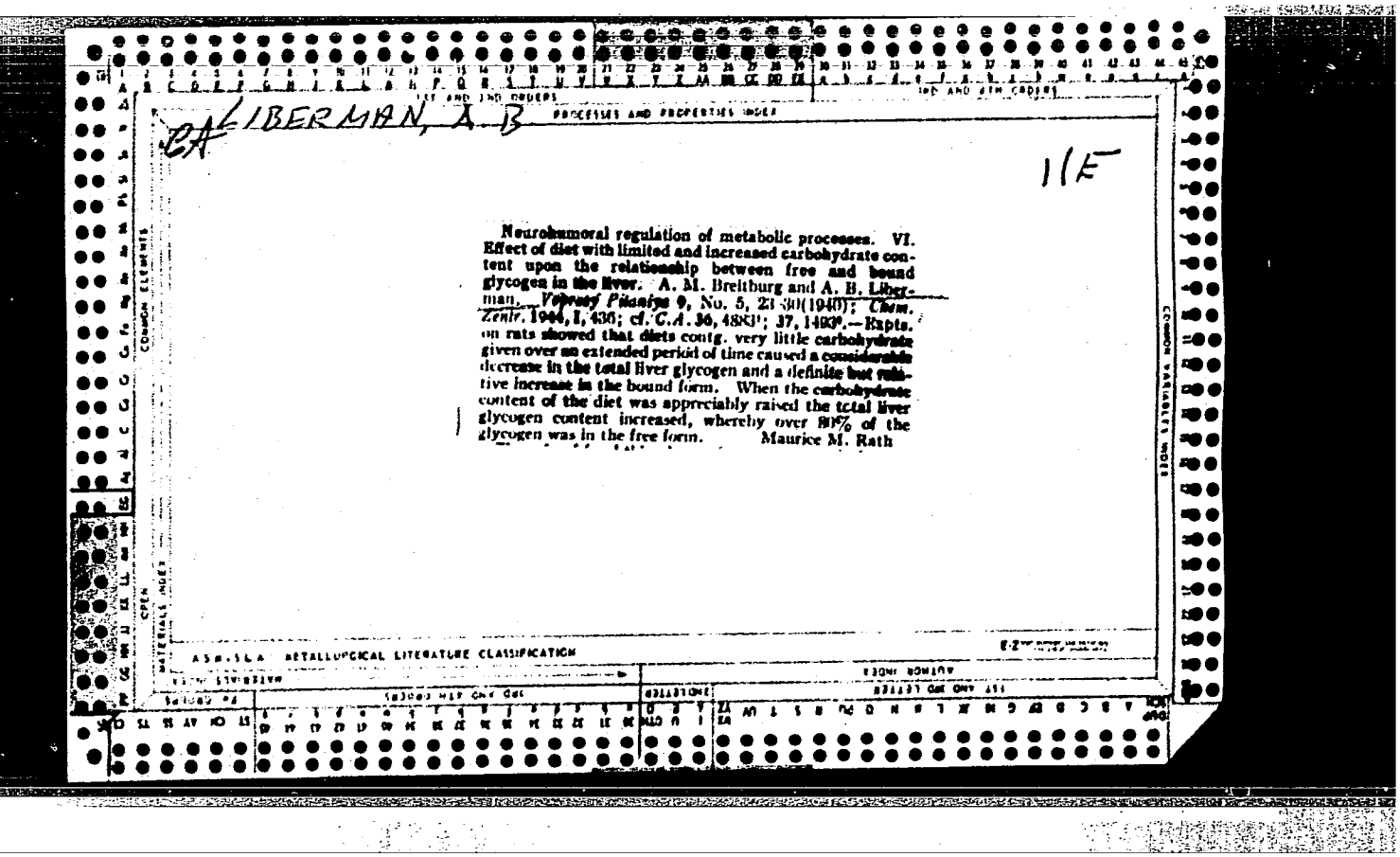
Hipberries as a source of vitamin C in the dietetic treatment of gastric ulcers. A. I. Acharkan, A. B. Liberman and S. T. Granat. *Voprosy Pitaniya* 8, No. 5, 30–31(1939).—Hipberries are richer in vitamin C (I) than citrus fruits, and in a dry state preserve their action for a long time, owing to lack of ascorbinase. For therapeutic use the following decoction is recommended: Whole berries are rinsed with boiling water and boiled in a covered pan for 10 min. On standing for 20 hrs. the decoction is strained through cloth. The dry residue contains P 0.0516, Ca 0.0114, Mg 0.2, K 0.107 and Fe 0.856 mg. %. Before its administration to ulcer patients the I content of the decoction was detd. Later the I content of the urine was checked and when the urine contained about 50% of the I given, the patient was regarded as satd. by I and the amt. of I required for satn. was calcd. (1000–4500 mg.). After 4–6 weeks of conventional therapy supplemented by I, improvement was general. Before treatment the blood of the patients contained 0.1–0.3 mg. % and at satn. (2 weeks) 2–3 mg. % of I.

T. Laanes



Mechanism of the physiological action of qualitatively different diets. I. Influence of low- and high-carbohydrate diets on allergic phenomena. A. M. Breitburg, A. B. Liberman and M. L. Mirer. *Voprosy Pitaniya* 9, No. 1-2, 14-24 (1940).—From studies of allergic responses of rabbit and guinea-pig liver, heart and isolated uterus it is shown that tissue sensitivity is intensified by a diet rich in carbohydrates and moderated (though not fully overcome) by a low-carbohydrate diet. Curve charts show the effects of antigens as related to the test animal's diet.

Julian F. Smith



LIBERMAN, A. B.

11E

Neurohumoral regulation of metabolic processes. VI. Effect of diet with limited and increased carbohydrate content upon the relationship between free and bound glycogen in the liver. A. M. Breitburg and A. B. Liberman. *Voprosy Pitaniya* 9, No. 5, 23-30(1940); *Chem. Zentr.* 1944, I, 436; cf. *C.A.* 36, 4881[1]; 37, 1493[9].—Expts. on rats showed that diets contg. very little carbohydrate given over an extended period of time caused a considerable decrease in the total liver glycogen and a definite but relative increase in the bound form. When the carbohydrate content of the diet was appreciably raised the total liver glycogen content increased, whereby over 80% of the glycogen was in the free form. Maurice M. Rath

LEVITSKIY, L.M., doktor med.nauk; YEGOROV, M.N., prof.; KUDINOVA, T.I.; LIBERMAN, A.B.; ZIKEYEVA, V.K. (Moskva)

Associated antibiotic and dietetic therapy in chronic infectious angiocholecystitis [with summary in English]. Klin.med. 37 no.2: 79-87 F '59. (MIRA 12:3)

1. Iz kliniki lechebnogo pitaniya (zav. - prof. F.K. Men'shikov) Instituta pitaniya AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.P. Molchanova).

(CHOLECYSTITIS, therapy,
antibiotics & diet ther. in chronic infect. angiocholecystitis (Rus))
(BILE DUCTS, dis.
chronic infect. angiocholecystitis, antibiotic & diet ther. (Rus))
(ANTIBIOTICS, ther. use,
chronic infect. angiocholecystitis, with diet ther. (Rus))
(DIETS, in var. dis.
chronic infect. angiocholecystitis, with antibiotics (Rus))

VOLKOV, N. G. Inzh. i LIBERMAN, A. D., Kand. Tekhn. Nauk., SHELKOVSKIY, V. M. Inzh.

Ukrainskiy Nauchnoissledovatel'skiy Institut sooruzhniy Mnogoetazhnyye sbornyye zhilyye
doma karkasnopanel'noy Konstruktsii Page 69

SO: Collections of Annotations of Scientific Research Work on Construction, completed in 1950.
Moscow, 1951

LIBERMAN, A. D., Kandidaty Tekhn. Nauk, I

Dubinskiy, A. M., I, and Shelkovskiy, V. M., Inzh.

Ukrainskiy Naucho-Issledovatel'skiy Institut Sooruzheniy

Skladnyye Stropila Dlya Zhilykh i Grazhdanskikh Zdaniy. Page 39

SO: Sbornik Annotatsiy Nauchno-Issledovatel'skikh Rabot po Stroitel'stvu, Moscow 1951

YARIN, V.N., professor, zaslushennyy deyatel' nauki i tekhniki Ukrainskoy SSR; ULITSKIY, I.I., kandidat tekhnicheskikh nauk, dotsent; LIBERMAN, A.D., kandidat tekhnicheskikh nauk; RUSINOV, I.A., kandidat tekhnicheskikh nauk.

Experimental investigation of reinforced-concrete sloped double-camber panels. Nov. v stroi. tekh. no.7:37-69 '55. (MLRA 9:11)

1. Kiyevskiy inzhenerno-stroitel'nyy institut i UkrNIIS MG i SS USSR.

(Precast concrete construction)

LIBERMAN, A.D.

DUBINSKIY, Abram Markovich, kandidat tekhnicheskikh nauk; LIBERMAN, Al'fred Davidovich, kandidat tekhnicheskikh nauk; ANDRUSHCHENKO, V., redaktor; IOAKIMIS, A., tekhnicheskiy redaktor

[Production of precast reinforced concrete in construction yards] Izgotovlenie sbornogo zhelezobetona na poligonakh. Kiev, Gos. izd-vo lit-ry po stroit. i arkhitekture USSR, 1956. 109 p.(MLRA 10:2)
(Precast concrete)

LIBERMAN, A.D. (Kiiv)

Designing deme roofing for buildings utilizing symmetry. Prikl.mekh. 2 no.2:196-203 '56. (MLRA 9:10)

1.Ukrains'kiy naukovo-doslidniy institut sporud.
(Domes)

LIBERMAN, A.

USSR/Chemical Technology -- Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1737

Author: Liberman, A.

Institution: None

Title: A New Insulation Material

Original Periodical: Stroit. materialy, izdeliya, i konstruktsii, 1956, No 6, 28-29

Abstract: Wool-concrete, a new insulation material, is prepared from granulated mineral wool, using cement, gypsum, or clay as binders. The bulk density of wool-concrete produced from cement is 500-700 kg/m^3, the coefficient of thermal expansion is 0.12-0.16 kcal/m/hr/deg, the compression strength is 5-10 kg/cm^2, the moisture content is 7%, water absorption is 60-65%. The following is a list of materials used in the preparation of wool-concrete with a bulk density of 600 kg/m^3: granulated wool 300-310; cement 200; fine sand 80-100; water 580-600 kg. Articles made of wool-concrete have to be produced in forms. The setting time at a temperature of 15-20° is 3-4 days.

Card 1/1

LIBERMAN, A.D., kandidat ekhnicheskikh nauk; KALMANOVSKIY, D.I., inzhener.

Precast reinforced concrete schoolhouse roof. Biul.stroi.tekh.13 no.10:19-21 O '56. (MLRA 10:1)
(Roofs) (Precast concrete construction)

LIBERMAN, A., kand.tekhn.nauk.

Composite reinforced concrete frames with 12, 15, and 18 m span-lengths. Gor. i sel'. stroi. no.12:8-12 D '57. (MIRA 11:2)
(Girders)

LIBERMAN, A.D., kandidat tekhnicheskikh nauk.

Separate precast reinforced concrete flooring slabs. Biul. stroi. tekh. 14 no.4:15-17 Ap '57. (MLRA 10:6)

1. NIISK Akademii stroitel'stva i arkhitektury USSR.
(Concrete slabs) (Insulation (Sound))

SOV/97/58/2/3/16

AUTHOR: Liberman, A.D., Candidate of Technical Sciences.

TITLE: Stands for Investigating Precast Reinforced Concrete Beams and Frames (Stendy dlya ispytaniy sbornykh zhelezobetonnykh balok i ferm).

PERIODICAL: Beton i Zhelezobeton, 1958, Nr 2, pp 52-55 (USSR).

ABSTRACT: Naughno-issledovatel'skiy institut stroitel'nykh konstruktsiy akademii stroitel'stva i arkhitektury Ukr SSR (The Scientific and Research Institute for Building Constructions of the Academy of Building and Architecture of USSR) designed and tested two types of stands for investigating precast reinforced concrete beams and frames. These consist of a large reinforced concrete slab from concrete Mark 200 and jacks with gripping arrangements.. The stand is 19m long and 1.5m wide. The height is 0.8m (see Figure 1). A detailed description of testing is given. Figure 2 shows a cross section of the stand. A layout of the testing stand for investigating precast reinforced concrete frames is illustrated in Figure 3. It is

Card 1/2

SOV/97/58/2/3/16

Stands for Investigating Precast Reinforced Concrete Beams and Frames.

designed to accommodate slabs Type PKZh or PKZhN. It consists of a horizontal slab 13x7m in plan, with metal framework for application of loading and two hydraulic jacks. The loading is applied by means of two 100-ton capacity hydraulic jacks manufactured by the Kovrov[illegible] factory which work under the pressure of 480atm. Figure 5 illustrates the testing of a reinforced concrete frame of 12m span with various point loads. There are five figures.

1. Beams--Testing equipment 2. Reinforced concrete--Applications

Card 2/2

LIBERMAN, A.D. (Kiyev)

Selecting static diagrams for frame panel apartment houses. Prykl. mekh. 4 no.3:335-338 '58. (MIRA 13:8)

1. Institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury USSR.

(Structural frames)

SOV/97-58-11-5/11

AUTHORS: Liberman, A.D. and Rubach, O.M. (Cand.Tech.Sci.)

TITLE: Experiments Carried out With Prestressed Reinforced Concrete Pylons Carrying Electrical Grid (Eksperimental'noye issledovaniye predvaritel'no napryazhennykh opor liniy elektroperedachi).

PERIODICAL: Beton i Zhelezobeton, 1958, Nr.11, pp.421-424 (USSR)

ABSTRACT: Tests on 3 types of prestressed reinforced concrete pylons were carried out by the Institute for Building Constructions ASiA of the Ukrainian SSR (Institut stroitel'nykh konstruktsiy ASiA USSR). The first type was of "I" section (I), the second, lattice type (II) and the third perforated type (III). The first two types were designed by the Planning Institute Nr.2 of the Ministry for Building of RSFSR (Proyektnyy institut Nr.2 Ministerstva stroitel'stva RSFSR). The cross-section of the pylon at the top is 140 x 200 mm and at the base 240 x 340 mm. The thickness of the web is 40 mm and the width of the flange 50 mm. Pylons of rectangular cross-section with oval perforations are concreted in one.

Card 1/3 Pylons of rectangular cross-section with rectangular

Experiments Carried out With Prestressed Reinforced Concrete Pylons Carrying Electrical Grid.

perforations (II) are widely used but should be constructed sufficiently strongly to withstand handling. The accepted cross-section of 13 m. high pylons weighing approximately 1 t. is sufficient as far as strength and crack formation are concerned. The maximum deflection of the top of the pylon during testing under load was not bigger than 1/175 of its height. When reinforcement of standard profile is used the mark of the concrete could be as low as 300 if stresses in the concrete do not reach more than 120 - 130 kg/cm^2. Determination of stresses and deformations in pretensioned pylons during testing could be carried out by using methods of calculation for elastic bodies taking into account variations of the section. Pylons type (III) were found to be suitable for 6 - 10 kW grids and are recommended by the Gosstroy of the Ukrainian SSR. Fig.2 gives details of construction and method of cross-reinforcement. The necessity to investigate type (III) arose because of unsatisfactory results obtained during tests of type PI-2 (II). The tensioning of reinforcement was carried out up to 11 700 kg/cm^2, which was 0.65 of the limit stress.

Experiments Carried out With Prestressed Reinforced Concrete Pylons Carrying Electrical Grid.

Tests of the pylons were carried out horizontally under loading conditions which corresponded to the effect of a wind velocity of 25 m/sec. The testing stand consisted of 2 reinforced concrete supports fixed in the ground 2.1 m. apart, as illustrated in Fig.3. Deformation tests of concrete were also carried out. The deflections were taken from 4 points along the length of the pylon and the stresses in 3 points along the extreme fibres and in the position of the maximum bending moment. The loading test was carried out by load increasing in stages by 40 kg. Fig.4 shows diagrams of concentrated loading on the pylon and Fig.5 bending graph of 'I' section pylon. Fig.6 shows shear diagrams of the pylons under loading. Fig.7 shows detail of the collapse of pylon type (II). Technical and economical values of pylons 13 m. high are given in Table 1, and results of the tests made are given in Table 2. There are 7 figures and 2 tables.

LIBERMAN, A.D., kand.tekhn.nauk

Making and using prestressed composite beams. Biul. stroi. tekh. 15 no.6:16-18 Je '58. (MIRA 11:6)

1.Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsii Akademii stroitel'stva i arkhitektury USSR.
(Girders--Testing)

LIBERMAN, Al'fred Davidovich, kand.tekhn.nauk; ZASLAVSKAYA, T., red.; NEMCHENKO, I., tekhn.red.

[Precast reinforced concrete ceilings] Sbornye zhelezobetonnye perekrytiia. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit.USSR, 1959. 100 p. (MIRA 12:8)
(Ceilings) (Precast concrete construction)

LIBERMAN, A.D., kand.tekhn.nauk; KORSHUNOV, D.A., inzh.

Selecting types of panels for ceilings of industrial buildings.
Prom.stroi. 38 no.1:20-22 '60. (MIRA 13:5)

1. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury USSR.
(Concrete slabs) (Ceilings)

LIBERMAN, A., kand.tekhn.nauk

Testing two prestressed reinforced concrete girders.
Bud.mat.i konstr. 2 no.1:44-47 F '60. (MIRA 13:6)
(Griders--Testing)

LIBERMAN, A.D., kand.tekhn.nauk; KOZLOV, V.Sh., inzh.; SVESHNIKOV, G.V., inzh.

Design and construction of a mechanically assembled building for an automatic machine-tool plant. Prom. stroi. 39 no.10:42-47 O '61. (MIRA 14:10)

1. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury USSR (for Liberman). 2. Kiyevskiy Promstroyproyekt (for Kozlov). 3. Kiyevskiy sovnarkhoz (for Sveshnikov).
(Kiev--Precast concrete construction)

LIBERMAN, A.D., kand.tekhn.nauk; KORSHUNOV, D.A., inzh.

Composite roofs for industrial buildings. Bet. i zhel.-bet. 8 no.7:289-294 Jl '62. (MIRA 15:7)
(Roofing, Concrete) (Industrial buildings)

LIBERMAN, A.D., kand.tekhn.nauk; BELINSKIY, I.A., inzh.

Insulated wall slabs with a length of 12 m. Prom.stroi. 40 no.8:50-53 '62. (MIRA 15:11)

(Concrete walls)

BOGDANOVICH, Galina Nikolayevna, kand. tekhn. nauk; BULAKOVSKIY, Vadim Ivanovich, kand. tekhn. nauk; GOLOVCHENKO, Pavel Sergeyevich, kand. tekhn.nauk; DEKHTYAR, Etya Mikhaylovna, inzh.; KARNAUKHOV, Nikolay Petrovich, inzh.; KLIMANOVA, Yekaterina Antonovna, kand. tekhn. nauk; KRAVTSOV, Boris Konstantinovich, kand. tekhn. nauk; LIBERMAN, Al'fred Davidovich, kand. tekhn. nauk; LUKASHENKO, Ivan Andreyevich, kand.tekhn. nauk; POGREBNYAK, Zinaida Feofanovna, kand. tekhn. nauk; ROKHLIN, Il'ya Aleksandrovich, kand.tekhn.nauk; TRET'YAKOV. Lev Dmitriyevich, kand. tekhn. nauk; TSATSKINA, Frida Naumovna; REZNICHENKO, I.Ye., red.; LEUSHCHENKO, N.L., tekhn.red.

[Handbook for construction laboratories]Spravochnik dlia stroitel'nykh laboratorii. Pod red. B.K.Kravtsova. Kiev, Gosstroiizdat, 1962. 821 p. (MIRA 16:3)

1. Nauchnyye sotrudniki Akademii stroitel'stva i arkhitektury Ukr.SSR (for all except Reznichenko, Leushchenko).
(Building research--Handbooks, manuals, etc.)

LIBERMAN, Al'fred Davidovich; KORSHUNOV, Dmitriy Andreyevich; [redacted]; BELINSKIY, Igor' Alekseyevich; KIYANICHENKO, N.S., red.; LEUSHCHENKO, N.A., tekhn. red.

[Large reinforced concrete structures in industrial construction] Krupnorazmernye zhelezobetonnye konstruktsii v promyshlennom stroitel'stve; iz opyta stroitel'stva mekhanosborochnogo korpusa zavoda stankov-avtomatov im. Gor'kogo v Kieve. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1963. 49 p. (MIRA 16:9)
(Precast concrete construction)

LIBERMAN, A.F.

Technical and economic indices of the utilization of raw materials. Leg. prom. 7 no.8:11-13 Ag '47. (MLRA 6:11)

1. Leningradskaya fabrika "Krasnoye Znamiya." (Knit goods)

LIBERMAN, A.F.

Keeping records of raw materials used. Leg.prom.16 no.2:46-48 F '56.
(MLRA 9:7)

1.Zamestitel' nachal'nika planovogo otdela trikotazhnoy fabriki "Krasnoye znamya".
(Knit goods industry--Accounting)

LIBERMAN, Aron Isakovich, doktor tekhn. nauk, retsenzent; KUNIN, P.A., inzh., red.; SMIRNOVA, G.V., tekhn. red.

[Design of multicut tools for copying machining]Raschet mnogolezviinykh instrumentov, rabotaiushchikh metodom kopirovaniia. Moskva, Mashgiz, 1962. 359 p. (MIRA 16:2)
(Metal-cutting tools)

ROZENGART, M.I.; LIBERMAN, A.L.

Outstanding contribution to the scientific foundations of petrochemistry; the 70th birthday of Academician Boris Aleksandrovich Kazanskii. Neftekhimiia 1 no.2:129-140 Mr-Ap '61. (MIRA 15:2)

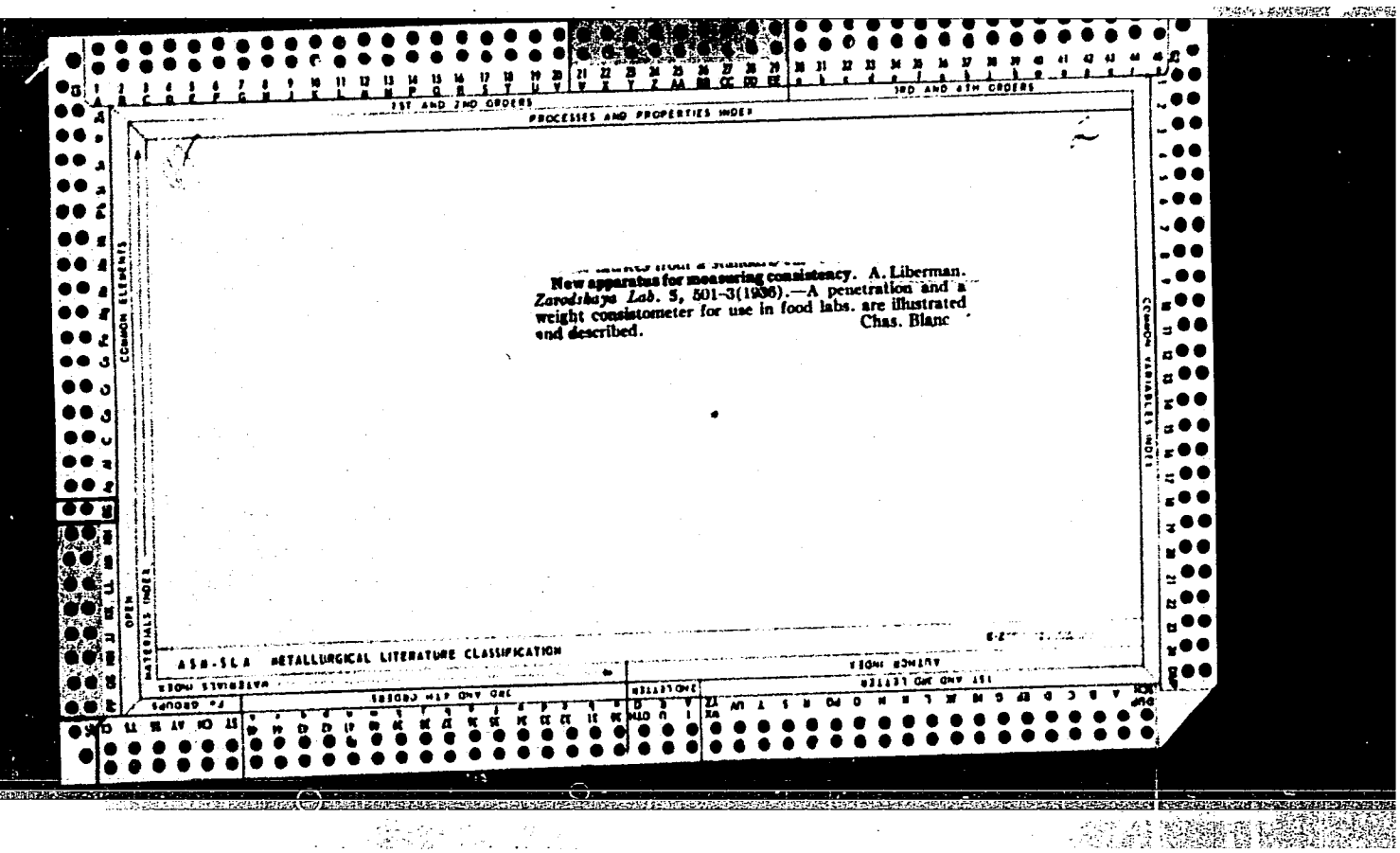
(Kazanskii, Boris Aleksandrovich, 1891-)
(Petroleum)

LIBERMAN, A.I.

Design of circular form cutters. Stan. i instr. 35 no. 4: 25-31 Ap '64. (MIRA 17:5)

LIBERMAN, A.I.

Correction of the profile of involute broaches. Stan. i instr. 36 no.9:26-30 S '65. (MIRA 18:10)

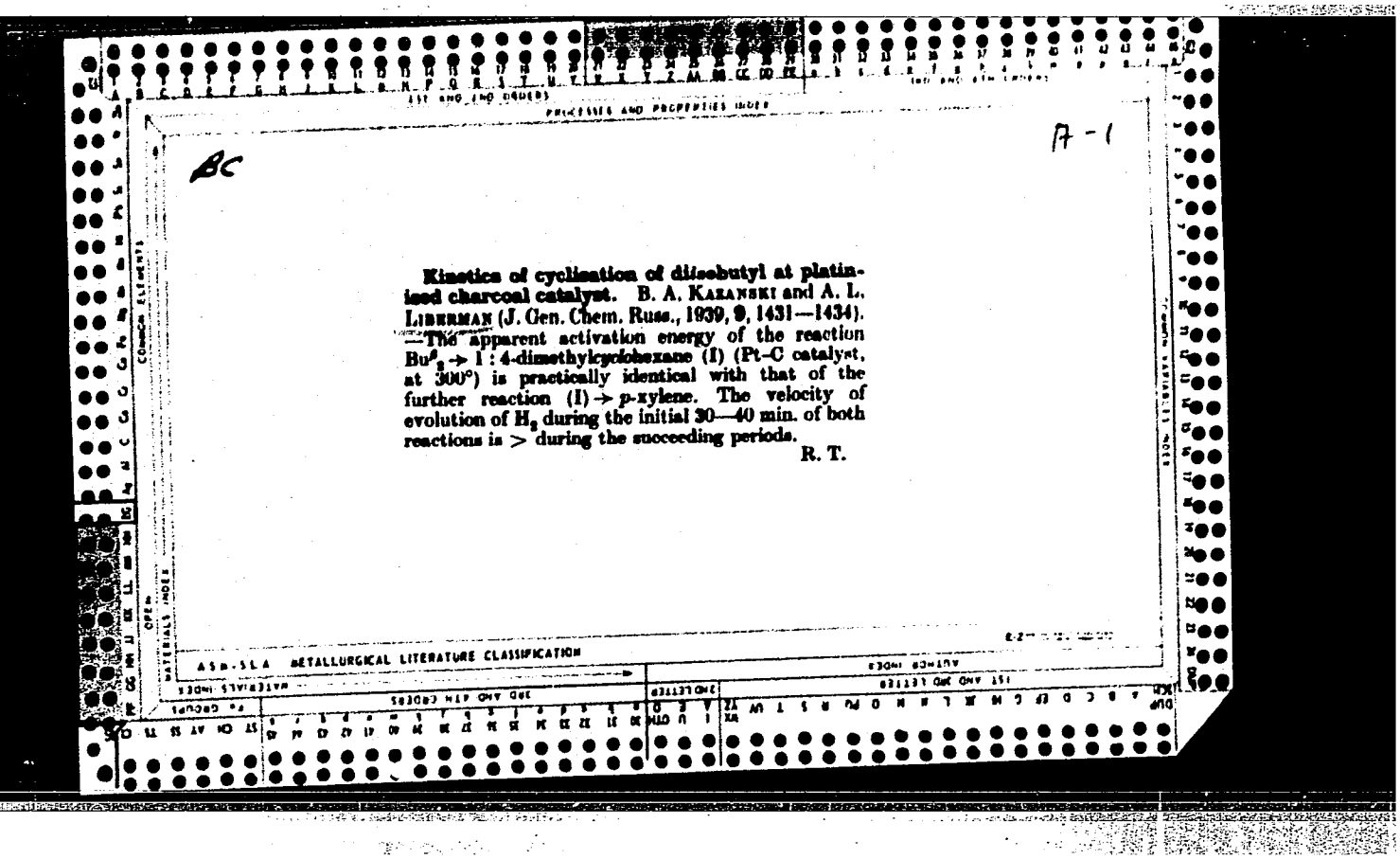


New apparatus for measuring consistency. A. Liberman. *Zavodskaya Lab.* 5, 501–3(1936).—A penetration and a weight consistometer for use in food labs. are illustrated and described. Chas. Blanc

KAZANSKIY, B. A.; LIBERMAN, A. L.

"The Kinetics of the Cyclization of Diisobutyl on Platinized Carbon", Zhur., Obshch. Khim., 9, No. 15, 1939. Institute of Organic Chemistry, Academy of Sciences USSR. Received 1 Feb 1939.

Report U-1614, 3 Jan 1952.



BC

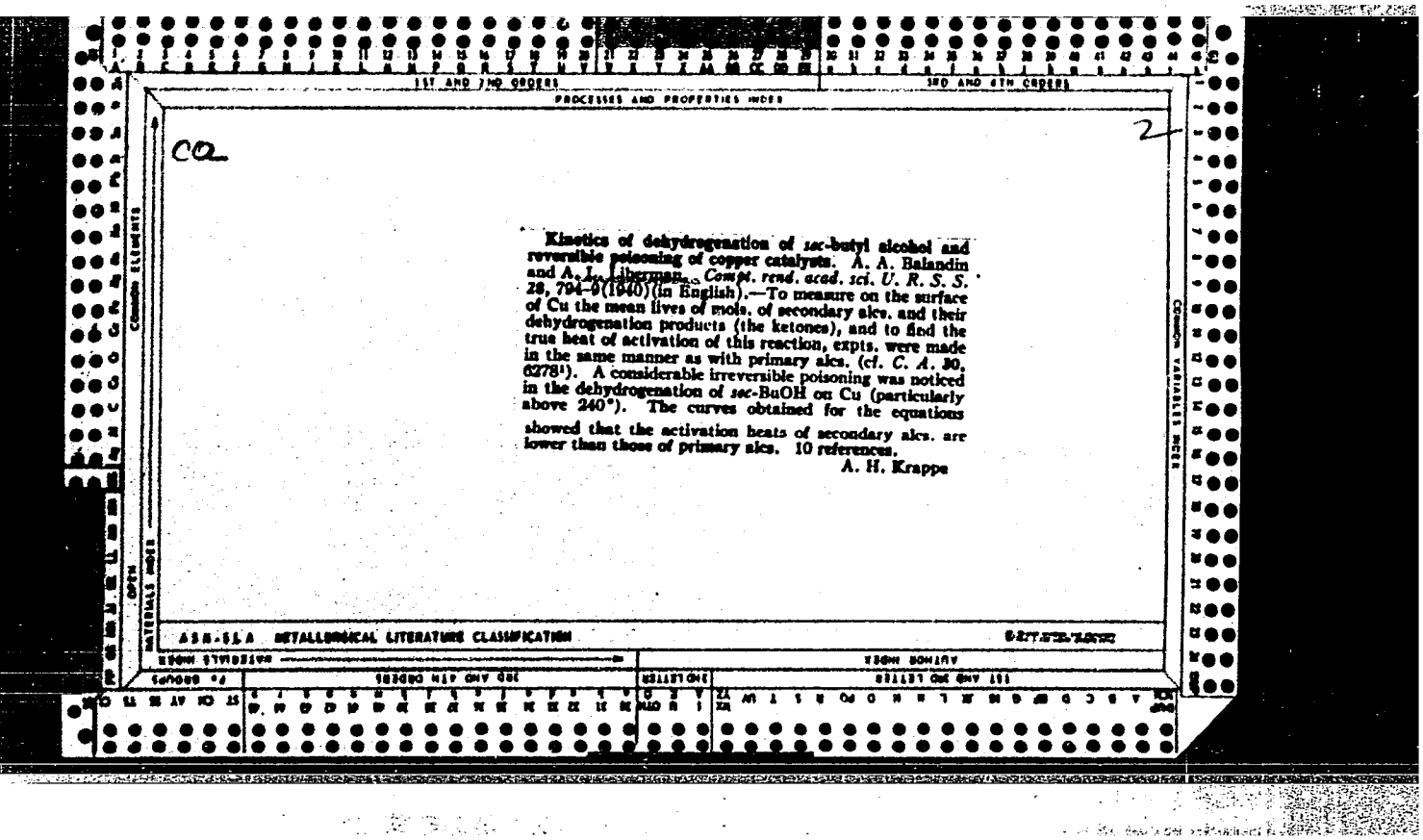
A-1

Kinetics of cyclisation of diisobutyl at platinised charcoal catalyst. B. A. KAZANSKI and A. L. LIBERMAN (J. Gen. Chem. Russ., 1939, **9**, 1431—1434). —The apparent activation energy of the reaction $Bu^{i}_{2} \rightarrow$ 1 : 4-dimethylcyclohexane (I) (Pt–C catalyst, at 300°) is practically identical with that of the further reaction (I) $\rightarrow$ *p*-xylene. The velocity of evolution of H_2 during the initial 30—40 min. of both reactions is > during the succeeding periods.

R. T.

LIBERMAN, A.L.

"Contact Cyclization of Paraffinic Hydrocarbons. Catalytic Action of Chromic Oxide," "Contact Cyclization of Paraffinic Hydrocarbons," Dok. AN, 27, No. 5, 1940, Inst. Org. Chem. N. D. Zelinsky Dept. Acad. Sci. -c1940-.



CO

2

Kinetics of dehydrogenation of *sec*-butyl alcohol and reversible poisoning of copper catalysts. A. A. Balandin and A. L. Liberman. *Compt. rend. acad. sci. U. R. S. S.* 28, 794–9(1940)(in English).—To measure on the surface of Cu the mean lives of mols. of secondary alcs. and their dehydrogenation products (the ketones), and to find the true heat of activation of this reaction, expts. were made in the same manner as with primary alcs. (*cf. C. A.* 30, 6278[1]). A considerable irreversible poisoning was noticed in the dehydrogenation of *sec*-BuOH on Cu (particularly above 240°). The curves obtained for the equations showed that the activation heats of secondary alcs. are lower than those of primary alcs. 10 references.

A. H. Krappe

Isotherm of heterogeneous catalytic reactions carried out under flow method conditions and a new method for determining the relative adsorption coefficients. A. L. Liberman (*Compt. rend. Acad. Sci. U.R.S.S.*, 1941, **31**, 448—452).—An equation connecting reaction velocity with adsorption on reaction centres, which is based on Langmuir's equation and also takes into account the change in vol. occurring during a reaction, has been derived. This equation, $m/M = 2k/\beta m - 2/\beta$ (M and m are respectively the no. of mols. of reactant entering the reaction tube and the no. of such mols. reacting per unit time, $\beta = a_2/a_1 + a_3/a_1$, where a_1, a_2, and a_3 are the adsorption coeffs. of reactant and reaction products, and k is a reaction rate coeff.), has been satisfactorily applied to data for the dehydrogenation of *sec.*-BuOH, for which reaction $\beta = 7{\cdot}4$.

C. R. H.

LIBERMAN, A. L.

"The Relative Efficiencies of Laboratory Fractionating Columns of Various Constructions," Zhur. Obshch, Khim., 12, No. -1-2, 1942. Inst. Org. Chem. Acad. Sci. SSSR, -1942-.

LIBERMAN, A. L.

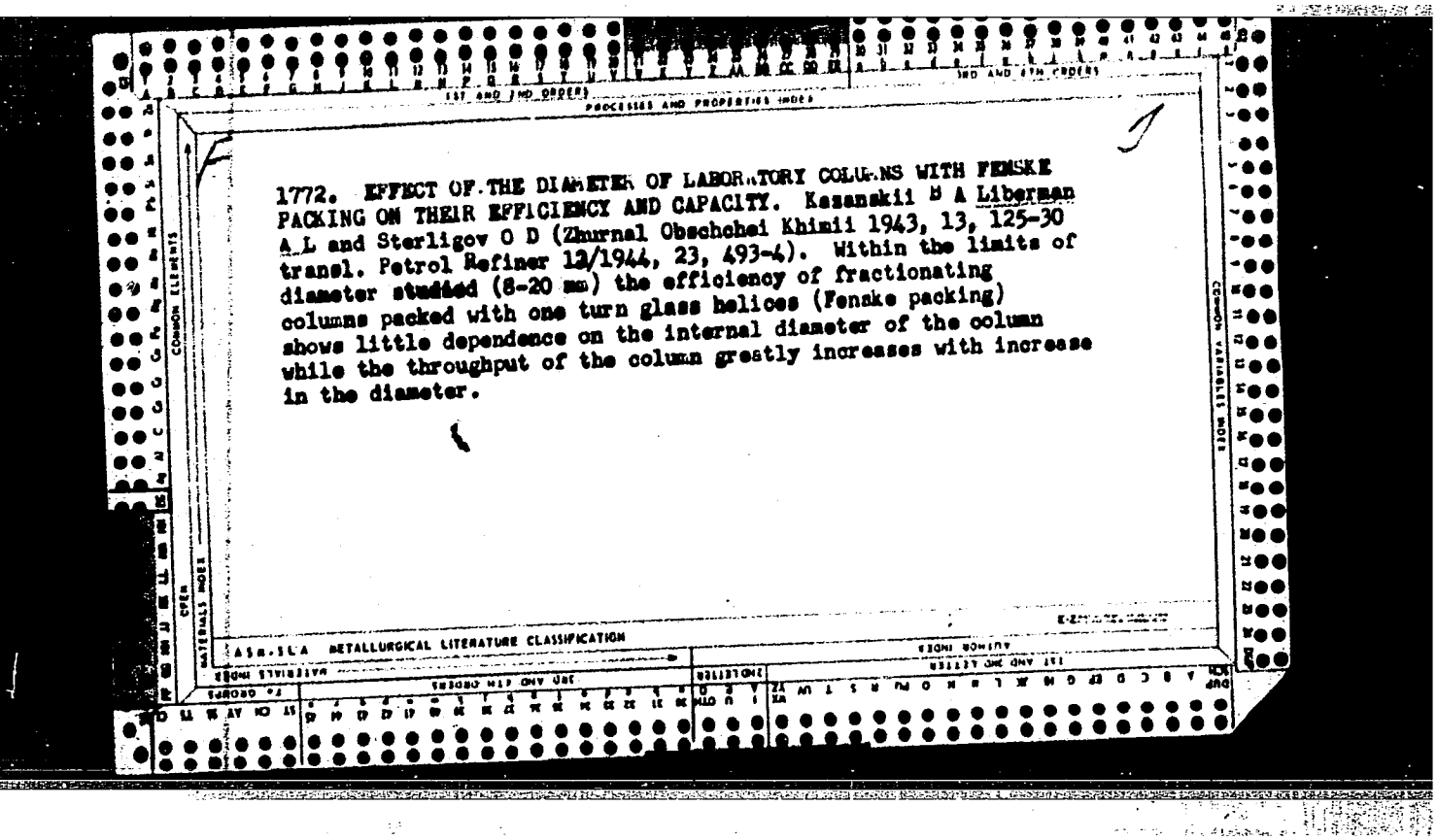
"Optical Methods of Studying Hydrocarbons. Part III.

Spectra of Combination Scattering of Hydrocarbons"

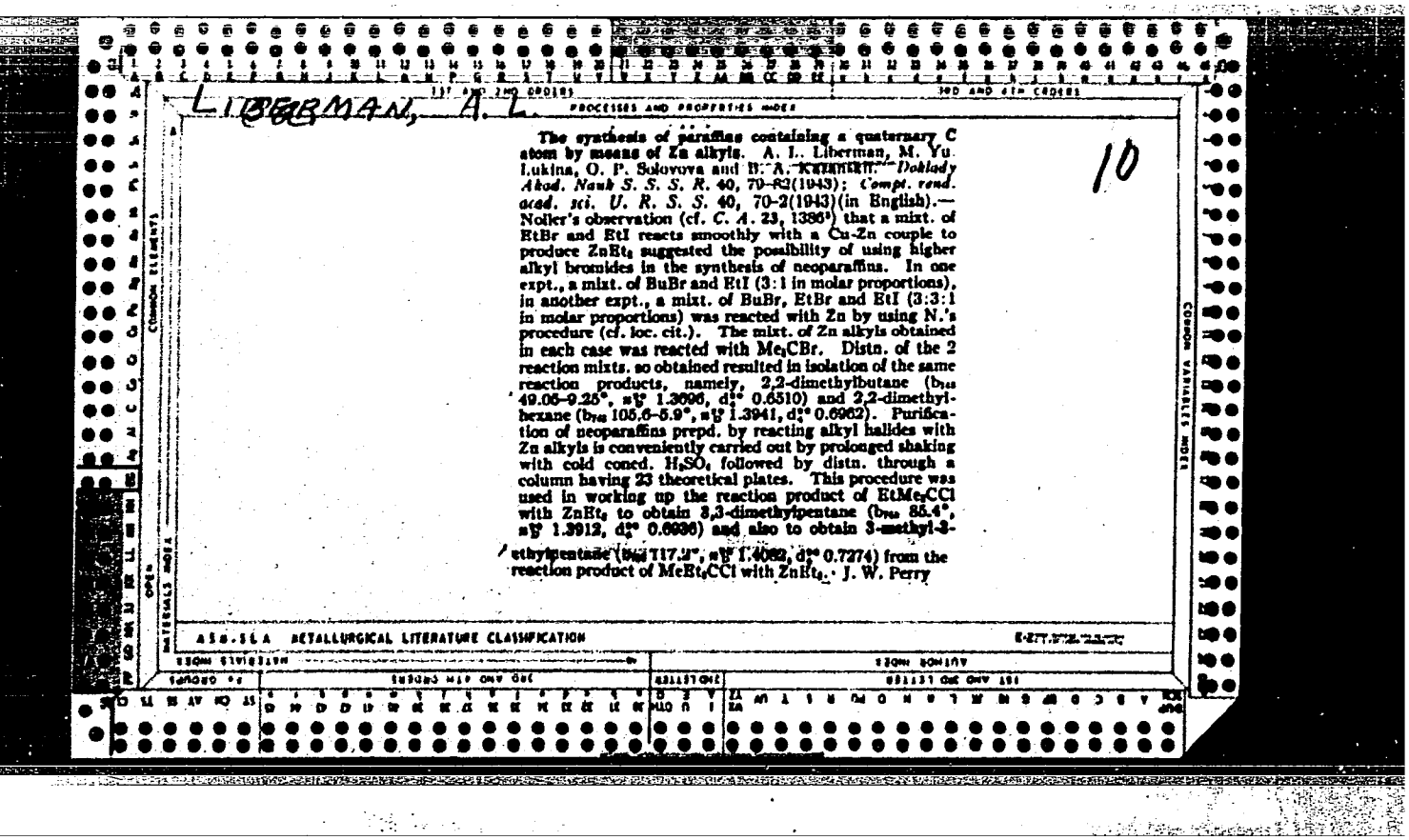
Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No. 3, 1943.

P. N. Lebedev Institute of Physics and Institute of

Organic Chemistry, Academy of Sciences of the USSR, -1943-.



1772. EFFECT OF THE DIAMETER OF LABORATORY COLUMNS WITH FENSKE PACKING ON THEIR EFFICIENCY AND CAPACITY. Kasanskii B A Liberman A L and Sterligov O D (Zhurnal Obschchei Khimii 1943, 13, 125-30 transl. Petrol Refiner 12/1944, 23, 493-4). Within the limits of diameter studied (8-20 mm) the efficiency of fractionating columns packed with one turn glass helices (Fenske packing) shows little dependence on the internal diameter of the column while the throughput of the column greatly increases with increase in the diameter.

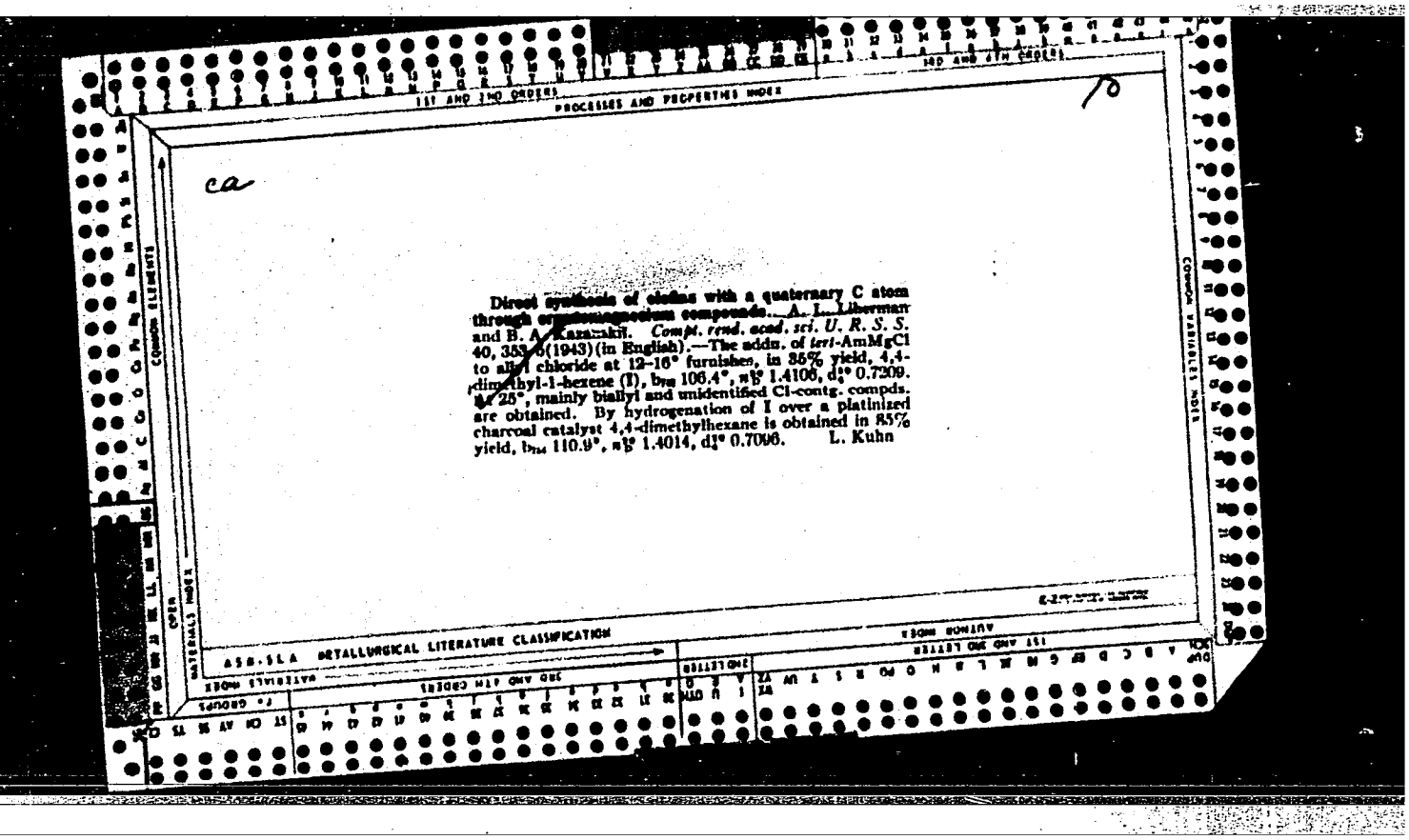


LIBERMAN, A. L.

10

The synthesis of paraffins containing a quaternary C atom by means of Zn alkyls. A. L. Liberman, M. Yu. Lukina, O. P. Solovova and B. A. [illegible]. *Doklady Akad. Nauk S. S. S. R.* 40, 79–82(1943); *Compt. rend. acad. sci. U. R. S. S.* 40, 70–2(1943)(in English).—Noller's observation (cf. *C. A.* 23, 1386⁹) that a mixt. of EtBr and EtI reacts smoothly with a Cu-Zn couple to produce $ZnEt_2$ suggested the possibility of using higher alkyl bromides in the synthesis of neoparaffins. In one expt., a mixt. of BuBr and EtI (3:1 in molar proportions), in another expt., a mixt. of BuBr, EtBr and EtI (3:3:1 in molar proportions) was reacted with Zn by using N.'s procedure (cf. loc. cit.). The mixt. of Zn alkyls obtained in each case was reacted with Me_2CBr. Distn. of the 2 reaction mixts. so obtained resulted in isolation of the same reaction products, namely, 2,2-dimethylbutane (b_{745} 49.05–9.25°, n_D^{20} 1.3696, d_4^{20} 0.6510) and 2,2-dimethylhexane (b_{745} 105.6–5.9°, n_D^{20} 1.3941, d_4^{20} 0.6962). Purification of neoparaffins prepd. by reacting alkyl halides with Zn alkyls is conveniently carried out by prolonged shaking with cold concd. H_2SO_4 followed by distn. through a column having 23 theoretical plates. This procedure was used in working up the reaction product of $EtMe_2CCl$ with $ZnEt_2$ to obtain 3,3-dimethylpentane (b_{745} 86.4°, n_D^{20} 1.3912, d_4^{20} 0.6936) and also to obtain 3-methyl-3-ethylpentane (b_{745} 117.2°, n_D^{20} 1.4092, d_4^{20} 0.7274) from the reaction product of $MeEt_2CCl$ with $ZnEt_2$. J. W. Perry

A 56-5 LA METALLURGICAL LITERATURE CLASSIFICATION



ca

Direct synthesis of olefins with a quaternary C atom through organomagnesium compounds. A. L. Liberman and B. A. Kazanskii. *Compt. rend. acad. sci. U. R. S. S.* 40, 353-6(1943)(in English).—The addn. of *tert*-AmMgCl to allyl chloride at 12–16° furnishes, in 35% yield, 4,4-dimethyl-1-hexene (I), b_{760} 106.4°, n_D^{20} 1.4106, d_4^{20} 0.7209. At 25°, mainly diallyl and unidentified Cl-contg. compds. are obtained. By hydrogenation of I over a platinized charcoal catalyst 4,4-dimethylhexane is obtained in 85% yield, b_{760} 110.9°, n_D^{20} 1.4014, d_4^{20} 0.7096. L. Kuhn

LIBERMAN, A. L.

"Contribution to the Problem of the Synthesis of Paraffins Comprising a Quaternary Carbon Atom Through Zinc Alkyls," Dok. AN, 40, No. 2, 1943; Inst. Org. Chem., Acad. Sci. -c1943-.

LIBERMAN, AL.

"On Hydrogenation of Methone," Iz. Ak. Nauk SSSR, Otdel Khim. Nauk, No. 1, 1946. Institute of Organic Chemistry, Academy of Sciences of the USSR. -1946-.