GUZOV, S. G.

USSR/Chemistry - Acetylene
Engineering - Acetylene

Sep 49

"The New Standard for Dissolved Acetylene," I. I. Strizhevskiy, and Chem Sci, S. G. Guzov, Engr, VNIIAVTOGEN, 2½ pp

"Avtogen Delo" No 9

Institute has worked out new specification for "acetylene, dissolved, commercial" to replace GSR 17421-39. Explains reasons for alterations and additions to regulations, with two tables, and three diagrams.

PA 1/50T13

GUZOV, G. S.

EA 1417W

USSR/Metals - Flame Cutting, Equipment Jun 50

"Equipment for Oxygen-Flux Cutting of Chromium and Chrome-Nickel Steels," S. G. Guzov, O. Sh. Spektor, Engineers, 4 pp

"Avtogen Delo" No 6

Suggests method for cutting stainless and heat-resistant steels. Flux in powdery form is introduced into stream of cutting oxygen and, being burned, liberates great amount of heat. Overheated oxide particles liquefy slag which, running down, exposes base metal, thus creating conditions for continuous process. Describes equipment and

16LT97

USSR/Metals - Flame Cutting, Equipment (Contd) Jun 50

recommends flux FKh-1, basic component of which is granular iron powder.

16LT97

USSR/Metals - Gas Cutting Dec 50

"Improvement and Mechanization of Oxy-Flux Cutting," S. G. Guzov, O. Sh. Spektor, Engineers, VNIIAVTOGEN (All-Union Sci Res Inst of Welding and Cutting of Metals)

"Avtogen Delo" No 12, pp 24-27

Describes modified hand cutting torch which, increasing oxygen feed without decreasing feed of flux, raises cutting speed 1.5-2 times. Modification is simple and consists of additional injector and regulating valve. With aid of this type torch and specially designed new flux feeder, any stationary

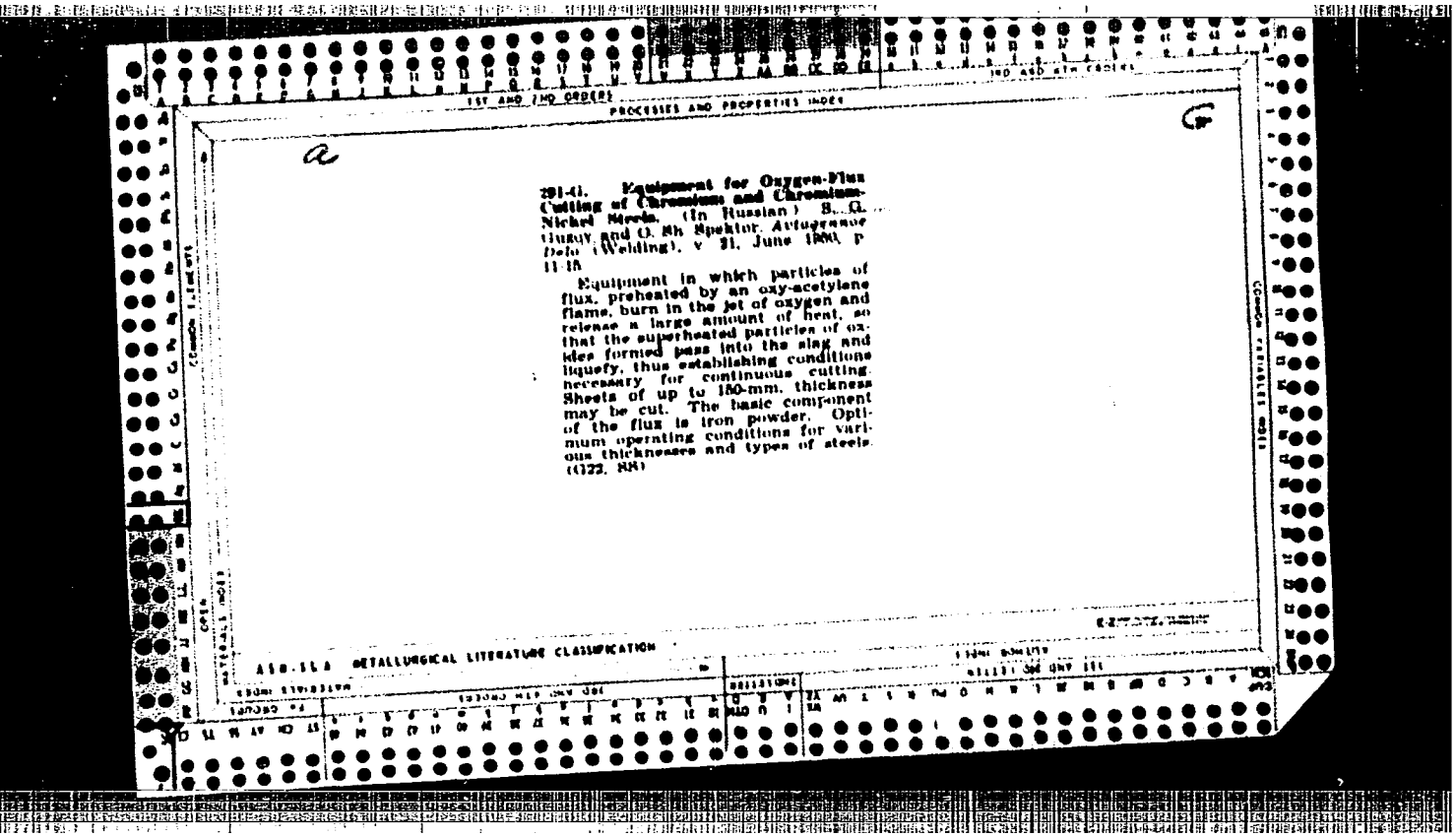
181T76

USSR/Metals - Gas Cutting (Contd) Dec 50

or portable machine for oxygen cutting may be easily converted to oxy-flux cutting and reconverted to ordinary cutting.

181T76

GUZOV S. G.

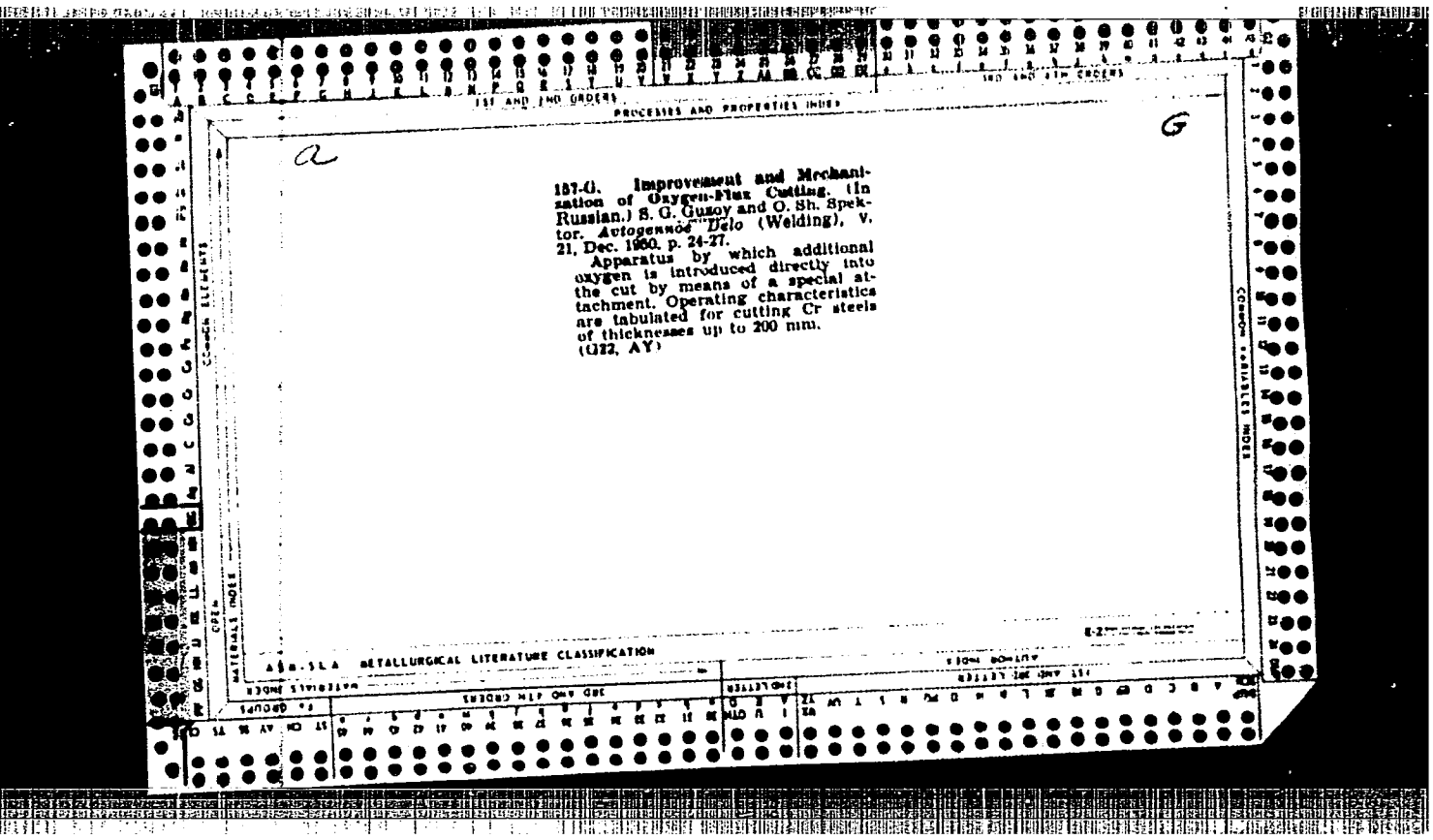


PROCESSES AND PROPERTIES INDEX

291-61. **Equipment for Oxygen-Flux Cutting of Chromium and Chromium-Nickel Steels.** (In Russian.) S. G. Gurov and O. Sh. Spektor. *Avtogennoe Delo* (Welding), v 31, June 1960, p 11-15

Equipment in which particles of flux, preheated by an oxy-acetylene flame, burn in the jet of oxygen and release a large amount of heat, so that the superheated particles of oxides formed pass into the slag and liquefy, thus establishing conditions necessary for continuous cutting. Sheets of up to 150-mm. thickness may be cut. The basic component of the flux is iron powder. Optimum operating conditions for various thicknesses and types of steels. (1122, RR)

A10-51A METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX

a

G

187-G. **Improvement and Mechanization of Oxygen-Flux Cutting.** (In Russian.) S. G. Gusov and O. Sh. Spektor. *Avtogennoe Delo* (Welding), v. 21, Dec. 1950. p. 24-27.

Apparatus by which additional oxygen is introduced directly into the cut by means of a special attachment. Operating characteristics are tabulated for cutting Cr steels of thicknesses up to 200 mm. (U12, AY)

A§m-SLA METALLURGICAL LITERATURE CLASSIFICATION

GUSOV, S. G.

(Safety engineering in the processing of metals with a gas torch). Moskva, Mashgiz, 1951. USSR (600) Technology.

GUZOV, S. G.

183T54

USSR/Engineering - Flame Cutting Jan 51

"Oxygen-Flux Cutting of Cast Iron," S. G. Guzov, O. Sh. Spektor, Engineers, VNI Avtogen

"Avtogen Delo" No 1, pp 16-18

Procedure established for cutting cast-iron products of large cross section. Method is based on possibility of overheating and diluting slags, formed in kerf, with powdered flux delivered continuously to cut. Among other expts, cast-iron chunk 360 mm in diam was cut in 2 passes

183T54

USSR/Engineering - Flame Cutting (Contd) Jan 51

with turn, using hand cutting torch with FCh-1 flux. Max depth of continuous cut for this torch is 280-300 mm at cutting-oxygen pressure Ca 10 kg/sq cm.

183T54

GUZOV, S. G.

USSR/Engineering - Welding, Flame Cutting Sep 51

"Surface Oxygen-Flux Cutting of High-Chrome Steels," S. G. Guzov, O. Sh. Spector, Engrs, VNII-avtogen

"Avtogen Delo" No 9, pp 19-22

Describes cutting torch RPKF-2 which, in addn to ordinary injector for supplying acetylene, has in its head injecting device fed with oxygen-flux mixt and addnl cutting oxygen. In surface prepn of chrome and chrome-nickel ingots for rolling, surface oxygen-flux cutting has production capacity at least 3 times that of elec-arc cleaning.

202T38

G - Secondary mechanical working.

Met. Rev.
1952

86-G. Discussion of Cutting With Low Pressure Oxygen. (In Russian.) S. V. Begun and S. G. Gusov. *Avtogennoe Delo*, v. 22, Apr. 1951, pp. 28-29.
Above authors discuss separately two papers appearing in *Autogennoe Delo*, v. 21, May and June, 1950. See items 281-G and 291-G, 1950.
(GZZ, ST)

GUZOV, S. G. and STRIZHEVSKIY, I. I.

Comments on S. G. Guzov's and I. I. Strizhevskiy's book "Safety technique in gas welding and cutting of metals. Eng. D. P. Lavrov. Avtog. delo 23 no. 7, 1952. USSR (600)

GUZOV, S. G.

USSR/Metallurgy - Flame Cutting, Sep 52
Processes, Equipment

"High-Speed Severing Oxygen Cutting," Docent A. N. Shashkov, S. G. Guzov, Engr, Stalin Prize Laureates, VNII avtogen (All-Union Sci Res Inst of Welding and Cutting of Metals)

"Avtogen Delo" No 9, pp 1-4

Presents method in which intensification of cutting is achieved by decreasing angle of attack of oxygen stream to 30-45° depending on thickness of metal to be cut. Discusses use of special tips with 2 channels for oxygen cutting, resulting in obtaining cuts of quality superior to that produced by ordinary method. Describes PLS-1 portable cutting machine with max speeds in 400-2,150 mm/min range and outlines its application. Tabulates speeds and requirements of oxygen and acetylene for cutting steels 3-30 mm thick.

232T75

GUZOV, S.G.

Calculation of gas flow from circular openings (nozzles) as applicable to the flame machining of metals. Trudy VNIIAvtogen no.1:43-77 '53. (MIRA 12:10)
(Gas flow)

GUZOV, S. G.

USSR.

Determining gas flow from circular opening (nozzle) [illegible] applied to gaseous flame treatment of metals. S. G. Guzov. *Avtogennoe Delo* 24, No. 4, 12–16(1953). [illegible] given based on the theory of adiabatic expansion of gases leaving cylindrical nozzles involving all necessary and possible substitutions, simplifications, and calcns. supplemented by tables and graphs necessary for calcns. The final formula is given as $V = \mu B d^2 (p + 1)$, where the coeff. μ is the coeff. of expenditure, B is the phys. properties of the gas passing through the nozzle, θ is temp., ω the ratio between abs. pressures before and after the nozzle and the adiabate of the gas, d diam. of the nozzle, and p the pressure of the gas. Tables for ω and ω present corresponding values, while B and θ are expressed by corresponding formulas.

J. D. Gal'

GLIZMANENKO, D.L.; YEVSEYEV, G.B.; GUZOV, S.G., inzhener retsenzent; SHOKHOROV, M.Kh., kandidat tekhnicheskikh nauk, redaktor; POPOVA, S.M., tekhnicheskiy redaktor.

[Gas welding and metalcutting; textbook for welding students in machine-construction technical schools] Gazovaia svarka i rezka metallov; uchebnoe posobie dlia studentov svarochnoi spetsial'nosti mashinostroitel'nykh vtuzov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 532 p.(MLRA 8:2)
(Oxyacetylene welding and cutting)

GUZOV, S.G.; SPEKTOR, O.Sh.

Investigating the process of thick steel severing by low pressure oxygen. Trudy VNIIAvtogen no.3:125-158 '55. (MIRA 11:12)
(Gas welding and cutting--Equipment and supplies)

GUZOV, S.G., inzhener

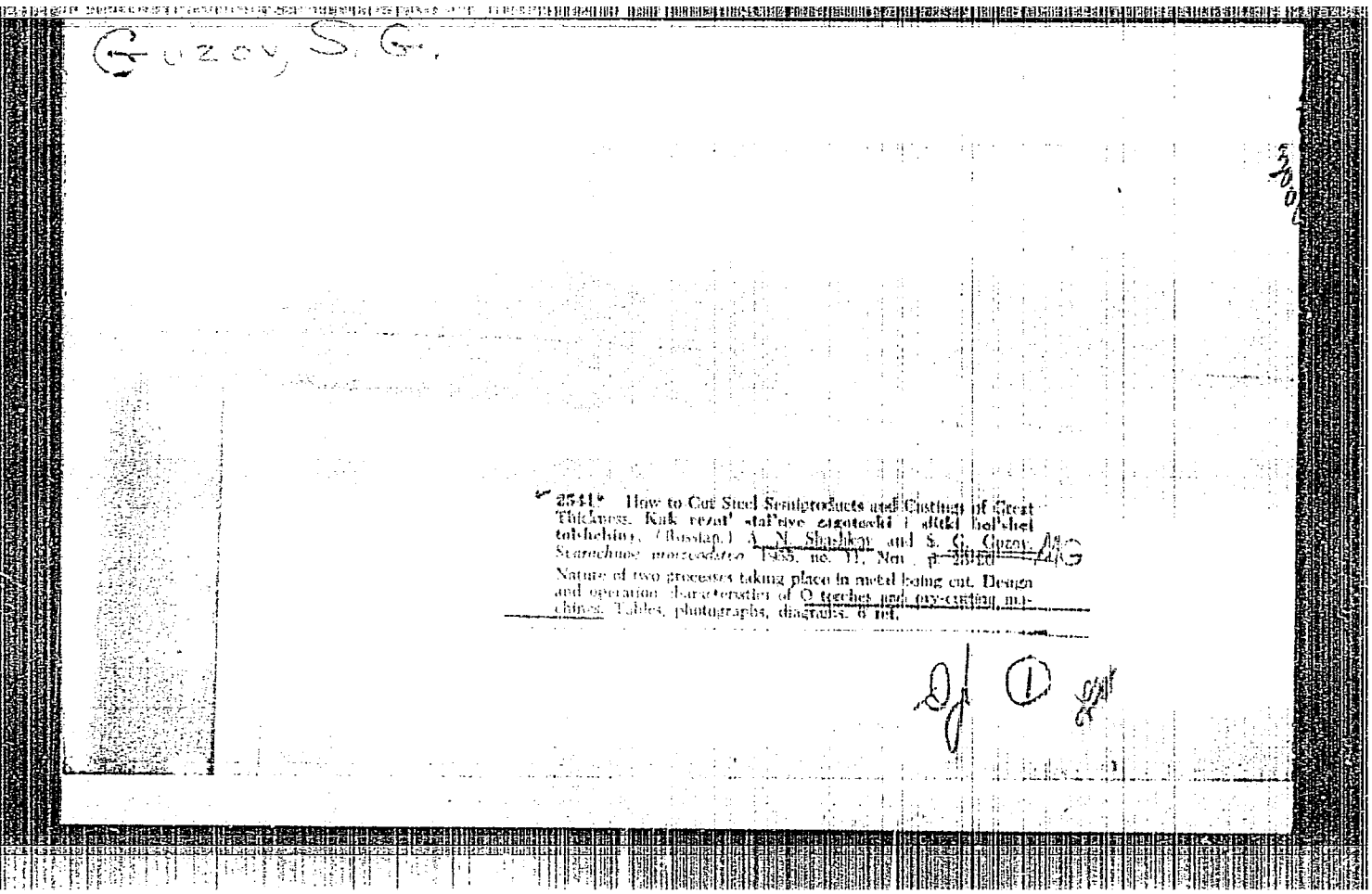
Method of comparing the cost of various oxygen-cutting systems. Svar. proizv. no.5:9-11 My '55. (MLRA 8:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov. (Oxyacetylene welding and cutting)

GUZOV, S.G., inzhener

Classification of severing performed by an oxygen cutting machine according to accuracy and surface quality of the cut. Svar. proizv. no.7:20-23 Jl '55. (MLRA 8:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Avtogen.
(Oxyacetylene welding and cutting)



Guzov, S. G.

2541* How to Cut Steel Semiproducts and Castings of Great Thickness. Kak rezat' stal'nye zagotovki i otlivki bol'shoi tolshchiny. / (Russian.) A. N. Shashkov and S. G. Guzov. Avtogennoe mashinostroenie. 1955. no. 11. Mos. p. illus.

Nature of two processes taking place in metal being cut. Design and operation characteristics of O torches and oxy-cutting machines. Tables, photographs, diagrams. 6 ref.

Guzov, S.G.

135-4-15/15

SUBJECT: USSR/Welding

AUTHORS: Guzov, S.G., and Spektor, O. Sh.

TITLE: Remarks to the Review by K.K. Khrenow and A.D. Kotvitskiy - "To the Problem of Cutting Thick Sections with Low-Pressure Oxygen" ('Svarochnoye Proizvodstvo" No 3, 1957). (Zamechaniya po retsenzii K.K. Khrenova, M.M. Borta i A.D. Kotvitskogo "K voprosu o rezke bol'shikh tolshchin kislorodom nizkogo davleniya","Svarochnoye Proizvodstvo", # 3, 1957).

PERIODICAL: "Svarochnoye Proizvodstvo", # 4, pp 29-30 (USSR).

ABSTRACT: The article represents remarks to statements made by K.K. Khrenov and A.D. Kotvitskiy, which the authors regard as contradictory or downright wrong.
The authors present their own conclusions on the criticized points: the proper oxygen pressure and the proper shape of the nozzle; effect of a slow oxygen stream in cutting materials of over 200-300 mm thickness; the proper pressure at the nozzle inlet and the effect of the size and shape of nozzle bores.

ASSOCIATION: Not stated.
PRESENTED BY:
SUBMITTED:
AVAILABLE: At the Library of Congress
Card 1/1

GUZOV, S.G.

ANTONOV, I.A., kand.tekhn.nauk; ANTOSHIN, Ye.V., inzh.; ASINOVSKAYA, G.A., inzh.; VASIL'YEV, K.V., kand.tekhn.nauk; GUZOV, S.G., inzh.; DEYKUN, V.K., inzh.; ZAYTSEVA, V.P., inzh.; KAZHEKOV, P.P., inzh.; KARAN, Yu.B., inzh.; KOLTUNOV, P.S., kand.tekhn.nauk; KOROVIN, A.I., inzh.; KRZHECHKOVSKIY, A.K., inzh.; KUZNETSOVA, Ye.I., inzh.; MATVEYEV, N.N., tekhnik; MOROZOV, M.Ye., inzh.; NEKRASOV, Yu.I., inzh.; NECHAYEV, V.D., kand.tekhn.nauk; NINBURG, A.K., kand.tekhn.nauk; SPEKTOR, O.Sh., inzh.; STRIZHEVSKIY, I.I., kand.khim.nauk; TESMENITSKIY, D.I., inzh.; KHROMOVA, TS.S., inzh.; TSHUNEL', A.K., Inzh.; SHASHKOV, A.N., kand. tekhn.nauk, dots.; SHEINECHNIK, M.M., inzh.; SHUKHMAN, D.Ya., inzh.; EDEL'SON, A.M., inzh.; VOLODIN, V.A., red.; UVAROVA, A.F., tekhn.red.

[Machines and apparatuses designed by the All-Union Institute of Autogenous Working of Metals] Mashiny i apparty konstruktsii VNIIAvtogen. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1957. 173 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut avtogennoi obrabotki metallov, no.9)
(Gas welding and cutting--Equipment and supplies)

137-58-2-3250

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 143 (USSR)

AUTHOR: Guzov, S.G.

TITLE: An Investigation of the Effect of the Purity of Oxygen on Rate of Production and Quality of Oxygen Cutting (Issledovaniye vliyaniya chistoty kisloroda na proizvoditel'nost' i kachestvo razdelitel'noy kislorodnoy rezki)

PERIODICAL: Tr. Vses. n.-i. in-ta avtogen. obrabotki metallov, 1957, Nr 4, pp 34-51

ABSTRACT: It is shown that the purity of the O_2 in oxygen cutting (C) affects the quality of the surface of the cut and, in particular, the length of the drag.. It was established that the length of the drag depends upon the thickness of the metal being cut, the C rate and the purity of the O_2 under optimum rates of consumption of cutting O_2, and the diameters of the conduits for the cutting O_2 in the orifices. An equation for recalculating the rate of C when O_2 of a purity other than normal is employed. This equation is valid for variations in O_2 purity within the 97.0 - 99.8 percent interval and for steel thicknesses of $\leq$ 100 mm. It is shown that

Card 1/2

137-58-2-3250

An Investigation of the Effect of the Purity of Oxygen (cont.)

many investigators exaggerate the quantitative effect of O_2 purity on the rate of output and the economics of cutting. It is noted that when steel of moderate thickness (not over 10-15 mm) is subjected to C at the minimum speed corresponding to maximum surface quality, the effect of O_2 purity is least evident in view of the significant degree to which the condition of the surface of the cut is dependent upon the heat developed by the pre-heat flame.

V.K.

1. Gas cutting--Quality--Test results 2. Gas cutting--Production--Test results
3. Oxygen--Purity--Effects on cutting

Card 2/2

Guzov S.G.

5(0) PHASE I BOOK EXPLOITATION SOV/2227

Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov

Proizvodstvo atsetilena dlya gazoplamennoy obrabotki metallov (Production of Acetylene for Flamespraying Metals) Moscow, Mashgiz, 1958. 87 p. (Series: Spravochnyye materialy po gazoplamennoy obrabotke metallov, vyp. 14) Errata slip inserted. 7,000 copies printed.

Comps.: I.I. Strizhevskiy, Candidate of Chemical Sciences and S.G. Guzov, Engineer; Eds.: A.N. Shashkov, Candidate of Technical Sciences and V.A. Koval'skiy, Engineer; Tech. Ed.: A.Ya. Tikhanov; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S.Ya. Golovin, Engineer.

PURPOSE: This book is intended for persons engaged in the production of acetylene for the purpose of flamespraying metals.

Card 1/5

COVERAGE: The book provides a systematic discussion of the structure of equipment used in acetylene production and their arrangement in installations which prepare and use acetylene to flame-spray metals. Rules for servicing equipment, production control and industrial safety measures are also discussed. The book, Obshchaya instruktsiya po proizvodstvy atsetilena (General Instructions for Acetylene Production), published in 1952, served as a basis for reference materials. Rules for the location and construction of acetylene installations and the distribution of equipment are given in accordance with the Giprokislorod (State Institute for the Design and Planning of Oxygen Installations) under the Ministry of the Chemical Industry. No personalities are given. There are no references.

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Fundamental Data on the Production of Acetylene From Calcium Carbide 5
Principal properties of acetylene 5
Preparation of acetylene from calcium carbide 9
Acetylene generators 13

Soluble /liquid/ acetylene 17
Acetylene installations 20
Flow sheet of the industrial process of acetylene preparation 21

Instructions in the Production of Acetylene and Safety Techniques 24
General information 24
Maintenance of acetylene-installation generators 27
Sludge pits 29
Maintenance of acetylene compressors 30
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Production of Acetylene (Cont.) SOV/2227

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AVAILABLE: Library of Congress

Card 5/5

Tm/bg
8-17-59

GUZOV, S.G.

AUTHORS: Guzov, S.G., and Kravetskiy, G.A., Engineers 135-58-5-12/17

TITLE: Oxygen-Cutting Without Burrs (Kislorodnaya rezka bez grata)

PERIODICAL: Svarochnoye Proizvodstvo, 1958, Nr 5, pp 36-39 (USSR)

ABSTRACT: Practical recommendations are given on how to eliminate the formation of burrs in oxygen-cutting of 5 to 100 mm thick low-carbon steel and how to make a burr readily removable without the common chipping. The recommendations concern the proportion of oxygen and acetylene, the nozzle diameter, the gas pressure, the cutting speed, the attack angle of the gas jet, and the condition of the surface of the cut metal. It was revealed in investigations that scale and rust on the surface prevent the fusion of the burr to the surface. In certain cases it can be practicable to cover the bottom side of the sheet with insulating material like graphite, aluminum, chromium oxide, chalk, etc, diluted with water, machine oil or water glass. The best results were obtained with aluminum powder in water glass, and for metal over 8 mm thickness water glass alone was sufficient. The cutting parameters for thin-sheet steel cutting given on table 3 were tried under workshop

Card 1/2

conditions and resulted in burrless edges, a burr on one side only, or burrs on both edges.
There are 6 figures and 3 tables.

ASSOCIATION: VNIIAvtogen

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Guzov, S. G., Engineer 135-58-8-5/20

TITLE: Preheating of the Flame in Oxygen Cutting (Podogrevayushcheye plamya pri kislorodnoy rezke)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 8, pp 18 - 23 (USSR)

ABSTRACT: The described research was carried out to determine the effect of the pre-heating of the flame in oxygen cutting under different conditions and to establish optimum parameters of the acetylene-oxygen flame in machine oxygen-cutting of low-carbon steel of 5 - 200 mm and 3 - 400 mm thickness. A method developed by N. N. Rykalin was used for investigations. Recommendations are given for the proportions of oxygen surplus in the flame, the proportion of oxygen and acetylene for different values of steel thickness and the shape of the nozzles. There are 7 graphs, 2 tables and 2 photos.

ASSOCIATION: VNIIAvtogen

1. Oxygen cutting--Methods 2. Flames--Preheating

Card 1/1

135-58-8-19/20

AUTHOR: Strel'tsova, Ye. M., Head of the Technical Information Section

TITLE: The Sverdlovsk Regional Conference on Gas-Flame Metal Working and Electric-Gas Processes (Sverdlovskoye oblastnoye soveshchaniye po gazoplamennoy obrabotke metallov i elektrogazovym protsessam)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 8, pp 46 - 47 (USSR)

ABSTRACT: A regional Conference on work done in the field of gas-flame metal working and electric-gas processes was convened at Sverdlovsk from May 14 - 16 by VNIIAvtogen, together with the welding section of the Sverdlovsk NTO section of Mashprom, the Ural House of Engineering and the Technical Administration of the Sverdlovsk sovnarkhoz. About 200 representatives from Sverdlovsk enterprises and other Ural and Siberian sovnarkhozes were present. The Conference was opened by S. I. Mikhaylov, Candidate of Technical Sciences, with an introductory report on problems relating to the improvement of gas-flame working of metals and new efficient processes connected with industrial reorganization. The Conference then heard the following reports: I.A. Antonov, Candidate of Technical Sciences, on the state of gas-flame working in the USSR and

Card 1/3

The Sverdlovsk Regional Conference on Gas-Flame Metal Working and Electric-Gas Processes

abroad; S. G. Guzov, Engineer, on new machines and equipment for oxygen cutting; I. V. Speshkov, engineer, on the application of gas-flame metal working at Uralmashzavod; I. S. Shapiro, engineer, on new methods of metal cutting; Yu. A. Maslov, engineer, on air-arc metal cutting; G. V. Chepushtanov, engineer, on work done in the field of gas-flame metal working at Uralkhimmashzavod; V. K. Deykun, engineer, on a "UGV" device for hardening small-module gears; G. V. Proskuryakov on manual and machine oxygen cutting; G. A. Asinovskaya, engineer, on automation of gas-flux welding; B. V. Konopka, engineer, on oxygen-flux and oxygen-sand cutting; Ye. V. Antoshin, engineer, on plastic, ceramic and metal coating; V. V. Bykov, chief

The Sverdlovsk Regional Conference on Gas-Flame Metal Working and Electric-Gas Processes

technologist, on new equipment produced by the first Moscow Autogenous Plant; V. Ye. Kuryshev on new generator and kerosene-cutter designs. The Conference decided to take measures to develop gas-flame metal working.

ASSOCIATION: VNIIAvtogen

1. Welding--Conference

Card 3/3

AUTHOR: Guzov, S.G. 30V/135-58-12-4/20

TITLE: Material and Heat Balance in Oxygen Cutting (Material'nyy i teplovoy balans kislorodnoy razdelitel'noy rezki)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 12, pp 13-17 (USSR)

ABSTRACT: The reduction of the amount of slag welded to the lower edges of cuts is an important economic problem in oxygen cutting which cannot be solved on the basis of existing data. In order to provide such data, experiments were carried out to determine the slag composition in oxygen cutting by the variation of some technological parameters. The following conclusions are made: The cut is produced by a physical (fusing of the metal) and a chemical (oxidizing of the metal) process. The increased amount of non-oxidized metal in the slag, contained in the lower edges of the cut, which is caused by an increase of heat, makes the elimination of the slag more difficult. Changes in the material and heat balance depend on the thickness of the steel which is particularly noticeable in 3 - 15 mm thick steel. The interdependence of non-oxidized iron and the oxygen content in the slag, which depend on the form and technology of cutting, are unaffected by the distribution of the oxygen between the ferrous and ferric oxide.

Card 1/2

Material and Heat Balance in Oxygen Cutting SOV/135-58-12-4/20

There are 6 graphs, and 6 references, 4 of which are Soviet, 1 English and 1 Polish.

ASSOCIATION: VNIIAvtogen

Card 2/2

25(1) GALUN, S.G. PHASE I BOOK EXPLOITATION SOV/2281

Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy obrabotki metallov

Kislorodnaya rezka i svarka (Oxygen Cutting and Welding) Moscow, Mashgiz, 1959. 268 p. (Series: Its: Trudy, vyp. 5) Errata slip inserted. 4,800 copies printed.

Ed.: A.N. Shashkov, Candidate of Technical Sciences; Ed. of Publishing House: G.N. Soboleva; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on Heavy Machine Building: S. Ya. Golovin, Engineer.

PURPOSE: This collection of articles is intended for engineers, technicians, scientists, designers, and students of vtuzes. The book may be used for improving operational methods of oxygen and gas metalworking.

COVERAGE: This book contains articles on theoretical investigations of oxygen cutting and welding and problems related to the gas-

Card 1/ 7

flame treatment of metals. No personalities are mentioned. References follow each article.

TABLE OF CONTENTS:

Kurlovich, Yu. V. [Engineer]. Designing a Tracer Mechanism for Photocell-Copying Systems 3
The author presents the results of a theoretical investigation of the determination of data of tracer-measuring instruments by computation. A comparative evaluation is included.

Guzov, S.G. [Engineer]. Investigating Parameters of Preheating Flame in Oxygen Metal Cutting 16
The author discusses the importance of the preheating flame in oxygen metal cutting and determines the optimum operational and constructional parameters for nozzles for oxygen cutting of steel 5 to 200 mm. in thickness.

Spektor, O. Sh. [Engineer]. Methods of Calculating Metal-base Fluxes for Oxygen Cutting of High-chromium Steel 97

This paper is a study of various slag systems and methods for quantitative calculation of powder composition in the powder cutting of high-chromium steels.

Guzov, S.G. Material and that Balance of the Oxygen Cut-off Process.
The author presents an extensive analysis, of slag compositions for different regimes of oxygen cutting. This analysis is based on experimental work. 115

Kazanskiy, A.N. [Engineer]. Problem of the Stability of Oxyacetylene Flames
The first part of the article contains a brief review of literature on the above subject. The second part deals with experimental study of the problem, a discussion of factors affecting flame stability, and the optimum design of torch nozzles 116

Nechayev, V.D. [Candidate of Technical Sciences]. Statistical Method of Determining the [Micro] Coefficient of Oxygen Con-

sumption at its Exit From Cylindrical Nozzles of Welding and Cutting Torches 191
The author investigates this problem and reaches an approximate value of the μ-coefficient by determining the relationship between the diameter of the nozzle orifice, the oxygen pressure, and the condition of the nozzle.

Asinovskaya, G.A. [Engineer], and N.M. Zelikovskaya [Engineer]. Gas Soldering and Welding With BM-1 Gaseous Flux 200
The author discusses the process developed in other countries, and the equipment used.

Strizhevskiy, I.I. [Candidate of Chemical Sciences], and V.P. Zaytseva [Engineer]. Preparation and Properties of Gaseous Flux 221
The author gives technological data of methylborate-methanol flux and makes recommendations for proper storage to prevent hydrolysis.

Strizhevskiy, I.I., and V.P. Zaytseva. Stabilizing Acetylene 229

The authors investigate the stabilizing effect of nitrogen, methane, and commercial propane on the explosive decomposition of acetylene under pressure of 5 to 20 atm.

Vasil'yev, K.V. [Candidate of Technical Sciences]. New Method of Oxygen-arc Cutting of Steel 245
The author describes an experimental investigation of the above process and stresses its advantages.

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Golubeva, Z.N. [Engineer]. Increasing Productivity of the Gas Welding Process 252
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Card 1/1 : Pub. 133 - 12/20

Authors : Guzovskiy, A. L., Chief of Central Telegraph Office, Moscow

Title : Utilization of internal reserves for further increase in productivity by telegraph workers

Periodical : Vest. svyazi 7, 20-21, July 1954

Abstract : Report by the chief of the Moscow Central Telegraph Office calling for more and better qualified personnel for the purpose of increasing the productivity by telegraph workers.

Institution : Central Telegraph Office, Moscow

Submitted : ...

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We are improving telegraph equipment and apparatus. Vest. sviazi 20 no.7:2-4 Jl '60. (MIRA 13:11)

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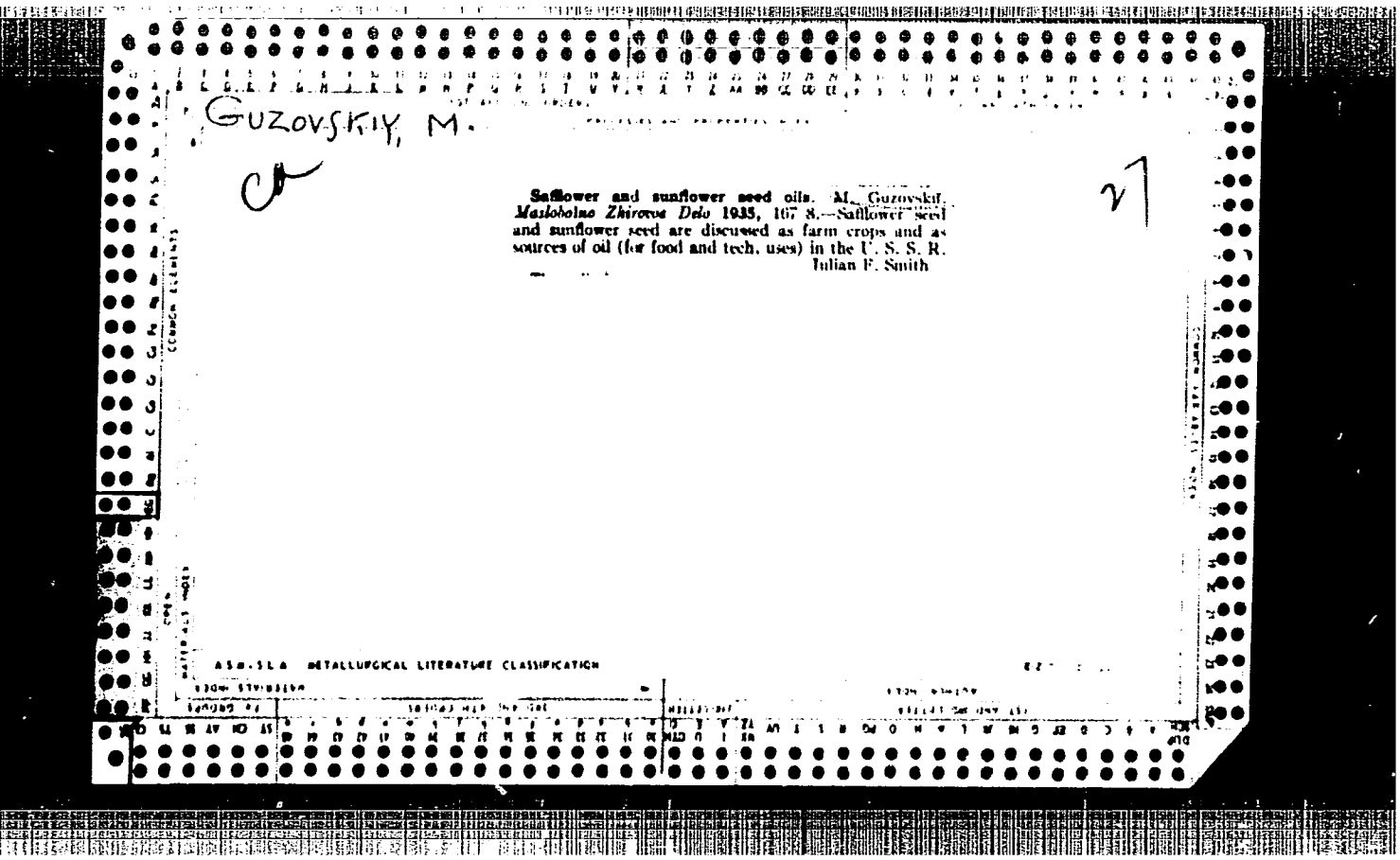

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(LEUKEMIA, blood in,
induction of hemolytic anemia in guinea pigs with leukemic serum (Pol))

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Vest. khir. 84 no. 4:27-33 Ap '60. (MIRA 14:1)
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Author : Skurska Z., Makower H., Fogel A., Guzy K.
Inst : Not given
Title : Study of the Viruses of Parapoliomyelitis. Report 11. Virus Tward.

Orig Pub : Arch. immunol. i terap. doswiadcz., 1955,3, 481-598

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(POLIOMYELITIS, diag.
difficulties (Pol))

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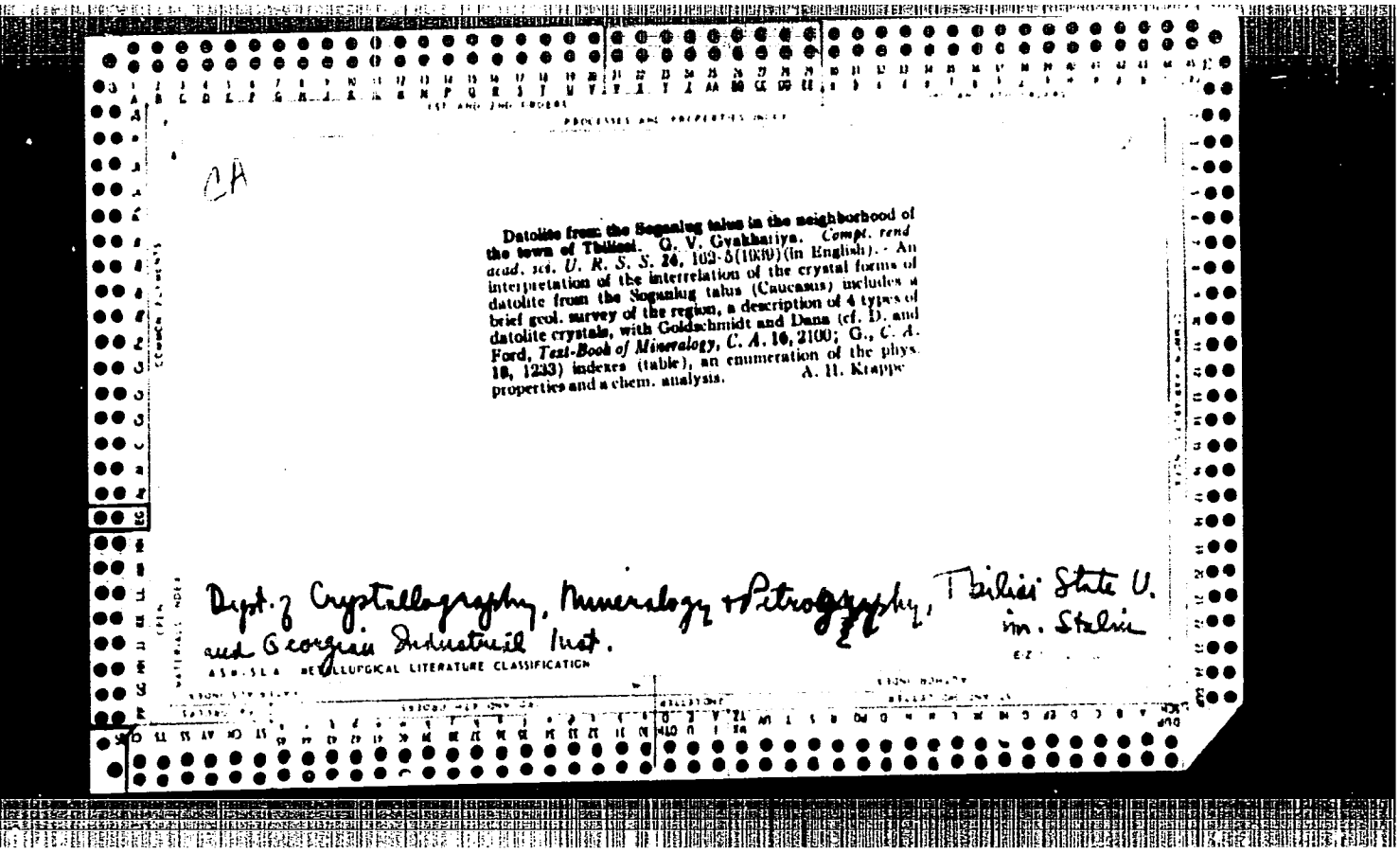

CA

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Dept. of Crystallography, Mineralogy & Petrography, Tbilisi State U. im. Stalin and Georgian Industrial Inst.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

GVAKHARIYA,G.V.; RUBINSHTEYN,M.M., redaktro; TODUA,A.R., tekhnicheskiy redaktor

[Zeolites of Georgia] TSeolity Gruzii Tbilisi, Izd-vo Akademii nauk Gruzinskoi SSR, 1951. 248 p. (Akademiia nauk Gruzinskoi SSR, Tiflis. Institut geologii i mineralogii. Monografii no.3) (MLRA 8:12)
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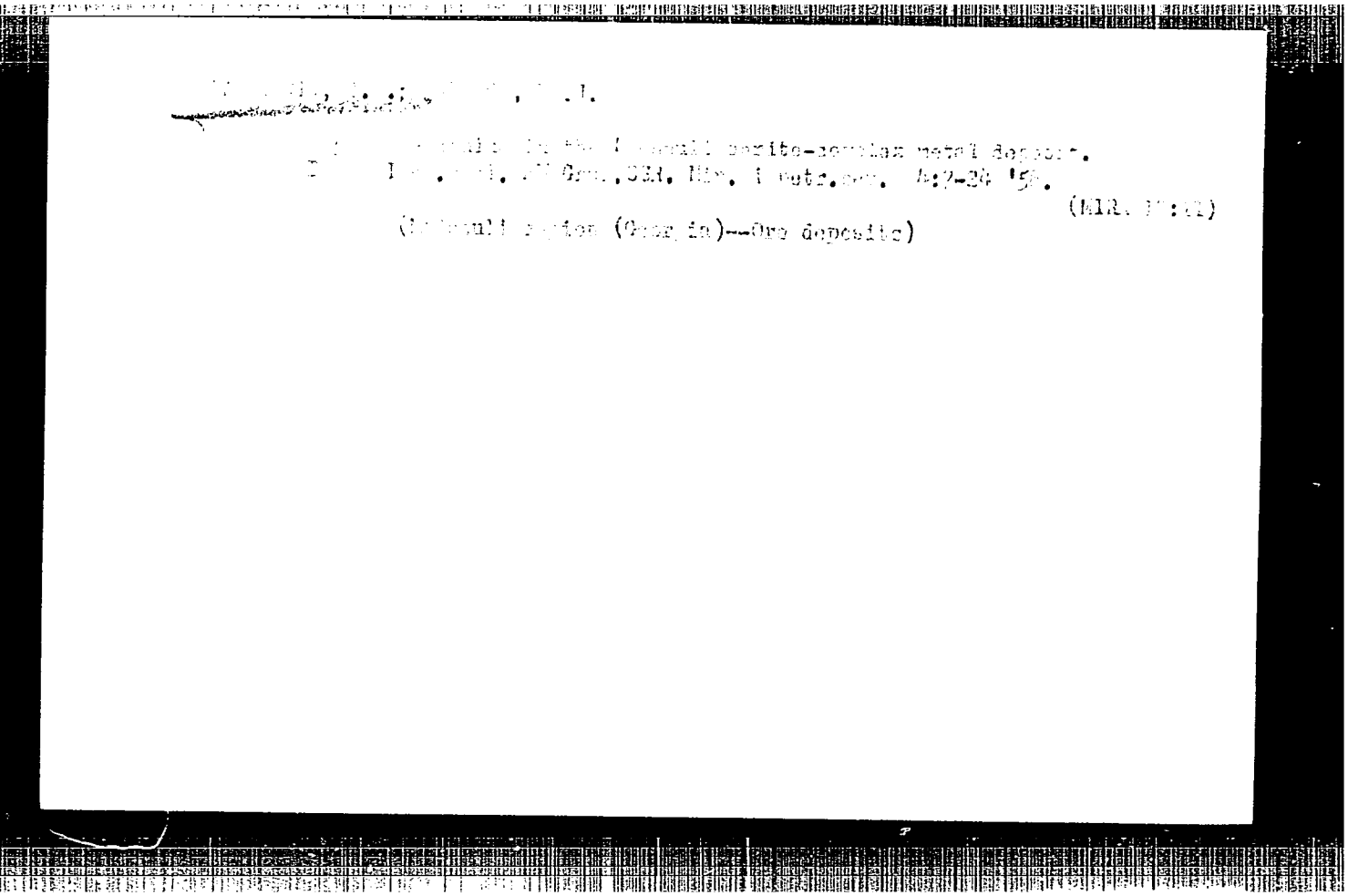
"A Barite-Witherite Association", Soobsch-AN Gruz SSR, 14, No 5, 267-272, 1953.

In one of the Caucasian barite deposits three stages have been distinguished ofthe hypogene mineral formation dissociated by internal mineralizational movements. After the first, the quartz-pyrite stage, follows the brite-carbonate sulfite stage and finally the barite-witherite stage. At the end of the third stage the sulfate process has been replaced by the thich-layer carbonate stage; under the conditions of the latter witherite has appeared, for the formation of which we need a surplus of barium ions and a deficit of sulfate ions. (RZhGeol, No 5, 1954)
SO: Sum. No. 443, 5 Apr. 55

Inst. Geol. and Mineral., Tbilisi AS GeoSSR



GVAKHARIYA, G.V.

3(5) **PHASE I BOOK EXPLOITATION** SOV/2505

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Prirodnyye resursy Gruzinskoy SSR. t. 2: Nemetallicheskiye poleznyye iskopayemyye (Natural Resources of the Georgian Soviet Socialist Republic. v. 2: Nonmetallic Mineral Deposits) Moscow, Izd-vo AN SSSR, 1959. 379 p. Errata slip inserted. 5,500 copies printed.

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PURPOSE: This book is intended for economic geologists and mineralogists.

COVERAGE: This collection of articles describes the nonmetallic mineral deposits of the Gruzinskaya SSR and the extent to which they have been exploited. Individual articles discuss the importance of barite, diatomite, talc, andesite, and other minerals to the chemical industry; of barite, gumbrine, and bentonitic clays to the petroleum industry; and of marble, slate, and limestones to the construction industry. A map depicting the major nonmetallic mineral deposits is included with the work. No personalities are mentioned. References accompany each article.

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