POKROVSKIY, P.V.

Regularities of the structural relations of pyrite, sphalerite, and chalcopyrite in the quartz veins of the Middle Ural. P. V. Pokrovskii. *Trudy Gorno-Geol. Inst., Akad. Nauk. S.S.S.R., Ural. Filial* 1955, No. 26, 68–72.—In the quartz veins of the eastern contact zone of the Shilovo-Konevsk intrusion (especially the group of the P'yankovo veins), pyrite crystals show regular inclusions of sphalerite in a very characteristic orientation indicating the boundaries of the host crystals and parallel-emulsoid, subgraphic segregation forms. The immediate boundary zones are often entirely free of sphalerite inclusions. Similar phenomena are observed in sphalerite crystals with inclusions of chalcopyrite which become coarser from the peripheral to the central portions. Spectral-analytical examin. of the Cu contents of the sphalerite filled with chalcopyrite inclusions gave the same results as that of a sphalerite of the boundary zone in which the microscopic examn. could not detect any inclusions. Therefore, P. concludes that homegeneous solid solns. of the sulfide minerals were gradually unmixed in the different types of structures observed in the polished sections. The exsolu. process took place under the post-humous-hydrothermal conditions of the deposits in the quartz veins. P. refutes the hypothesis of secondary replacement for the described structures. Every grain of the original solid solns. behaves as an independent closed phys.-chem. system. The zonal differences of grain size of the unmixed mineral in the host crystals are explained by migration and diffusion phenomena. A crystn. law of Bakil (1954) is applied to them showing a soly. curve for the size increase as a function of the diam. of the particles. This curve has a max. for a distinct size, and a threshold diam. below which no grain growth occurs. W. Eitel

POKROVSKIY, P.V.; GRIGOR'YEV, N.A.; POTASHKO, K.A.

Secondary phosphates of beryllium and their distribution in the weathering surface of mica-fluorite greisens. Trudy Inst. geol. UFAN SSSR no.70:205-209 '65. (MIRA 18:12)

POKROVSKIY, P.V.; GRIGOR'YEV, N.A.

Mechanism of the formation of rhythmic-banded structures in the process of diffusion metasomatosis. Trudy Inst. geol. UFAN SSSR no.70:211-219 '65. (MIRA 18:12)

POKROVSKIY, P.V.; TORMOSOVA, G.F.; KOLENKO, L.I.

Weinschenkite from the Central Urals. Dokl. AN SSSR 162 no.1:173-175 My '65. (MIRA 18:5)

1. Institut geologii Ural'skogo filiala AN SSSR. Submitted December 21, 1964.

POKROVSKIY, P.V.; GRIGOR'YEV, N.A.

Crandallite from the hydrothermal-pneumatolytic zone in the Central Ural Mountains. Zap. Vses. min. ob-va 92 no.5:601-607 '63. (MIRA 17:1)

1. Ural'skiy filial AN SSSR, institut geologii, Sverdlovsk.

POKROVSKIY, P.V.; GRIGOR'YEV, N.A.; POTASHKO, K.A.; AYZIKOVICH, A.N.

Moraesite from the Urals. Zap.Vses.min.ob-va. 92 no.2:232-239 '63. (MIRA 16:5)

1. Institut geologii Ural'skogo filiala AN SSSR i Ural'skoye geologicheskoye upravleniye.
(Ural Mountains—Moraesite)

POKROVSKIY, P. V.
Sheremet'yev, Ya. A.

105

PHASE I BOOK EXPLOITATION SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

Pokrovskiy, P. V. 110

PHASE I BOOK EXPLOITATION SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

Card 1/15

Materials of the Third Ural Conference (Cont.) SOV/6181

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

TABLE OF CONTENTS:

POKROVSKIY, P.V., inzh.; LOGINOV, V.N., inzh.

Correlation between the contents of trace and basic elements in ores of the Karabash pyritic copper deposit. Izv. vys. ucheb. zav.; gor. zhur. 5 no.3:9-17 '62. (MIRA 15:7)

1. Gornogeologicheskiy institut Ural'skogo filiala AN SSSR. Rekomendovana laboratoriyey geokhimii redkikh elementov Ural'skogo filiala AN SSSR.
(Karabash region (Chelyabinsk Province)--Chalcopyrite)

POKROVSKIY, P.V.

Stolzite. Trudy Gor.-geol.inst. UFAN SSSR no.56:53-60 '61.
(MIRA 15:7)

(Stolzite)

POKROVSKIY, S.

A handy adjustment. Zhivotnovodstvo 21 no.11:79 N '59 (MIRA 13:3)

1. Glavnyy zootekhnik Kuybyshevskoy gosudarstvennoy stantsii po plemennomu delu i iskusstvennomu osemeneniyu sel'skokhozyaystvennykh zhivotnykh.
(Veterinary instruments and apparatus)

POKROVSKIY, S A., prof., otv. red. ROZENGOLV A I., prof., red. PETROVA, I.S., st. nauchn. sotr., red. PASECHNIK, P.I., st. nauchn. sotr., red. SUSLOVA O.Ya., doktor med. nauk, red.; ROZENFEL'D, G.I., tekhn. red.

[Problems in the X-ray diagnosis of diseases of the organs of the abdominal cavity] Voprosy rentgenodiagnostiki zabolevanii organov brjushnoi polosti. Kiev, Zdorov'ia, 1965. 278 p. (MIRA 18:9)

1. Kiyevskiy nauchno-issledovatel'skiy rentgenoradiologicheskiy i onkologicheskiy institut.

FOMENSKIY, S.A., prof. (Kiyev, 54, ul. Chkalova, d.79, kv.10); BARAN, L.A., kand. med. nauk

Spontaneous dissolution of the bones. Ortop. travm. i protez. 26 no.6:69-72 Je '65. (MIRA 18:8)

1. Iz Kiyevskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir.-zasluzhennyy deyatel' nauki prof. I.T. Chevchenko).

POKROVSKIY, S.A., prof.(Kiyev)

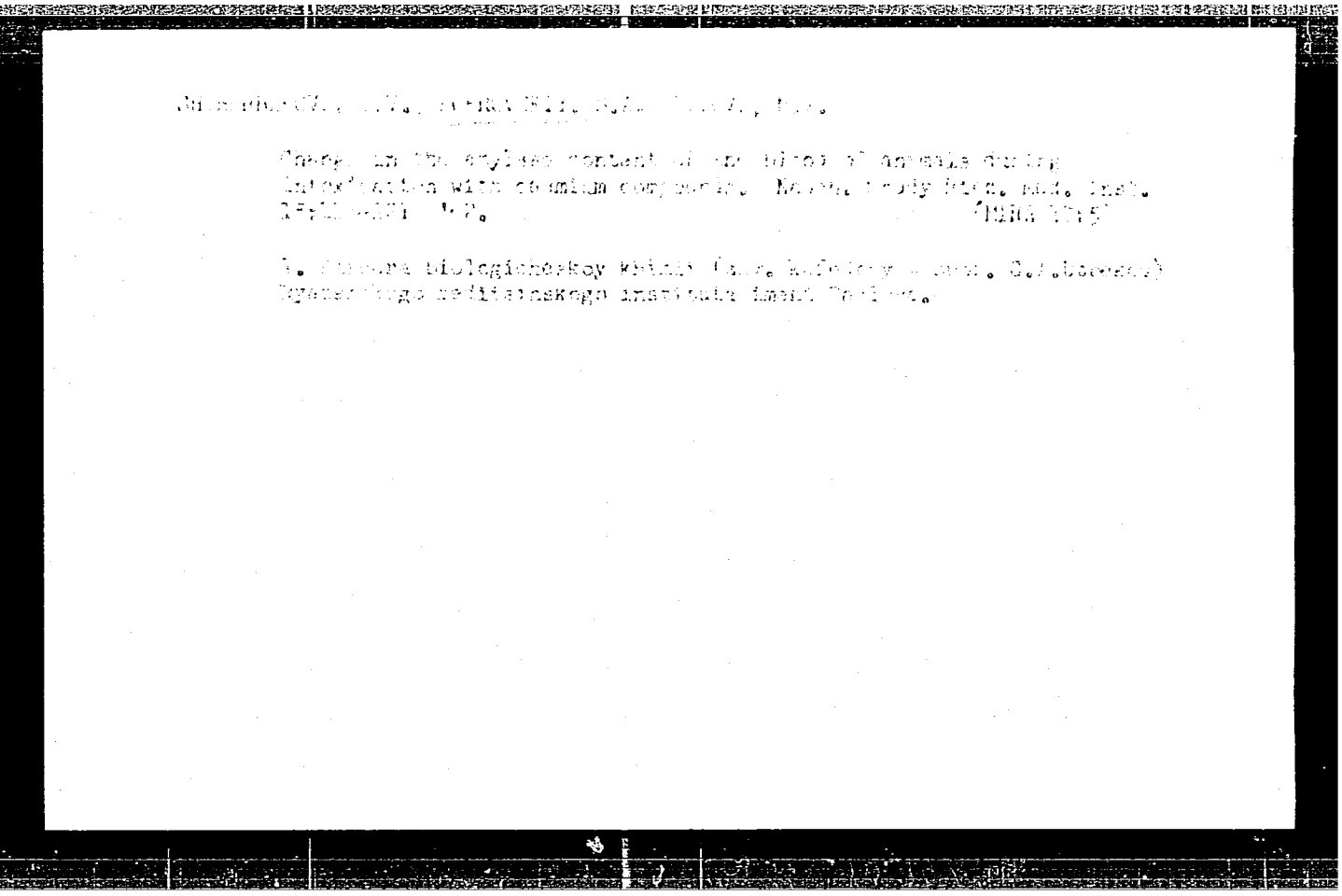
"New apparatus and methods for X-ray examination" by M.S. Ovoshchnikov. Reviewed by S.A.Pokrovskii. Vrach.delo no.4 154-156 Ap'63. (MIRA 16:7)

(RADIOGRAPHY—EQUIPMENT AND SUPPLIES)
(OVOSHCHNIKOV, M.S.)

VOINOV, Ye.A.; OPANASENKO, V.G.; POKROVSKIY, S.A. (Kiyev, ul.Chkalova, d.79, kv.10)

Clinical X-ray diagnosis of tumors of the soft tissues of the extremities. Klin.khir. no.7:28-33 Jl '62. (MIRA 15:9)

1. Kiyevskiy nauchno-issledovatel'skiy rentgeno-radiologicheskiy i onkologicheskiy institut.
(EXTREMITIES (ANATOMY)--TUMORS) (DIAGNOSIS, RADIOSCOPIC)



POKROVSKIY, S.A., prof.

On the 80th birthday of Fani Il'inichna Lapidus, 1884. Vest. rent. i rad. 39 no.4:84-85 Jl-Ag '64. (MIRA 18:7)

TITOVA, A.I. prof.; GOLIKOVA, T.M.; VOLKOVA, A.V.; POKROVSKIY, S.A.; DAVYDOV, B.N.; NAZARETSKIY, F. Ye.

Clinical aspects and treatment of chronic pneumonia in children. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:3-11 '63 (MIRA 19:1)

1. Iz kafedry detskikh bolezney (zav. kafedroy - prof. A.I.Titova) Yaroslavskogo gosudarstvennogo meditsinskogo instituta (rektor - prof. N. Ye. Yarygin).

G[illegible]UKOVA, T.[illegible]; [illegible]VA, A.V.; [illegible]KROVSKIY, S.A.

Metamorphosis of children with chronic pneumonia. Sbor. nauch. trud. Ivan. gos. med. inst. no. 28:32-3[illegible] '63.
(MIRA 19:1)

1. Iz kafedry detskikh bolezney (zav. kafedroy - prof. A. [illegible] Titova) Yaroslavskogo meditsinskogo instituta (rektor - prof. N. Ya. Yarygin).

POKROVSKIY, S.A.

[X-ray diagnosis of bone tumors] Rentgenodiagnostika opukholei kostei. Kiev, Gos. med. izd-vo USSR, 1954. 214 p. (MLRA 7:12)
(Diagnosis, Radioscopic) (Bones--Tumors)

POKROVSKIY, S.A. prof.

Activities of the Kiev Society of Roentgenologists and Radiologists.
Vest.rent. i rad. 33 no.3:91-93 My-Je '58 (MIRA 11:8)
(RADIOLOGY, MEDICAL)

SHEVCHENKO, I.T., prof. (Kiyev, ul. Panfilovtsev, d.18); POKROVSKIY, S.A., prof.; GANINA, K.P., starshiy nauchnyy sotrudnik

Primary malignant bone tumors; analysis of one hudred twenty-one cases. Nov.khir.arkh. no.6:56-66 N-D '59. (MIRA 13:4)

1. Kiyevskiy nauchno-issledovatel'skiy rentgeno-radiologicheskiy i onkologicheskiy institut.
(BONES--CANCER)

POKROVSKIY, S.A.

Cardiovascular system in chronic pneumonia in children during remission. Pediatriia 37 no.7:26-31 Jl '59. (MIRA 12:10)

1. Iz kliniki detskikh bolezney Yaroslavskogo meditsinskogo instituta (zav. kafedroy - prof.A.I.Titova).
(PNEUMONIA, in inf. & child,
cardiovasc. system during remission (Rus))

POKROVSKIY, S.A. (Kiyev, ul. Tolstogo, d.7, kv.1); SEMENOVA, A.M.; NEKRASOV, P.Ya.

Radiotherapy in malignant bone tumors. Nov. khir. arkh. no.2: 89-96 Mr-Ap '60. (MIRA 14:11)

1. Kiyevskiy nauchno-issledovatel'skiy rentgeno-radiologicheskiy i onkologicheskiy institut.
(BONES--CANCER) (RADIOTHERAPY)

BARKANOV, I.V.; GRUSHEVOY, V.G.; DENISOVA, M.B.; KUL'BAKH-GLEBOVA, G.O.; POKROVSKIY, S.D.; POLFEROV, D.V.; UNKSOV, V.A.; KHOLMOV, G.V.

In memory of D.F.Murashov. Geol.rud.mestorozh. no.4:110 Jl-Ag '61. (MIRA 14:10)

(Murashov, Dmitrii Fedorovich, 1889-1961)

POKROVSKIY, S.F.

Observation and experiment in home assignments in physics for the 6th and 7th grades of secondary schools. Fiz.v shkole 7 no.2:58-74 '47. (MLRA 6:11)

1. Moskva, 103-ya shkola. (Physics--Problems, exercises, etc.)

POKROVSKIY, S. F.

POKROVSKIY, S.F.; KALASHNIKOV, A.G., redaktor.

[Experiments and observations in home physics assignments; teachers' manual] Opyty i nabliudeniia v domashnikh zadaniiakh po fizike; posobie dlia uchitelei. Pod obshchei red. A.G.Kalashnikova. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1951. 215 p. (MLRA 7:3)
(Physics--Experiments)

POKROVSKIY, S.F.

PHASE I BOOK EXPLOITATION SOV/4809

Vorob'yev, A.A., G.A. Vorob'yev, N.I. Vorob'yev, A.F. Kalganov, I.I. Kalyatskiy, V.D. Kochin, G.A. Mesyats, S.F. Pokrovskiy, K.K. Sonchik, and A.T. Chepikov

Vysokovol'tnoye ispytatel'noye oborudovaniye i izmereniya (High-Voltage Testing Equipment and Measurements) Moscow, Gosenergoizdat, 1960. 583 p. Errata slip inserted. 10,500 copies printed.

Ed. (Title page): A.A. Vorob'yev, Professor; Ed. (Inside book): A.I. Dolginov; Tech. Ed.: K.P. Voronin

PURPOSE: This book is intended as a textbook for students taking courses dealing with high-voltage technique and high-voltage testing equipment. It may also be of use to the personnel in high-voltage laboratories and scientific institutions. New data contained in the book may be of interest to electricians.

COVERAGE: The book describes methods and installations used for generating and measuring high and superhigh constant, alternating, and pulse voltages used in laboratory work and in charged-particle acceleration processes. Some data contained in the book could be used in designing and computing high-voltage installations. The book was written by the staff members of the Department of High-Voltage Technique of the Tomsk Polytechnic Institute. Chapters I and II were written by A.A. Vorob'yev, with paragraphs I-1 and I-2 written jointly with

Card 1/6

I.I. Kalyatskiy, paragraph I-6 with N.I. Vorob'yev, paragraphs II-1 to II-6 and II-10 to II-13 with A.F. Kalganov, and paragraphs II-7 to II-9 with V.D. Kochin. Ch. III was written by A.A. Vorob'yev, with the exception of paragraph III-4, written by S.F. Pokrovskiy and paragraph III-6, written jointly by A.A. Vorob'yev and the latter. Ch. IV: paragraphs IV-1 to IV-3 were written by I.I. Kalyatskiy; paragraphs IV-5 and IV-6 by A.A. Vorob'yev; paragraph IV-4 by A.A. Vorob'yev and I.I. Kalyatskiy jointly; paragraph IV-7 by K.K. Sonchik; paragraph IV-8 by G.A. Mesyats; and paragraphs IV-9 and IV-10 by N.I. Vorob'yev. Ch. V: paragraphs V-1, V-2 and V-12 were written by A.A. Vorob'yev; paragraphs V-3, V-4 and V-8 by A.A. Vorob'yev and G.A. Vorob'yev jointly; paragraphs V-5 to V-7 by A.A. Vorob'yev and A.T. Chepikov jointly; paragraphs V-9 to V-11 by A.A. Vorob'yev; and paragraph V-13 by K.K. Sonchik. The authors thank Engineer L.T. Murashko for his assistance. References accompany each chapter.

TABLE OF CONTENTS:

Card 2/6

S/089/60/009/004/010/020
B006/B070

21.2100
26.2332

AUTHORS: Vorob'yev, A. A., Pokrovskiy, S. F.

TITLE: Comparison of Circuits of Cascade Generators for the Production of Large Currents With Small Pulsation

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 4, pp. 305 - 308

TEXT: For making exact measurements on thin targets in the energy range of 2 - 3 Mev, it is necessary that the particle energy be constant up to 0.1 - 0.5% for a beam current of the order of 5 - 10 ma. The authors have investigated the possibility of using for this purpose an electrostatic accelerator which works with a cascade generator of a power of up to 30 kw. They have compared the calculations of cascade-generator circuits according to different theories with one another and with experimental data. The formulas of calculations for four cascade generators are collected in Table 1. They are taken from papers of V. S. Melikhov, V. S. Novikovskiy, A. Bouwers, and the authors of the present "Letter to the Editor". Fig. 1 shows the dependence of the pulsation of the output potential δU on the number of stages n for a cascade generator with a

Card 1/3

Comparison of Circuits of Cascade Generators for the Production of Large Currents With Small Pulsation

S/089/60/009/004/010/020
B006/B070

selenium rectifier, which has a charging current of 1 ma, an input potential of frequency 50 cps, and 2 - 7 stages. Fig. 2 shows the dependence of the fall in the output potential on n for a charging current of 2 ma for one and the same generator circuit. The results of comparison between the theoretical and experimental results are summarized as follows (the methods of calculation are named after their authors): 1) For a Cockcroft-Walton generator, the best agreement is obtained by using the formulas of Vorob'yev and Melikhov; 2) for calculating the voltage pulsation for a symmetric circuit, the best formula is that of Novikovskiy, and for a more exact calculation, that of Pokrovskiy; for calculating the fall of potential, the best formula is that of Novikovskiy and Pokrovskiy; 3) for a three-phase circuit, the best formula is that of Pokrovskiy. The properties of four types of cascade generator are compared in Table 2. This leads to the following conclusions: 1) The Cockcroft-Walton circuit is the simplest, but pulsation and voltage fall are large. 2) Cascade-generator circuits with capacitances which decrease linearly with the distance from the source of potential have 13 times less pulsation and 17 times less fall of

POKROVSKIY, Sergey Fedorovich; SHAPOSHNIKOVA, A.A., red.; POLUKAROVA, Ye.K., tekhn. red.

[Experiments and observations in home work in physics; textbook for teachers] Opyty i nabliudeniia v domashnikh zadaniiakh po fizike; posobie dlia uchitelei. Izd.2., pererer. i dop. Moskva, APN RSFSR, 1963. 415 p.
(MIRA 17:3)

POKROVSKIY, G.I. (Moskva); TIPKOMILOV, V.K. (Moskva)

Obtaining carbon-free ammonia by means of ion exchange. Lab. delo no. 8:479 '62. (MIRA 17:12)

L 29126-66 EWT(m)
ACC NR: AP6019404 SOURCE CODE: UR/0240/65/000/011/0086/0091

AUTHOR: Petrukhin, N. V.(Chemical engineer); Pokrovskiy, S. I.; Tikhomirov, V. K.; Ryadov, V. G.(Candidate of medical sciences; Moscow)

ORG: none

TITLE: Determination of radiocesium 19 in environmental objects 65 B

SOURCE: Gigiyena i sanitariya, no. 11, 1965, 86-91

TOPIC TAGS: cesium, radioisotope, radiometry, radiation chemistry, scintillation spectrometer

ABSTRACT: The article is essentially a review of the literature. After briefly discussing the distribution and biological characteristics of Cs^{137}, the authors describe in detail methods of preparing samples (liquids, solids, and soil) for analysis. The various radiochemical methods of determining radiocesium are based on the principle of precipitation with specific reagents (12 are listed with the published source where they were first described) and an isotopic carrier, followed by measurement of the activity of the precipate. The carrier generally used is stable Cs, which as a chloride or nitrate solution is added to the solution obtained in the course of preparing the sample for analysis. Radiometry of the preparations is the final procedure. The author notes that spectrometric methods are coming into increasing use. They require crystalline or liquid scintillation elements with analyzers of different kinds of pulses as recording devices. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 18, 07 / SUBM DATE: 11May65 / ORIG REF: 013 / OTH REF: 028

Card 1/1 CC UDC: 614.73:546.176.02.137-074

SOV/121-58-10-18/25

AUTHOR: Pokrovskiy, S.I.

TITLE: Gear Shaping Head for a Gear Hobbing Machine (Zubodolb_ezhnaya golovka K zubofrezernomu stanku)

PERIODICAL: Stanki i Instrument, 1958, 29 Nr 10, p 39 (USSR)

ABSTRACT: A gear shaping attachment working on the "Fellows" principle suitable for operation on a gear hobbing machine is shown in the photograph and a perspective sketch of the mechanism. There are 2 illustrations including 1 photo.

Card 1/1

POKROVSKIY, S.M.

Computation of heat transfer in liquid-fuel steam boiler furnaces. Inzh.-fiz.zhur. 5 no.12:84-85 D '62. (MIRA 16:2)

1. Institut inzhenerov zheleznodorozhnogo transporta, Moskva.
(Furnaces) (Heat—Transmission)

POKROVSKIY, S.M.

Improvement of footwear quality. Leg.prom. 16 no.5:10 My '56.
(MLRA 9:8)

1. Zamestitel' nachal'nika otdela tekhnicheskogo kontrolya fabriki "Skorokhod".

(Shoe industry)

L 62554-65 EWT(1)

ACCESSION NR: AT5016482 UR/2649/65/000/189/0071/0075 16 15 B+1

AUTHOR: Pokrovskiy, S. M.; Lebedev, V. I.

TITLE: Use of a directional radiometer for experimental determination of the effective degree of blackness of a jet

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 189, 1965. Issledovaniye teploobmena v teploenergeticheskikh ustanovkakh i v ustanovkakh dlya polucheniya poluprovodnikovykh materialov (Investigation of heat exchange in thermal power units and in equipment for producing semiconductor materials), 71-75

TOPIC TAGS: thermodynamic analysis, black body radiation, 21 thermal radiation

ABSTRACT: This article presents results of experimental determination of the degree of blackness of a jet during combustion of a liquid fuel (kerosene) and of a gas (propane in the pure form and mixed with chrome-magnesite dust) and these results are compared with calculated data. The radiation flux was measured by a directional radiometer placed in a window in the wall of a furnace. Radiation from the jet fell upon the element of the radiometer. Before the experiment, the radiometer was

Card 1/2

L 02554-65
ACCESSION NR: AT5016482

calibrated by rays from an ideal black body. The results are tabulated. Orig. art. has: 3 formulas, 2 tables.

ASSOCIATION: Institut inzhenerov zheleznodorozhnogo transporta, Moscow (Institute of Railroad Transportation Engineers)

SUBMITTED: 00 ENCL: 00 SUB CODE: OP, NP

NO REF SOV: 003 OTHER: 000

awm

Card 2/2

DAKHSHLEYGER, O.F.

Aleksei Ivanovich Butakov, the distinguished explorer of the Aral Sea. Vest.AN Kazakh.SSR 11 no.2:81-86 F '54. (MLRA 7:4)

1. Predstavlena deystvitel'nym chlenom Akademii nauk KazSSR S.N.Pokrovskim. (Aral Sea--Description and travel) (Butakov, Aleksei Ivanovich, 1816-)

POKROVSKIY, S. N.

SATPAYEV, K.I., akademik, red.; BAISHEV, S.B., akademik, red.; BAZANOVA, N.U., akademik, red.; POLOSUKHIN, A.P., akademik, red.; POKROVSKIY, S.N., akademik, red.; ZYKOV, D.A., akademik, red.; CHOKIN, Sh.Ch., akademik, red.; GORSHENIN, D.S., red.; ROROKINA, Z.P., tekhn.red.

[Science in Kazakhstan during the forty years of the Soviet regime] Nauka v Kazakhstane za sorok let sovetskoi vlasti. Alma-Ata, 1957. 452 p. [in Kazakh and Russian] (MIRA 11:2)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata.
(Kazakhstan--Economic conditions)
(Kazakhstan--Science)

POKROVSKIY, S.M., assistent

Complex heat exchange in combustion chambers operating on liquid fuel. Trudy MIIT no.125:122-131 '60. (MIRA 13:10)
(Heat—Transmission) (Combustion)

POKROVSKIY, S.N.
POKROWSKY, S. N.

PA 16T31

USSR/Medicine - Malaria Feb 1947
Medicine - Influenza

"The Seasonal Incidences of Malaria and Grippe," S. N. Pokrowsky, Institute of Malaria, Medicinal Parasitology, and Helminthology of the Academy of Medical Sciences of the USSR, 4 pp

"Meditsinskaya Parazitologiya" Vol XVI, No 2

Brief statistical discussion fully illustrated with graphs. Covers 1931 - 1938 in Stalingrad Oblast.

16T31

POKROVSKIY, S.A.

Malarial Fever

Principles in the study of malaria. Sov.med. 16, no. 4, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, SEPTEMBER 1952. UNCLASSIFIED.

POKROVSKIY, S.N.; MITARNOVSKIY, V.M.; POLOVODOVA, V.P.

Organization of anti-malarial measures in connection with the construction of the Stalingrad hydroelectric power station (survey of work of 1952). Med.paraz.i paraz.bol. no.2:185-186 Mr-Ap '53. (MLRA 6:6)
(Stalingrad--Malarial fever)

POKROVSKIY, Sergey Nikandrovich.

State Sci Res Inst of Malaria and Medical Parasitology of the Min of Health RSFSR. Academic degree of Doctor of Medical Sciences, based on his defense 29 April 1954 in the Council of Rostov-on-Don State Medical Inst, of his dissertation entitled: "Materials for the Study of Malaria in the Southeastern RSFSR."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 12, 28 May 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Uncl. JPRS/NY-537

POKROVSKIY, S.N.

Presence of mosquitoes in the Anapa area. Med.paraz.i paraz.bol. no.1:42 Ja-Mr '54. (MLRA 7:3)
(Anapa District--Mosquitoes) (Mosquitoes--Anapa District)

POKROVSKIY, S. N., Prof., LEYZERMAN, L. I., Cand. of Med Sci;MITARNOVSKIY, V. M. Cand of Med Sci; REMENNIKOVA, V. M., Cand of Med Sci; KASIMOV, A. A., BERD'YEV, Kh. B..

"Plans for liquidating malaria during the Five-Year Plan" a paper read at the All-Union Conference for Combating Parasitic Diseases held in Moscow, 10-11 Apr. 1956.

SO: Sum 1239

POKROVSKIY, S.N.

Leonid Iosifovich Leizerman; on his 60th birthday. Med.paraz. i paraz.bol. 25 no.3:274 Jl-S '56. (MLRA 9:10)
(LEIZERMAN, LEONID IOSIFOVICH, 1896-)

POKROVSKIY, S.N.

POKROVSKIY, S.N., prof.

Role of hydraulic engineer in public health. Med.parez. i parez. bol. 26 no.4:439-440 Jl-Ag '57. (MIRA 10:11)
(PUBLIC HEALTH,
funct. of engineers of hydrotechnology (Rus))
(WATER SUPPLY,
pub. health funct. of engineers fo hydrotechnology (Rus))

Pokrovskiy, S. N.

POKROVSKIY, S.N.; LEYZERMAN, L.I.

Malaria control in the R.S.F.S.R. following World War II; 1946-1956. Med.paraz. i paraz.bol. 26 no.5:575-578 S-O '57. (MIRA 11:2)

1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR.
(MOSQUITOES,
eradication in Russia (Rus))

POKI'OVSKIY, S.N.; DOTSENKO, A.A.

"Reservoir construction and problems of malaria." Reviewed by S.N.Pokrovskii, A.A.Dotsenko. Med.paraz. i parez.bol. 27 no.1: 112-114 Ja-F '58. (MIRA 11:4)
(MALARIA)

IMYZERMAN, L.I., POKROVSKIY, S.N.

Krasnoyarsk interprovince conference on diseases with natural endemic areas. Med.paraz. i paraz. bol. 27 no.3:381-382 My-Je '58 (MIRA 11:7)
(COMMUNICABLE DISEASES)

POKROVSKIY, S.N., TARABUKHIN, I.A., BOYKO, N.F., SEMENOVA, A.S.

Malaria in the Yakut A.S.S.R., and the methods for its eradication [with summary in English]. Med.paraz. i paraz.bol. 27 no.3:275-277 My-Je '58 (MIRA 11:7)

1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (dir. instituta - prof. S.N. Pokrovskiy) i Respublikanskoy sanitarno-epidemiologicheskoy stantsii Ministerstva zdravookhraneniya Yakutskoy ASSR (glavnyy vrach F.I. Savchenko).
(MALARIA, prevention and control.
in Russia (Rus))

DERBENEVA-UKHOVA, V.P.; BUSLAYEV, M.A.; KALMYKOV, Ye.S.; KON', Ya.S.; MARUASHVILI, G.M.; MASLOV, A.V.; NETSKIY, G.I.; PIRUMOV, Kh.N.; POKROVSKIY, S.N.; SKLIVANOV, K.D.

Problems of the sanitary-epidemiological service in the control of parasitic diseases in various zones of the U.S.S.R. Med. paraz. i paraz.bol. 28 no.3:287-294 My-Je '59. (MIRA 12:9)
(PARASITIC DISEASES, prev. & control, in Russia (Rus))

POKROVSKIY, S.N.

Possibility of utilizing sea water in encylostomiasis control.
Med.paraz.i paraz.bol. 29 no.2:235 '60. (MIRA 13:12)
(HOOKWORM) (SEA WATER)

POKROVSKIY, S.N.; LEIZERMAN, L.I.; MITARNOVSKIY, V.M.

Course of malaria control in the R.S.F.S.R. during 1959.
Med.paraz.i paraz.bol. 29 no.5:516-521 S-O '60. (MIRA 13:12)

1. Iz Respublikanskogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR (dir. instituta - prof. S.N. Pokrovskiy).
(MALARIA)

POKROVSKIY, S.N.; GORYACHEVA, L.K.; DARSANIYA, G.I.; OLENICHEVA, M.V.

Ancylostomiasis and ways of eliminating it along the Black Sea coast of the Krasnodar region. Med.paraz.i paraz.bol. no.3:268-271. '61. (MIRA 14:9)

1. Iz Respublikanskogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR v Rostove-na-Dony (dir. instituta - prof. S.N. Pokrovskiy, zav. gel'mintologicheskim otdelom L.K. Goryacheva).
(KRASNODAR TERRITORY--HOOKWORMS)

POKROVSKIY, S.N.; KANCHAVELI, G.I.

Malaria in Togo. Med.paraz.i paraz.bol. no.5:608-612 '61.
(MIRA 14:10)

(TOGO--MALARIA)

L 31816-66

ACC NR: AP6021657 SOURCE CODE: UR/0104/66/000/004/0056/0060

AUTHOR: Bezrukikh, P. P. (Engineer); Pokrovskiy, S. N. (Engineer)

ORG: none

TITLE: Experience in adjusting ion excitation at the Bratskaya Hydroelectric Station

SOURCE: Elektricheskiye stantsii, no. 4, 1966, 56-60

TOPIC TAGS: ion, hydroelectric power plant, electric generator, electronic circuit, electric current, ion energy, power generating station

ABSTRACT: A report on a series of investigations conducted at the Bratskaya Hydroelectric station, designed to determine the actual angles of control, commutation angles, and to construct diagrams of current and voltage of the principle operating states of a generator operating with two groups of ion-excitation valves, connected to the rotor of the generator with a three-phase bridge circuit. The source of power is a secondary generator on the same shaft with the main generator. Operating states of the valves are described. Oscillograms are presented showing the voltage and current curves for the three main operating states of the generator. Orig. art. has: 8 figures. [JPRS]

SUB CODE: 10, 09, 20 / SUBM DATE: none

Card 1/1 UDC: 621.3.013.8:621.313.322-82

L 34740-66

ACC NR: AP6025233 SOURCE CODE: UR/0104/66/000/006/0043/0048

AUTHOR: Bezrukikh, P. P. (Engineer); Pokrovskiy, S. N. (Engineer)

ORG: none

TITLE: Tests of the ion excitation system in the hydroelectric generators at the Bratsk hydroelectric power station

SOURCE: Elektricheskiye stantsii, no. 6, 1966, 43-48

TOPIC TAGS: hydroelectric power plant, electric generator, magnetization, turbine

ABSTRACT: The paper is a report on the adjustment and testing of 16 units for ion excitation of the hydroelectric generators at the Bratsk Hydroelectric Station (ARMNV-1000Kh6M mercury converters). The following table gives times for quenching the rotor field of the main generator and magnitization currents for the static phase generator in the acceleration group for three sets of operating conditions.

Generator Number	No - load I_d = 800a		Nominal conditions I_d = 1600a	Accelerated I_d = 3200a after limiting	
	Time for quenching the rotor field of the main generator, sec	Magnetization current for the static phase regulator in the acceleration group ma		Time for quenching the rotor field of the main generator, sec	Magnetization current for the static phase regulator, in the acceleration group ma
					at start of acceleration / after limiting

Card 1/3

0916 0600

L 34740-66

ACC NR: AP6025233

1	0.7	280	1.14	-	1 860	700
2	0.7	250	1.12	-	-	-
3	0.66	310	0.82	-	1 840	1 000
4	0.66	260	0.82	-	1 400	-
5	0.68	310	1.08	-	1 840	900
6	0.74	230	1.20	1.62	1 900	870
9	0.88	300	1.12	1.53	1 780	740
10	0.74	330	1.14	1.76	1 920	780
11	0.66	320	1.0	1.26	1 920	780
12	0.64	290	1.02	1.68	1 820	770
13	0.67	-	0.88	1.13	-	-
14	0.73	320	1.13	1.8	2 000	900
15	0.70	360	1.06	1.56	1 800	760
16	0.62	410	1.06	1.46	1 960	930
17	0.56	-	0.90	1.16	1 600	830
18	0.60	490	0.91	-	1 950	960

The wide variation in quenching times is due to the variations in adjustment of the regulators for excitation of the auxiliary generators, differences in the idlying speed of the turbines, temperature variation during adjustment of the rotors and difference in rotor current. The changes made in the system on the basis of the test data are discussed. It was found that manual control of the

Card 2/3

Card 3/3 DLG

POKROVSKIY, S.N.; LEYZERMAN, L.I.; IVANOVA, L.M.; PIVEN, G.G.

Brief news. Med. paraz. i paraz. bol. 32 no.1:124-125 Ja-F'63.
(MIRA 16:10)

POKROVSKIY, S.N.; LEYZERMAN, L.I.; STETSENKOV, P.A.

First scientific and practical conference on toxoplasmosis at the Institute of Medical Parasitology of the Ministry of Health of the R.S.F.S.R. Med. paraz. i paraz. bol. 32 no.6:755-756 N-D '63 (MIRA 18:1)

AVROV, P.Ya.; AYTALIYEV, Zh. A.; AUEZOV, M.O.; AKHMEDSAFIN, U.M.; BATISHCHEV-TARASOV, S.D.; BAZANOVA, N.U.; BAISHEV, S.B.; BAYKONUROV, A.B.; BEKTUROV, A.B.; BOGATYREV, A.S.; BOK, I.I.; BORUKAYEV, B.A.; BURLICHENKO, N.L.; BYKOVA, M.S.; ZHILINSKIY, G.B.; ZYKOV, D.A.; IVANKIN, P.F.; KAZANLI, D.N.; KAYUPOV, A.K.; KENESBAYEV, S.K.; KOLOTILIN, N.F.; KUNAYEV, D.A.; KUSHEV, G.L.; L[illegible], V.V.; MASHANOV, O.Zh.; MEDOYEV, G.TS.; MONICH, V.K.; MUKANOV, S.; MUSREPOV, G.; MUKHAMEDZHANOV, S.M.; PARSHIN, A.V.; POKROVSKIY, S.N.; POLOSUKHIN, A.P.; RUSAKOV, M.P.; SERGIYEV, N.G.; SAYFULLIN, S.Sh.; TAZHIBAYEV, P.T.; FESENKOV, V.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; CHOKIN, Sh.Ch.; CHOLPANKULOV, T.Ch.

Sixtieth birthday of Academician Kanysh Imantaevich Satpaev. Vest. AN Kazakh. SSR 15 no.4:58-61 Ap '59. (MIRA 12:7)
(Satpaev, Kanysh Imantaevich, 1899-)

SAPARGALIYEV, G.S., kand. yurid.nauk;PAL'GOV,N.N., akad.; BOGATYREV, A.S.; AFANAS'YEV, A.V., prof.; BYKOV, B.A.; SHAKHMATOV, V.F., kand. istor. nauk; POKROVSKIY, S.N., akad.; SAVOS'KO, V.K., kand. istor. nauk; NUSUPBEKOV, A.N., kand. istor. nauk; BAISHEV, S.B., akad.; GOROKHOVODATSKIY, I.S., kand. istor. nauk; AKHMETOV, A., kand. istor. nauk; RAKHIMOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor ekonom. nauk; BOROVSKIY, V.A., kand. ekonom. nauk; SYDYKOV, A.S., kand. pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.; KANAPIN, A.K., kand. istor. nauk; BELENOV, M.D., kand. ekonom. nauk; KARYNBAYEV, S.R., kand. med. nauk; AKHMETOV, K.A.,; SMIRNOVA, N.S., doktor filolog.nauk; SIL'CHENKO, M.S., doktor filolog. nauk; YERZAKOVICH, B.G., kand. iskusstvovedcheskikh nauk; RYBAKOVA, N.; MUKHTAROV, A.I.; BOGATENKOVA, L.I.; KUNDAKBAYEV, B.; SIRANOV, K.S.; SHVYDKO, Z.A., red.; MAMTSOVA, L.B., red.; ZLOBIN, M.V., tekhn. red.

[The Soviet Kazakh Socialist Republic] Kazakhskaia Sovetskaia Sotsialisticheskaia Respublika. Alma-Ata, Kazakhskoe gos. izd-vo, 1960. 477 p. (MIRA 14:6)

1. Akademiya nauk Kaz.SSR (for Pal'gov, Pokrovskiy, Baishev)
2. Chlen-korrespondent Akademii nauk KazSSR (for Bykov, Smirnova, Sil'chenko)

(Kazakhstan)

SATPAYEV, K.I., glavnyy red.; CHOKIN, Sh.Ch., otv.red.; BAZANOVA, N.U., red.; BEKTUROV, A.B., red.; POKROVSKIY, S.N., red.; POLOSUKHIN, A.P., red.; TAKIBAYEV, Zh.S., red.; ASAINOV, M.A., red.; POGOZHEV, A.S., red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Science in Soviet Kazakhstan, 1920-1960] Nauka Sovetskogo Kazakhstana, 1920-1960. Alma-Ata, 1960. 688 p.
(MIRA 13:12)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata.
(Kazakhstan--Science)

POKROVSKIY, S.N., akademik

The 22d Congress of the CPSU and the development of social sciences at the Academy of Sciences of the Kazakh S.S.R. Vest. AN Kazakh. SSR 17 no.12:63-72 D '61. (MIRA 15:3)

1. Akademik-sekretar' Otdeleniya obshchestvennykh nauk AN Kazakhskoy SSR.
(Kazakhstan--Social science research)

POKROVSKIY, Sergey Vasil'yevich, kand.tekhn.nauk, dotsent

Practical techniques in designing static frequency doublers. Izv. vys. ucheb. zav.; elektromekh. 6 no.6:714-722 '63. (MIRA 16:9)

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy i ustanovok Dal'nevostochnogo politekhnicheskogo instituta.
(Electric current transformers)

POKROVSKIY, Sergey Viktorovich, 1974-

[Nature calendar] Kalendar' prirody. Izd. 4, ispr. Moskva, Gos. Ucheb. -pedagog. izd-vo, 1953. 218 p. (MLRA 8:5)
(Nature study)

POKROVSKIY, S.V.

Problem concerning the transmission of electric power from the primary winding of a static frequency doubler to the second winding. Izv. vys. ucheb. zav.; elektromekh. 5 no.2:224-228 '62. (MIRA 15:3)
(Electric transformers) (Frequency multipliers)

POKROVSKIY, S. V.

Okhotniki na mamontov [Mammoth hunters]. Moskva, Detgiz, 1953. 160 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

POKROVSKIY, S. V.

Kalendar' prirody (Nature calendar). Izd. 4-e, ispr. Moskva, Uchpedgiz, 1953. 219 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

POKROVSKIY, Sergey Viktorovich; NEKHLYUDOVA, A.S., redaktor; PETROVA, M.D., tekhnicheskiy redaktor.

[Calendar of nature] Kalendar' prirody. Izd. 5-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 229 p. (Phenology) (MLRA 9:6)

161-[illegible]

AUTHOR: [illegible], S[illegible], Candidate [illegible] Sciences, [illegible] of [illegible] at the [Soviet] Far-East Institute (Dal'nevostochnyy [illegible])

TITLE: [illegible] of [illegible] (K voprosu o raschete [illegible])

PERIODICAL: Nauchnyye [illegible] vysshey shkoly, Elektromekhanika i avtomatika, 1958, Nr 1, p. [illegible] (USSR)

ABSTRACT: The graphical method by V. P. Vologdin and [illegible] Spitsyn is too long and too complicated. At present it is without practical importance. Another method is recommended. The frequency doubler consists of two equal transformers with three windings: a primary, a secondary and a bias winding. The bias magnetisation of the two cores is opposed to each other. The total fluxes in the two cores, Φ_a and Φ_b result from superimposing the induction of the primary winding on the bias. The secondary windings are connected as to be induced by the flux Φ_a and Φ_b. The bias results in a distortion of the

Card 1/4

On the Problem of Computing Methods of Static Frequency Doublers

sinusoidal wave form, thus creating higher harmonics. In order to compute the [illegible] with a doubled frequency, the function $(\Phi_a - \Phi_b) = f(\omega t)$ must be differentiated and the result must be entered into equation (2). (2) incorporates the secondary voltage and its 2. and 4. higher harmonics. The curve families $(B_a + B_b)_m = f(H_{1m})$, $(B_a - B_b) = f(H_{1m})$ and $B_a - B_b = f(\omega t)$ are constructed, where B_a and B_b denote the [illegible] inductions in the two cores and H_{1m} the bias magnetization, which is varied as a parameter in these curves. The frequency doubler can be regarded as consisting of two parts, which are linked by the curve families $(B_a - B_b) = f(H_{1m})$. If only [illegible] were investigated, the construction of the curve families $U_2 f_o = f(H_=)$ at varying $(B_a + B_b)_m$ would be sufficient. $U_2 f_o = f(H_=)$ denotes the secondary output voltage. When the frequency doubler feeds into a secondary circuit, a double frequency current occurs in the secondary winding, causing a distortion of the magnetomotoric forces in the cores. The sum of the magnetizing forces (caused by the load and by the bias magnetization current) is always equal, however, in the two cores in direction opposite to the primary

Card 2/4

On the Problem of Computing Methods of Static Frequency Doublers

induction. If the sum of the bias magnetization and the secondary magnetization is assumed to be the total magnetization, the operation of the frequency doubler at an arbitrary load can be regarded as an idling operation with only an alternating magnetization. The function $U_2f = f(I_2f)$, U_2f denoting the secondary output voltage and I_2f the output current, which represents the output characteristic leads to the consideration of the function $E_2f = f(I_2f)$, E_2f denoting the secondary EMF. The most important feature in computing the output characteristic is considered to be a variation of the second harmonic of the output current and its phase as to attempt to satisfy equations (25) and (26). In the last section the choice of the dimensions of a frequency doubler is discussed. There are 15 figures, 1 table, and 4 references, which are Soviet.

Card 3/4

V/ 161-58-1-10/33

On the Problem of Computing Methods of Static Frequency Doublers

: The publication of this article was recommended by the Chair of Electrical Machines at the Moscow Institute of Power Engineering (Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta).

ASSOCIATION: Kafedra elektricheskikh mashin i avtomatiki Dal'nevostochnogo instituta (Chair of Electrical Machines and of Automation at the [Soviet] Far-East Institute)

SUBMITTED: January 6, 1958

Card 4/4

POKROVSKIY, S.V., Cand Tech Sci -- (diss) "On the problem of a method for designing statistical frequency duplicators." Mos, 1959, 12 pp (Min of Higher Education USSR. Mos Order of Lenin Power Engineering Inst) 150 copies (KL, 34-59, 114)

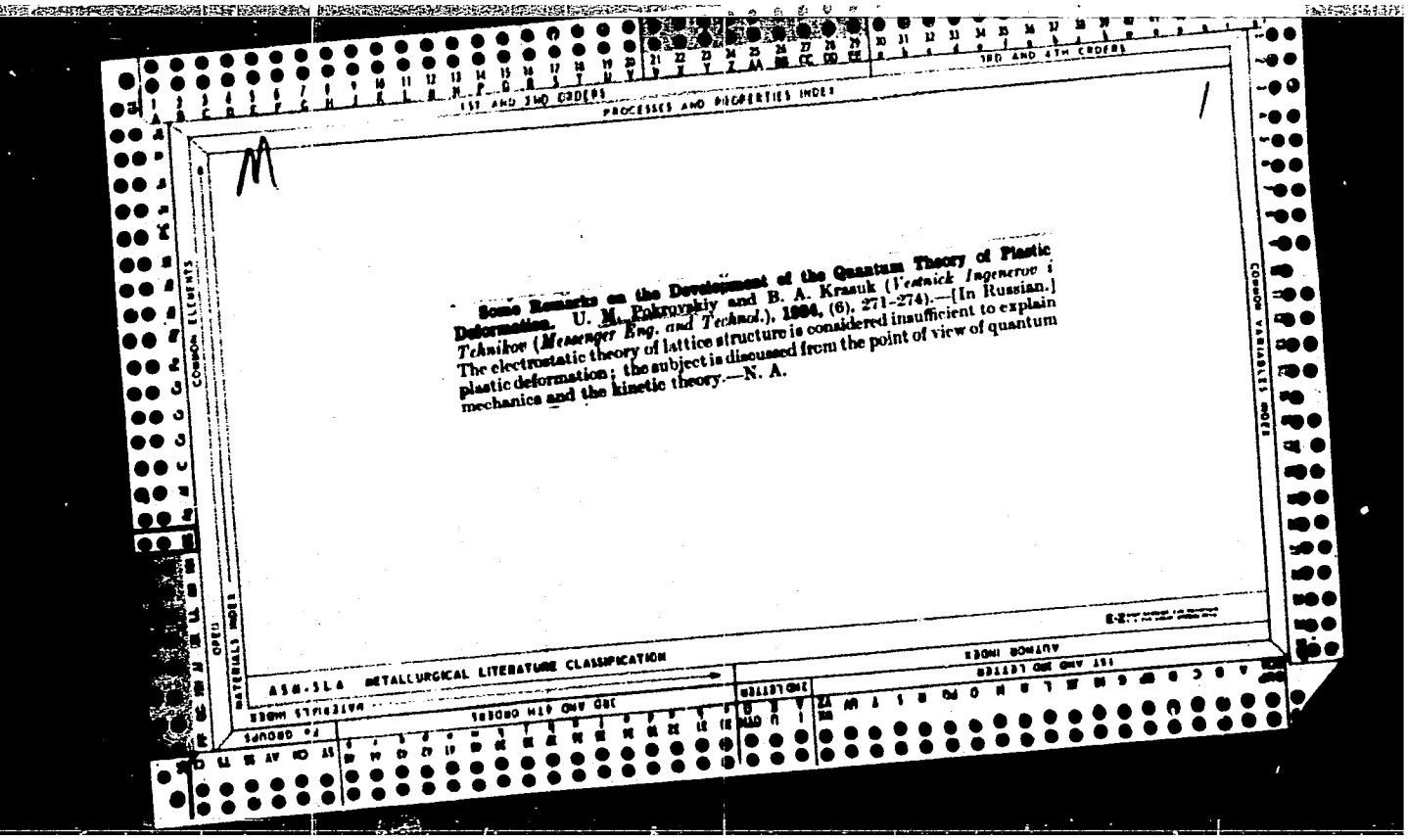
POKROVSKIY, S.V., kand.tekhn.nauk

Balancing of the armature windings of collector-type machinery. Vest. elektroprom. 32 no.12:38-39 D '61. (MIRA 14:12)
(Electric machinery--Windings)

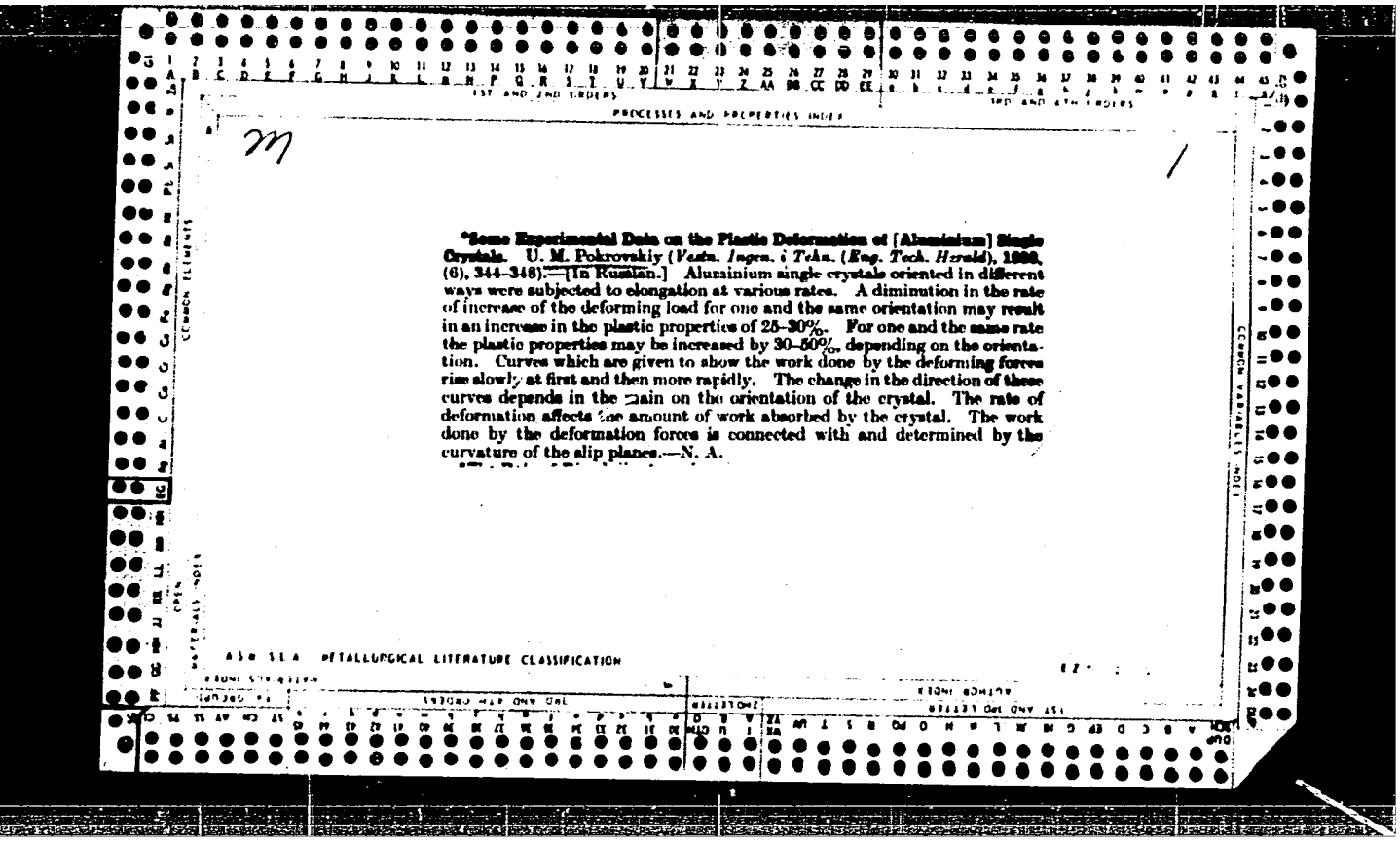
POKROVSKIY, S.V., inzh.

Excitation controller of an asynchronized synchronous generator of the Iovsk Hydroelectric Power Station. Elektrotekhnika 36 no.12:19-20 D '65.

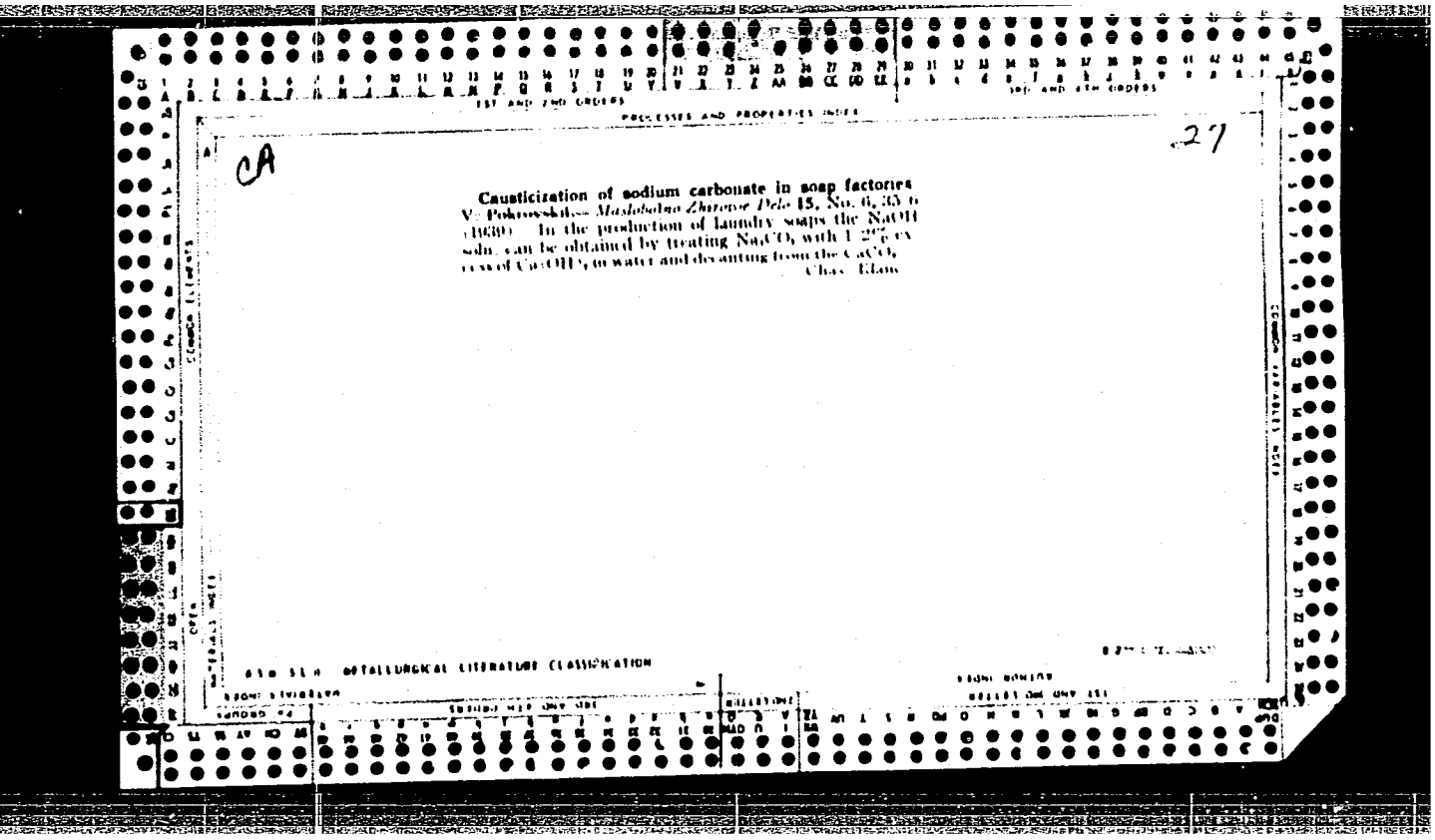
(MIRA 19:1)



Some Remarks on the Development of the Quantum Theory of Plastic Deformation. U. M. Fokruvskiy and B. A. Krasuk (*Vestnick Ingenerov i Tekhnikov* (*Messenger Eng. and Tech.*), **1954**, (6), 271–274).—[In Russian.] The electrostatic theory of lattice structure is considered insufficient to explain plastic deformation; the subject is discussed from the point of view of quantum mechanics and the kinetic theory.—N. A.



***Some Experimental Data on the Plastic Deformation of [Aluminium] Single Crystals.** U. M. Pokrovskiy (*Vestn. Ingen. i Tekn.* (*Eng. Tech. Herald*), **1939**, (6), 344–348).—[In Russian.] Aluminium single crystals oriented in different ways were subjected to elongation at various rates. A diminution in the rate of increase of the deforming load for one and the same orientation may result in an increase in the plastic properties of 25–30%. For one and the same rate the plastic properties may be increased by 30–50%, depending on the orientation. Curves which are given to show the work done by the deforming forces rise slowly at first and then more rapidly. The change in the direction of these curves depends in the main on the orientation of the crystal. The rate of deformation affects the amount of work absorbed by the crystal. The work done by the deformation forces is connected with and determined by the curvature of the slip planes.—N. A.



CA

27

Causticization of sodium carbonate in soap factories V. Pokrovskii. *Maslobolno Zhirovoe Dele* 15, No. 6, 35 to (1939). In the production of laundry soaps the NaOH soln. can be obtained by treating Na_2CO_3 with 1.2% ex cess of $Ca(OH)_2$ in water and decanting from the $CaCO_3$ Chas. Blanc

LEVENBERG, I.; POKROVSKIY, V.; DE-HOU, Rhen; TARASOVA, L.; YUTLANDOV, I.

The (p, pn) and (p,n) reactions on Sc^{45} induced by high-energy protons, Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1963. 15 p.

ACCESSION NR: AP4031174 S/0056/64/046/004/1475/1476

AUTHOR: Jen, Te-hou; Levenberg, I.; Pokrovskiy, V.; Tarasova, L.; Yutlandov, I.

TITLE: The reactions (p, pn) and (p, n) on Sc-45 under the influence of high-energy protons.

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1475-1476

TOPIC TAGS: (p, pn) reaction, (p, n) reaction, scandium 45, high energy protons, scandium isomer, reaction cross section, nuclear structure, np scattering cross section, differential cross section

ABSTRACT: This is a continuation of earlier experiments (ZhETF v. 43, 1619, 1963) on radiochemical studies of simple nuclear reactions with bombarding proton energies close to several hundred MeV. The results are listed in the table, which shows for comparison similar results on calcium. The new data confirm the assumption made in the first study that the direct knock-on mechanism begins to predominate in the (p, pn) reaction already at energies close to several hundred MeV. Calculation of the ratio of the cross sections for isomer pro-

Card 1/2

ACCESSION NR: AP4031174

duction in this reaction offers further proof of this hypothesis. It is concluded that only neutrons from the uppermost completely or partially filled level participate in the (p, n) reaction, which comprises quasielastic scattering of the proton on the neutron of thenucleus, which carries away most of the energy. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 10Jul63 DATE ACQ: 07May64 ENCL: 02

SUB CODE: PH NO REF SOV: 001 OTHER: 003

Card 2/2

LEVENBERG, I.; POKROVSKIY, V.; TARASOVA, L.; YUTLANDOV, I.

The (p, pn) and (p, n) reactions on Sc^{45} induced by high-energy protons. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1961. 8 p.

(No subject heading)

LEVENBERG, I.; POKROVSKIY, V.; YUTLANDOV, I.

Simple nuclear reactions on Ca^{48} induced by high-energy protons. Zhur. eksp. i teor. fiz. 43 no.5:1619-1624 N '62. (MIRA 15:12)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Calcium—Isotopes) (Nuclear reactions) (Protons)

GERASIMOV, V.; POKROVSKIY, V.

"Technique of investigating water-tapping wells in the Volga-Ural region" by I.K.Zerchanikova. Reviewed by V.Gerasimov, V. Pokrovskii. Geol.nefti i gaza 6 no.8:60-62 Ag '62.
(MIRA 15:9)
(Volga-Ural region--Oil field brines) (Zerchanikova, I.K.)

S/056/62/043/005/009/058
B102/B104

AUTHORS: Levenberg, I., Pokrovskiy, V., Yutlandov, I.

TITLE: Simple Ca^{48} nuclear reactions induced by high-energy protons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1619-1624

TEXT: To help explain why the measured cross sections of simple nuclear reactions on complex nuclei differ so much from those calculated by Serber's theory those of the (p,pn), (p,2n) and (p,n) reactions on $_{20}Ca^{48}$ were measured. The target, a $CaCO_3$ tablet 15 · 5 · 1.5 mm^3 (natural isotope composition), was bombarded by protons of 120 - 660 Mev from the synchrocyclotron of the OIYaI for 15 - 20 min. It was enclosed by three aluminum foils (20 μ) so that the proton beam intensity could be measured from the yield of the $Al^{27}(p,3pn)Na^{24}$ reactions occurring in the jacket. The fractions of the final reaction products (Na^{24}, Ca^{47}, Sc^{47}, Sc^{48}) were separated by chemical means and their activity was measured with a NaI(Tl)

S/056/62/043/005/009/058
B102/B104

Simple Ca^{48} nuclear reactions ...

scintillation γ-spectrometer and a 128-channel AMA-3c (AMA-3s) analyzer. Secondary neutrons were found to contribute only negligibly to the reactions examined. The results from 2 - 3 series of measurements with a root-mean-square error of about 15% are given in Table 2. On comparing these cross sections with those of heavier nuclei, the ratio $\sigma_{p,2n}/\sigma_{p,n}$ was found to be almost independent of E_p (for $E_p \gtrsim 100$ Mev) and highly dependent on A, whereas the ratio $\sigma_{p,pn}/\sigma_{p,n}$ did not depend on A but increased rapidly with E_p. Conclusions: The (p,n) and (p,2n) reactions are direct interactions between protons and peripheral nuclear neutrons. The mechanism of (p,n) and that of the first stage of (p,2n) are identical. Not less than 95% of the (p,pn) reactions are knock-out reactions, not only for $E_p > 1$ Bev (Phys. Rev. 119, 324, 1960) but also at proton energies of the order of 100 Mev. There are 3 figures and 2 tables.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: June 6, 1962

Card 2/4

S/056/62/043/005/009/058
B102/B104

Simple Ca^{48} nuclear reactions ...

Table 2. Reaction cross sections in millibarns.

Fig. 1. Excitation curves for Ca^{48}.

	$E_p = 12$	200	300	400	500	600	660
(p, pn)	118±2	106±10	106±4	101±4	104±1	110±8	110±2
$(p, 2n)$	20,3±1,6	18,6±0,6	11,0±0,1	8,7±0,3	8,7±0,1	6,2±1,0	5,7±0,3
(p, n)	7,8±0,3	4,7±1,2	4,1±0,3	3,6±0,1	3,9±0,2	2,2±0,2	2,6±0,1
$Al^{27}(p, 3pn)$	10,2	9,1	11,0	11,3	11,1	11,0	10,9

Table 2

Card 3/4

Simple Ca^{48} nuclear reactions ...

S/056/62/043/005/009/058
B102/B104

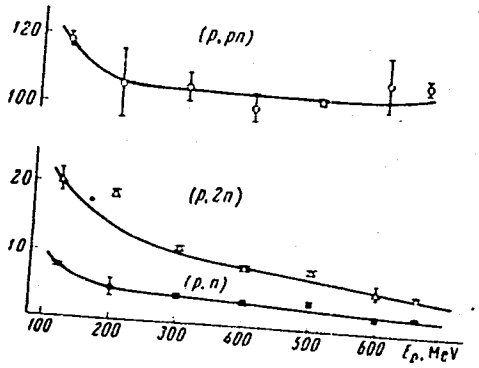


Fig. 1

Card 4/4

POKROVSKIY, V., inzh.; PROSKURYAKOV, Ye., inzh.

Hydraulic mechanization in open pit mines. Sov.shakht. 10 no.12:12 D '61. (MIRA 14:12)
(Chelyabinsk Basin--Hydraulic mining)

1. POKROVSKIY, V.
2. USSR (600)
4. Bee Culture
7. Letter Box. Pchelovodstvo. 29. no. 11. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

POKROVSKIY, V., inzhener; RODIONOV, B., inzhener.

Interprovincial repair organizations are needed. Sots. trud 2:136 Jl '57. (MLRA 10:9)

1. Penzenskii spirtotrest.
(Repairing)