

RIVKIN, A.I.; KHITRUK, M.S.; PROKOPOVICH, A.Ye., red.; SHEMSHURINA, Ye.A.,  
red.izdatel'stva; MATVEYEVA, Ye.N., tekhn.red.

[Modernization of interior grinding machines; practical instructions]  
Modernizatsii vnutrishihoval'nykh stankov; rukovodiashchie  
materialy. Pod red. A.E.Prokopovicha. Moskva, Gos.nauchno-tekhn.  
izd-vo mashinostroit. lit-ry. 1957. 51 p. (MIRA 10:12)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut  
metallorezhushchikh stankov.  
(Grinding machines)

REWIN, A. I.

Grinding and Polishing

Grinding with cooling fluid passing through grinding wheel. Stan. i instr., 23, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952~~1953~~, Uncl.

RIVLIN, A. J.

Electrochemical grinding of P/B alloy. Stand. Instr. 35 no. 3:24-  
25 (1962). (MIR: 17:27)

ACC NR: AR6035109

SOURCE CODE: UR/0137/66/000/008/E026/E026

AUTHOR: Pesenson, A. Ye.; Rivkin, A. L.; Steykunas, R. I.; Chistyakov, A. I.

TITLE: Low-current welding rectifier

SOURCE: Ref. zh. Metallurgiya, Abs. 8E165

REF SOURCE: Sb. Svarochn. vypryamiteli. Vil'nyus, 1965, 121-126

TOPIC TAGS: welding electrode, welding equipment, rectifier, welding rectifier /VSKG-30 welding rectifier

ABSTRACT: A description is given of the VSKG-30 low amperage welding rectifier, which was developed and produced at the All-Union Scientific Research Institute of Electric Welding Equipment (UNIIESO) together with the Vilnius Branch. It is intended for use in welding of thin-walled parts in an Ar or He medium with a tungsten electrode. The rectifier consists of a step-down transformer, a saturation choke coil with an attachment for welding a crater and controlling the welding current, an oscillator for arc excitation, an Si-rectifying unit, and start-controlling, measuring, and protecting units. With a 30% duty cycle the rectifier is designed for

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UDC: 621.791.75.037

ACC NR: AR6035109

welding currents up to 30 amp with control limits of 1—32 amp; the time for welding a crater can be set within 1—6 sec. Orig. art. has: 3 figures. R. Sychev. [Translation of abstract] [NT]

SUB CODE: 13/

Card 2/2

REMPER', A.M.; SUKHOV, P.V.; KOPEYKIN, A.A., glavnyy red.; ROKHVARGER, Ye. L.,  
zamestitel' glavnogo red.; VASYUTINSKAYA, A.A., red.; GARTSMAN, B.M.,  
red.; ZAYONTS, R.M., red.; LUNDINA, M.G., red.; NOSOVA, Z.A., red.;  
PETROV, N.A., red.; RIVKIN, A.M., red.; ROMANOV, P.R., red.;  
SOKOLOV, P.V., red.; FEYN, Yu.E., red.; KOSYAKINA, Z.K., red.;  
KASIMOV, D.Ya., tekhn.red.

[Research on clay materials] Issledovanie glinistogo syr'ia. Moskva,  
Gosstroizdat, 1963. 119 p. (Kuchino. Gosudarstvennyi nauchno-  
issledovatel'skii institut stroitel'noi keramiki. Trudy, no.22).  
(MIRA 17:3)

RIVKIN, A.S., inzh.

Recirculation of the drying agent of a coal dust system.  
Energetik 10 no.1831-32 Ja '62. (MIRA 14:12)  
(Electric power plants)  
(Coal, Pulverized)

SEGAL, Bentsion Izrailevich; SEMENDYAYEV, Konstantin Adol'fovich;  
RIVKIN, A.Z., red.; YERMAKOV, Ye.A., tekhn. red.

[Five-place mathematical tables]Piatiznachnye matematicheskie  
tablitsy. Izd.3. Moskva, Fizmatgiz, 1962. 463 p.

(MIRA 15:12)

(Mathematics--Tables, etc.)



GAVRILOV, A.A., inzh.; GRINBERG, G.S., inzh.; KIREYEV, M.I., inzh.  
RIVKIN, A.Ya., inzh.

Distribution boards and units for tension up to 380 v. made of  
standard blocks. Prom.energ. 12 no.8:28-31 Ag '57. (MIRA 10:10)  
(Electric apparatus and appliances)  
(Electric switchgear)

RIVKIN, B.

"Nauchnye zapiski" of the Leningrad Institute of Finance and  
Economics. Fin.SSSR 16 no.10:83-87 0 '55. (MLRA 9:2)  
(Finance--Periodicals)

История полковника Героя Советского Союза, Военный летчик першого  
класса

Суденко гет winged. 1. i kom. 27 no. 196-86 31 192.  
(MIRA 1917)

RIVKIN, E.

V.I. Lenin and the nationalization of banks in the U.S.S.R.  
Den.1 kred. 15 no.6:16-24 Je '57. (MIRA 10:7)  
(Lenin, Vladimir Il'ich, 1870-1924) (Banks and banking)

RIVKIN, B., prof.

Financial control in the building of communism. Fin. SSR.  
23 no.1:19-29 Ja '62. (MIRA 15:2)  
(Finance)  
(Auditing)

RIVKIN, B.

"The organization of collective farm finances". Fin.SSSR 16  
no.12:73-82 D '55. (MLRA 9:2)  
(Russia--Finance--History)

RIVKIN, B.

Finance and credit during the period of the Great October Revolution Moskva,  
Gosfinizdat, 1939. 149 p.

Yudin HJ1207.R5

RIVKIN, B., doktor ekon.nauk

V.I.Lenin and Soviet finance. Fin.SSSR 21 no.4:5-18  
Ap '60. (MIRA 13:4)  
(Lenin, Vladimir Il'ich, 1870-1924)  
(Finance)



RIVKIN, B.

"Outline history of pre-revolutionary Russian finance." A. Pogrebinskii, Reviewed by B. Rivkin. Den. i kred. 13 no. 1:52-57 Ja '55. (MLRA 8:2)  
(Pogrebinskii, A.P.)(Finance--History)

LYUBIMOV, N.N., prof.; ALLAKHVERDYAN, D.A., dotsent; STAM, V.M., dotsent;  
GOL'DENBERG, A.M., dotsent; VINOKUR, R.D., dotsent; AZARKH, M.R.,  
dotsent; SHEER, I.D., prof.; RIVKIN, B.B., dotsent; ABROSKIN, A.A.,  
dotsent; DYMSHITS, I.A., dotsent [deceased]; KON'SHIN, F.V., prof.;  
IPATOV, P.F., dotsent; NIKOL'SKIY, P.S., kand.ekon.nauk; ROSHCINA, L.,  
red.; TELEGINA, T., tekhn.red.

[Finance in the U.S.S.R.; a collection] Finansy SSSR. Avtorskii  
kollektiv pod rukovodstvom D.A.Allakhverdiana i N.N.Liubimova.  
Moskva, Gosfinizdat, 1958. 391 p. (MIRA 12:4)

1. Moskovskiy finansovyy institut (for all except Roshchina, Telegina).  
(Finance)

RIVKIN, E. PATEFIALNAYA  
25328

Otvetstvennostb Voennosluzhashchkh  
Za Sokhrannostb Voennogo  
Imushchestva. Tyl I Snabzhenie  
Vooruzh. Sil, 1948, No. 7, S. 15-22

SO: LETOPIS NO. 30, 1948



AKOPYAN, G.; RIVKIN, B.

Visual aids on economic disciplines. Vop. ekon. no.10:136-140  
0 '61. (MIRA 14:10)

(Economics—Audio-visual aids)

PETROV, I.P., inzh.; RIVKIN, G., inzh.

Drilling rods made of pipes. Bezop.truda. v prom. 4 no.6:24 Je '60.  
(MIRA 14:3)

(Boring machinery)

RIVKIN, G. A.

On 31 May 1946, at the Power Engineering Institute imeni Molotov, defended his dissertation on "The Problems of the Operating Conditions of Rectifiers for the Electrolysis of Aluminum". Official opponents - Doctor of Technical Sciences Professor I. L. Kaganov, and Candidate of Technical Sciences Docent M. G. Chilikin.

So: Elektrichestvo, No 4, April 1947, pp 90-94 ( U-5577, 18 February 1954 )

Formulas were presented for determining the electrical quantities characterizing the operation of rectifiers under various operating conditions. A graphic method was worked out for determining the electrical quantities under various operating conditions, and computation charts were made up. Basic relationships and curves were given for determining the content of higher harmonics in the primary circuit and on the side of the current rectifier, as well as basic relationships for evaluating the effect of higher harmonics on the generators of the supply station, on asynchronous motors included in the circuit, and on the contact line. Formulas were presented and vector diagrams worked out for equivalent multi-phase operation. Recommendations were made for the selection of a minimum number of phases for various supply and operating conditions. The permissible depth of circuit regulation, the permissible power factors, and the value of the cathode choke for reducing the compensating current among machines were determined. The method was illustrated by examples of calculations.

СВЕТЫ, Г.А.

11710 СВЕТЫ, Г.А. Sovetskoye statno-vypryamitel'ye ustroystvo.  
Zhurnal "Elektricheskoye Mashinostroyeniye". Otdel'noye izdaniye po ekonomii elektrotekhnologii. (Okt. 1947 G.) VYP. I.M., 1529, S. 78-93.

NO: Iets is "Elektricheskoye Mashinostroyeniye", No. 29, Moskva, 1949



REVKIN, G. A.

"Construction of Circle Diagrams for Regulation of Ionic Converters,"

Elektrichestvo, No. 9, 1949.

Cand. Technical Sci. Lecturer, Moscow Energetics Inst. V.M. Molotov, -c1949-.

RIVKIN, G. A.

"Problems of Planning Rectifier Substations and Types of Designs for Single-Anode Rectifiers," reported in the article "First All-Union Scientific and Technical Session on Mercury-Arc Rectifiers," Elektrichestvo, No. 11, 1949.

Candidate of Technical Sciences, of Tsentroelektromontazh.

Abstract W-9395, 10 Apr 1950

KIVAIN, G. A.

Preobrazovatelnye Ustanovki Bolshoi Moschnosti (High Power Transformer Installations), 255 p., Moscow and Leningrad, 1951.

RIVKIN, G.A., kand. tekhn. nauk, dotsent

Semigraphical design of a series-and-series-parallel inverter.  
Trudy MEI 55:35-44 '65. (MIRA 18:10)

RIVKIN, G.I., Izv. tekhnichesk, dozent; SHAVCHENKO, G.I., Izv. tekhnichesk, dozent

Study of autonomous inverters using locus diagrams. Elektricheskoe no. 11:77-78 N 164. (MIRA 18:2)

I. Moskovskiy energeticheskiy Institut.

AVINOVITSKIY, I.Ya.; ALEKSEYEV, S.V.; BARANOV, B.M.; GEL'MAN, R.Ye.;  
DVOSKIN, L.I.; DOLGINOV, A.I.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.;  
KAMENEVA, V.V.; KLIMIKSEYEV, V.M.; KHYAZEVSIIY, S.A.; KUZNETSOV,  
P.V.; RIVKIN, G.A.; FEDOROV, A.A.; SERBINOVSKIY, G.V., red.;  
BOL'SHAM, Ya.M., red.; BRANDENBURGSKAYA, E.Ya., red.; VORONIN,  
K.P., tekhn. red.

[Manual for power engineers of industrial enterprises in four  
volumes] Spravochnik energetika promyshlennykh predpriatii v  
chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.1. [Electric power  
supply] Elektrosnabzhenie. Pod obshchei red. A.A.Fedorova, G.V.  
Serbinovskogo i I.A.M.Bol'shama. 1961. 840 p. (MIRA 15:6)  
(Electric engineering)

RIVKIN, Grigoriy Abramovich; ANTIK, I.V., red.; VORONIN, K.P., tekhn.red.

[Transformer units of great power] Preobrazovatel'nye ustanovki  
bol'shoi moshchnosti. Izd.2., perer. i dop. Moskva, Gos.energ.  
izd-vo, 1959. 431 p. (MIRA 12:12)  
(Electric transformers)

ANDRIANOV, Aleksandr Alekseyevich; POTEMKIN, S.V., glavnyy red.;  
MATSUYEV, L.P., zamestitel' glavnogo red.; SHAKHNAROVICH, L.A.,  
red.; BEREZIN, V.P., red.; VESELOV, V.V., red.; GOLANDSKIY, D.B.,  
red.; GOL'DTMAN, V.G., red.; IGNATENKO, M.A., red.; SHASHURA, M.V.,  
red.; RIVKIN, G.M., red.; FIRSOV, L.V., red.; SHEPELEV, I.T.

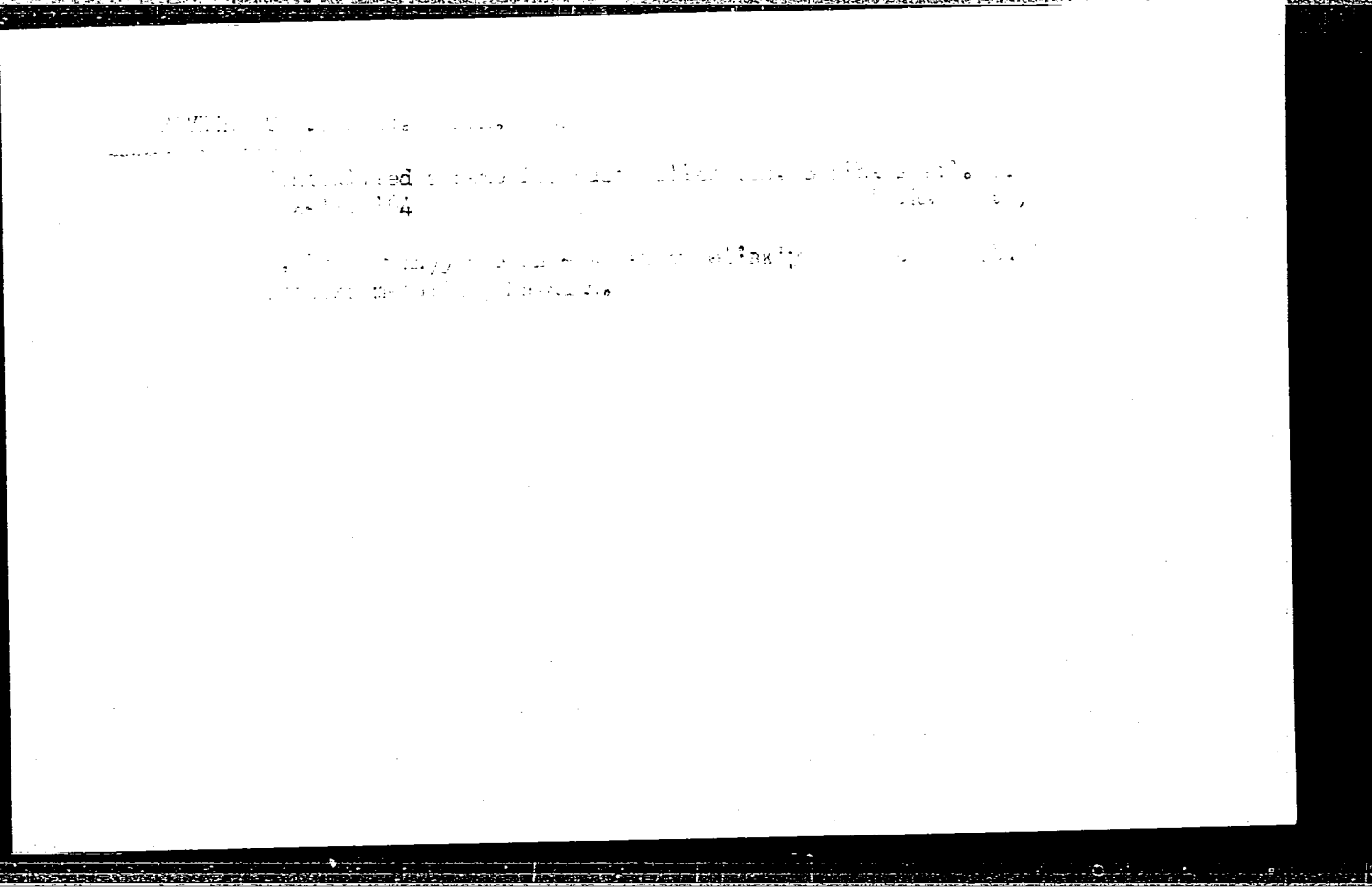
[Methods of analytic decomposition of cassiterite and tin ores]  
Metody analiticheskogo razlozhenia kassiterita i rud olova.  
Magadan, 1962. 14 p. (Magadan. Vsesoiuznyi nauchno-issledo-  
vatel'skii institut zolota i redkikh metallov. Trudy Obogashchenie  
i metallurgii, no.53). (MIRA 16:7)  
(Cassiterite--Analysis) (Tin ores--Analysis)



RED'KIN, V.K.; POTEKIN, S.V., glavnyy red.; MATSUYEV, L.P., zamesti-  
tel' glavnogo red.; SHAKHAROVICH, L.A., red.; BEREZIN, V.P.,  
red.; VESELOV, V.V., red.; GOLANDSKIY, D.B., red.; GOL'DIMAN,  
V.G., red.; IGNATENKO, M.A., red.; SHASHURA, M.V., red.;  
RIVKIN, G.M., red.; FIRSOV, L.V., red.; SHEPELEV, I.T., red.

[Grounding and protective cutting-off in underground workings  
of permafrost placer deposits.] Zazemleniia i zashchitnye  
otkliucheniia pri podzemnoi razrabotke mnogoletnemerzlykh  
rossypei. Magadan, Vses. nauchno-issl. in-t zolota i redkikh  
metallov, 1962. 26 p. (Magadan, Vsesoiuznyi nauchno-issledo-  
vatel'skii institut zolota i redkikh metallovo. Trudy, Gornoe  
delo, no.40) (MIRA 16:6)

(Kolyma Valley—Electric protection)  
(Kolyma Valley—Placer deposits)



POTEMKIN, S.V., glav. red.; MATSUYEV, L.P., zam. glav. red.;  
BEREZIN, V.P., red.; VESELOV, V.V., red.; GOLANDSKIY,  
D.B., red.; GOL'DTMAN, V.G., red.; IGNATENKO, M.A., red.;  
SHASHURA, M.V., red.; RIVKIN, G.M., red.; FIRSOV, L.V.,  
red.; SHAKHAROVICH, L.A., red.; SHEPELEV, I.T., red.;  
SHAROVA, L.A., red.

[Reports for 1961] Sbornik referatov za 1961 god. Magadan,  
1962. 135 p. (Its: Trudy VNII-1) (MIRA 16:7)

1. Magadan. Vsesoyuznyy nauchno-issledovatel'skiy institut  
zolota i redkikh metallov.  
(Frozen ground) (Mining engineering) (Metallurgy)  
(Building materials)

RIVKIN, G.M., inzh.

Efficient design of chain screens for the cold end of rotary kilns.  
(MIRA 1:1)  
TSement 23 no.5:30-32 S-0 '57.

1. Rizhaktsemremont. (Kilns, Rotary)

RIVKIN, G. M.

"Increasing the Strength of Detachable Core Bits." Cand  
Tech Sci, Moscow Inst of Nonferrous Metals and Gold imeni M. I.  
Kalinin, Min Higher Education USSR, Moscow, 1954. (KL, No 9,  
Feb 55)

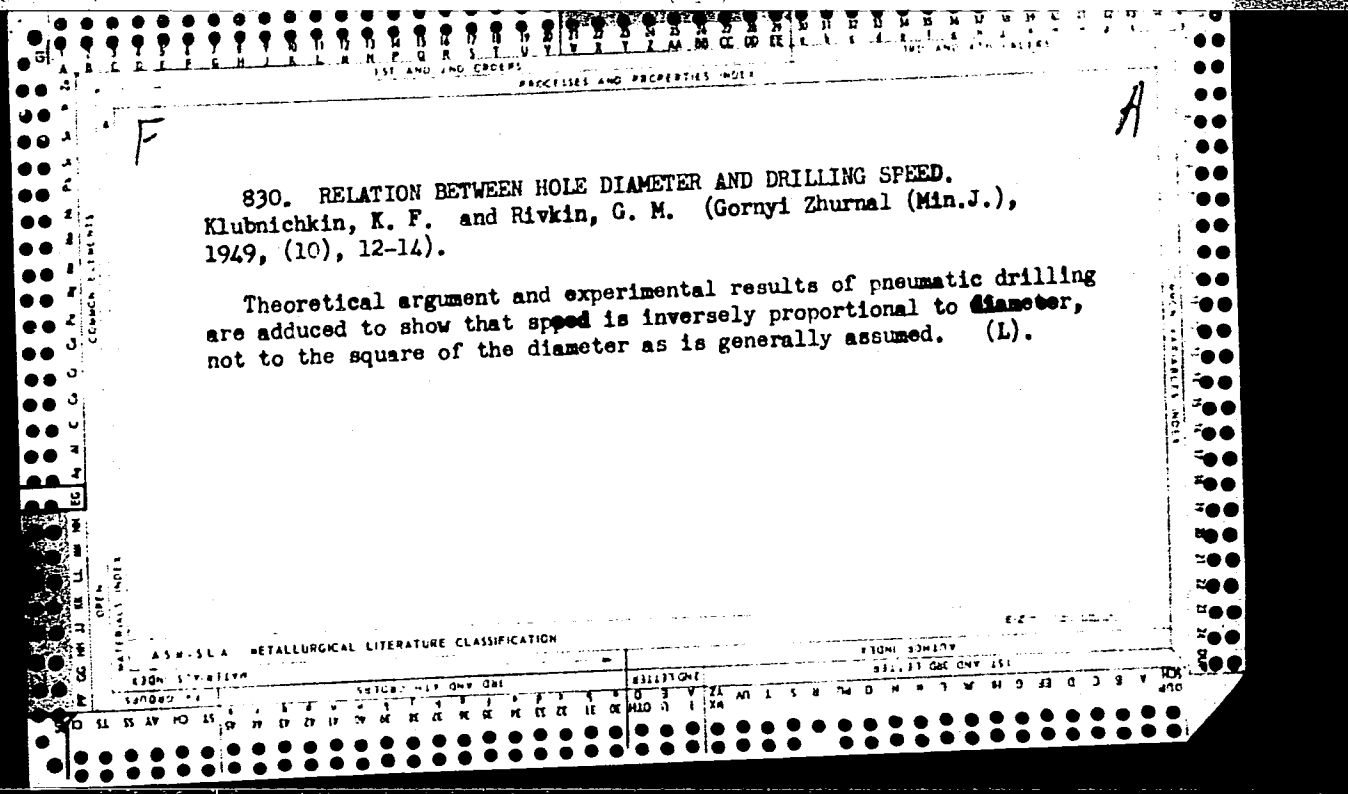
SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions  
(14)

RAVNIK, G. K., SAMOYLOV, S. I.

Turning

Finishing turning with tools equipped with a removable cutting surface. Stan. i instr. 23, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.



RIVKIN, I.A., inzhener.

Reconstruction of the Volkhov Hydroelectric Power Station. Elektrichest-  
vo no.3:89 Mr '57. (MLRA 10:4)  
(Volkhov Hydroelectric Power Station)



RUWEN, I. B.: ZAGOL'SKIY, V. P.

Mining engineering

Pressure of caved in rock on ore deposits.  
Izv. zhur. no. 2, 1952.

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

RUSSIA, U.S.S.R.

"Investigation of the Pressure of Stopel-in Rocks Applicable to the  
ore Mining conditions of the Krivoy Rog Basin." Izv. Vses. Inst. Geotekhn.  
i Inzh. Geol., Dnepropetrovsk, 1954. (Sovetsk. Ye) 55)

: Sov. No. 4-1, 26 Apr 55 - Survey of Scientific and Technical  
Literature Referenced at USSR Higher Educational Institutions  
(14)

RIVKIN, Isaak Davydovich; ZAPOL'SKIY, Vyacheslav Petrovich; BOGDANOV,  
Petr Andreyevich; SHOSTAK, A.G., redaktor; PARTSEVSKIY, B.N.,  
redaktor izdatel'stva; PETROVA, N.S., tekhnicheskiy redaktor

[Sound measuring method of observing manifestations of mine pressure  
in the workings of the Krivoy Rog Basin] Zvukometricheskii metod  
nabliudeniia proiavlenii gornogo davleniia na shakhtakh Krivorozh-  
skogo basseina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po cherno  
i tsvetnoi metallurgii. 1956. 188 p. (MIRA 9:8)

(Krivoy Rog--Subsidences (Earth movements))  
(Mining engineering)

*Rivkin, I.D.*  
BARIAS, A.G., inzh., ZITSER, I.S., inzh.; RIVKIN, I.D., kand.tekhn.nauk.

New timbering techniques used in mines of the Krivoy Rog and  
Nikopol' Basins. Bezop.truda v prom. l no.10:5-6 0 '57.  
(MIRA 10:11)

1. Krivorozhskiy nauchno-issledovatel'skiy gornorudnyy institut.  
(Krivoy Rog Basin--Mine timbering)  
(Nikopol' Basin--Mine timbering)

SOV-127-58-10-7/29

AUTHOR: Rivkin, I.D., Candidate of Technical Sciences

TITLE: Mountain Pressure at the Mine Imeni Dzerzhinskiy (Gornoye davleniye na rudnike imeni Dzerzhinskogo)

PERIODICAL: Gornyy zhurnal, 1958, Nr 10, pp 23-29 (USSR)

ABSTRACT: During mining operations in the mine imeni Dzerzhinskiy (Krivoy Rog basin), where ore deposits extended over 2,500 m, frequent cave-ins occurred when the exploitation reached the 160 m level (situated at a depth of 240 m) despite timber and metal reinforcements. The NIGRI Institute conducted extensive research to find conditions which will reduce the pressure of the overlaying rocks on the bottom of blocks by changing the layout of the exploited level and the dimensions of the blocks. This research showed that this pressure depends not only on the actual depth at which mining operations are taking place, or on the vertical magnitude of caved-in rocks, but also on the length of the blocks, on the intensity of ore extraction, and on the relative position of the simultaneously-exploited blocks. The pressure of the overlaying rocks was less than their total weight when the length of those blocks was reduced from 75 m to 40-50 m. The commission of the NIGRI Institute, composed

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Mountain Pressure at the Mine Imeni Dzerzhinskiy

SOV-127-58-10-7/29

of V.M. Zapol'skiy, V.P. Voloshchenko, A.F. Artemenko and I.P. Orel prepared graphs based on these variations of pressure (Figures 1 to 6). There are 6 graphs, 7 figures and 2 Soviet references.

ASSOCIATION: (NIGRI)

1. Mining industry--USSR 2. Mines--Hazards 3. Mines--Safety  
measures 4. Mountains--Pressure

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30V/127-59-4-3/27

18(3)

AUTHOR: Rivkin, I.D., Candidate of Technical Sciences

TITLE: Peculiarities of the Caving-In of Rocks of the Hanging Wall of Ore Deposits of the Krivoy Rog Basin. (Osobennosti obrusheniya porod visyachego boka rudnykh zalezhey Krivorozhskogo basseyna.)

PERIODICAL: Gornyy zhurnal, 1959, Nr 4, pp 24-28 (USSR)

ABSTRACT: The author classifies the iron ore deposits of the Krivoy Rog Basin into 3 groups, characterized by different conditions of pressure of overlying rocks: 1) ore deposits with a very resistant hanging wall not caving-in during the lowering of the stoping level; 2) ore deposits with a hanging wall of average resistance, which partly caves-in at the lowering of the stoping level; and 3) ore deposits with an unstable hanging wall, caving in as soon as the level of stoping work is lowered. The author describes in detail the

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SOV/127-59-4-3/27

Peculiarities of the Caving-In of Rocks of the Hanging Wall of  
Ore Deposits of the Krivoy Rog Basin.

main characteristics and dimensions particular to each group. The character of the caving-in of basic rocks of the hanging wall depends not only on their resistance to the pressure, but also on the form of their denudated surface conditioned by the ratio of the course of the deposit to the reached depth of mining operation. Taking all this into consideration, the author computed a table of classification of all deposits of the Krivoy Rog Basin into the three above mentioned groups. The names of Doctor of Technical Sciences G.M. Malakhov, Engineers V.P. Voloshchenko and A.P. Mel'nichenko, and I.K. Karnaushenko (NIGRI) are mentioned by the author. There are 2 sets of diagrams, 1 table and 2 Soviet references.

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SOV/127-59-4-3/27

Peculiarities of the Caving-In of Rocks of the Hanging Wall  
of Ore Deposits of the Krivoy Rog Basin.

ASSOCIATION: NIGRI, Krivoy Rog.

Card 3/3

CHERUENKO, A.R.; SIMFOROV, G.Ye.; SHKUTA, E.I.; TEREKHOV, I.P.;  
POLYANSKIY, F.S.; PISANKO, K.S.; SHENDRIK, V.K.; AL'TSHULER,  
M.A.; RIVKIN, I.D.; ENGEL', Ya.R.; CHETYRKIN, M.I., red.izd-va;  
PYL'NEN'KIY, A.A., red.izd-va; OSVAL'D, E.Ya., red.izd-va;  
PROZOROVSKAYA, V.L., tekhn.red.

[Sharp increase in the labor productivity of Krivoy Rog Basin  
miners; practices in the "Bol'shevik" and "Gigant" mines]  
Krutoi pod'em proizvoditel'nosti truda gorniakov Krivbasse;  
iz opyta raboty shakht "Bol'shevik" i "Gigant." Moskva, 1960.  
173 p. (MIRA 13:11)  
(Krivoy Rog Basin--Iron mines and mining--Labor productivity)

RIVKIN, I.D., kand.tekhn.nauk; VOLOSHCHENKO, V.P., kand.tekhn.nauk; MAYMIN, L.R.,  
gornyy inzh.

Parameters of mining systems with caving of deep level superposed  
rucks. Gor.zhur. no.8:15-21 Ag '65.

(MIRA 18:10)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog.

ACC NR: AT7002124 (A) SOURCE CODE: UR/0000/66/000/000/0462/0466

AUTHORS: Rivkin, I. D.; Chistyakov, Ye. P.

ORG: none

TITLE: The effect of some mining-geological factors on the stress state in rocks about the margins of mine workings

SOURCE: Vsesoyuznaya konferentsiya po polarizatsionno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 462-466

TOPIC TAGS: stress analysis, mining geology, underground facility

ABSTRACT: It has been noted that the stability of mine workings in the coal mines of the Krivoy Rog basin declines appreciably at deeper levels (700-800 m). Destruction has been especially severe in tunnels cut along the strike of thin-bedded rocks, where the intensity and manifestation of rock pressure differ appreciably from the effects in massive rocks. When the concentration of bedding fractures is 10 or more per meter, beginning at depths of 500-600 m, breakdown of tunnels begins as soon as the tunnels are cut. The authors conducted two series of experiments to study the stress state about mine workings and to investigate the mechanism of rock pressure in bedded rocks. The experiments were made on two-dimen-

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VERBITSKIY, V.M., inzh.; ZITSER, I.S., inzh.; PANYUSHKIN, P.P., inzh.;  
RIVKIN, I.D., kand.tekhn.nauk

Production of solid crystalline cast material from basic types  
of blast-furnace slag. Stroi.mat. 8 no.11:14-16 N '62.  
(MIRA 15:12)

(Slag)

(Building materials)

RIVKIN, I.D. (Krivoy Rog); SHOSTAK, A.G. (Krivoy Rog); KUYEVDA, K.I. (Krivoy Rog); PRILIPENKO, Ye.D. (Krivoy Rog)

New innovation in the method of sublevel caving. Gor.zhur. no.2:  
22-26 F '61. (MIRA 14:4)  
(Mining engineering)

RIVKIN, I. G. Cand Tech Sci -- (diss) "Study of the strength of cast and rolled high-speed steel." Len, 1956. 17 pp (Min of Higher Education USSR. Len Polytechnic Inst im M. I. Kalinin), 100 copies (KL, 14-58, 114)

RIVKIN, I. G.,

"Investigation of the Strength of Cast and Rolled High Speed Steel," Leningrad,  
1958. (Dissertation presented and approved for degree of Cand. Tech. Sci.)  
Leningrad Polytechnical Inst. im M. I. Kalinin.



RIVKIN, I.Ya., inzh.; YASTRZHEMSKIY, P.Ya., inzh., red.;  
GARNUKHIN, Ye.K., tekhn. red.

[Inventions; manufacture of instruments and automatic control devices] Sbornik izobretenii; priborostroenie i sredstva avtomatizatsii. Moskva, TSentr. biuro tekhn. informatsii, 1961.  
286 p. (MIRA 15:12)

1. Russia (1923- U.S.S.R.) Komitet po delam izobreteniy i otkrytiy.

(Instruments--Technological innovations)  
(Automatic control)

ACC NR: AP7001819 (N) SOURCE CODE: UR/0119/66/000/012/001/0004

AUTHOR: Rivkin, I. Ya. (Candidate of technical sciences)

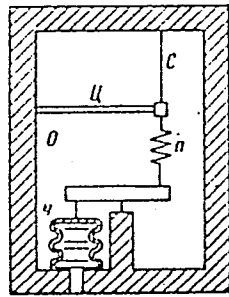
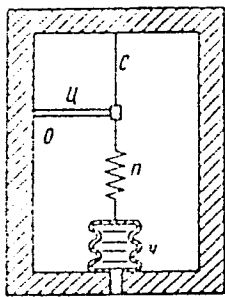
ORG: none

TITLE: Some errors of string-type transducers

SOURCE: Priborostroyeniye, no. 12, 1966, 1-4

TOPIC TAGS: signal transducer, pressure transducer, string transducer, signal modulation

ABSTRACT: String-type transducers which convert nonelectrical measurand (e.g., pressure, see figure) into electrical signal modulated by string resonance frequency are considered. The measurand either subtracts from (type a) or adds to (type b) the string tension. Three varieties of the string transducer are analyzed: (1) A strain-gage type in which the sensing-element elasticity is much lower than that of the string; (2) A force-measuring type in which a reverse relation between the elasticities exists; (3) A "spring-



Card 1/2

UDC: 621.3.088.24

ACC NR: AP7001819

force-measuring" type whose sensing element handles relatively large forces. An analysis of (a) the behavior of equivalent mechanical schemes at varying temperature and (b) the hysteresis of elastic elements shows that the type-b transducer can be expected to have minimal error. Orig. art. has: 4 figures and 33 formulas.

SUB CODE: 09, 13 / SUBM DATE: none

Card 2/2

RIVKIN, I. Ya.

Nature of disturbances in electrical well logging. Prikl.geofiz.  
no.1:50-62 '54. (MIRA 8:10)

(Oil well logging. Electric)

SOV/123-59-7-15/25

18(5)

AUTHOR: Rakovskiy, V.E., Doctor of Technical Sciences and  
Tkachenko, K.M. and Rivkina, Kh. I., Candidates of  
Technical Sciences and Senina, R.F., Engineer

TITLE: Peat Bitumens in Pattern Materials for Precision  
Casting

PERIODICAL: Iiteynoye Proizvodstvo, 1959, Nr 7, pp 35-37 (USSR)

ABSTRACT: The propagation of the precision casting method with  
flushed out patterns depends also on the existence  
of cheap and available materials with the necessary  
properties. In the USSR, a mixture of paraffine and  
glyceric stearate is used which however does not have  
all the necessary qualities. The authors have tried  
to substitute the glyceric stearate by peat bitumen.  
For industrial purposes only peat with the highest  
contents of bitumen can be used. Of great importance  
too is the solvent used. The authors suggest benzine  
or benzole. In several tables the results of the

Card 1/2

SOV/128-59-7-15/25

Peat Bitumens in Pattern Materials for Precision

Casting

experiments at the laboratory of NIIT <sup>Avtogram</sup> are given. They have been made with a paraffine-bitumen mixture of 70 : 30 mix ratio. The foundry experiments had been executed by means of a pressure die casting machine, design M.I. Henkin. This machine proved not to be suitable for this work. The machine has been improved by increasing the number of revolutions from 135 rpm to 200 rpm. The authors have also made shop experiments at Krasnogorsk. They made the introduction of a new component necessary, i.e. ceresine and colophony (BPZK in a rate of 5:2:2:1 or BPZ in a rate of 5:3:2). Both mixes can be used for precision investment casting, even during summer and in areas with high temperatures. There are 7 tables and 1 diagram

Card 2/2

RIVKIN, Il'ya Yakovlevich; ZARETSKAYA, A.I.; ved. red.

[Automatic logging stations; on a compound cable] Avto-  
matische skie karotazhnye stantsii; na mnogozhil'nom kabele.  
Moskva, Nedra, 1964. 275 p. (MIRA 17:12)







PROCESSES AND PROPERTIES INDEX

The production of butyraldehyde. A. Dostoff, S. Michie and M. Paul. *Caoutchouc and Rubber* U. S. S. R. 1947, No. 4, 34-41. BuOH was superheated and then passed at 450° over activated ZnO + 5% Al<sub>2</sub>O<sub>3</sub>. The BuOH contained 3.3% aldehyde, 2% water and 6.4% unstd. compd. The yield of FrCHO was 42-50%. A. Dostoff

ASAC-SEA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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YARIN, V., professor, zasluzhennyy deyatel' nauki i tekhniki; ULITSKIY, I.,  
kandidat tekhnicheskikh nauk; RIVKIN, S., kandidat tekhnicheskikh  
nauk.

Precast reinforced concrete large panel roofs for agricultural buildings.  
Sel'.stroitel'no no.2:15-17 F '55. (MLRA 8:4)  
(Farm buildings) (Roofs, Concrete)

RIVKIN, S.A.

Calculation of sectional precast reinforced concrete  
foundations under columns for strength and the opening  
of cracks. Osn., fund. i mekh.grun. 8 no.1:13-18 '66.  
(MIRA 19:1)

LINOVICH, Yevsey Yeremeyevich; LINOVICH, Leonid Yevseyevich; DRANNIKOV, A.M., doktor geologo-mineralog.nauk, red.; RIVKIN, S.A., dotsent, red.; BERGER, K., red.; TEPLYAKOVA, A., red.; BEREZOVSKIY, N., tekhn.red.

[Designing and constructing elements of residential and public buildings] Raschet i konstruirovaniye chastei grazhdanskikh zdaniy. Izd.5., perer. i dop. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1959. 687 p. (MIRA 13:3)

1. Kiyevskiy inzhenerno-stroitel'nyy institut (for Rivkin).  
(Building) (Structures, Theory of)

PEREYASLAVTSEV, N.A., inzh.; KISILIIYER, M.I., inzh.; RIVKIN, S.A., kand.  
tekhn. nauk; LYSENKO, Ye.F., inzh.

Precast reinforced concrete shells for covering the main  
housings of thermal electric power plants. Energ. stroi.  
no.33:14-20 '63. (MIRA 17:8)

1. Kiyevskoye otdeleniye Vsesoyuznogo gosudarstvennogo proyekt-  
nogo instituta stroitel'stva elektrostantsiy (for Pereyaslavtsev  
Kisiliyer). 2. Kiyevskiy inzhenerno-stroitel'nyy institut (for  
Rivkin, Lysenko).

RIVKIN, S.A. (Kiyev); KUZNETSOV, L.V. (Kiyev)

Experimental investigation of single-block reinforced concrete  
foundations under columns. Osn. fund. i mekh. grun. 6 no.4:  
19-22 '64. (MIRA 17:12)

RIVKIN, S.A. (Kiyev)

Reviews and bibliography. Osn., fund. i mekh.grun. 6 no.2:31-32  
'64. (MIRA 17:4)



SOV/97-58-12-3/13

**AUTHORS:** Yarin, V.N., Member of ASIA Ukrainian SSR, Professor; Rivkin, S.A., Candidate of Technical Sciences; and Korshunov, D.A., Pereyaslavl'tsev, N.A. and Kisil'iyer, M.I., Engineers.

**TITLE:** Use of Precast Large-Block Reinforced Concrete Foundations Under Columns of the Main Building of Simferopol' GRES (Opyt primeneniya sbornykh krupnoblochnykh zhelezobetonnykh fundamentov pod kolonny glavnoho korpusa Simferopol'skoy GRES).

**PERIODICAL:** Beton i Zhelezobeton, 1958, Nr.12, pp.449-453 (USSR)

**ABSTRACT:** Engineers N.A. Pereyaslavl'tsev and M.I. Kisil'iyer, of the Kiyev Branch of Teploelektroproyekt, designed a new type of precast large-block reinforced concrete foundation as illustrated in Fig.1. These new foundation slabs were tested by the Kiyev structural Engineering Institute (Kiyevskiy) inzhenerno-stroitel'nyy institut), Kiyev Branch of Teploelektroproyekt and by Yuzhenergostroy (Engineers I.F. Pishchik, Yu.A. Vol'ters and S.K. Przhivalgovskiy). The foundation blocks were

Card 1/3

SOV/97-58-12-3/13

Use of Precast Large-Block Reinforced Concrete Foundations Under  
Columns of the Main Building of Simferopol' GRES.

designed to carry 500 t positioned centrally: they measure 5.2 x 3.5 m and weigh 15.7 t. The weight of the saddle is 10.6 t. Concrete of mark 300 was used, with reinforcement from hot rolled steel of standard profile mark 25G2S. Fig.2 illustrates the points which were taken into account in testing. The foundations were tested by a load gradually increasing by 0.5-1 kg/cm<sup>2</sup>, up to the breaking limit. Table 1 gives values obtained during testing: Fig. 3 illustrates the character of cracks which appeared, and Fig.4 shows the deformation of the foundation slab. Fig. 5 illustrates the method on which the calculation of the foundation is based: formula for the bending moment of the loaded foundation is presented and explained. The calculation of the foundation for shear stresses is carried out according to NITU 123-55. The following recommendations are given for the construction of precast foundations: the concrete should not be of lower mark than 200; to save steel the size of the saddle should be bigger; account should be taken of the shear stresses, and the necessity for stirrups and

Card 2/3

SOV/97-58-12-3/13

Use of Precast Large-Block Reinforced Concrete Foundations Under  
Columns of the Main Building of Simferopol' GRES.

bends obviated; the recess in the foundation housing the beam should have walls not less than 300 mm thick; the reinforcement of the slab should be carried through the whole of its length, as should also the reinforcement of the saddle. The results of the above tests were taken into account in designing the precast large-block reinforced concrete construction under the columns of the Simferopol' GRES (see Fig.6). Assembly was carried out by the Donbassenergostroy of the Ministry of Building of the Ukrainian SSR (Ministerstvo stroitel'stva USSR). The foundations were produced by the "Stroydetal'" factory. Assembly was carried out by cranes BK-403 and BK-405, of 40 t capacity. Assembly of 70 foundation slabs with a total volume of 1066 m<sup>3</sup> of reinforced concrete was carried out in 15 days. Table 2 gives values indicating labour requirements. There are 6 figures and 2 tables.

Card 3/3

YARIN, V.N., prof., zasluzhennyy deyatel' nauki i tekhniki USSR.; RIVKIN, S.A.;  
kand.tekhn.nauk; KORSHUNOV, D.A., inzh.; PEREYASLAVTSEV, N.A., inzh.;  
KISILIYER, M.I., inzh.

Using precast reinforced concrete large-block column footings in  
constructing the main building of the Simferopol' Hydroelectric  
Power Station. Bet. i zhel.-bet. no.12:49-453 D '58.  
(MIRA 11:12)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury USSR  
(for Yarin).  
(Simferopol' Hydroelectric Power Station) (Columns, Concrete)

GRUTMAN, M.S., kand.tekhn.nauk; RIVKIN, S.A., kand.tekhn.nauk;  
SKACHKOV, I.A., inzh.

Reinforced-concrete shell of precast elements for the  
roof of a circus in Kiev. Bet. i zhel.-bet. no.4:180-184 Ap  
'61. (MIRA 14:6)  
(Reinforced concrete construction) (Kiev--Arena theatre)  
(Roofs, Shell)

RIVKIN, S. A.

USSR

621.644:621.311.22

2989. New design of outdoor pipelines for hydraulic ash removal. N. A. PEREYASLAVTSEV AND S. A. RIVKIN. *Elekt. Stants.*, 1954, No. 9, 26-9. In Russian.

The new design avoids expansion glands, the thermal expansion being taken up by lateral deflection at the angle points of the suspended zig-zag line. Details of the static calculation are discussed. Longitudinal forces due to thermal expansion are smaller than with the conventional design and do not exceed 0.5t. Design and erection are simplified by the use of standard supports.

F. BUSEMANN

RIVKIN, S.A.

USSR

2519. NEW OVERHEAD SYSTEM OF HYDRAULIC ASH REMOVAL. Pergaslaytsev, N.A. and Rivkin, S.A. (Elekt. Sta. (Pwr Sta., Moscow), Sept. 1954, vol. 25, 26-29). In one system of ash removal by hydraulic means through overhead piping the latter is freely suspended from T-shaped supports, rigid attachment being necessary only at the ends of the line. The system is more economical than existing systems using rigid supports and expansion pieces. Poles may be of wood, metal, or concrete. E.E.A.

ULITSKIY, I.I., kand.tekhn.nauk; RIVKIN, S.A., kand.tekhn.nauk; SAMOLETOV,  
M.V., inzh.; DYKHOVICHNYY, A.A., inzh.; KORSAK, Yu., red.;  
MATUSEVICH, S., tekhn.red.; PATSALYUK, P., tekhn.red.

[Reinforced concrete construction elements; analysis and design]  
Zhelezobetonnye konstruktii; raschet i konstruirovaniye. Kiev,  
Gos. izd-vo tekhn. lit-ry USSR, 1958. 875 p. (MIRA 12:2)  
(Precast concrete construction)



RIVKIN, S.A.

Calculation of precast reinforced concrete foundations for columns.  
Osn., fund. i mekh.grun. 5 no.6:8-12 '63. (MIRA 16:12)

RIVKIN, ~~F.A.~~ S.A.

YARIN, V.N., professor, zasluzhenny deyatel' nauki i tekhniki USSR;  
RIVKIN, S.A., kandidat tekhnicheskikh nauk.

Joints for prefabricated reinforced concrete columns. Stroi.prom. 32  
no.8:47 Ag '54. (MLRA 7:8)  
(Columns, Concrete)

RIVKIN, S.A., kandidat tekhnicheskikh nauk.

Approximation method for calculating free frames. Nov. v  
stroj. tekhn. no.7:178-190 '55. (MLRA 9:11)

1. Kiyevskiy inzhenerno-stroitel'nyy institut.  
(Girders) (Strains and stresses)

*RIVKIN, S.A.*

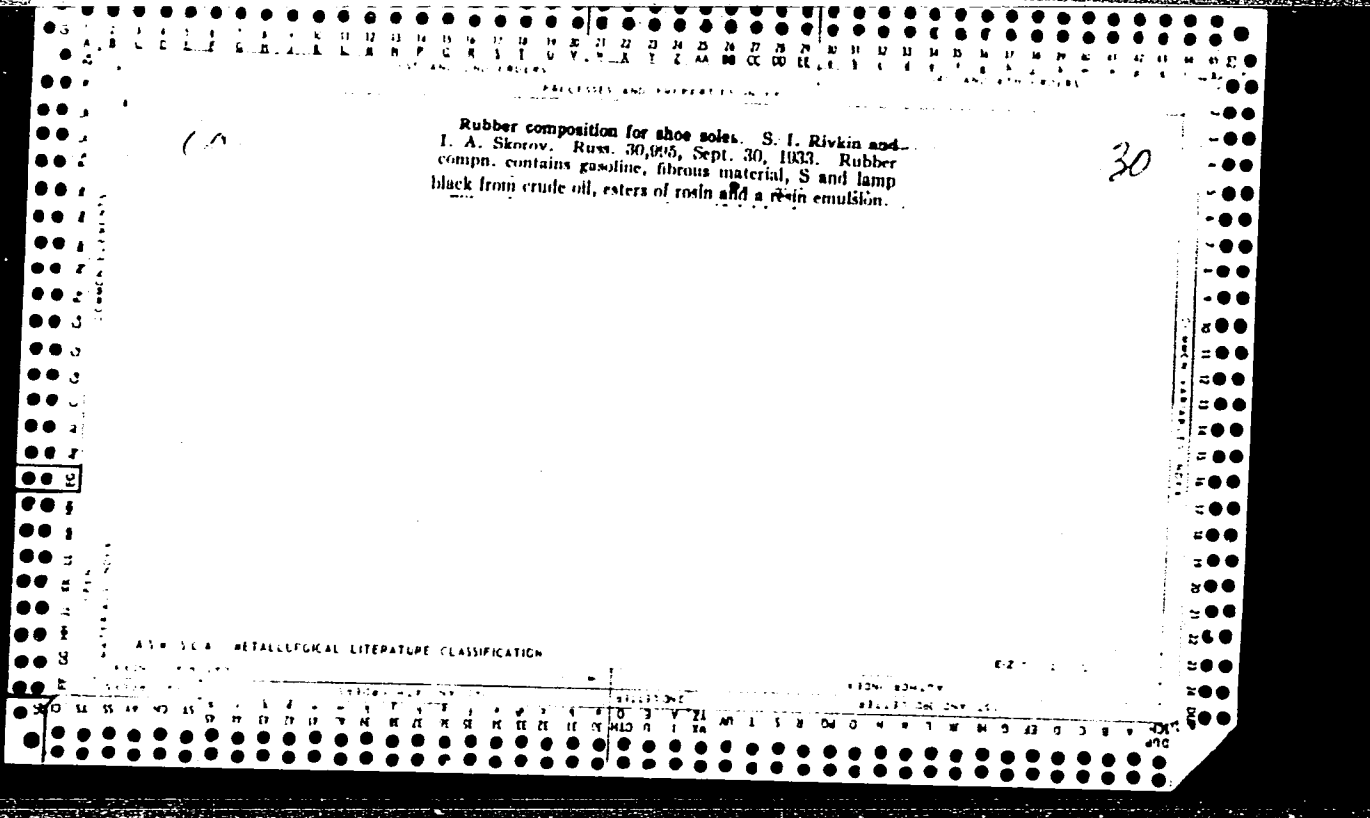
PEREYASLAVTSEV, N.A., inzhener; RIVKIN, S.A., kandidat tekhnicheskikh nauk.

New system of aerial lines for hydraulic cinder removal. **Elek.sta.**  
25 no.9:26-29 '54. (MIRA 7:9)  
(Ash disposal)

RIVKIN, Solomon Abramovich; KORSHUNOV, Dmitriy Andreyevich; FRENKEL',  
Mariya Matveyevna; SHIKAN, T.M., red.; LEUSHCHENKO, N.L.,  
tekhn. red.

[Precast reinforced concrete foundations for frame buildings]  
Sbornye zhelezobetonnye fundamenty karkasnykh zdaniy; raschet i  
konstruirovaniye. Kiev, Gos. izd-vo lit-ry po stroit. i arkhitekt.  
USSR, 1962. 135 p. (MIRA 15:4)

(Concrete footings)



231T37

USSR/Engineering - Heat, Gases, Turbines May 52

"Tables of the Thermodynamic Properties of Gases,"  
S. L. Rivkin, Cand Tech Sci, Physicotech Lab, VTI

"Iz v-s Teplotekhn Inst" No 5, pp 8-11

States that existing diagrams for air and combustion products are complicated in application and do not secure precision sufficient for tech purposes. Suggests tables, compiled on basis of ideal gases, which give sufficient precision up to pressures of 25-30 atm practically for all gases and temps used in gas turbines. States

231T37

that tables are applicable for heat calcs with any compn of fuel combustion products.

231T37

RIVKIN, S. L.

RIVKIN, S.L.; MARKIN, V.F., redaktor; SKVORTSOV, I.M., redaktor.

[Tables of thermodynamic properties of gases] Tablitsy termodynamicheskikh svoistv gazov. [Sostavleny pod rukovodstvom S.L.Rivkina] Moskva, Gos.energ. izd-vo, 1953. 266 p. (MLRA 7:1)

1. Moscow. Vsesoiuznyy teplotekhnicheskii institut. (Gases)



*Rivkin, S.L.*

81 111

*3*

2000. HEAT DIAGRAM FOR AIR AND COMBUSTION PRODUCTS OF FUELS.  
Rivkin, S.L. (Izvest. Vsesoyuz. Teploteh. Inst. (Bull. All-Union. Pwr Engng  
Inst., 1952, vol. 21, (9), 7-11; abstr. in Chem. Abstr., 1954, vol. 48,  
3005). A simply constructed TS diagram for air and the combustion products  
of liquid, solid, or gaseous fuels is given, which combines high accuracy  
with convenience in use. It includes the thermodynamic properties of  
combustion products of the fuels and is applicable at pressures of  
25-30 kg/sq. cm to practically all gases and temperatures in use in gas  
turbines. C.A.

*JM*

RIVKIN, S.L., kandidat tekhnicheskikh nauk; SAVENYEV, V.I., redaktor;  
SKVORTSOV, I.M., tekhnicheskij redaktor

[Thermodynamic properties of the air and products of combustion]  
Termodinamicheskie svoistva vozdukha i produktov sgorania topliv.  
Moskva, Gos. energ. izd-vo, 1955. 39 p. diagra. (MLRA 8:5)

1. Moscow. Vsesoyuznyy teplotekhnicheskij institut.  
(Combustion)

AID P - 4966

Subject : USSR/Engineering

Card 1/2 Pub. 110-a - 15/21

Authors : Rivkin, S. L., A. M. Sirota, Kandidats Tech. Sci.

Title : ~~Tables of the thermodynamic properties of water and steam~~  
for pressures up to 400 atmospheres and temperatures up to 750°C. (Reference Material)

Periodical : Teploenergetika, 8, 52-54, Ag 1956

Abstract : Tables compiled by the Physical and Technical Department of the All-Union Heat Engineering Institute (VTI) are presented. They are based on the VTI tables of 1952, revised and expanded for the higher temperatures and pressures. 2 tables. 5 references.

Institution : All-Union Heat Engineering Institute

Submitted : No date

TIMROT, D.L., doktor tekhn.nauk; RIVKIN, S.L., kand.tekhn.nauk; SIROTA, A.M.,  
kand.tekhn.nauk; VARGAFTIK, N.B., doktor tekhn.nauk; NIKOLAYEV, V.V.,  
red. MEDVEDEV, L.Ya., tekhn.red.

[Tables of thermodynamic properties of water and steam] Tablitsy  
termodinamicheskikh svoistv vody i vodianogo para. Izd. 2-oe, dop.  
Moskva, Gos. energ. izd-vo, 1958. 106 p. (MIRA 11:4)

1. Moscow. Vsesoyuznyy teplotekhnicheskii institut.  
(Steam--Tables, calculations, etc.)

Мирный, В.Я., канд.техн.наук: НИИТ, С.И., канд.техн.наук

Снабжение Атомной Флоры (УСР). Энергохоз. за раб.

№: -14 12.

(МР: 12:7)

(Снабжение--Атомные электростанции)

96-1-29/31

AUTHORS: Rivkin, S.L. and Sirota, A.M., Candidates of Technical Sciences.

TITLE: On the new Tables of Thermodynamic Properties of Steam at High Temperatures and Pressures (O novykh tablitsakh opornykh znacheniy termodinamicheskikh svoystv vodyanogo para vysokikh parametrov)

PERIODICAL: Teploenergetika, 1958, vol.5, No.1, pp. 90 - 93 (USSR).

ABSTRACT: An article giving new steam tables was published in Teploenergetika, 1956, no.1. It stated that in most cases, values of enthalpy calculated from pressure, volume and temperature data were higher than those calculated from the specific heat at constant pressure. The authors thought that apart from experimental error, this might result from errors in the initial data about the enthalpy of steam in the ideal gas conditions. However, this explanation is not convincing and the graphs given in Fig.1 show that the divergence between the values of enthalpy calculated in the two ways increases with the temperature and pressure and is 16 kcal/kg at 600 °C and 500 kg/cm<sup>2</sup>. A possible cause of the large difference may be error in graphical determination of the enthalpy from pressure, volume and temperature data. This is particularly likely in the article concerned, which used graphical

Card1/2

96-1-29/31

On the New Tables of Thermodynamic Properties of Steam at High  
Temperatures and Pressures.

differentiation of the isobars of specific volume. Fig. 2 gives comparative values of specific volume according to the table of the All-Union Thermo-technical Institute (VTI) and the reference points of the Moscow Power Institute (MEI). Some large discrepancies occur, mainly because of the scatter of the points of the Moscow Power Institute. It is concluded that the experimental data on the specific heat of constant pressure obtained in the Moscow Power Institute are systematically low. This reduces the value of the steam tables. There are 3 figures and 6 references, 5 of which are Slavic.

AVAILABLE: Library of Congress

card 1/2

DOROSHCHUK, V.Ye., kand.tekhn.nauk; RIVKIN, S.L., kand.tekhn.nauk

Shippingport Atomic Power Plant (U.S.A.). Elek. sta. no.4  
Supplement:9-14 J1-Ag '58. (MIRA 11:10)  
(Shippingport--Atomic power plants)



RIVKIN, S.L., kand.tekhn.nauk; YEGOROV, B.N., inzh.

Experimental investigation of the heat capacity of ethyl alcohol of 94 per cent (by weight) concentration in the supercritical zone of the parameters of state. Teploenergetika 8 no.7:60-67 J1 '61. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.  
(Ethyl alcohol) (Heat capacity)

PHASE I BOOK EXPLOITATION

SOV/6138

Rivkin, Solomon Lazarevich

Termodinamicheskiye svoystva vozdukha i produktov sgoraniya topliv (Thermodynamic Properties of Fuel Combustion Products and Air) 2d ed., rev. and enl. Moscow, Gosenergoizdat, 1962. 102 p. Errata printed on inside back cover. 7500 copies printed.

Ed.: A. M. Litvin; Tech. Ed.: N. I. Borunov.

**PURPOSE:** This book is intended for workers in power enterprises, design and planning and scientific research institutes, and students specializing in heat engineering at schools of higher education.

**COVERAGE:** Tables and diagrams of the thermodynamic properties of fuel combustion products and air for temperatures from -100 to 1500°C are provided and discussed theoretically. The tables make use of a parameter,  $\beta_g$ , which practically eliminates interpolation and aids in determining combustion

Card 1/3

Thermodynamic Properties of Fuel (Cont.)

SOV/6138

products. The author thanks Professor Ya. M. Rubinshteyn, Doctor of Technical Sciences, and A. M. Litvin for their assistance. There are 4 references, all Soviet.

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5. Fields of Application of Diagrams	8
6. Tables of Thermodynamic Properties of Fuel Combustion Products and Air	10

Card 2/3

Thermodynamic Properties of Fuel (Cont.)	SOV/ 6138
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8. Sample Use of Diagrams	12
9. Nomograms for Calculating the Heat Processes of Gas Turbine Units	14

AVAILABLE: Library of Congress

SUBJECT: Mechanical Engineering

Card 3/3

BN/cb/gm  
12/14/62