"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Samuil Lazarevich; DRON', F.I., inzhener, nauchnyy redaktor; ROTENBERG, A.S., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy redaktor

[Walls made of large panels] Krupnopanel'nye peregorodki. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 78 p. (MIRA10:1)
(Walls) (Buildings, Prefabrication)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S. L., inzh.

New structure of ceilings. Sel'. stroi. 12 no.2:27 F '58. (MIRA 11:2)
(Ceilings)

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LEVIN, Samuil Lazarevich, inzh.; LEVCHENKO, Ye.V., inzh., red.; GVIRTS, V.L., tekhn.red.

[New designs of lightweight precast block foundations] Novye konstruktsii sbornykh fundamentov iz oblegchennykh blokov. Leningrad, 1959. 13 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'naia promyshlennost', vyp.15). (MIRA 13:4)
(Foundations) (Lightweight concrete)

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ZHUKOVETSKIY, P.A.; LEVIN, S.L.; TKACHEV, L.N., inzh., nauchnyy red.; ROTENBERG, A.S., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Using local materials in constructing houses to be built by groups of workers] Primenenie mestnykh materialov pri stroitel'stve domov kollektivami trudiashchikhsia. Leningrad, Gos. izd-vo lit-ry po stroit.arkhit. i stroit.materialam, 1959. 114 p. (MIRA 12:10)

(Building materials) (Precast concrete construction)

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Cr

9

Effect of method of deoxidation on the quality of steel. S. L. Levin. *Domez* 1933.

Nos. 2 3, 34-38.—For basic open-hearth steel, Fe-Mn is not very effective as a deoxidizer, because of the oxidizing conditions in the slag and gases, accompanying it. For this reason, where low-Mn steel is the objective, the Fe-Mn should be added in the ladle. Al is a good deoxidizer, and when used in small quantities, it will not cause slag inclusions in the steel. If the metal bath is rich in C, Mn and Si, deoxidizers are superfluous, because these impurities serve the same purpose.

S. L. Madorsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

CA 9

The problem of oxygen in steel. S. I. Lenin. *Domez* 1933, No. 4, 36-46. A review of literature and a theoretical discussion. S. I. Madorsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

A

An investigation of the 100-ton stationary open-hearth furnace. N. I. Stupar, S. L. Levin and N. A. Serebrilskii. *Domen* 1933, No. 10, 14-88, No. 11-12, 32-49.—A description is given of the structural details, operation, material and heat balance of the No. 10 100-ton open-hearth furnace at the Petrovsk plant. S. L. M.

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R

Levin, S. — APPEARANCE OF SLAG TESTS OF A BASIC OPEN-HEARTH PROCESS. *Teoriya & Prakt. Met.*, 9 [10] 18-19 (1937). With less than 30% CaO the slag surface is uneven, dull, and dark gray; with 30 to 35% CaO the surface becomes more even, dark, and glossy; and with 35 to 40% CaO the surface is smooth, dark, and very glossy. When CaO is over 40% the surface begins to crack. With 25-27 to 20-22% SiO_2 there is some bulging of the surface which becomes more pronounced at 14 to 16% SiO_2. When FeO is 18 to 22% the inner mass is porous and is surrounded by a 2 to 3 mm. dense crust. At 15 to 16% FeO the crust increases to 6 to 8 mm. and the porosity of the mass decreases, but the blowholes still remain. The same is true when FeO is reduced to 10 to 13%. With 6 to 10% FeO the fracture is dense and almost free of blowholes. A MnO_2 content of about 20% causes rippling which disappears when the MnO_2 is less than 15%.

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Chipping off during the rolling of steel plates. [illegible] Mutyev, S. L. Leyin and [illegible] N. Rabalovich. [illegible] *Prakt. Met.* 9, No. 12, 31-40(1937); *Chem. Zentr.* 1938, II, 4120.—Chipping off occurs during the rolling of wild steel if the steel subsides during solidification in the ingot molds. In order to produce a normal melt from wild steel it is necessary to use as short a smelting period as possible; to add a sufficient amt. of ferromanganese in the furnace before casting (so that the finished steel still contains about 0.4-0.47% Mn), to cast the metal 10 min. after the addn. of the ferromanganese, to add no ferromanganese in the pan and to control the slag compn. that the final FeO content is not greater than 15-20% and the ratio CaO/SiO_2 is 1.8-2.2. Even quiet steel shows chipping off if cavities are exposed during rolling. The chief cause of the production of defective ingots from quiet steel is incomplete quieting of the steel. M. G. Moore

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PROCESSES AND PROPERTIES INDEX

CA

9

The fluidities and the melting points of basic open-hearth slags. S. I. Levin. *Teoriya Prakt. Met.* 11, No. 4-5, 43-8(1939).—The detn. of the m. p. in microfurnaces (constructed by the Dnepropetrovsk Met. Inst.) is a simple and dependable method for the production control of the physical properties of slags during the open-hearth melting process. Increase of the MnO content in basic open-hearth slags increases the m. p. and, therefore, decreases the fluidity. Decrease of the m. p. of the basic open-hearth slag and, therefore, an increase of its fluidity is brought about by the increase of the alumina content to about 10%. Basic open-hearth slags have the same m. p. in an atm. of N as in air. In H the m. p. of the slag increases considerably. Increase of the Fe oxide content to 50-60% in the system $CaO-MgO-SiO_2-Fe_2O_3$ decreases the m. p. of the slag. MgO increases the m. p. of slags in the system $CaO-MgO-SiO_2-Fe_2O_3$. W. R. Henn

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9

Manganese in the basic open-hearth process. S. L. Levin and V. F. Lyaus. *Teoriya Prakt. Met.* 11, No. 10-11, 37-42(1939).—The content of Mn during melting is a criterion of the proper conditions of the melting process. A high coeff. of distribution of Mn between the metal and slag (which is detd. by the compn. of the steel and the amt. and compn. of slag) is a necessary condition for the production of high-grade steel. The main condition for the production of high-grade steel is a high temp. of the whole melting process. A decrease of Mn in the mixt. to 1% does not affect adversely the conditions of desulfurization. The other factors which affect the quality of steel are the decarbonization process, oxidizing ability of slag before deoxidation and the method of deoxidation. Optimum conditions for the production of axle steel are: a const. velocity of burning of C during the whole melting process of about 0.01% per min. when steam is used and 0.05-0.007% per min. when air is used; burning of 0.8-1.0% C between melting and deoxidation; 60-80 mm fluidity of the slag detd. by the Herty viscometer; preliminary deoxidation of the metal in the furnace by silicomanganese; drawing of the metal at not below 1540° and the beginning of pouring at 1480-1500°. W. R. Henn

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

9

The burning of carbon in open-hearth furnaces. S. I. Levin. *Teoriya Prakt. Met.* 12, No. 1, 38-41(1940).—The velocity of C burning in the open-hearth furnace is detd. by the conditions of the transfer of FeO from the slag into the metal, the chem. reaction between FeO and C dissolved in the liquid metal, the evolution of CO from the metal and the sepn. of gas bubbles in the liquid bath. The gas bubbles appear mainly at the bottom and sides of the bath and around the suspended impurities. The bubbles represent a surface for the sepn. of CO which is dissolved in the whole vol. of the bath. The greater this surface the more rapidly CO is sepd. Owing to the relatively high velocity of the reaction between FeO and C the concns. of FeO, C and CO dissolved in the open-hearth bath are near equil. During melting the value of the product of the concns. of FeO and C decreases, owing to the greater sepn. of CO. The optimum value of the velocity of C burning at the end of smelting is detd. by the content of water vapor in the furnace, depth of the bath and the temp. in the furnace. The max. rates of C burning are 0.01, 0.006-0.007 and 0.003-0.005%/min. for the shallow-bath furnaces using fuel oil atomized with steam, for shallow-bath furnaces using fuel oil atomized with air and for deep-bath gas furnaces, resp. No limestone should be added during 40-60 min. before the beginning of oxidation. The quality of steel is detd. not by the duration of boiling, but by the proper velocity of C burning in coördination with the rate of heating the bath.

W. R. Henn

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1ST AND 2ND CODERS

PROCESSES AND PROPERTIES INDEX

Ca

9

Deoxidation of killed steel. S. L. Levin and V. F. Lyaus. *Teoriya Prakt. Met.* 12, No. 7, 14-20(1940).—Difficulties are encountered in the production of high-grade killed steel deoxidized in shallow furnaces. A charge of 2 tons/sq. m. (corresponding to a 800 mm. depth of the bath) is sufficient for the production of high-grade killed steel. Preliminary deoxidation of the metal in the furnace by Si produces a smaller content of FeO in the metal and less slag inclusions. The Si is added as silicomanganese or silicospiegel. In melting high-Mn steel (chromansil) both Si and Mn can be added separately in the form of ferromanganese and blast-furnace ferrosilicon. The blast-furnace ferrosilicon must be added after ferromanganese. Blast-furnace ferrosilicon (1.8-2.0% of the wt. of the metal charge) is added about 15 min. after the blast-furnace ferrosilicon and ferrochrome. The use of ferromanganese and the blast-furnace ferrosilicon for preliminary deoxidation of medium-C steel is not recommended; silicomanganese must be used for the preliminary deoxidation. The amt. of the Si-Mn added is ded. by the content of Mn in the finished steel, the time of holding the steel, and the oxidizing ability of the final slag which ded. the magnitude of the burning of Mn. In the production of killed steel Al should be added directly to the mold. The optimum amt. of Al added to the mold contg. medium-C and chromansil steel is 200 g./ton of steel. Without the addn. of Al the steel contg. even as high as 1% of Si (and Mn 1%, Cr 1%) has a high content of O which causes the formation of blowholes. W. R. H.

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PROCESSES AND PROPERTIES INDEX

9

Reaction kinetics in the production of steel. S. Levin. *Tsvetn. Pradt. Met.* 12, No. 7, 32(1940).—A critical discussion of the paper of Agrev (*C. A.* 35, 4219). Steel production depends less on the velocities of the chem. reactions than on the velocities of those physical processes which accompany the chem. reactions; the hydrodynamics of the steel-melting bath are the deciding factor. Oxidation velocities can be considerably higher in the converter than in the open-hearth furnace. To explain the dynamics of the steel-melting processes it is necessary to det. the quant. effect of compn. of the furnace atm., compn. of the slag, η of the slag, surface tension, and atm. with gas on the velocity of the transformation of FeO into the metallic phase. It is also necessary to det. the effect of the η of the metal, the surface tension of the metal, the presence of suspended particles and gas bubbles in the metal and the mech. motion of the bath on the velocity of the sepn. of the oxidation products from the soln.

W. R. Henn

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Levin, S. L.

6000

Mechanical Properties of Basic Open Hearth Carbon Steel

S. L. Levin [illegible]

[illegible] given of an experimental investigation on the effects of casting conditions on the properties, especially the red shortness of carbon steel. The steel was deoxidized with ferromanganese [illegible] and with 45% ferro-silicon and aluminum in the ladle. Frequency curves for groups of castings free from and developing hot cracks are compared for the following factors: Ferrous oxide content of final slag, manganese sulphur in the molded steel, slag basicity, rate of burning out of carbon during the boil, carbon content of steel, quantity of iron ore added during melting, sulphur in the steel, slag fluidity, duration of charging, and duration of melting. Correlation coefficients for the apparent effects of these and other factors on the mechanical properties of castings are given. [illegible]

Metal

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S. L.

"The Effect of the Technological Melting Operation of the Open Hearth Furnace on the Hydrogen Absorption of Metals".
Nauch. Tr. Dnepropetr. Metallurg. In-ta, No 30, pp 62-69, 1953.

Shows theoretical relation between extent of hydrogen evolved and burning rate of carbon from the metal bath. Melting indexes of spring steel confirmed the above and indicated that a low hydrogen content in the molten steel results from a rapid carbon-burning rate. In order to prevent a high hydrogen content in the steel during the deoxidation period, the following steps should be taken: (1) making this period as short as possible; (2) not adding lime or other additives containing moisture; (3) adding of anhydrous deoxidants only. (RZhKhim, No 4, 1955)

SO: Sum No 884, 9 Apr 1956

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LEVIN, S. L.

12 18 15 7

Melting in open-hearth furnaces with chrome-magnesite roofs. S. L. Levin, V. I. Baptizmanskii, and N. P. Kuznetsov. *Trudy Nauch.-Tekh. Obshchestva Chernoi Met.* 4, 178-82(1955); *Referat. Zhur., Met.* 1956, No. 5181.—In the open-hearth furnace with a chrome-magnesite roof heating is more rapid, and boiling starts sooner than in a furnace with a Dinas-brick roof. The higher heating of metal insures more active desulfuration of steel. When the amt. of C in the bath reaches 0.4-0.8%, optimal conditions are established. To reach the point of 0.4% C melting is conducted without the addn. of ore. Under normal conditions 0.8% C in the bath is attained with addn. of ore.

4E2c

1/1

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

SOV/137-59-3-5080

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 27 (USSR)

AUTHORS: Chekmarev, A. P., Levin, S. L.

TITLE: Forty Years of Metallurgy at Dnepropetrovsk (Metallurgiya Dnepropetrovshchiny za 40 let)

PERIODICAL: Byul. tekhn. inform. Dnepropetr. obl. otd. O-va po rasprostr. polit. i nauchn. znaniy UkrSSR, 1957, Nr 4-5, pp 8-13

ABSTRACT: A survey is made of the development of metallurgy in the Dnepr river area from its beginning to the present time.

T. K.

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VARNAVSKIY, I.N.; MIKHAYLIKOV, S.V., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; BAPTIZMANSKIY, V.I., kand. tekhn. nauk, dots.; LEVIN, S.L., prof., doktor tekhn. nauk.; OYKS, G.N., prof., doktor tekhn. nauk; GERBER, M.S.; BIGEYEV, A.M., kand. tekh. nauk. dots.; LIFSHITS, S.I., kand. tekhn. nauk; POLYAKOV, A.Yu., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; FOFANOV, A.A., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; OGRYZKIN, Ye.M.; GONCHARENKO, N.I., kand. tekhn. nauk; ABRAMOV, B.A., nauchnyy sotrudnik; MALINOVSKIY, V.G.; LAPOTYSHKIN, N.M., kand. tekhn. nauk; AFANAS'YEV, S.G., kand. tekhn. nauk; SHUMOV, M.M., starshiy nauchnyy sotrudnik; IVANOV, Ye.V.; EPSHTEYN, Z.D., starshiy nauchnyy sotrudnik.

Discussions. Biul. TSNIICHM no.18/19:107-119 '57. (MIRA 11:4)

1. Nachal'nik konvertnogo tsekha Orsko-Khalilovskogo kombinata (for Varnavskiy. 2. Institut metallurgii Ural'skogo filiala AN SSSR (for Mikhaylikov, Abramov). 3. Direktor Ukrainskogo instituta metallov (for Goncharenko). 4. Dnepropetrovskiy metallurgicheskiy institut (for Baptizmanskiy, Levin). 5. Zaveduyushchiy kafedroy metallurgii stali Moskovskogo instituta stali (for Oyks). 6. Zaveduyushchiy laboratoriyey Yenakiyevskogo metallurgicheskogo tekhnikuma (for Gerber). 7. Kafedra metallurgii stali Magnitogorskogo gorno-metallurgicheskogo instituta (for Bigeyev). 8. Rukoboditel' konverternoy gruppy TSentral'noy zavodskoy laboratorii zavoda im. Petrovskogo (for Lifshits). 9. Institut metallurgii im. Baykova AN SSSR (for Polyakov).

(Continued on next card)

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VARNAVSKIY, I.N.---(continued) Card 2.

10. Ural'skiy institut metallov (for Fofanov). 11. Institut chernoy metallurgii AN USSR (for Ogryzkin). 12. Nachal'nik TSentral'noy zavodskoy laboratorii Yenakiyevskogo metallurgicheskogo zavoda (for Malinovskiy). 13. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Lapotyshkin, Shumov, Epshteyn). 14. Nachal'nik konverternoy laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Afanas'yev). 15. Nachal'nik laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta ogneuporov (for Ivanov).

(Bessemer process)

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SOV/137-58-9-18609

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 63 (USSR)

AUTHOR: Levin, S.L.

TITLE: On the Theory of the Oxidation of Elements During Basic Bessemer Blowing (K teorii okisleniya elementov pri tomasovskoy produvke)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr 2, pp 76-83

ABSTRACT: During blowing the oxidation of the impurities (I) contained in cast iron occurs in the zone of blowing (ZB) and in the circulation zone (CZ). Fe and C undergo oxidation in the ZB. In the CZ Si, Mn, P, and C undergo oxidation at the expense of oxygen which is dissolved in the metal. It is assumed that, in the course of blowing, the content of oxygen [O] approaches values which correspond to the equilibrium compositions with Si $[\%O]_{Si}$, Mn $[\%O]_{Mn}$, P $[\%O]_{P}$, and C $[\%O]_{C}$. Oxidation of the I is possible whenever the content of oxygen exceeds the corresponding values of $[\%O]_{Si}$, $[\%O]_{Mn}$, $[\%O]_{P}$, and $[\%O]_{C}$. In accordance with the sequence of oxidation, the basic Bessemer

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SOV/137-58-9-18609

On the Theory of the Oxidation of Elements During Basic Bessemer Blowing

smelting may be broken down into three periods: Oxidation of Si, oxidation of C, and oxidation of P. $[\%O]_{Si}$, $[\%O]_P$, and $[\%O]_{Mn}$ are computed with with the aid of the following equations:

$$\log_{10} K_{Si} = \log_{10} 1/[\%Si] \cdot [\%O]^2 = 31{,}000/T - 12.15;$$

$$\log_{10} K_P = \log_{10} (a_{Ca_4P_2O_9})/[\%P]^2 \cdot [\%O]^2 (a_{CaO})^4 = 71{,}667/T - 28.73;$$

$$\log_{10} K_{Mn-O} = \log_{10} (a_{MnO})/[\%Mn] \cdot [\%O] = 12{,}600/T - 5.73 .$$

The first equation can be employed when computing the content of oxygen in the beginning of the blowing because at that stage the metal contains suspended silicate particles. During the first period the $[\%O]_{Si}$ is smaller than the corresponding values of $[\%O]_P$ and $[\%O]_C$. For this reason Si is primarily the element which undergoes oxidation in the ZB, the Mn and C being only partially oxidized. In the second period the oxygen content is determined by the content of carbon which may oxidize in the ZB as well as in the CZ. Owing to increased temperatures, the Mn does not undergo oxidation. The intensive oxidation of the P in the third stage is governed by the relation $[O] > [\%O]_P \cdot [O]$; the equilibrium with P is determined by the P

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SOV/137-58-9-18609

On the Theory of the Oxidation of Elements During Basic Bessemer Blowing

content, the temperature, and the quantity $A = (a_{Ca_4P_2O_9})/(a_{CaO})^4$. In this instance, an increase in temperature and a reduction of P content, both favoring an increase in O content, prevail over the effect of a change in the composition of slag (reducing the A to a value of 1) which normally tends to reduce the O content. At the end of the third period, the Mn also undergoes oxidation owing to a considerable increase in the oxygen content. By employing the equilibrium reactions of Si, P, and Mn it is possible to explain the progress of oxidation of the I observed during basic Bessemer blowing. It is recommended that a similar analysis of the progress of oxidation of I be employed in developing novel engineering processes of blowing.

I.K.

1. Chemical impurities--Oxidation 2. Chemical elements--Theory 3. Oxygen--Performance 4. Mathematics

Card 3/3

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.L., prof., doktor tekhn.nauk; KONOVALOV, V.S., insh.; CHERNENKO, V.A., insh.; KUZNETSOV, M.P., insh.; SOLOGUB, S.L., insh.

Some problems of melting and pouring rimmed chromium steel. Izv.vys.ucheb.zav.; chern.met. no.10:15-22 O '58. (MIRA 11:12)

1. Dnepropetrovskiy metallurgicheskiy institut i metallurgicheskiy zavod imeni Dzerzhinskogo.

(Chromium steel--Metallurgy)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

SOV/128-58-12-4/21

AUTHORS: Levin, S.L., and Kazachkov, I.P.

TITLE: The Effect of Smelting and Deoxidation Technology on the Distribution of Sulfide Impurities in Open-Hearth Steel Castings (Vliyaniye tekhnologii vyplavki i raskisleniya na raspredeleniye sul'fidnykh vklyucheniy v otlivkakh iz martenovskoy stali)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 12, pp 7 - 8 (USSR)

ABSTRACT: Higher mechanical properties and resistance to cracks in steel casts are ensured by the disorderly spacing of sulfide impurities in the alloy. In this connection, the effect of smelting and deoxidation technology on the character of the sulfide impurity spacing in "25 - 30L" grade steel was investigated. It was proved that the ferrous oxide content in the final slag has a direct effect on the grouping of the sulfide impurities, as the increased content of ferrous oxide prevents the chain-shaped grouping of such impurities, and reduces the critical aluminum concentration in the bath. It was proved by experiments that an aluminum addition to the metal stream in casting more effective-

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SOV/128-58-12-4/21

The Effect of Smelting and Deoxidation Technology on the Distribution of Sulfide Impurities in Open-Hearth Steel Castings

ly ensures the necessary aluminum concentration than does an aluminum addition to the ladle. Satisfactory disorderly spacing of sulfide impurities was obtained by an aluminum addition of 400 g/t to the metal stream, or by adding 750 g/t aluminum to the ladle with an extra addition of 300 g/t to the metal stream. There are 4 graphs, 2 microphotos and 1 table.

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18 (5)

AUTHORS: Levin, S. L., Kazachkov, I. P. SOV/163-59-2-8/48

TITLE: Change in the Content of the Oxide Inclosures in Metals During Melting in the Open-Hearth Furnace (Izmeneniye soderzhaniya okisnykh vklyucheniy v metalle po khodu martenovskoy plavki)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 2, pp 43-47 (USSR)

ABSTRACT: The oxide inclosures in the metal samples which were taken during the melting period up to the initial deoxidation consist mainly of ferric oxide, aluminum oxide, and silicates as well as of small quantities of quartz and spinels. The rate of the carbon combustion in the boiling period exercises a decisive influence on the purification of the metals from oxide inclosures (Table 2). The data of table 2 show that the content of the oxide inclosures is reduced with the increase of the rate of the carbon combustion. The dynamics of the change in the content and in the composition of the oxide inclosures during the deoxidation period of the metal was investigated by an addition of ferromanganese, then ferrosilicon, or only ferromanganese. The content and the composition of the oxide inclosures in the steel samples in

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Change in the Content of the Oxide Inclosures in Metals During Melting in the Open-Hearth Furnace SOV/163-59-2-8/48

dependence on the added aluminum quantity were investigated and the results are given in table 5. Metal samples which were oxidized only with silicon and manganese contain mainly silicate inclosures. If aluminum is added to these samples they contain also aluminum oxide inclosures. Aluminum binds the oxygen of the steel samples in the deoxidation of the steel samples with aluminum, and aluminum occurs as impurification in the inclosures. The determination of the nonmetallic inclosures was carried out by the Engineers N. P. Spasskaya and L. Yu. Vaynshteyn and the Technician L. I. Shcheglova. There are 5 tables and 5 Soviet references.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute)

SUBMITTED: June 17, 1958

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LEVIN, S.; RYZHENKO, D.; BROMBERG, R.; KUZNETSOV, I.; CHESAK, V.; ZOLOTUKHINA, G.

Some results of the work of metallurgical plants under the new conditions. Sots.trud 4 no.9:53-59 S '59. (MIRA 13:1)
(Steel industry--Production standards)

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32600

S/137/61/000/011/032/123
A060/A101

184000

AUTHORS: Levin, S.L., Marakhovskiy, I.S.

TITLE: Reduction of lamination in armor plate made of low carbon rimmed steel

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 63, abstract 11V365 ("Sb. nauchn. tr. Dnepropetr. metallurg. in-t", no. 34, 1958, 19 - 27)

TEXT: An investigation was carried out as to the organization of an efficient smelting and casting technique for steel 08 КП (08 KP) for armor plate. It was established that the reason for the formation of laminations is the presence of nonmetallic impurities consisting of oxides with a predominant proportion of MnO, and the evolved shrink hole. In order to reduce the contamination of the sheet by lamination it is necessary that: 1) the Mn content be proportional to the C content, the optimal Mn content being 0.33-0.43%; 2) the S content should be $<0.03\%$; 3) the smelting duration should be $<$ 3 hours, the C content after the melting $>0.6\%$, the C burn-off rate during the pure boiling $>0.12\%$/hr, and during the last 45 min of pure boiling $>0.03\%$ C/hr; 4) the temperature for

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Reduction of lamination ...

pouring the steel 08KP should be between the limits 1,600-1,620°C; 5) the casting-mold temperature should be $<$ 140°C. The experimental checking of various admixtures of Al in the ladle has shown that an admixture of 200 grams/ton of steel is optimal. The pouring of steel 08KP should be carried out by the use of a siphon at a rate of 0.20-0.25 m/min and a socket diameter of 40 mm.

V. Gasilina

[Abstracter's note: Complete translation]

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LEVIN, S.L.

PHASE I BOOK EXPLOITATION SOV/5556

Moscow. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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COVERAGE: The collection contains papers reviewing the development of open-hearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, G.N. Oyks and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute)

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and M.I. Beylinov (Night School of the Dneprodzerzhinsk Metallurgical Institute). References follow some of the articles. There are 268 references, mostly Soviet.

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Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetrovskiy metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institute].

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Perchatkin, P.N. [Engineer], A.A. Bezdenezhnykh [Docent, Candidate of Technical Sciences], A.M. Bigeyev [Docent, Candidate of Technical Sciences], and V.N. Letimin [Engineer], [Magnitogorsk Mining and Metallurgical Institute]. Effect of Furnace Atmosphere on the Behavior of Sulfur During Melting in the High-Capacity Open-Hearth Furnace 361

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LEVIN, Semen Lazarevich; KOCHO, V.S., doktor tekhn. nauk, retsenzent; MYLKO, S.N., kand. tekhn. nauk, retsenzent; BORNATSKIY, I.I., kand. tekhn. nauk

[Steel smelting processes; physicochemical and technological principles] Staleplavil'nye protsessy; fiziko-khimicheskie i tekhnologicheskie osnovy. Kiev, Gostekhizdat USSR, 1963. 403 p. (MIRA 17:9)

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LEVIN, S.L.; YANKELEVICH, Ya.P.; SOLOGUB, S.L.; DUBINA, Yu.G.

Preparation of chemically capped steel. Izv. vys. ucheb. zav.; chern. met. 7 no.8:44-49 '64. (MIRA 17:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

GULIYEV, G.F.; LEVIN, S.L.; YANKELEVICH, Ya.A.

Utilizing the sulfur absorptive capacity of tap cinder in the oxygen-blown converter process of steel production. Izv. vys. ucheb. zav.; chern. met. 8 no.2:65-67 '65. (MIRA 18:2)

1. Dnepropetrovskiy metallurgicheskiy institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

YAVOYSKIY, V.I., otv. red.; BIGEYEV, A.M., red.; BORKO, Ye.A., red.; GLINKOV, M.A., red.; ZARVIN, Ye.Ya., red.; KAPUSTIN, Ye.A., red.; KOCHO, V.S., red.; KUDRIN, V.A., red.; LAPITSKIY, V.I., red.; LEVIN, S.L., red.; OYKS, G.N., red.; ROMENETS, V.A., red.; UMRIKHIN, P.V., red.; FILIPPOV, S.I., red.

[Theory and practice of the intensification of processes in converters and open-hearth furnaces; transactions] Teoriia i praktika intensifikatsii protsessov v konferterakh i martenovskikh pechakh; trudy. Moskva, Metallurgiia, 1965. 552p. (MIRA 18:10)

1. Mezhvuzovskoye nauchnoye soveshchaniye po teorii i praktike intensifikatsii protsessov v konverterakh i martenovskikh pechakh. 2. Moskovskiy institut stali i splavov (for Filippov). 3. Zhdanovskiy metallurgicheskiy institut (for Kapustin). 4. Ural'skiy politekhnicheskiy institut (for Umrikhin).

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BROVERMAN, M.V., inzh.; FAYERSHTERN, S.M., inzh.; LEVIN, S.M., inzh.; ALEKSEYEV, N.A.

Simplifying and improving the intrafactory documentation. Mashinostroitel' no.7:25-29 Jl '58. (MIRA 12:10)

1. Nevskiy zavod imeni Lenina i Leningradskiy filial Vsesoyuznogo proyektno-tekhnologicheskiy institut tyazhelogo mashinostroyeniya.
(Documentation) (Factory management)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

BROVERMAN, Mikhail Vladimirovich; LEVIN, Semen Moiseyevich; FAYERSHTERN, Natan Davydovich; NEYMARK, M.M., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Using computers in planning and organizing the production of standard parts; experience of Nevskii Machinery Plant] Primenenie schetnykh mashin v operativnom planirovanii i podgotovke proizvodstva normalizovannykh detalei; opyt Nevskogo mashinostroitel'nogo zavoda imeni V.I.Lenina. Leningrad, 1959. 21 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Organizatsiia i ekonomika proizvodstva, vyp.2). (MIRA 13:4)

(Leningrad--Machinery industry)

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AUTHOR: Levin, S.M. SOV-113-58-9-1/19

TITLE: Ways of Decreasing Labor-Consuming Control (Puti snizheniya trudoyemkosti kontrolya)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 9, pp 1-3 (USSR)

ABSTRACT: In order to economize and expedite industrial control, the author recommends the mechanization, automation and standardization of control functions. An additional incentive in the control of more important parts would be a bonus pay system. Stress should be placed on control in the receiving departments. Material storage supervisers and hands are important links in the control chain. The existing Gosts and TUs must be ammended to eliminate superfluous and repetitious points. The new regulations of the Ministry of the Automobile Industry, which were released at the time of the reorganization of industrial administrations should be made moreprecise.

There are 3 tables.

~~Card 1/2~~

Kuybyshev KATEK Plant

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LEVIN, S.M. (Leningrad); MANUSEVICH, L.G. (Leningrad)

Vector method of calculating a class of control systems. Avtom. i telem. 21 no.10:1365-1374 O '60. (MIRA 13:10)
(Automatic control)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

DRUZHINSKIY, Isaak Abramovich, kand. tekhn. nauk, laureat Stalinskoy premii; LEVIN, S.M., insh., retsenzent; CHFAS, M.A., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Methods for machining shaped surfaces on machine tools] Metody obrabotki slizhnykh poverkhnostei na metallorezhushchikh stankakh. Izd.2., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 485 p. (MIRA 14:8)
(Metal cutting)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

ABRAMOVICH, A.D., kand. tekhn. nauk; ANTONOV, M.F., kand. tekhn. nauk; KAPLAN, G.A., inzh.-ekonomist; LEVIN, S.M., inzh.-zemleustroitel'; LISTENGURT, F.M., kand. geogr. nauk; SAMOYLOV, Ya.M., kand. tekhn. nauk; SMOLYAR, I.M., kand. arkhitek.; SOLOFNENKO, N.A., kand. arkht.; STERLIGOV, V.D., kand. arkht.; FALEYEV, V.G., inzh.; Prinimali uchastiye: BUTUZOVA, V.F.; GLABINA, N.K.; GOL'DSHTEYN, A.M.; DEMYANOVSKIY, V.S.; KAPLAN, G.L.; FEDOTOVA, N.A.; TSEYTLIN, G.I.; BURLAKOV, N.Ya., red.; KOMPANEYETS, Z.N., red. izd-va; GOLOVKINA, A.A., tekhn. red.

[Regional planning of economic administrative regions, industrial regions and centers; planning guide]Raionnaia planirovka ekonomicheskikh administrativnykh raionov, promyshlennykh raionov i uzlov; rukovodstvo po proektirovaniiu. Pod red.N.IA.Burlakova. Moskva, Gosstroiizdat, 1962. 266 p. (MIRA 15:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i raionnoi planirovki. 2. Zamestitel' direktora po nauchnoy rabote Nauchno-issledovatel'skogo instituta gradostroitel'stva i rayonnoy planirovki (for Burlakov). 3. Nauchno-issledovatel'skiy institut gradostroitel'stva i rayonnoy planirovki (for Butuzova, Glabina, Gol'dshteyn, Demyanovskiy, Kaplan, Fedotova, TSeytlin).
(Regional planning)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

BARABANOV, V.Ye.; VASILEVSKIY, V.I.; LEVIN, S.M.; KOSOROTOV, B.V., red.; TRUKHINA, O.N., tekhn. red.

[Electric equipment of tractors and motor vehicles] Elektrooborudovanie traktorov i avtomobilei. Moskva, Sel'khozizdat, 1963. 390 p. (MIRA 16:12)

(Motor vehicles—Electric equipment)
(Tractors—Electric equipment)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

KOTLYAR, L.I.; GAL'PERIN, G.D.; DUDAREV, I.R.; LEVIN, S.M.

Grain-processing machinery. Izv.vys.ucheb.zav.; pishch.tekh. no.1:171-172 '64. (MIRA 17:4)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S. M.

USSR/Engineering Aug 48
Furnaces, Open Hearth
Furnaces, Blast

"Combining Trades and Functions in Blast Furnace and Martin Furnace Shops," S. M. Levin, M. D. Logovinskiy, Engineers, Ukrainian Inst of Metals, 4½ pp

"Stal'" No 8

Cycle of operations of main technological processes in blast and open-hearth furnace shops and steady increase in mechanization facilitate merging of duties. This reduces personnel required, and raises qualifications for workers.

6/49T9

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN S. M.

Author: Levin, S. M.

Title: Technical standarization organization and planning of work in ferrous metallurgy (Tekhnicheskoe normirovanie, organizatsiia i planirovanie tru a v chernoi metallurgii.) 448 pages.

City: Kharkov
Publisher:
State Printing House of Scientific and Technical Literature on ferrous and non-ferrous metallurgy.

Date: 1949

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 2, Page 99

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

[illegible] (Deceased)

Technical Normalization, Organization and Planning of Labor in Ferrous Metallurgy, Moscow, 1950

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Semen Markovich; LIBERMAN, Lazar' Meiseyevich; PRIYMAK, I.A., redaktor; AVRUTSKAYA, R.F., redaktor; VAYNSHTEYN, Ye. B., tekhnicheskiy redaktor.

[Organization of labor and technical standardization in steel industry] Organizatsiia truda i tekhnicheskoe normirovanie na predpriiatiiakh chernoi metallurgii. Moskva, Ges.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 423 p. (Steel industry) (Wages) (MLRA 9:5)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.M.

Determining the shift output of steel workers when smelted material is passed on during shift change. Stal' 16 no.1:53-56 '56. (MLRA 9:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov. (Smelting) (Steel industry)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Semen Markovich; TIMOSHPOL'SKIY, M.N.; PRIYMAK, I.A., red.

[Organization of wage payments in the ferrous metals industry; a guide] Organizatsiia zarabotnoi platy v chernoi metallurgii; spravochnik. Pod red. I.A.Priimaka. Moskva, Gos. nauchno-tekhn. izd-vo litry po chernoi i tsvetnoi metallurgii, 1959. 206 p. (MIRA 14:9)
(Wages—Steel industry) (Wages—Iron industry)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Semen Markovich; TIMOSHPOL'SKIY, Mikhail Natanovich; PRIYMAK, I.A., doktor tekhn. nauk, red.; KHUTORSKAYA, Ye.S., red.izd-va; KLEYNMAN, M.R., tekhn. red.

[Organization of wages in ferrous metallurgy; a handbook] Organizatsiia zarabotnoi platy v chernoi metallurgii; spravochnik. Pod red. I.A.Priimaka. Moskva, Metallurgizdat, 1962. 302 p. (MIRA 15:7)

(Wages—Iron and steel workers)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002

LEVIN, S. M.:

LEVIN, S. M.: "The rate of hospitalized infections among the adult population of the cities of the Karelo-Finnish SSR." First Leningrad Medical Inst imeni Academician I. P. Pavlov. Chair of the Organization of Public Health. Leningrad, 1956. (Dissertation for the Degree of Candidate in Medical Sciences).

Source: Knizhnaya letopis' No. 2 1956 Moscow

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.M.

LEVIN, S.M., kand.med.nauk

The first pharmacies in Karelia. Apt.delo 6 no.6:73-74 N-D '57. (MIRA 10:12)

1. Iz organizatsionno-metodicheskogo kabineta Respublikanskoy bol'nitsy (glavnyy vrach L.T.Filimonova), Petrozavodsk Karel'skoy ASSR.
(KARELIA--PHARMACY)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.M.

Fifth session of the Supreme Soviet of the Karelian S.S.S.R.
Zdrav. Ros. Feder. 3 no.2:47-48 F '59. (MIRA 12:2)

1. Korrespondent zhurnala "Zdravookhraneniye Rossiyskoy Federatsii."
(KARELIA--PUBLIC HEALTH)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

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LEVIN, S.M.

Eigth Republic Scientific and Practical Conference of Pediatrists.
Zdrav. Ros. Feder. 3 no.4:48-49 Ap '59 (MIRA 12:4)

1. Korrespondent zhurnala "Zdravookhraneniye Rossiyskoy Federatsii."
(PEDIATRICS--CONGRESSES)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.M.

Conference of medical personnel of the Karelian A.S.S.R. Zdrav.Ros. Fed. 3 no.10:44-45 O '59. (MIRA 13:1)
(KARELIA--MEDICAL PERSONNEL)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

VASIL'YEV, Leonid Georgiyevich; LEVIN, Samuil Mironovich; KRIVCHENOK, I.Ye., red.; POD"YEL'SKAYA, K.M., tekhn.red.

[Public Health Service in Karelia] Zdravookhranenie Karelii. Petrozavodsk, Gos.izd-vo Karel'skoi ASSR, 1960. 93 p. (MIRA 14:4)

(KARELIA--PUBLIC HEALTH)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

VASIL'YEV, L.G.; LEVIN, S.M.

Work with medical personnel in the Karelian A.S.S.R. Zdrav.Ros.Feder. 4 no.11:27-29 '60. (MIRA 13:11)

1. Zamestitel' ministra zdravookhraneniya i sotsial'nogo obespecheniya Karel'skoy ASSR (for Vasil'yev). 2. Zaveduyushchiy organizatsionno-metodicheskim kabinetom Respublikanskoy bol'nitsy Karel'skoy ASSR (for Levin)

(KARELIA--MEDICAL PERSONNEL)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.N., kand. tekhn. nauk; AMKHANITSKIY, G.Ya., inzh.; MERKIN, A.P., inzh.

Vibration in the technology of air-entrained concretes and air-entrained silicates. Stroi. mat. 9 no.5:6-7 My '63. (MIRA 16:7)

(Air-entrained concrete)
(Vibrated concrete)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

S.N. LEVIN

Subject : USSR/Chemistry AID P - 2791

Card 1/1 Pub. 152 - 19/19

Authors : Butt, Yu. M., L. M. Khavkin, S. A. Krzheminskiy, and S. N. Levin

Title : Hint, I. "O nekotorykh osnovykh voprosakh avtoklavnogo izgotovleniya izvestkovo-peschanykh izdeliy". Some fundamental problems of manufacturing sand-lime materials in autoclaves, Tallin, 1954. (Book Review)

Periodical : Zhur. prikl. khim. 28, 4, 449-452, 1955

Abstract : Critical review

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.N.

PHASE I BOOK EXPLOITATION SOV/4419

Spravochnik po mashinostroitel'nym materialam, tom 4: Nemetallicheskiye materialy (Handbook on Machine-Building Materials, Vol. 4: Nonmetallic Materials) Moscow, Mashgiz, 1960. 723 p. Errata slip inserted. 26,000 copies printed.

Ed.: G.I. Pogodin-Alekseyev, Doctor of Technical Sciences, Professor; Ed. of this vol.: A.N. Levin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V.I. Rybakova, Engineer; Tech. Ed.: T.F. Sokolova; Managing Ed. for Information Literature (Mashgiz): I.M. Nomastyrskiy, Engineer.

PURPOSE: This book is intended for machine-building and construction engineers, architects, and other persons interested in the properties of building materials.

COVERAGE: This is the fourth of a 4-volume Handbook on Machine-Building Materials. Volume 4 discusses nonmetallic materials suitable for use in machine building and in other constructional applications. Textile, wood, plastic, ceramic, rubber, and glass materials and laminates of these materials are reviewed and data on their physical and mechanical properties are listed. No personalities are mentioned. References follow individual chapters.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

Liquid glass 649
Quartz glass (Sil'vestrovich, S.I., A.N. Afanas'yev, I.M. Doronenkow, and I.Ya. Klinov) 652
Foam glass 659
Glass fiber and glass-fiber articles 662
Glass stalinite [stalinite - a very hard Soviet tool alloy] 673
Shatterproof glass ("Tripleks" [Triplex]) 676

Ch. XII. Mineral Binding Substances and Articles Made From Them (Levin, S.N., Candidate of Technical Sciences)
Building lime, air-hardening 679
Gypsum binding substances 681
Magnesia binders 684
Building lime, hydraulic 686
Parker's Roman cement 686
Portland cement 686
Aluminous cement 697
Expanding cements 700
Slag cements 701
Acid-resistant cements 704
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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

KHIGEROVICH, M.I., doktor tekhn.nauk; LEVIN, S.N., kand.tekhn.nauk; MERKIN, A.P., inzh.

Manufacture of silicate air-entrained concrete articles by vibration inflation. Stroi. mat. 7 no.9:34-37 S '61. (MIRA 14:11)
(Air-entrained concrete)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

BARBARINA, T.M.; BUBYR', N.F.; BUTT, L.M.; VEL'SOVSKIY, V.N.; GORLOV, Yu.P.; GRIBANOVSKIY, V.G.; DROZDOV, I.Ya.; YEREMIN, I.A.; ZEZIN, V.G.; KEVESH, P.D.; KOCHAROV, E.P.; KOSYREVA, Z.S.; LEVIN, S.N.; MAKHNOVICH, A.T.; MERZLYAK, A.N.; RODOV, E.S.; ROZHNOV, A.I.; SEREBRYANSKAYA, B.I.; SUKHAREV, M.F.; USTENKO, A.A.; KHOMENKO, Z.S.; SHMIDT, L.M.; ETIN, A.O.; YAKHONTOVA, N.Ye.; KITAYTSEV, Vladimir Andreyevich, prof., doktor tekhn. nauk, red.; SKRAMTAYEV, B.G., glav. red.; TROKHIMOVSKAYA, I.P., zam. glav. red.; KRAVCHENKO, I.V., red.; KITAYGORODSKIY, I.I., red.; KRZHEMINSKIY, S.A., red.; ROKHVARGER, Ye.L., red.; BALAT'YEV, P.K. red.

[Manual on the manufacture of heat insulating and acoustical materials] Spravochnik po proizvodstvu teploizoliatsionnykh i akusticheskikh materialov. Moskva, Stroiizdat, 1964. 524 p. (MIRA 18:1)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Sh.P. (Kishinev)

Use of oil dentine paste. Stomatologiia 35 no.1:54 Ja-F '56.
(DENTAL MATERIALS) (MIRA 9:6)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Sh.P.

Treatment of a retained wisdom tooth. Zdravookhranenie 4 no.4: 59-60 Jl-Ag '61. (MIRA 14:11)

1. Iz 4 gorodskoy bol'nitsy g.Kishineva (glavnyy vrach M.A.Ashumov).
(TEETH—ABNORMITIES AND DEFORMITIES)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S. R.

~~LYEVIN, S. R.~~

29697

Vyentilyatsiya pryadil'nykh i tkatskikh tsyekhov sosryedotochyennymi struyami Pyeryeuvlazhnyennogo Vozdukha. Trudy lyeningr. Tyekstil. In-ta im. Kirova, No. 2. 1949. S. 74-94.

So: Letopis' No. 40

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

1. LEVIN, S.R.

2. USSR (600)

4. Spinning Machinery

7. Increasing the operation effectiveness of pneumatic drawframe silver catchers. Tekst. prom. 12. no. 11. 1952.

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

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

PORSHNEV, I.N.; LEVIN, S.R., dotsent, kandidat tekhnicheskikh nauk, redaktor.

[Corrosion control in sanitary engineering installations] Bor'ba s korrosiei v sanitarno-tekhnicheskikh ustanovkakh. Leningrad, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 157 p. (MLRA 7:3)

(Corrosion and anticorrosives) (Sanitary engineering)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.R., dotsent, kandidat tekhnicheskikh nauk.

Revised textbook on the ventilation of textile mills.
Tekst.prom. 14 no.8:56 Ag '54. (MLRA 7:10)
(Textile factories--Heating and ventilation)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

SOV/124-57-3-2892

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 38 (USSR)

AUTHOR: Levin, S. R.

TITLE: Application of Localized Air Delivery in the Textile Industry (Primeneniye sosredotochennoy podachi vozdukha v tekstil'noy promyshlennosti)

PERIODICAL: Tr. nauch. sessii Vses. n-i. in-ta okhrany truda, 1955, Nr 4, pp 135-148

ABSTRACT: Bibliographic entry

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.R., Doc Tech Sci--(Diss) "~~Displacement~~ Movement and division of ~~flow~~ currents in branched pipe-lines of ventilation and heating systems. (Theory of processes, its experimental control, and examples of its application to the ~~computation~~ designing of air-conduits of textile factories)." Ken, 1958. 16 pp (Min of Higher Education USSR. Kos Textile Inst), 150 copies (KL,45-57,146)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.R. (Leningrad)

Hydraulic resistances in welded cross-pipes and T-pipes. Vod. i san. tekh. no. 4:14-20 Ap '61. (MIRA 14:4)
(Pipe—Hydrodynamics)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S. R., Dr. Tech. Sci. (diss) "Mixing and Separation of Flows in Branching Ventilation, Cooling, and Gas-Supply Systems," Leningrad, 1961, 19 pp (Leningrad Civil Eng. Instit) 200 copies (KL Supp 12-61, 261).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, Semen Rafailovich; GUSEVA, A.I., red.; RATTEL', K.N., nauchnyy red.; SHVETSOV, S.V., tekhn.red.

[New methods of the design and calculation of air inflow ducts for the ventilation systems of textile and light industry enterprises] Novye metody rascheta pritochnykh ventiliatsionnykh kanalov na predpriiatiiakh tekstil'noi i legkoi promyshlennosti. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 71 p. (MIRA 15:2)

(Factories--Air conditioning)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

SOROKIN, Nikolay Stepanovich; LEVIN, S.R., dots., retsenzent; KAVALERCHIK, M.ya., inzh., retsenzent; SOKOLOVA, V.Ye., red.; BATYREVA, G.G., tekhn. red.

[Suction apparatus and pneumatic conveying in textile manufacture] Aspiratsiia mashin i pnevmaticheskii transport v tekstil'nom proizvodstve. Moskva, Gizlegprom, 1963. 216 p. (MIRA 17:2)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.R.; LUKIN, Yu.A.; BIBIKOV, G.G.; SHERSTENNIKOVA, L.K.

Determining the hydraulic resistances of operating city gas mains. Gaz. prom. 10 no.4:20-22 '65. (MIRA 18:5)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

LEVIN, S.S., inzh.

Unified factory standards for diameters of plain and threaded holes. Vest. mash. 38 no.4:33 Ap '58. (MIRA 11:3)
(Standards, Engineering)

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LEVIN, S.S., inzh. (Moskva)

Approximate solution of equations of pseudoharmonic vibrations. Issl. po teor. sooruzh. no. 9:149-152 '60. (MIRA 14:1)
(Vibration)

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LEVIN, S.S., inzhener; ZHODZISHSKIY, I.L., kandidat tekhnicheskikh nauk.

Mechanical treatment of the surfaces of large panesl made of porous concretes. Stroi. i dor.mashinostr. 1 no.12:24-26 D '56.
(Concrete slabs) (MLRA 10:1)

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LEVIN, S.S.

LEVIN, S.S.

Investigating the machinability of porous concretes by cutting tools. Izv. AN Arm. SSR. Ser. tekh. nauk 10 no.5:75-82 '57. (MIRA 11:1)

1. Sverdlovskiy filial Vostochnogo Nauchno-issledovatel'skogo instituta promsoorusheniy.
(Lightweight concrete)

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LEVIN, S.S., inzhener; ZHODZISHSKIY, I.L., kandidat tekhnicheskikh nauk.

Using machinery for finishing surfaces of cellular concrete panels. Stroi. prom. 35 no.4:40-41 Ap '57. (MLRA 10:3)
(Building blocks) (Lighweight concrete)

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LEVIN, S.S. inzh.

Performance of the MS-14 gauging machine. Stroi.i dor.mashinostr. 3 no.10:30-31 O '58. (MIRA 11:11)
(Concrete construction)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

SOV/97-58-8-11/13

AUTHOR: Levin, S.S., Engineer

TITLE: Factory Finish of Cellular Concrete Products (Zavodskaya otdelka izdeliy iz yacheistykh betonov)

PERIODICAL: Beton i Zhelezobeton, 1958, Nr 8, pp 314 - 316 (USSR)

ABSTRACT: The Minsk Factory imeni K.Ye. Voroshilov has already produced 70 surface-finishing machines MS-14 (Figure 1). The machine MS-14 consists of cutting frame and table which work in automated cycle. This machine could take panels and blocks up to 3.5 m long and 2 m wide. To take units up to 3.6 m widths, the Kiyev Branch of the Giprostrommash designed a new type of surface-finishing machine. The cutting drum of the machine MS-14, which has a diameter of 1 000 mm, is illustrated in Figure 2. 8 cutting knives are fixed to this drum. The best materials for these cutting edges appear to be hard alloys, Mark VK-8. Tests showed that the smallest losses in cutting occur when the angle of the cutting instrument is 0 degrees and the main rear angle being 13 - 16° (OST VKS 6898). It was also found that the optimal speed of cutting when working cellular concrete is between the limits of 720 - 920 m/min, and the most economical speed when cutting dense concrete is within the limit of 170 - 200 m/min (Izvestiya

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Factory Finish of Cellular Concrete Products SOV/97-58-8-11/13

Ak. Nauk Armyanskoy SSR, Seriya tekh. nauk, 1957, Nr 5, article by S.S. Levin). Tests also showed that various defects in the faces of cellular concrete do not go deeper than 10 - 15 mm. Formulae for losses occurring according to the speed of the table are given. Tests showed that when surfaces of cellular concretes are worked, the speed of the table should be 2.5 - 3 mm/tooth. Figure 3 illustrates details of cutting of the concrete surface. Formula giving height of cutting is given. Figure 4 illustrates scheme of the machine MS-14 together with stand for striking formwork, as installed in a factory for cellular concretes of the Trust Nr 70 "Stroydetal'". Figure 5 - stand for striking the formwork of wall and partition panels (I.L. Zhodzishskiy, V.V. Timofeyev and V.S. Safronov collaborated with the author of this article in the construction of this stand). There are 5 figures and 2 tables.

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LEVIN, S.S., inzh.

Selecting methods for cutting porous concrete products. Prom. zdan. no.1:81-87 '59. (MIRA 13:8)
(Lightweight concrete) (Cutting machines)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000929530002-1

SOV/122-59-2-18/34

AUTHOR: Levin, S.S., Engineer

TITLE: Machining Large Reinforced Concrete Parts (Obrabotka rezaniyem krupnogabaritnykh zhelezobetonnykh detaley)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 2, p 55 (USSR)

ABSTRACT: There has been a trend recently towards replacement of heavy iron castings by reinforced concrete in Soviet machine construction. Investigations have been made to find the best form of tools and cutting parameters for machining cement-sand concrete. Tungsten carbide tools cutting at 150 to 200 m/min, with feed of 0.25 to 0.5 mm per (planing) stroke can give a class 6 finish with minimum tool wear. The front and flank angles of the tool should be 0° and 13° - 16° respectively. A graph shows specific cutting effort (kg/mm/mm^3 of material removed) versus width of cut (mm/stroke). This becomes asymtotic with feed above 1.5 to 2 mm/stroke. A formula for power requirement for end milling is given and a tabulation of surface roughness (microns) for different rates of feed (mm/stroke). There is 1 figure.

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LEVIN, S.S., inzh.

Mechanical surface treating and grooving of porous concrete panels and blocks. Trudy NIIZHB no.8:194-200 '59. (MIRA 13:4)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta promyshlennykh sooruzheniy.
(Concrete products)

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