VAYNSHTEYN, B.S., kand. ekon. nauk; LEYKINA, K.B.; MINTS, M.G.; LUCHINSKIY, S.M.; KIYEVSKIY, V.G., kand. ekon. nauk; VINER, G.A.; [illegible]; GUREVICH, M.S.; ZIKEYEV, B.V., kand. tekhn. nauk; RUBINOV, [illegible]; SARYCHEV, V.S., kand. tekhn. nauk; APARIN, I.L.; KRINITSKAYA, M.Ye.; DZIKOVSKIY, G.I.; ZEL'TSER, R.Ya.; GOL'DENBERG, I.L.; ISAKOVSKIY, I.G.; DEMIDOVA, S.N., [illegible]

[Economic efficiency of capital investments and the introduction of new equipment in construction] Ekonomicheskaia effektivnost' kapital'nykh vlozhenii i vnedreniia novoi tekhniki v stroitel'stve. Moskva, Stroiizdat, 1965. 235 p. (MIRA 18:8)

1. Moscow. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva. 2. Rukovoditel' sektora ekonomicheskoy effektivnosti novoy tekhniki Nauchno-issledovatel'skogo instituta ekonomiki stroitel'stva, Moskva (for Kiyevskiy). 3. Sektor ekonomicheskoy effektivnosti novoy tekhniki Nauchno-issledovatel'skogo instituta ekonomiki stroitel'stva, Moskva (for all except Demidova). 4. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva, Moskva (for Demidova).

ZIKEYEV, Boris Vasil'yevich, kand. tekhn. nauk, dots.; SHUBNIKOV, A.K., prof., red., doktor tekhn. nauk; GAVRILOV, G.V., red.

[Course on the study of materials with brief information on the technology of production]Kurs materialovedeniia s kratkimi svedeniiami po tekhnologii proizvodstva. Pod red. A.K.Shubnikova. Izd.2.,perer. i dop. Moskva, Zaochnyi finansovo-ekon.in-t. (MIRA 15:11)
Pt.1. 1961. 310 p.

1. Zaveduyushchiy kafedroy materialovedeniya Moskovskogo instituta inzhenerov transporta im. Stalina (for Shubnikov).
(Materials)

ZIKEYEV, G.S.; SLYATKES, M.K.

New circuits for periodic current reversing during electroplating. Avt.i trakt.prom. no.10:31-32 O '57. (MIRA 10:12)

1. Stalingradskiy traktornyy zavod.
(Electroplating)

ZIKEYEV, M.T.

It is possible to lengthen the service life of bridge footings. Put' i put. khoz. 9 no.12:33 '65. (MIRA 19:1)

1. Starshiy inzh. Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo stroitel'stva.

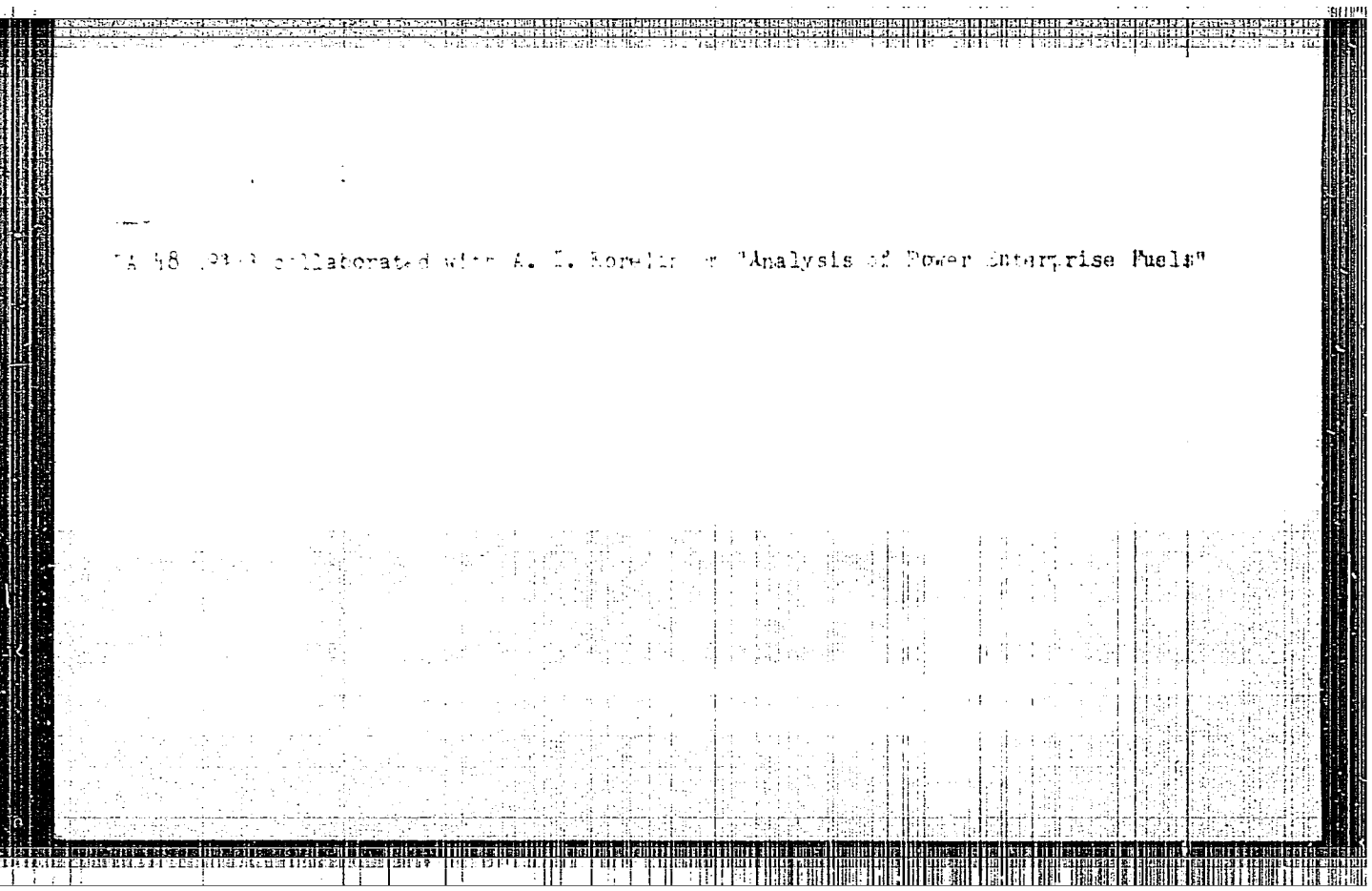
RAPKOV, V., PEKELIS, V.; YAKHONTOVA, Z., redaktor; ZIKEYEV, N., khudozhestvennyy redaktor; SOKHENZON, A., tekhnicheskiy redaktor.

[The young motion-picture operator] IUnyi kinomekhanik. [Moskva] Izd-vo TsK VLKSM "Molodaia gvardiia," 1954. 110 p. (MLRA 8:1)
(Motion-picture projection)

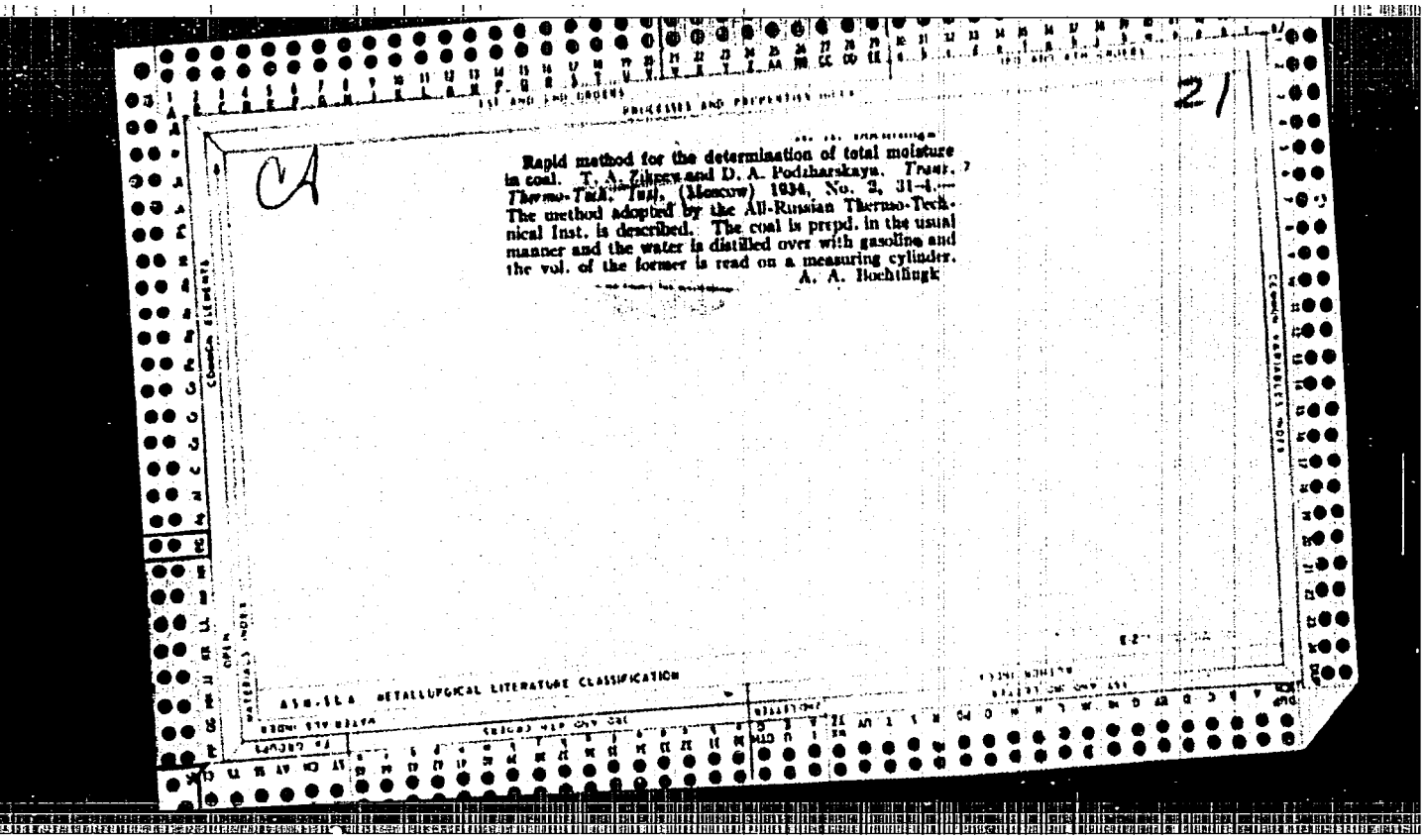
ZIKEYEV, P.D.

ZIKEYEV, P.D.

Sergei Petovich Botkin; on the 125th anniversary of his birth. (MIRA 10:11)
Klin.med. 35 no.8:15-23 Ag '57.
(BOTKIN, SERGEI PETROVICH, 1832-1889)



"A 48 [illegible] collaborated with A. E. Forella[illegible] "Analysis of Power Enterprise Fuels"



CA

21

Rapid method for the determination of total moisture in coal. T. A. Zhirov and D. A. Podzharskaya. *Trans. Thermo-Tech. Inst.* (Moscow) 1934, No. 2, 31–4.—The method adopted by the All-Russian Thermo-Technical Inst. is described. The coal is prepd. in the usual manner and the water is distilled over with gasoline and the vol. of the former is read on a measuring cylinder.
A. A. Bochiflugk

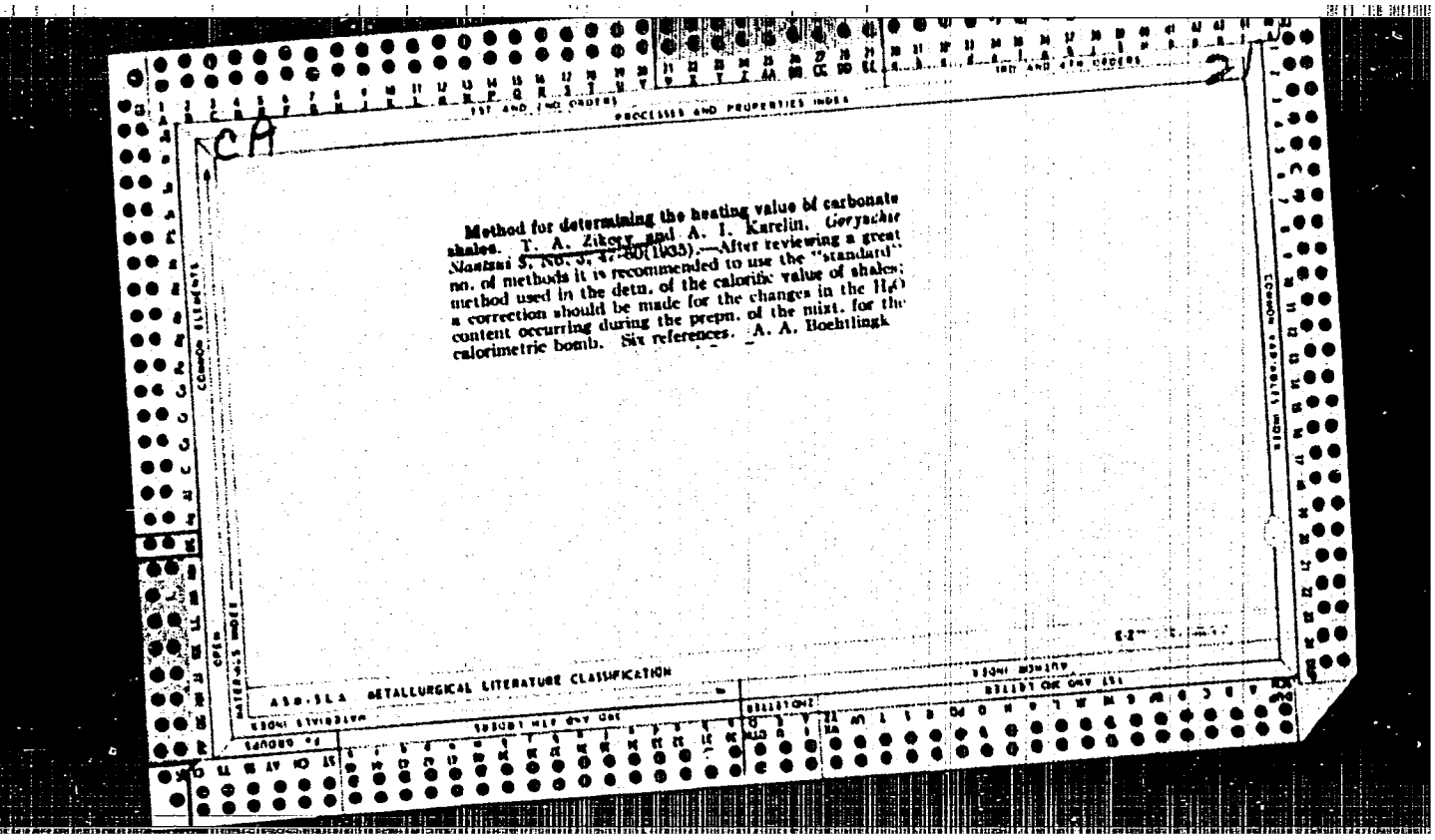
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZIKEYEV, T.A.

ZIKEVEV T. A.

And Podzharskaya D. A. Opyt Utochneniya Metodiki Analiza Karbonatnykh Slantsev, Goryuchiye Slantsy, 1934, No. 2,44, No. 3,26

SO: Goryuchiye Slantey #1934-35 TN. 871 G74



CA

Method for determining the heating value of carbonate shales. T. A. Zikeev and A. I. Karelin. *Goryuchie Slantsi* S, No. 3, 47-80(1935).—After reviewing a great no. of methods it is recommended to use the "standard" method used in the detn. of the caloritic value of shales; a correction should be made for the changes in the H_2O content occurring during the prepn. of the mixt. for the calorimetric bomb. Six references. A. A. Boehtlingk

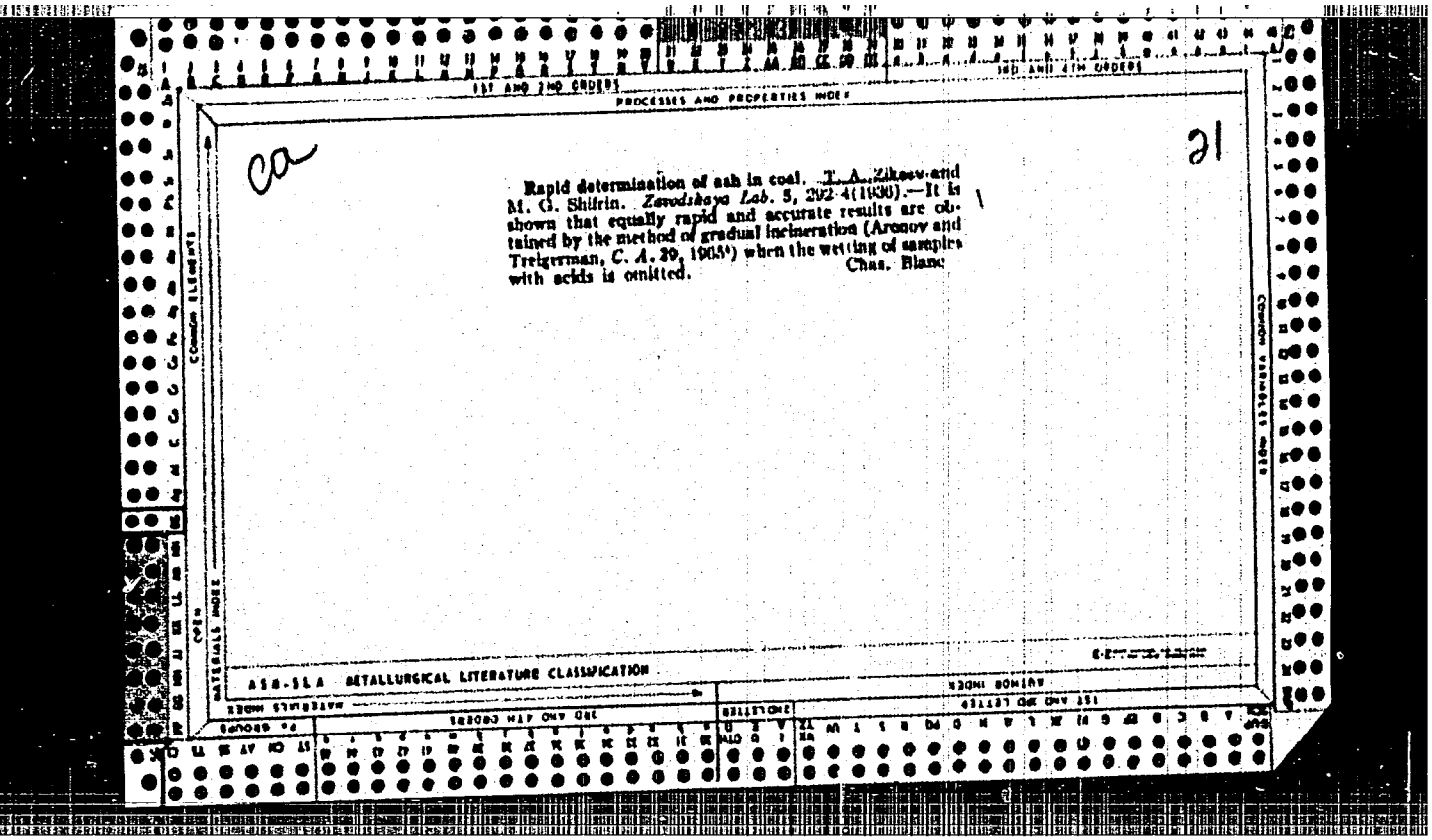
PROCESSES AND PROPERTIES INDEX

CA

7

Substitute for pyrogallol in gas analysis. P. Zikov. *Novosti Tekhniki, Seriya Gorno-Rudnoi Prom.* 1935, No. 11, 12.—It is proposed to replace pyrogallol in the O_2 detn. with an alk. soln. of hyposulfite (20 parts $Na_2S_2O_4$, 10 KOH and 70 H_2O). This soln., it is claimed, is not inferior in its absorption properties to pyrogallol, does not release CO and the velocity of O_2 absorption is independent of the temp. A. A. Boehtlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



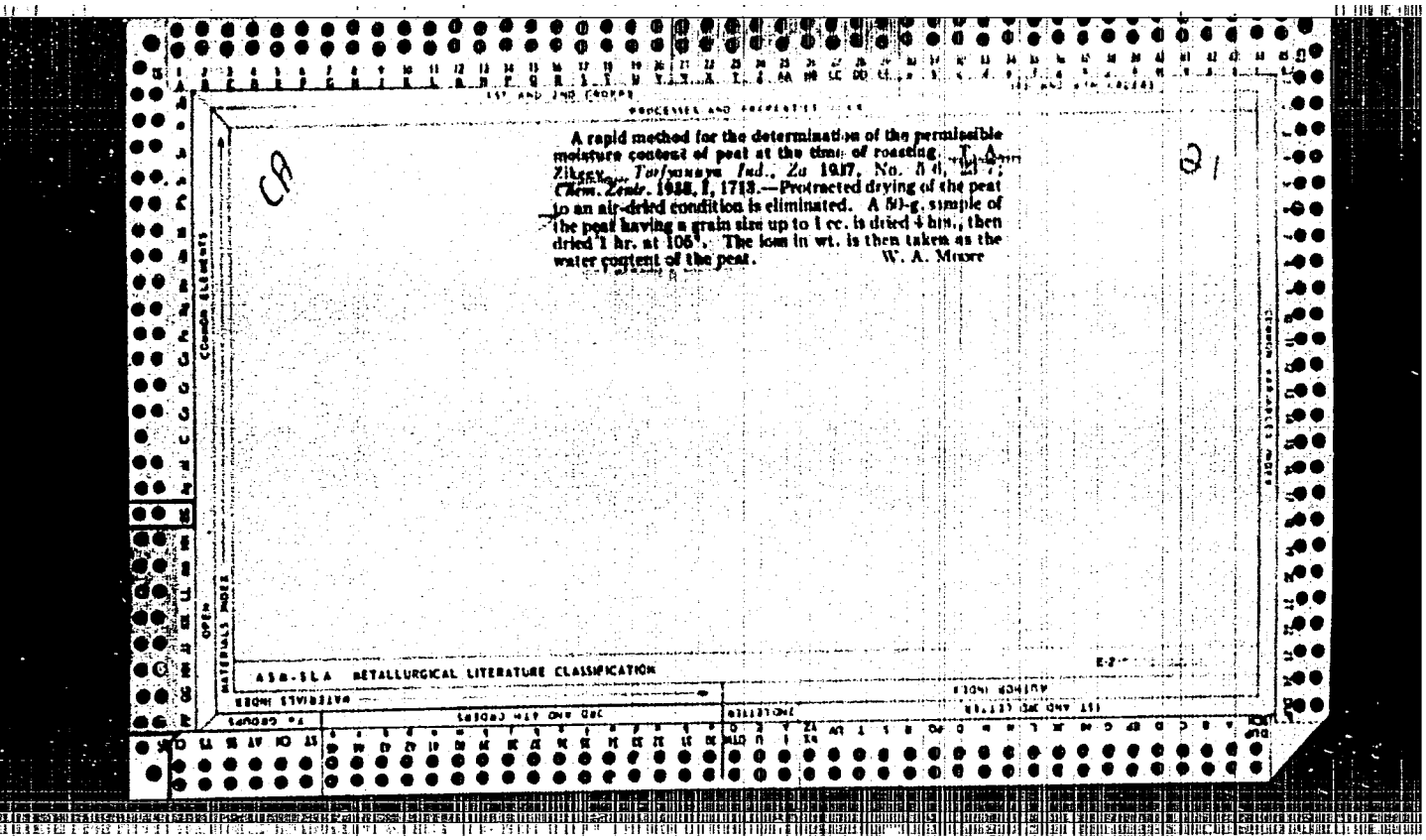
PROCESSES AND PROPERTIES INDEX

ca

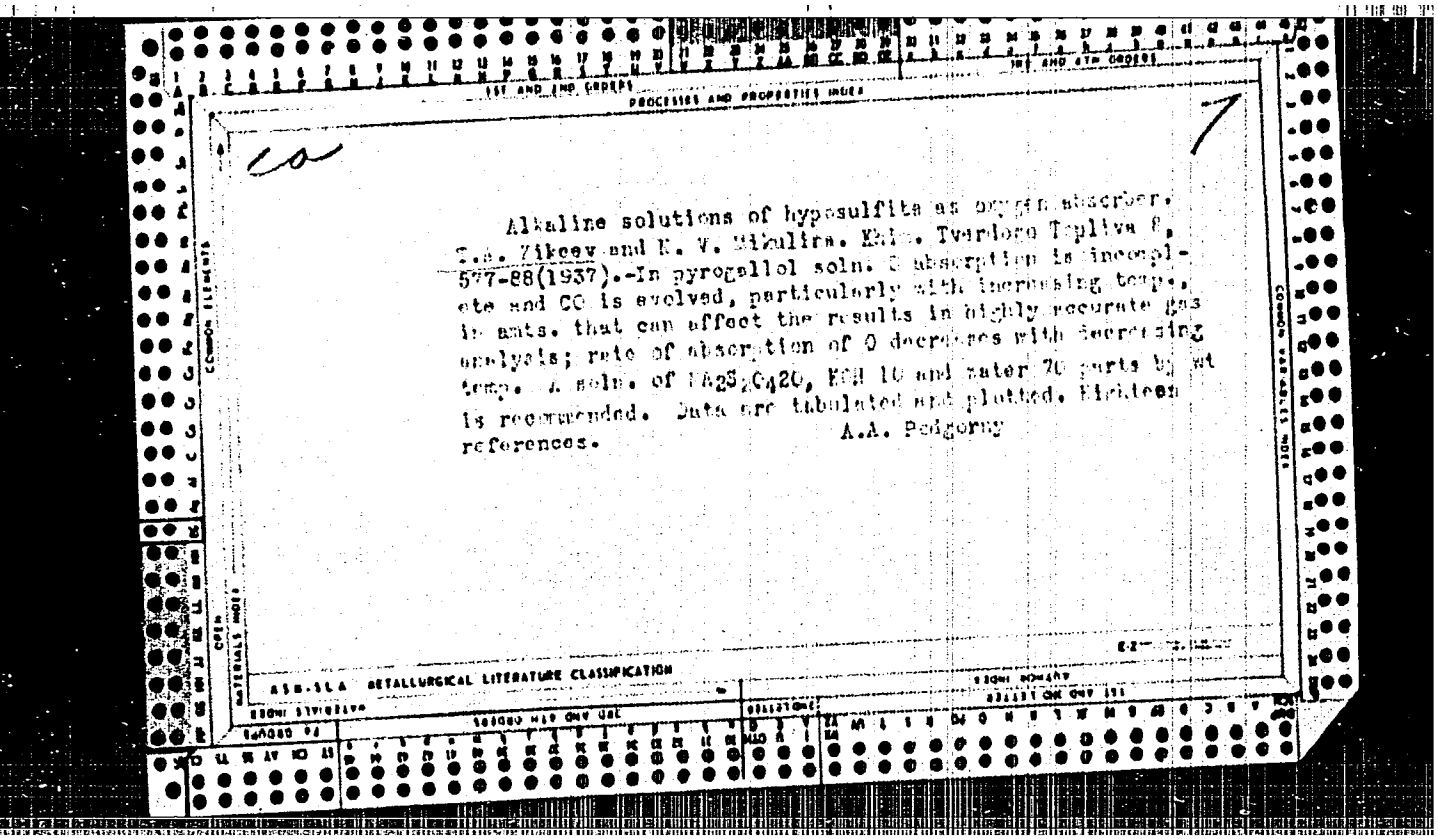
21

Rapid determination of ash in coal. T. A. Zikeev and M. G. Shifrin. *Zavodskaya Lab.* 5, 202-4(1936).—It is shown that equally rapid and accurate results are obtained by the method of gradual incineration (Aronov and Treigerman, *C. A.* 29, 1905[8]) when the wetting of samples with acids is omitted. Chas. Blanc

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION



A rapid method for the determination of the permissible moisture content of peat at the time of roasting. T. A. Zilaev. *Torfyanaya Ind.*, *Za* 1937, No. 5-6, [illegible]; *Chem. Zentr.* 1938, I, 1713.—Protracted drying of the peat to an air-dried condition is eliminated. A 50-g. sample of the peat having a grain size up to 1 cc. is dried 4 hrs., then dried 1 hr. at 105°. The loss in wt. is then taken as the water content of the peat. W. A. Moore

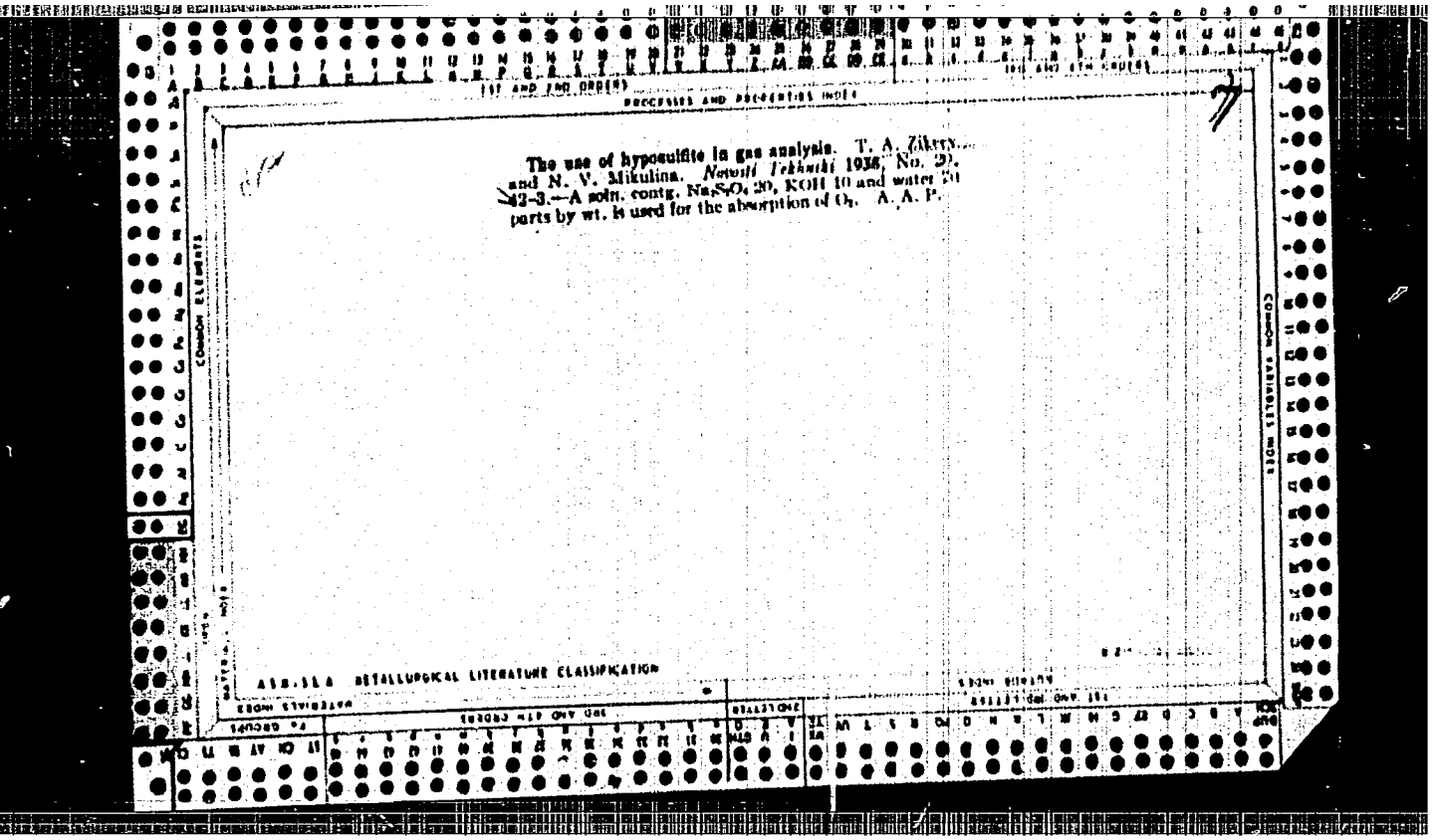


PROCESSES AND PROPERTIES INDEX

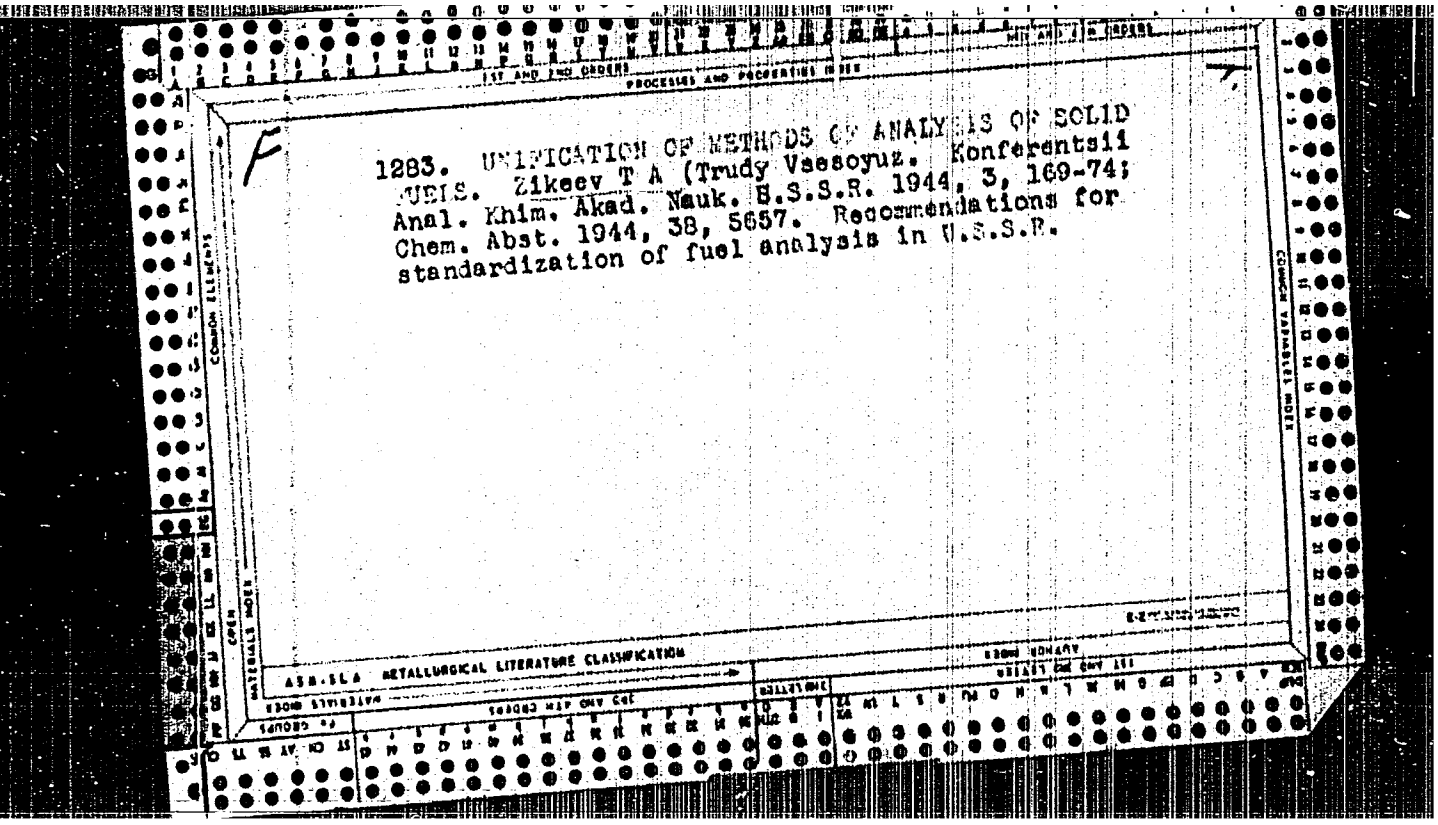
Alkaline solutions of hyposulfite as oxygen absorbers. S.A. Yikeev and K. V. Mikulina. Khim. Tverdogo Topliva 8, 577-88(1937).--In pyrogallol soln. O absorption is incomplete and CO is evolved, particularly with increasing temp., in amts. that can affect the results in highly accurate gas analysis; rate of absorption of O decreases with increasing temp. A soln. of $Na_2S_2O_4$20, KOH 10 and water 70 parts by wt is recommended. Data are tabulated and plotted. Eighteen references.

A.A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



The use of hyposulfite in gas analysis. T. A. Zikeev and N. V. Mikulina. *Neftyanoe Tekhnika* 1936, No. 2, 42-3.—A soln. contg. $Na_2S_2O_4$ 20, KOH 10 and water 70 parts by wt. is used for the absorption of O_2. A. A. P.



F

1283. UNIFICATION OF METHODS OF ANALYSIS OF SOLID FUELS. Zikeev T A (Trudy Vsesoyuz. Konferentsii Anal. Khim. Akad. Nauk. S.S.S.R. 1944, 3, 169-74; Chem. Abst. 1944, 38, 5657. Recommendations for standardization of fuel analysis in U.S.S.R.

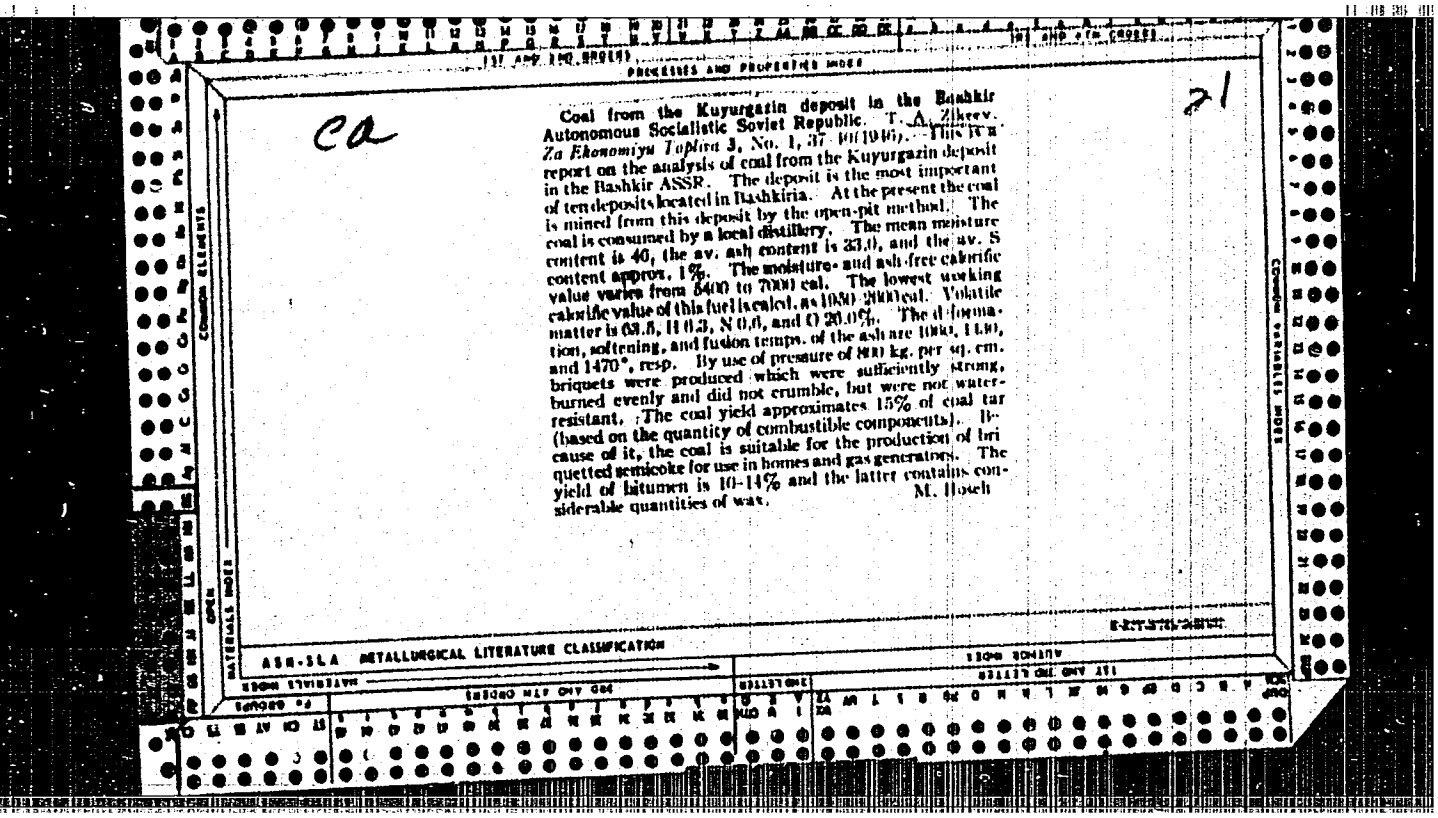
ZIKEYEV, T.A., kand.tekhn.nauk; KLEYMENOVA, I.I., inzh.

Properties of oxidized coal, mined in open pits of the Kuznetsk Basin [with summary in English]. Teploenergetika 6 no.3:55-61 Mr '59. (MIRA 12:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Kuznetsk Basin--Coal)

ZIKEYEV, T. A.; and KORELIN, A. I.

Analiz Energeticheskovo Topliva (Analysis of Power Fuel), Moscow-Leningrad, 1946.



Ca

Coal from the Kuyurgazin deposit in the Bashkir Autonomous Socialistic Soviet Republic. T. A. Zikeev. *Za Ekonomiyu Topliva* 3, No. 1, 37–60 (1946). This is a report on the analysis of coal from the Kuyurgazin deposit in the Bashkir ASSR. The deposit is the most important of ten deposits located in Bashkiria. At the present the coal is mined from this deposit by the open-pit method. The coal is consumed by a local distillery. The mean moisture content is 40, the av. ash content is 33.0, and the av. S content approx. 1%. The moisture- and ash-free calorific value varies from 5400 to 7000 cal. The lowest working calorific value of this fuel is calcd. as 1030–2000 cal. Volatile matter is 63.5, H 6.3, N 0.6, and O 20.0%. The deformation, softening, and fusion temps. of the ash are 1000, 1180, and 1470°, resp. By use of pressure of 800 kg. per sq. cm. briquets were produced which were sufficiently strong, burned evenly and did not crumble, but were not water-resistant. The coal yield approximates 15% of coal tar (based on the quantity of combustible components). Because of it, the coal is suitable for the production of briquetted semicoke for use in homes and gas generators. The yield of bitumen is 10–14% and the latter contains considerable quantities of wax.

M. Hoseh

ZIKEYEV, T. A.

PA 38T88

USSR/Mines and Mining Jul/Aug 1946
Coal

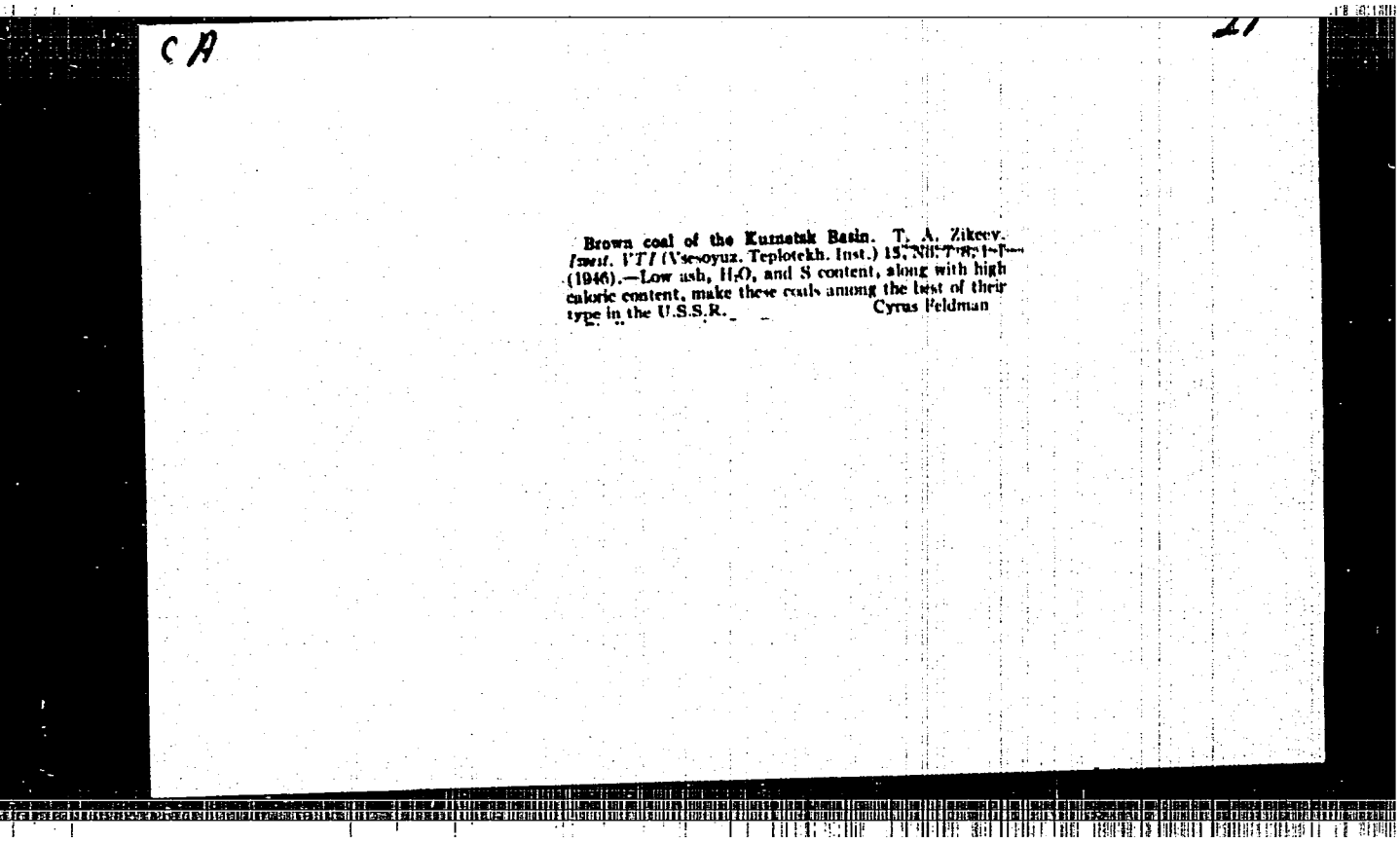
"Mining the Osinnikovskiy Brown Coals of the Kuznetsk Basin," T. A. Zikeyev, Candidate in Technical Sciences, Fuel Laboratory, 6½ pp

"Izvest VTI" No 7/8 (135/136)

Describes some of the particulars of the operation of the Molotov Coal Trust. Briefly mentions production figures for the lower level "Slozhnyy," the middle level "Srednly" and the upper level "Moshchnyy." Discusses humidity of coal, ash, and mineral masses, elementary composition, and methods for the conservation of mined Osinnikovskiy brown coal.

38T88

LC



CA

Brown coal of the Kuznetsk Basin. T. A. Zikeev. *Izvest. VTI* (Vsesoyuz. Teplotekh. Inst.) 15, No. 7-8, 1-[illegible] (1946).—Low ash, H_2O, and S content, along with high caloric content, make these coals among the best of their type in the U.S.S.R. Cyrus Feldman

ZIKEYEV, T. A.

LC

38T29

USSR/Engineering Nov 1946
Fuels
Laboratories, Testing

PA 38T29

"Study of Soviet Fuels," T. A. Zikeyev, A. I. Komelin, Candidates in Technical Sciences, 3½ pp

"Izvest VTI" No 11 (137)

Study of the fuels of the Soviet Union is a new field which the Power Engineering Institute has recently entered. Article explains the standards which have been set up for fuels (GOST). Briefly discusses scientists and laboratories involved in the solution of problems connected with the selection and division or classification of tests, and methods for determining

LC

38T29

USSR/Engineering (Contd) Nov 1946

calorific characteristics. Mentions many of the scientists who are involved in solving these problems at present, among them Mikulin, Zikeyev, Zhukovskiy, and others.

38T29

ZIKEYEV, T. A.

USSR/Minerals Dec 1947
Thermal Analysis
Coal

PA 52T71

"Determination of the Loss of Thermal Value of Sub-Moscow Coal in Storage," T. A. Zikeyev, Candidate Tech Sci, V. M. Tret'yakov, Engr, Fuel Lab VTI, 6½ pp

"Ye Ekonomiyu Toplive" No 12

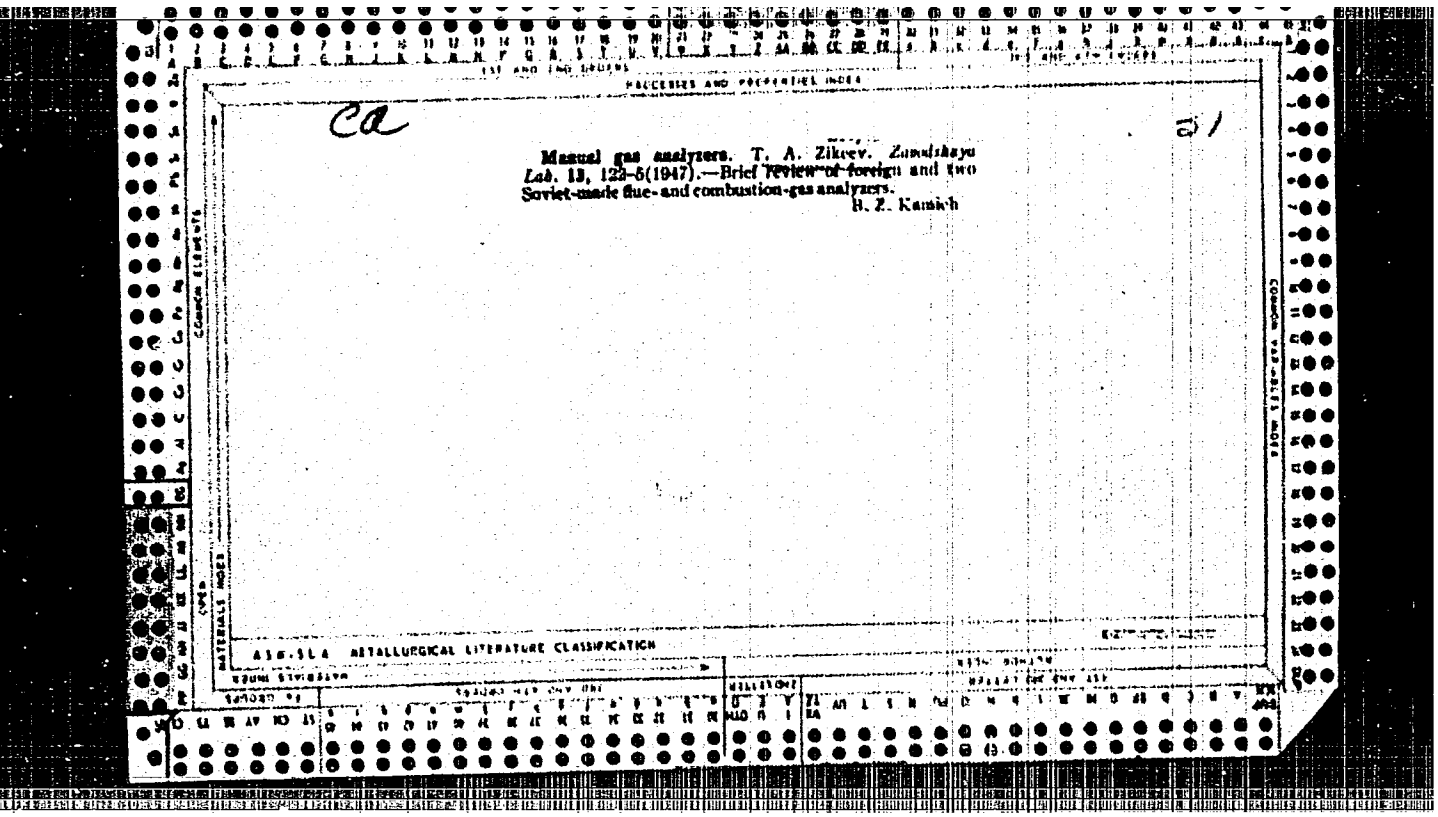
Study of the change of thermal value of sub-Moscow coal during storage in a pile 10.5 meters high. On the basis of the results received, following conclusions were reached: 1) Fresh, ordinary sub-Moscow coal stored in a high pile soon begins self-heating

52T71

USSR/Minerals (Contd) Dec 1947

in summer. 2) Process of self-heating of coal, depending primarily upon the supply of oxygen, takes place throughout entire pile. 3) Average loss of thermal value of coal in conditions approximating ordinary storage for use in 3 to 6 months was 6.5%.

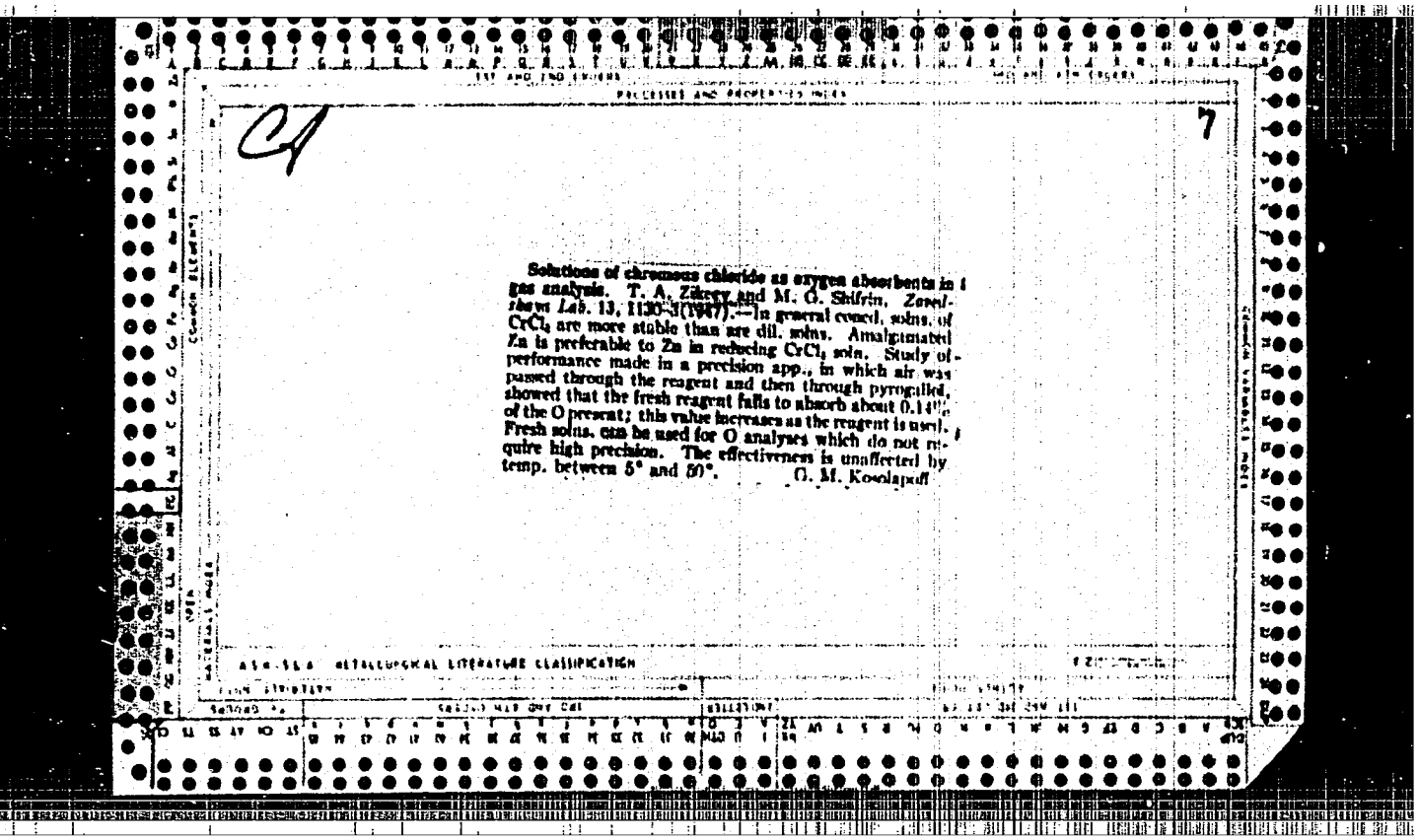
52T71



Ca

51

Manual gas analyzers. T. A. Zikeev. *Zavodskaya Lab.* 13, 123–6(1947).—Brief review of foreign and two Soviet-made flue- and combustion-gas analyzers.
B. Z. Kanich



Solutions of chromous chloride as oxygen absorbents in gas analysis. T. A. Zikeev and M. G. Shifrin, *Zavodskaya Lab.* 13, 1130–3(1947).—In general concn. solns. of $CrCl_2$ are more stable than are dil. solns. Amalgamated Zn is preferable to Zn in reducing $CrCl_3$ solns. Study of performance made in a precision app., in which air was passed through the reagent and then through pyrogallol, showed that the fresh reagent fails to absorb about 0.14% of the O present; this value increases as the reagent is used. Fresh solns. can be used for O analyses which do not require high precision. The effectiveness is unaffected by temp. between 5° and 50°. O. M. Kosolapoff

PA 16T85

ZIKEYEV, T. A.

USSR/Coal Jun 1947
Fuels, Solid

"The Coals of the Shushtulep Lode of the Southern Kuznets Basin," T. A. Zikeyev, 7 pp

"Izvestiya VTI" Vol XVI, No 6

Detailed description of properties of the coals, with tables of chemical composition and graphs. A relationship is established between the value of a series of properties of these coals (W^r, C^g, H^g, Q_b^g, V^g) to the degree of erosion.

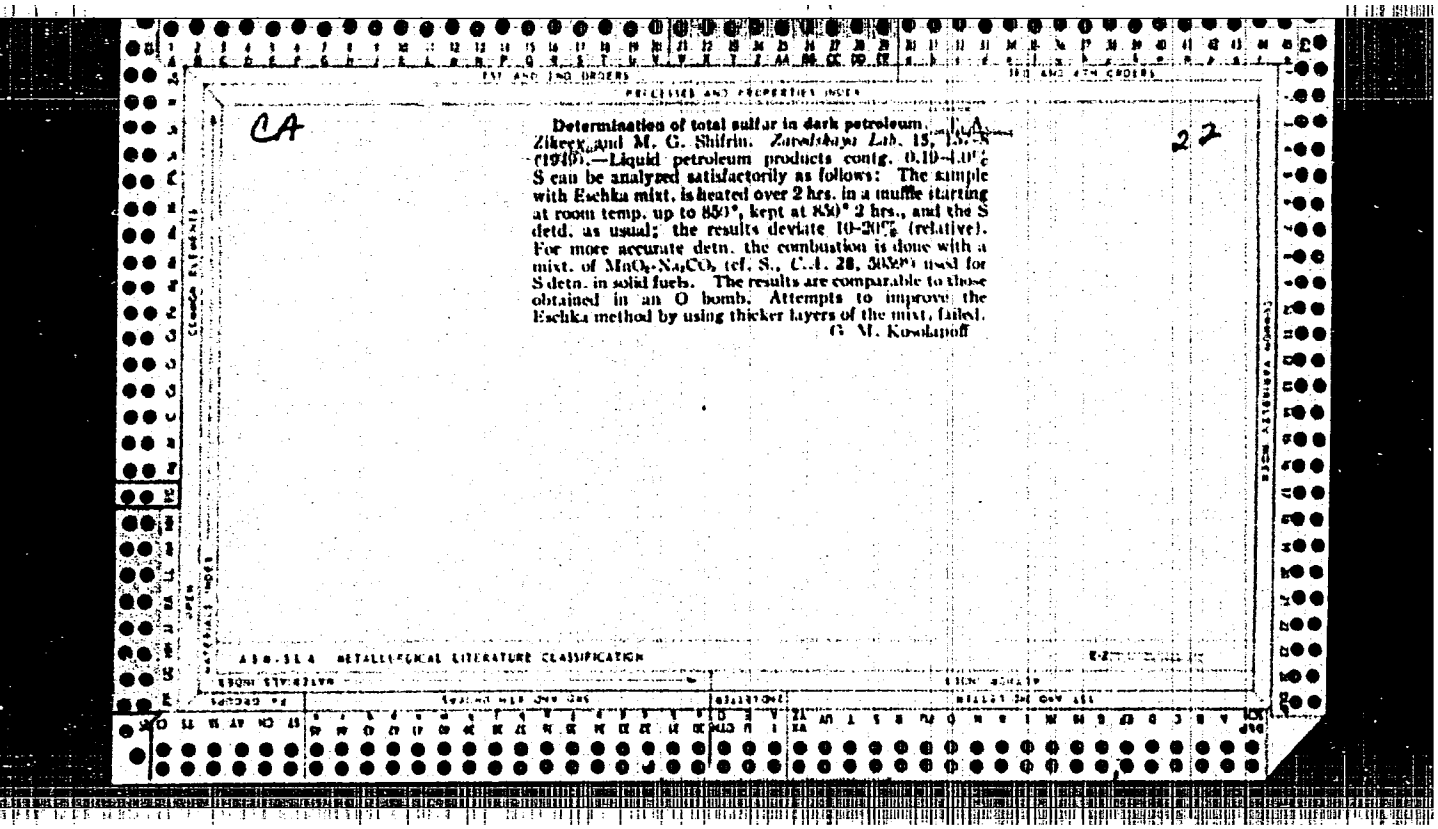
16T85

ZIKEYEV, T. A.

Mor., All-Union Thermotechnical Inst., -c1949-.

"Oxygen Adsorbents Used in Gas Analysis," Dok. AN, 1949;

"Analysis of Power Enterprise Fuels." Moscow, 1948;



CA

22

Determination of total sulfur in dark petroleum. [illegible] Zikeev and M. G. Shifrin. *Zavodskaya Lab.* 15, [illegible] (1949).—Liquid petroleum products contg. 0.10–4.0% S can be analyzed satisfactorily as follows: The sample with Eschka mixt. is heated over 2 hrs. in a muffle starting at room temp. up to 850°, kept at 850° 2 hrs., and the S detd. as usual; the results deviate 10–20% (relative). For more accurate detn. the combustion is done with a mixt. of MnO_2-Na_2CO_3 (cf. S., *C.A.* **28**, 3858[illegible]) used for S detn. in solid fuels. The results are comparable to those obtained in an O bomb. Attempts to improve the Eschka method by using thicker layers of the mixt. failed.

G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZIKEYEV, T. A.

USSR/Fuel - Coal Properties Apr 52

"Classification of Coals Used in Electric Power Industry," V.P. Romadin, Dr Tech Sci, T.A. Zikeyev, Cand Tech Sci

"Iz v-s Teplotekh Inst" No 4, pp 27-29

Suggests a system for classification of coals in respect to their utilization in power production and attempts to distribute within this system coal deposits exploited by Min of Coal Ind. Discusses coal qual characteristics which det type of equipment for stationary power installations.

216T53

ZIKEYEV, T. A.

PA 240T88

USSR/Engineering - Fuels, Analysis Dec 52

"Application of the Accelerated Method for Determination of Carbon and Hydrogen in Solid Fuels," Cand Tech Sci T. A. Zikeyev, M. G. Shifrin, Junior Sci Worker, Fuel Section

Iz V-S Teplotekh Inst, No 12, pp 24-27

Discusses detn of C and H in solid fuels usi g method developed in 1950 by P. N. Fedoseyev and M. M. Pavlenko for accelerated determination of these elements in organic compounds. (Zhur Analit Khimii, No 4, 1950, p 296; No 5, 1951, p 317).

240T88

Method, based on combustion of sample of org substance in direct contact with powdered chromic oxide serving as catalyst of surface burning, was modified in application for analysis of coals and peat showing considerable advantages over with standard method.

240T88

ROMADIN, V. P., ZIKEYEV, T. A.

Coal - Analysis

Classification of U.S.S.R. coals for power generation. Izv. VTI 21 no. 4 (1952)

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

DVUZHIL'NAYA, N.M.; IVANOVA, N.V.; LIFSHITS, M.M.; MINENKO, O.A.; ZIKEYEV, T.A., redaktor; ALADOVA, Y.I., tekhnicheskiy redaktor

[Accelerated method of analyzing coal] Uskorennye metody analiza uglia. Moskva, Ugletekhizdat, 1954. 58 p.
(Coal--Analysis)

(MLRA 8:7)

ZIKEYEV, T.A.

AID P - 1249

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 10/17

Author : Zikeyev, T. A., Kand. of Tech. Sci.

Title : Crushability of coals from the Donets Basin

Periodical : Teploenergetika, 1, 41-44, Ja 1955

Abstract : The relationships are shown between the extent of the crushability of the various coals from the Donets Basin and their ash content, as well as the general regularity in the change of the crushability of all coals from the Donets Basin dependant upon the degree of their metamorphism, expressed in the escape of volatile ingredients. The two factors of ash content and degree of metamorphism can occur separately or sometimes simultaneously. Charts, tables.

Institution : All-Union Heat Technical Institute

Submitted : No date

ZIKEYEV, T. A. Master of Science

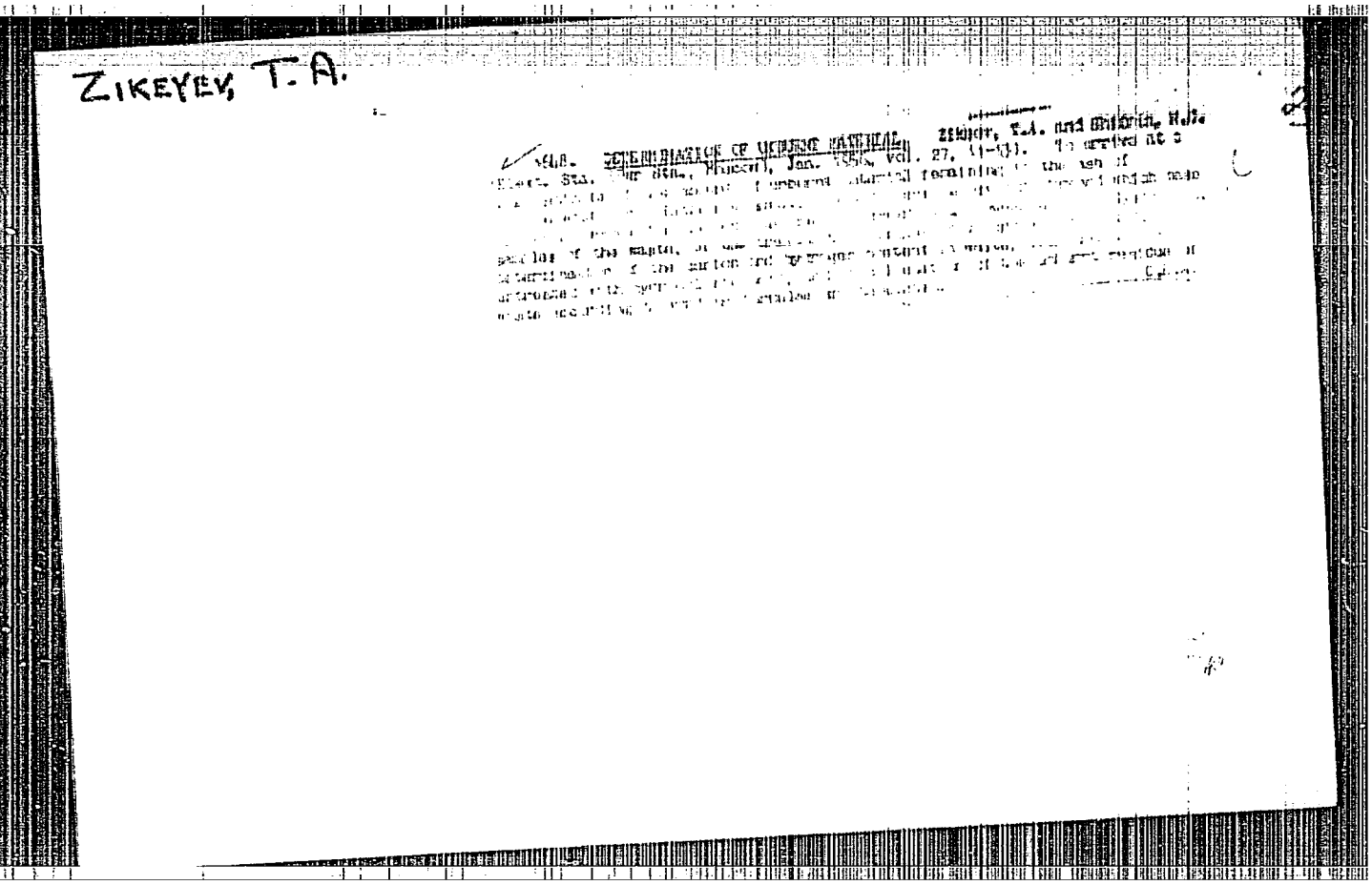
"Fuel Quality Control at the Soviet Union Power Plants," paper presented at the 5th World Power Conference, Vienna, 1956

In Branch #5

ZIKEYEV, T.A.; VOLKOV, I.O.

"Handbook for the analysis of furnace gases." A.V. Vasil'ev. Reviewed by T.A. Zikeev, I.O. Volkov. Zav.lab. 22 no.1:127-128 '56. (MLRA 9:5)

(Gases--Analysis) (Vasil'ev, A.V.)



ZIKEYEV, T.A.

ZIKEYEV, T.A., kand. tekhn. nauk

Materials for the review of the chapter "Fuel" in norms on the thermal design of boiler units and norms on the calculation and design of pulverized coal treating systems. Teploenergetika 11 no.9:79-91 S '64. (MIRA 18:8)

1. Vsesoyuznyy teplotekhnicheskiy institut.

ZIKEYEV, T.A.

Materials for the review of the chapter on "Fuel" in norms for the thermal calculation of boiler units and norms for the calculation and design of pulverized coal systems. (MIRA 18:3)
Teploenergetika 11 no.10:85-91 O '64.

ZIKEYEV, T.A., kand.tekhn.nauk; KAZAKOVA, M.D., inzh.; CHESNOKOVA, L.I., inzh.

Effect of natural moisture of Moscow Basin coal on its friability. Teploenergetika 7 no.10:43-46 O '60. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Moscow Basin—Coal—Testing)

SOV/96-59-3-12/21

AUTHORS: Zikeyev, T.A., Candidate of Technical Sciences and Kleymenova, I.I., Engineer

TITLE: Characteristics of Oxidised Coals From Open-Cast Workings of the Kuznetsk Basin (Kharakteristika okislennykh ugley, dobyvayemykh na razrezakh Kuznetskogo basseyna)

PERIODICAL: Teploenergetika, 1959, Nr 3, pp 55-61 (USSR)

ABSTRACT: Coals mined in the Kuznetsk basin are of high quality. Shallow open-cast deposits in the Kuzbass have undergone considerable oxidation and are of appreciably lower quality than the mined coals and approximate to poor-quality lignite. They have over 40% water content and a calorific value of 6,000 kcal/kg or less. Because of their poor quality they will be primarily used in large pulverised-fuel power stations. As these fuels have hitherto been inadequately studied, the necessary work was undertaken in the All-Union Thermo-Technical Institute. Fuel from ten of the largest open-case workings in the Kuzbass were studied. The method of sampling is described. The degree of oxidation of the

Card 1/4

Characteristics of Oxidised Coals from Open-Cast Workings of the Kuznetsk Basin

coals was assessed in terms of the hygroscopic moisture content; the method of determination is referred to. Variations in the properties of coals according to the depth in the workings from which they are obtained are plotted in Fig.1. Characteristics of one of the coals as function of the hygroscopic water content are given in Fig.2. As individual consumers may receive coal from a number of different workings, it was of interest to see whether the calorific value could be expressed in terms of the hygroscopic moisture content for a number of different coals and this possibility is demonstrated by the results plotted in Fig.3. Graphs of carbon, hydrogen and oxygen contents, again as functions of calorific value for different coals, are plotted in figures 4, 5 and 6. Like the other properties, the volatiles content varies regularly with the degree of oxidation of the coal, as will be seen from Fig.7. Further curves in Fig.8 indicate that the calorific value of the volatiles drops from 10,000 kcal/kg for unoxidised coals to 3,000 kcal/kg for intensively

Characteristics of Oxidised Coals from Open-Cast Workings of the Kuznetsk Basin

oxidised coals. As many of the samples were taken from fuel stacks in which the moisture content might not be typical, a special study was made of the operating moisture content of the coals. The relationship between the maximum moisture content and the hygroscopic water content is plotted in Fig.11 for a number of coals. Information is given about the chemical composition and melting points of the ashes from these coals. Finally, the principal properties of the coals from the different open-cast workings are tabulated. In conclusion, the Kuzbass open-case coals are commended as very promising fuels for power stations because of their cheapness. The properties of the oxidised coals in the surface layers are very different from those of the deeper-mined coals. There is considerable difference between the properties of coals obtained from different open-cast workings. Accordingly it is difficult to obtain average

Characteristics of Oxidised Coals from Open-Cast Workings of the Kuznetsk Basin

coal characteristics: nevertheless, typical figures are offered for the more important characteristics. There are 11 figures, 1 table and 2 Soviet references.

ASSOCIATION: Vsesoyuznyy teplotekhnicheskiy institut (All-Union Thermo-Technical Institute)

ZIKEYEV, Tikhon Alekseyevich; SHMIDT, A.K., otvetstvennyy red.; RYKOV, N.A., red.izd-va; KLADOVA, Ye.I., tekhn.red.

[Handbook on the quality of coals and fuel shales in the Soviet Union] Spravochnik po kachestvu iskopaemykh uglei i goriuchikh slantsev Sovetskogo Soiuza. Moskva, Ugletekhizdat, 1957. 144 p. (MIRA 11:6)

(Coal mines and mining--Handbooks, manuals, etc.)
(Shale--Handbooks, manuals, etc.)

Z, KEYEV, T.A.

ZIKEYEV, T.A., kand. tekhn. nauk.

Readers' response to D.I. IAkovlev's article "New stockpile shapes preventing coal and shale from spontaneous ignition." Ugol' 33 no.2: 42-43 F '58. (MIRA 11:2)

1. Toplivnoye otdeleniye Vsesoyuznogo teplotekhnicheskogo instituta im. F. Dzherzhinskogo.
(Coal mines and mining--Safety maeasures)
(Combustion, Spontaneous)
(IAkovlev, D.I.)

ZIKEYEV, T.A.

ZIKEYEV, T.A., kandidat tekhnicheskikh nauk.

Solid fuel used in Soviet electric power plants. Teploenergetika 4 no.10:84 O '57. (MLRA 10:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Electric power plant) (Fuel)

ZIKEYEV, T.A., kand.tekhn.nauk.

Characteristics of coal of the Kushmurun deposits. Elek.sta. 28 no.9:28-32 S '57. (MIRA 10:11)
(Kushmurun--Coal--Analysis)

RAVICH, Mark Borisovich, prof., doktor tekhn. nauk; DVORIN, Semen Semenovich, inzh.; PEVZNER, Solomon Isaakovich, inzh.; SUSHKIN, I.N., inzh., red.; KNORRE, G.F., doktor tekhn. nauk [deceased], red.; ZIKEYEV, T.A., kand. tekhn. nauk, red.

[Fuel for metallurgical furnaces; a handbook] Metallurgicheskoe toplivo; spravochnik. [By] Ravich M.B. i dr. Moskva, Metallurgiia, 1965. 470 p. (MIRA 18:12)

L 00953-67 EWT(m)/EWP(w)/EWP(t)/ETI IJP(c) JD
ACC NR: AT6026557 SOURCE CODE: UR/2776/66/000/046/0170/0175

AUTHORS: Gulyayev, A. P.; Zikeyev, V. N.; Moshchorinova, O. N.

ORG: none

TITLE: Influence of carbon content on the cold-shortness threshold of structural steel

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 170-175

TOPIC TAGS: alloy, steel, chromium steel, nickel steel, molybdenum steel, metallurgic research

ABSTRACT: The effect of the carbon content on the cold-shortness threshold of chromium-nickel-molybdenum steel was investigated. The specimens were quenched and subsequently annealed in two stages to hardness HRC = 20--25 and HRC = 30--35 respectively. The cold-shortness threshold was determined in terms of the fraction of the brittle component in the fracture of the specimen. The cold-shortness threshold temperature was taken as the temperature at which the fracture contained 10 and 50% of the brittle component respectively. The experimental results are presented in graphs and tables (see Fig. 1). It was found that an increase in the carbon content in Cr-Ni-Mo steel leads to an increase of the cold-shortness threshold. The

Card 1/2

L 09953-67

ACC NR: AT6026557

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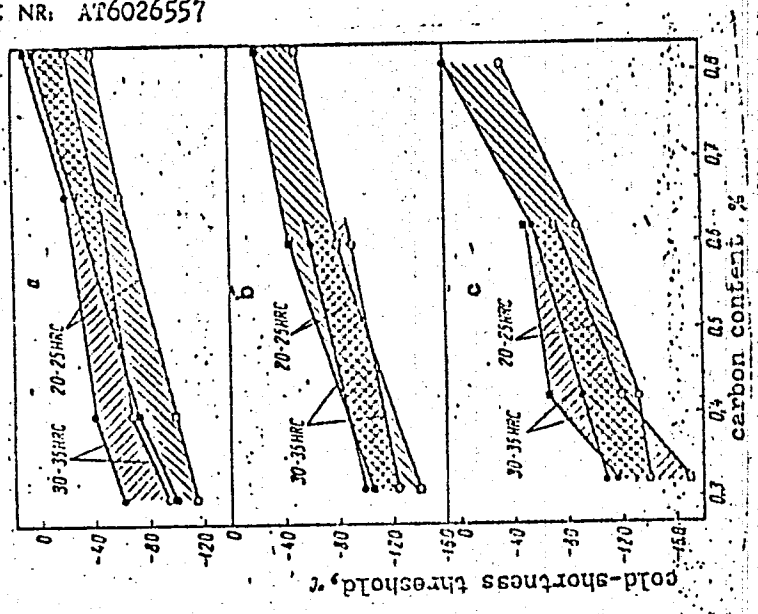


Fig. 1. Influence of carbon on the cold-shortness threshold of steels: a - 30-80Khi; b - 30-80KhNM; c - 30-80KhNZM; solid squares and circles - 10% of brittle component; open squares and circles - 50% of brittle component.

most effective decrease in the cold shortness threshold of improved structural steels is achieved by the addition of 1% Ni. Orig. art. has: 1 table and 3 graphs.

SUB CODE: 11,13/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 002

SOV/137-59-9-20364

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 9, p 203 (USSR)

AUTHORS: Rakhshtadt, A.G., Meshcherinova, O.N., Zikeyev, V.V.

TITLE: Properties and Heat Treatment of Spring Steel Alloyed With Boron

PERIODICAL: V sb.: Sovrem. splavy i ikh term. obrabotka, Moscow, Mashgiz, 1958, pp 132 - 148

ABSTRACT: The authors investigated the effect of B (~ 0.003%) on the properties of 50, 50R, 55S2, 55S2R, U8 and U8R grade steels. The investigations included σ_e, E, the coefficient of internal friction, fitness to tempering, kinetics of isothermical transformation of austenite, changes of mechanical properties in annealing and the microstructure. It was stated that the addition of 0.003% B in 50, 55S2 und U8 steels increased elastic properties of the steels and their relaxation stability. Increased fitness to tempering of 50R steel makes it possible to use it for springs of larger cross section than those of 50 steel. There are 14 bibliographical titles.

I.B.

Card 1/1

ZIKEYEV, V.V.

"Methods in Osteoplasty," Sov. Med., No. 2, 1949.

Prof, Alma-Ata, -c1949-.

ZIKEYEV, N. T.

"Frost in Ofdzhonikidze Kray, Chechen-Ingush ASSR, North Ossetian SSR, and Kabardinian-Balkar ASSR," 1941.

Mbr., Rostov-on-Don Geophysics Observatory, Main Admin. Hydrometeorological Service, 1938-.

"Glaze Frost in Rostov Oblast and Krasnodar Kray," Rostov, 1940;

"Glaze Frost in Stalingrad Oblast and Kalmyk ASSR," Rostov, 1940:

S/196/62/000/010/003/035
E073/E155

AUTHORS: Zikeyev, Ye.N., and Khorunzhiy, V.A.

TITLE: Prospects of development of explosion-proof electrical equipment

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1962, 16, abstract 10 A94. (Vestn. elektroprom-sti, no.12, 1961, 1-4)

TEXT: Institut po proyektirovaniyu i issledovaniyu vzryvobezopasnogo elektricheskogo-oborudovaniya (Institute for Design and Research of Explosion-proof Electric Equipment) has planned development work on the following problems: 'barrier' protection, new methods of protecting electric circuits and electrical insulation, protection against explosions by the use of loose and gas fillers, also contactless and arcless switching, investigation and development of automatic equipment for spaces in which there is danger of explosion. The solutions reached will be applied to explosion-proof motors, transformers, mobile sub-stations and other apparatus, as well as to electric drives

Card 1/2

Prospects of development of ... S/196/62/000/010/003/035
E073/E155

that are protected against explosions.
[Abstractor's note: Complete translation.]

Card 2/2

ZIKEYEV, Ye.N., inzh.; KHORUNZHIY, V.A., inzh.

Conference on explosion-proof electrical equipment. Vest.elektroprom. 33 no.2:77-78 F '62. (MIRA 15:2)
(Electric apparatus and appliances—Safety measures)
(Electric apparatus and appliances)

KHORUNZHIY, V.A.; ZIKEYEV, Ye.N.

Let's organize the mass production of electrical equipment for mines. Vest. elektroprom. 34 no.3:1-3 Mr '63. (MIRA 16:8)

1. Direktor instituta "Gipronisel'elektroshakht" (for Khorunzhiy).
2. Zamestitel' direktora po nauchnoy chasti instituta "Gipronisel'elektroshakht" (for Zikeyev).
(Mines and mineral resources—Electric equipment)

ZIKEYEV, Yo.N., inzh.; KHORUNZHIY, V.A., inzh.

Feature development of explosionproof electric equipment.
Vest. elektroprom. 32 no.12:1-4 D '61. (MIRA 14:12)
(Electric apparatus and appliances)

GLOZMAN, O.S., prof.; ZUKEYEVA, A.I., dots.

Work of the Kazakh Republic Society of Pathologists in 1957.
Arkh.pat. 20 no.12:85-87 '58. (MIRA 12:1)

1. Predsedatel' Respublikanskogo obshchestva patologov Kazakhskoy SSR (for Glozman). 2. Sekretar' Respublikanskogo obshchestva patologov Kazakhskoy SSR (for Zukeyeva).
(KAZKAHSTAN--PATHOLOGICAL SOCIETIES)

RAUSHENBAKH, G.I., kand. med. nauk.; ZIKEYEVA, A.I., dots.

Primary tumor of the spleen. Pediatriia, Moskva 36 no.8:78-79 Ag '58.
(MIRA 12:1)

1. Iz. kafedry detskoy khirurgii (zav. - dots. Ye. D. Cherkasova) i kafedry patologicheskoy anatomii (zav. - prof. P.P. Ochkur) Kazakhskogo meditsinskogo instituta.

(HEMANGIOENDOTHELIOMA, in inf. & child,
spleen (Rus))
(SPLEEN--TUMORS,
hemangioendothelioma in child (Rus))

GLOZMAN, O.S.; GOL'TSOVA, T.G.; ZIKEYEVA, A.I.; LONSHCHAKOVA, A.S.
(Alma-Ata)

Effect of hypothermia on the development of experimental nephrocalcinosis in rats. Arkh.pat. 23 no.4:37-42 '61. (MIRA 14:6)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. O.S. Glozman) i kafedry patologicheskoy anatomii (zav. - prof. P.P. Ochkur) Kazakhskogo meditsinskogo instituta.
(HYPOTHERMIA) (KIDNEYS--DISEASES)
(CALCIUM METABOLISM)

ZIKEYEVA, A.I., dotsent; KHATSKELES, A.Ya.

Causes of death among middle aged and aged subjects. Zdrav. Kazakh. 22 no.3:33-39 '62. (MIRA 15:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. P.P.Ochkur) Kazakhskogo meditsinskogo instituta.
(DEATH--CAUSES) (AGED)

ZIKEYEVA, A.I. (Alma-Alta)

Republic-wide conference on exchange transfusion of blood in Kazakhstan. Pat. fiziol. i eksp. terap. 7 no.2: 91-93 Mr-Ap'63. (MIRA 16:10)

(BLOOD — TRANSFUSION)

GAMOV, V.S.; ZIKEYEVA, A.I.

Malignization of congenital cysts of the lungs and the mediastinum. Grud. khir. 2 no.1:105-108 Ja-F '60. (MIRA 15:3)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. V.S. Gamov) i kafedry patologicheskoy anatomii (zav. - prof. P.P. Ochkur) Kazanskogo meditsinskogo instituta. Adres avtorov: Kalinin, Sovetskaya, 4, Meditsinskiy institut.

(LUNGS—CANCER)
(MEDIASTINUM—CANCER)

GLOZMAN, O.S., prof.; ZIKEYEVA, A.I., dotsent

Second Conference on Problems of Gerontology and Geriatrics. Zdrav. Kazakh. 21 no.2:76-80 '61. (MIRA 14:3)
(GERIATRICS)

ZIKEYEVA, A. I., And SAULEBEKOVA, M. S., Candidate of Medical Sciences

"Substitution of the Blood of the Donor for the Blood of the Recipient as a Therapeutic Method in Mercuric Chloride Poisoning," a report presented at the Firtst Conference of Pathologists of Central Asia and Kazakhstan held in Stalingrad, 12-15 Feb 1955, Ark. Patol., 17, No 3, pp 83-87, 1955

Abstract Sum. 1003, 20 Jul 56

ZIKEYEVA, A.I.

GLOZMAN, O.S., professor; ZIKEYEVA, A.I., dotsent

Work of the Republic Society of Pathologists of the Kazakh S.S.R. in 1955. Arkh. pat., 19 no.3:92-94 '57 (MLRA 10:5)
(KAZAKHSTAN--PATHOLOGY--SOCIETIES)

OCHKUR, P.P., professor; ZIKEYEVA, A.I. dotsent.

Activities of the Republic Scientific Society of Pathoanatomists and Pathophysiologists of Kazakhstan for 1954. P.P. Ochkur, A.I. Zikeeva. Arkh. pat. 17 no.4:87-89 O-D '55. (MLRA 9:2)

(KAZAKHSTAN, PATHOLOGY, SOCIETIES)

ZIKEYEVA, A.I.; KREPKOGORSKAYA, T.A., doktor meditsinskikh nauk; KHATSKELES, A.Ya.

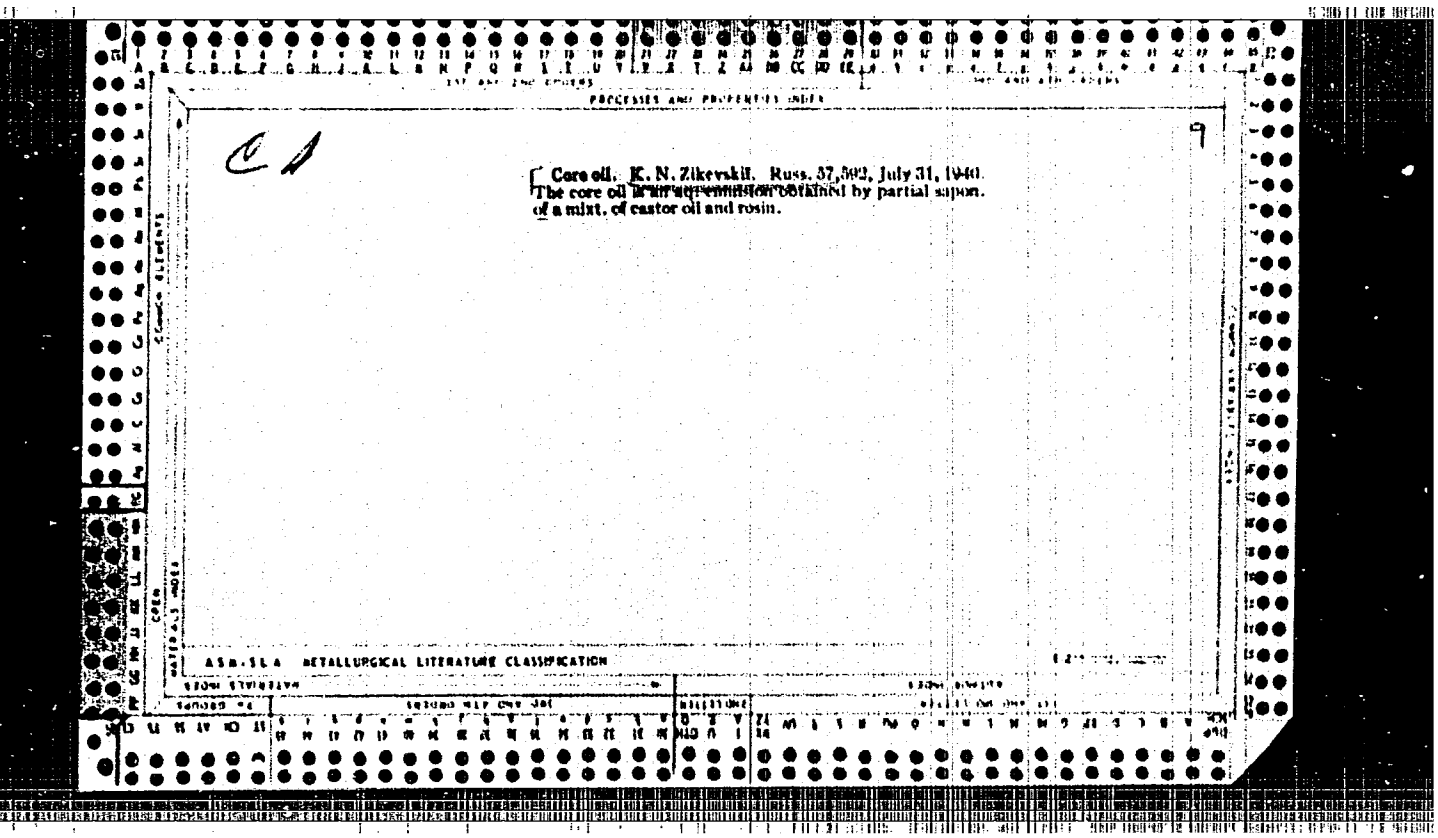
Pathomorphology of experimental leptospiral fever induced by Leptospira of the Kazakhstan type. Vest.AN Kazakh.SSR 17 no.4:29-37 Ap '61. (MIRA 14:5)

(Kazakhstan—Leptospirosis)

ZIKEYEVA, N. S.

ZIKEYEVA, N. S.: "The combined effect of antibiotics on diphtheria bacteria". Khar'kov, 1955. Khar'kov State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.



Core oil. K. N. Zikevskii. Russ. 37,593, July 31, 1940.
The core oil [illegible] obtained by partial saponi-
of a mixt. of castor oil and rosin.

ZIKEYEVA, V.K.

Amount of vitamin C in the blood and urine of patients with chronic angiocholecystitis as related to dietetic therapy and the use of some antibiotics. Vop.pit. 21 no.3:47-52 My-Je '62. (MIRA 15:10)

1. Iz otdeleniya bolezney obmena (zav. - prof. M.N.Yegorov) kliniki lechebnogo pitaniya Instituta pitaniya AMN SSSR, Moskva.
(ASCORBIC ACID) (ANTIBIOTICS) (GALL BLADDER--DISEASES)

ZIKEYEVA, V.K.

Clinical evaluation of the iron level in the serum in chronic hepatitis. Sov. med. 28 no.9:52-57 S '65. (MIRA 18:9)

1. Klinika lechebnogo pitaniya (zav. - prof. I.S.Savoshchenko) Instituta pitaniya (dir. - chlen-korrespondent AMN SSSR prof. A.A.Pokrovskiy) AMN SSSR, Moskva.

PROSTYAKOV, K.M.; LORANSKAYA, T.I.; ZIKEYEVA, V.K.

Study of the velocity of hepatic blood flow by means of I^{131} and its significance in the diagnosis of chronic liver diseases. Med. rad. 9 no.8:37-42 Ag '64. (MIRA 18:4)

Laboratoriya radiozotopnoy diagnostiki (zav. prof. M.N.Fateyeva) Instituta meditsinskoy radiologii AMN SSSR i klinika lechebnogo pitaniya (zav. - prof. I.S.Savoshchenko) Instituta pitaniya AMN SSSR, Moskva.

STEPANYAN-TARAKANOVA, A.M., doktor med.nauk, GOLUBEVA, L.Ya., kand.biol.nauk
ZIKEYEVA, V.K., (Moskva)

Role of the nervous system in the pathogenesis of various forms of obesity and the changes produced by medical diet. [with summary in English]. Probl.endok. i gorm. 4 no.4:52-64 Jl-Ag '58 (MIRA 11:10)

1. Iz otdeleniya bolezney obmena veshchestv (zav. - prof. M.N. Yegorov) kliniki lechebnogo pitaniya (zav. - prof. F.K. Men'shikov) i laboratorii vysshey nervnoy deyatel'nosti (zav. - prof. A.I. Makarychev) Instituta pitaniya AMN SSSR (dir. - chlen-korrespondent AMN prof. O.P. Molchanova).
(OBESITY, etiol. & pathogen.
NS disord., speical diet ther. (Rus))
(NERVOUS SYSTEM, dis.
in obesity, speical diet. ther. (Rus))
(DIETS, in various dis.
obesity caused by NS disord. (Rus))

STEPANYAN-TARAKANOVA, A.M.; GOLUBEVA, L.Ya.; ZIKEYEVA, V.K.; KURTSIN', O.Ya.
TIKHOMIROVA, A.N.; MASLENIKOVA, Ye.M.; SOROKIN, G.Ye.;
ZAKHARYCHEVA, A.A.

Effect of combined therapy on patients with the cerebroendocrine form of obesity. Vop. pit. 18 no. 6:16-24 N-D '59. (MIRA 14:2)

1. Iz Instituta pitaniya AMN SSSR, Moskva.
(CORPULENCE) (GLUTAMATES) (CORTISONE)

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))

ZIKEYEVA, Valentina Konstantinovna; NEYMAN, M.I., red.

[Therapeutic diet in diseases of the liver and bile ducts] Lechebnoe pitanie pri boleznlakh pecheni i zhelchnykh putei. Izd.2., ispr. i dop. Moskva, Meditsina, 1965. 53 p. (MIRA 19:1)

GREKOV, N.A., inzh.; ZAMYATNIN, M.M., kand. tekhn. nauk; ZIKEYEVA, T.F., inzh.; TOMILOV, M.Ye., inzh.; SHUTOV, I.A., inzh.

Effect of temperature on the mechanical properties of soft solders and copper compounds soldered by them. Vest. elektroprom. 34 no.7:59-63 Jl '63. (MIRA 16:8)

L 40157-66 EWT(1) SCTB DD

ACC NR: AP6025929 SOURCE CODE: UR/0301/66/012/004/0418/0424

AUTHOR: Bronovitskaya, Z. G.; Gershenovich, Z. S.; Kolounek, Ya.; Zikh, I.

ORG: Chair of Biochemistry, State University, Rostov-na-Donu (Kafedra biokhimii Gosudarstvennogo universiteta); Institute of Biophysics, Medical School, Karlov University, Prague (Institut biofiziki pri meditsinskom fakul'tete Karlova universiteta)

TITLE: Oxidative phosphorylation of the brain and liver during the action of L-methionine-sulfoximin and increased oxygen pressure

SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 4, 1966, 418-424

TOPIC TAGS: brain metabolism, liver metabolism, combined stress, hyperoxia, phosphorus metabolism, oxidative phosphorylation, LIVER, RAT, BIOLOGIC RESPIRATION, BRAIN, BIOLOGIC METABOLISM, PHOSPHATE, OXYGEN

ABSTRACT: L-methionine-sulfoximin (MSI) alters the content of adenylic components in the liver of rats. Six hr after MSI injection, the ADP and ATP content increases (30%), oxidative phosphorylation increases, and respiration is unaltered. Twelve hr after MSI injection there is an increase in the total content of adenylic system components. MSI does not alter the intensity of brain metabolism but depresses esterification of inorganic phosphates (34%). Exposure to oxygen under pressure (4 atm) for an hour increases both respiratory intensity and brain phosphorylation. MSI and increased oxygen pressure together caused an activation of brain phosphoryla-

Card 1/2 UDC: 616.831+616.361-008.921.8-02:[615.777.818+612.274

L 40157-66

ACC NR: AP6025929

tion compared to the action of MSI alone. The sensitivity of animals injected with MSI to increased oxygen pressure is elevated compared to controls. Apparently, one reason for this is altered phosphorus metabolism. It was concluded that despite the ability of increased oxygen pressure and MSI to precipitate convulsive attacks, their mechanism of action on the phosphorus metabolism of individual tissues differs. [CD]
Orig. art. has: 4 tables.

SUB CODE: 06/ SUBM DATE: 10Feb65/ ORIG REF: 010/ OTH REF: 005/ ATD PRESS: 5049

Card 2/2 MLP

L 05257-67 ARG/EEC(k)-2/EWP(c)/EWP(h)/EWT(d)/FBO/FSS-2 IJP(c) UR/

ACC NR: AM6018825 Monograph

93
B+1

Zikhanov, Konstantin Ivanovich; Strelkov, Viktor Grigor'yevich

Remote control of rockets (Teleupravleniye raket) Moscow, Voyenizdat M-va obor. SSSR, 1966. 110 p. illus. 13,000 copies printed. Series note: za voyenno-tekhnicheskiye znaniya

TOPIC TAGS: guided missile engineering, missile guidance equipment, missile guidance, radio guidance, active missile guidance, guidance communication, guidance system, command guidance system, antimissile missile, missile control

PURPOSE AND COVERAGE: This booklet is intended for enlisted men in the military services, cadets in military schools, and for wide circle of readers interested in problems of missile engineering. It may also be used by officers in the missile forces as a guide for preparing the training program for their units. The principles of building remote control guidance systems, the elements of these systems, and their interaction are presented. Problems which may be solved by means of remote control systems are also covered. Basic methods of missile target guidance using remote control systems are explained as well as methods of making the necessary commands and transmitting them to the missiles. Much of the material is based on foreign open sources and the Nike-Zeus and Nike-X antimissile missile systems are described.

UDC: 623.451.8-519

Card 1/2

L 05257-67

ACC NR: AM6018825

TABLE OF CONTENTS:

SUB CODE: 09/ SUBM DATE: 02Nov65/

Card 2/2

ZIKHERMAN, I., inzhener; FRIDLYAND, A., kandidat tekhnicheskikh nauk.

Valuable tanning material made of leather wastes. Prom.koop. no.11: 29-30 N '55. (MLRA 9:5)

(Tanning)

ZIKHERMAN, K.Kh., uchitel' khimii

Preparation of stable forms of sodium and potassium. Khim. v shkole 14 no.5:78-79 S-O '59. (MIRA 12:12)

1. Rakityanskaya srednyaya shkola Belgorodskoy oblasti.
(Sodium) (Potassium)

SHOSTAKOVSKIY, M.F.; KUZNETSOV, N.V.; DUBOVIK, N.A.; ZIKHERMAN, K.Kh.

Synthesis of ethoxyacetalaldehyde and its chemical transformations. Izv. AN SSSR. Otd.khim.nauk no.8:1495-1500 Ag '61. (MIRA 14:8)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Acetaldehyde)

ZIKHERMAN, Kh.Ya., kandidat sel'skokhozyaystvennykh nauk; SAMOKHINA, E.F., kandidat sel'skokhozyaystvennykh nauk.

Obtaining soil specimens with indisturbed structure with a Nekrasov sampler. Dokl.Akad.sel'khoz. 22 no.1:29-30 '57. (MLRA 10:2)

1. Yaroslavskaya gosudarstvennaya selektsionnaya stantsiya. Predstavlena akademikom I.I.Samoylovym.
(Soil--Analysis)

ZIKHERMAN, Kh Ya.

Zikherman, Kh. Ya. - "Fundamental principles of the grass rotation system of agriculture," Yestestvoznaniye v shkole, 1949, No. 1, p. 19-28

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

ZIKHERMAN, K.Kh.; KALABINA, A.V.

Synthesis of some polychloroethyl ethers of phenol and chlorophenols. Izv. AN SSSR. Ser. khim. no.7:1254-1256 '65. (MIRA 18:7)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

USSR / Human and Animal Morphology (Normal and Pathological). Digestive System. S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16880

Author : Zikherman, S. Z.
Inst : Not given
Title : On Morphology of Root Pulp of the Tooth

Orig Pub : Stomatologiya, 1958, No 3, 60

Abstract : It was shown on 520 roots of 378 permanent teeth removed from 43 fresh human cadavers in the 8-72 year age group that the pulp (P) of a typical structure is found only in the pulp chamber. In the root canal, P is found only in the form of a narrow layer along the periphery. The remaining central part of root P consists of bundles of coarsely-fibrous connective tissue, which

Card 1/2

NAJDANOVIC, Nikola, inz., prof. (Prote Mateje 61, Beograd); ZIKIC, Todor, inz. (Beograd)

Reinforcement of the foundations of the buildings on which additional stories will be built. Tehnika Jug 18 no.11:Suppl Radioizotopi zrac 2 no.11:2027-2028a N '63.

1. Rudarsko-geoloski fakultet Univerziteta u Beogradu (for Najdanovic).

SIKIN, A. I.

"Worker's Rational 'Seat'", a paper submitted at the 12th International Congress on Occupational Health, Helsinki, 1-6 Jul 57.

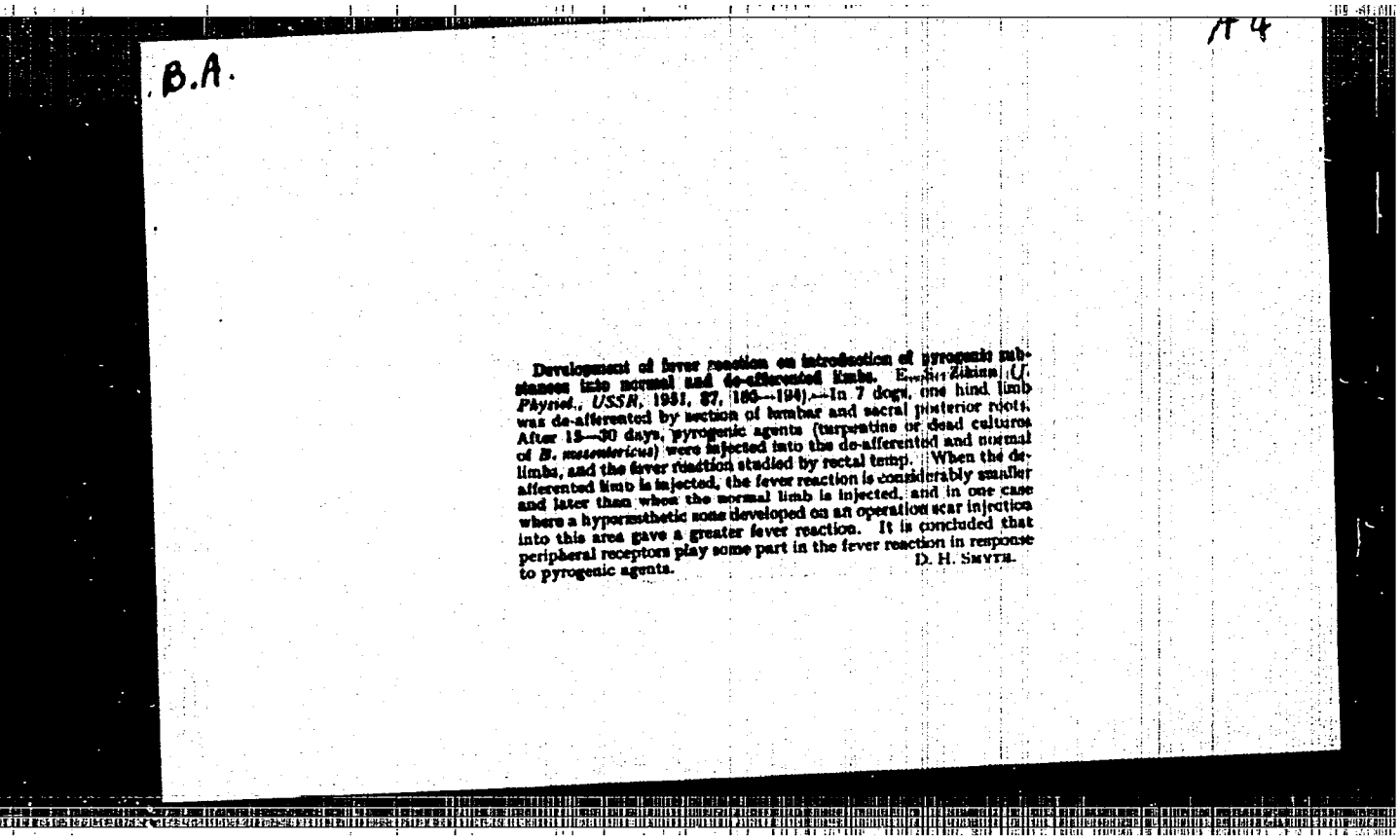
ZIKIN, A.N.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1584
AUTHOR KOJKOV,S.N., ZIKIN,A.N.
TITLE The Electric Resistance of Thin Layers of Aluminium Oxide.
PERIODICAL Žurn.techn.fis,26,fasc.10, 2248-2253 (1956)
Issued: 11 / 1956

The samples were investigated in the vacuum within the temperature interval of from 300 to 2000° K by means of parallel current.
Investigation method and apparatus: The aluminium-oxide powder which was mixed with an organic binding agent was applied either on to a tungsten wire of 100 micron thickness or on to a molybdenum band of 1 mm width and 30 micron thickness. The sample was introduced into a piston with 10^{-4} to 10^{-5} torr and thermal treatment (annealing) is described. In these tests the core always served as an electrode, the other electrode was of metal. During annealing the electrodes were closely connected with the surface of the aluminium oxide layer. The average value obtained on the basis of from 10 to 200 measurements was in all cases taken as breakdown voltage.
Measuring results: The dependence of breakdown voltage on polarity is obviously due to the insufficient contact of the outer electrode with the surface of the aluminium oxide layer. The electrodes, which were fixed to the samples before annealing, have sufficiently close contact after heat treatment, which, however, can again be destroyed by sharp changes of temperature in the course of measuring. In electrodes with sufficiently close contact breakdown voltage

in the temperature domain of from 300 to 1500° K increases nearly proportionally to the thickness of the layer. At higher temperatures this dependence is linear but not directly proportional. In the case of a not close contact breakdown voltage within the entire temperature range of from 300 to 2000° K is not proportional to the thickness of the layer. The breakdown voltage of an aluminium oxide layer at close contact of the outer electrode with the surface layer is nearly equal to the breakdown voltage of layers of air of corresponding thickness. At 1500° K breakdown voltage does not depend on the degree of the vacuum in the pressure interval of from 10^{-4} to 10^{-6} torr. These and other facts indicate the existence of pores in the layers of aluminium oxide. The pores pass right through and comprise up to 30% of the entire volume of the layer. The temperature dependence of breakdown voltage, namely $\lg U_D = f(1/T)$ can be represented in form of a broken straight line. In all samples the break is to be found at a temperature of the order of from 1300 to 1400° K. Below 1300° K breakdown voltage depends only little on temperature.
There follows a discussion of results.

INSTITUTION: LPI (= Leningrad Pedagogical Institute) Leningrad.



B.A.

IT 4

Development of fever reaction on introduction of pyrogenic substances into normal and de-afferented limbs. E. [illegible] Zikina (*J. Physiol., USSR*, 1931, 87, 185—194).—In 7 dogs, one hind limb was de-afferented by section of lumbar and sacral posterior roots. After 15—30 days, pyrogenic agents (turpentine or dead cultures of *B. mesentericus*) were injected into the de-afferented and normal limbs, and the fever reaction studied by rectal temp. When the de-afferented limb is injected, the fever reaction is considerably smaller and later than when the normal limb is injected, and in one case where a hyperæsthetic zone developed on an operation scar injection into this area gave a greater fever reaction. It is concluded that peripheral receptors play some part in the fever reaction in response to pyrogenic agents.

D. H. Smyth.

ZIKIYEV, V.V.

PHASE I BOOK EXPLOITATION SOV/1558

Moscow. Dom nauchno-tekhnicheskoy propagandy im. F.E. Dzerzhinskogo

Sovremennyye splavy i ikh termicheskaya obrabotka (Contemporary Alloys and Their Heat Treatment) Moscow, Mashgiz, 1958. 329 p. 12,000 copies printed.

Additional Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Ed. (Title page): Yu. A. Geller, Doctor of Technical Sciences; Ed. (Inside book): V.V. Zuborinskiy, Engineer; Tech. Ed.: B.I. Model'; Managing Ed. for Literature on Metal Working and Tool Making: R.D. Beyzel'man, Engineer.

PURPOSE: The book is intended for engineering and technical personnel of heat-treatment shops and test laboratories of machine-building plants.

COVERAGE: This collection of 28 articles, compiled by 33 authors, aims to acquaint the reader with modern practice in the heat treatment of steels. The authors are primarily concerned with the development of various types of structural, tool, and heat-resistant steels and with the use of their alloying elements. Materials-handling equipment is described at some length. The treatment of alloys, particularly those of titanium, also comes within the scope of the collection. The book is thoroughly diagrammed, and a good deal of the material is shown in graphical form. Among the problems dealt with are the minimization of deformations, the introduction of the automatic control of heat-treating equipment, together with fully mechanized tool manufacture, and the optimum proportions of different alloying elements. There are numerous tables and drawings. Bibliographic listings placed at the end of chapters are predominantly Soviet. The articles comprising this collection are reports delivered at a conference held in the Scientific and Technical Propaganda House imeni F.E. Dzerzhinskiy in Moscow.

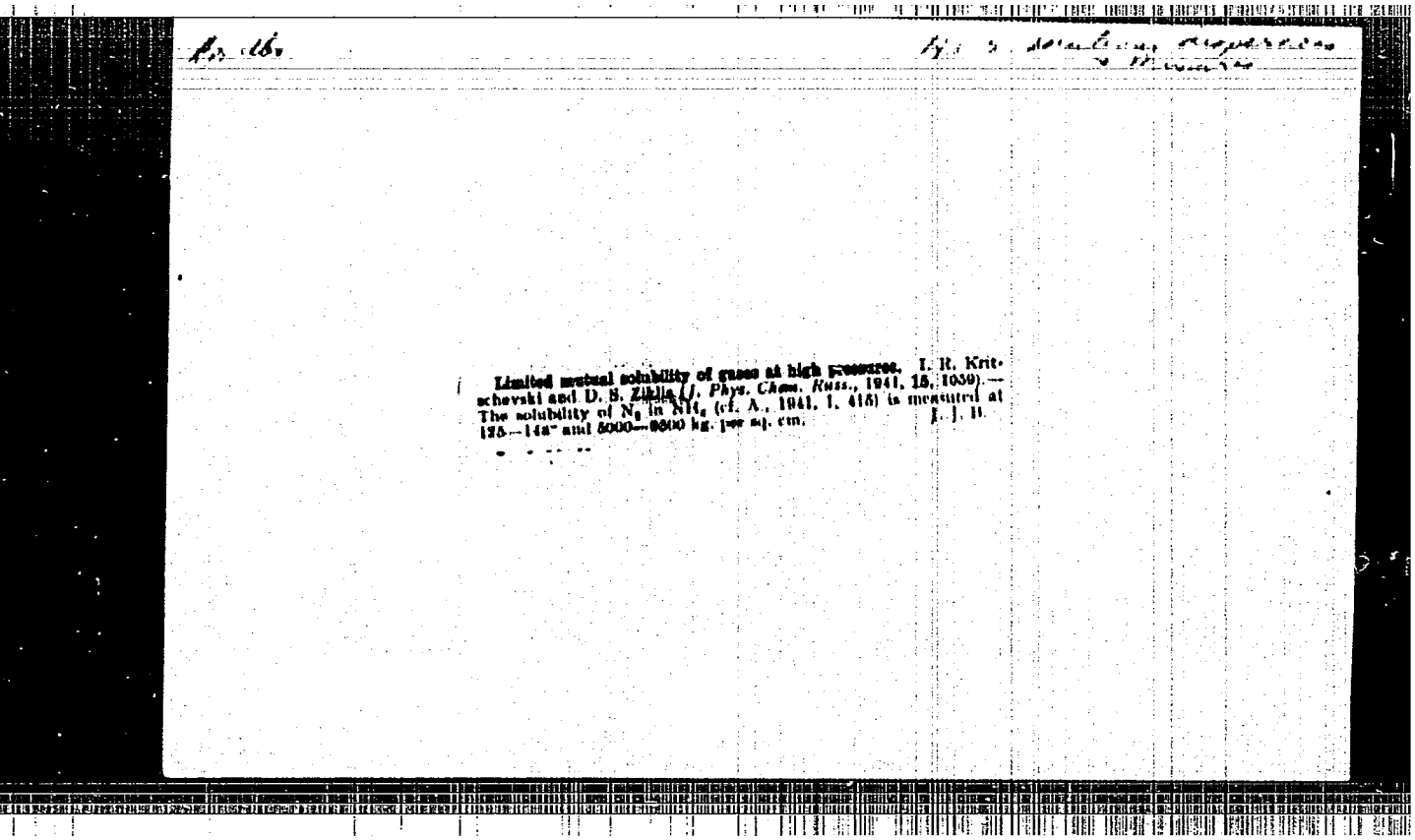
Contemporary Alloys and Their Heat Treatment SOV/1558

Card 2/6

ZIKKER, V.

Scientists have developed, practical workers have supplemented.
NTO 3 no.3:47 Mr '61. (MIRA 14:3)

1. Uchenyy sekretar' Dorozhnogo nauchno-issledovatel'skogo obshchestva moskovskikh stroiteley zheleznodorozhnogo transporta.
(Railroads—Electrification)



Limited mutual solubility of gases at high pressures. I. R. Krit-schevski and D. S. Zikla (*J. Phys. Chem. Russ.*, 1941, 15, 1059).—The solubility of N_2 in NH_3 (cf. A., 1941, I, 416) is measured at 125—145° and 5000—9800 kg. per sq. cm. J. J. H.

1. ZIKMANE, V.

2. USSR (600)

4. Infection

7. Experimental investigations of a mixed infection by Mycobacterium tuberculosis and Staphylococcus aureus haemolyticus. Latv. PSR Zin Akad Vestis No. 6 1951

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZIKMAN, V. Ya.

"Investigation of the Importance of Mixed Infection in the Pathogenesis of Tuberculosis." Cand Med Sci, Inst of Experimental Medicine, Riga, 1953. (RZhBiol, No 6, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)