NIKITIN, A.V.

Electrotechnical practium in rural schools. Fiz. v shkole 16 no.4: 73-76 Jl-Ag '56. (MLRA 9:9)

1.Gorki Moskovskoy oblasti, srednyaya shkola pamyati V.I.Lenina.
(Electric engineering--Study and teaching)

NIKITIN,A.V.

Device for handling ethyl gasoline. Avt. i trakt. prom. no.8:30-31 Ag '55. (MLRA 8:11)

1. Gor'kovskiy avtozavod imeni Molotova
(Automobiles--Apparatus and supplies)

ACCESSION NR: AP5012330 UR/0286/64/000/022/0085/0085

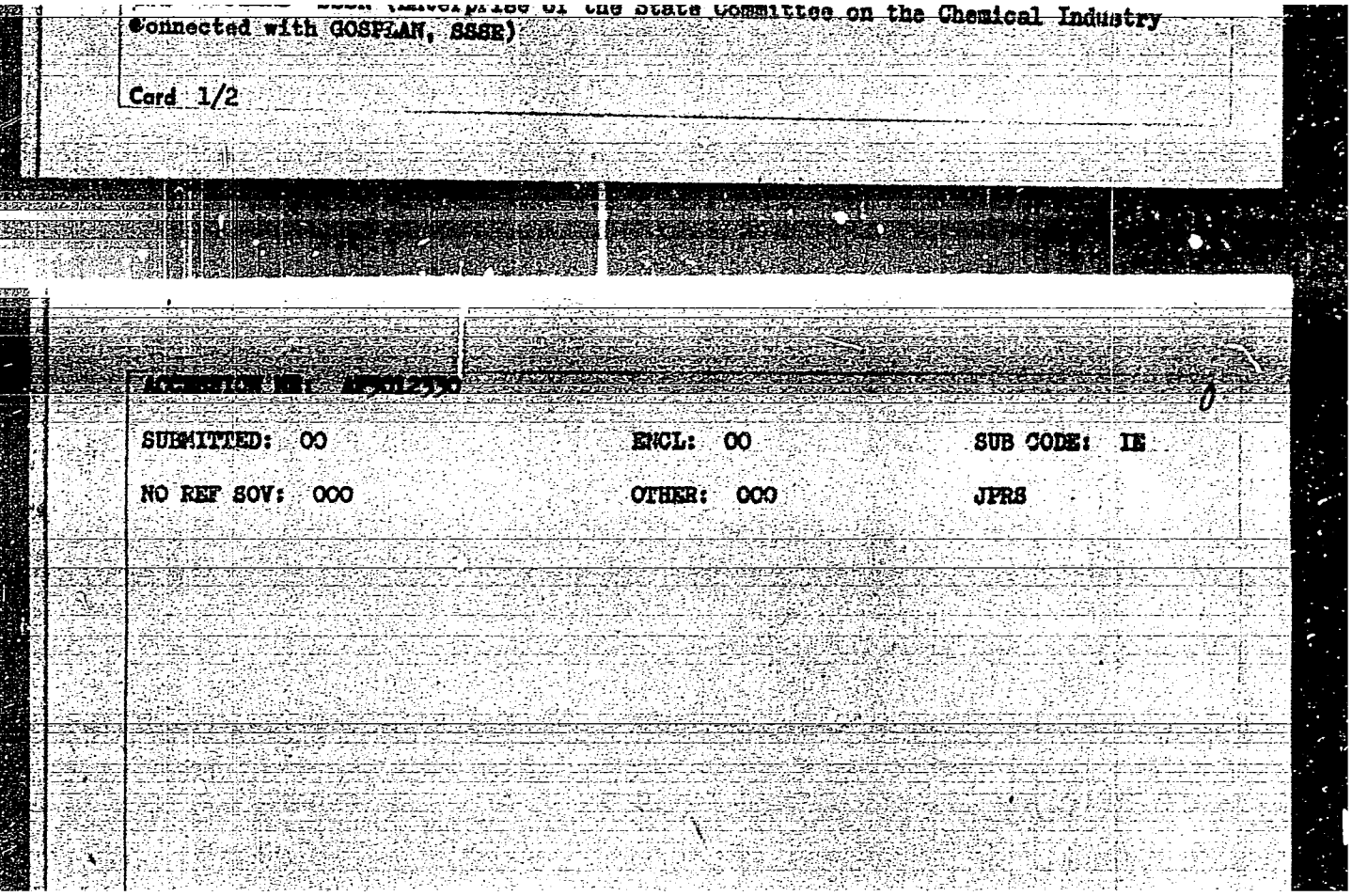
AUTHOR: Khrenova, M. B.; Mayorov, A. D.; Kononova, T. N.; Nikitin, A. Ya.

TITLE: Dust filter case. Class 61, No. 166577

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1964, 85

TOPIC TAGS: industrial filter

Translation: A patent for a filter case which contains a cover, housing, valve casing and rod. In order to simplify manufacture and facilitate replacement of the filtering elements, the housing is made as a single unit with a valve casing and guide rod for the breather valve. 2. A case of this description in which the diameters of the cover and housing are chosen in such a way that the edges of the filter are pressed between them so that the unit will be airtight. Orig. art. has: 1 figure.



*connected with GOSPLAN, SSSR)

Card 1/2

SUBMITTED: 00 ENCL: 00 SUB CODE: IE

NO REF SOV: 000 OTHER: 000 JPRS

NIKITIN, B.

Objective methods for evaluating the quality of poultry meat.
Miasn. ind. SSSR 34 no. 6:4-5 '63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepererabatyvayushchey promyshlennosti.

18.7300

AUTHORS: [illegible], P.P., Nikitin, M.A., [illegible]

TITLE: Electrolytic Pickling of [illegible]
Employing a.c. Current

PERIODICAL: Stal', 1960, Nr 1, pp [illegible] (USSR)

ABSTRACT: The authors propose a method of [illegible]
electrolytic pickling by means of [illegible]
with the help of a device [illegible]
Calculations made by one of the authors (P.P. [illegible],
Transactions of Vil'nyus [illegible] on Radio Electro-
chemistry, 1956, Publishing [illegible] Academy of
Sciences LSSR) show that [illegible]
Card 1/3 ible in low concentrations [illegible]
During experimental pickling [illegible]
by the Scientific Research [illegible] Chemical Machi-
nery (NIIKhIMMASh) the formation [illegible] of the
uble film was not observed [illegible] lower [illegible]

Electrolytic Pickling of Sheets With
Industrial Frequency a-c Current

concentration can be [illegible] 50% less than in [illegible] After successful laboratory [illegible] the method was verified under industrial [illegible] 512 × 712 mm sheets. [illegible] 0.1 11.5 m/min. Results [illegible] Table A.

Table A Results of [illegible] chemical and electrolytic pickling of sheets by [illegible] current.

PARAMETERS	Serial Number of Batches					
	1	2	3	4	5	6
Current, a.	240	240	360	360	360	—
Voltage on electrodes, V	2,8	2,8	5,5	5,5	5,5	—
Current density on electrodes, a/dm²	4	4	9	9	9	—
Pickling time, sec	9	9	6	3,2	6	6
Acid Concentration, g/l	23	20	17,2	17,2	17,0	17,0
Production of First-Grade tin Plated Sheets, %	69	73	70	74	71	48

Card 2/5

Electrolytic Pickling of Sheets With Industrial Frequency a-c Current

77-65
SOV/133-60-[illegible]/33

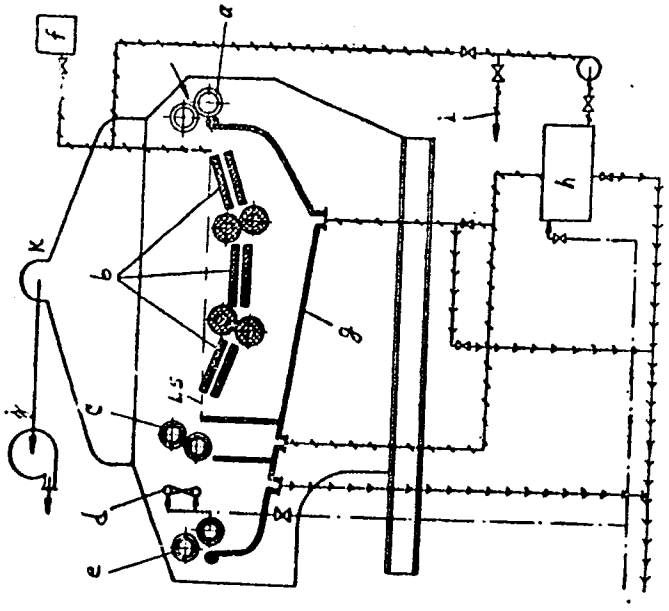
The sheets were free of imperfections, contrary to pickling without current when 38% had surface flaws. Tests with bright annealed hot and cold rolled sheets were successful. Hydrogen and oxygen liberation due to the electrolytic dissociation of water was not observed. Based on industrial tests, the authors recommend a pickling unit, as shown in Fig. 4, to be located between mechanized sheet feed and fluxing machine in the hot tin-plating installation. Sheets are fed to rollers (a) and pass two sections of electrolytic treatment between three sets of graphite electrodes (b). The distance between the sheets and graphite plates is 70mm and the total length of sheet travel under the current amounts to 840 mm. Time of treatment is calculated from t = l : v, where t = time (min); l = length of sheet travel (m); v = rate of sheet movement (m/min). With a rate of sheet movement of 15 m/min, the treatment lasts 3.5 sec. The clean sheet passes through extraction rollers (c), water jet (d), and water extraction rollers (e). The pickling solution circulates through pressure

Card 3/5

Electrolytic Pickling of Sheets With Industrial Frequency a-c Current

77465
SOV/133-60-1-26/30

Fig. 3. Diagram of bath for electrolytic pickling by a-c Current. LS is level of solution (other explanations in text).



Card 4/5

NIKITIN, B.A.

Performance calculations of repulsion motors. Energ. i elektrotekh. prom. no.3:38-43 Jl-S '62. (MIRA 18:11)

NIKITIN, B.A.

Principal types of axial asynchronous electric motors. Energ. i elektrotekh. prom. no.2:8-11 Ap-Je '63. (MIRA 16:7)

1. Institut elektrotekhniki AN UkrSSR.
(Electric motors, Induction)

NIKITIN, B.A., inzh.

Principles of the design of axial asynchronous motors with printed windings. Energ. i elektrotekh. prom. no.1:40-42 Ja-Mr '65.
(MIRA 18:5)

NIKITIN, B., inzh.

Improvement of operational indices of induction motors with printed stator windings. Energ. i elektrotekh. prom. no.3: 36-38 Jl-S '65. (MIRA 18:9)

ACC NR: AT6020931 (A, N) SOURCE CODE: UR/0000/65/000/000/0142/0154

AUTHOR: Nikitin, B. A.

ORG: Institute of Electrodynamics, AN UkrSSR (Institut elektrodinamiki AN UkrSSR)

TITLE: Loss in the solid rotor and torques in induction motors with printed-winding stator

SOURCE: AN UkrSSR. Issledovaniye elektromagnitnykh protsessov elektromekhanicheskikh sistem (Investigation of electromagnetic processes of electromechanical systems). Kiev, Naukova dumka, 1965, 142-154

TOPIC TAGS: induction motor, printed winding motor, disk motor, electric motor

ABSTRACT: The loss calculation requires determining the net induction in the rotor caused by the traveling wave of the ν-order magnetizing force in the stator. The amplitude of the magnetizing-force wave is equal to the integral of the linear loading at the pole-pitch midpoint. The rotating wave of the linear loading is expressed in terms of current of the corresponding harmonic. The resultant field of stator and rotor currents is determined by solving the Maxwell differential equations for the vectors

Card 1/2

ACC NR: AT6020931

of magnetic field strength, electric field strength, and current density. The solution yields a formula for induction at the rotor surface. The loss per unit rotor surface, for a ν-th harmonic, is determined, from the equations for E and H, as a real part of the Pointing vector. Finally, this total loss formula is obtained by integrating over the entire rotor surface:

$$P_{v_0} = \int_{\frac{D_1'}{2}}^{\frac{D_2'}{2}} \sum \omega_v 2\pi\rho d\rho = 4{,}44 \cdot 10^{-9} \left(\frac{f_1}{50}\right)^{1.6} \frac{F_{1m}^2 \tau_\varphi^2}{\nu k_{w_\nu}^2 \sqrt{\mu' \rho'}} [(D_2')^4 - (D_1')^4] \frac{1}{\varphi}.$$

A numerical example of a printed-stator solid-rotor disk-type motor illustrates the use of formulas. Orig. art. has: 2 figures, 77 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 04Dec65 / ORIG REF: 002

Card 2/2

BELYAYEV, P.P., kand.khimicheskikh nauk; NIKITIN, B.A., mladshiy nauchnyy sotrudnik

Acceleration of the solving of metallic tin in alkaline water solutions. Trudy NIIKHIMMASH nl.28:3-11 '59. (MIRA 15:6)

(Tin) (Solution (Chemistry))

NIKITIN, B.D.

LEDNEV, N.A., professor; GROSHEV, A.V.; YELISTRATOVA, T.A., NIKITIN, B.D.; PENTKOVSKIY, M.V.; PREOBRAZHENSKIY, M.A.; RUMSHISKIY, L.Z.

[Practical mathematical work on calculating machines and instruments] Matematicheskii praktikum na schetnovychislitel'nykh priborakh i instrumentakh. Moskva, Gos. izd-vo "Sovetskaia nauka," 1954. 365 p.
(Calculating machines) (Approximate computation) (MLRA 7:7)

121-7-5/26

AUTHOR: NIKITIN,B.D.

TITLE: Hydrostatic Measuring Methods of Rectilinearity and Planeness. (Gidrostaticheskiye metody izmereniya pryamolineynosti i ploskostnosti, Russian)

PERIODICAL: Stanki i Instrument, 1957, Vol 28, Nr 7, pp 17-19 (U.S.S.R.)

ABSTRACT: This method is based upon the fact that a liquid surface which is in equilibrium represents a horizontal surface and that the surfaces of a liquid in connected containers lie in one and the same plane.

Open hydrostatic systems are characterized by the following sources of errors: The action of atmospheric pressure and milieu temperature. In illustration 1 this action is graphically represented. In the case of open systems, evaporation of liquid on the surface as well as dirtying by dust takes place, which exercises a negative influence on the accurate measuring of the height of the liquid level. Furthermore, it requires some time before the oscillations of the liquid in such a system die down. The above described phenomena stand in the way of carrying out exact measurements. Therefore closed hydrostatic systems have been adopted, which are described and explained by the author (illustrations 3 and 4). The most accurate measurements (up to 1% of

Card 1/2

Hydrostatic Measuring Methods of Rectilinearity and Planeness.

the measuring value) can, however, be carried out by means of a hydrostatic system with a constant liquid level in that the latter is connected with a water container, the surface of which is a multiple of that in the measuring heads. The accuracy of this system can be further increased by connecting a number of containers. Control of the height of the level of the system can be carried out by means of a measuring head arranged (immobile) beside the container. These systems are universal and can be composed from any number of measuring heads, which makes simultaneous and independent measuring at several points possible.

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

NIKITIN, B.D.

Existence of solutions for an infinite system of nonlinear integral equations. Uch. zap. MOPI 57 no.4:81-98 '57. (MIRA 11:6)
(Integral equations) (Topology)

AVDULOV, A.N.; NIKITIN, B.D.

Support for a precise rotation. Stan. i instr. 36 no.2:12-14 F '65. (MIRA 18:3)

VISHNYAKOV, V.F., POPOV, S.I.; NIKOLAYEV, P.P.; NIKITIN, B.G., veter, vrach.; GRUZDEVA, Ye.K., veter. vrach; SMIRNOV, A.M., prof.

Preparation and application of the gastric juice of horses. Veterinariia 40 no.5:44-47 My '63. (MIRA 17:1)

1. Direktor Gosudarstvennogo plemennogo zavoda "Lesnoye", Leningradskoy oblasti (for Vishnyakov). 2. Glavnyy veterinarnyy vrach Gosudarstvennogo plemennogo zavoda "Lesnoye" Leningradskoy oblasti (for Popov). 3. Nachal'nik tsekha po proizvodstvu natural'nogo zheludochnogo soka loshadey Gosudarstvennogo plemennogo zavoda "Lesnoye" Leningradskoy oblasti (for Nikolayev). 4. Gosudarstvennyy plemennoy zavod "Lesnoye" Leningradskoy oblasti (for Nikitin, Gruzdeva). 4. Leningradskiy veterinarnyy institut (for Smirnov).

NIKITIN, B. I.

DECEASED 1964

Hydroelectric power

C. '63

TINYAKOV, G.G.; NIKITIN, B.I.

Special characteristics of the histological structure of skin and feather follicles of water birds. Izv.vys.ucheb. zav.; pishch.tekh. no.6:32-40 '58. (MIRA 12:5)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, Kafedra anatomii i gistologii.
(Water birds) (Histology)

PELEYEV, A., kand. tekhn. nauk; NIKITIN, B., inzh.

Effect of the speed of the removal of feathers on their resistance to removal. Mias. ind. SSSR 29 no.3:51-52 '58. (MIRA 11:6)
(Feathers)

NIKITIN, ,B. I., Cand of Tech Sci — (diss) "Study of the Retentive Properties of the Feathering and Structure of Skin of Water Fowl and its Changes in the Process of Technological Processing," Moscow, 1959, 17 pp (Moscow Technological Institute of the Meat and Dairy Industry) (KL, 5-60, 127)

NIKITIN, B.I.; TINYAKOV, G.G.

Feather retention in the skin of water birds and changes during processing. Izv.vys.ucheb.zav.; pishch.tekh. no.2: 40-44 '59. (MIRA 12:8)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

(Water birds)

VEL'T, I.D., inzh.; LAMOCHKINA, T.I., inzh.; NIKITIN, B.I., inzh.; PETRUSHAYTIS, V.I., inzh.; SERGEYEV, V.V., inzh.

Induction fluid-flow pickups with a unified output signal.
Priborostroenie no. 10:20-22 O '65 (MIRA 19:1)

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29873

Author : Nikitin, B.L., Lutkova, I.N.
Inst :
Title : The Effect of Soil Electrification on the Development of Cotton.

Orig Pub : Byul. nauchn.-tekhn. inform. Tsentr. genet. lavor. im. I.V. Michurina, 1956, vyp. 2, 46-50

Abstract : Study was made of the effect of a low current (1.2 v. at 10 ma.) gotten from a conductor, connecting electrodes of zinc and carbon plates which were placed in the soil with 10 and 5 m. spaces between them. The cotton plant on the beds which were subjected to electrification, increased its speed of growth somewhat and temporarily its cold resistance. The first generation of seeds raised under electrofication were quicker in ripening and yielded bolls nearly twice as large as the control plants.

Card 1/1

NIKITIN, B.L.

USSR

Cultivated Plants. Commercial. Oleiferous. Sugar-Bearing.

JRS. JOUR. : [illegible]

AUTHOR : Gorshkov, T.S.; Nikitin, B.L.
INST. : Central Genetics Laboratory im. I.V. Michurin
TITLE : The Effect of Soil Electrification on the Harvest and Change in Sugar Content in the Sugar Beet and Starch Content in the Potato *
SRIG. PUB.: Byul. nauchno-tekhn. inform. Tsentr. Genet. labor. im. I.V. Michurina, 1957, vyp. 3, 7-14

ABST. ART : The results are given of studies on tiny plots conducted in 1954-1956 on the sugar beet and potato. The plants were grown in soil into which zinc and carbon electrodes were sunk, at distances of 5 and 10 meters. The current running between them was kept at a 6-10 ma level. In the experiment with beets, soil electrification increased seed germination from 11 to 19-20%, as well as the leaf surface area. The yield of roots was boosted

*(Preliminary Report).

CARD: 1/3

KRAVTSOV, P.V.; NIKITIN, B.L.; KRAVTSOVA, L.V.

Effect of electricity on the biological activity of soil. Trudy TSGL 7:239-243 '61. (MIRA 15:10)
(Soil biology) (Electricity—Physiological effect)

NIKITIN, B. M.

USSR/Medicine - Diphtheria May/Jun 1948
Medicine - Stomach, Examination

"Histomorphological Disease of the Mucous Membrane of the Stomach in Various Forms of Diphtheria," B. M. Nikitin, Honor. Lab of Path Ant of Infectious Diseases, Inst of Normal and Path Morph, Acad Med Sci and Path Ant Dept Klyushinsk Hospital, 8 pp

"Arkhiv Patologii" Vol X, No 3

Reports stomach examinations of 30 diphtheria cases, 3-4 hours after death. In nearly every case degeneration or inflammation of mucous membrane of stomach was observed, and in 11 cases, acute gastritis. Min

72T3

USSR/Medicine - Diphtheria (Cont'd) May/Jun 1948

pathological processes in mucous membrane occur in first 2 weeks of diphtheria and then gradually disappear.

72T3

NIKITIN, Boris Mitrofanovich

Academic degree of Doctor of Medical Sciences, based on his defense, 12 October 1954, in the Council of the Medico-Biological Section of the Acad Medical Sci USSR,,of his dissertation entitled: "Intercellular Matter in the Stroma of Neoplasms and its Role in the Growth of Tumors (morphological and hystochemical Study).

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, list no. 26, 17 Dec 55, Byulleten' MVO SSSR, Uncl. JPRS/NY 548

Excerpta Medica 3/4 sec 16 Apr 55 Cancer

1220. NIKITIN B. M. Dept. of Path. Blagušin Hospital, Moscow *The chromotropic substance in tumours (Russian text)* Arkh. Patol. (Moscow) 1954, 2 (39—45)

The stroma of tumours has as yet been insufficiently examined. The investigations were carried out in 652 biopsy specimens. Method: fixation in 10% neutral formalin, frozen or paraffin sections, staining with 1 to 2% toluidine blue (0.5 to 1 hr.), washing in water, alcohol, Canada balsam. The chromotropic substance (high-molecular sulphuric ether) is found in the stroma of malignant tumours and in loose granulation tissue. In the tumours rapid staining is evidence of rapid growth. The most chromotropic substance is found in scirrhus, less in adenocarcinoma and in solid cancer. Necrotic areas do not contain chromotropic substance. The more marked the keratinization, the less chromotropic substance is present. Sarcomas are very rich in chromotropic substance. In repeated recurrences the chromotropic substance content decreases.

Brandt — Berlin

NIKITIN, B.M., doktor med.nauk

Untrained heart. Zdorov'e 5 no.5:18-19 My '59. (MIRA 12:11)
(HEART) (EXERCISE)

NIKITIN, B.M., doktor med.nauk

Here work will be found for everyone. Zdorov'e 5 no.7:18-19 Jl '59. (MIRA 12:11)

(GARDENING--HYGIENIC ASPECTS)

NIKITIN, B.M.

Morphogenesis of bone tumors developing under the influence of ionizing radiation. Med.rad. 5 no.3:13-18 '60.
(MIRA 13:12)

(BONES—TUMORS) (STRONTIUM—ISOTOPES)

NIKITIN, B.M.

Pathogenesis of bone sarcomas in rats following the administration of strontium 89 and the effect of strontium 89 on the progeny of these animals. Biul. eksp. biol. i med. 49 no. 4:93-95 Sp '60. (MIRA 13:10)

1. Iz laboratorii patomorfologii (zav. - dotsent I.A. Avdeyeva) Instituta eksperimental'noy patologii i terapii raka (dir. - chlen-korrespondent AMN SSSR prof. N.N. Blokhin) AMN SSSR, Moskva.
(STRONTIUM--ISOTOPES) (BONES--TUMORS)

NIKITIN, B.M., doktor med.nauk

Morphology of cancer and precancer of the bladder. Urologiia no.6:34-36'62. (MIRA 16:7)

1. Iz laboratorii tsitologii (zav. - doktor med. nauk B.M. Nikitin) Instituta eksperimental'noy i klinicheskoy onkologii (direktor - deystvitel'nyy chlen AMN SSSR prof. N.N. Blokhin) AMN SSSR.
(BLADDER—CANCER)

NIKITIN, B.M.

Role of the electric conductivity of slag in steel smelting arc furnaces. Nauch. trucy DMI no.51:41-53 '63. (MIRA 17:10)

NIKITIN, B.M.; LAGUNOV, Yu.V.

Methods of measuring the electric conductivity of molten slags. Nauch. trudy DMI no.51:54-63 '63. (MIRA 17:10)

NIKITIN, B.M.; CHUYKO, N.M.

Role of the electric resistance of slag in electric arc, steel-smelting furnaces. Izv. vys. ucheb. zav.; chern. met. 6 no.8:60-67 '63. (MIRA 16:11)

1. Dnepropetrovskiy metallurgicheskiy institut.

NIKITIN, B.M.; CHUYKO, N.M.

Effect of slag composition on the pattern of a phase current oscillogram and the voltage of a steel smelting arc furnace. Izv. vys. ucheb. zav.; chern. met. 6 no.10:52-57 '63. (MIRA 16:12)

1. Dnepropetrovskiy metallurgicheskiy institut.

L 41556-65 EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pt-7/Pu-4 JD/WW/JG
ACCESSION NR: AP5002268 S/0148/64/000/012/0048/0051 30 28 B

AUTHOR: Nikitin, B. M.; Chuyko, N. M.

TITLE: Electrical characteristics of a steel melting arc furnace allowing for resistance in liquid slags

SOURCE: IVUZ. Chernaya metallurgiya, no. 12, 1964, 48-51

TOPIC TAGS: steel melting, arc furnace, liquid slag, electrical characteristic, electric resistivity

ABSTRACT: This is a continuation of the authors' works (Izvestiya vy*sshikh uchebny*kh zavedeniy, Chernaya metallurgia, 1963, no. 6; no. 10) showing the effect of the electrical resistivity of various slags on the electrical characteristics of an electric arc steel melting furnace. In this work the electrical charact-

Analysis of the electrical characteristics thus obtained showed that the

Card 1/2

L 41556-65
ACCESSION NR: AP5002268

2

resistivity of the slag, the lower the value of the maximum arc power and of the current strength corresponding to this maximum. In lime slags and in fused spars the resistivity of the liquid slag was insignificant: the values of the maximum arc power and the effective power were close. But the resistivity of the acid slags had the controlling effect on the energy in the process. However, arc furnaces can be operated efficiently with slags of high resistivity. The tempera-

strength when using a given slag. Orig. art. has: 6 equations, 5 figures and 1 table.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute)

SUBMITTED: 06Jan64 ENCL: 00 SUB CODE: MM

NR REF SOV: 012 OTHER: 000

Card 3/3

L 6516-66 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) IJP(c)

ACC NR: AP5024893 MJW/JD SOURCE CODE: UR/0130/65/000/010/0016/0017

AUTHOR: Nikitin, B. M.; Yershov, G. S.; Malinovskiy, Ye. I.

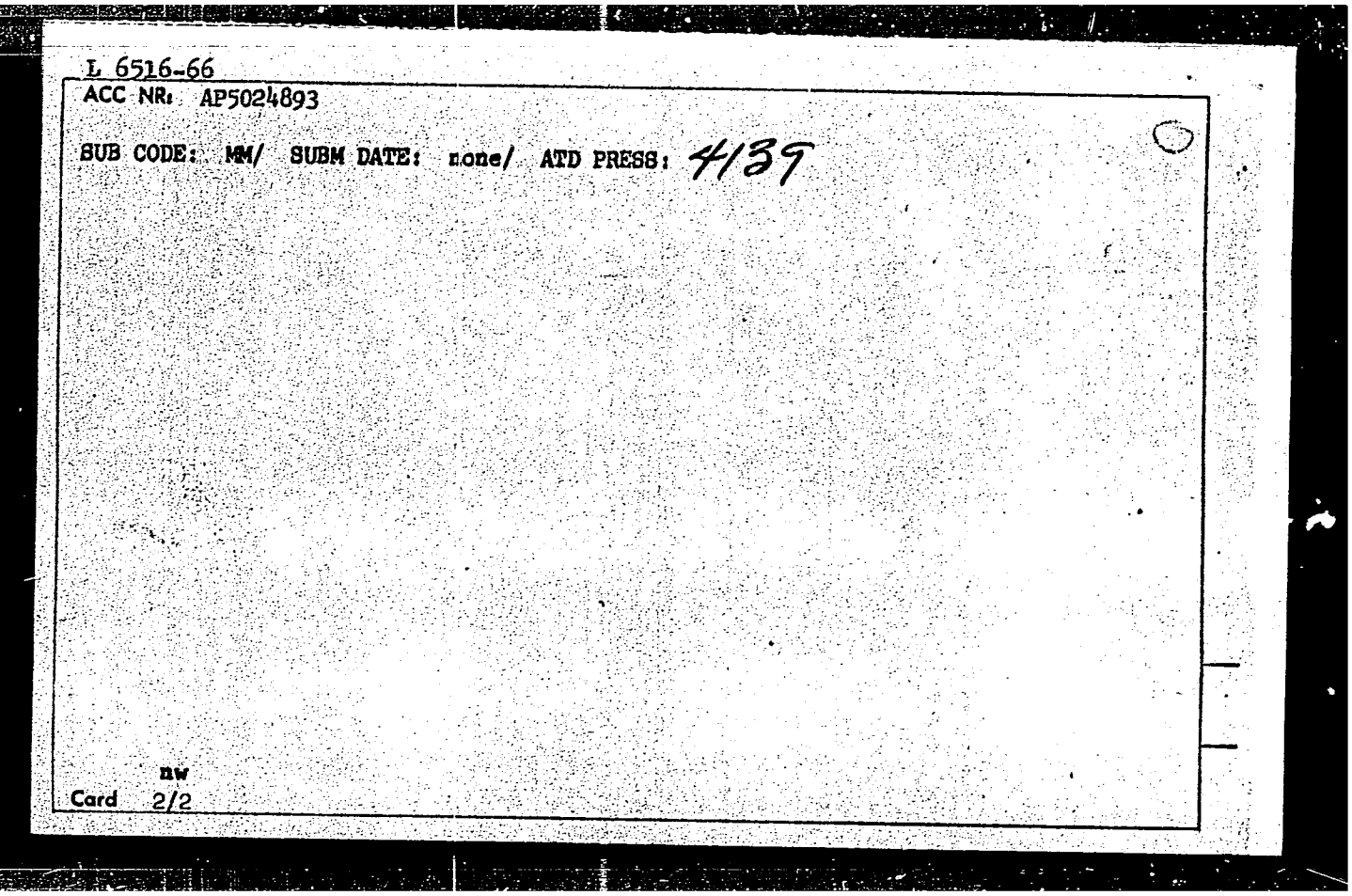
ORG: none

TITLE: Effect of sodium oxide on the refining capacity of fluxes used in electroslag melting

SOURCE: Metallurg, no. 10, 1965, 16-17

TOPIC TAGS: steel melting, electroslag melting

ABSTRACT: The effect of sodium oxide on the refining capacity of the slags of the CaF_2-Al_2O_3-Na_2O system used in electroslag melting has been investigated. It was found that increasing the sodium-oxide content



L 6516-66
ACC NR: AP5024893

SUB CODE: MM/ SUBM DATE: none/ ATD PRESS: 4139

nw
Card 2/2

NIKITIN, B.M., inzh.; SELEZNEV, A.S., inzh.

Organize the control over air gassiness in industrial enterprises. Bezop. truda v prom. 9 no.4:28-29 Ap '65. (MIRA 18:5)

1. Lisichanskiy khimicheskiy kombinat.

NIKITIN, B.M.; SMOLYAKOV, V.F.; MALINOVSKIY, Ye.I.; AKULOV, V.P.

Improving the quality of stainless steel ingot surfaces made by electric slag remelting. Met. i gornorud. prom. no.3:31-32 My-Je '65. (MIRA 18:11)

NIKITIN, B.M.; YERSHOV, G.S.; MALINOVSKIY, Yu.I.

Effect of sodium oxide on the refining capacity of fluxes in electric slag remelting. Metallurg 10 no.10:16-17 O '65.

(MIRA 18:10)

L 40903-66 EWP(k)/EWT(m)/T/EWP(w)/EWP(t)/ETI IJP(c) JH/JD
ACC NR: AP6018223 (N) SOURCE CODE: UR/0383/66/000/001/0025/0027

AUTHOR: Zabaluyev, Yu. I.; Nikitin, B. M.; Yakovlev, N. F.; Kaganovskiy, G. P.; Akulov, V. P.; Zabaluyev, I. P. 43 B

ORG: none

TITLE: Improving the quality of 30KhGSNASh electroslag remelted steel

SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost', no. 1, 1966, 25-27

TOPIC TAGS: chromium steel, solid mechanical property, steel microstructure

ABSTRACT: The authors investigate electroslag remelting to eliminate hairline cracks and structural discontinuities occuring in 30KhGSNASh steel after standard smelting produced lengthwise cracks and low values for area cross section reduction in ingots (using slag ANF-6) and in rolled billets (using slag AN-291). Experiments to determine the effects of heat treatment, cooling technology, and final deoxidant admixture indicate that the killing technique is primarily responsible for the occurrence of structural defects. Elimination of the latter and improved mechanical properties were attained by limiting the amount of Al added to the basic metal as final deoxidant. Orig. art. has: 2 tables and 1 figure.

SUB CODE: 11,13/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000
Card 1/1 UDC: 669.141.247.004.12

ACC NR: AP7032554 SOURCE CODE: UR/0125/66/000/009/0032/0034

AUTHOR: Nikitin, B. M.; Koval', A. Ye., Zabaluyev, Yu. I.; Kaganovskiy, G. P.; Moshkevich, Ye. I.; Medovar, B. I.; Latash, Yu. V.

ORG: [Nikitin, Koval'] UKRNIISPETsSTAL'; [Zabaluyev, Kaganovskiy, Moshkevich] Dneprospetsstal' Plant (Zavod "Dneprospetsstal'"); [Medovar, Latash] Electric Welding Institute im. Ye. O. Paton AN USSR (Institut elektrosvarki AN USSR)

TITLE: The behavior of aluminum during electroslag melting of silicon steel

SOURCE: Avtomaticheskaya svarka, no. 9, 1966, 32-34

TOPIC TAGS: aluminum, electroslag melting, silicon steel, mechanical property

ABSTRACT: The authors study the behavior of aluminum during electroslag melting of silicon steel. E3, 30KhGSNA and 25Kh2GNTA steel were melted using AN-291 slag for studying the effect of chemical composition of steel on the recovery of aluminum from slag. The test specimens were cut into oblong templates for studying the chemical heterogeneity of the metal. Variation of average aluminum concentration with respect to ingot height in given. Industrial data shows that the quantity of aluminum recovered from slag increases by 0.01-0.06% as silicon content in the metal is increased from 1.16 to 3.22%. Data on silicon and aluminum content in 30KhGSNASh steel, processed by correlation analysis, show that silicon is responsible for aluminum recovery

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from slag. It should be pointed out that the recovery of aluminum during melting is not steady. Aluminum content in the metal increases during the first part of silicon steel melting and decreases subsequently. The decrease in aluminum recovery is explained by the accumulation of silica and a decreasing alumina content in the slag. This brings about a higher silicon concentration and thus decreases aluminum concentration. The use of slag materials which ensure stable aluminum concentration with respect to ingot height make it possible to obtain metal with uniform mechanical and other properties. Orig. art. has: 3 figures, 1 table, 1 formula.

SUB CODE: 11/ SUBM DATE: 19Aug65/ ORIG REF: 002

Card 2/2

ALAKIN, A.I.; NIKITIN, B.N.; TSAREVSKAYA, N.P.

Using rare earths for tinting glass. Stek. i ker. 18 no. 3:33-34 Mr '61. (MIRA 14:5)

(Rare earths) (Glass,Colored)

NIKITIN, B.N., inzhener (Biga).

Increased economy of operation on the railroads. Zhel.dor.transp. 39 no.8:71-72 Ag '57. (MLRA 10:9)
(Railroads--Management)

NIKITIN, B.N.

Interrelation of the biochemical processes of the rumen and butterfat production in cows during pasturage. Trudy Inst. fiziol. AN Kazakh.SSR 2:106-109 '59. (MIRA 13:7)
(RUMEN)
(COWS--PHYSIOLOGY)
(DAIRY CATTLE--FEEDING AND FEEDING STUFFS) (BUTTERFAT)

NIKITIN, B.N.

Influence of some biochemical processes in the rumen on the quality of butterfat of cows. Trudy Inst.fiziol. AN Kazakh. SSR 2:110-116 '59. (MIRA 13:7)

(RUMEN) (COWS--PHYSIOLOGY)
(DAIRY CATTLE--FEEDING AND FEEDING STUFFS) (BUTTERFAT)

NIKITIN, B.N.

Some hematological indexes in sheep of the Aral fine-fleeced group. Trudy Inst.fiziol. AN Kazakh.SSR 2:131-136 '59.
(MIRA 13:7)

(SHEEP--PHYSIOLOGY) (BLOOD)

NIKITIN, B. A. Cand Biol Sci -- "Formation of volatile aliphatic acids in a scar and their effect upon the lactic fat in cows." Alma-Ata, 1960 (Min of Higher and Secondary Specialized Education Kaz SSR. Alma-Ata Zoovet Inst). (KL, 1-61,193)

BAZANOVA, N.U.; NIKITIN, B.N.

Physiological evaluation of new silage types. Trudy Inst.mikrobiol. i virus.AN Kazkah.SSR 6:125-127 '62. (MIRA 15:8)
(ENSILAGE)

BAZANOVA, N.U.; NIKITIN, B.N.

Physiological evaluation of corn silage. Report No.2.
Trudy Inst. mikrobiol. i virus. AM Kazakh. SSR 7:10-15 '63.
(MIRA 16:12)

BAZANOVA, N.V., M.I.N. ...

Effect of ... Trudy Inst. Fiziol. AN Kazakh. SSR 5:74-86 '63.

[redacted], T. I.

Technology

Our experience in the mechanization of machine-tool works. Moskva, Znanie, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

ZHIDELEV, Mikhail Aleksandrovich; NIKITIN, B.P.

[Mechanical engineering manual; a textbook for grade '] Rukovodstvo po mashinovedeniiu; posobie dlia uchashchikhsia VIII klassa. Izd.3. Moskva, Gos.uchebno-pedagog.izdvo, 1959- . (MIRA 15:10)

(Mechanical engineering)

KUDINOV, V.A.; NIKITIN, B.V.

Calculating the frequency characteristics of an elastic mechanical system. Inz.-fiz. zhur. 4 no.12:83-89 D '61. (MIRA 14:11)

1. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov, Moskva.

(Mechanics)
(Frequencies of oscillating systems)

NIKITIN, B. P.

Siberian fish products. Novosibirsk, Glavsibrybprom, 1950. 411 p.

Nikitin, B.P.

DRAGUNOV, A.M., kandidat tekhnicheskikh nauk; MINDER, L.P., kandidat tekhnicheskikh nauk; NIKITIN, B.P.

Salt content standards for fish and fishery products. Standartizatsiia no.6:76-78 N-D '54. (MLRA 8:10)

1. Dono-Kubanskaya nauchnaya rybokhozyaystvennaya stantsiya Azcherniro (for Dragunov and Minder). 2. Moskovskoye upravleniye Gosprodinspektsii po kachestvu
(Fishery products--Standards)

NIKITIN, B.P.

New developments in the standardization of fishery products.
Standartizatsiia no.2:79-82 Mr-Ap '56. (MLRA 9:5)

1. Moskovskoye upravleniye Gosudarstvennoy inspektsii po kachestvu prodovol'stvennykh tovarov.
(Fishery products--Standards)

NIKITIN, Boris Pavlovich; MUKHINA, Ye.M., red.; FORMALINA, Ye.A., tekhn. red.

[Organoleptic method for determining the quality of fish and fishery products]Organolepticheskii metod v otsenke kachestva ryby i ryboproduktov. Moskva, Rybnoe khoziaistvo, 1962. 89 p. (MIRA 16:3)

(Fishery products inspection)

NIKITIN, P. ., inzh.

New system of marking and sorting linen in laundries. Kov. terr.zhil.-kom.khoz.; Blagoustr.gor.no. 2:77-84. '62.
(MIRA 17:6)

NIKITIN, B.V., inzhener.

Automatic reserving of low frequency channels by radio transmitters.
Vest.sviazi 17 no.10:57-58 O '57. (MIRA 10:11)
(Radio--Transmitters and transmission)

NIKITIN, B.V., inzhener.

Operating the measuring apparatus KIS-2. Vest.sviazi 15 no.10: 16-17 O '55. (MLRA 9:2)

1.Nachal'nik L'vovskogo oblastnogo upravleniya svyazi.
(Telecommunication) (Radio)

NIKITIN, B.V

PHASE I BOOK EXPLOITATION SOV/4472

Kuznetsov, Vasiliy Ivanovich, Professor, Doctor of Technical Sciences, and Boris Vladimirovich Nikitin, Mechanical Engineer

Plasticheskiye massy i ikh osnovnyye fiziko-mekhanicheskiye svoystva (Plastics and Their Basic Physical and Mechanical Properties) Moscow, Izd-vo VPSh i AON pri TsK KPSS, 1959. 91 p. 8,300 copies printed.

Sponsoring Agency: Kommunisticheskaya partiya Sovetskogo Soyuza. Tsentral'nyy komitet. Vysshaya partiynaya shkola. Kafedra promyshlennogo proizvodstva i stroitel'stva.

Ed. (Title page): G. I. Pogodin-Alekseyev, Professor, Doctor of Technical Sciences; Ed.: A. G. Kokoshko.

PURPOSE: This book is intended for persons working in the field of plastics.

COVERAGE: The authors discuss in popular language the various types of plastics, their properties and industrial applications, and the design of parts and

Card 1/5

NIKITIN, B.V., aspirant

Calculating dynamic characteristics of the elastic system of a transverse planing machine. Izv.vys.ucheb.zav.; mashinostr. no.2:29-37 '62. (MIRA 15:5)

1. Moskovskiy vecherniy mashinostroitel'nyy institut.
(Planing machines)

NIKITIN, Boris Vladimirovich; PUSH, V.E., kand. tekhn. nauk, dots., retsenzent; LESNICHENKO, I.I., red. izd-va; GORDEYEVA, L.P., tekhn. red.

[Calculating the dynamic characteristics of machine tools]Raschet dinamicheskikh kharakteristik metallorezhushchikh stankov. Moskva, Mashgiz, 1962. 110 p. (MIRA 15:8)
(Machine tools—Vibration)

NIKITIN, B. ?.; RUDENKO, N.D.

Industrial practive of oil production from the Korobkovskaya petroleum. Nefteper. i neftekhim. no.1:5-9 '63.
(MIRA 16:10)

1. Volgogradskiy neftepererabatyvayushchiy zavod i Volgogradskiy nauchno-issledovatel'skiy institut nefti i gaza.

85-8-7/18

AUTHOR: Nikitin, B., LtCol

TITLE: Piloting a Supersonic Plane (Na sverkhzvukovom samolete)

PERIODICAL: Kryl'ya Rodiny, 1957, Nr 8, pp. 12-13 (USSR)

ABSTRACT: The article is addressed to the Soviet youth. The author describes a demonstration flight of a new jet fighter, capable of developing speeds and gaining altitudes necessary for intercepting the modern bombers, which are out of the reach of ordinary fighters. The article contains no data of scientific interest, and offers no information on the characteristics of the plane.

AVAILABLE: Library of Congress

Card 1/1

NIKITIN, B.V., podpolkovnik

Reconnaisance plane of new speeds. Vest.Vozd.Fl. no.6:17-23 Je '61. (MIRA 14:8)

(Airplanes--Flight testing)
(Kokkinaki, Konstantin Konstantinovich, 1910-)

GOLUBEV, G., polkovnik, voyennyy letchik pervogo klassa, Geroy Sovetskogo Soyuza; NIKITIN, B., podpolkovnik

Work in such a way that every flight is a step ahead. Av. i kosm. 45 no.6:31-39 '62. (MIRA 15:10)

(Aeronautics, Military)

NIKITEN, B., inzh.-kapitan

Checking radio stations. Av.i kosm. 45 no.2:84-86 F '63. (MIRA 16:2)

(Airplanes—Radio equipment—Testing)

NIKITIN, B., podpolkovnik v otstavke

Teacher in a school. Av.i kosm. 45 no.3:70-73 Mr '63. (MIRA 16:3)

(Flight training)

NIKITIN, B.V., dotsent, kand. voyenno-morskikh nauk, kontr-admiral v otstavke

First ship on an air cushion. Mor. sbor. 46 no.8:71-74 Ag '63. (MIRA 16:10)

(Ground cushion machines)

[illegible], [illegible]

"An Automatic Photoelectric Pyrometer," [illegible]rom. Energet., [illegible]o. [illegible], 1[illegible]. Engr., [illegible]

135-7-7/16

SUBJECT: USSR/Welding

AUTHORS: Savchenkov, V.A., and Nikitin, D.G., Engineers.

TITLE: Welding Pipes of Steel "ЭИ578". (Svarka trub iz stali "ЭИ578".

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 7, pp 18-19 (USSR).

ABSTRACT: The data available on welding of high-pressure pipes of steel "ЭИ578", which are used in corrosion-resistant countercurrent cooler-type oil-hydrogenation arrangements, is very scarce, and the welding technology proposed by "ВНИИСТРОЙНЕФТЬ" proved to be unsatisfactory. The Kar'kov branch of the Research Institute for Chemical Machinebuilding developed special electrodes and technology for welding and heat-treatment of these pipes.

For welding pipes of steel "ЭИ578" (which corresponds in chemical composition and mechanical properties to "МПТУ4159-53" electrodes were chosen consisting of rods made of steel "12 " (ГОСТ 2246-54) with a coating composed of (in weight): 50% marble, 27 % fluorspar, 3 % low-carbon ferromanganese, 4 % ferrosilicon, 9 % ferrochrome, 1.5 % ferromolybdenum, 3.5 % ferrotungsten, 1 % ferrovanadium, 1 % powdered metal aluminum, and water glass in the quantity of 30 % of dry compound weight. The

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135-7-7/16

TITLE: Welding Pipes of Steel "ЭИ 578". (Svarka trub iz stali "ЭИ578"

resulting weld metal had a composition close to the base metal. V-connections with 60-65° open angle proved to be appropriate for welding pipes of 16 mm wall thickness. Welding on steel rings and on copper rings resulted in microscopic cracks within the weld root, but ceramic rings of 50 % fireclay and 50 % loam eliminated the cracks.
The ultimate tensile strength of the weld metal is 73.2 kg/mm^2 after heat treatment, the relative elongation is 16.4 %, and the impact resistance is 14.2 kg/cm^2.

The special welding stand (shown in drawing) on which the work was performed at the authors' institute allows balancing, clamping and turning of the pipes, as well as permitting the movement of them axially to control the centering of the interior pipe. Engineer Molchanov's oven was used for heat-treatment. No case hardened structures were revealed in the weld metal which was composed of sorbite with a hardness of 17-20 R_C.

The artide contains 1 micro-photograph, 1 chart of mechanical properties and 1 drawing.

Card 2/3

135-7-7/16

TITLE: Welding Pipes of Steel " ЭИ 578". (Svarka trub iz stali "ЭИ 578"

ASSOCIATION: Khar'kov branch of "НИИХИММАШ" (NIIKhIMMASh)

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 3/3

NIKITIN, D.G., inzh.; LYUBAVSKIY, K.V., doktor tekhn.nauk, prof.;
Prinimali uchastiye: DOLYA, N.A.; VOL'VACH, Ya.I.

Effect of the composition and the continuity of a joint metal on the quality of an enamel coating. Svar. proizv. no.3:4-8 Mr '63. (MIRA 16:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya (for Nikitin). 2. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya (for Lyubavskiy).
(Welding--Testing) (Enamel and enameling)

NIKITIN, D.G.; YUNCHENKO, V.Yu.

Mechanization of the process of homogeneous lead plating of steel chemical equipment. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. 16 no.11:21-23 '63. (MIRA 16:11)

FARBER, G.Kh., inzh. [deceased]; NIKITIN, D.G., inzh.

Reconditioning of thick-walled high pressure apparatus by means of electric arc welding. Khim.mashinostr. no.4:29-32 Jl-Ag '63. (MIRA 16:9)

(Chemical apparatus--Welding)

NIKITIN, D.G., inzh.; LYUBAVSKIY, K.V., doktor tekhn.nauk

Alloying the joint metal with titanium during arc welding for subsequent enameling. Svar.proizv. no.2:3-6 F '64.

(MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya (for Nikitin). 2. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya (for Lyubavskiy).

YURCHENKO, V.Yu., inzh.; NIKITIN, D.G., inzh.; DOLYA, N.A., inzh.

Mechanized, deposition of lead on steel chemical apparatuses by gas welding. Svar.proizv. no.2:29 F '64. (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya.

YURCHENKO, V. Yu., inzh.; NIKITIN, D.G., inzh.; DOLYA, N.A., inzh.

Mechanized method of lead plating chemical equipment. Khim. i neft. mashinostr. no.6:30-31 D '64 (MIRA 18:2)

NIKITIN, D.I.

Producing power gas from milled peat. Gaz. prom. no.4:16-23 Ap '58.
(Peat gasification) (MIRA 11:4)

NIKITIN, D.I.

Role of micro-organisms in the dissolution of scarcely soluble calcium compounds in the soil [with summary in English]. Izv. AN SSSR Ser.biol. 24 no.1:118-122 Ja-F '59. (MIRA 12:2)

1. Institute of Microbiology, Academy of Sciences of the U.S.S.R, Moscow.
(SOIL MICRO-ORGANISMS) (CALCIUM)

NIKITIN, D.I.

Decomposition of humic acids by soil micro-organisms. Izv. AN SSSR. Ser. biol. no. 4:618-625 Jl-Ag '60. (MIRA 13:8)

1. Institut mikrobiologii Akademii nauk SSSR.
(HUMIC ACID) (SOIL MICRO-ORGANISMS)

MISHUSTIN, Ye.N.; NIKITIN, D.I.

Susceptibility of humic acids to attack by soil microflora. Mikrobiologiia 30 no.5:841-848 S-O '61. (MIRA 14:12)

1. Institut mikrobiologii AN SSSR.
(HUMIC ACID) (SOIL MICRO-ORGANISMS)

NIKITIN, D.I.

Conditions determining the activity of the decomposition of humic acid by bacteria. Trudy Inst. microbiol. no.11:41-47 '61. (MIRA 16:11)

1. Institut mikrobiologii AN SSSR.

*

NIKITIN, D.I.; ST[illegible]

Electron [illegible] examination of [illegible] suspen[illegible] AN SSSR. Ser. [illegible]

1. Institute [illegible] Academy of [illegible] Moscow and Laboratory [illegible] Academy of [illegible] of U.S.S.R.

NIKITIN, D.I.

Use of electron microscopy in the study of soil suspensions and cultures of micro-organisms. Pochvovedenie no.6:86-91 Je '64
(MIRA 17:7)

1. Institut mikrobiologii AN SSSR.

NIKITIN, D.I.; VASIL'YEVA, L.V.

Pimbriae in soil micro-organisms. Izv. AN SSSR.Ser.biol. no.3: 400-403 My-Je '65. (MIRA 18:5)

1. Institut mikrobiologii AN SSSR.