

24-58-3-33/38

The Movement of the Gas Contour in the Exploitation of Deposits of Natural Gas.

$$Q = \frac{k_o}{\mu} m \frac{\partial p(l, t)}{\partial x} = \frac{amn\beta}{\sqrt{at}} = \frac{Q_{\text{mean}}}{2}$$

where m = strength of strata, Q_{mean} = mean outflow of gas in time

(d) Time of discharge of gas from layer

$$T = \frac{l^2}{4\beta^2 a} \quad (12)$$

For the general case of three-dimensional motion, Eq.(4) must be rewritten into three equations for the x , y and z direction, but the solution is mathematically difficult. The cases of cylindrical and spherical symmetry are not simple, and the case of a gas with non-zero viscosity is also difficult. For the pressure of gas in the layer, the non-dimensional problem may be solved, not assuming that the viscosity of the gas is small compared with that of the liquid. The equations

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The Movement of the Gas Contour in the Exploitation of Deposits of Natural Gas.

of motion follow Eq.(1) and the linearised equations of Leybenzon (Ref.2). The flow of gas and movement of the boundary may be calculated from work on fluid flow in a porous medium (Ref.5). (Complete Translation). There is 1 graph and 5 Soviet references.

SUBMITTED: March 30, 1957.

Card 6/6 1. Natural gas--Movement--Mathematical analysis

KORZHETSKIY, A.P., inzh.; VERIGIN, N.N., doktor tekhn.nauk, prof.; BINDEMAN, N.M., kand.geol-mineral.nauk; BOCHEVER, F.M., kand.tekhn.nauk; GRIGOR'YEV, V.M., kand.tekhn.nauk; MEDRIGA, V.P., kand.tekhn.nauk; SHESTAKOV, V.M., kand.tekhn.nauk.

Opinions of the book "Determining water inflow to foundation pits and designing drainage installations" by V.V. Kurilenko. Reviewed by A.P. Korzhetskii and others. Gidr. stroi. 27 no.4:61-64 Ap '58.
(MIRA 11:9)

(Soil percolation) (Drainage) (Kurilenko, V.V.).

AUTHOR:

Verigin, N. N.

S07/76-32-9-23/46

TITLE:

Diffusion at the Surface of a Solid Body Immersed in a Liquid
(Diffuziya u poverkhnosti tverdogo tela, nakhodyashchegosya
v zhidkosti)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 9,
pp 2097 - 2106 (USSR)

ABSTRACT:

The corrosion on the surface of a non-homogeneous solid body such as concrete or rock in a liquid were theoretically examined. Two limiting cases were taken into consideration:
1) Without convection of the liquid (pure diffusion)
and 2) convection along the surface with high speed (ideal convection). In working out that problem the author defines: ξ - the volume share of soluble substance; η - coefficient of retardation of the diffusion D in the zone of corrosion depending upon the porosity of the substance; P - the ratio of the difference of the saturation concentration and the initial concentration to the specific weight of the solid

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Diffusion at the Surface of a Solid Body Immersed in a SOV/76-32-9-23/46
Liquid

($P = \frac{c_m - c_0}{\delta}$; c_m - saturation concentration, c_0 - initial concentration, δ - specific weight). In case of pure diffusion there holds for $\xi = 1, \eta = 1$ and

$\frac{P}{\eta \cdot \xi^2} = 0,04$, the corrosion $\gamma = \frac{P^2}{\pi}$ (Table). In case of convection, the corrosion amounts to $\gamma = \frac{1}{2} F \eta$ for $P < 0,025$ (Fig 4). For $P < 0,025$ and $\xi < 0,1$ the increase in the solution rate is proportional to the terms ξ and $\sqrt{\frac{P}{\eta}}$.

There are 4 figures, 1 table, and 10 references, 7 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut vodosnabzheniya, Moskva
(Scientific Research Institute for Water Supply, Moscow)

SUBMITTED: April 8, 1957
Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5

VERIGIN, N.N., doktor tekhn.nauk,prof.

Evaluating subsurface water discharge of rivers. Trudy lab.
gidr.sooruzh. VODGEO no. 4:177-196 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5"

VERIGIN, N.N.

Performance of water-intake wells in nonsteady flow. Vop. fil'tr.
(MIRA 17:6)
rasch. gidr. soor. no. 4:5-24 '64.

VERIGIN, N.N. (Moskva)

Silt deposition in the end face region around a well. PMTF
no. 2:74-80 Mr-Ap '64. (MIRA 17:8)

VERIGIN, N.N.

Some problems of thermal convection in porous media. Trudy VODGEON
no.9:51-66 '64. (MIRA 18:10)

FOKIN, F.F., inzh.; BESPALOV, P.M., inzh.; RODIONOV, G.A., inzh.;
VERIGIN, N.N., prof.; KUDRYAVTSEV, G.N., inzh.;
MAR'YANSKIY, L.P., red.

[Technical conditions for planning and carrying out hydraulic engineering operations. Open and subsurface drainage of foundation pits of hydraulic structures] Tekhnicheskiy usloviya na proektirovanie i proizvodstvo gidrotekhnicheskikh rabot. Otkrytyi i gruntovyи vodootliv kotlovanov gidrotekhnicheskikh sooruzhenii. Moskva, Gosenergoizdat, 1962.
(MIRA 17:9)
101 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrologii.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5

YFRGIN, N.N. (Moscow)

"The flow of solutions and emulsions through porous medium"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January -5 February 1964

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5"

VERIGIN, N.N. (Moscow)

"Soil consolidation with external load applied to the boundary of a half-plane
and half-space"

report present at the 2nd All-Union Congress on Theoretical and Applied
Mechanics, Moscow, 29 January - 5 February 1964

VERIGIN, N. N.

"Soil consolidation under the influence of an external load normal to the boundary of half-space."

report submitted for Intl Symp on Rheology & Soil Mechanics, Grenoble, France,
1-8 Apr 64.

VERIGIN, N.N.; ORADOVSKAYA, A.Ye.; SHESTAKOV, V.M., kand.tekhn.nauk, red.

[Methodological instructions for the calculation of solution processes in saline soils in the bodies and foundations of hydraulic structures] Metodicheskie ukazaniia po otsenke rastvoreniia zasolennykh gruntov v tele i osnovaniii gidrotekhnicheskikh sooruzhenii. Moskva. Akad.stroit.i arkhit. 1960. 37 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut vodosnabzhenia, kanalizatsii, gidrotekhnicheskikh sooruzhenii i inzhenernoi gidrogeologii. Laboratoriia inzhenernoi gidrogeologii. Laboratoriia inzhenernoi hidrogeologii. Informatsionnye materialy, no.15). (MIRA 14:11)

(Hydraulic structures) (Saline and Alkali soils)

VERIGIN, N.N.

Consolidation of soil under a flexible foundation. Osn., fund.
i mekh. grun. 3 no.5:20-23 '61. (MIRA 14:11)
(Soil compaction)

VERIGIN, N.N., prof.; Priminali Uchastiye: KITSIS, R.A., inzh.;
ZHIGALIN, B.I., inzh.; AFINOGENOVA, M.V., inzh.;
VINOGRADOVA, G.M., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Methods of determining the filtration properties of rocks]
Metody opredelenija fil'tratsionnykh svoistv gornykh porod.
Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. ma-
terialam, 1962. 177 p. (MIRA 15:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodo-
snabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i
inzhenernoy gidrogeologii.

(Rocks--Permeability)

VERIGIN, N.N. (Moskva)

Soil compaction under load. PMTF no.1:95-98 Ja - F '61.
(MIRA 14:6)
(Soil stabilization)

BOCHEVER, F.M.; VERIGIN, N.N.; SAFONOV, P.V., red. izd-va; IGNAT'YEV,
V.A., tekhn. red.

[Methodological manual for calculating exploitable resources of
underground waters for water-supply purposes] Metodicheskoe po-
sobie po raschetam ekspluatatsionnykh zapasov podzemnykh vod dlja
vodosnabzhenija. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i
stroit. materialam. 1961. 198 p. (MIRA 14:9)
(Water supply)

VENIGIN, N.N., prof., doktor tekhn.nauk

Conference on underground hydraulics. Gidr. stroi. 31 no. 1:52
Ja '61. (MIRA 14:2)
(Hydraulics--Congresses)

VERIGIN, N.N., prof.

Conference on problems of underground hydraulics. Gidr. i mel.
12 no.9:59-60 S '60. (MIRA 13:9)
(Water, Underground--Congresses)

BELYYY, L.D., doktor geol.-miner.nauk; VERIGIN, N.N., doktor tekhn.
nauk, prof., ABRAMOV, S.K., kand.tekhn.nauk; LYKOSHIN, A.G.,
inzh.-gidrogeolog

Valuable generalization of experience ("Trudy" of the State
Institute for the Design and Planning of Hydraulic Structures.
No.3. Reviewed by L.D. Belyi and others). Gidr. stroi. 30
no.6:63-64 Je '60. (MIRA 13:7)
(Hydraulic engineering—Research)

ABRAMOV, S.K.; BINDEMAN, N.N.; BOCHEVER, F.M.; VERIGIN, N.N.; SAFONOV,
P.V., red.izd-va; OSENKO, L.M., tekhn.red.

[Reservoir influence on hydrogeological conditions of adjacent
areas] Vlijanie vodokhranilishch na gidrogeologicheskie usloviia
prilegaiushchikh territorii. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materialam, 1960. 318 p. (MIRA 13:7)
(Reservoirs) (Water, Underground)

VERIGIN, N.N.

[Methods for calculating the lowering of the water level in ditches
of hydraulic structures in the case of a steady seepage rate] Metody
rascheta vodoponizheniya v kotlovanakh gidrosooruzhenii pri ustano-
vivshemsia rezhime fil'tratsii. Moskva, Akad.stroit. i arkhit. 1960.
44 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut vodo-
snabzheniya, kanalizatsii, gidrotehnicheskikh sooruzhenii i inzhe-
nernoi gidrogeologii. Laboratoriia inzhenernoi hidrogeologii.
Informatsionnye materialy, no.16). (MIRA 14:11)
(Seepage) (Hydraulic structures)

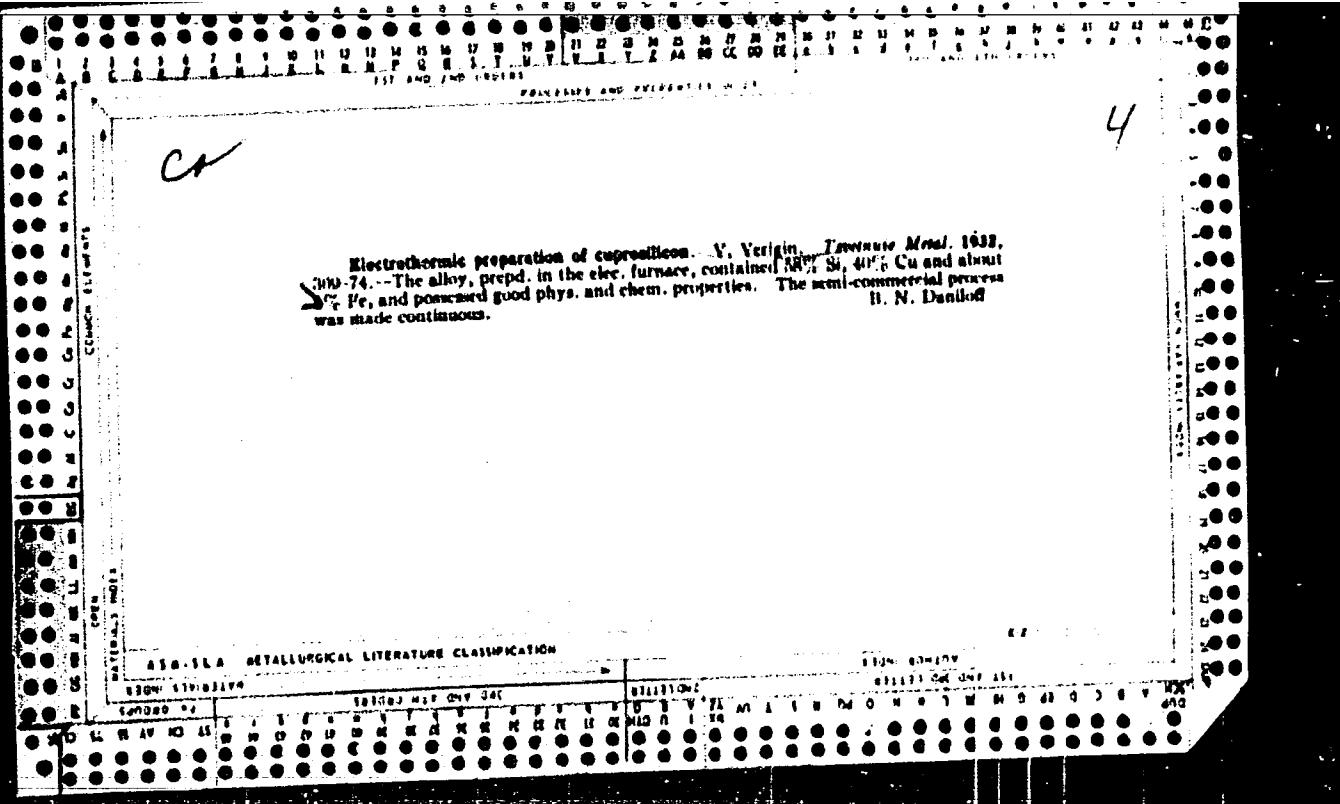
VERIGIN, N.H.

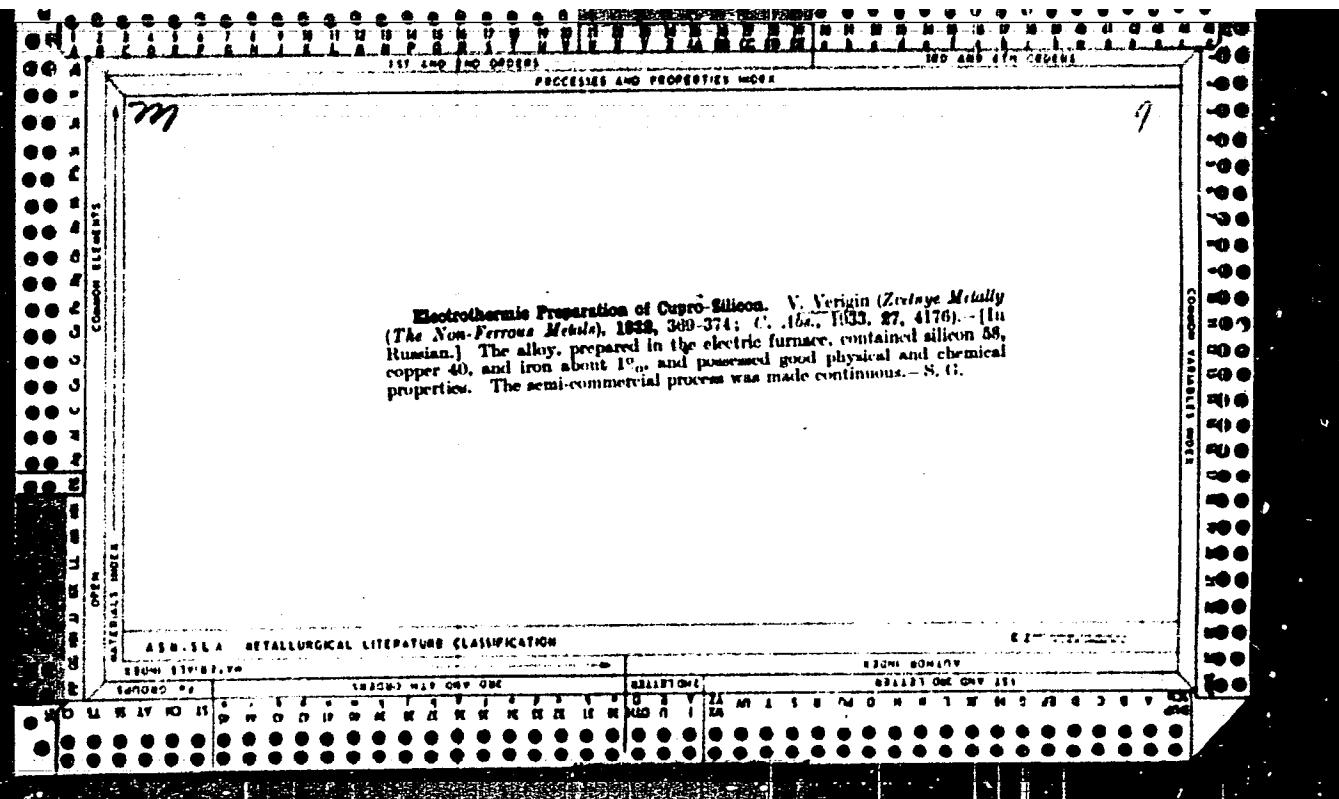
Concerning the dissolution of rock beds in underground waters.
Trudy VODGEO no. 6:7-9 '64. (MJA 18:3)

VERIGIN, P.; KOLIBABCHUK, A., nauchnyy sotrudnik.; MICHKOVSKIY, L.

Experienee of combined units in transporting sugar beets. Avt.
transp. 36 no. 7:10-11 Jl '58. (MIRA 11:8)

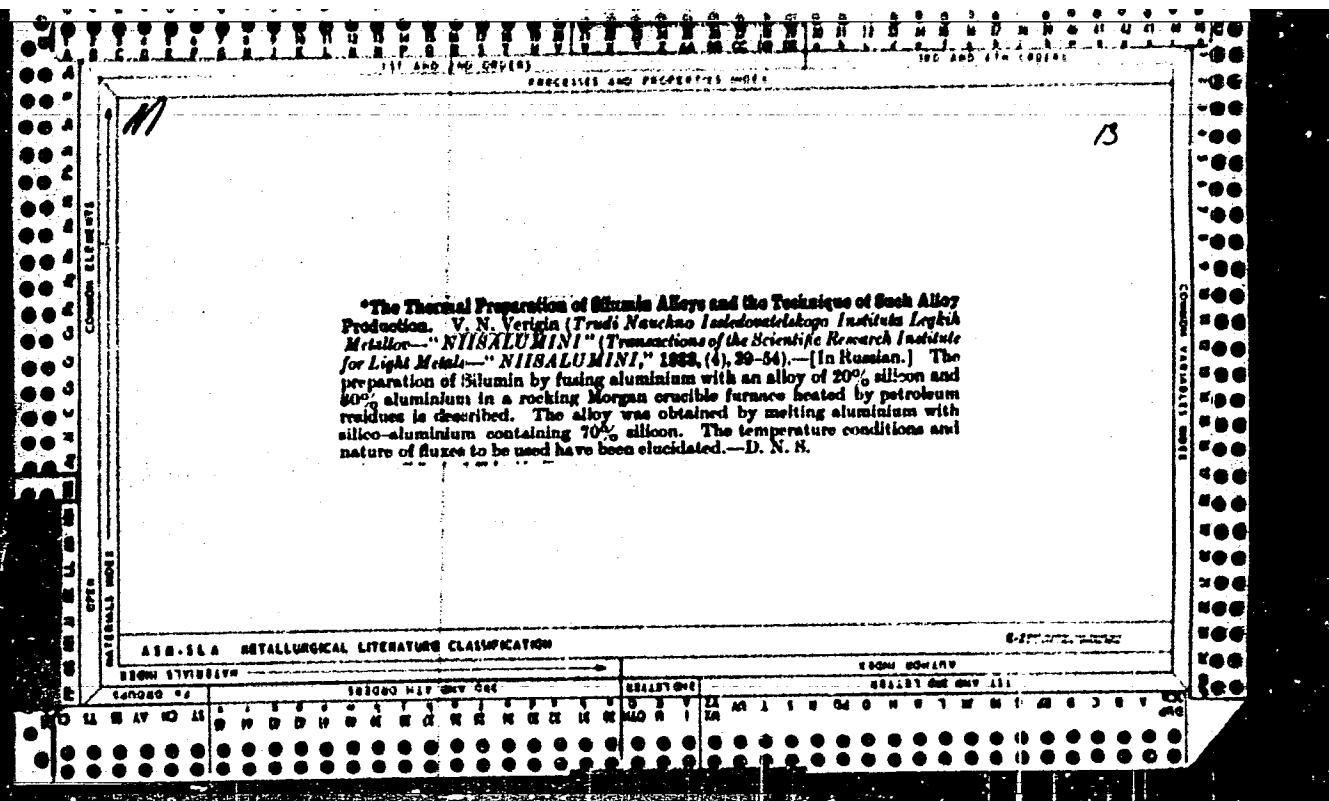
1. Upravlyayushchiy Vinnitskim oblastotrestom(for Verigin).
2. Nauchno-issledovatel'skiy institut, Ukrdortrans (for Kolibabchuk).
3. Komandir Kalinovskoy avtoroty (for Michkovskiy).
(Sugar beets--Harvesting)
(Transportation, Automotive)

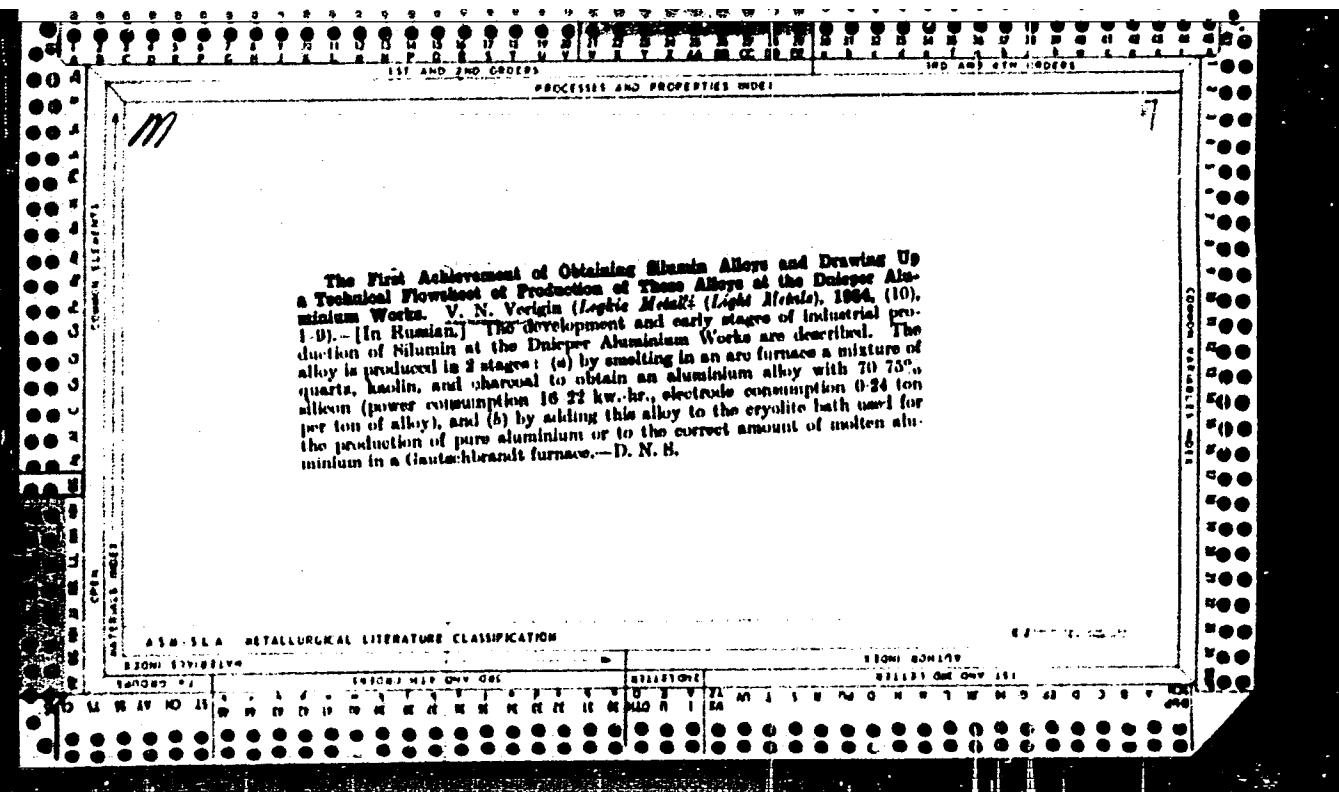




VERIGIN, V.I.

Electrothermic method for obtaining aluminum and its alloys.
Trudy Vost.-Sib. fil. AN SSSR no.13:72-85 '58. (MIRA 12:12)
1. Vsesoyuznyy alyuminiyevo-magniyevyy institut.
(Aluminum)





Aluminum metallurgy. P. G. Blaznov and V. N. Verigin, Russ. M. I., Sept. 30, 1947. Al is heated or melted in a neutral reaction zone in the presence of carbon-free reducing agents having a higher b. p. than Al that produce gaseous reaction products.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859510007-5"

A.C.S.

Refractory

Electrothermal production of silicoluminaria from kaolin. V. N. VENIGIN, Trudy Vsesoyus. Alyumin. Mys. Inst., 1949, No. 10, 3-13; Khim. Referat. Zhur., 1949, No. 6, 90-97; Chem. Abs., 36, 4750 (1942).—The experiments were carried out in carbide-type 10-kw. arc furnaces with a conducting bottom and two suspended electrodes capable of being regulated. Either natural kaolins or washed kaolins, mixed with quartz sand, were used as raw material. Wood charcoal was used as reducing agent. The material was ground to approximately 1 to 0 mm. The mixture contained a 10% excess of charcoal based on the amount calculated for combustion of C to CO. The optimum conditions of the experimental furnace were as follows: 48 v., max. 1100 amp. (with a 110-mm. diameter electrode the current density was 10.55 amp./sq. cm.). The furnace used 22.75 kw.-hr./kg. and kaolin 2.5, quartz sand 1.9, charcoal 2.09, and electrodes 0.3 kg. Heating of the furnace bottom and the rapid replacing of electrodes gave a continuous process. The final product contained an average of Si 74.68, Al 24.23, and Fe 0.09%. Furnaces requiring up to 2000 kw. consumed, per ton of the product, kaolin 1.8, quartz sand 0.9, wood charcoal 1.3, and electrodes 0.24 ton and 10,000 to 15,000 kw.-hr.

*MA**2*

"Production of Alloys Rich in Aluminium in Large-Scale Laboratory Furnaces. V. N. Verigin and N. A. Adrianov (*Izv. Vsesoyuz. Alumin-Magn. Inst. (Trans. All-Union Aluminum-Magnesium Inst.)*, 1939, (19), 16-31; *Khim. Referat. Zhur.*, 1940, (7), 74; *C. Abstr.*, 1942, 36, 5707).—[In Russian.] Experiments on the production of aluminium alloys by electrochemical reduction of bauxites, aluminite, and kaolin in a 60-kw. laboratory furnace, indicates that alloys containing 40-70% of aluminium (depending on the content of iron in the mixture) can be obtained at 20 to 25 kw.-hr./kg. Optimum results were obtained with aluminium-silicon-iron alloys containing aluminium 45-50, silicon 33-40, and iron 13%. With a lower content of iron, the aluminium can be brought to 70%. Alloys higher in aluminium cannot be produced without the formation of considerable amounts of carbides. Anthracite, brown coal, and peat coke can be used as reducing agents instead of charcoal. The performance of the furnace, the calculation of the mixture, the amounts of reducing agents used, and the consumption of electric energy under various conditions, are given.

1917

MA

2

*Electrothermal Production of Aluminum-Silicon Alloys Rich in Aluminum.
V. N. Vrigun and N. A. Adianov (*Trudy Vsesoyuz. Alyumin.-Magn. Issled.*
(Trans. All-Union Aluminum-Magnesium Inst.), 1959, (19), 81-86; Khim.
Referat. Zhur., 1960, (7), 75; O. Abo., 1962, 38, 5707.)—[In Russian.] Ex-
periments on the electrothermal reduction in a 600-kw. DAZ arc furnace,
with subsequent separation of Silumin (aluminum + 12.5% silicon) by the
method of filtration, indicate that alloys containing approx. 70% of aluminum
(the remaining components being silicon, iron, and titanium) can be obtained
under production conditions. The yield of metal was 75-85%, with an
average power consumption of 16 kw.-hr./kg.

1943

DANTSIS, Ya.B., kand. tekhn. nauk; MITROFANOV, N.N., inzh.; SIROTKIN, N.N.,
inzh.; BRUSAKOV, Yu.I., inzh.; VERIGIN, V.N., kand. tekhn. nauk

Electrical characteristics and principal indices of electric
furnaces for manufacturing aluminum-silicon alloys. Prom.
energ. 21 no. 1s39-44 Ja '66 (MIRA 1981)

ACC NR: AP7005597 (A) SOURCE CODE: UR/0413/67/000/002/0023/0024

INVENTOR: Verigin, V. N.; Tkachenko, V. A.; Varyushenkov, A. M.

ORG: None

TITLE: A method for producing technically pure silicon. Class 12, No. 190356
[announced by the All-Union Scientific Research and Design Institute of the Aluminum,
Magnesium and Electrode Industry (Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy
institut aluminiiyevoy, magniyevoi elektrrodnoi promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 23-24

TOPIC TAGS: silicon, metal purification, quartz

ABSTRACT: This Author's Certificate introduces: 1. A method for producing technically pure silicon by reduction of silicon-containing raw material. To provide a wider range of raw materials and reduce the cost of the product, a silicon-containing material such as quartzite fines or quartz sand is mixed with a reducing agent such as green and partially metamorphosed minerals, coal with poor sintering properties, lignin or products formed by low-temperature carbonization or coking of these materials. The resultant silicon is then pressed and subjected to conventional treatment. 2. A modification of this method with intensification by conducting the reduction process in the presence of organic additives, specifically wastes from the wood processing industry as briquets or in some other form.

SUB CODE: 11, 07/ SUBM DATE: 16Jan65

UDC: 546.28-121

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BUKH, Igor' Naumovich; VERIGIN, V.N.; ZAYCHIKOV, V.V.; LEONOVA, L.N.;
POLOSINA, G.V., red.; PYATAKOVA, N.D., tekhn. red.

[Electronic multiplying attachment for the T-5MU tabulator;
a transistorized device] Elektronnaia umnoshaiushchaya pri-
stavka k tabuliatoru T-5mu; ustroistvo na poluprovodniko-
vykh priborakh. Moskva, Gosstatizdat, 1963. 116 p.
(MIRA 16:8)

(Electronic computers)

STRELETS, Kh.L.; TAYTS, A.Yu.; GULYANITSKIY, B.S.; PAZUKHIN, V.A., prof., doktor tekhn.nauk, retsenzent; KHEYFITS, Ya.M., kand.khim.nauk, retsenzent; VERIGIN, V.N., kand.tekhn.nauk, retsenzent; FISHER, A.Ya., kand.tekhn.nauk; retsenzent; TSENTER, Ya.A., kand.tekhn. nauk, retsenzent; MARKOV, G.S., inzh., retsenzent; KRIVORUCHENKO, V.V., inzh., retsenzent; CHERNOBROV, S.M., red.; ARKHANGEL'SKAYA, M.S., red.izd-va; KLEYMAN, M.R., tekhn.red.

[Magnesium metallurgy] Metallurgiya magniia. Izd.2., perer. 1 dop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 479 p. (MIRA 13:5)
(Magnesium--Metallurgy)

VERGIN, V.N.

X-5)

PAGE 2 BOOK REFERENCE

REV/2/59

Industries and Min. Technology in the USSR, Vol. 2 (Light Metal Industries of Soviet Russia), Min. E. N. Economy, 1958, pp. 1-200 pages printed.

Technical Report: Dr. A. A. Kuznetsov, Dr. P. A. Sosulin, V. I. Shender, A. F. L. Doctor of Geological and Mineral Sciences and Dr. I. V. Gulyayev (Inst. of Geology, Min. E. N. Economy) and Institute No. 1 of Geology and Mineral Resources, Min. of Geology, USSR.

Note: This issue of the Soviet Min. Review Transactions is of interest to research, exploration and mining geologists, mineralogists, and metallurgists in the light metal industry.

Comment: This collection of articles is a compilation of the reports presented at the USSR Geologists' Conference on "The Creation of a Light Metal Industry" in October 1956. It contains analyses of the Soviet Aluminum Plants of the Al USSR in October 1956. It also gives the picture of present coordination between the activities of the power generation ministries and the best developed light metal industry of Northern Siberia. The report indicates that large aluminum and titanium industries are being constructed in the Far East. They and the industrial centers they serve provide the basic sources of coal, coke, titanium, oil, gas, etc. Individual articles have reports on the following subjects:

Author: A. A. Kuznetsov, and V. I. Gulyayev. Distribution

Results of Metal-Working Aluminum Plants

Author: Dr. B. Sosulin. Properties of Commercially Available Series

Report: Dr. A. A. Kuznetsov. Electrochemical Preparation of the Aluminum

Alloy, and Dr. V. I. Gulyayev. Physicochemical Properties of the

Aluminum Oxide. Increasing the Utilization of the

Electrochemical Impurity

Author: Dr. A. A. Kuznetsov. Electrochemical Preparation of the Utilizable

Alloy, and Dr. V. I. Gulyayev. Electrochemical Preparation of the Utilizable

Alloy, and Dr. V. I. Gulyayev. Increasing the Utilization of the

Aluminum Oxide. Increasing the Utilization of the Aluminum

Oxide. Increasing the Utilization of the Aluminum Oxide. The

Author: Dr. A. A. Kuznetsov. Increasing the Utilization of the Aluminum

Oxide. Increasing the Utilization of the Aluminum Oxide. The

Author: Dr. A. A. Kuznetsov. Increasing the Utilization of the Aluminum

Oxide. Increasing the Utilization of the Aluminum Oxide. The

Author: Dr. A. A. Kuznetsov. Increasing the Utilization of the Aluminum

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Author: Dr. A. A. Kuznetsov. Increasing the Utilization of the Aluminum

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SOV/137-59-3-5506

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 81 (USSR)

AUTHORS: Bershteyn, Ya. A., Verigin, V. N.

TITLE: Electrothermics in the Aluminum Industry (Elektrotermiya v aluminievoy promyshlennosti)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 69-75

ABSTRACT: Immediate production of pure Al by direct reduction of Al_2O_3 with carbon in an ore-reduction furnace is impossible. Hence, the process is carried out in two stages: In the first stage of the process the smelting of electrothermal Si-Al alloy (up to 70% Al) is carried out. In the second stage the primary alloy obtained is reprocessed into Al alloys for the preparation of structural Al alloys or technically pure Al. The effectiveness of the process to a great extent depends on the utilization of high-silicon Al alloys (siliceous residues), which inevitably form as byproducts in the processing of primary Si-Al alloys into Al and its alloys. Calculations show that preparation of Al by the electrothermal method is most effective when the primary Si-Al alloys obtained are reprocessed into various casting alloys which usually contain Si as a necessary component. In the

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SOV/137-59-3-5506

Electrothermics in the Aluminum Industry

preparation of Silumin alloy and technically pure Al from primary electrothermal alloys a decrease in the specific consumption of energy by 87 - 93%, in specific capital expenses by 67 - 73%, and in cost by 76 - 85%, with an increase in labor productivity of up to 141 - 109%, are expected in comparison with the existing methods.

I. G.

Card 2/2

VERIGIN, V.N.

137-58-5-9265

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 69 (USSR)

AUTHOR:

Verigin, V.N.

TITLE:

Electrothermics, a Promising Method for Production of Aluminum and its Alloys (Elektrotermiya i perspektivnyy metod poluchenija aluminija i yego splavov)

PERIODICAL: Sb. materialov i tekhn inform. Gos. in-t po proyektir. alumin., magniyevyh i elektrodn. z-dov, 1957, Nr 1, pp 21-32

ABSTRACT: Al and Al carbide are produced in the process of reduction of Al_2O_3 with coal. Mutual solubility of Al, Al carbide, and Al_2O_3 promotes the formation of a very tough, refractory oxycarbometallic material which has no practical value. It is for this reason that the thermal method of producing pure Al has not yielded any positive results to date. The problem of obtaining pure Al by thermal treatment was solved by the All-Union Institute for Aluminum and Magnesium by means of a two-stage process. The first stage involves ore-reduction smelting of the primary Si-Al melt by electro-thermal methods, while in the second stage this melt is changed into various Al alloys to be used in the manufacture of structural Al alloys or in the production of

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137-58-5-9265

Electrothermics, a Promising Method (cont.)

commercially pure Al. The primary melts are obtained from such raw materials as alumina-bearing substances (kaolines, kyanites, andalusites, sillimanites, corundums, diaspores, etc.) which have been thoroughly intermixed and briquetted with reducing agents (lignite and young coal, as well as charcoal and peat coke). The smelting of briquets produces a primary Si-Al melt containing about 70% Al. According to one system, the melt is diluted with Al to silumin composition after which it is alloyed with Mn and is filtered at a temperature of 575°C; silumin and filter residue are the resulting products. Another system calls for partial separation of Si by means of decantation (or filtration) of the primary melt at a temperature of 675°; the decantate is alloyed with Al to a silumin composition, after which it is alloyed with Mn and subjected to filtration in order to segregate impurities. With the aid of Zn it is also possible to convert the decantate, obtained at 675° from the primary melt, to a siliceous Al containing 2-3% of Si. Pure Al is produced by means of employing Mg for refining of siliceous Al obtained with the aid of Zn from the primary melt.

1. Aluminum--Purification 2. Aluminum--Production 3. Aluminum
alloys--Production 4. Electric furnaces--Effectiveness

I.G.

Card 2/2

Verigin, V.N.

ALEKSEYEV, N.S.; BELYAYEV, A.P.; BUGAREV, L.A.; BUTOMO, D.G.; VASIL'YEV, Z.V.;
VERIGIN, V.N.; VOROB'YEV, G.M.; GAYLIT, A.A.; GOL'SHTEYN, P.M.;
GOIKSHTEYN, M.B.; ZHOLOBOV, V.V.; ZEDIN, N.N.; IVANOV-SKOBLIKOV, N.I.;
KUTEPOV, Ya.V.; LANDIKHOV, A.D.; MARAYEV, S.Ye.; MILLER, L.Ye.;
OL'KHOV, N.P.; PERLIN, I.L.; POSTNIKOV, N.N.; ROZOV, M.N.; CHERNYAK, S.N.;
CHUPRAKOV, V.Ya.; TSENTER, Ya.A.

Vladimir Oskarovich Gagen-Torn; obituary. TSvet.met. 27 no.5:67-68
(MIRA 10:10)
S-O '54.

(Gagen-Torn, Vladimir Oskarovich, 1888-1954)

BRUSENTSOV, N.P.; ZHOGOLEV, Ye.A.; VERIGIN, V.V.; MASLOV, S.P.; TISHULINA,
A.M.

Small-size automatic digital computer "Setun'." Vest. Mosk. un.
Ser. 1: Mat.,mekh. 17 no.4:3-12 Jl-Ag '62. (MIRA 15:7)
(Electronic digital computers)

ACCESSION NO. A1000000

TYPE CIRCUITS OVER SEVERAL ADVANTAGES. ONE WHICH IS OF GREAT IMPORTANCE IS THE POSSIBILITY OF EXHIBITION OF HIGH RATIO OF OPERATING TEMPERATURE TO SIMILAR LOAD. IN OTHER WORDS, THE CIRCUIT CAN BE MADE TO WORK AT A LOWER TEMPERATURE THAN THE LOAD. THIS IS OF GREAT USE IN REDUCING SIZE AND WEIGHT OF EQUIPMENT. ANOTHER ADVANTAGE IS THAT THE CIRCUIT CAN BE MADE TO WORK AT A LOWER TEMPERATURE THAN THE LOAD. THIS IS OF GREAT USE IN REDUCING SIZE AND WEIGHT OF EQUIPMENT.

ASSOCIATION None

SUBMITTED: 20 SEP 64

SUB CODE EM, SP

NO REF GOV. 000

KRYSHOVA, N.A.; VERIGINA, A.S.; KIRPIKINA, M.D.

Studies on the effect of the curariform preparation Mydeton
in diseases of the nervous system with increased muscle tonus.
(MIRA 17:4)
Vop.psikh.i nerv. 8:378-382 '62.

VERIGINA, I.A.

Histological structure of the intestines of Hypophthalmichthys molitrix and Ctenopharyngodon idella. Sbor. trud. Zool. muz. MGU 8:189-195 '61. (MIRA 15:5)
(Amur River—Hypophthalmichthys) (Amur River—Ctenopharyngodon)
(Digestive organs—Fishes)

VERIGINA, I. G.; VDOVENKO, V. M.; KOVALEVA, T. V.

Electric conductivity of ether solutions of the uranyl nitrate.
Trudy Radiev. inst. AN SSSR 8:38-46 '58 (MIRA 12:2)
(Uranyl nitrate) (Electric conductivity)

VERIGINA, K.V., kand. geologo-mineral. nauk

Use of instrumental and continuous methods in agrochemical
laboratories. Zhur. VKHO 10 no.4:423-427 '65.
(MIRA 18:11)

VERIGINA, K.V.

Comparative evaluation of the methods for determining the exchangeable calcium and magnesium in carbonate rich soils and soils containing gypsum. Pochvovedenie no.9:96-103 S '64. (MIRA 17:12)

1. Pochvennyy institut imeni V.V.Dokuchayeva, AN SSSR, Moskva.

VERIGINA, K.V.

Trace element content of soils of the Klin-Dmitrov Ridge.
Pochvovedenie №.9:1/-24 S '62. (MIRA 16:1)

1. Pochvennyy institut imeni V.V.Dokuchayeva i Yuzhnyy
gosudarstvennyy institut po proektirovaniyu vodnogo khozyaystva.
(Klin-Dmitrov Ridge--Soils--Composition)

ANTIPOV-KARATAYEV, I.N., akademik, otv.red.; TYURIN, I.V., glavnnyy red.; GORBUNOV, N.I., red.; VERIGINA, K.V., red.; ZONN, S.V., red.; IVANOVA, Ye.N., red.; KEDROV-ZIKHMAN, O.K., red.; KONONOVA, M.M., red.; LOBOVA, Ye.V., red.; MISHUSTIN, Ye.N., red.; RODE, A.A., red.; ROZANOV, A.N., red.; SOKOLOV, A.V., red.; FRIDLAND, V.M., red.; SHUVALOV, S.A., red.; YEFIMOV, A.L., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Reports of Soviet soil scientists to the 7th International Congress in the U.S.A.] Doklady sovetskikh pochvovedov k VII Mezhdunarodnomu kongressu v SSSR. Moskva, Izd-vo Akad.nauk SSSR, (MIRA 13:10) 1960. 487 p.

1. International Congress of Soil Science. 7th. 2. AN Tadzhikskoy SSR (for Antipov-Karatayev). 3. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk SSSR, Moskva (for Antipov-Karatayev, Gorbunov, (Continued on next card)

ANTIPOV-KARATAYEV, I.N.---(continued) Card 2.

Ivanova,,Kononova, Rozenov,,Fridland, Sokolov).. 4. Laboratoriya
lesovedeniya Akademii nauk SSSR, Moskva (for Zonn). 5. Vsesoyuznyy
nauchno-issledovatel'skiy institut udobreniy i agropochvovedeniya
Vsesoyuznoy ordena Lenina Akademii sel'skokhoz.nauk imeni V.I.Lenina
i Institut zemledeliya akademii sel'skokhoz.nauk Belorusskoy SSR (for
Kedrov-Zikhman). 6. Institut mikrobiologii Akademii nauk SSSR, Moskva
(for Mishustin). 7. Nauchnyy institut po udobreniyam i insektofungi-
tsidam im. Ya.V.Samoylova, Moskva (for Sokolov).

(Soil research)

VERIGINA, K.V.

Review of the reports of the Soil Fertility Section of the First
Conference of Soil Scientists. Pochvovedenie no.3:113-117 Mr '59.
(MIRA 12:11)

(Soil fertility)

COUNTRY : USSR
CATEGORY : Soil Science. Soil Genesis and Geography.
ABS. JOUR. : RZhBiol., No.3 1959, No. 10650
AUTHOR : K. V. Veriginu
INST. : -
TITLE : On the Characteristics of Soil Formation Under Forest
and Arable Land in Kaliningradskaya Oblast'.
ORIG. PUB. : Pochvovedeniye, 1958, No. 5, 22-32
ABSTRACT : The soil solutions of the cultivated and forest turf-
podzolic soils of Kaliningradskaya oblast' differ in
composition and the degree of mineralization. The
composition of soil solutions of the forest soil varies
considerably in genetic horizons, but changes little with
time. The composition of soil solutions of plowland soil
more homogeneous in profile but in times varies a great
deal. The chief component of the soil solutions of the

CARD:1/2

4

COUNTRY :	J
CATEGORY :	
ARS. JOUR. :	RZhBiol., No. 1959, No. 10650
AUTHOR :	
INST. :	
TITLE :	
ORIG. PUB. :	
ABSTRACT :	forest soils is organic matter which predominates over the mineral residue. In spring, the nitrate content in the soil solutions of plowland soil decreases and parallel to this the C content drops. No nitrates were found in the forest soils. In the soil solutions of forest soils, the two-valence Fe is constantly present. It is absent in the solutions of plowland soils. -- K. V. Verigina
CARD: 2/2	

~~VERIGINA, K.V.~~

Characteristics of soil formation under forests and plow in
Kalininograd Province. Pochvovedenie no.5:22-32 My '58. (MIRA 11:6)

1.Pochvennyy institut im. V.V. Dokuchayeva AN SSSR.
(Kalininograd Province--Soil formation)

CH VERIGINA, K.V.

Migration and accumulation processes of iron in soil formation. K. V. Verigina. *Vody Pochvanoz Inst. im V. I. Detschikova* "34", 100-201(1951). - The problem was studied on podzolic and marshy soils. The ground water contained 3-4 mg. Fe per l., while soil solns. contained 6-8 mg. Fe/l. The highest concn. of Fe, up to 200 mg./l., was encountered in bogs formed by springs. The accumulation of Fe there was attributable primarily to reduction of sulfates. The accumulation of Fe promotes the formation of saline soils impregnated with Fe at the periphery of marshes. The characteristics of these solonchaks were a low pH (approx. 2) and an accumulation of Fe(OH)_3 and vivianite. The accumulation of salts in the soil soln. of ferruginous solonchaks reached several g./l. and it contained FeSO_4 (under anaerobic conditions), $\text{Al}_2(\text{SO}_4)_3$, MnSO_4 , and CuSO_4 . The pH of the soil soln. was somewhat higher than that of the soil. The highest concn. of salt which the soil soln. attained occurred in the spring and became lowest in fall, primarily because of pptn. of Fe oxides. When Fe accumulated in spring marshes and finds its way into lakes it becomes one of the main sources of lake-ore formation. M. Il'ichev

VERIGINA, K. V.

N/5
632.892
.V5

Agrokhimicheskiy analiz pochv v
laboratoriakh mts (soil analysis in machine-tractor station laboratories) Moskva, Izd-vo Akademii Nauk SSSR, 1954.
85 P. illus., diagrs., tables.
"Literatura": P. (86)

VERIGINA, K. V.

Verigina, K. V. - "On the content, mobility and form of phosphorus compound in the chernozem of the Strelka steppe," Trudy Tsentr.-Chernozem. gos. zapovednika, Issue 2. 1948, p. 103-16. - Bibliog: 14 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

*BC**B-3 -/*

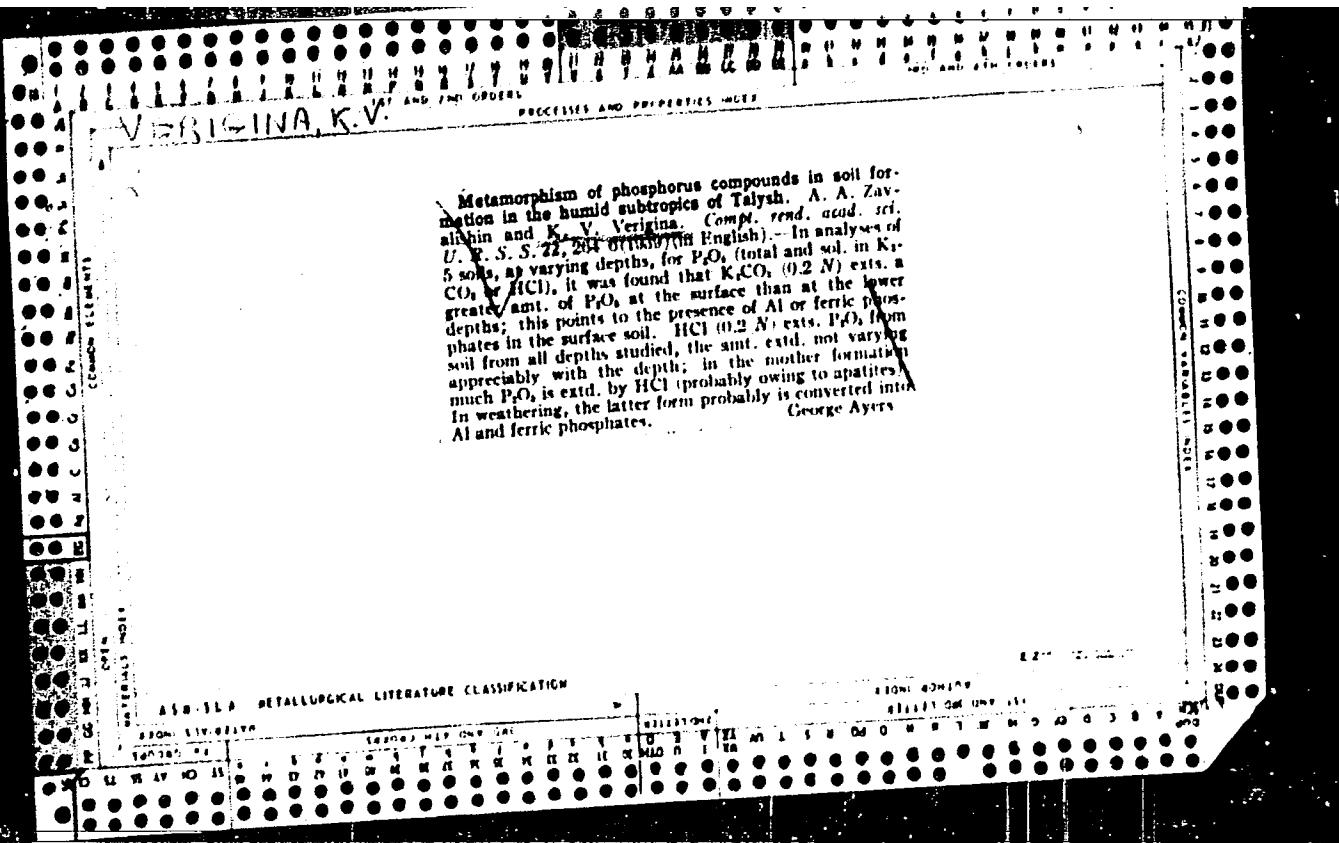
CHARACTERISTICS OF THE ORGANIC MATTER OF SOILS OF
THE U.S.S.R. III. PHASES OF THE ORGANIC NITROGEN
OF SOILS. N. P. Demesov and K. V. Verigina (Z. Pflanz.
Dung., 1934, 4, 36, 37-52; cf. A., 1933, 929).--The
H₂N-sol. fraction of the org. N. of soils increases with
the total org. N and with the proportion of univalent
ions in the total exchangeable cations present. It is the
more easily mineralized of the N fractions. Differentia-
tion between hydrolysable N and non-hydrolysable N (I)
is best made by autoclaving with 5% HCl at 200°.
Variations in mono- and diNH₂-acid N and amides are
characteristic of the nature of the soil. No relation-
ship exists between soil type and (I). The nature of the
protein matter of soil influences the exchangeable base
capacity.

A. G. P.

A.I.B.I.L.A. METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION LEVEL

SCIENTIFIC SUBJECT	GENERAL SUBJECT	QUALITY	SCIENTIFIC SUBJECT	GENERAL SUBJECT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



RAZUMOV, Gennadiy Aleksandrovich; VERIGINA, N.N., doktor tekhn. nauk,
prof., red.; BUTT, V.P., red. izd-va; KHENOKH, F.M., tekhn.
red.

[Radial intakes for urban and industrial water supply] Luche-
vye vodozabory dlia vodosnabzheniya gorodov i promyshlennosti.
Pod red. N.N.Verigina. Moskva, Izd-vo M-va kommun.khoz.
RSFSR, 1962. 58 p.

(MIRA 15:7)

(Intakes chydraulic engineering)
(Water-supply engineering)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5

ALFREDO PRISENTOV, N. P.; Verleina, V. V.; Maslov, S. P.

NO. 17072

~~the core when recording~~

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5"

181285
18820D

24274
S/148/61/000/001/013/015
A161/A133

AUTHORS: Verigina, Z. S., and Livshite, B. G.

TITLE: Determining the mechanical properties of the BT-3 (VT-3) and BT-3-1 (VT-3-1) alloys

PERIODICAL: Izvestiya vysokikh uchetnykh zavedeniy Chernaya metallurgiya, no. 1, 1961, 170 - 175

TEXT: Two industrial heats of BT-3 (VT-3) and BT-3-1 alloys have been investigated. Their chemical composition (in %) was:

	Ti	Al	Cr	Mo	O ₂	N ₂	Si	Fe	H ₂	C
VT-3 Base	4.87	2.86	1	0.20	0.165	0.04	0.27	0.005	0.03	
VT-3-1 Base	4.54	2.11	1.7	0.2	0.053	0.14	0.27	0.003	0.057	

The investigation purpose was: 1) To determine the mechanical properties (in tension and impact tests) after annealing to practically full equilibrium state; 2) To demonstrate that the mechanical properties are not changing during heating to the eutectic temperature if the specimens had been annealed to equilibrium state; 3) To show that the standard industrial heat

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24214
S/148/61/000/001/013/015
A:61/A133

Determining the mechanical properties of...

treatment rules result in a residual supercooled β -phase, and that the alloy containing residual high-temperature β becomes brittle in heating, i.e. that the impact resistance is lowered. The standard heat treatment specification requires heating at 870°C , cooling in the furnace down to 650° and soaking for 1 hour at this temperature, then cooling in open air. The article includes two tables giving the mechanical properties found in both alloys in the tests after the standard heat treatment, and after annealing to practically equilibrium state. Specimens that had been so annealed had the strength required by the standard specifications, and their impact resistance corresponded to the upper standard requirement limit. Thus, alloys annealed to practical equilibrium had good strength and high impact resistance despite the very slow cooling used in the experiments (40 and $15^{\circ}/\text{hr}$). This is supposed to be due to impurities (O_2 , N_2) dissolved in annealing at high temperature (in β -range) and then retained in α , despite very slow cooling. Specific electric resistance increased at higher hardening temperatures in the β -range, but hardness rose only slightly. At higher heating for hardening, the impurities (O_2 , N_2) dissolve in the β -phase, and they are alloying elements. Higher-alloyed β yields martensite with higher electric resist-

Card 2/4

24214
S/148/61/000/001/013/015
A161/A133

Determining the mechanical properties of...

ance and higher hardness, but the hardness is compensated by a higher quantity of residual soft β , and this accounts for only a slight increase in hardness comparing to the increase in electric resistance. A special investigation is necessary to study the kinetics of martensite decomposition and transformation of residual β during tempering, but it is apparent that alloying elements are better utilized at higher heating temperature for hardening and annealing. It is pointed out that tensile test specimens annealed as prescribed by standard heat treatment specification developed a clearly expressed neck, and they elongated mainly on account of the neck. Specimens annealed to practical equilibrium stretched over nearly their entire length, without any neck. It had been stated by the authors previously (Ref. 1: Livshits and Vertigina. Izv. vyssh. uch. zav. Chernaya metallurgiya, no. 5, 1960) that the studied alloys in the equilibrium state consist of an α -phase and $TiCr_2$, and after annealing as per standard specifications they contain a residual β -phase. As the quantity of slip planes in the hexagonal α -phase lattice is smaller than in the cubic body-centered β -phase, the deformation of tension test specimens is different. Specimens annealed to practical equilibrium do not become brittle when heated to temperatures below the eutectic. The lower boundary of the eutectic range for VT-3-1 alloy

Card 3/4

24214

S.48/63/000/001/03/015
A161/A133

Determining the mechanical properties of...

is at 500t¹0°C. In annealing as per standard specification the impact resistance of specimens drops after soaking in 400, 450, 500 and 550°. Conclusions: 1) Annealing to practical equilibrium state yields a strength within the standard requirements and a high impact resistance. 2) The mechanical properties of the alloys after annealing to equilibrium do not change after heating to eutectic temperature. Thus, the working temperature of the alloys can be raised by producing alloys with higher eutectic temperature. 3) Annealing as required in standard specifications raises strength to the upper limit (of standard requirement range) and yields high impact resistance; after heating to 400 ~ 550° the impact resistance drops. Embrittlement is apparently caused by the formation of the martensite phases during the decomposition of the residual β-phase. There are 3 figures, 2 tables, and 1 Soviet-block reference.

ASSOCIATION: Moskovskiy Institut stali (Moscow Steel Institute)

SUBMITTED: June 21, 1960

Card 4/4

187500

23998
S/148/617000/005/C12/015
E021/E135

AUTHORS: Varginov, Z.S., and Livshits, B.G.

TITLE: Study of the annealing of VT-3 and VT-3-1 alloys

PERIODICAL: Izvestiya vysokikh uchebnykh zavedeniy,
Chernaya metallurgiya, 1961, No.5, pp. 162-172

TEXT: The structure and properties of titanium alloys were studied, in connection with the decomposition of the martensitic structure (ϵ -phase) and the transformation of the residual ϵ -phase. The Ti-base alloys used were VT-3 (4.87% Al, 2.86% Cr, 0.2% O₂, 0.065% N₂, 0.04% Si, 0.27% Fe, 0.005% H₂, 0.03% C), and VT-3-1 (4.54% Al, 2.11% Cr, 1.7% Mo, 0.20% O₂, 0.053% N₂, 0.14% Si, 0.27% Fe, 0.003% H₂, 0.057% C). The VT-3 alloy was quenched from 1100 and 1200 °C in water, and annealed at 100-800 °C with water or air cooling. Electrical resistance and hardness measurements, and also microstructural, X-ray and dilatometry studies, were made. Fig. 1 shows the electrical resistance (ohm mm²/m) against tempering temperature °C (after hardening) for different times, for the VT-3 alloy. Fig. 1a after heat treatment at 1200 °C for two hours and quenching in water, with an air cool after tempering.

Card 1/7

23998

S/148/61/000/005/012/015

Study of the annealing of VT-3 and E021/E1-5

X

Fig.16 is the same with a water quench after tempering; Fig.14 is after heat treating at 1100 °C for 15 minutes and water quenching, with water cooling after tempering). Similar curves are plotted for hardness after the same heat treatments.

Fig.4 shows the change in hardness (Fig.4a) and electrical resistance (Fig.4b) of alloy VT-3-1 against annealing temperature after heat treatment at 1000 °C for 15 minutes and water-quenching, with water cooling after annealing. (Curve 1 is annealing for 2 hours, curve 2 for 12 hours, curve 3 for 24 hours). It can be seen from the curves that the relation between the properties of the alloys and tempering temperature is somewhat complicated and depends on the initial structure after quenching. Decomposition of the martensitic phase during ageing leads to a decrease in hardness and electrical resistance and transformation of the residual β -phase leads to an increase in properties. Cooling in water after tempering accelerates the transformation of the residual β -phase. The transformation of the residual β -phase probably takes place by a martensitic change, but the temperature of the end of the transformation is in the subzero temperature range, and it is therefore impossible to obtain a structure without metastable

Card 2/7

23998
Study of the annealing of VT-3 and ... E021/E135

S/148/61/000/005/012/015

phases by hardening and tempering.

There are 5 figures, 1 table and 4 references: 3 Soviet and
1 German.

ASSOCIATION: Moskovskiy institut stali
(Moscow Steel Institute)

SUBMITTED: October 29, 1960

Card 3/7

VERIGINA, Z.S.; LIVSHITS, B.G.

Investigating the tempering of BT-3 and BT-3-1 alloys. Izv.vys.ucheb.
zav.; chern.met. 4 no.5:162-172 '61. (MIRA 14:6)

1. Moskovskiy institut stali.
(Titanium-aluminum-chromium alloys--Heat treatment)

VERIGINA, Z.S.; LIVSHITS, B.G.

Determining critical points in VT-1 and VT-3-1 industrial
titanium alloys. Izv.vys.ucheb.zav.; chern.met. no.5;
163-171 '60. (MIRA 13:6)

1. Moskovskiy institut stali.
(Titanium alloys--Metallography) (Phase rule and equilibrium)

S/148/60/000/005/008/009

AUTHORS: Verigina, Z.S., Livshits, B.G.TITLE: Determination of Critical Points in Commercial Titanium Alloys
BT-3 (VT-3) ✓ and BT-3-1 (VT-3-1) ✓PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya,
1960, Nr 5, pp 163 - 171

TEXT: The commercial titanium alloys VT-3 and VT-3-1 (composition given in a table) become brittle after conventional thermal treatment. To explain the causes of such brittleness and to select the appropriate thermal treatment for eliminating same the authors undertook to determine the upper and lower critical points and the cooling rates ensuring the equilibrium state at low temperatures. To determine the upper critical points the specimens were water-cooled from various temperatures. Heating was performed in a vertical furnace in argon atmosphere. Additionally, X-ray analyses were carried out with the use of data submitted by Yu.A. Bagaryatskiy, T.V. Tagunova and G.I. Nosova [Ref 4]. To determine the lower critical points and cooling conditions entailing the equilibrium phase state, the specimens were cooled at

✓B

Card 1/2

S/148/60/000/005/008/009

Determination of Critical Points in Commercial Titanium Alloys BT-3 (VT-3)
and BT-3-1 (VT-3-1)

different rates from the β -zone (500, 200, 100, 80, 60 and 40 degrees per hour, and the VT-3 alloy at 15 degrees per hour). In alloys cooled down to the equilibrium state, electric resistances were measured during heating and cooling (Figure 5). It was established that the single-phase β -zone was obtained for VT-3 by heating up to 1,100°C and for VT-3-1 to 1,000°C. The lower critical point (probably the eutectoid one) was for VT-3 equal to 580°C \pm 10, and for VT-3-1 500°C \pm 10. The replacement of 0.75% chromium by 1.7% molybdenum reduced the upper and lower critical points approximately by 100°C. The annealing structure of the VT-3 alloy was obtained by a cooling rate of 15°/hour and of VT-3-1 by that of 40°/hour. There are: 1 table, 4 sets of microphotos, 2 sets of graphs and 4 references, 3 of which are English and 1 Soviet.

VB

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: November 17, 1959

Card 2/2

V E R I G O

OLEVSKIY, Viktor Aleksandrovich, kand.tekhn.nauk; VERIGO, retsenzent;
TROITSKIY, A.V., retsenzent; YEZDOKOVA, M.L., red.izd-va;
BERLOVA, A.P., tekhn.red.

[Construction, design and operation of crushing machinery]
Konstruktsii, raschety i ekspluatatsiya drobilok. Moskva. Gos.
nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
1958. 459 p. (MIRA 11:4)
(Crushing machinery)

MERZLOV, Ye.; ZAV'YALOV, A.; LEBEDEV, N.; LAKTIONOV, A., gruppovoy
inzh.-elektromekhanik; VERIGO, A., elektromekhanik

Automatic control on ships. Mor. flot 23 no. 12:45 D '63.
(MIRA 17:5)

1. Nachal'nik sluzhby sudovogo khozyaystva Dunayskogo parokhodstva
(for Merzlov).
2. Nachal'nik tekhnicheskogo otdela Dunayskogo
parokhodstva (for Zav'yaylov).
3. Starshiy inzh. NIO Odesskogo
vysshego inzhenernogo morskogo uchilishcha (for Lebedev).
4. Dunayskoye parokhodstvo (for Laktionov, Verigo).

VERICO, B. E.

(General course in the human and animal physiology) 2.izd.-vo, 1924. 511p.
(Norma] 'nye rukovodstva dlja vysshei shkoly)

1. Physiology - Text-books.

KURINNYY, T., inzhener; VERIGO, G.

Using electric power station slag in the building materials industry.
Strel.mat.izdel. i konstr. 1 no.12:19-20 D '55. (MLRA 9:?)
(Slag) (Building materials)

VERIGO, G.S., inshener.

Organization and mechanization of earthwork in construction of the
Moscow State University. Mekh.stroi. 11 no.6:6-8 Je '54. (MLRA 7:6)
(Earthwork) (Moscow University)

USSR/Miscellaneous--Woodworking Machine VERIGO, G. S.

Card 1/1

Author : Verigo, G. S., Engineer

Title : Mechanization of the manufacture of curved portions of stair railings

Periodical : Mekh. Stroi. 11/2, 31-32, February 1954

Abstract : Formerly the curved portions of hand rails were made by hand. A machine has been developed which makes these rails automatically. The author explains the working of the machine. Drawings; Illustrations.

Institution :

Submitted :

U. S. (Eng'neer)

AID - P-1

Subject : USSR/Engineering
Card : 1/1
Author : Verigo, G. S., Engineer
Title : The organization of horizontal and vertical transportation
(Experiences in building the Moscow State University)
Periodical : Sbor. mat. o nov. tekhn. v stroi. 2, 1-5, 1954
Abstract : Described are: the organization, machinery and equipment (sidings, cranes, trucks, winches, etc.) for transporting building materials to the place of construction and lifting them up to the construction platforms (for erection of the new Moscow State University buildings).
Photos; graphs.
Institutions: Not given.
Submitted : No date.

VERIGO, G. S.

USSR/Miscellaneous-Construction

Card 1/1

Authors : Verigo, G. S., Engineer

Title : Use of sectional ferroconcrete in the construction of the Moscow State University.

Periodical : Mekh. Trud. Rab., 2, 40 - 43, March 1954

Abstract : This report describes the experience of using large ready-made sectional ferroconcrete elements for the construction of the Moscow State University. During the four year period of its construction 470 thousand m³ of concrete and ferroconcrete were used. Out of this amount 250 thousand m³ alone were used for the massive ferroconcrete foundations under the buildings, roads etc., and 220 thousand m³ for above-ground constructions. Photos of the construction work are included.

Institute :

Submitted :

VERIGO Q.S., inzhener; SHPEYER, V.N., inzhener.

Preparation and assembly of large-block cornices in the construction at
Moscow State University. Mekh.stroi. 10 no.12:26-27 D '53. (MIRA 6:11)
(Cornice work)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5

VERIGO, G.S., inzhener.

Small cable cranes. Mekh.stroi. 10 no.10:20-22 0 '53. (MIRA 6:9)
(Cranes, derrickn, etc.)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510007-5"

VERIGO, G.S., inzhener.

Organization of horizontal and vertical conveyance; experience
building the Moscow State University. Sbor.mat.o nov.tekh.v stroi.
16 no.2:1-5 '54. (MLRA 7:5)
(Hoisting machinery)

VERIGO, G.S., inzhener.

Use of prefabricated reinforced concrete in building the Moscow
State University. Mekh.trud.rab. 8 no.2:40-43 Mr '54. (MLRA 7:3)
(Moscow--Precast concrete construction)

(Precast concrete construction--Moscow)

VERIGO, G.S., inzhener.

Mechanized production of stairway handrail wreaths. Mekh.stroi.ll
no.2:31-32 F '54.
(MLRA 7:1)
(Woodworking machinery)

KOMAROVSKIY, A.N., prof., doktor tekhn. nauk; VENIGO, G.S., inzh., nauchnyy
red.; YUDINA, L.A., red. izd-va; TOKER, A.M., tekhn. red.

[Organization of construction of Moscow University] Organizatsiya
rabot na stroitel'stve Moskovskogo gosudarstvennogo universiteta
imeni M.V. Lomonosova. Moskva, Gos. izd-vo lit-ry po stroit.,
arkhit. i stroit. materialam, 1958. 327 p. (MIRA 11:10)
(Moscow University) (Building)

BER, A.Ye., inzhener; VERIGO, G.S., inzhener.

~~SECRET~~

Cable hoists used in building Moscow University. Mekh. stroi. 11
no. 2:29-31 P '54. (MLRA 7:1)
(Hoisting machinery)

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1. VERICO, K. I.
2. USSR (600)

"Giproredmet". "New Equipment in Concentration Plants of the US" Tsvet. Met. 14, No. 12, December 1939.

9. [REDACTED] Report U-1506, 4 Oct 1951

POTEMKIN, K.V.; SPITSYN, A.; SHUGAYEV, I.A.; POL'KIN, S.I.;
SAKSAGANSKAYA, I.P.; ANDREYEV, F.I.; POLYAKOV, R.M.,
red.; VERIGO, K.H., red.

[Production of zirconium and hafnium in capitalist countries]
Proizvodstvo tsirkoniia i gafniia v kapitalisticheskikh stra-
nakh. Moskva, Pts.1-3. 1962. 157 p. (MIA 17:4)

l. Moscow. TSentral'nyy institut informatsii tsvetnoy metal-
lurgii.

BELASH, Foka Nikiforovich, prof., doktor tekhn. nauk; VERIGO, K.N.,
otv. red.; KACHALKINA, Z.I., red. izd-va; IL'INSKAYA, G.M.,
tekhn. red.

[Flotation of iron ores] Flotatsiya zheleznykh rud. Moskva,
Gosgortekhizdat, 1962. 210 p. (MIRA 15:11)
(Flotation) (Iron ores)

VERIGO, K.N., inzhener.

The Three Kicks manganese and lead flotation plant; (from "Engineering and Mining Journal" no. 11, 1955). Gor. zhur. no. 5:49-50
My '56. (MIRA 9:8)
(United States--Flotation) (Manganese ores)

SOV/137-58-7-14486

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 80 (USSR)

AUTHORS: Verigo, K.N., Kochergiha, D.G.

TITLE: Extraction of Rare and Nonferrous Metals From Ores and Middlings by Means of Selective Solvents (Primeneniye selektivnykh rastvoriteley dlya izvlecheniya iz rud i promezhutochnykh produktov tsvetnykh i redkikh metallov)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 24, pp 10-15

ABSTRACT: A description of the operational principle of extraction towers of various types is given, together with a flow sheet of a counter-current extraction process in open vats. The cost of extraction of various metals is quoted on the basis of data of foreign practice. The authors describe a number of systems for separation and extraction of metal by means of extraction processes performed with the aid of selective solvents.

L.P.

1. Ores--Processing 2. Metals--Solvent extraction 3. Solvent extraction--Equipment 4. Towers (Chemistry)--Performance

Card 1/1

VZ 73/6-C/77

AUTHOR: None given.

136-4-20/23

TITLE: New technical literature (Novaya tekhnicheskaya literatura).

PERIODICAL: "Tsvetnye Metally"(Non-ferrous Metals) 1957, No.4,
pp. 84 - 87 (U.S.S.R.)

ABSTRACT: This is an annotated list, compiled from material supplied by the Central Scientific-technical Library of the Ministry of Non-ferrous Metallurgy of the U.S.S.R. The following Russian articles and books are included:

Beneficiation:

K.N. Verigo, "Crushing and grinding equipment in capitalist countries" (Drobilno-razmolnoe oborudovanie v kapitalisticheskikh stranakh), Nauchno-tekhn. O-vo Tsvetnoy Metallurgii, Moscow, 1956, 159 pages. (Book)

N.N. Shumilovskiy and L.V. Mel'tser "Engineering methods for the calculation of consumption meters working on the "marked molecules" method", Priborostroenie, 1956, pp.4-8. №.11(Article)

Metallurgy:

A.F. Alabyshev and A.G. Morachevskiy "Thermo-dynamic properties of the system sodium-cadmium", Dokl.Ak.Nauk SSSR, 1956, pp. 369-71, Vol. 111, №.2. (Article)

Card 1/4

"Geology, mining, metallurgy, Collected Works, №.13" (Geologiya, gornoе delo, metallurgiya. Sbornik Nauchnykh Trudov №.13) Metallurgizdat, Moscow, 1956, 416 pages. (Book)

New technical literature (Cont.)

136-4-20/23

B.V. Deryagin and S.S. Dukhin "Settling of aerosol particles on a phase-change surface. Diffusional method of dust catching. Importance in medicine." Dokl. Ak. Nauk SSSR, 1956, pp.613-616.

Vol. III, No.3. (Article)

"Reports of the Academy of Sciences of the Kazakhstan SSSR, mining, metallurgy, building and building materials series." (Izvestiya Akademii Nauk Kazakhskoy SSR, seriya gornogo dela, metallurgii, stroitelstva i stroymaterialov (po razdelu metallurgii) No.9, Alma Ata, 1956, 111 pages. (Book) M.A. Iur'e "Refractories in non-ferrous metallurgy" (Ogneupory v tsvetnoy metallurgii), Metallurgizdat, Moscow, 1956, 151 pages. (Book)

A.F. Ogarkov, "Thermal conductivity of Ural refractory materials", V.Kh. Trudy Uralskogo Politekhn., Sverdlovsk, 1956, pp. 5 - 22. (Article)

N.F. Razina, M.T. Kozlovskiy and V.V. Stender, "Disruption of lead anodes during electrolysis of sulphuric acid solutions", Dokl. Ak. Nauk SSSR, 1956, pp. 404-406, Vol.III, No.2 (Article) I.G. Ryss, "Chemistry of fluorine and its inorganic compounds" (Khimiya fторa i ego neorganicheskikh soedineniy), Goskhimizdat, Moscow, 1956, 718 pages. (Book)

Card 2/4

New technical literature. (Cont.)

136-4-20/23

I.S. Stepanov, "Rare Metals" (Redkie Metally), MTsM SSSR TsIIN, Moscow, 1956, 58 pages. (Book)

Machining of Metals. Metallurgy:

M.E. Blanter, L.I. Kuznetsov, M.G. Lozinskiy and E.A. Sino-dova, "Influence of alloying elements on the hardness of nickel alloys at high temperatures", Izvestiya Akad. Nauk SSSR, Otd. Tekh. Nauk, 1956, pp. 88 - 95. No.12, (Article)

S.Ya. Veyler, V.I. Likhtman and P.A. Rebinder, "Mechanism of the action of lubricants in the working of metals by pressure", Dokl. Ak. Nauk SSSR, 1956, pp. 985 - 988. Vol.110 №.6 (Article)
R.B. Golubtsova and L.A. Mashkovich, "Investigation of metallic compounds in nickel alloys containing aluminium." Dokl. Ak.Nauk SSSR, 1956, pp. 824-826. Vol.111, №.4. (Article)

M.I. Kochnev, "Correspondence of the temperatures of anomalous change in the properties of copper, its compounds and alloys" Izvestiya AN SSSR, Otd. Tekh. Nauk, 1956, No.12, pp.96-105, No.12 (Article)

D.I. Layner and Potemkin, A.Ya. "Rational method for annealing aluminized nickel". TsIIN MTsM SSSR, 1956, pp. 19-21.(Article)

Card 3/4

Tarnovskiy, I.Ya., Pozdeev, A.A., and Iyashkov, V.B. "Deformation of metals during rolling" (Deformatsiya metalla pri prok- atke), Metallurgizdat, Sverdlovsk, 1956, 287 pages. (Book)

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136-4-20/23

Usach, M.Ya. "Hydraulic presses П 646, П 648 and П 664 for
pressing non-ferrous metal sections." Tekhniko-ekonomiceskoy
Informatsii, 1956, pp. 8 - 10. Vol.11, No.11. (Article)

Economics:
A.I. But, "Planning and economics of non-ferrous metallurgical
enterprises." (Planirovanie i ekonomika predpriyatiy tsvetnoy
metallurgii), Metallurgizdat, Moscow, 1956, 270 pages. (Book)

AVAILABLE:

Card 4/4