DANILCHENKO, P. T., POLTZOVSKIY, A. M., AND GLOBINA, N. I.

Surface Tension of Sea Water and of Brine of Reservoirs
Tr. Krymsk. fil, AN SSSR, No 1, 1953, pp 69-73

Data on surface tension of Sivash, Sakk, Sasyk-Sivash, Maynak lakes are given. Measurements showed that surface tension of brines at 20°C without a coat of active substances depends linearly on the salt concentration S and equals 72.6 - 0.38158. In presence of superficial active substances the tension drops sharply. The active substances coal appears in summer and fall and is due to development and decay of organic matter.
(RZhFiz, No 5, 1955)

SO: Sum. No. 639, 2 Sep 55

SAVUL, M.A.; POMIRLEANU, V.V.

Statistical determination of the homogenization temperature of liquid inclusions [with summary in English]. Geokhimiia no.3:206-213 '58. (MIRA 11:7)

1.Akademiya nauk Rumynskoy Narodnoy Respubliki i Yasskiy universitet im. A.I. Kuza.
(Quartz crystals) (Crystallization)

POMMERENKE, C. (Göttingen)

Correction to my paper: "On the Equal Distribution of Lattice Points on m-Dimensional Ellipsoids." Acta arithmetica 7 no.3:279 '62.

POMMERENKE, C.

A contribution on the equal distribution of lattice points on m-dimensional ellipsoids. p. 227.

ACTA ATITHMETICA. (Polska Akademia Nauk. Instytut Matematyczny) Warszawa, Poland. Vol. 5, no. 2, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

FANIYEV, G.G., inzh.; POMOGALOV, M.I., inzh.; GULI-ZADE, S.B.; YEVSEYEV, A.G.; ZAREMBO, G.V., inzh.

Automatic gravimtric proportioning of formula components for margarine at the Baku Margarine Plant. Masl.-zhir. prom. 23 no.12: 35-38 '57. (MIRA 11:2)

1. Giprozhir (for Faniyev). 2. Bakinskiy margarinovyy zavod (for Pomogalov, Guli-Zade, Yevseyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Zarembo).
(Baku--Margarine) (Weighting machines)

FANIYEV, G.G., inzh.; POMOGALOV, M.I., inzh.; GULI-ZADE, S.B.; YEVSEYEV, A.G.; ZAREMBO, G.V., inzh.

Automatic gravimtric proportioning of formula components for margarine at the Baku Margarine Plant. Masl.-zhir. prom. 23 no.12: 35-38 '57. (MIRA 11:2)

1. Giproshir (for Faniyev). 2. Bakinskiy margarinovyy zavod (for Pomogalov, Guli-Zade, Yevseyev). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Zarembo).
(Baku--Margarine) (Weighting machines)

MERC, Jozsef, dr.; ERDELYI, Ildiko; POMOGATS, Bela

Notes. Munka 11 no.6:24-25 Je '61.

MOLNAR, Karoly, ujsagiro; GERGYE, Gyula; POMOGATS, Bela, tanar; ILKEI, Csaba, ujsagiro

Notes. Munka 11 no.9: S '61.

1. Kereskedelmi, Penzugyi es Vendeglatoipari Dolgozok Szakszervezete szegedi muvelodesi hazanak igazgatoja. (for Gergye)

(Hungary—Trade unions)
(Hungary—Education of adults)

POMOGAYEV, B. (Serov, Sverdlovskaya obl.)

Attachment for reproduction. Sov.foto 18 no.11:59-60 N '58. (MIRA 11:12)

(Photography--Copying)

L 17637-66 EWP(j)/T RM

ACC NR: AT6009208 SOURCE CODE: HU/2502/65/043/001/0033/0044

AUTHOR: Nyilasi, Janos--Nilashi, Y. (Doctor); Pomogats, Erzsebet--Pomogach, E.

ORG: Department of General and Inorganic Chemistry, L. Eotvos University, Budapest; Academic Research Group for Inorganic Chemistry, Budapest

TITLE: Metal complexes of peptides. Part 3: Oxidative deamination of the glycylpeptide - cobalt complexes

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 43, no. 1, 1965, 33-44

TOPIC TAGS: metal compound, complex molecule, polypeptide, sodium hydroxide, catalysis, ascorbic acid, biochemistry, cobalt compound

ABSTRACT: The rates of oxidative deamination were investigated in sodium hydroxide solutions of various concentrations. The glycylpeptides underwent such deamination in a broad NaOH concentration range, while the glycine did so only in a narrow concentration range. The peptide chain length also affected the rates. Studies were also undertaken to establish the catalytic effect of ascorbic acid on the deamination rate. Orig. art. has: 5 figures and 4 tables. [JPRS]

SUB CODE: 07, 06 / SUBM DATE: 22Apr64 / ORIG REF: 007 / OTH REF: 002

Card 1/1

SIDOROV, D.A., inzh. (Leningrad); POMOGAYEV, P.Ye., inzh. (Leningrad)

Maintenance and repair of massive bridge substructures. Put' i put. khoz. 4 no. 12:28-29 D '60. (MIRA 13:12)
(Railroad bridges--Maintenance and repair)

L 08383-67 EWT(m) IJP(c)
ACC NR: AR6017636 SOURCE CODE: UR/0272/66/000/001/0165/0165

AUTHOR: Gorn, L. S.; Isayeva, F. N.; Pomogayev, V. V.

TITLE: Separating the fast and slow components of a signal in scintillation counters with composite phosphors

SOURCE: Ref. zh. Metrol. i izmerit. tekh., Abs. 1.32.1254

REF SOURCE: Tr. Soyuzn. n. i. inta priborostr., vyp. 2, 1965, 11-23

TOPIC TAGS: scintillation counter, crystal phosphor, alkali halide

ABSTRACT: Scintillation counters with composite phosphors (luminophors) are now being used more and more frequently in radiometric practice. These detectors open possibilities for qualitative analysis of radiation make-up, for making directional radiometers and producing γ-spectra with a single-valued reaction to radiation. The problem of component analysis using composite phosphors reduces to a purely electronic problem: resolution of the counter signal formed by the superposition of scintillation in the "slow" alkali halide crystal and the "fast" organic crystal into separate components. Current pulses are used directly for separation since the difference in form is greatest in this case. The pulse shape is analyzed in a counter using composite phosphors, and the method for separating the fast and slow components and determining the separation factor is given with a description of the shape discriminator. The use of the shape discriminator is discussed. 7 illustrations, bibliography of 7 titles. N. Zevina. [Translation of abstract]

SUB CODE: 11, 20

UDC: 389:539.1.074.3

Card 1/1 nst

SOKOLOV, D.A.; LUZIN, I.L.; POMOGAYEV, V.A.; BAKHAREV, E.V.

Improved sizing technology. Tekst.prom. 25 no.11:42-44 N '65.
(MIRA 18:12)

1. Nachal'nik laboratoriy Barnaul'skogo nauchno-issledovatel'skogo instituta tekstil'noy promyshlennosti (for Sokolov, Luzin). 2. Nachal'nik tkatskogo proizvodstva Barnaul'skogo melanzhevogo kombinata (for Pomogayev). 3. Vedushchiy konstruktor Barnaul'skogo nauchno-issledovatel'skogo instituta tekstil'noy promyshlennosti (for Bakharev).

POMOGAYEVA, A. I.

"Selection of Plate (Large Seed) Lentils. (According to Data of the Petrovsk State Agriculture Station)." Cand Agr Sci, Saratov Agricultural Inst, Saratov, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

POMOLOVSKII, L. A.

USSR.

3
62

V 1328. FUEL-AND-CHEMICAL LINE OF DEVELOPMENT FOR PETROLEUM PROCESSING INDUSTRY. Makarov, S.K., Orochko, D.I., Pomolovskii, L.A. and Teregulov, D.Kh. (Neft. Khoz. (Oil Ind., Moscow), Feb. 1955, 67-71). The most profitable line of development for the U.S.S.R. oil industry is seen in the production, in addition to fuels and lubricants, of large quantities of butadiene, ethyl alcohol, fatty acids and detergents. Hydrogenation should help to increase utilization of the crude but the production of hydrogen needs to be made cheaper by the use of new methods of treating refinery wastes. (L).

CA

A quantitative method for the determination of zinc in milk by using dithizone. Zofia Pomorska (P.Z.H., Wroclaw, Poland). *Roczniki Państwowego Zakładu Hig.* 1, 215-21 (1950) (French summary).— Ten ml. of milk is ashed, the ash dissolved in 2 ml. 2 *N* HCl, filtered, and the filtrate made up to 75 ml.; 1.5 ml. 2 *N* NaOH is added and the soln. made up to 100 ml. A 10-ml., aliquot is mixed with 0.5 ml. 2 *N* NaOH and 0.5 ml. dithizone in CCl_4 (100 mg./100 ml.). The color is compared with a series of standards. No Zn is found in milk stored in closed zinc-coated containers at 2.5-5° for 24 hrs.; after 48 hrs. the normal pH (8-9.1) starts decreasing with a parallel increase in the Zn content. After 96 hrs. 0.001-0.002% Zn is found. At higher temp. and at lower starting pH values the Zn content after 24 hrs. is 0.001-0.009%. The metallic taste cannot be detected below 0.02% concn. I. Z. R.

CA

Determination of tin in canned vegetables and fruits from U.S.A. Ludwig Szczepánski and Zofia Pomorska (P.Z.H., Wroclaw, Poland). *Roczniki Państwowego Zakładu Hig.* 1, 194–204(1950)(French summary).—Samples are ashed, extd. with HNO_3 to remove Fe, Cu, and Pb, and treated with KCN to reduce Sn to its metallic state. Sn is washed with water and dissolved in HCl. Titration with 0.02 *N* $K_2Cr_2O_7$ in presence of KI-starch indicator gives accurate results for as low values as 3.5 mg./kg. The H_2S method gives lower and less accurate data. Tomato juice contains 3.5 to 9.5 mg. Sn/kg. food, grapefruit juice 52.7, fruit preserves (with high sucrose content) 3.7–4.0. When these cans are left open, a marked increase in the Sn content is noted for the juices but only a very moderate one in the fruit preserves.

I. Z. Roberts

POMOMARENKO V.A.

PETROV, A.D.; MINACHEV, Kh. M.; POMOMARENKO, V.A.; SOKOLOV, B.A.; ODABASHYAN, G.V.

Investigation of some VIII group metals as catalysts in the reaction of $RSiHCl_2$ addition to unsaturated compounds. Dokl. AN SSSR 112 no.2:273-275 Ja '57. (MLRA 10:4)

1. Chlen-korrespondent AN SSSR (for Petrov). 2. Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR.
(Catalysts) (Silane)

POMORSKA, Z.

Szczepanski, L.; Pomorska, Z.

"Chemical composition of fruit wines produced from fruit of Lower Silesia" p. 271
(Roczniki, No. 3, 1953, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1954, Uncl.

MARKOWSKI, Ryszard, inz.; POMORSKI, Andrzej, mgr inz.

Course and results of the first stage of testing of the one-cylinder C22 type experimental engine. Biul techn Cegielski 6 Special issue: 19-25 '62.

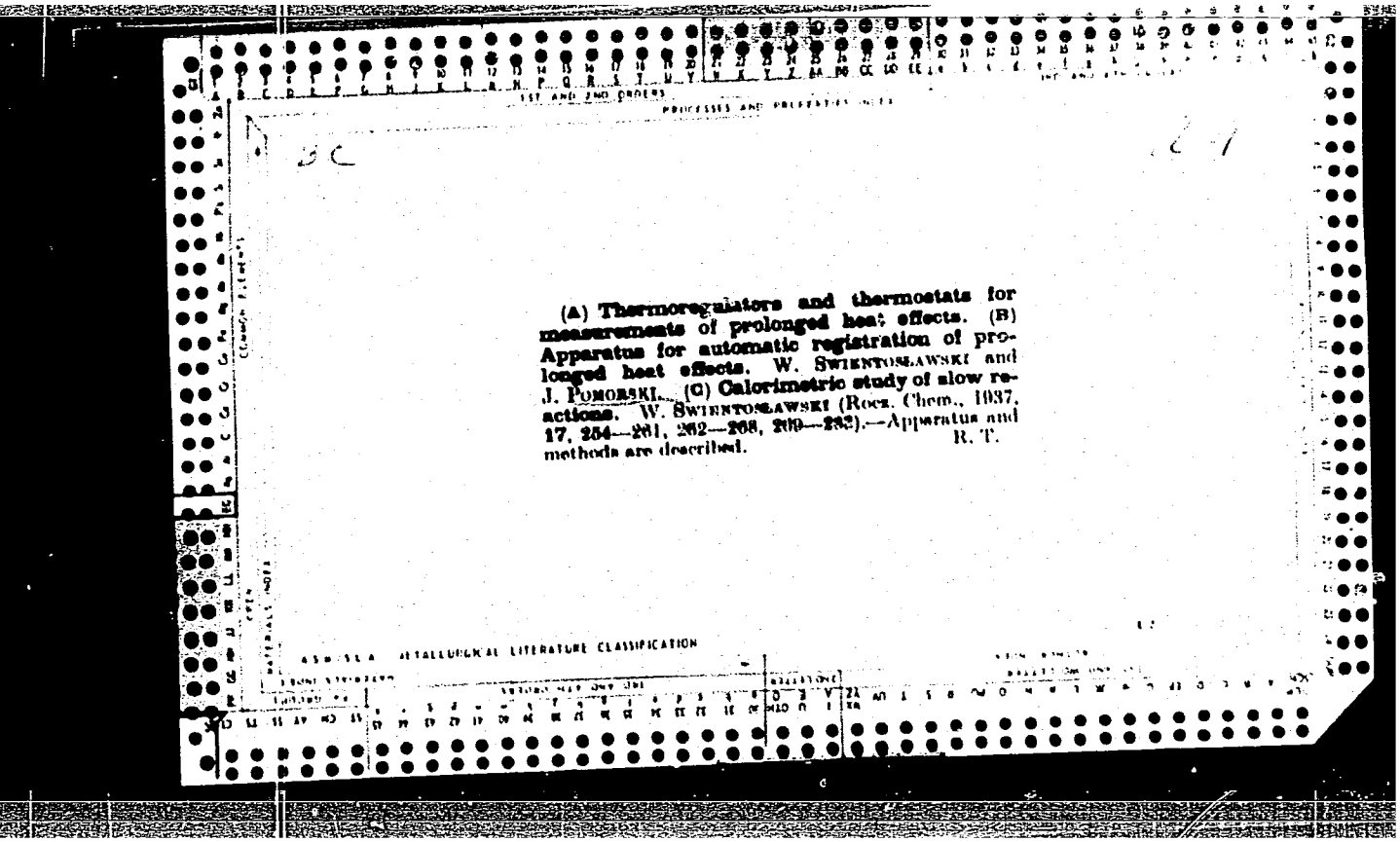
TUSZKO, Aleksander; POMORSKI, Jerzy (Warszawa)

Water flow in a receiver and the necessary reduction of sewage pollution. Prace i stud inz gosp wodnej 6:257-275 '63.

HRYNKIEWICZ, A.Z.; NIEWODNICZANSKI, H.; POMORSKI, L.

Rapid identification of isobars by the large angle scattering of low energy alpha particles from the cyclotron. Inst fiz jadr report no.402:1-10 '65.

1. Institute of Nuclear Physics, Krakow.



(A) Thermoregulators and thermostats for measurements of prolonged heat effects. (B) Apparatus for automatic registration of prolonged heat effects. W. SWIENTOSŁAWSKI and J. POMORSKI. (C) Calorimetric study of slow reactions. W. SWIENTOSŁAWSKI (Roczn. Chem., 1937, 17, 254—261, 262—268, 269—282).—Apparatus and methods are described. R. T.

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.; FLEROV, G.N.

Observation of a reaction involving the pickup of three neutrons and another involving the stripping of three protons in the interaction of N^{14} and Ne^{20} ions and C, Al, Cu, and Ta nuclei. Zhur. eksp. i teor. fiz. 42 no.2:635-637 F '62. (MIRA 15:2)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Institut yadernoy fiziki, Krakov, Pol'sha (for Pomorskiy). 3. Institut yadernykh issledovaniy, Varshava, Pol'sha (for Tys).
(Nuclear reactions) (Protons) (Neutrons)

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.; FLEROV, G.N.

Transfer reactions of 2n and 3n by bombardment of Al, Cu, and Ta with N^{15} and N^{14} ions. Zhur. eksp. i teor. fiz. 43 no.3:865-872 '62. (MIRA 15:10)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions) (Collisions (Nuclear physics)) (Ions)

34655
S/056/62/042/002/050/055
B108/B138

24.6500

AUTHORS: Volkov, V. V., Pomorskiy, L., Tys, Ya., Flerov, G. N.

TITLE: Observation of capture of three neutrons and stripping of three protons in the interaction of N^{14} and Ne^{20} ions with C, Al, Cu, and Ta nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 2, 1962, 635-637

TEXT: The authors studied nucleon transfer processes which occur in the interaction of heavy ions with nuclei without formation of a compound nucleus. The experiments are based on recording the lagging neutron activity of the N^{17} nuclei. Bombarding a target with N^{14} or Ne^{20} ions may lead to the reactions

$$ {}_{Z}X^{A} + N^{14} \rightarrow {}_{Z}X^{A-3} + N^{17} \quad (1) $$

$$ {}_{Z}X^{A} + Ne^{20} \rightarrow {}_{Z+3}Y^{A+3} + N^{17} \quad (2). $$

However, the departure of free nucleons is not impossible. C, Al, Cu, and Ta targets were exposed to an ion beam of several microamperes. A detailed

description of the experimental arrangement is given in ZhETF, 41, 1365, 1961 (G. N. Flerov et al.). The background caused by ions scattered from the cyclotron dees has to be considered only in the case of very low energies. Fig. 2 shows the yield in N^{17} (a), and the effective reaction cross section (b) for N^{14} ions. Results for Ne^{20} are qualitatively the same. The good agreement of the experimental values with data from publications (Ref. 11, see below) indicates that the observed reactions are nucleon transfer processes as described by Eqs. (1) and (2). There are 3 figures and 13 references: 3 Soviet and 10 non-Soviet. The four most recent references to English-language publications read as follows: J. A. McIntyre et al. Phys. Rev., 119, 1331, 1960; K. S. Toth. Phys. Rev., 121, 1190, 1961; Ref. 11: R. Kaufmann, R. Wolfgang, Phys. Rev. Lett., 3, 232, 1957; Phys. Rev., 121, 192, 1961; L. C. Northcliffe. Phys. Rev., 120, 1744, 1960.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Institut yadernoy fiziki, Krakov, Pol'sha (Institute of Nuclear Physics, Cracow, Poland) (L. Pomorskiy). Institut yadernykh issledovaniy, Varshava, Pol'sha (Institute of Nuclear Research, Warsaw, Poland) (Ya. Tys)

Card 2/3

Card 3/3

S/056/62/042/002/050/055
B108/B138

Observation of capture of three ...

SUBMITTED: December 9, 1961

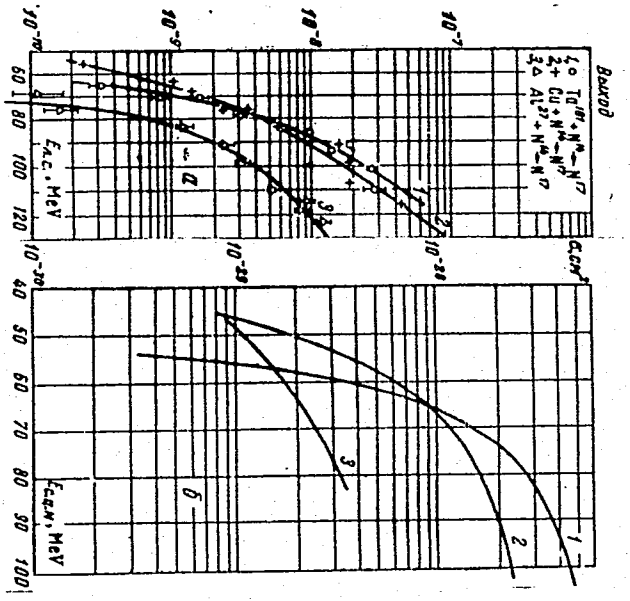
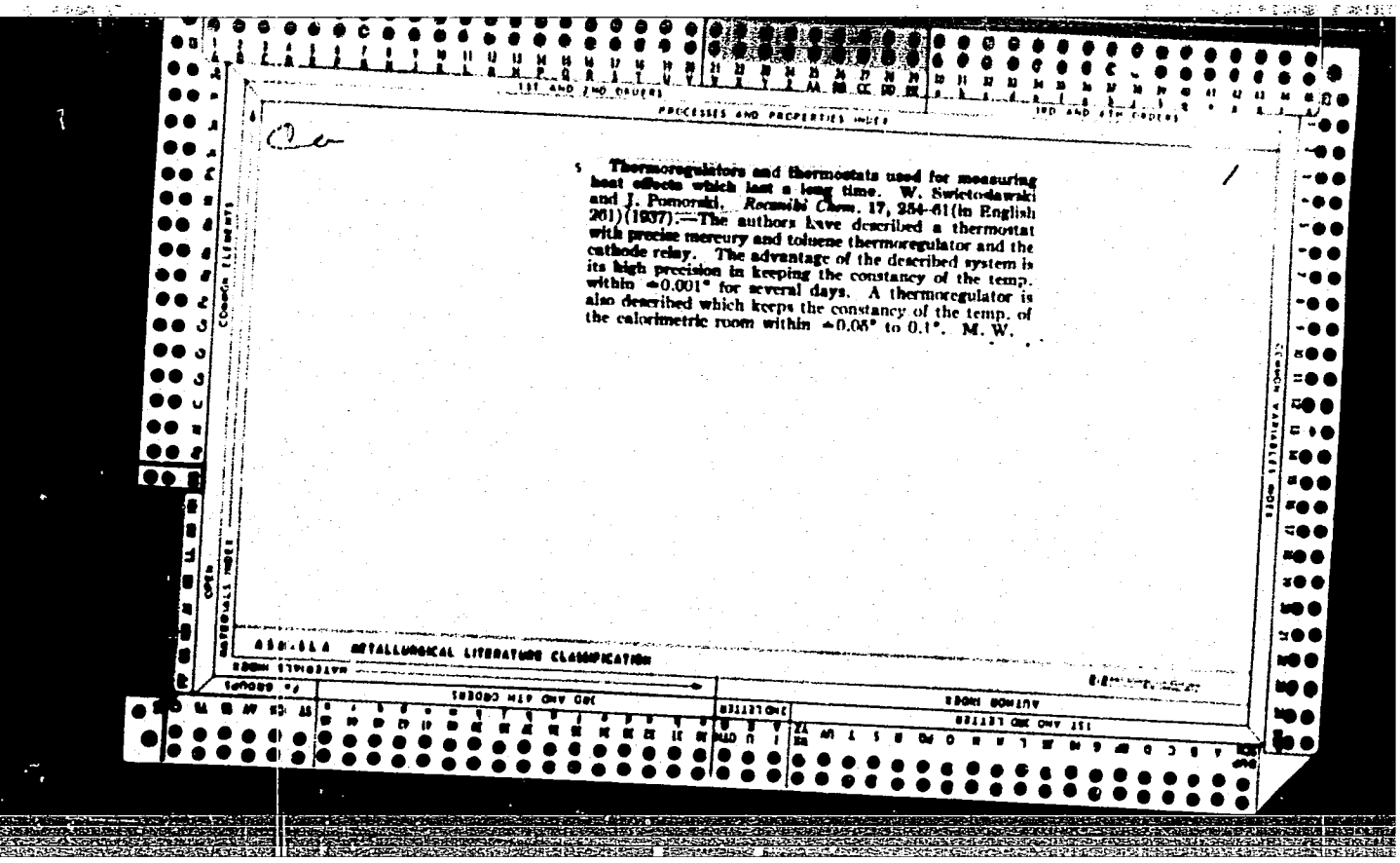


Fig. 2

Card 3/3



Thermoregulators and thermostats used for measuring heat effects which last a long time. W. Swietoslawski and J. Pomorski. *Roczniki Chem.* 17, 254-61 (In English 261) (1937).—The authors have described a thermostat with precise mercury and toluene thermoregulator and the cathode relay. The advantage of the described system is its high precision in keeping the constancy of the temp. within ±0.001° for several days. A thermoregulator is also described which keeps the constancy of the temp. of the calorimetric room within ±0.05° to 0.1°. M. W.

METALLURGICAL LITERATURE CLASSIFICATION

POMEL'TSOV, K.V., prof. (Moskva, Leningradskiy pr., d.75-Q kv.42)

Structure of the lung and the nomenclature of its segments. Vest. rent.i rad. 34 no.6:11-19 N-D '59. (MIRA 13:5)

1. Iz Instituta tuberkuleza AMN SSSR (dir. - chlen-korrespondent AMN SSR prof. N.A. Shmelev).
(LUNGS anat. & histol.)

POMEL'TSOV, K.V., prof.

Structure of the lung and nomenclature of its segments. Probl.tub. 37 no.7:20-28 '59. (MIRA 13:4)

1. Iz Instituta tuberkuleza AMN SSSR (direktor - chlen-korrespondent AMN SSSR prof. N.A. Shmelev).
(LUNG anat. & histol.)
(NOMENCLATURE)

POMERANTSEVA, A.M., kand.med.nauk

Treatment of radicular cysts with iodine preparations. Trudy TSIU 64:17-20 '63.

Papillon-Lefèvre syndrome and its significance in the diagnosis of parodontopathies. Ibid.:39-41

Experience in creating polymorphic erythema exudativum with chondroitinsulfuric acid. Ibid.:52-55 (MIRA 17:6)

POMMERS, P.P., kand. sel'skokhoz. nauk, zasluzhennyy agronom Latviyskoy SSR

Proper utilization of pastures. Zemledelie 26 no.5: 64-67 My '64. (MIRA 17:6)

1. Latviyskiy nauchno-issledovatel'skiy institut zemledeliya.

LIVANOVA, O.V., kand. tekhn. nauk; LINDORF, L.S., kand. tekhn. nauk; OKOLOVICH, M.N., kand. tekhn. nauk; POLEVAYA, I.V., kand. tekhn. nauk; POMOGAYEVA, S.G.

Effect of asynchronous motors on short-circuit currents in a system supplying self-needs of power plants. Elek. sta. 36 no.11:48-54 N '65. (MIRA 18:10)

DRAGULESCU, C., prof.; POMOJE, R.

Conductometric determination of ammonia with mercury chloride. Studii chim Timisoara 6 no.1/2:71-76 Ja-Je '60. (EEAI 10:3)

1. Academia R.P.R., membru corespondent Academiei Republicii Populare Romine; Comitetul de redactie, Studii si cercetari stiinte chimice, redactor responsabil (for Dragulescu).
(Mercury chlorides) (Ammonia)
(Conductometric analysis)

GYANDZHUNTSEV, Yervand Tatevosovich, kand. ekon. nauk, dots.; NEDUMOV, Boris Ivanovich, inzh.; SHTRUK, G.G.; POMORNATSKIY, N.N.; ANDRIANOV, B.P., doktor ekon. nauk, prof., retsenzent; KUL'BERG, L.M., dots., kand. tekhn. nauk, retsenzent; GORDON, A.L., red.

[Economics and organization of radio production] Ekonomika i organizatsiia radiotekhnicheskogo proizvodstva. Moskva, Energiia, 1964. 359 p. (MIRA 17:10)

1. Zaveduyushchiy kafedroy ekonomiki promyshlennosti Moskovskogo aviatsionnogo instituta (for Andrianov).
2. Kafedra ekonomiki promyshlennosti Moskovskogo aviatsionnogo instituta (for Kul'berg).

MARKOWSKI, P., mgr inż.; [illegible], ., mgr inż.

Specific results of the first stage of testing the experimental 3D55 type ship engine. Biul techn Cegielski 5:41-45 Special issue '61.

Pomorski, J.

CA **Utilization of sulfate turpentine for the preparation of medicinal products.** B. Bobrański, T. Jakóbiec, and J. Pomorski (Zakład Chem. Farm. A.M., Wrocław). *Acta Polon. Pharm.* 12, 91–6(1955).—By fractional distn. of sulfate turpentine, a waste product of the cellulose industry, the sample yielded approx. 40% pinene; b. 154–60°, of sufficient purity to be used for camphor and terpene hydrate synthesis. L. J. Piotrowski

(2)

POMORSKI, J.

New synthesis of nitryls. Wiad chem 17 no.10:599 O '63.

POMORSKI, J.

Reaction of 1,4-quinoxalinedioxide with acetic acid anhydride.
Wiad chem 17 no. 5: 303 My '63.

BOBRANSKI, B.; POMORSKI, J.

Synthesis of sulfapyridine-N-oxide. Bul Ac Pol chim 7 no.4:203-205 '59. (EEAI 9:7)

1. The L.Hirszfeld Institute of Immunology and Experimental Therapy, Wroclaw, Polish Academy of Sciences. Laboratory of Drug Synthesis, Warsaw. Presented by T.Urbanski.
(Oxides) (Sulfapyridine)

BOBRANSKI, B.; JAKOBIEC, T.; POMORSKI, J.

Problem of waste turpentine sulfate in preparation of drugs.
Acta poloniae pharm. 12 no.2:91-96 1955.

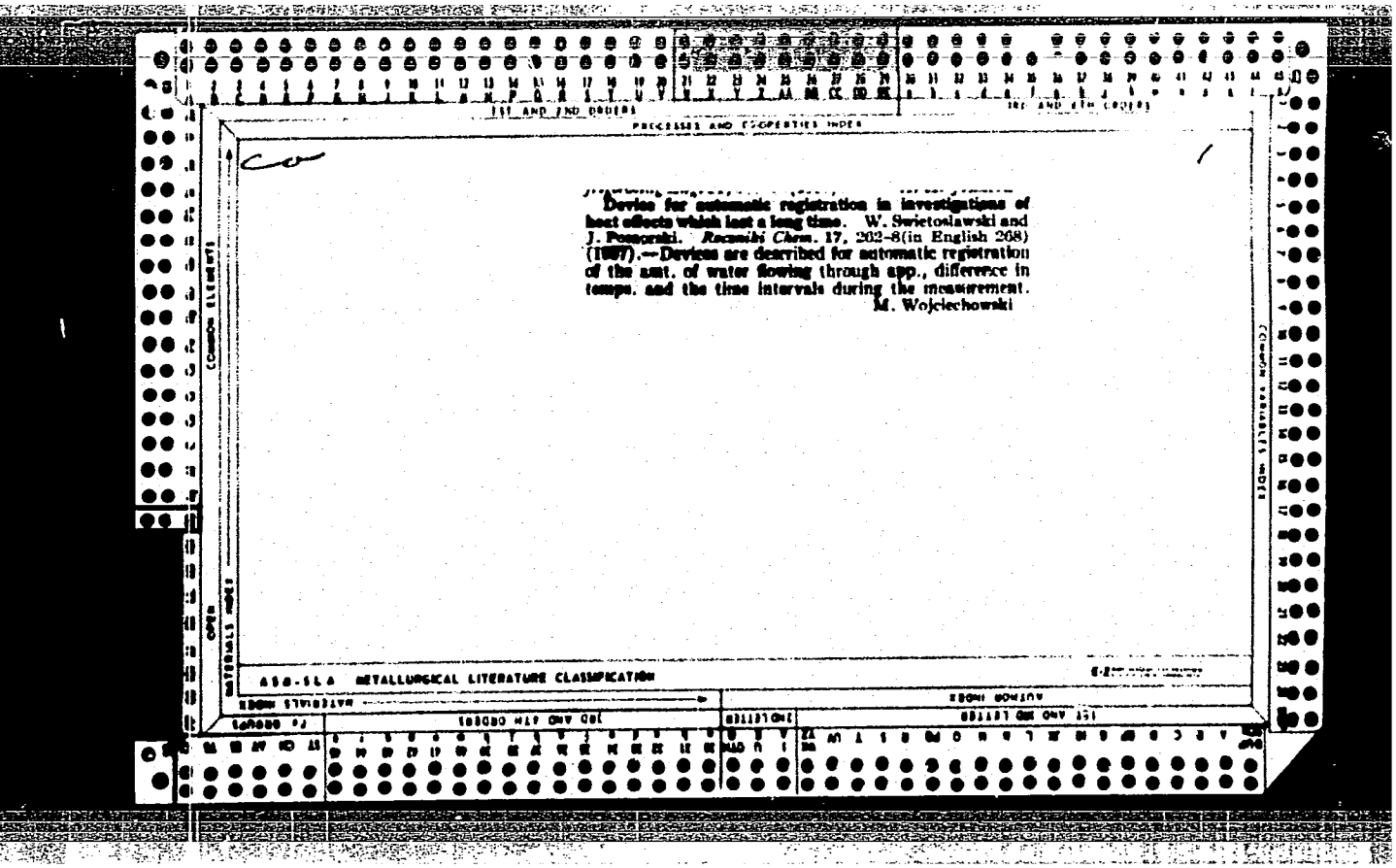
1. Zaklad Chemii Farmaceutycznej A.M. we Wroclawiu. Kierownik:
prof. dr B. Bobranski.
(TURPENTINE,
sulfate, prod. of various drugs)

POMORSKI, J.

1-alkoxy-4-priopionoxypiperidine and its 3-methylhomologs as new sedative agents. Wiad chem 16 no.8:519-520 Ag '62.

POMORSKI, JULIAN

/Preparation of 2-aminothiazole. Bogusław Bobrański, Tadeusz Jakóbiec, and Julian Pomorski (Chem. Acad., Wrocław, Poland). *Roczniki Chem.* 26, 456–7 (1952).—In attempting to prep. 2-aminothiazole (I) from tribromoparaldehyde (II) and thiourea (III) (Leitch and Brickman, U.S. 2,230,962 (C.A. 35, 3270⁸)), a tarry brown mass was obtained instead of I, presumably because, in the absence of water, II did not depolymerize to react with III. The synthesis was modified as follows: 34.8 ml. Br was added during 3 hrs. with stirring to 30 g. paraldehyde and 120 ml. water with the temp. kept at 33–5°, the colorless mixt. treated with 30 g. III, and stirring continued 4 hrs. at 75–80°; neutralization with 50% NaOH (about 140 ml.), to litmus at 35°, extn. with five 60-ml. portions of Et_2O, drying with K_2CO_3, and distn. at 15 mm. gave 38–40 g. (60%) pure I, bp 90°. Janina R. Spencer /



Devices for automatic registration in investigations of heat effects which last a long time. W. Swietoslawski and J. Pomorski. *Roczniki Chem.* 17, 202–8(in English 208) (1937).—Devices are described for automatic registration of the amt. of water flowing through app., difference in temps. and the time intervals during the measurement.
M. Wojciechowski

POMORSKI, Leon; TYS, Jan

Transition reactions of nucleons in interactions of nuclei with heavy ions. Pt.A. Postepy fizyki 15 no.6:651-670 '64.

1. Institute of Nuclear Physics in Krakow (for Pomorski).
2. Institute of Nuclear Research in Warsaw of the Polish Academy of Sciences (for Tys).

POMORSKIY, A.N.

BARIT, G.Yu.; DOROSHENKO, P.A.; ZELENKO, T.V.; POPOV, V.F., professor, doktor tekhnicheskikh nauk; ROKHLIN, A.G.; POMORSKIY, A.N., inzhener, retsenzent; KAYDALOV, L.A., inzhener, retsenzent; GLAZOV, G.A., inzhener, retsenzent.

[Technology of machine construction on ships] Tekhnologiia sudovogo mashinostroeniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry. Pt. 1. 1954. 455 p., Pt.2. 1954. 303 p.
(Marine engines) (Steam boilers, Marine) (MLRA 7:7)

S/056/62/043/003/021/063
B102/B104

AUTHORS: Volkov, V. V., Pomorskiy, L., Tys, Ya., Flerov, G. N.

TITLE: 2n and 3n transfer reaction in the bombardment of Al, Cu and Ta by N^{15} and N^{14} ions

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v.43, no. 3(9), 1962, 865-872

TEXT: The authors studied the transfer of two and three neutrons from the target nuclei (Al, Cu, Ta) to the bombarding ions. The experiments were carried out at the cyclotron of the Laboratoriya yadernykh reaktsii OIYaI (Laboratory of Nuclear Reactions of the OIYaI) which was set in pulsed operation. The bombardment period was 30 sec, since the N^{17} half-life is 4.15 sec. The ion energies were between ~50 and 140 Mev. The time dependence of the N^{17} neutron activity and the dependence of the N^{17} yield on the energy of the bombarding ions was measured with an apparatus described in detail in ZhETF, 41, 1365, 1961. The results obtained for the reaction cross sections were compared with those of transfer reactions of one neutron from the bombarding particle to the target (ZhETF, 33, 595, 1957;

Card 1/2

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya. [Tys, J.]; VIL'CHINSKIY, Ya. [Wilczynski, J.]

Two-neutron transfer reaction in the bombardment of $Zr^{90, 92, 94}$ isotopes by N^{15} ions. Zhur. eksp. i teor. fiz. 45 no.4:897-903 O '63. (MIRA 16:11)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Sotrudnik Instituta yadernoy fiziki, Krakov, Pol'sha (for Pomorskiy). 3. Sotrudnik instituta yadernykh issledovaniy, Varshava, Pol'sha (for Tys). 4. Sotrudnik Yagellonskogo universiteta, Krakov, Pol'sha (for Vil'chinskiy).

FLEROV, G.N.; VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.

Production of N^{17} nuclei by irradiation of some elements with heavy ions. Zhur. eksp. i teor. fiz. 41 no.5:1365-1369 N '61. (MIRA 14:12)

1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Sotrudnik TSentral yadernykh issledovaniy v Krakove, Pol'sha (for Pomorskiy). 3. Sotrudnik Instituta yadernykh issledovaniy v Varshave, Pol'sha (for Tys).

(Nitrogen--Isotopes)
(Ion beams)

VOLKOV, V.V.; POMORSKIY, L.; TYS, Ya.; FLEROV, G.N.; SARANTSEVA, V.R., tekhn. red.

[Transfer reactions of 2n and 3n by irradiation of Al, Cu, and Ta with N^{15} and N^{14} ions] Reaktsii peredachi 2n i 3n pri obluchenii Al, Cu, Ta ionami N^{15} i N^{14}. Dubna, Ob"edinennyi in-t iadernykh issl., 1962. 17 p. (MIRA 15:6)

1. Institut yadernoy fiziki, Krakov, Pol'sha (for Pomorskiy).
2. Institut yadernykh issledovaniy, Varshava, Pol'sha (for Tys).
(Nuclear reactions) (Neutrons) (Ions)

POMORTSEV, A.D.

Dissertations. Dept. of Technical Sciences, Jul-Dec 1957.
Vest. Ak Nauk SSSR, 1958, No. 4, pp.123-123 (USSR)

At the Mining Institute the following dissertations were defended:
for the degree of Doctor of Technical Sciences:

A. Ch. MUSIN - Investigation of the System With Open Purification Space With Adaption to the Exploitation of Sloped Deposits of Dzhezkazgan.

M. A. AL'TSHULER - Improvement of the Exploitation System by Means of Mine Production.

F. A. BARSUKOV - Investigation of the Important Parameters of the Subterranian Extraction by Means of Deep Gaps in the Exploitation of Thick Deposits of Solid Ores With a Magnetic Anomaly of Kursk.

V. I. GOLOMOLZIN - Determination of the Optimum Parameters of the Pits Under the Condition of the Krasnoarmeysk District of the Donets Basin.

G. P. NIKONOV - Investigation of the Hollowing Out of Uncovered Rocks in a Hydraulic Excavator Exploitation of Coal Deposits.

A. D. POMORTSEV - Investigation of the Suitability of the Exploitation of Steep Layers of a Thickness of 2-4, by Means of a Shield System.

POMORTSEV, A.D.

SKOCHINSKIY, A.A.; TERPIGOREV, A.M.; SHEVYAKOV, L.D., SERGEYEV, A.A.; ZAKHAROV, P.A.; USKOV, S.I.; AGOSHKOV, M.I.; MEL'NIKOV, N.V.; BRONNIKOV, D.M.; YENIKEYEV, N.B.; PROTOPOPOV, D.D.; SUDOPLATOV, A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; NAZARCHIK, A.F.; TERPOGOSOV, Z.A.; BARSUKOV, F.A.; POMORTSEV, A.D.; DEMIDYUK, G.P.; MOLCHANOV, P.V.; MAKSIMOVA, Ye.P.; GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY, N.S.; BOGOMOLOV, V.I.; KHODOV, L.V.; MOSKAL'KOV, Ye.F.; GONCHAROV, T.I.

Aleksandr Vasil'evich Kovazhenkov; obituary. Bezop. truda v prom. 1 no.12:35 D '57. (MIRA 12:3)
(Kovazhenkov, Aleksandr Vasil'evich, 1906-1957)

POMORTSEV, A.D., kand.tekhn.nauk

Scientific seminar at the Institute of Mining. Vest.AN SSSR 29 no.2:96-97 F '59. (MIRA 12:4)
(Coal mines and mining)

18(5)

SOV/30-59-2-41/60

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

TITLE: Scientific Seminar at the Mining Institute (Nauchnyy seminar v Institute gornogo dela)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 2, pp 96-97 (USSR)

ABSTRACT: The outburst represents a great danger in the exploitation of coal pits. The Tsentral'naya komissiya po bor'be s vnezapnymi vybrosami uglya i gaza pri Institute gornogo dela Akademii nauk SSSR (Central Commission for the Prevention of Outbursts of Coal and Gas at the Mining Institute of the Academy of Sciences, USSR) organized an All-Union scientific seminar for the discussion and investigation of this problem from October 29 to November 1, 1958 under the chairmanship of A. A. Skochinskiy. In his report I. M. Pechuk criticized the hypotheses made in recent time (by S. A. Khristianovich, V. S. Kravchenko) on this process and partly agreed with the opinion of M. P. Volarovich and E. I. Parkhomenko. Pechuk said that according to his hypothesis outburst is a consequence of remaining tectonic tensions. A. A. Skochinskiy regards this hypothesis as being unfounded. For the first time it was possible to reproduce this phenomenon

Card 1/2

POMORTSEV, A.D., kand.tekhn.nauk

Developing measures for the prevention of sudden outbursts. Bezop. truda v prom. 2 no.5:37-38 My '58. (MIRA 11:4)
(Coal mines and mining--Safety measures)

POMORTSEV, A. D.

""Investigation of the Expediency of Working Steeply Declining Layers of the Shield System Having a Thickness of 2 - 4m."

dissertation defended for the degree of Candidate of Technical Sciences at the Inst. for Mining.

Defense of Dissertations (Jan-Jul 1957)
Sect. of Tech. Sci.
Vest. AN SSSR, 1957, V. 27, No. 12, pp. 120-122

POMORTSEV, A. D.

OKHRIMENKO, Veniamin Antonovich, inzhener; KOLOSOV, Aleksandr Vasil'yevich, inzhener; POMORTSEV, A.D., otvetstvennyy redaktor; SLAVOROSOV, A.Kh., redaktor izdatel'stva; KOROVENKOVA, Z.A., tekhnicheskiy redaktor

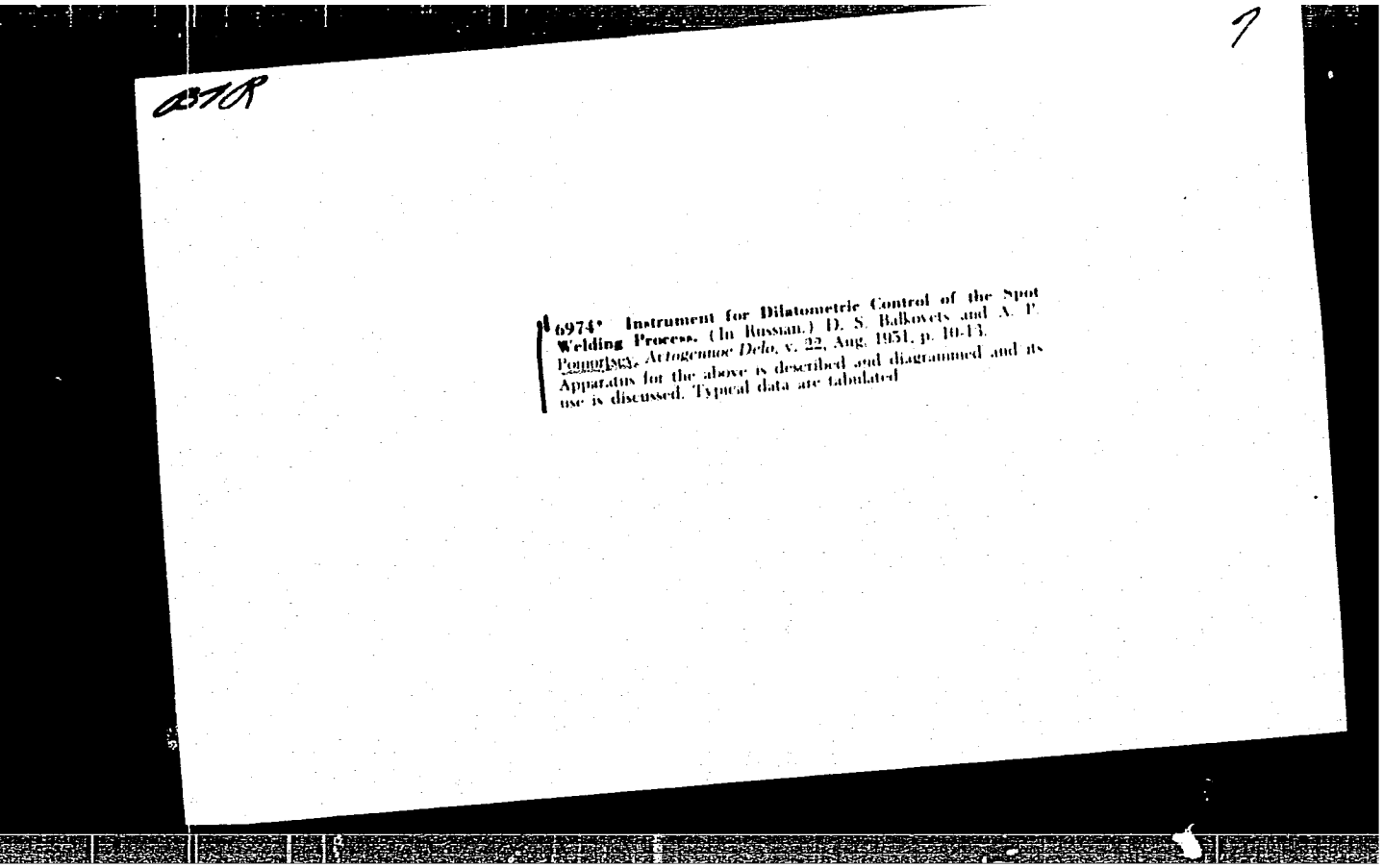
[New shields for working steep and flat seams] Novye shchitovye perekrytiia pri razrabotke krutykh i naklonnykh plastov. Moskva, Ugletekhizdat, 1957. 167 p. (MLRA 10:9)
(Coal mines and mining)

POMORTSEV, A. D.

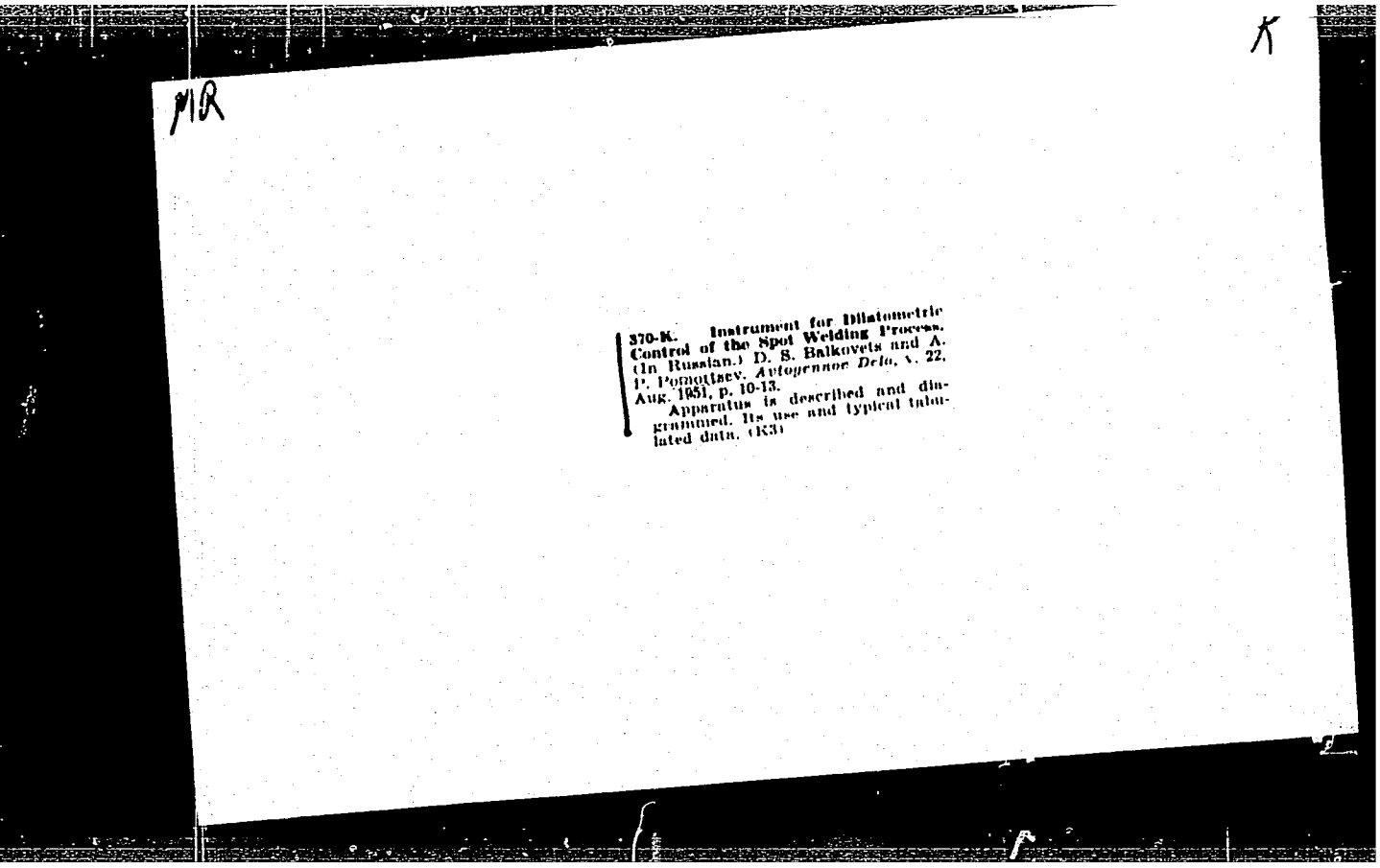
Pomortsev, A. D.

"Investigation of the efficiency of working inclined seams 2-4 meters thick by the panel system." Acad Sci USSR. Inst of Mining. Moscow, 1956. (Dissertation for the Degree of Doctor in Sciences.)

Knizhnaya letopis'
No. 35, 1956. Moscow.

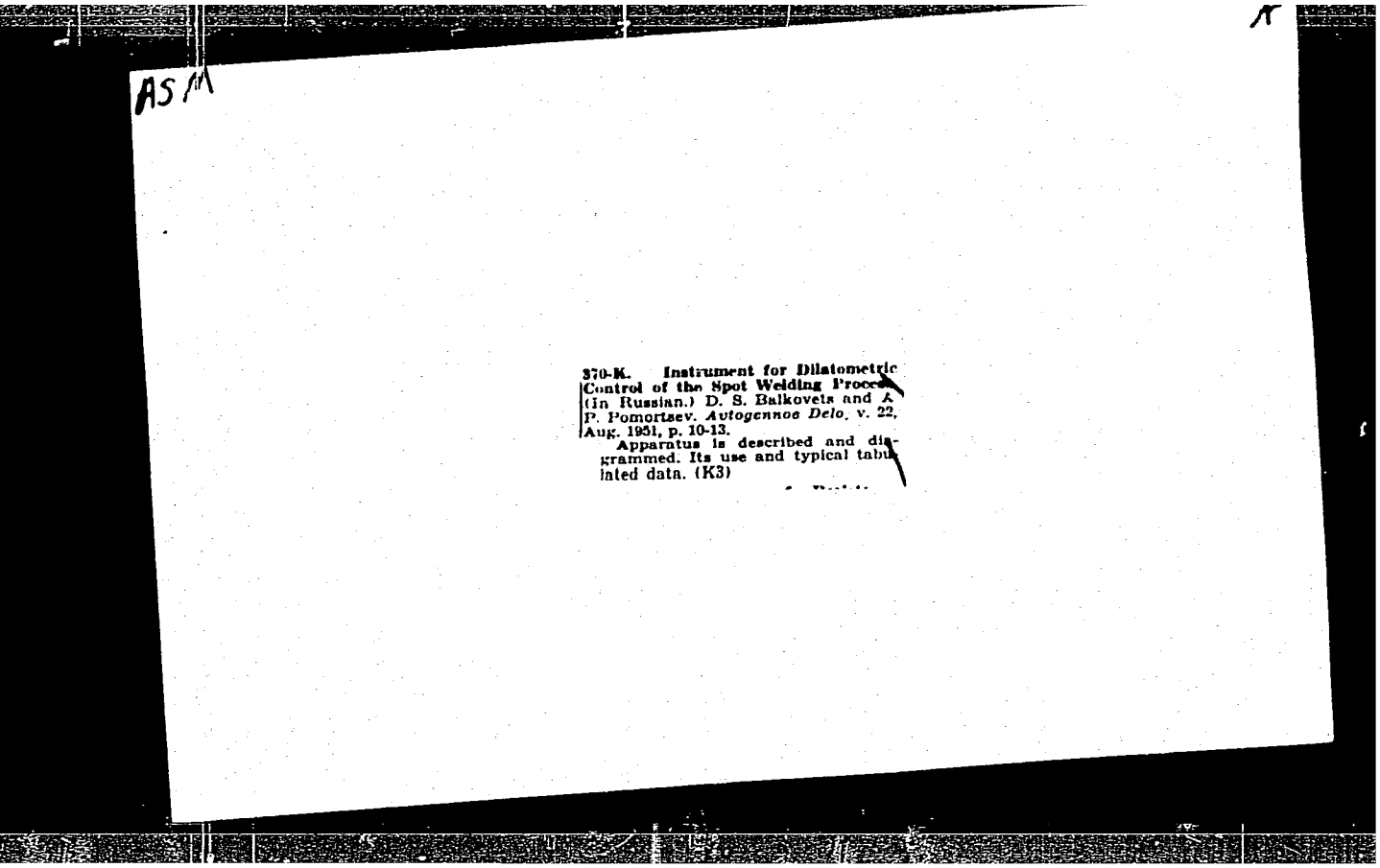


6974* **Instrument for Dilatometric Control of the Spot Welding Process.** (In Russian.) D. S. Balkovets and A. P. Pomortsev. *Avtogennoe Delo*, v. 22, Aug. 1951, p. 10-13.
Apparatus for the above is described and diagrammed and its use is discussed. Typical data are tabulated



370-K. **Instrument for Dilatometric Control of the Spot Welding Process.** (In Russian.) D. S. Balkovets and A. P. Pomortsev. *Avtogennoe Delo*, v. 22, Aug. 1951, p. 10-13.

Apparatus is described and diagrammed. Its use and typical tabulated data. (IBS)



AS M

370-K. Instrument for Dilatometric Control of the Spot Welding Proces (In Russian.) D. S. Balkovets and A. P. Pomortsev. *Avtogennoe Delo*, v. 22, Aug. 1951, p. 10-13.

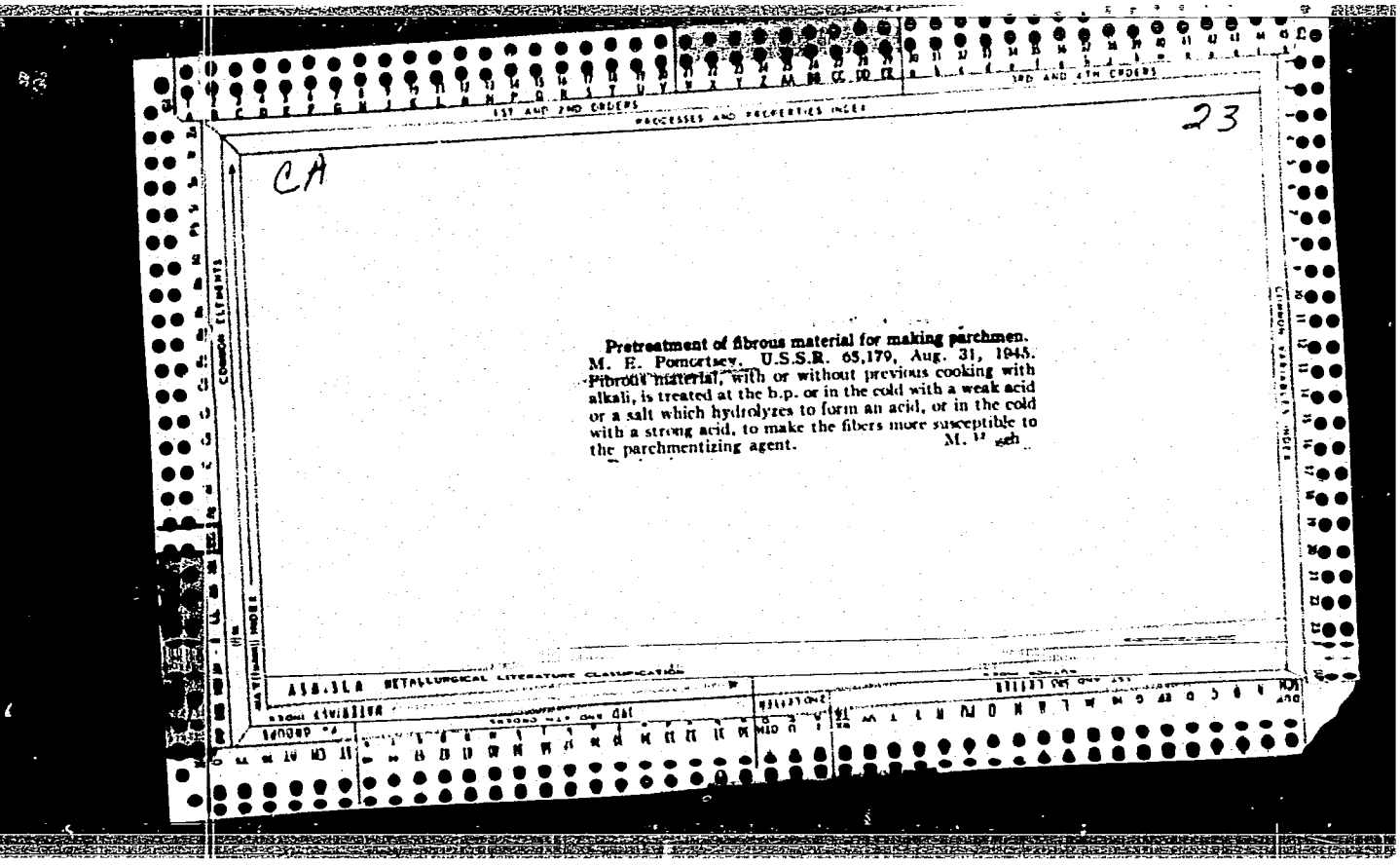
Apparatus is described and diagrammed. Its use and typical tabulated data. (K3)

POMORTSEV, G., podpolkovnik veterinarnoy sluzhby zapasa

Dangerous disease in dogs. Voen.znan. 38 no.12:36 D '62.
(MIRA 15:12)
(Dogs—Diseases and pests)

DEDYURIN, M.A., POMORTSEV, G.N. YEMEL'YANOV, B.M. and PETROVICHEVA, O.D.

"Distribution of toxoplasmosis in dogs..."
Veterinariya, vol. 39, no. 3, March 1962 pp. 58



CA

23

Pretreatment of fibrous material for making parchmen. M. E. Pomortsev. U.S.S.R. 65,179, Aug. 31, 1945. Fibrous material, with or without previous cooking with alkali, is treated at the b.p. or in the cold with a weak acid or a salt which hydrolyzes to form an acid, or in the cold with a strong acid, to make the fibers more susceptible to the parchmentizing agent. M. U. Sch

POMORTSOV, M. E.
I. L. KAGAN, Tsentral. Nauch. Issledovatel. Inst. Burnash. Prom., Materialy, 1937, Nos. 23-24, 235-58

1ST AND 2ND ORDERS

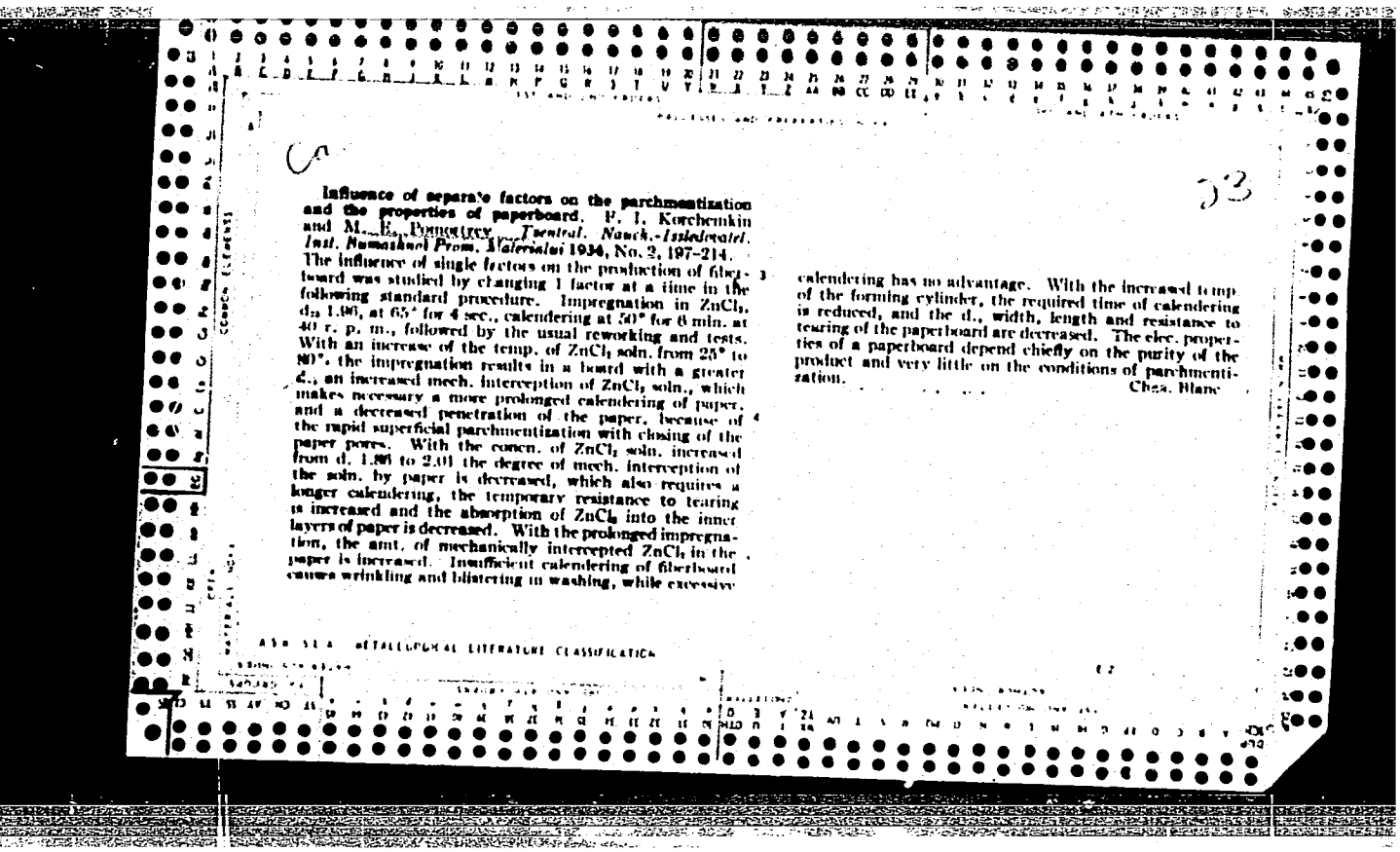
PROCESSES AND PROPERTIES INDEX

BC

B-II-5

Influence of separate factors on parchmentization and properties of paperboard. V. I. [illegible] and [illegible] (Tsent. Nauch.-Issl. Inst. Bumazh. Prom., [illegible], No. [illegible], 197—214).—Rise in the impregnation temp. for aq. $ZnCl_2$ (d^{20} 1·90) from [illegible]° to [illegible]° results in a board with greater d, in an increased mechanical interception (I) of aq. $ZnCl_2$, necessitating longer calendering, and in a decreased penetration of the paper. With increase in d to 2·01 the (I) is decreased. Prolonged impregnation increases (I). With rising temp. of the forming cylinder, the time of calendering is reduced, and the d, width, length, and resistance to tearing of the paperboard are decreased. CH. ABS. (e)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Influence of separate factors on the parchmentization and the properties of paperboard. P. I. Korchemkin and M. E. Pomortzev. *Tsentral. Nauch.-Issledovatel. Inst. Numazhnoi Prom. Materialov* 1936, No. 3, 197–214. The influence of single factors on the production of fiberboard was studied by changing 1 factor at a time in the following standard procedure. Impregnation in $ZnCl_2$, d_{20} 1.80, at 65° for 4 sec., calendering at 50° for 6 min. at 40 r. p. m., followed by the usual reworking and tests. With an increase of the temp. of $ZnCl_2$ soln. from 25° to 80°, the impregnation results in a board with a greater d., an increased mech. interception of $ZnCl_2$ soln., which makes necessary a more prolonged calendering of paper, and a decreased penetration of the paper, because of the rapid superficial parchmentization with closing of the paper pores. With the concn. of $ZnCl_2$ soln. increased from d. 1.80 to 2.01 the degree of mech. interception of the soln. by paper is decreased, which also requires a longer calendering, the temporary resistance to tearing is increased and the absorption of $ZnCl_2$ into the inner layers of paper is decreased. With the prolonged impregnation, the amt. of mechanically intercepted $ZnCl_2$ in the paper is increased. Insufficient calendering of fiberboard causes wrinkling and blistering in washing, while excessive calendering has no advantage. With the increased temp. of the forming cylinder, the required time of calendering is reduced, and the d., width, length and resistance to tearing of the paperboard are decreased. The elec. properties of a paperboard depend chiefly on the purity of the product and very little on the conditions of parchmentization.

Chas. Blanc

VASIL'YEV, Daniil Nikolayevich; POMORTSEV, M.Ye., red.; BEL'CHENKO, N.I., red.izd-va; BACHURINA, A.M., tekhn.red.

[Fiberboard manufacture] Proizvodstvo fibry. Moskva, Goslesbumizdat, 1959. 169 p. (MIRA 12:6)
(Paperboard) (Metals, Substitutes for)

POMORTSEV, M. Ye.

POMORTSEV, M. Ye. -- "Investigation of the Phenomena of Deformation in Drying Thick-Walled Fibrous Parts." Min Higher Education USSR. Leningrad Order of Lenin Forestry Engineering Academy imeni S. M. Kirov. Leningrad, 1955. (Dissertation for the Degree of Canididate in Technical Sciences)

So; Knizhnaya Letopis' No 3, 1956

POMORTSEV, P. A.

Marien hydraulic engineering; testbook. Moskva, Stroivoenmorizdat, 1948. 211 p. (50-15905)

TC205.P6

ACCESSION NR: AP4028992 S/0126/64/017/003/0343/0349

AUTHOR: Kalashnikov, V. P.; Pomortsev, R. V.

TITLE: On the nonlinear theory of galvanomagnetic phenomena in semiconductors

SOURCE: Fizika metallov i metallovedeniye, vol. 17, no. 3, 1964, 343-349

TOPIC TAGS: nonlinear theory, galvanomagnetic phenomena, semiconductor, nonlinearity, galvanomagnetic coefficient, drift dissipative current

ABSTRACT: The authors derived nonlinear expressions according to an electric field for the cross sectional dissipation current and the strength of phonon radiation in a semiconductor, located in crossed electrical and magnetic fields. It is shown that the nonlinearity of galvanomagnetic coefficients is associated with the heating of conductivity electrons, as well as with the increase in the velocity of their orderly drift. Classical and quantum limits are examined. The authors limited their examination to the impure, non-piezoelectric semiconductors at moderate temperatures so that the phonon scattering would be overcome and secondly it would be possible to disregard the nonequilibrium of the phonons. The authors show that: one type of nonlinearity is associated with the chaotic movement of electrons and is described by the dependence of the effective temperature on the electrical field, the second

Card 1/2

ACCESSION NR: AP4028992

type is associated with the orderly drift and is described by the dependence of the drift velocity on the electric field. The authors also examine the elastic as well as nonelastic collisions in order to calculate the current for the linear theory of transfer phenomena in strong magnetic fields. The result of the mathematical arguments differs from the curve produced by R. F. Kazarinov and V. G. Skobov (ZhETF, 1962, v. 42, p. 1047; 1962, v. 44, p. 1368) in that the decreasing sector of volt-ampere characteristics in the authors' formulas precede the intense growth of the current associated with drift nonlinearity. At sufficiently low temperatures and high mach numbers, the authors' formula is inapplicable. In addition, it is obviously impossible to disregard the nonequilibrium of the phonons when $\beta \gg 1$. The authors express their gratitude to C. S. Zy*ryanov and G. G. Taluts for their evaluation of the work. Orig. art. has: 20 formulas and 1 figure

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of the Physics of Metals, AN SSSR)

SUBMITTED: 10Jly63 DATE ACQ: 27Apr64 ENCL: 00

SUB CODE: PH, GE NO REF SOV: 004 OTHER: 004

Card 2/2

POMORTSEV, R.V.; TSIDIL'KOVSKIY, I.M.

Movement of a conductivity electron in a strong electric field. Fiz. met. i metalloved. 17 no.1:155-158 Ja '64. (MIRA 17:2)

1. Institut fiziki metallov AN SSSR.

24.2500

S/126/62/013/003/004/023
E025/E535

AUTHORS: Kobolev, L.Ya., Nikulin, V.K. and Pomortsev, R.V.

TITLE: On the representation of the electrical conductivity tensor by means of line integrals. I

PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.3, 1962, 351-358

TEXT: An expression is written down for the electrical current density of a nonrelativistic system of interacting particles in terms of the single particle Green's temperature function and the variation of the electrical current density is expressed as the integral of the product of the electrical conductivity tensor and the electric field. From this an expression is obtained for the electrical conductivity tensor which is simplified by neglecting magnetic fields. The single particle Green's function is then expressed in terms of the two-particle Green's function and the connection between the density of the electrical conductivity tensor and the collision integral is given. The Green's functions for the one- and two-particle cases are then represented as line integrals in a functional space of vector trajectories for the case when magnetization is

Card 1/2

absent. The modifications necessary when the particles are magnetized are discussed. These enable the subsequent calculation of the temperature-time correlation in the system from the known distribution function of the particles in a self-consistent field. The variational derivatives of the one- and two-particle Green's functions are then calculated for the case when magnetic fields are absent. A series expression is obtained for the electrical conductivity tensor. In the appendix an approximate expression is obtained for the collision integral taking magnetization into account but the treatment is limited to the consideration of the first term of the compensation theory of the two-particle Green's function.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet imeni A. M. Gor'kogo
(Ural State University imeni A. M. Gor'kiy)

SUBMITTED: July 6, 1961

POMORTSEV, S.V.

[Brucellosis in cattle in the Yakut A.S.S.R. and methods of controlling it] Brutsellez krupnogo rogatogo skota v IAkutskoi ASSR i mery bor'by s nim. IAkutsk, IAkutskoe knizhnoe izd-vo, 1958. 13 p. (MIRA 12:3)

(Yakutia--Brucellosis in cattle)

REEL # 436

(END)

POLYAKOV, G.O.

POMIRTSEV, S.V.