"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

PRITULA, Yu. A.; GRIGOR'YEV, V. M.; MANDEL'BAUM, M. M.; MIKUTSKIY, S. P.; MOKSHANTSEV, K. B.; SOKOLOV, D. S.

"Oil and gas deposits of the Siberian Platform."

report submitted for 22nd Sess, Intl Geological Cong, New Delhi, 14-22 Dec 1964.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D. V.

SOKOLOV, D. V. (Professor) Diagnostic value of the method of thick blood dropped on stained filtrate paper.

So: Veterinariya; 24; 10; October 1947; Uncl.
TABCON

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

ILI'IN, Yerofey Vasil'yevich; SOKOLOV, D.V., nauchn. red.
ZHURAVLEV, B.A., red.

[Installation of storage batteries and charging devices]
Montazh akkumuliatornykh batarei i zariadnykh ustroistv.
Moskva, Stroiizdat, 1964. 113 p. (MIRA 17:6)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D. V.

ROMANOV, V. S. Montazh raspredelitel'nogo ustroystva elektricheskikh stantsiy i podstantsiy. Moscow, 1944. 354p.

A textbook for advanced trade and railroad schools giving information on distributing equipment of electric power stations and substations, repair and maintenance of equipment, installation of electric equipment, grounding, and the organization of electrical installation work; published by State Electric Power Publishing House.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D. V.

Installation of heavy duty insulated conductors in industrial establishments. Moskva, Gos. energ. izd-vo, 1947. 75 p. (49-52289)

TK3211.S6

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D.V.

SMIRNOV, A.D., redaktor; SOLOV'YEV, P.F., redaktor; SOKOLOV, D.V., redaktor.

[Electrician's handbook] Spravochnik elektromontera. Pod obshchei redaktsiei A.D.Smirnova i P.F. Solov'eva. Moskva, Gosudarstvennoe energeticheskoe izd-vo, 1950-. v.2. [Wiring and electric illumination equipment]Provodki i osvetitel'nye elektroustanovki. v. 3[Installation of substation distribution systems of up to 35 kilovolts] Montazh raspredelitel'nykh ustroistv podstantsii do 35 kv.
(Electric lighting) (Electric substations) (MIRA 8:3)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D.V.

Montazh elektrooborudovaniia transformatornykh podstantsii promyshlennykh predpriiatii (Assembling of electric equipment of transformer sub-stations of industrial enterprises). Moskva, Gos. izd-vo lit-ry po stroit. arkhit., 1952. 175 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

LEVI, S.S.; SOKOLOV, D.V., redaktor; KRASIL'SHCHIK, S.I., redaktor; TOKER, A.M., tekhnicheskiy redaktor

[Booklet on safety measures in work with electric tools] Pamiatka po tekhnike bezopasnosti pri rabote elektroinstrumentami. 2. izd. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 28 p. (MLRA 7:8)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. Otdel tekhniki bezopasnosti i promyshlennoy sanitarii.
(Power tools--Safety measures)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV D. V.

LEBEDEV, N.N., inzhener, redaktor; VINOGRADOV, K.V., inzhener, redaktor; LEVI, S.S. inzhener, redaktor; ROZANOV, M.S., inzhener, redaktor; SIMAKOV, S.N., inzhener, redaktor; SOKOLOV, D.V., inzhener, redaktor; NIKOLAYEV, L.A., redaktor; DAKHNOV, V.S., tekhnicheskiy redaktor.

[Power engineering handbook for construction work] Spravochnik energetika na stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 915 p. (MLRA 7:12)

(Power engineering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

KHROMCHENKO, Grigoriy Yefimovich; SOKOLOV, D.V., inzhener, redaktor; BEGAK, B.A., redaktor; TOKER, A.M., tekhnicheskiy redaktor.

[High-voltage switchgear; construction and assemblage] Vysokovol'tnaia vykliuchaiushchaia appratura; konstruktsii i montazh. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 222 p. (MLRA 9:1)
(Electric switchgear)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D. V.

N/5
663
.M31

Elektromontazhnye raboty (Electrical assembling work, by) V. V. Markelov i D. V. Sokolov. Moskva, Gos. Izd-vo Literatury Po Stroitel'stvu i Arkhitekture, 1955.
330 p. illus., diagrs., tables.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

MALINA, F.N.

"Handbook of the power engineer in construction work." D.V.Sokolov. Reviewed by F.N.Malina. Energetik 3 no.8:39-40 Ag '55. (MIRA 8:10)

(Power engineering) (Sokolov, D.V.)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

Sokolov

PILYAVSKIY, A.T.; SOKOLOV, D.V., inzhener, nauchnyy redaktor; PROSTOSERDOV, A.P., redaktor izdatel'stva; BOROVNEV, N.K., tekhnicheskiy redaktor; MEL'NICHENKO, F.P., tekhnicheskiy redaktor

[Safety instructions for movable electric power plant operators] Pamiatka po tekhnike bezopasnosti dlia mashinista peredvizhnoi elektrostantsii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit., 1956. 15 p. (MLRA 10:4)

(Electric engineering--Safety measures)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

MARKELOV, Vasiliy Vasil'yevich; SOKOLOV, D.V., inzhener, nauchnyy redaktor; TYAPKIN, B.G., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Installation of electric power and lighting equipment] Montazh silovogo i osvetitel'nogo elektrooborudovaniia. Izd. 2-oe, ispr. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 133 p. (MLRA 9:9)
(Electric engineering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

LEVI, Semen Savel'yevich, kandidat tekhnicheskiy nauk; SOKOLOV, D.V., inzhener, nauchnyy redaktor; UDOD, V.Ya., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Power supply for construction work] Energosnabzhenie stroitel'stva. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 243 p. (MLRA 10:1)
(Electric power) (Building)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

PHASE I BOOK EXPLOITATION 948

Sokolov, D. V., Engineer

Vtorichnaya kommutatsiya v raspredelitel'nykh ustroystvakh (Secondary Switching in Distributing Systems) Moscow, Gosstroyizdat, 1958. 160 p. 15,000 copies printed.

Scientific Ed.: Frenkel', S.N., Engineer; Ed. of Publishing House: Fakhomova, M.A.; Tech. Ed.: Solntseva, L.M.

PURPOSE: The monograph is intended for electricians working with switching systems. It is recommended by the Department of Educational Institutions of the Ministry of Construction, RSFSR, as a textbook for improving the qualifications of workers.

COVERAGE: The book describes the basic components of secondary circuits in distributors. It discusses electrical measuring instruments, relays, and equipment for remote control, signaling and heat

Card ~~1/5~~

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

control. Operation of control wiring systems is described and methods of assembly and wiring of switchboard equipment are discussed. It also describes problems in organizing installation of switching systems. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

PART 1. COMPONENTS OF SECONDARY EQUIPMENT

Ch. 1. Concepts of Secondary Circuits 3

Ch. 2. Electrical Measuring Instruments 8

Ch. 3. Protective Equipment 16
1. Concepts of relays and relay protection 16
2. Classification of relays 19
3. Structure and operating principle of basic types of relays 23

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, D.V

PHASE I BOOK EXPLOITATION SOV/3572

Nebesnyy, Andrey Danilovich, Engineer, Vasiliy Vasil'yevich Skvortsov, Engineer, and Dmitriy Vladimirovich Sokolov, Engineer

Mekhanizatsiya i industrializatsiya elektromontazhnykh rabot (Mechanization and Industrialization in Electrical Assembly Work) Moscow, Gosstroyizdat, 1959. 218 p. 5,000 copies printed.

Ed. of Publishing House: G. M. Shirokova; Tech. Ed.: L. M. Osenko.

PURPOSE: This book is intended for technical personnel engaged in electrical assembly work.

COVERAGE: The book presents the fundamentals of installation practices of power-generating and distributing equipment. Devices used in the installation jobs and problems of mechanization are surveyed. Methods applied to such operations are described and evaluated. The material presented in this book reflects the most advanced practices as applied, for example, by the Glavelektromontazh (Main Administration for Power-Equipment Installation) of the Ministry for Civil Engineering and Industrial Construction of the RSFSR and by the

Card 1/6

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

Ministry for Power-Plant Building of the USSR. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Introduction 3

Ch. I. Industrial Methods of Preparing for Electrical Construction 6

I. Pre-assembly sectors and dispatch stations 6
II. Engineering lines 13
1. Engineering line for the processing of shapes 14
2. Engineering line for the processing of sheet steel 17
3. Layout of wiring in steel pipes 20
4. Engineering line for the layout of bus-bar sections 34
III. Metalworking machine-tools used in electromechanical shops 51

Ch. II. Drilling Holes in Workpieces for the Installation of Electrical Systems and for Mounting of Trussing 54
I. Use of hard-alloy drills 55
II. Dowel-fixing 65
III. Gun boring tool of the SMP-1 type 68

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

8(6) SOV/81-59-9-28/33

AUTHOR: Sokolov, D.V.

TITLE: Methods of Installing Wires of Type PRTO

PERIODICAL: Energetik, 1959, Nr 9, p 37 (USSR)

ABSTRACT: Answering an inquiry of Yakovishin (Ulan-Ude), the author states that cable PRTO should be used in combination with steel tubes, which in turn may be mounted on the surface of walls or underneath the surface. For open installation cable PR is cheaper. The PR cable is installed rollers or insulators. Installing cables PR ot PRTO directly on walls is not recommended by existing rules and is not used.

Card 1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

LIPKIN, B.Yu.. Prinimali uchastiye: GOL'DGOF, B.G., inzh.; BARYBIN, Yu.G., inzh.; VORONKOV, Yu.F., inzh.; VENETSIANOV, Ye.A., inzh.. SOKOLOV, D.V., inzh., nauchnyy red.; KROMOSHCH, I.L., red.izd-va; GORDEYEV, P.A., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Electric equipment at industrial enterprises] Elektrooborudovanie promyshlennykh predpriiatii. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 399 p. (MIRA 13:7)

(Electric driving)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

8

Ca

Corundum plagioclasites of Kaslinskaia Dacha, Urals
B. A. Sokolov. *Trans. Geol. Prospecting Service* (U. S. S. R.) No. 86, 3-46 (1931); *Mineralog. Abstracts* 6, 436.
Rocks previously named kyshtymite, barsowite, plumasite and corundum-anorthosite are now all included as corundum-plagioclasites. All consist of plagioclase with more or less of corundum, muscovite, biotite, rutile, zircon, spinel, magnetite and apatite. Marundite is a pneumatolytically altered variety contg. margarite and tourmaline. Here these rocks form veins or irregular masses intrusive into serpentine and peridotite, the exo-contact zone being (1) vermiculite (I), (2) enstatite-actinolite-chlorite, (3) serpentine in which *sangsite* (II), chlorite, quartz, chalcedony, carbonates and ferric oxides are more or less developed. Sangsite is a greenish white variety of serpentine, n_g 1.545, $\gamma - \alpha$ 0.016. The heating curve shows halts at 200°, 410° and 710°. Analyses are given of I, II and of a white chlorite (probably penninite). C. A. S.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

Ca

8

Alkaline metasomatism in amphibolites of Mt Ver-
blyuzh'ei, South Ural. G. A. Sokolov. *Trav. inst.*
petrog. acad. sci. U. R. S. S. 6, 170-88(1931). *Mineralog.*
Abstracts 6, 426.—Some (amphibolitic) xenoliths in the
peridotitic serpentine of this mountain, composed of
hastingsite, albite, andesite, natrolite and cancrinite, are
considered to be the result of metasomatism of amphibolite
by "granitic fluids which have passed through the bulk of
serpentines and peridotites." C. A. Silberrad

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Geological and geochemical studies of the chromite bearing intrusive body of southern Kraka. G. A. Sokolov. *Trav. inst. Lomonosoff géochim. cryst. minéral* (U. S. S. R.) No. 9, 5 62(in English 62-4)(1938). —The petrographic compn. of the laccolite is characterized by the predominance of peridotites. Cr is the most characteristic element of the Kraka intrusion. Chromium-spinel and serpentinized olivine are found. Coarse cryst. ores contain Cr chlorites. The theories explaining the deposits are discussed. I. S. Ioffe

A.S.M. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

CA

2

PROCESSES AND PROPERTIES INDEX

Sergei Sergeevich Smirnov. G. A. Sokolov. *Vestnik Akad. Nauk S.S.S.R.* 16, No. 1, 64-6(1946).—A testimonial on S.'s 50th birthday with a review of his work in geology. M. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

GINZBURG, I.I.; BELYANKIN, D.S., akademik, redaktor; SOKOLOV, G.A., redaktor.

[Geochemistry and geology of the ancient weathering zone in the Urals] Geokhimiia i geologiia drevnei kory vyvetrivaniia na Urale. Moskva, Izd-vo Akad.nauk SSSR, 1947. 134 p.(Akademiia nauk SSSR. Institut geologicheskikh nauk. Trudy, no.81). (MLRA 9:7)
(Ural Mountains--Geochemistry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.; GRIGOR'YEV, I.F., akademik, redaktor; BETEKHTIN, A.G., redaktor; POPOVA, S.T., redaktor; KARPOV, I.I., tekhnicheskiy redaktor.

Composition, conditions of crystallization, and regularities of chromites in the Urals. Trudy Inst.geol.nauk no.97:1-127 '48. (MLRA 9:8)

1. Chlen-korrespondent Akademii nauk SSSR (for Betekhtin)
(Ural Mountains--Chromite)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BETEKHTIN, A.G., akademik, glavnyi redaktor; VOL'FSON, F.I.; ZAVARITSKIY, A.N.; KORZHINSKIY, D.S.; LEVITSKIY, O.D.; NIKOLAYEV, V.A.; SOKOLOV, G.A., doktor geologo-mineralogicheskikh nauk, otvetstvennyi redaktor.

[Fundamental problems in the theory of magmatic ore deposits] Osnovnye problemy v uchenii o magmatogennykh rudnykh mestorozhdeniiakh. [Glavnyi redaktor A.G.Betekhtin]. Moskva, Izd-vo Akademii nauk SSSR, 1953. 615 p. (MLRA 7:5)

1. Akademiya nauk SSSR. Institut geologicheskikh nauk. (Ore deposits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

GINZBURG, I.I.; SOKOLOV, G.A.

In connection with the article of V.N.Poddubnyi on "The problem of the origin of iron ore." Izvest. Akad. Nauk S.S.S.R., Ser. Geol. '53, No.2, 113-14. (CA 47 no.22:12148 '53) (MIRA 6:4)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

GALDIN, N.Ye., [translator] DEMBO, T.M., [translator]; KANTSEL', B.A., [translator] KRASHENINNIKOV, V.A., [translator] FRUMKINA, R.M. [translator]; SOKOLOV, G.A., redaktor; ZNAMENSKAYA, V.K., redaktor; IL'YIN, B.M., tekhnicheskiy redaktor.

[World iron ore deposits; collection of articles] Zhelezorudnye mestorozhdeniia mira; sbornik statei. Perevod s angliiskogo, frantsuzskogo i ispanskogo N.E.Galdina, i dr. Pod.Red. i s predisloviem G.A.Sokolova. Moskva, Izd-vo inostrannoi lit-ry. Vol.1, 1955. 492 p. [Microfilm] (MLRA 9:1)

1. International Geological Congress. 19th, Algiers, 1952. (Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A., redaktor; ZNAMENSKAYA, V.K., redaktor; IL'IN, B.M., tekhnicheskiy redaktor;

[Iron deposits of the world; a collection of articles. Translated from the English, German, French and Italian] Zhelezorudnye mestorozhdeniia mira; sbornik statei. Perevod s angliiskogo, nemetskogo, frantsuzskogo i ital'ianskogo B.S.Izrailia i dr. Moskva, Izd-vo inostrannoi lit-ry. Vol. 2. 1955. 439 p. (MLRA 9:2)

1. International Geological Congress. 19th, Algiers. 1952.
(Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

BETEKHTIN, A.G.; VOL'FSON, F.I.; ZAVARITSKIY, A.N.; KORZHINSKIY, D.Z. LEVITSKIY, O.D.; NIKOLAYEV, V.A.; SOKOLOV, G.A., redaktor, doktor geologo-mineralogicheskikh nauk; ALEKSEYEVA, T.V., tekhnicheskiy redaktor.

[Fundamental problems in the theory of magmatic ore deposits] Osnovnye problemy v uchenii o magmatogennykh rudnykh mestorozhdeniiakh. 2-e izd. Moskva, Izd-vo Akademii nauk SSSR, 1955, 622 p. [Microfilm] (MLRA 8:7)

(Ore deposits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A., redaktor; GALDIN, N.Ye., [translator]

[Iron ore deposits of the world; a collection of articles. Translated from the English, French and Spanish] Zheleznorudnye mestorozheniia mira; sbornik statei. Perevod s angliiskogo, frantsuzskogo i ispanskogo N.E.Galdina. Pod red. i s predisl. G.A.Sokolova. Moskva, Izd-vo inostrannoi lit-ry, 1955. 2 v. maps. (part fold) 27 p.
(MLRA 10:5)

1. International Geological Congress, 19th. Algiers, 1952.
(Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SHAPIRO, I.S.; TERPIGOREV, A.M., akademik, redaktor; SOKOLOV, G.A., professor, redaktor; DERKACH, V.G., doktor tekhnicheskikh nauk, redaktor; DOLITSKAYA, S.S., redaktor izdatel'stva; MOSKOVICHEVA, N.I., tekhnicheskiy redaktor

[Iron ores; a bibliography] Zheleznye rudy; bibliograficheskii spravochnik. Moskva, 1957. 767 p. (MLRA 10:9)

1. Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii (Bibliography--Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

POPOVA, A.S., starshiy bibliograf; SOKOLOV, G.A., doktor geolog-mineralogicheskikh nauk, otvetstvennyy red.; GALUSHKO, Ya.A., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Endogenous ore formation and endogenous ore deposits; a bibliography of Soviet books and periodical literature from 1945 to 1954] Endogennoe rudoobrazovanie i endogennye rudnye mestorozhdeniia; bibliografiia sovetskoi knizhnoi i zhurnal'noi literatury za 1945-1954 gg. [Moskva] 1958. 79 p. (MIRA 11:6)

1. Akademiya nauk SSSR. Sektor seti spetsial'nykh bibliotek.
(Bibliography--Ore deposits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, N.Kh.; KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S., starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUKHIN, A.S.; GARNETS, N.A.; SPEYT, Yu.A.; SELIVESTROVA, M.I.; RUTKEVICH, V.G.;BYKOV, G.P.; NIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSHKIN, A.S.; PAN, F.Ya.; RUSANOV, M.G.; YAZBUTIS, E.A.; ROZHDESTVENSKIY, Yu.V.; SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.I.; KAMENSKAYA, T.Ya.; MASLENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.; MITROPOL'SKIY, A.S.; LUKIN, V.A.; ZIMIN, S.S.; KOREL', V.G.; DERBIKOV, I.V.; BARDIN, I.P., akademik, nauchnyy red.; GORBACHEV, T.F., nauchnyy red.; YEROFEYEV, N.A., nauchnyy red.; NEKRASOV, N.N., nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SMIRNOV-VERIN, S.S., nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.; SLEDZYUK, P.Ye., red.toma; SOKOLOV, G.A., red.toma; BOLDYREV, G.P., red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; KUDASHEVA, I.G., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mestorozhdeniia Altae-Saianskoi gornoi oblasti. Vol.1. Book 1. [Geology]

(Continued on next card)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

POSPELOV, G.L.---(Continued) Card 2.
Geologiia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. 330 p.
(MIRA 12:2)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Postoyannaya mezhduvedomstvennaya komissiya po zhelezu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov). 3. Zapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushev, Pospelov.) 4. Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich). 5. Krasnoyarskoye geologicheskoye upravleniye (for Pan). 6. Zapadno-Sibirskiy geologo-razvedochnyy trest Chermetrazvedka (for Prodanchuk). 7. Sibirskiy geofizicheskiy trest (for Pipar). 8. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Dodin). 9. Gornaya ekspeditsiya (for Mitropol'skiy). 10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Lukin). 11. Tomskiy politekhnicheskiy institut (for Zimin). 12. Sibirskiy metallurg.institut (for Korel'). 13. Trest Sibneftegeofizika (for Derbikov). (Altai Mountains--Iron ores) (Sayan Mountains--Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BARDIN, I.P., akademik, otv.red.; STRUMILIN, S.G., akademik, red.; SHEVYAKOV, L.D., akademik, red.; SHCHERBAKOV, D.I., akademik, red.; ANTIPOV, M.I., red.; BELYANCHIKOV, K.P., red.; BRODSKIY, V.B., red.; YEROFEYEV, B.N., red.; LIBERMAN, A.Ya., red.; MELESHKIN, S.M., red.; ORLOV, I.V., red.; SMIRNOV-VERIN, S.S., red.; RIKMAN, V.V., red.; SAMARIN, A.M., red.; SLEDZYUK, P.Ye., red.; SKOBNIKOV, M.L., red.; SOKOLOV, G.A., red.; FREY, V.I., red.; KHLEBNIKOV, V.B., red.; SHAPIRO, I.S., red.; SHIRYAYEV, P.A., red.; KUDASHEV, A.I., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Magnetite ores of the Kustanay Province and their exploitation] Magnetitovye rudy Kustanaiskoi oblasti i puti ikh ispol'zovaniia. Otvetstvennyi red. I.P. Bardin. Moskva, Izd-vo Akad. nauk SSSR, 1958. 489 p. (Zhelezorudnye mestorozhdeniia SSSR). (MIRA 12:2)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. (Kustanay Province--Magnetite)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

VITOVSKAYA, I.V.,[translator], GALDIN,N.Ye.,[translator], KRASHENINNIKOV, V.A.,[translator], KHARKEVICH, D.S.,[translator],; SOKOLOV, G.A., red.; KARASEV, A.D., red.; ROMANOVICH, G.P., red.; SMIRNOVA, N.I., tekhn. red.

[Studies on ore deposits; collection of articles] Problemy rudnykh mestorozhdenii; sbornik statei. S. predisl. G.A.Sokolova. Moskva, Izd-vo inostr. lit-ry, 1958. 495 p. (MIRA 11:11)
(Ore deposits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SHATSKIY, N.S., akademik, otv.red.; SHCHERBAKOV, D.I., akademik, red.; BELYAYEVSKIY, N.A., red.; DOLGOPOLOV, N.N., red.; LEVITSKIY, O.D., red.; PUSHCHAROVSKIY, Yu.M., red.; SOKOLOV, G.A., red.; NOSOV, G.I., red.izd-va; GUSEVA, I.N., tekhn.red.

[Characteristics of the distribution of mineral resources] Zakonomernosti razmeshcheniia poleznykh iskopaemykh. Vol.1. Moskva, 1958. 532 p. (MIRA 12:3)

1. Akademiya nauk SSSR. Komissiya po probleme "Zakonomernosti razmeshcheniya poleznykh iskopayemykh."
(Mines and mineral resources)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

AUTHORS: Sokolov, G.A. and Komarov, P.V. SOV-11-58-8-3/14

TITLE: Transformation of Ludwigite in the Magnetite Deposit Zheleznyy Kryazh in the Eastern Transbaykal Region (Izmeneniye ludvigita na magnetitovom mestorozhdenii Zheleznyy Kryazh v Vostochnom Zabaykal'ye)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya Geologicheskaya, 1958, Nr 8, pp 27-37 (USSR)

ABSTRACT: The authors describe ludwigite, associated with magnesium skarns, as a late skarn mineral secreted metasomatically. It is often found in the contact-metasomatical "Zheleznyy Kryazh" iron ore deposits. Zones of forsterite skarns, usually serpentinous and containing small quantities of magnesium minerals, are the most favorable places for ludwigite. The magnetite is often found in such skarns and even forms magnetite ores. In places where ludwigite is formed, the magnetite usually fills the intervals between the prismatic rays of ludwigite; some times its aggregates replace these rays. This circumstance indicates that the magnetite was formed after the ludwigite. In single sectors, iron sulfides, mainly pyrrhotine, are also developed and belong to a later hydrothermic stage. The rocks containing ludwigite are represented

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV-11-58-8-3/14

Transformation of Ludwigite in the Magnetite Deposit Zheleznyy Kryazh in the Eastern Transbaykal Region

by mineral associations with largely changing content of waterless skarn minerals, ludwigite, magnetite, sulfides and other secondary minerals. Sulfides are distributed in these rocks irregularly. In zones with a high sulfide contents the ludwigite undergoes many transformations, and samples taken from various depths showed that they contain either thinly dispersed pyrrhotin or colloidal sulfides of iron. As a result of different laboratory research, it was found that the higher the degree of transformation of the ludwigite, the more boron it looses, even to such an extent that the Zheleznyy Kryazh deposit cannot be commercially exploited. It was also found that the decomposition of the ludwigite is especially intensive in those parts of the deposit where the sulfide mineralization is more pronaunced.
There are 7 photos and 3 tables.

SUBMITTED: August 19, 1957

Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV-11-58-8-3/14

Transformation of Ludwigite in the Magnetite Deposit Zheleznyy Kryazh in the Eastern Transbaykal Region

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva (Institute of Geology, Ore Deposits, Petrography, Mineralogy and Geochemistry of AS USSR, Moscow)

1. Ludwigite--Sources --Availability 2. Ludwigite--Properties 3. Ludwigite

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

KROTOV, Boris Petrovich; SOKOLOV, G.A., otv.red.; KUN, N.R., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Differentiation of elements in weathering; lateritic weathering crust, its derivates - various types of iron and aluminum deposits and the tectonic effect on their distribution in geosynclines as exemplified by the Urals]. Differentsiatsiia elementov pri vyvetrivanii; lateritnaia kora vyvetrivaniia, ee proizvodnye - mestorozhdeniia zheleza i aliuminiia raznykh tipov - i vliianie tektoniki na zakonomernoe obrazovanie i razmeshchenie ikh v geosinklinaliakh na primere Urala. Moskva. Izd-vo Akad.nauk SSSR, 1959. 106 p. (Akademiia nauk SSSR. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii. Trudy, no.35) (MIRA 12:5)

(Ural Mountain region--Ore deposits) (Weathering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BARDIN, I.P., akademik, otv.red.; ANTIPOV, M.I., nauchnyy red.; GORBACHEV, T.F., nauchnyy red.; DOBIN, A.L., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALUGIN, A.S., nauchnyy red.; NEKRASOV, N.N., nauchnyy red.; POSPELOV, G.L., nauchnyy red.; SKOBNIKOV, M., nauchnyy red.; SMIRNOV-VERIN, S.S., nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.; SHAPIRO, I.S., nauchnyy red.; SLEDZHYUK, P.Ye., red. toma; SOKOLOV, G.A., red.roma; KUDASHEVA, I.G., red.izd-va; POLENOVA, T.P., tekhn.red.

[Iron ore deposits in the Altai-Sayan mountainous region] Zhelezorudnye mestorozhdeniia Altae-Saianskoi gornoi oblasti. Otvetstvennyi red.I.P.Bardin. Moskva. Vol.1. Book 2. [Description of the deposits] Opisanie mestorozhdenii. 1959. 601 p. (MIRA 13:2)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. (Altai Mountains--Iron ores)(Sayan Mountains--Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV G. A.

BARDIN, I.P., akademik, otv.red.; ANTIPOV, M.I., nauchnyy red.; GORBACHEV, T.F., nauchnyy red.; DODIN, A.L., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALUGIN, A.S., nauchnyy red.; NEKRASOV, N.N., nauchnyy red.; POSPELOV, G.L., nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red., red.toma; SMIRNOV-VERIN, S.S., nauchnyy red. [deceased]; SOKOLOV, G.A., nauchnyy red., red.toma; STRUMILIN, S.G., akademik, nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.; SHAPIRO, I.S., nauchnyy red.; KUDASHEVA, I.G., red.izd-va; POLENOVA, T.P., tekhn.red.

[Iron ore deposits of the U.S.S.R.] Zhelezorudnye mestorozhdeniia SSSR. Otv.red.I.P.Bardin. Moskva. Vol.1. [Iron ore deposits of the Altai-Sayan mountainous region] Zhelezorudnye mestorozhdeniia Altae-Saianskoi gornoi oblasti. Book 2. [Description of the deposits] Opisanie mestorozhdenii. 1959. 601 p. (MIRA 13:3)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu.
(Altai Mountains--Iron ores)
(Sayan Mountains--Iron ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SHATSKIY, N.S., akademik, otv.red.; SHCHERBAKOV, D.I., akademik, red.; BELYAYEVSKIY, N.A., red.; DOLGOPOLOV, N.N., red.; LEVITSKIY, O.D., red.; PUSHCHAROVSKIY, Yu.M., red.; SOKOLOV, G.A., red.; SHATALOV, Ye.T., red.; NOSOV, G.I., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Characteristics of the distribution of mineral resources] Zakonomernosti razmeshcheniia poleznykh iskopaemykh. Moskva. Vol.2. 1959. 504 p. (MIRA 13:6)

1. Akademiya nauk SSSR. Komissiya po probleme "Zakonouernosti razmeshcheniya poleznykh iskopayemykh. 2. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR (for Sokolov, Shatalov).
(Mines and mineral resources)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

Principles of compiling metallogenic maps of iron in the U.S.S.R. at a 1:5,000,000 scale. Zakonom. razm. polezn. iskop. 2:78-85 '59. (MIRA 15:4)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

(Iron ores--Maps)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BETEKHTIN, A.G.; SOKOLOV, G.A.

Sixtieth anniversary of Academician D.S.Korzhinskii. Geol. rud.mestorozh. no.6:3-4 N-D '59. (MIRA 13:7)
(Korzhinskii, Dmitrii Sergeevich, 1899-)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

KORZHINSKIY, D.S., otv.red.; AMIRASLANOV, A.A., red.; SOKOLOV, G.A., red.; OVCHINNIKOVA, S.V., red.izd-va; BYKOVA, V.V., tekhn.red.

[Genetic problems of ores] Geneticheskie problemy rud. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 173 p. (Doklady sovetskikh geologov. Problema 16). (MIRA 13:11)

1. International Geological Congress. 21st, Copenhagen, 1960. (Ore deposits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SHATSKIY, Nikolay Sergeyevich, akademik, glav. red. [deceased]; SMIRNOV, V.I., red.; SHCHERBAKOV, D.I., akademik, red.; GORSKIY, I.I., red.; DOLGOPOLOV, N.N., red.; PUSHCHAROVSKIY, Yu.M., red.; SOKOLOV, G.A., red.; TUGOLESOV, D.A., red. izd-va; KASHINA, P.S., tekhn. red.

[Mineral distribution characteristics] Zakonomernosti razmeshcheniia poleznykh iskopaemykh. Moskva, Vol.3. 1960. 651 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk. Sovet po izucheniyu zakonomernostey razmeshcheniya poleznykh iskopayemykh.
(Minerals)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BETEKHTIN, A.G.; LEVITSKIY, O.D.; PUSHCHAROVSKIY, Yu.M.; SOKOLOV, G.A.; SHATALOV, Ye.T.; SHIPULIN, F.K.

Nikolai Sergeevich Shatskii; obituary. Geol. rud. mestorozh. no.5:3-5 S-O '60. (MIRA 13:10)
(Shatskii, Nikolai Sergeevich, 1895-1960)
(Geology)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

Some problems relative to the study of endogenous ore formation and trends in further investigations. Geol.rud.mestorozh. no.5:5-20 S-O '61. (MIRA 14:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.
(Ore deposits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

PAVLOV, Nikolay Vasil'yevich; SOKOLOV, G.A., prof., doktor geolog.-min. nauk, otv.red.; SHOLIN, P.P., red.izd-va; KUZ'MIN, I.F., tekhn. red.; SHEVCHENKO, G.N., tekhn.red.

[Magnesioferrite deposits of the Tunguska syneclise area of the Siberian Platform] Magnomagnetitovye mestorozhdeniia raiona Tunguskoi sineklizy Sibirskoi platformy. Moskva, Izd-vo Akad. nauk SSSR, 1961. 223 p. 12 plates (Akademiia nauk SSSR. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii. Trudy, no.52). (MIRA 15:4)
(Yenisey Valley—Magnesioferrite)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A., doktor geol.-min. nauk, otv. red. Prinimali uchastiye: VLASOVA, D.K.; GLAGOLEV, A.A.; ZHARIKOV, V.A.; LOGINOV, V.P.; LUKIN, L.I.; MYAKELYA, R.O.; OMEL'YANENKO, B.I.; OSTROVSKIY, I.A.; PERTSEV, N.N.; PODDLESSKIY, K.V.; RUSINOV, L.V.; SOFIANO, T.A.; TIMOFEYEVA, L.K.; SHABYNIN, L.I.; SHADLUN, T.N.; LAPIN, V.V., red. izd-va; MAKUNI, Ye.V., tekhn. red.

[Physicochemical problems in connection with the formation of rocks and ores] Fiziko-khimicheskie problemy formirovaniia gornykh porod i rud. Moskva, Vol.1. 1961. 658 p. (MIRA 14:10)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii. 2. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva (for Vlasova, Glagolev, Zharikov, Omel'yanenko, Ostrovskiy, Pertsov, Shabynin). 3. Moskovskiy geologo-razvedochnyy institut im.S.Ordzhonikidze (for Shabynin, Pertsev.)

(Petrology)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

DYMKIN, A.M.; SOKOLOV, G.A.

Colloform formation of the endogenous magnetite in the Kurzhunkul' iron ore deposit. Geol. i geofiz. no.1:77-85 '61. (MIRA 14:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Turgay gates—Magnetite)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BETEKHTIN, A.G.; VOL'FSON, F.I.; GENKIN, A.D.; DUBROVSKIY, V.N.; YEROFEYEV, B.N.; KONSTANTINOV, R.M.; MATERIKOV, M.P.; SOKOLOV, G.A.; STRAKHOV, N.M.; TATARINOV, P.M.; TOMSON, I.N.; SHADLUN, T.N.; SHATALOV, Ye.T.; SHIPULIN, F.K.

Oleg Dmitrievich Levitskii; obituary. Geol. rud. mestorozh. no.2: 3-6 Mr-Ap '61. (MIRA 14:5)
(Levitskii, Oleg Dmitrievich, 1909-1961)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

VOL'FSON, F.I.; LUKIN, L.I.; SOKOLOV, G.A.

In memory of Academician Sergei Sergeevich Smirnov. Geol.Rud. mestorozh. no.6:114-116 N-D '62. (MIRA 15:12)
(Smirnov, Sergei Sergeevich, 1895-1947)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

ROZIN, Mark Solomonovich; POPOV, K.M., doktor ekon. nauk, red.; SOKOLOV, G.A., doktor geol.-miner. nauk, red.; LAVRENT'YEVA, Ye.V., red.; SHAPOVALOVA, N.S., mladshiy red.; KISELEVA, Z.A., red. kart.; VILENSKAYA, E.N., tekhn. red.

[Geography of the mining industry of capitalist countries] Geografiia gornodobyvaiushchei promyshlennosti kapitalisticheskogo mira. Moskva, Geografgiz, 1962. 556 p. (MIRA 15:9)

(Mineral industries) (Geography, Economic)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.; PAVLOV, D.I.

Geochemistry of titanium during the metasomatic process. Dokl. AN SSSR 142 no.2:445-448 Ja '62. (MIRA 15:2)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR. Predstavleno akademikom D.S.Korzhinskim.

(Anzas Region—Titanium)
(Metasomatism)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A., nauchn. red.; KITAYENKO, L.G., red.izd-va; SERGEYEVA, N.A., red.izd-va; IVANOVA, A.G., tekhn. red.

[Problems in studying and methods of prospecting for hidden mineralization] Voprosy izucheniia i metody poiskov skrytogo orudeneniia; sbornik statei. Moskva, Gosgeoltekhizdat, 1963. 463 p. (MIRA 17:4)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

LEVITSKIY, O.D. [deceased]; ARISTOV, V.V.; KONSTANTINOV, R.M.; STANKEYEV, Yd.A.; SOKOLOV, G.A., prof., otv.red.; ZNAMENSKAYA, N.V., red.izd-va; GUS'KOVA, O.M., tekhn.red.

[Etyka tin ore deposit in eastern Transbaikalia] Etykinskoe olovorudnoe mestorozhdenie Vostochnogo Zabaikal'ia. Moskva, 1963. 121 p. (Akademiia nauk SSSR. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii. Trudy, no.100) (MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Levitskiy).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

ZUDIN, V.M.; YAKOBSON, A.P.; KOSTIN, I.M.; GALATONOV, A.L.; GAMAYUROV, A.I.; TSVERLING, A.L.; MALYSHEVA, T.Ya.; SOKOLOV, G.A.; RUDNEVA, A.V.; TSYLEV, L.M.; GUL'TYAY, I.I.

Effect of the sintering temperature on the mineralogical composition of sinter and its metallurgical properties. Stal' 23 no.6:481-485 Je '63. (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat i Institut metallurgii im. A.A.Baykova.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

PAVLOV, Dmitriy Igorovich; SOKOLOV, G.A., doktor geol.-miner. nauk, otv. red.; MISHINA, R.L., red.izd-va; GUS'KOVA, O.M., tekhn. red.

[Anzas magnetite deposit and the participation of chlorine in its formation] Anzasskoe magnetitovoe mestorozhdenie i uchastie khlora v ego formirovanii. Moskva, Izd-vo "Nauka," 1964. 128 p. (MIRA 17:4)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

[illegible]EVITSKIY, Oleg Dmitriyevich ([illegible]); [illegible], [illegible], doktor geologo-miner. nauk, otv. red.

[Geology of the ore deposits in Transbaikalia] Geologiia rudnykh mestorozhdenii Zabaikal'ia. Moskva, Nauka, 1964. 333 p. (MIRA 17:11)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

VLASOV, K.A.; BELOV, N.V.; VOL'FSON, F.I.; GENKIN, A.D.; GINZBURG, A.I.; LUKIN, L.I.; KORZHINSKIY, D.S.; SALTYKOVA, V.S.; SAUKOV, A.A.; SOKOLOV, G.A.; SHCHERBAKOV, D.I.; SHADLUN, T.N.

Konstantin Avtonomovich Nenadkevich, 1830-1963; obituary. Geol. rud. mestorozh. 6 no.1:123-125 Ja-F '64. (MIRA 17:11)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

BUGEL'SKIY, Yu.Yu.; VITOVSKAYA, I.V.; GODLEVSKIY, M.N.; ZVEREVA, Ye.A.; KORIN, I.Z.; NIKITIN, K.K.; NIKITINA, A.P.; PISEMSKIY, G.V.; SAPOZHNIKOV, D.G.; SOKOLOV, G.A.; CHUKHROV, F.V.; SHCHERBAKOV, D.I.; EDEL'SHTEYN, I.I.; YANITSKIY, A.A.

Il'ia Isaakovich Ginzburg, 1882?-1965; obituary. Geol.rud.mestorozh. 7 no.4:109-110 Jl-Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

OYKS, G.N.; SOKOLOV, G.A.; ZUYEV, I.M.; PETROV, V.K.; ZUBAREV, A.G.; KLIMASHIN, P.S.

Treatment of liquid transformer steel in the ladle. Stal' 25 no.8:711-715 Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G. A. Cand Tech Sci -- (diss) "Viscosity, processes of crystallization, and the mineralogical composition of primary and finished blast-furnace slags." Mos, 1957, 13 pp 22 cm. (Acad Sci USSR. Inst of Metallurgy im A.A. Baykov), 110 copies (KL, 7-57, 107)

44

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/137-58-9-18662

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 72 (USSR)

AUTHORS: Oyks, G.N., Sokolov, G.A.

TITLE: A Slag Collector (Shlakovyy kollektor)

PERIODICAL: V sb.: Primeneniye kisloroda v metallurgii. Moscow, Metallurgizdat, 1957, pp 165-172

ABSTRACT: The design of a collector furnace to smelt synthetic slag (S) for use in conversion of high-phosphorus pig iron is presented. The major component of the assembly is a rotating lined tube which constitutes the melting space (MS). The rate of rotation chosen is such that the charge materials will be retained on the tube walls by centrifugal force and will form a cylindrical bath. The pulverized, mixed charge is introduced at one end of the tube, while a high-temperature jet formed by the combustion of coke gas with heated O_2-enriched air is introduced at the other end. The jet gases passing through the CS yield heat to the charge and then pass through a slag pocket and a recuperator and finally are discharged into the atmosphere. The incline of the MS tube is such as to assure slow flow of the melted S. The finished S is collected in a collector from which it flows into a

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/137-58-9-18662

A Slag Collector

slag pot periodically by the incline of the collector. The hot zone of the MS is lined with dolomite blocks over pitch, the cold portion with fireclay brick. The shell of the MS has a boxlike structure to provide the necessary rigidity. Coolant air is pumped into the space between shell and rotary furnace. The charge for dephosphorizing S consists of final open-hearth S, limestone, and scale. The components are chosen so as to obtain a low-melting (m.p. 1300-1350°C) S having the following % contents: SiO_2 9-10, CaO 32-40, FeO 37-45.

G.S.

1. Slags--Synthesis 2. Slags--Processing 3. Furnaces--Design 4. Furnaces--Operation

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

USSR /Chemical Technology. Chemical Products and Their Application Control and Measuring Devices. Automatic Regulation. H-3

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1572

Author : Tsylev L.M., Sokolov G.A.

Inst : Institute of Metallurgy, Academy of Sciences USSR

Title : Determination of the Viscosity of Fused Slag by Means of an Electric Viscosimeter.

Orig Pub: Tr. In-ta metallurgii. AN SSSR, 1957, No 1, 33-38

Abstract: Description of the unit and the procedure for measuring the viscosity of fused slag by means of the rotational electric viscosimeter developed at the Institute of Metallurgy, imeni A.A. Baykov, of the Academy of Sciences USSR. The instrument

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

18 19 6

4E 2C

A study of viscosity of primary blast-furnace slag. N. L. Zhilo, A. V. Rudneva, G. A. Sokolov, and L. M. Tsylev. *Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk* 1957, No. 2, 27-35; *cf. C.A.* 50, 3172*h*.—The effect of alkalies and of FeO in the presence of alkali upon the viscosity of the primary blast-furnace slags was investigated. K_2O lowered the viscosity and the crystn. temp. of the acid and basic Al_2O_3-free slag. In slags contg. 5-10% Al_2O_3 higher K_2O lowered the viscosity and the crystn. temp. of the acid slags only, and had the opposite effect upon the basic slags. The optimum slag compn. with up to 5% Al_2O_3, with respect to fluidity, was CaO 35-52, SiO_2 42-8, and K_2O 0.0-17%. FeO lowered the viscosity and the slag initial crystn. temp. more strongly in acid than in basic slags. The addn. of 3-10% alkali lowered the slag viscosity with the CaO-SiO_2 ratio between 0.61 and 1.16. The alkali in the slag displaced the FeO in the fused slag, and in this way speeded up the Fe reduction. —W. M. Sternberg

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

130-3-19/22

AUTHOR: Sokolov, G.A. (Engineer)

TITLE: New type of frame for open-hearth furnace charging doors. (Novyy tip ramy zavalochnykh okon martenovskikh pechey).

PERIODICAL: "Metallurg" (Metallurgist), 1957, No.3, pp.38-39. (U.S.S.R.)

ABSTRACT: A description is given of a design of charging-door frame designed by the author together with M. Ya. Kapisnko. The frame consists of an H-shaped welded structure of seamless tubes, 219 mm in diameter and with walls 8 mm thick. Before welding the tubes are cold-rolled to an oval shape 170 x 250 mm. The water is introduced into the lower part of the "legs" and the steam-water emulsion is removed from the horizontal and vertical parts of the frame separately, along pipes which are later combined. Suitable choice of water tube cross sections prevents over heating in any part of the frame. The new frames have been continuously under test for one and a half years on one of the open hearth furnaces at the "Krasnioktyabr" works and have been found to be superior to the normal frame construction, their period of service being 7 - 8 months greater. The new construction is especially advantageous when the pressure is increased from 2 to 4.5 atm. gauge. The small weight, ease of manufacture and high reliability of the new frames has caused them to be adopted on most of the furnaces in the shop. Adoption on all furnaces is estimated to promise an economy of 70 000 roubles annually. There are three diagrams.

Card 1/1

ASSOCIATION: Moscow Institute of Steel (Moskovskiy institut stali).

AVAILABLE:

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

24-6-7/24

AUTHORS: Zhilo, N. L., Rudneva, A.V. and Sokolov, G.A. (Moscow).

TITLE: A comparison of the physico-chemical properties of primary slags in blast furnaces with their mineralogical composition. (Sopostavleniye fiziko-khimicheskikh svoystv pervichnykh domennykh shlakov s ikh mineralogicheskim sostavom).

PERIODICAL: "Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk" (Bulletin of the Ac. Sc., Technical Sciences Section), 1957, No.6, pp.37-42 (U.S.S.R.)

ABSTRACT: In this paper data are given on the phase composition and a comparison is made of the real and the specified mineralogical composition of primary blast furnace slags of cast and open hearth pig iron with their physical properties. The aim of the here described investigations was to establish the reason for the differing behaviour of K_2O in acidic and basic slags in blast furnaces. The results of investigation of the viscosity of the studied slags were described in detail in earlier work of these authors "On investigating the viscosity of primary blast furnace slags" (same journal, 1957, No.2, pp.27-35). A comparison of viscosity, temperature of crystallisation, and the phase composition of primary slags in blast furnaces has led to a clarification of the adverse effect of alkalis on the physical properties of basic slags

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

24-6-7/24

A comparison of the physico-chemical properties of primary slags in blast furnaces with their mineralogical composition. (Cont.)

in blast furnaces. The latter is explained by the formation, in the molten slag, of high temperature alkali aluminium silicates having a volume skeleton structure of anion complexes (of the type of $K_2O.Al_2O_3.2SiO_2$). The alkali aluminium silicates and alkali silicates which are formed in acidic slags have lower melting points (750 C for calcium silicates; 1170 C for orthoclase). This explains the decrease in viscosity and temperature of crystallisation when alkalis are added to acidic blast furnace slags. The formation of fusible alkali silicates, dissociating at low temperatures, can explain the decrease in viscosity and temperature of crystallisation of both acidic and basic slags in blast furnaces, in the absence of alumina. The characteristic mineralogical combinations of the real phase state of the slags, in the range which is optimal from the point of view of easy fusibility and high fluidity, indicate that these are near to the eutectic range of the studied multi-component system. There are 7 figures, 1 table and 2 Slavic references.

Card 2/2

SUBMITTED: July 28, 1956.

AVAILABLE:

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

130-9-5/21

AUTHOR: Sokolov, G.A. (Engineer)

TITLE: Reconstruction of Open-Hearth Furnaces at the "Krasnyy Oktyabr'" works. (Rekonstruktsiya martenovskikh pechey na zavode "Krasnyy Oktyabr'")

PERIODICAL: Metallurg, 1957, Nr 9, pp.11-14 (USSR).

ABSTRACT: Because of the unusual development of the "Krasnyy Oktyabr'" works since its establishment in Stalingrad in 1897 the open-hearth furnaces there have many peculiar features. This article describes furnace reconstructions effected since 1953 during routine stoppages. The changes provided for: increases in maximal firing by eliminating the lack of balance between the charge weight and the bottom area, volume of checkers and slag pockets and so on; modernisation of the reversing valves, instrumentation and automatic regulating devices; increasing the strength and rigidity of the steelwork. The furnaces dealt with are 50-ton (partly natural gas fired) and 110 ton (oil fired, air atomisation). Besides diagrams of the furnaces the article contains a table showing values before and after the reconstruction of roof and checker service lives (heats), tap-to-tap times and durations of the charging, melting and boil periods, mean charge weight, weight of steel melted per

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

130-9-5/21

Reconstruction of Open-Hearth Furnaces at the "Krasnyy Oktyabr'" works.

campaign, productivities and relative amounts of rimming, killed carbon and alloy steels melted. 1 table, 2 figures.

ASSOCIATION: Moscow Institute of Steel. (Moskovskiy Institut Stali).

AVAILABLE: Library of Congress.

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

OYKS, G. N., SOKOLOV, G. A., ANSHELES, I. I., NAN-JAO-VEN, DANILIN, V. I. and LAPSHOVA, M. G."
Moscow Institute of Steel.

"Application of the Vacuum to Improve the Alloy Steel Properties."

paper presented at Second Symposium on the Application of Vacuum Metallurgy.

1-6 July 58, Moscow

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G. A.

18(0) PHASE I BOOK EXPLOITATION SOV/1728

Akademiya nauk SSSR. Institut metallurgii

Sovremennyye problemy metallurgii (Modern Problems in Metallurgy) Moscow, Izd-vo AN SSSR, 1958. 640 p. 3,000 copies printed.

Resp. Ed.: A.M. Samarin, Corresponding Member, USSR Academy of Sciences; Eds. of Publishing House: V.S. Rzhevnikov, and A.N. Dernov; Tech. Ed.: T.V. Polyakova.

PURPOSE: This book is intended for scientific and technical personnel in the field of metallurgy.

COVERAGE: This is a collection of articles on certain aspects of Soviet metallurgy. The book is dedicated to Academician Ivan Pavlovich Bardin on the occasion of his 75th birthday. The book is divided into seven parts. The first part consists of two articles presenting a brief account of the biography and professional activity of the Soviet metallurgist. It includes an article by John Chipman, Nicholas Grant, and John Elliott (M.I.T., USA) describing their meeting with Bardin in Moscow and also his visit to the United States. The second part consists of three articles and deals with raw materials and fuels for the Soviet metallurgical industry. The third part represents the major portion of the book. It consists of 25 articles dealing with the various aspects of the metallurgy of pig iron and steel. The fourth part consists of two articles treating the metallurgy of nonferrous metals. The fifth part consists of three articles on the forming of metals. The sixth part consists of eight articles discussing certain aspects of physical metallurgy. The last part deals with general problems in the field of metallurgy. References are given after each article. No personalities are mentioned.

TABLE OF CONTENTS:

Modern Problems in Metallurgy SOV/1728

Rudnova, A.V. [Candidate of Geological and Mineral Sciences], G.A. Sokolov, and N.L. Zhilo [Candidates of Technical Sciences], and I.I. Gul'tyay [Junior Scientific Assistant, Metallurgical Institute imeni A.A. Baykov, AS USSR]. Effect of Alkalies on Phase Composition and Viscosity of Primary Blast Furnace Slags 136

Kulikov, I.S., I.Yu. Kozhevnikov, and L.M. Tsylev [Metallurgical Institute imeni A.A. Baykov, AS USSR]. Equilibrium Distribution of Sulfur Between Pig Iron and Blast Furnace Slags 149

Kremer, M.Kh. [Doctor, Engineer, Corresponding Member of the East German Academy of Sciences, Berlin]. Some Problems in Ferrous Metallurgy in the GDR [German Democratic Republic] 163

Lüdemann, K.F., and G. von Struve [Institute of Ferrous Metallurgy of the Freiberg Academy of Mining]. The Problem of Metallurgical Processes in Low-shaft Furnaces 169

Card 5/12

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

18(4) PHASE I BOOK EXPLOITATION SOV/1896

Akademiya nauk SSSR. Institut metallurgii

Metallurgiya, metallovedeniye, fiziko-khimicheskiye metody issledovaniya (Metallurgy, Study of Metals, and Physicochemical Methods of Investigation) Moscow, Izd-vo AN SSSR, 308 p. (Series: Its: Trudy, vyp. 3) Errata slip inserted. 3,000 copies printed. 1958.

Resp. Ed.: I.P. Bardin, Academician; Ed. of Publishing House: A.N. Chernov; Tech. Ed.: I.F. Kuzmin.

PURPOSE: This book is of interest to researchers in metallurgy, as well as to the technical personnel of the metallurgical industry.

COVERAGE: This volume of the Trudy (Transactions) of the Institut metallurgii imeni A.A. Baykova (Metallurgical Institute im. A.A. Baykov) contains 31 studies on metallurgy, individual metals and alloys, and physicochemical methods of investigation. Some of the studies pertain to the reduction of titanomagnetites, the viscosity and other characteristics of blast furnace slag, dislocation in metals, cracking of metals due to corrosion, simultaneous

Card ~~1/6~~

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

solubility of metals at various temperatures, apparatus for measuring electrical resistance and for determining the melting point of alloys and metals, optical spectral analysis, quantitative determinations by the sublimation method, and aging of alloys. Each study is accompanied by references.

TABLE OF CONTENTS:

Reznichenko, V.A. Reducing Titanomagnetites by Means of Carbon Monoxide and Solid Carbon 3

Tsylev, L.M., N.L. Zhilo, and G.A. Sokolov. Viscosity of Natural Primary and Final Blast Furnace Slags of Cast and Conversion Iron 35

Rudneva, A.V., N.L. Zhilo, and G.A. Sokolov. Effect of Phase Composition on the Physical Properties of Blast Furnace Slags 52

Gubin, G.V., and L.M. Tsylev. On the Reduction of Ore and Carbon Granules 63

Khodak, L.Z. Shape and Dimensions of the Combustion Zone in a Blast Furnace 69

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

Sokolov, G.A.

130-3-8/21

AUTHORS: Sokolov, G. A., Engineer and Oyks, G. N., Professor Doctor of Technical Sciences.

TITLE: New installation for the vacuum treatment of liquid steel. (Novaya ustanovka dlya vakuumirovaniya zhidkoy stali).

PERIODICAL: Metallurg, 1958, 3 No.3, pp.16-21 (USSR).

ABSTRACT: In this article a new vacuum installation in the electric steel-melting shop of the "Krasnyy Oktyabr'" Works in Stalingrad is described. The installation was designed at the works under the direction of the Moscow Steel Institute (Moskovskiy Institut Stali). V. M. Skvortsov, V. S. Kiryukhin, M. V. Podskrebov, G. I. Kozlitin are named as works-staff members who participated in the design work with institute-staff members. The installation is intended for degassing liquid steel in a ladle or during pouring from one ladle to another; it also enables steel to be top- or bottom-poured in neutral or protective atmospheres. The weight of steel treated is 12 - 20 tons. The chamber for ladle degassing (Fig.1) consists of a main cylindrical (diameter 3300 mm and height 2200 mm) chamber with a flat lid. The lid is provided with a bunker to hold additions, an inspection window and an arrangement through which steel from another teeming ladle can be

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

130-3-8/21

New installation for the vacuum treatment of liquid steel.

poured into the ladle standing in the evacuated chamber. The lid-raising mechanism is a modification of that designed by the "Dneprospetsstal'" Works. The vacuum chamber for bottom pouring consists of a base and top part 800 and 2100 mm high, respectively, with a 20 mm thick rubber ring seal. The chamber is for a three-ingot arrangement and is provided with three bunkers for exothermic mixture, an inspection window and a stoppered funnel vessel in which a layer of metal is maintained as a seal. The top part of the chamber is handled by the pouring crane. The arrangement for top pouring is that a funnel is sealed to the hot top, a bunker being provided for adding exothermic mixture, a side-arm for evacuating the system and a signalling device for the metal level. The central pumping station (Fig.4) is equipped with two PBH-60 pumps each rated at 2900 m^3/hour at 90% vacuum. The pumps can be used in series or parallel and the article describes the valve system. For improving on the 15-20 mm Hg produced by the pumps ejectors are provided and the article deals with the theory and characteristics of these and tabulates test results with steam pressures of 1 - 6.5 atm gauge.

Card 2/3 The valves used are of an original design (Fig.7) and have

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

130-3-8/21

New installation for the vacuum treatment of liquid steel.

sealing rings of paranite, this being selected after many unsuccessful attempts to use other materials. The manufacture of the rings is described, as is the cooler with a cooling surface of 3.2 m^2. The article concludes with an account of the inertial dust-catcher for protecting the pumps. These are followed by an oil filter. The whole installation is said to have worked satisfactorily since its commissioning in November, 1957, producing residual pressures of 12 - 14 mm Hg even with vigorously rimming steels.
There are 8 figures and 1 table.

ASSOCIATION: Moscow Steel Institute. (Moskovskiy Institut Stali).

AVAILABLE: Library of Congress.

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/130-58-10-5/18

AUTHORS: Sokolov, G.A., Oyks, G.N. and Ansheles, I.I.

TITLE: Vacuum Treatment of Alloy Steel (Vakuumnaya obrabotka legirovannoy stali).

PERIODICAL: Metallurg, 1958, Nr.10, pp.10-14 (USSR)

ABSTRACT: In November 1957 an installation (described in "Metallurg", 1958, Nr.3) for the vacuum treatment of liquid steel was commissioned at the "Krasnyy Oktyabr'" works. The authors describe results obtained with vacuum treatment of type 30KhGSA steel in the ladle and also during pouring. Ladle treatment of 12-ton heats was effected in 20-ton ladles to allow for the "boiling" of the metal. Observations were made continuously on the slag surface and the stopper. Initially all heats behaved rather similarly, but later some continued to boil violently while others became quieter. Because of possible damage to stopper-rod sleeves and cooling of the metal the treatment was stopped 5-7 minutes after the attainment of a vacuum of 15-20 mm Hg. Vacuum fusion of samples showed that the hydrogen and nitrogen contents decrease by 0.3-2.0 $cm^3/100$ g and 0.0007-0.003%

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/130-58-10-5/18

Vacuum Treatment of Alloy Steel.

respectively, through vacuum treatment. The metal oxygen decrease was irregular, but analyses of the gases evolved during treatment (Table 1) showed that generally 12-37% CO and CO_2 were present; interpretation of results is complicated by the presence of refractory-derived non-metallic inclusions and the determination of non-metallic inclusions is now being carried out in the finished steel. Frequency curves were constructed (Fig.2) from tests on the strength and plasticity characteristics of vacuum-treated and ordinary steels; both were better in the treated metal; the macrostructures were almost the same. In another method of treatment the vacuum was treated directly in the ingot mould (4.1 tons) during its filling from a tundish. The nozzle to the mould is initially closed with a thin steel plate, which enables evacuation to a residual pressure of 10-12 mm to be effected. The plate melts when the metal is poured on and the ingot mould is filled at a pressure of about 5-7 mm Hg in 2.5-3.0 minutes. The metal jet was seen to be irregular and bubble-evolution was observed in the metal filling the mould, especially at the walls.

Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/130-58-10-5/18

Vacuum Treatment of Alloy Steel.

The surface of ingots top-poured in this way differed little from that of ordinary bottom-poured ones. The slight blemishes on the edges of the vacuum poured ingots disappeared during heating in the soaking pits and there was rather less segregation. Comparison of the mechanical properties of rolled vacuum-treated and ordinary steel (Table 2) showed that the former was generally superior. The author urges that further improvements be made in the vacuum pouring process. There are 3 figures and 2 tables.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute).

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G. A.

ДЕГАЗАЦИЯ СТАЛИ И СПЛАВОВ

М.А.Шумилов П.В.Гельд Ф.А.Сидоренко	Некоторые особенности процесса рассыпания ферросилиция.
Р.А.Рябов П.В.Гельд	Влияние углерода на водопроницаемость стали.
Г.Н.Окороков А.Ю.Поляков А.М.Самарин	Особенности раскисления стали при дуговом вакуумном переплаве.
А.М.Самарин М.П.Кузнецов Д.П.Ульянов Л.М.Новик А.И.Лукутин	Повышение качества бессемеровских рельсов методом вакуумной обработки в ковше.
Г.Н.Ойас И.И.Аншелес Г.А.Соколов В.И.Данилин Б.З.Ковалев	Новая технология производства шарикоподшипниковой стали с применением вакуума.
П.Я.Агеев Б.Г.Чернов	Влияние легирующих на поведение кислорода и азота при плавке его в вакууме.
И.В.Полин Э.И.Серебровский	Влияние технологических факторов вакуумной дуговой плавки на снижение содержания газов и неметаллических включений в нержавеющей стали.
Т.М.Воробьева И.П.Забалуев Е.С.Калашников	Влияние вакуумирования при переплавке на ковше в ковш на качество стали ЭИ[illegible]ГСНА.

17

report submitted for the 5th Physical Chemical Conference on Steel Production, Moscow-- 30 Jun 1959.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G. A., Candidate Tech Sci (diss) -- "Degasification and reduction in the vacuum treatment of unkilled alloyed steel". Moscow, 1959. 18 pp (Min Higher Educ, Moscow Order of Labor Red Banner Inst of Steel im I. V. Stalin), 120 copies (KL, No 24, 1959, 141)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/148-59-1-6/19

18(3)

AUTHORS: Sokolov, G.A., Engineer and Oyks, G.N., Professor, Doctor of Technical Sciences

TITLE: Kinetics of Vacuum-Flow Steel Degassing in a Ladle (Kinetika protsessa degazatsii pri vakuumirovanii zhidkoy stali v kovshe)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Chernaya metallurgiya, 1959, Nr 1, pp 47-58 (USSR)

ABSTRACT: Information is given on experiments carried out in order to investigate processes of liquid steel degassing under vacuum. Smelts of "ShKh9", "ShKh15", and "30KhGSNA" grades of electric steel were investigated according to a new technology developed by I.I. Ansheles, Candidate of Technical Sciences from MIS, V.I.Danilin, and B.Z. Kononov, Engineers from the "Krasnyy Oktyabr'" Plant. Desulfurization by slag deoxidation was used to obtain steel containing only chromium, carbon, and manganese. The subsequent deoxidation of this steel under vacuum was carried out by carbon dissolving and by degassing. The quantitative evaluation of degassing kinetics was performed by a new indicator method with the use of an indicator gas containing 96 to 98% methane and 1.5 to 3.0% higher hydrocar-

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

bons. An installation used to introduce the indicator gas into the vacuum system is shown in Figure 1. Simultaneously with the investigation of degassing by the indicator method, the gas content in smeltings was determined by conventional methods. The oxygen quantity was found by analyses of "pencil" specimens (karandashnyye proby) with the use of vacuum heating and the nitrogen content was determined by chemical means. Results of analyses are given in tables. It was proved that the most intensive liberation of gas took place during the first 3 to 4 minutes of the process, when 85% from the entire gas quantity (110 to 180 l/t) were liberated. This phenomenon was caused by the bubbling of steel near the ladle walls. It was stated that during the bubbling of steel under vacuum, convective flows were forming inside the ladle, stirring the metal and speeding up the degassing process. The author presents graphs representing the gas-liberation process for various steel grades.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/180-59-2-1/34

AUTHORS: Gul'tyay, I.I., Zhilo, N.L., Rudneva, A.V., Sokolov, G.A. and Tsylev, L.M. (Moscow)

TITLE: Influence of Potassium Oxide on the Viscosity of Melts of the System Lime-Alumina-Silica in the Range Corresponding to the Compositions of Primary Blast-Furnace Slags (Vliyaniye okisi kaliya na vyazkost' rasplavov sistemy izvest'-glinozem-kremnezem v oblasti, sootvetstvuyushchey sostavam pervichnykh domennykh shlakov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Metallurgiya i Toplivo, 1959, Nr 2, pp 3-7 (USSR)

ABSTRACT: Analyses of real blast-furnace primary slags (Ref 1) show an appreciable alkali content. The effect of alkalies on the physical properties of slags with 0.5 and 10% alumina has been described by some of the authors (Refs 1,2); the present work relates to melts with about 16% alumina. The experimental method used was as previously described (Refs 2,3), the apparatus (Ref 4) being slightly modified to increase thermocouple-sheath life. The range of compositions covered was: 10.8 - 43.7% CaO; 34.1 - 55.8% SiO_2; 15.0 - 17.5% Al_2O_3; 0.0 - 23.2% K_2O; 0.21 - 1.35 CaO/SiO_2. Table 1 shows the compositions

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/180-59-2-1/34

Influence of Potassium Oxide on the Viscosity of Melts of the System Lime-Alumina-Silica in the Range Corresponding to the Compositions of Primary Blast-Furnace Slags

and viscosities at 1300, 1350, 1400, 1450 and 1500 oC and the temperatures at the start of crystallization and at a viscosity value of 60 poise. Fig 1 shows lines of equal compositions for different values of viscosity, 16% Al_2O_3 and 1450 oC. Fig 2 shows isotherms for the start of crystallization for 16% Al_2O_3 slags. The viscosity and temperature of the start of crystallization are shown in Figs 3 and 4, respectively, as functions of the lime : silica ratio for various K_2O contents. The results show that the introduction of K_2O into the slags produces an increase in viscosity and crystallization temperature, the effect being most marked with slags having high lime : silica ratios. Addition of K_2O also reduces the range of the most fluid compositions, while the slag-viscosity minimum rises from 8 to 13 poise. The authors have estimated the mineralogical compositions of their slags (Table 2). Slags with minimal viscosity at 1450°C are characterized by the predominance of

Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/180-59-2-1/34

Influence of Potassium Oxide on the Viscosity of Melts of the System Lime-Alumina-Silica in the Range Corresponding to the Compositions of Primary Blast-Furnace Slags

pseudo-wollastonite and gehlenite. With acid slag, increasing viscosity is due to formation of anorthite and free silica; with basic slags to formation of larnite.

Card 3/3 There are 4 figures, 2 tables and 9 references, 5 of which are Soviet and 4 English.

SUBMITTED: June 6, 1958

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/180-59-3-4/43

AUTHORS: Gul'tyay, I.I., Zhilo, N.L., Sokolov, G.A. and Tsylev, L.M. (Moscow)

TITLE: The Influence of Magnesia on the Physical Properties of Blast Furnace Slags

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 3, pp 20-24 (USSR)

ABSTRACT: Some results of an investigation of the influence of magnesia on the viscosity and crystallisation temperature of blast furnace slags are given. The investigation was carried out in order to obtain an optimum composition of blast furnace slags possessing a minimum viscosity and maximum desulphurising power, applicable to the operating conditions of the Magnitogorsk Works. The viscosity of slags of the system CaO - MgO - 15% Al_2O_3 - SiO_2 was studied using samples of industrial Magnitogorsk slags with additions of magnesia and, in some cases, of lime and on samples of synthetic slags made from pure oxides. The viscosity measurements were carried out in a rotating electro-viscosimeter designed by the Academy of Sciences of the USSR (Ref 13) using carbon crucibles at temperatures

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOV/180-59-3-4/43

The Influence of Magnesia on the Physical Properties of Blast Furnace Slags

of 1400, 1450, 1500 and 1550°C. The experimental results are assembled in table 1. The results obtained indicated the range of compositions of slags of the quarternary system $CaO-MgO-Al_2O_3-SiO_2$ with a minimum viscosity: CaO from 27.5 to 44%; SiO_2 from 40 to 29.5%; MgO from 5 to 20% and Al_2O_3 - 15%. The ratio of CaO/SiO_2 in these slags varies from 0.80 to 1.30 and the ratio of $(CaO + MgO)/(SiO_2 + Al_2O_3)$ from 0.82 to 1.30. In order to explain the influence of magnesia on the mechanism of the viscous flow of slags, calculations of the activation energy E_η were carried out for slags with minimum viscosity. The activation energy varies from 26.7 to 47.5 k cal/mol, whereupon the minimum value was possessed by a slag with a CaO/SiO_2 ratio of 1.01 and a $(CaO + MgO)/(SiO_2 + Al_2O_3)$ ratio of 1.15 (Fig 4). There are 4 figures, 1 table and 13 references, 7 of which are Soviet and 6 English.

SUBMITTED: September 17, 1957

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

Communication workers of the Nizhniy Tagil Metallurgical Combine. Avtom., telem.i sviaz 3 no.9:28-29 S '59. (MIRA 13:2)

1. Zamestitel' nachal'nika sluzhby signalizatsii i svyazi zheleznodorozhnogo tsekha Nizhne-Tagil'skogo metallurgicheskogo kombinata.
(Nizhniy Tagil--Railroads, Industrial)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

PHASE I BOOK EXPLOITATION SOV/4548

Akademiya nauk SSSR. Komissiya po fiziko-khimicheskim osnovam proizvodstva stali

Primeneniye vakuuma v metallurgii (Use of Vacuum in Metallurgy) Moscow, Izd-vo AN SSSR, 1960. 334 p. Errata slip inserted. 4,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A.A. Baykova. Komissiya po fiziko-khimicheskim osnovam proizvodstva stali.

Resp. Ed.: A.M. Samarin, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: G.M. Makovskiy; Tech. Ed.: S.G. Markovich.

PURPOSE: This collection of articles is intended for technical personnel interested in recent studies and developments of vacuum steelmaking practice and equipment.

COVERAGE: The book contains information on steel melting in vacuum induction furnaces, and vacuum arc furnaces, reduction processes in vacuum, and degassing of steel and alloys. The functioning of apparatus and equipment, especially vacuum furnaces and vacuum booster pumps is also analyzed. Personalities are mentioned in connection with some of the articles and will appear in the Table of Contents. Three articles have been translated from English. Some of the

Lepechkov, I.P., and S.I. Khitrik. Effect of Vacuum Treatment [in a Ladle] of the Carbonless Ferrochrome on the Amount of Its Oxide Inclusions 127

Fedorov, T.F., and F.I. Shamray. Physicochemical Principles of Vacuum-Thermic Methods of Treating Lithium 137

PART IV. DEGASSING OF STEEL AND ALLOYS

Novik, L.M., A.I. Lukutin, and A.M. Samarin. Vacuum Treatment of Bessemer Steel 145

Kuznetsov, M.P., and G.E. Tsukanov. The Effect of Vacuum Treatment in Ladle on the Properties of Bessemer Rail Steel 151

Krasovskiy, A.I., and V.D. Kodolov. The Effect of Vacuum Treatment in Ladle on the Weldability of Bessemer Constructional Steel 156

Oyks, G.N., G.A. Sokolov, I.I. Anshelas, Han Yao-wen, V.I. Danilin, and M.G. Lapshova. Use of Vacuum for Improving the Quality of Alloyed Steels 166

Markaryants, A.A., and Yu.D. Smirnov. Some Theoretical and Practical Problems of Steel Degassing 178

Chayko, N.M., A.F. Tregubenko, and Ye.I. Kadinov. The Effect of Vacuum Treatment of Metal Pouring on the Quality of ShKh15 Steel [the work was performed by the Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute) and the "Dneprospetsstal'" (Dnepr Special Electrical Steel Mill, in Zaporozh'ye) with the participation of engineers V.B. Rutkovskiy, M.P. Konishchev, T.M. Bobkov, L.U. Barash, A.N. Men', Yu.P. Shamil', A.I. Khitrik, P.A. Zhalo, Yu.P. Valovich and G.P. Parkhomenko] 189

Toleteguzov, N.V., K.N. Konovalov, A.N. Glazov, L.I. Teder, M.G. Chudoyevich, P.M. Danilov and Ye.N. Shiptinkin. Vacuum Treatment of Molten Transformer Steel and of ShKh15 Steel [A.S. Shtepa, L.S. Klimasenko, P.S. Plekhanov, V.I. Mesyats, V.Ye. Pashchenko and P.A. Mironov participated in the work] 196

Butakov, D.K., L.M. Mel'nikov, and M.Ye. Brovdo. Investigation of Vacuum-Treated Steel for Castings 205

Kainger, Z., and Z. Kletechka. [Czechoslovak People's Republic, Plzeň Plant imeni Lenin]. Use of Vacuum for Raising the Quality of Aluminum Alloys 211

Zhak, G. [Polish People's Republic, Institute of Iron Metallurgy in Glivice]. Vacuum Melting and Pouring of Alloyed Carbon Steel 219

Burtsev, V.T., R.A. Karasev and A.M. Samarin. Desulfurization of Molten Iron Alloys in Vacuum 223

Vishkarev, A.F., and V.V. Kondakov. Destruction of Nonmetallic Inclusions in the Vacuum Treatment of Steel 230

Driving, M.Ya., R.A. Karasev and A.M. Samarin. Investigation of the Kinetics of Steel Decarburization in Vacuum by Means of a Mass Spectrometer 243

Mashikhin, V.I., O.A. Yesin, and B.M. Lepinskikh. The Effect of Hydrogen and Nitrogen on the Activity of Silicon in Molten Cast Iron 248

Marmer, E.N. Investigation of Gas Liberation and Penetrability of Ceramics in Vacuum 251

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8

SOKOLOV, G.A.

Viscosity, crystallization processes, and the mineralogical composition of primary blast furnace slags. Trudy Inst. met. no.4:46-52 '60. (MIRA 14:5)

(Slag--Testing)
(Viscosimetry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010008-8"