

A vertical sintering furnace S/226/62/000/005/005/007
E193/E383

for compacting powder to strip and a vertical sintering furnace).
2) The advantage of a vertical sintering furnace is demonstrated by the fact that a sintering operation requiring 30 - 40 min in a horizontal furnace can be performed in a vertical furnace in 5-7 min. The rate of sintering is increased owing to the following factors: more uniform heating; externally applied stresses in the sintered parts (tensile in the strip, compressive in bushes); no trays hindering the access of the reducing atmosphere to the sintered objective. 3) The floor area required by a vertical furnace is 70 - 80% smaller than that needed in a horizontal furnace of the same productive capacity. The energy-consumption per item sintered in a vertical furnace is also 70 - 80% lower than in a horizontal furnace. 4) Sintering in a vertical furnace reduces the distortion and ensures a more uniform structure and small grain size of the finished product. 5) There are no practical difficulties in using a vertical furnace for sintering strip compacted by rolling metal powders. The tensile strength of iron strip at the sintering temperature is sufficiently high to make feasible sintering in a vertical furnace several metres high. The results of the present investigation have been applied in the production line at the
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S/226/63/000/001/006/016
E193/E383

AUTHOR: Nikolayev, A.N.

TITLE: Compacting and rolling metal powders

PERIODICAL: Poroshkovaya metallurgiya, no. 1, 1963, 42 - 48

TEXT: In a general discussion of the effect of various factors on the density of metal strip produced by powder-metallurgy techniques, the author introduces the concept of volume, plane and linear porosity of powder compacts defined, respectively, as the ratios V_p/V , S_p/S and L_p/L , where V , S and L are unit volume, unit cross-section area or unit length of a porous body and V_p , S_p and L_p the total volume, cross-section area and length of pores contained in V , S and L . He then rejects the view that the porosity and density of powder compacts are anisotropic and quotes experimental evidence showing that as the volume of the sample of a batch of metal powder increases, the scatter in the results of determination of density and loose powder decreases, and that the density of a cold-rolled iron-powder compact may vary across its width between 5 and

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Compacting and rolling

S/226/63/000/001/006/015

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5.6 g/cm². He shows also that the lower the powder particle size the higher is the compacting pressure required to attain the same density. Passing onto the problem of what constitutes a compact most likely to produce a defect (crack)-free product after rolling, the author shows that if a 100% dense, crack-free strip is to be produced by rolling, the compact should have uniform linear porosity in any given direction. He also shows that increasing the thickness of the compact brings about an increase in the uniformity of linear porosity across the compact thickness which, in turn, leads to improved properties (ductility) of the finished product. There are 4 tables.

ASSOCIATION: Gor'kovskiy politekhnicheskii institut
im. A.A. Zhdanova (Gor'kiy Polytechnical
Institute im. A.A. Zhdanov)

SUBMITTED: October 24, 1961

Card 2/2

ACCESSION NR: AP4042265

S/0089/64/017/001/0063/0065

AUTHOR: Daruga, V. K.; Lazutkin, I. I.; Nikolayev, A. N.; Pikhachik, D. N.; Sakharov, V. K.; Sinitsyn, B. I.; Toyapin, S. G.

TITLE: Investigation of spatial energy distribution of BR-5 reactor neutrons in iron-ore medium

SOURCE: Atomnaya energiya, v. 17, no. 1, 1964, 63-65

TOPIC TAGS: reactor shielding, nuclear radiation, iron ore reactor shielding, BR 5 reactor, neutron energy distribution

ABSTRACT: The possibility of using an iron-ore medium as a relatively inexpensive form of nuclear-reactor shielding has been investigated. Ore with a high content of iron and oxygen was used in the experiment. Standard enriched iron ore of the following composition, suitable for construction and to withstand high temperatures without significant changes in its properties, was used as base material: 60% Fe; 30% O₂; 8-10% Si, Mg, Ca, Al; 1% Mn, Pb, Cu, Ti, C. Some binding admixtures were added to the concentrate to improve its constructional properties. A BR-5 fast reactor was used in the investigation. Based on the measurements by all detectors, the curves of

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ACCESSION NO: A0404782

S/0137/01/000/001/0000/0000

AUTHOR: FISHKOV, A. N.

TITLE: Calculating and designing matrix dies for pressing metal powders

SOURCE: Tr. Gor'kovsk. politkhu. in-za, 1963, v. 19, no. 1, 1963, 78-83

TOPIC TAGS: powder metallurgy, diecasting, matrix die, powder metallurgy matrix die, powder metals cracks, crack prevention, critical temperature

TRANSLATION— In previous works, it was shown that the thickness of the walls of matrix dies has to be determined according to the permissible elastic deformation, in which case the elastic deformation of the matrix die should be lower or equal to the permissible deformation of a briquette, wherein the formation of cracks has not taken place yet. The insufficient hardness of the matrix die is the basic reason for the formation of stratified cracks in the briquettes. On the basis of this premise, a formula for determining the thickness of the wall δ of a solid cylindrical matrix die is given:

$$\delta = r \sqrt{(E_{\text{per}} E + 0.7 P_0 / (E_{\text{per}} E - 1) P_0) - P}$$

Cont 1/2

NIKOLAYEV, A.N., Kani. dokl. akad.

Theory of metal powder pressing and rolling. Trudy GMI
19 no. 1:33-41 '63.

Design and construction of dies for the compression of
metal powders. Ibid.:78-83

E 08355-67 EWT(m)/EWP(t)/ETI IJP(c) JD/KW

ACC NR: AR6028130

SOURCE CODE: UR/0058/66/000/005/V061/V061

AUTHOR: Lasutkin, I. I.; Nikolayev, A. N.; Sinitsyn, B. I.

50

TITLE: Removal cross sections of sodium, stainless steel, and nickel

SOURCE: Ref. zh. Fizika, Abs. 5V469

REF. SOURCE: Byul. Inform. tsentra po yadern. dannym, vyp. 2, 1965, 313-319

TOPIC TAGS: sodium, nickel, stainless steel, nuclear, reactor technology

ABSTRACT: The removal cross sections (RC) of sodium, stainless steel, and nickel were measured under conditions of standard geometry at initial neutron energies 0.5, 1.0, 1.2, 3.0, and 15 Mev. The measurement results are listed in a table. Data are also given on the minimal distances from the detector to a plate of heavy material, starting with which RC can be used. On the basis of the obtained data it is possible to determine the energy dependence of the RC of sodium and nickel. A plot for this dependence is given. [Translation of Abstract]

SUB CODE: 20, 16

Card 1/1 not

MALITSEV, M.V.; NIKOLAYEV, A.N.; KHRIMOV, V.G.

Determining the boundary angle of feed during the rolling of metal
powders. Forsh. mat. 5 no.5:17-19 My '65.

1. Gor'kovskiy politekhnichestkiy institut imeni Zhdanova. (MIRA 18:5)

NIKOLAYEV, A. N.

NIKOLAYEV, A. N.- "On the Problem of Hepatitis, Addressed to the State." Institute of Public Health USSR, Leningrad Sanitary-Hygienic Med Inst, Leningrad, 1975. (Disertationes for Degree of Candidate of Medical Sciences)

SO: Kaizhnaya Letopis' No. 26, June 1975, Moscow

ЖУРНАЛ МЕДИЦИНА Sec 12/Vol 13/5 Ophthalmology May 59
NIKOLAYEV, A.N.

731. MYOPIA AMONG THE PUPILS AND THE HYGIENIC CONDITIONS OF THE GENERAL SECONDARY SCHOOLS (Russian text) - Nikolayev A.N. - TRUDY LEN.SAN.-GIG. MED. INST. 1956, 31 (61-68)

In 4 Leningrad schools, offering their pupils the curriculum of a general secondary education, a study was made of the incidence of myopia. Sight testing was carried out on 4383 pupils, and 867 of them had their refraction checked. An investigation was also made of the children's way of life both in and out of school, of the hygienic planning of the school, of the conditions of homework, etc. The author notes several shortcomings in the teaching programme from the hygienist's point of view - the overloading of the pupils in the higher forms with homework, etc. For comparison of incidence of myopia in the schools studied, the standardization method was used. It was found that this incidence was related to the conditions of natural daylighting in the classrooms. The percentage of myopic children increases as the pupils advance from the lower to the higher forms. Measures for prevention of myopia in children are proposed.

(S)

... ..

"Typhoid among city and rural school children and certain environmental factors."

report submitted at the 13th All-Union Congress of Physicians, Microbiologists and Infectiologists, 1959.

GUTKIN, A.Ya., prof.; GLAUER, G.A.; NIKOLAYEV, A.N.; PREOBRAZHENSKAYA, N.N.;
RODINA, A.P.

Physical growth of school children in Kirovsk (Arctic region).
Gig.i san. 25 no.8:23-27 Ag '60. (MIRA 13:11)

1. Is kafedry gigiyeny detey i podrostkov Leningradskogo sanitarno-
gigiyenicheskogo meditsinskogo instituta.
(COLD—PHYSIOLOGICAL EFFECT)
(KIROVSK—CHILDREN—GROWTH)

~~██████████~~ NIZOLYEV, A.M., polkovnik.

Supersonic airplane engines. Vest.Vost.Fl. 40 no.6:56-56 J. '57.
(MLPA 16:8)

(airplanes--Turbojet engines)

NIKOLAYEV, A.M., polkovnik

Turbofan engines. Vest.Vost.Fl. no.7:92-94 31 '60.
(MIRA 13:7)
(Airplane--Turbojet engines)

NIKOLAYEV, A.N., polkovnik

Aeronautic ballistic missiles; according to the foreign press. Test.
Vostok. Fl. no.3:91-93 Nr '60. (MIRA 13:9)

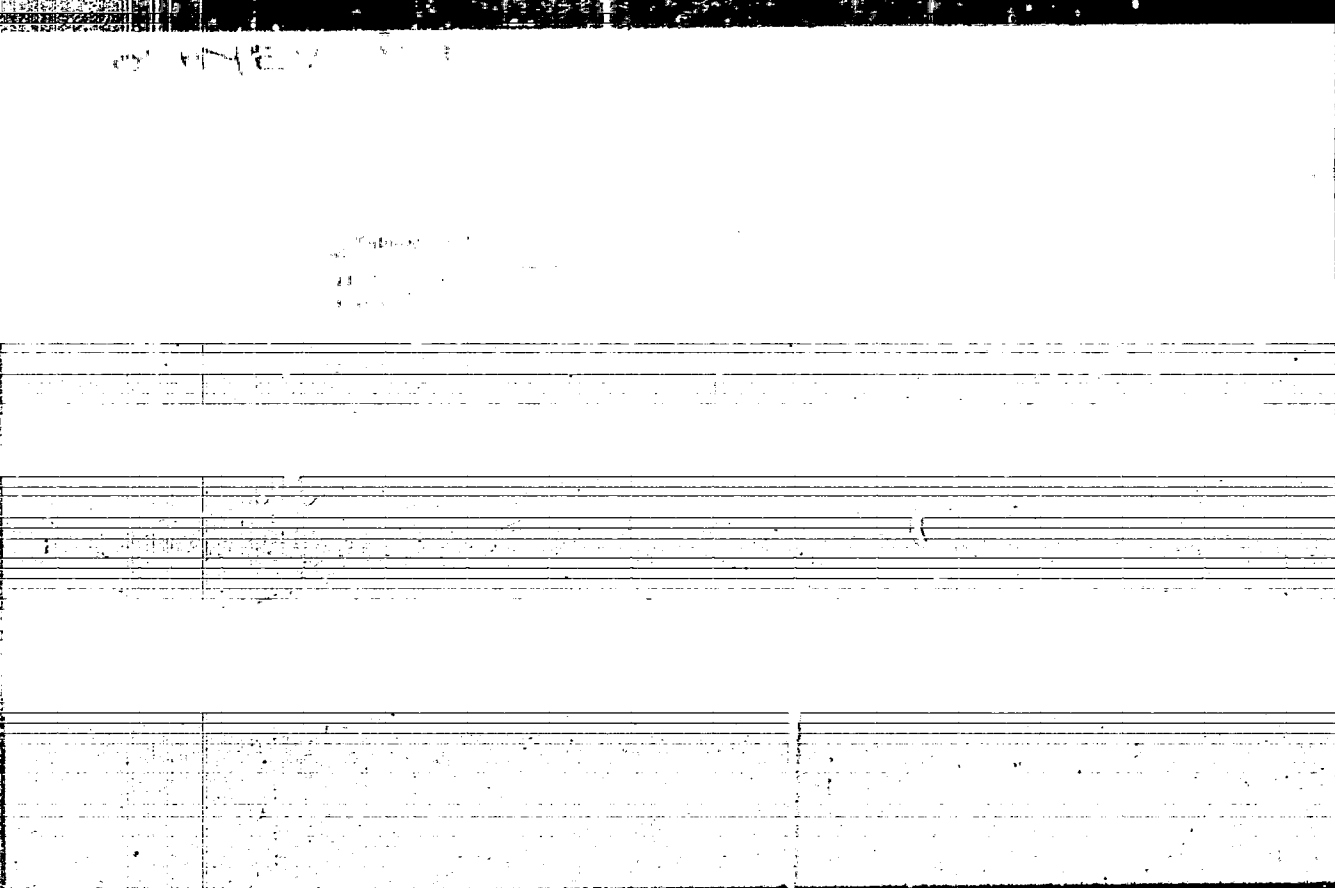
(United States—Ballistic missiles)

DARUGA, V.K.; NIKOLAYEV, A.N.; PINKHASIK, D.S.; SEMITSEV, B.I.; TSYPIN, S.G.

Fast neutron propagation through sodium. Atom. energ. 17 no.2:
145-146 Ag '64 (MIRA 17:8)

NIKOLAYEV, A. P. Cand Tech Sci -- (diss) "Study of the process of distillation of mixtures of ethyl alcohol and water in single tubes and in ²multitubular columns." Kiev, 1957. 15 pp; 3 sheets ~~diagrams~~ ^{diagrams}, 22 cm. (Min of Higher Education USSR. Kiev Technological Inst of Food Industry in A. I. Miboyan), 100 copies (KL, 15-57, 106)

-23-



STASHNIKOV, V.N.; ~~NIKOLAEV, A.P.~~

Purification in pipe columns. Izv. vyz. ucheb. zav.: pishch.
izh. no.3:126-131 '58. (MIRA 11:9)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti,
Kafedra protsessov i apparatov.
(Distillation)

NIDULAYEV, A.F.

Effect of the relative length of tubes on mass transfer in tube
stills. Izv.vys.unshet.sov.pishch.tekhn. no.4:143-146 '58.
(NIRA 11:11)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti, Kafedra protsessov i apparatov.
(Mass transfer) (Distillation apparatus)

NIKOLAYEV, A.F.

Hydrodynamic analogy and its application in the designing of
film rectification apparatus. Trudy NTIPP no.19:85-92 '58.
(MIRA 12:12)

(Distillation apparatus)

NIKOLAYEV, A.F.

Mass transfer during distillation in tubular plate columns. Zhur.
prikl. khim. v. 31 no.5:711-718 My '58. (MIRA 11:6)
(Mass transfer) (Plate towers)

TSTOANKOV, P.S.; NIKOLAYEV, A.P.

Operation of the final rectification column. Spirt. pres. 25
no. 5:20-22 '59. (MIRA 12:10)
(Alcohol)

TSYGANKOV, P.S.; NIKOLAYEV, A.P.

Distribution of the concentrations of alcohol over the plates of
fractionating columns. *Izv.vys.ucheb.sov.; pishch. tekhn.* no. 5:149-
152 '60. (MIRA 13:12)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti.
Kafedra spetsoborudovaniya i Kafedra protsessov i apparatov.
(Alcohol) (Plate towers)

STARNIKOV, V.H.; NIKOLAYEV, A.P.; TSYGANKOV, P.S.; GARBARENKO, V.G.

Hydrodynamic testing of turbogrid-type sieve plates. Trudy KTIPP
no.22:171-177 '60. (MIRA 14:3)
(Plate towers)

TSYGANKOV, P.S.; NIKOLAYEV, A.P.

Design of a new beer rectification unit. Spirt.prom. 27 no.3:22-
25 '61. (MIRA 14:4)

(Distillation apparatus)

TSYGANKOV, P.S.; NIKOLAYEV, A.P.

Calculating the steam consumption for the heating of beer
rectification columns. *Izv. vys. ucheb. zav.; pishch. tekhn.*
no.2:138-142 '63. (MIRA 16:5)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti
kafedra spetsoborudovaniya i kafedra professov i apparatov
pishchevykh proizvodstv.
(Distillation apparatus)

NIKOLAYEV, A.P.; TSIGANKOV, P.S.

Equation of the connection between parameters in the distillation process. *Izv.vys.ucheb.zav.; pishch. tekhn. no.3:138-142 '63.*

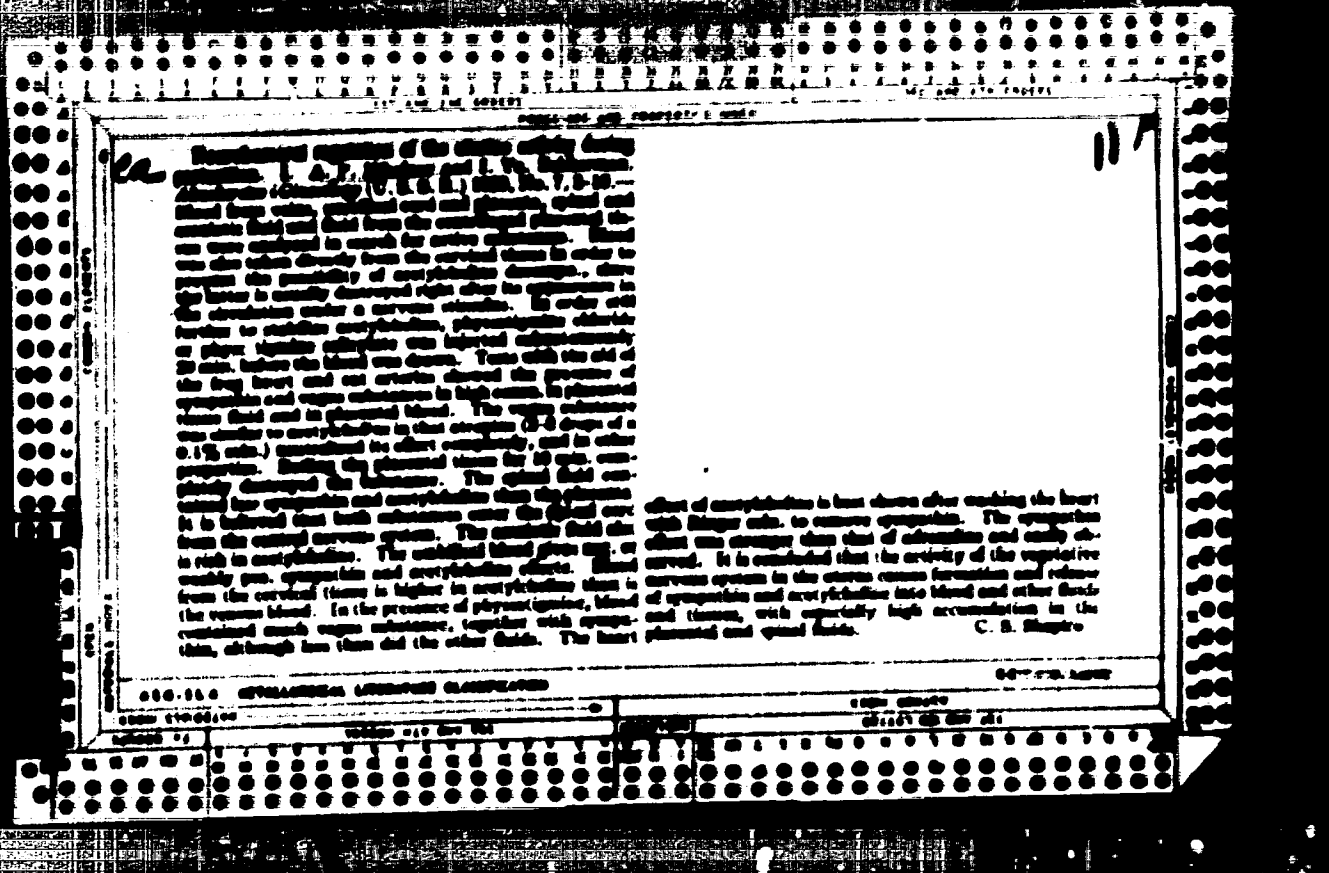
1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti, kafedra protsessov i apparatov pishchevyykh proizvodstv i kafedra oborudovaniya.

(Distillation--Tables, calculations, etc.)

NIKOLAYEV, A.P.

Distilling industry of Cuba. Fern. 1 spirit. prom. 30 no.6:24-27
'64. (MIRA 17:11)

1. Kiyevskiy tekhnologicheskij institut pishchevoy prczyshlennosti
imeni Mikoyana.



NIKOLAYEV, A. F.

37704 k problems obesbleivaniya rodov. akusherstvo i ginekologiya,
1949, No. 6, s. 3-8.

So. Letopis' Zhurnal'nykh Statey, Vol. 47, 1949

NIKOLAYEV, A.P.

[I.P.Favlov's theories and principal problems of obstetrics and *gynecology*]
Uchenie I.P.Favlova i vashneishie problemy akusherstva i ginekologii. Moskva, Izd-vo Akademii med.nauk SSSR, 1951. 38 p. (MLA 6:7)
(Favlov, Ivan Petrovich, 1849-1936) (Obstetrics) (Gynecology)

БИКОЛАТНУ, А.Ф.

I.P.Pavlov's teaching and principal scientific practical problems of obstetrics and gynecology. Akush gin. No.1:6-16 Jan-Feb 51. (GML 20:5)

1. Corresponding Member of the Academy of Medical Sciences USSR (Leningrad).

NIKOLAYEV, A.P.

Pavlovian theory on the higher nervous function as the scientific base for solution of practical problems in obstetrics and gynecology. Zh. vysshel nerv. deiat. 1 no. 5:667-681 Sept-Oct 1951. (CMLL 23:3)

1. Leningrad.

NIKOLAYEV, A.P.

~~CONFIDENTIAL~~
Certain results of introduction of the pavlovian theory into scientific and practical obstetrics. *Akush.giz., Moskva* No.4;3-14 July-Aug 51.
(CML 21:1)

1. Corresponding Member of the Academy of Medical Sciences USSR A.P. Nikolayev (Leningrad). 2. Of the Institute of Obstetrics and Gynecology of the Academy of Medical Sciences USSR.

Vashchiklo problemy auz strova i ginakologii v svete uchenia I. P. Pavlova.
Stenogramma publichnoi lektsii "I. P. Pavlov i ego uchenie" [Most important part is in
obstetrics and gynecology in the light of the teachings of I. P. Pavlov; transcript of
a public lecture]. Leningrad, 1938. 28 p. (Vskhuz. o-vo po raz. razr. nauka. i
nauch. zhurnil. Leningr. otd.)

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NIKOLAYEV. A.P.

[Prevention and therapy of intrauterine asphyxiation of the fetus]
Profilaktika i terapiya vnutritrobovoi asfikcii ploda. Moskva, Izd-vo
Akademii med. nauk SSSR, 1952. 102 p. (MEDA 6:5)

(Fetus, Death of)

NIKOLAY, A.P.

Materialistic Pavlovian theory as a base for reorganization, development,
and improvement of obstetrics and gynecology in the Soviet Union. Akush.
giz., Moskva no.43-18 July-Aug 1952. (GLML 2):2

1. Professor, Active Member of the Academy of Medical Sciences USSR,
Stalin Prize Winner.

NIKOLAYEV, A.F.

**Theoretical review of psychoprophylaxis of pain in labor. Akush. gin.,
No. 5:56-64 Sept-Oct 1952. (CIHL 23:2)**

1. Active Member of the Academy of Medical Sciences USSR. 2. Leningrad.

KRYZHANOVSKAYA, Ye.F.; GARMASHOVA, N.L., zaveduyushchiy; NIKOLAYEV, A.P., direktor;
AYRAPET'YANTS, B.Sh., zaveduyushchiy; BYKOV, K.M., akademik, direktor.

Data for the characteristics of uterine reception. Vop.fisiol.int. no.1:265-
272 '52. (MLA 6:8)

1. Laboratoriya patofiziologii Tsentral'nogo instituta akusherstva i ginekologii Akademii meditsinskikh nauk SSSR (for Garmashova). 2. Tsentral'nyy institut akusherstva i ginekologii Akademii meditsinskikh nauk SSSR (for Nikolayev). 3. Laboratoriya interseptivnykh uslovykh reflektsov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Ayrapet'yants). 4. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov).
(Nervous system) (Uterus)

1. NIKOLAYEV, A.P.
2. USSR 600
4. Vascular System - Diseases - Labor (Obstetrics)
7. Pregnancy, Complications of Pregnancy and labor in cardiovascular diseases. Akush. i gin. no. 2, 1952. Chlen-Korrespondent Akademii Meditsinskikh Nauk SSSR
- 9a. Monthly List of Russian Accessions. Library of Congress, June 1952. Unclassified.

NIKOLAYEV, A. P., Prof.

Active member of the Academy of Medical Sciences of the USSR

"Pavlov's materialistic theory is the basis of the reconstruction, development, and accomplishments in Soviet obstetrics and gynecology." Akush. i gin. no.4:3-13, J1-Ag, 1952

CHILDBIRTH-PSYCHOLOGY

Theoretical review of psychoprophylaxis of pain in labor. Akush. i gine. No. 5, 1952.

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NIKOLAYEV, A.P., laureat Stalinskoy premii; **ANISIMOV, A.V.**, redaktor;
KUZNEVA, N.S., tekhnicheskiiy redaktor

[Studies on the theory and practice of obstetrical anaesthesia]
Osobni teorii i praktiki obstetivaniya rodov. [Leningrad] Gos.
izd-vo med. lit-ry Naigis, Leningradskoe otd-nie, 1955. 17) p.
(NLM 10:2)

1. **Bozstvitel'nyy otdel Akademi meditsinskikh nauk SSSR** (for
Nikolayev)

(ANESTHESIA IN OBSTETRICS)

Ocherki teorii i praktiki gosplanovaniya i razvitiya [Concepts and practice of
statistical accounting]. Leningrad, Nakhia, 1952. 175 p.

SO: Monthly List of Russian Acquisitions, Vol 7, No 2, July 1951.

EROVKIN, D.P., professor; NIKOLAYEV, A.F., professor, deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, direktor.

**Prevention and therapy of eclampsia. Akush. i gin. no. 3:21-26 Ny-Je '53.
(MIRA 6:7)**

**1. Institut akusherstva i ginekologii. 2. Akademiya meditsinskikh nauk SSSR (for Nikolayev).
(Convulsions)**

KOBOKEVA, N.V.; NIKOLAYEV, A.P., professor, chief-korrespondent Akademii meditsinskikh nauk SSSR, direktor.

Sodium amytal as a preparation which enhances the narcotic effect of pentothal sodium (thiopental sodium). *Sev.med.* 17 no.10:27-28 0 '53. (MLA 6:10)

1. Oddeleniye operativnykh metodov lecheniya Instituta akusherstva i ginekologii Akademii meditsinskikh nauk SSSR. 2. Akademiya meditsinskikh nauk SSSR (for Nikolayev). (Narcotics)

POLYAKOVA, G.N.; NIKOLAYEV, A.P., professor, ~~deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, direktor~~

Early breast feeding of newborn infants. Vop.pediat. 21 no.4:56-58 J1-Ag '53.
(MEDA 6:10)

1. Otdeleniye nevroshdenykh Instituta akusherstva Akademii meditsinskikh nauk. 2. Akademiya meditsinskikh nauk SSSR (for Nikolayev).
(Infants--Nutrition)

NIKOLAYEV, A.F., professor, laureat Stalinskoy premii, redaktor;
KAMENOVA, V.P., redaktor; **BOBROVA, Ye.N.**, tekhnicheskii re-
daktor.

[Technique of pregnancy] Tekhnika beremennosti. Moskva, Gos.
izd-vo med. lit-ry, 1954. 115 p. (MEDA 7:11)

1. Deyatel'nyy chlen Akademii meditsinskikh nauk SSSR.
(Pregnancy, Complications of)

NIKOLAEV, A. P. ed

Psychoprophylaxis of labor pains; lectures for obstetricians. Leningrad.
Medgiz, 1954. 289 p.

NIKOLAYEV, A.P.

**Anesthesia in labor in capitalistic countries. *Zhukh. i gos. no. 1:*
36-4) Ja-B '54. (MIRA 7:6)**

- 1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR.
(Labor (Obstetrics)) (Anesthesia in obstetrics)**

DOMIGEVICH, Mikhail Ivanovich, kandidat meditsinskikh nauk; NIKOLAYEV,
A.P., redaktor; GITSEBYN, A.D., tekhnicheskij redaktor

[A method of psychoprophylaxis to insure painless labor] Metod
psikhoprofilaktiki bolei v rodakh. Kiev, Gos. med. izd-vo USSR,
1955. 171 p. (MLBA 9:8)
(CHILDBIETH--PSYCHOLOGY)

NIKOLAY, A.P.

[Weakness in labor and its treatment] Slabost' rodoval'noy deyatelnosti
i ee lechenie. Kiev, Gos. med. iss-vo USSR, 1956. 66 p. (NIRA 9:10)
(LABOR, COMPLICATED)

NIKOLAYEV, A.F. , Professor

Methods of psychoprophylactic preparation for labor. Akush. i gin.
32 no.3:17-21 No-Je '56. (MLBA 9:9)

1. Bezsvitel'nyy chlen ANE SSSR
(LABOR,
painless, psychoprophylactic prep., methods (Rus))

NIKOLAYEV, A.F., prof.

**Principal aspects of the creative application of Pavlov's
physiological teachings in obstetrics and gynecology. Akush.
1 gin. 33 no.5:42-57 8-0 '57. (NIRA 12:5)**

1. Deystvitel'nyy chlen ANU SSSR.

(OBSTETRICS

application of Pavlovian theory, review)

(GYNECOLOGY

same)

BAKER, S.M.; YEVOKIMOV, A.I.; KIRSHENBLAT, Ya.D.; KONSTANTINOV, V.I.;
LEVI, M.P.; MER'YE, A.P.; NIKOLAYEV, A.P., prof.; NOVOMEL'NIY,
V.A.; PASHENKO, N.A.; SHANIN, V.V.; SYKIN, M.N., red.;
GITSHENIN, A.D., tekhnred.

[Practical obstetrics; selected chapters] Prakticheskoe akusherstvo;
izbrannye glavy. Kiev, Gos.med.isd-vo USSR, 1958. 565 p.

(MIRA 12:2)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for
Nikolayev).

(OBSTETRICS)

NIKOLAYEV, Anatoliy Petrovich

[Essays on the theory and practice of anesthesia in labor] Ocherki
teorii i praktiki obzholivaniia rodov. Izd.2., 1spr. 1 dop.
Moskva, Medgiz, 1959. 254 p. (NIPA 13:9)
(ANESTHESIA IN OBSTETRICS)

NIKOLAYEV, A.P.

Planning scientific research in obstetrics and gynecology. Vest.
AMN SSSR 14 no.1:64-69 '59. (NIRA 12:2)

1. Razvitiye zhenskogo organiz. in Russia (Rus)
(OBSTETRICS
(GYNECOLOGY,
same)

NIKOLAYEV, A.P., prof. (Kiyev)

Problems in the efficient management of labor. Ped., acash. 1
gia. 22 no.9:35-40 '60. (MIRA 14:4)

1. Daystvital'nyy chlen ANU SSSR.
(LABOR (OBSTETRICS))

NIKOLAYEV, A.P.

Status of and prospects for anesthesia in labor in the U.S.S.R.
Vest. AN SSSR 16 no.2:64-69 '61. (MIRA 14:10)
(ANESTHESIA IN OBSTETRICS)

NIKOLAYEV, A.P. [Nikolaiev, A.P.], prof. (Siyev)

Hypo- and afibrinogenemia. Ped., akash. i gin. 23 no.1:40-45 '61.
(MIRA 14:6)

1. Deystvitel'nyy khlen ANU SSSR.
(HEMORRHAGE, UTERINE) (FIBRINOGEN)

NIKOLAIEV, A.K., prof.

Some problems of present-day obstetrics. Fed., akush. i gin. 23
no. 5: 34-37 '61. (MIA 14:12)

1. Deyatvitel'nyy chlen AMN SSSR.
(OBSTETRICS)

NIKOLAYEV, A.P., otv. red.; SHKOL'NIK, B.I., kand. med. nauk, red.;
BAKSHEV, N.S., prof., red.; VINOGRADOVA, S.P., prof., red.;
GRISHCHENKO, I.I., prof., red.; KORNILOVA, A.I., kand. med.
nauk, red.; KONSTANTINOV, V.A., prof., red.; MEDYANIK, R.V.,
red.; PAP, A.G., kand. med. nauk, red.; PETERBURGSKIY, F.Ye.,
prof., red.; SAVITSKIY, V.N., prof., red.; STEPANKOVSKAYA,
G.S., kand. med. nauk, red.; TIMOSHENKO, L.V., dots., red.;
YANKELEVICH, Ye.Ye., prof., red.

[Transactions of the Third Congress of Obstetricians and
Gynecologists of the Ukrainian S.S.R.] Trudy III s'ezda
akusherov-ginekologov Ukrainskoi SSR. Kiev, Gosmedizdat,
1962. 370 p. (MIRA 17:5)

1. S'yezd akusherov-ginekologov Ukrainskoy SSR. 3d, Kharkov,
1961. 2. Deystvitel'nyy orden AMN SSSR (for Nikolayev).

NIKOLAYEV, A.P., prof., red.; ALIFOV, V.I., red.

[Anesthesia in labor] Obezbolivanie rodov. Leningrad,
Meditsina, 1964. 214 p. (MIRA 18:1)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Doyatvi-
tel'nyy chlen AMN SSSR (for Nikolayev).

ANISHCHENKO, R.I.; NIKOLAYEV, A.P.; MEN', A.N.

Calculation of parameters characterizing the energy spectrum
of impurity ions in crystal fields of various symmetry. Teoret.
i eksper. khim. 1 no. 5667-690 8-0 '65 (MIRA 1961)

1. Institut metallurgii, Sverdlovsk. Submitted July 5, 1965.

L 21232-66 EWT(1)/EWT(m)/EWP(t) IJP(c) JD/AT

ACC NR: AP6003802 SOURCE CODE: UR/0181/66/003/001/0251/0253

AUTHORS: Anishchenko, R. I.; Nikolayev, A. P.; Men', A. N.

ORG: Institute of Metallurgy, Sverdlovsk (Institut metallurgii) 57
56

TITLE: On the calculation of the diamagnetic susceptibility in B
the statistical model

SOURCE: Fizika tverdogo tela, v. 8, no. 1, 1966, 251-253

TOPIC TAGS: diamagnetism, magnetic susceptibility, statistic
physics, crystal lattice structure, ion interaction, paramagnetism,
conduction electron

ABSTRACT: The authors used ^{21.4.57} the Thomas-Fermi-Dirac (TFD) ^{21.4.57} (statistical
model to calculate the electron density and from it the diamagnetic
susceptibility. It is assumed that for each atom (ion) the distri-
bution of the charge is spherically-symmetrical within a sphere of
radius R_0 , and that the potential satisfies certain relations. The
diamagnetic susceptibility calculations are presented for Cu, Zn,
Ag, Mg, and O and some of their ions. The results show that the

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L 21232-46

ACC NR: AP6003802

susceptibility depends not only on the type of the ion but also on the position in the crystal. The experimental values of the susceptibility for pure metals differ from those calculated because of the paramagnetism of the ionic core. Satisfactory agreement with experiment is obtained if it is assumed that the diamagnetic susceptibility of the conduction electrons amounts to about one-third of the paramagnetic susceptibility. The diamagnetic susceptibility of compounds is calculated in the additive approximation and is found to be in fair agreement with the experimental data. Orig. art. has: 5 formulas and 2 tables.

SUB CODE: 20/ SUBM DATE: 23Jul65/ ORIG REP: 005/ OTH REP: 005

Card 2/24

NIKOLAYEV, A.F.

Automatic machine for cutting lined hammer heads. Der. pres. 8
no. 612-13 Ag, '59. (NIRA 12:12)

1. Fabrika klavichykh instrumentov "Krasnyy Otkrytk".
(Plane--Construction) (Woodworking machinery)

MAZUROVA, Yelena Dmitriyevna; NIKOLAYEV, Aleksey Fetserich;
ALMEER, I.S., inzh., red.; BOGOMOLOV, B.A., red.;
FLADNE, L.Yu., tekhn.red.

[German-Russian dictionary on woodworking] *Nezatsko-russkii*
slavar' po derevesbrabotke. Pod red. I.S.Alamera. Moskva,
Glav.red.inostr.nauchno-tekhn.slovari Finmatgiz, 1962.
215 p. (MIRA 15:5)

(Woodwork—Dictionaries)
(German language—Dictionaries—Russian)

NIKOLAYEV, A.F.

Materials on the classification and biology of the dab in the
White Sea. Vop. ikht. no. 4:57-62 '55. (MIRA 9:6)

L. Karelo-Finckiy filial Akademii nauk SSSR.
(White Sea--Flatfishes)

NIKOLAYEV, A.P.

Arctic flounder in Omega Bay (White Sea). Vop. ikht. no. 5:85-94
'55. (MLBA 7:5)

1. Belomorskaya stantsiya Instituta biologii Karelo-Finskogo
filiala Akademii nauk SSSR.
(Omega Bay--Flounders)

NIKOLAYEV, A.P.

Navaga in Omega Bay of the White Sea. Mat. po kompl.isust. Biol.
ser. no.1:140-154 '57. (MIRA 10:8)

1. Nauchnaya biologicheskaya stantsiya Instituta biologii
Karel'skogo filiala Akademii nauk SSSR.
(Omega Bay--Godfish)

L 3336-66 ENT(1)/T IJP(c) GG

ACCESSION NR: AP5017316

UR/0181/65/OCT/007/2180/2185

AUTHORS: ^{44.85} Men' A. N.; ^{44.85} Muftakhova, F. I.; ^{47.55} Nikolayev, A. P.; ^{44.85} Cherepanov, V. I.

58
55
B

TITLE: On the account of the 'interaction' of the terms in the calculation of the EPR spectra of the iron-group ions

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2180-2185

TOPIC TAGS: electron paramagnetic resonance, EPR spectrum, cubic crystal, crystal lattice structure, ion

21.44.55

ABSTRACT: General expressions are obtained for the parameters of the spin Hamiltonian of the iron-group ions in a crystalline field of cubic symmetry with account of the interaction between the terms. The influence of the terms on the spin-Hamiltonian constants is analyzed for ions with configuration d^n ($n = 1-9$) in octahedral and tetrahedral lattice points with cubic island symmetry. It is shown that it is sufficient to confine the calculations to the cases d^2 and

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L 3336-66

ACCESSION NR: AP5017316

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d^7 (octahedral lattice point) and d^3 (tetrahedral lattice point). Tables are presented for the splitting of the ground levels of the ions with configurations d^2 , d^3 , and d^7 under the influence of the spin-orbit interaction and of an external magnetic field, and for constants of the EPR spectrum for the same ions. It is shown that the term interaction can become significant in the calculation of the spin-Hamiltonian constants. Orig. art. has: 1 figure, 2 formulas and 2 tables.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo Sverdlovsk (Ural State University)

SUBMITTED: 23Nov64

ENCL: 00

SUB CODE: NP, OP

NR REF SOV: 002

OTHER: 006

Card 2/2 DP

MAKSIMOV, A.A.; NIKOLAYEV, A.S.

Zonal characteristics of the Ob' floodplain during spring and summer flood periods. Izv. SO AN SSSR no. 8. Ser. biol.-med. nauk no. 2:68-78 '63. (MIRA 16:11)

1. Biologicheskii institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.



SURMOV, V.D.; NIKOLAYEV, A.S.

Practical standard for evaluating the work of milk fat separators.
Izv.vys.nucheb.sov.pishch.tekh. no.4:136-142 '58.

(NIRA 11:11)

1. Moskovskiy tekhnologicheskiy institut zhivnitsy i mlechnoy promyshlennosti, Kafedra protsessov i apparatov pishchevyykh proizvodstv.
(Separators (Machines)) (Butterfat)

SURKOV, V.D.; MARTYSHKIN, A.Ye.; NIKOLAYEV, A.S.

Investigating the relationship between vibrations in separators
and the extent of fat removal from milk. *Izv.vys.ucheb.sov.;*
pihch.tekh. no.1:123-129 '59. (MIRA 12:6)

1. Moskovskiy tekhnologicheskiy institut mjasnoy i molochnoy
promyshlennosti, kafedra tekhnologii mola i molochnykh produktov.
(Cream separators—Vibration)

SURKOV, V.D.; MARTYSHKIN, A.Ye.; NIKOLAYEV, A.S.

Investigation of vibration factors of a loaded drum in a cream separator. *Izv. vys. ucheb. zav.; pribch. tekhn. no.2: 93-95, 1967.*
(MIRA 14:7)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra tekhnologii moloika i molochnykh produktov.

(~~Assoc. Computers~~—Vibration)

MARTYSHEKIN, A.Ye.; NIKOLAYEV, A.S.

Effect of the technology of production and balancing on the unbalance of cream separator drums. *Izv. vys. ucheb. zav.; pishch. tekhn.* no.5:92-96 '61. (MIRA 15:1)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti. Kafedra tekhnologii moloka i molochnykh produktov. (Cream separators)

Nikolayev, A.S.
AUTHOR: Nikolayev, A.S., Engineer

133-11-6/19

TITLE: **The Production of High-grade Steels in the USSR**
(**Kachestvennaya metallurgiya SSSR**)

PERIODICAL: **Stal'**, 1957, no.11, pp. 987 - 991 (USSR)

ABSTRACT: An historical review of the development of the production of high-grade steels in the USSR with special reference to the rapid increase in production during 1947-1956 is given.

AVAILABLE: Library of Congress
Card 1/1

NIKOLAYEV, A. S.

137-58-5-9186

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 62 (USSR)

AUTHOR: Nikolayev, A.S.

TITLE: Basic Methods of Reducing the Consumption of Molds (Osnovnyye puti snizheniya raskhoda izloshnits)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 518-523

ABSTRACT: The author examines the effect of quality, design, and operational conditions of molds (M) on the extent of their consumption. Data showing the consumption in M's per ton of steel in USSR plants during the period of 1951-1956 are presented together with identical data from British plants for the 1951-1952 period; it is pointed out that, during this period, the wear of M's in domestic plants had been reduced by 6-32% but that its magnitude still exceeds the corresponding figures in the British plants. It is pointed out that the following measures are in order: the establishment of stricter limits for the chemical composition of the cast iron used in the M's based on observations of the rate of wear; stricter specifications for dimensioning and finish of their internal surfaces as well as reduction of wall thickness in

Card 1/2

133-2-13/19

AUTHOR: Nikolayev, A.S.

TITLE: Steel Used in Foreign Countries for Drop Forging (Shtampovyye stali, primenyaemye za rubezhom dlya deformirovaniya metalla v goryachem sostoyanii)

PERIODICAL: Stal', 1958, Nr 2, pp.162-163 (USSR)

ABSTRACT: This is a review of Western literature on the subject. There are 2 tables and 3 English references.

AVAILABLE: Library of Congress.

Card 1/1

NIKOLAYEV, A.S.

Effect of microadditions of low-melting elements on the plasticity
of stainless steel under the effect of hot working. Steel 25
no.12:1120-1122 D '65. (MIRA 18.12)

I. Mentral'nyy nauchno-issledovatel'skiy institut khimii
metallurgii imeni I.P. Bardina.

NIKOLAYEV, A.S.

Dissertation: "Physical Bases of the Scheduled Regulation of Sulfite Cooking." Cand Tech Sci, Leningrad Forestry Engineering Academy imeni S.M. KIROV, Leningrad, 1954. (Referativnyy Zhurnal, Khimiya, Moscow, No. 15, Aug 54)

SO: SUM 393, 28 Feb 1955

NIKOLAYEV, A.S.; AFONCHIKOV, N.A.

**Automation of the technological processes of paper production.
Dokl. Akad. Nauk SSSR, 1964, no. 10: 19-21, 0 '54. (NIIA 7:11)**

- 1. Leningradskaya bumazhnaya fabrika "Gosnak"
(Papermaking machinery)**

CZECHOSLOVAKIA/Chemical Technology. Chemical I-25
Products and Their Application--Wood chemistry
products. Cellulose and its manufacture. Paper

Abs Jour: Ref Zhur-Khimiy , No 3, 1957, 10004

Author : ~~Nikolajev, A. S.~~ and Chlov, K. H.

Inst : Not given

Title : The Automatic Regulation of Blowers

Orig Pub: Papir a celuloza, 1956, Vol 10, No 11, 243-244
(in Czech)

Abstract: Translation. See IZMIRin, 1956, 20945.

Card 1/1

NIKOLAYEV, A.S., kandidat tekhnicheskikh nauk; KHOKHLOV, K.M.

Speeding up the process of cooking chips in sulfite cooking. *Izv.*
prom. 30 no.1:18-19 Ja '55. (MIRA 6:3)

1. Glavnyy instanser Khimicheskogo tsellyuloznoye zavoda.
(Paper industry)

NIKOLAYEV, A.S., kandidat tekhnicheskikh nauk; KHOKHLOV, L.M., glavnyy
YENKOR;

Automatic control of blow-offs. *Dokl. Akad. Nauk SSSR* no. 7:16-17 J1'55.
(NISA 8:10)

1. *Hyandenskiy teolnyatsnyy savod* (for Khokhlov)
(Paper making machinery) (Automatic control)

USSR, Processes and Equipment for Chemical Industries
Control and Measuring Devices. Automatic Regulation

K-2

Abstr Jour : Referat Zhur - Khimiya, No 4, 1957, 14260

Author : Nikolayev A.S.

Title : On Automation of Cellulose Cooking Process

Orig Pub : Sam. prom-st', 1956, No 1, 6-8

Abstract : Most efficient in cooking of cellulose is scheduled automatic regulation. Utilization of flexible feedback in the regulation system is not justified. Since the cooking digester is a unit having extensive, positive self-adjustment, astatic regulation without feedback is to be recommended in conjunction therewith. Experimental verification of the above-stated propositions was carried out by the author at the Ryan'domskiy cellulose plant, where tests were conducted with a regulation system comprising as control instrument a single-position, astatic ~~ESM-4~~ regulator

Card 1/2

- 33 -

Card 2/2

- 34 -

НИКОЛАЕВ, А.С., кандидат технических наук.

~~Секрет~~
Beta-ray paper thickness gauge. Diss. prom. 31 no.12:11-13 D '56.
(Beta rays--Industrial applications)(KLM 10:2)
(Paper--Measurement)

(N) L 12142-66 EWT(m)/EPF(n)-2/EWA(d)/EMP(t)/EMP(k)/EMP(z)/EMP(b)/EWA(c) IUP(c)
 ACC NR: AP6000597 JG/HW/HW/JG UR/0133/65/000/012/1120/1122

AUTHOR: Nikolayev, A. S.

ORG: TsNIIIGM

TITLE: Effect of the addition of micro-amounts of low-melting elements on the plasticity of stainless steels during hot working

SOURCE: Stal', no. 12, 1965, 1120-1122

TOPIC TAGS: low melting element, stainless steel, plasticity, tin, bismuth, lead, antimony

ABSTRACT: The effect of low-melting alloy elements (Sn, Bi, Pb, Zn, Sb, As) on the properties of stainless steels has previously been relatively uninvestigated. To fill this gap, the author presents and analyzes recent findings (Pridantsev, M. V. Vliyanie primsey i redkozemel'nykh elementov na svoystva splavov. Metallurgizdat, 1962, pp 46, 60-62; Lench, Dunsten, W.P. Electric Furnace Conference, Pittsburgh Meeting, 1961, Dec. 6-8; Bergh, S. Jernkontorats annaler, 1948, v. 132, no. 6, 213-220). It is shown that micro-amounts of these elements markedly reduce the plasticity of stainless steels during deformation in hot state. Low-melting elements tend to segregate at grain boundaries and weaken the bonds between grains. The adverse effect of low-melting elements on the hot plasticity of stainless steels and particularly austenitic

Card 1/2

UDG: 669.15

1 17142-66

ACC NR: AP6000597

high-nickel-based steels increases with increasing content of these elements in the steel as well with increasing weight (mass) of the ingots. Since these elements do not oxidize during melting and (e.g. Bi and Pb) are either totally or relatively insoluble in the Fe-base solid solution, the only way of reducing their content in steel is by using charge materials of higher purity. In order to enhance the plasticity of stainless steel during hot deformation, the content of low-melting elements in the furnace charge must be reduced to the feasible and economically expedient minimum, which for Pb amounts to 0.0006-0.10%; for Sb, 0.009-0.115%; for S, 0.014-0.125%; for Zn, 0.001-0.005, depending on the type of stainless steel. Orig. art. has: 2 figures.

SUB CODE: 11, 13/ SUM DATE: none/ ORIG REF: 001/ OTH REF: 002

HW
Cord 2/2

NIKOLAYEV, A.S., inventor

Painting facades with perchlorovinyl paints. Sber. nat. o nov. tekhn.
v stroi. 17 no. 6:29-30 '55. (MIRA 6:11)
(Painting, Industrial)

GOZLAND, Sh.N., kand.tekhn.nauk; **LEBINTSOV, N.N.,** inzh.; **NIKOLAYEV, A.S.,**
inzh.; **POULSENKO, V.F.,** inzh.; **PLAKINA, N.A.,** kand.tekhn.nauk;
POZADNYA, A.I., doktor tekhn.nauk; **SPIRIDONOVA, O.N.,** kand.tekhn.
nauk; **SVYATSKIY, P.S.,** inzh.; **FEDOROV, B.D.,** inzh., retseknut;
FIL'KINA, Ye.A., tekhn.red.

[Manual on finishing operations] Spravochnik po otdelechny
rabotam. Pod red. A.I.Pozadnia i O.N.Spiridonovoi. Leningrad,
Gosizd-vo lit-ry po stroit., arkhit. i stroit.materiale,
1960. 497 p. (KIRA 14:4)

1. Leningrad. Glavnoye stroitel'noye upravleniye.
(Finishes and finishing)

NIKOLAYEV, Aleksandr Sergeyevich, inzh.; KOMAROVSKIY, M.F., red.; POMICHYEV,
A.G., red. inzh-vuz; BELOGUROVA, I.A., tekhn. red.

[Finishing building facades with paste compositions] Otdelka fasadov
stenii pastevymi sostavami; opyt tresta "Fasadremstroi." Leningrad,
1961. 16 p. (Leningradskii Dom nauchno-tekhnicheskoi promyshlennosti. Ob-
men poradkovymi opytom. Seriya: Stroitel'naya promyshlennost', no.10)
(MIRA 14:7)

(Paste)

(Finishes and finishing)

GOLAND, Sh.N., kand. tekhn. nauk; LEDENTSOV, N.M., inzh.; NIKOLAYEV, A.S., inzh.; PAVLENKO, V.T., inzh.; PLAKIDA, M.A., kand. tekhn. nauk; PORADNYA, A.I., doktor tekhn. nauk; SPIRIDONOVA, O.N., kand. tekhn. nauk; SVYATSKII, P.S., inzh.; FEDORTSOV, B.D., inzh., retsentsent; KAPLAN, M.Ya., red. iz'-va; PUL'KINA, Ye.A., tekhn. red.

[Handbook of finishing operations] Spravochnik po otdelechym rabotam. Pod red. A.I.Poradnia i O.M.Spiridonovoi. Leningrad, Gos. ind-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 497 p. (MIRA 14:7)

1. Leningrad. Upravleniye po zhilishchnomu i grazhdanskomu stroitel'stvu.

(Finishes and finishing)

NIKOLAYEV, Aleksandr Sergeevich; KARPOV, V.V., red.; TELYASHOV,
K.M., red.1st-vn; MILOKHINOVA, I.A., tekhn. red.

[Silicate paints] Silikatnye kraski. Leningrad, Ob-vo po
rasprostraneniю politicheskikh i nauchn. znaniй NPSR,
1963. 19 p. (Leningradskiy dom naučno-tekhnicheskoi pro-
pagandy. Obmen peredovym opytom. Seriya: Stroitel'nye ma-
terialy, no.2) (MIRA 16:7)

(Paints)

NIKOLAYEV, A.T.

VINTER, A.V., akademik; KUKUSHKIN, I.N., inzhener; TRAPEZNIKOV, V.A.;
 NIKOLAYEV, A.T., inzhener (Murontsevo, Vladimirskoy obl.); KUDALIN,
 Ye.M. (Murontsevo, Vladimirskoy obl.); PETROV, I.I., doktort, kandidat
 tekhnicheskikh nauk (Moscow); BADALYANTS, M.G., inzhener; BELICHENKO,
 G.M., inzhener; KLAPCHUK, L.D., inzhener; FRANTSUEV, Ye.M., inzhener;
 TARAYEV, B.M., professor, doktor tekhnicheskikh nauk; MAGIDSON, A.O.,
 inzhener.

Improving the knowledge of power engineers through correspondence
 courses. Remarks on B.M.Tarayev's and A.O.Magidson's article. Elek-
 trichestvo no.3:76-80 Nr '54. (MIRA 7:4)

1. Energeticheskiy institut im. Krshishanovskogo Akademii nauk SSSR
 (for Vinter). 2. Glavnyy energetik Gor'kovskogo avtomobil'nogo
 zavoda im. Malotova (for Kukushkin). 3. Institut avtomatiki i tele-
 mekhaniki Akademii nauk SSSR (for Trapeznikov). 4. Chlen-korrespon-
 dent Akademii nauk SSSR (for Trapeznikov). 5. Leninskoye (for Bada-
 lyants). 6. Dnepropetrovskiy institut inzhenerov transporta (for Be-
 lichenko). 7. Karakhevskaya gres (for Klapchuk). 8. Orekhovo-Sayev-
 skaya tets (for Frantsuev). 9. Vsesoyuznyy nauchnyy energeticheskiy
 institut (for Tarayev and Magidson).

