"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

CA

1A

Specificity of cholesterol esterase towards spatial isomerism of sterols. [illegible] Nedzvetskii. Med. Inst., Yaroslavl, Russia. *Biokhimiya* 11, [illegible] (Of the hydrogenated derivs. of cholesterol, only cholestanol is esterified by stearic acid in the presence of cholesterol esterase. No enzymic ester synthesis takes place with coprosterol, epicholestanol, and epicoprosterol. II. Priestley

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

CA

11M

Stability of cholesterol in animal blood serum. S. L. Nedzvetskii (Med Inst., Yaroslavl) *Biokhimiya* 12, 116-20(1947). Whatever the etiology of arteriosclerosis, there is no doubt that the change in the stability of the blood cholesterol is one of the factors playing a role in the origin and development of this disease. The stability is not due to a union of cholesterol with the blood proteins, as had been assumed by some investigators. The blood proteins of dog blood serum can be completely ppted with Ag_2SO_4 without removing most of the cholesterol. The stability of cholesterol in blood serum (detd. by protein ppts. with Ag_2SO_4) varies with different animals. It is more stable in dog blood serum and less stable in rabbit blood serum.

H. Priestley

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDEVETSKY, S. V. and HAUCHMAN, I. A. Influence of the colloidal state of cholesterol on its aqueous-colloid dispersion Biochimia, Moscow 1948, 13/3 (234-235)

It was previously shown that the oxidation of cholesterol in aqueous colloid dispersion by O_2 at 37-39° C. in the presence of a catalyst (palladium plus platinum) proceeds differently from the oxidation of cholesterol in true (molecular) solution by means of chemical oxidizing agents. In the latter case the double bond and/or the hydroxyl group is first oxidized, while in the catalytic oxidation only the carbon atoms (especially C_7) of the cholesterol nucleus are oxidized. Oxidation of cholesterol in true solution by H_2O_2 yields cholestantriol as the sole product. In aqueous colloid dispersion cholesterol is oxidised by H_2O_2 to give several products resembling those obtained by catalytic oxidation of colloidal cholesterol with O_2. It is believed that the difference in mode of oxidation is due solely to the different physico-chemical state of the cholesterol.

Cytronberg - Mexico City

SO: Physiology Biochemistry and Pharmacology. Section II, Vol. 2, No. 9.

Chair of Biol. Chem, Yaroslavl' Med. Inst.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

LEOLER, F.P.; NEDZVETSKIY, S.V.

Hypercholesterolemia in thyroidectomized dogs. Vop.med.khim. 3:143-147 '51. (MIRA 11:4)

1. Kafedra biokhimii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(CHOLESTEROL METABOLISM) (THYROID GLAND)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

MEDVETSKIY, S.V.; RATNITSKAYA, S.S.

Physico-chemical condition of cholesterol in blood serum. Biokhimiya '51, 16, 471-477. (MLRA 4:10)
(BA - XII My '53:676)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.; GRECHKA, F.P.; SHPATS, T.A.

Causes of hypercholesterolemia. Vop.med.khim. 4:133-138 '52. (MIRA 11:4)

1. Kafedra biokhimii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(CHLESTEROL METABOLISM) (ACETONEMIA)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.

Chemical Abs.
Vol. 48 No. 3
Feb. 10, 1954
Biological Chemistry

Sterols of the animal organism: 7-hydroxy-α-cholesterol. S. V. Nedzvetskii, A. N. Panyukov, and T. A. Shpats (Leningrad Med. Inst., Chair Biol. Chem.). *Biokhimiya* 18, 316 18(1953).—Dogs received 0.5 g. of cholesterol and g. of fat per kg. body wt. for 10–12 days and were then sacrificed. The blood was dild. with 4 vols. of acetone and the minced organs were treated similarly with acetone. Repeated extns. with acetone were made and the acetone fractions were combined, evapd. residue extd. with ether, filtered and 20–30 ml. EtOH added to the filtrate. The ether was evapd. and the alc. residue washed with alc. into a conical tube and let stand overnight. A ppt. formed consisting of fat, cholesterol, and its esters. The supernatant contg. the same as well as other sterols, was sepd. from the ppt., the alc. evapd., and a chromatographic adsorption on Al oxide was made of a soln. of the residue. 7-Hydroxy-α-cholesterol is formed in the animal organism. It was isolated from brain, lungs, and the blood and none from the liver and muscle.

B. S. Levine

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.

USSR

[redacted]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.; MIKHAYLOVA, T.A.

Formation of oxycholesterols in fasting rabbits. Vop.med.khim. 5 no.4:276-278 Jl-Ag '59. (MIRA 12:12)

1. Kafedra biologicheskoy khimii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(CHOLESTEROL metab.)
(STARVATION exper.)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.; LIELUP, T.B.

Chick embryo sterols; 7-α-hydroxycholesterol and effect of the incubation time on its amount in the egg. Biokhimiia 24 no.2:349-352 Mr-Ap '59. (MIRA 12:7)

1. Chair of Biological Chemistry, the Sanitary-Hygienic Medical Institute, Leningrad.

(CHOLESTEROL,
7-(α)-hydroxycholesterol in chick embryo (Rus))
(OVUM,
same)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.; KUZ'MINA, S.N.

Structure of lipoproteins of the gray matter of animal brain. Biokhimiia 25 no.2:251-254 Mr-Ap '60. (MIRA 14:5)

1. Kafedra biologicheskoy khimii Sanitarno-gigiyenicheskogo meditsinskogo instituta, Leningrad.
(LIPOPROTEINS) (BRAIN)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEDZVETSKIY, S.V.

Nutritional hypercholesteremia in dogs. Vop. pit. 22 no.2: 55-57 Mr-Ap '63. (MIRA 17:2)

1. Iz kafedry biologicheskoy khimii (zav. - prof. S.V. Nedzvetskiy) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

MEDVETSKIY, V.V.

Maintaining the original draft of Diesel boats of the "Bol'shaia Volga" type with damaged bottom seams. Rech.transp. 13 no.1:39-40 Ja-F '53. (MLRA 6:11)

(Ships--Maintenance and repair)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"EDZVETSKIY, Yu. E.,

Yu. E. Yedzvetskiy, in his paper "Use of Centimeter Waves for Controlling Technological Processes", says that for remote control of a number of technological processes of certain physical parameters (as for instance: humidity, temperature, concentration of solutions, etc.) of conducting materials. He described a setup for controlling the humidity of wooden parts moving in a stream.

Presented at the Eleventh Scientific and Technical Session of the Leningrad Section NTORiE (Scientific and Technical Society for Radio and Electricity) imeni A. S. Popov, dedicated to the celebration of Radio Day, Leningrad, 1?-24 Apr 56.

(Radiotekhnika, No. 7, 1956)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEDZVETSKIY, Ya. E.

25(1)

AUTHOR: Vologdin, V.V. SOV 142-2-1-20/22

TITLE: A Conference on Electrical Food Processing Methods (Konferentsiya po elektricheskim metodam obrabotki pishchevykh produktov)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Radiotekhnika, 1959, Vol 2, Nr 1, pp 120-121 (USSR)

ABSTRACT: A conference on electrical food processing methods was held in Kiyev from 7 to 13 October 1958. The conference was organized by the Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti USSR (Kiyev Institute of Technology of the Food Industry UkrSSR). The conference comprised a wide range of problems and the novelty of the subjects caused great interest of workers from scientific institutions and industrial installations. The 350 delegates came from 60 towns of the USSR; 119 participants were sent to the conference from vuzes and scientific research institutes. At the conference, more than 50 reports were delivered and discussed, dealing with problems of applying electrostatic fields, direct current, low frequency current, high frequency current, infrared and ultraviolet radiation, X-ray and gamma radiation for processing food products. Also statements were made concerning the application of ultrasound oscillations in the food industry. Considerable attention was devoted to the application of TVCh (tok vysokoy chastoty - high frequency current) for technological purposes, particularly for processing non-conductive materials in an electric high frequency field. More than 20 reports and statements were delivered on this subject, dealing with theoretical and technological problems. For example: "The Electrical Properties of Some Food Products in High Frequency Field" by S.N. Andreyev, V.N. Kudin, A. V. Netushil (Moscow); "Active Losses in Food Products" by I.S. Pavlov (Kiyev); "The Electrical Properties of Milk" by Yu.K. Nedzvetskiy (Leningrad); "A Continuous Automatic High Frequency Sterilizer for the Sterilization of Fruit Conserves on a Conveyer" by S.D. Chernyayev (Moscow); "The Defrosting of Spiced Sprats by High Frequency Currents" by V.N. Podsevalov (Astrakhan); "The High Frequency Boiling of Electrically Smoked Fish" by A.I. and M.I. Kalitina and I.S. Pavlov (Kiyev); "The Technological Peculiarities of Processing Sausage Products by High Frequency Currents" by E. S. Shishkina (Moscow). At the conference, the following reports were heard with great interest and were discussed in detail: "The Application of Infrared Heating for Drying of Confectionery Products" by N.B. Belostotskiy (RIGA); "The Technological Principles of the Hot Electrical Fish Smoking Process" by A.I. and M.I. Kalitina and Yu.I. Saunov (Kiyev); "A New Fish Processing Technology and the Processing of Sardines and Sprats With the Application of Infrared Light and Smoking Liquid" by I.I. Lapshin (Moscow); "The VNIIKOP Experimental Equipment for Ionization Processing of Food Products" by S.D. Chernyayev (Moscow); and "An Investigation of the Possible Application of Radioactive Radiation for Preserving the Albumin as Residue of Integumentary Whale Fat" by S.I. Tsypkin (Leningrad).

Card 1/5

Card 2/5

Card 3/5

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina) (Leningrad Institute of Electrical Engineering imeni V.I. Ul'yanov (Lenin))

SUBMITTED: November 3, 1958

Card 5/5

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEDZVETSKIY, Yu.E., inzh.; DOBROVOLSKAYA, V.I.

Increasing zone stability in vertical smelting without a [illegible].
Trudy NIITVCH no.1/21188-190 '60 [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/137/62/000/003/075/191
A006/A101

AUTHOR: Nedzvetskiy, Yu.E.

TITLE: Methods of increasing the rod section in zonal melting without crucibles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 48, abstract 3[illegible] (V sb. "Prom. primeneniye tokov vysokoy chastoty v elektrotermii", Moscow-Leningrad, Mashgiz, 1961, 118 - 123)

TEXT: The author analyzes methods of increasing the rod section in zonal melting without crucibles, with vertical and horizontal arrangement of the rods. It is noted that during local cooling of the solid portions of a vertically arranged rod near the melt, the rod diameter can be increased. However, due to conicity of the crystallization fronts, the inner portion of the molten zone and the rod should be additionally heated. This can be brought about with the aid of special heating devices, passing electric current through the rod. The aforementioned methods can be practically applied during melting in any gas atmosphere, necessary for cooling. Moreover, a force effect of the electromagnetic field on the melt can be achieved; this makes it possible to increase the zone height

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/137/62 [illegible]
A006/A101

Methods of increasing the rod section in ....

and, consequently, the rod diameter. The molten zone is then [illegible] smelting inductor, underneath which a so-called supporting inductor is [illegible]. The feed frequency of the supporting inductor is selected to assure a [illegible] force effect on the melt at a minimum power of heat liberated in the [illegible] in the solid portion of the rod. Calculations and experiments show that [illegible] majority of metals and semiconductors the optimum frequencies are [illegible] sonic and ultrasonic ranges at a rod diameter of several centimeters. [illegible] zontal arrangement of the rod, d-c is passed through the rod [illegible] equilibrium of the molten material, and the zone is placed into a [illegible] netic field, whose interaction with the current produces the necessary [illegible] supporting force. The section can be increased and round rods in horizontal zonal melting can also be obtained with the aid of an electromagnetic [illegible], produced with supporting inductors which are arranged at the zone [illegible].

B. Turovskiy

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

S/137/62/000/004/050/201
A006/A101

AUTHORS: Ratnikov, D.G.; Dourovol'skaya, V.I.; Medzvetskiy, Yu.E.

TITLE: Heat problems in zonal melting without crucibles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 46 - 47, abstract 4G315 (V sb. "Prom. primeneniye tokov vysokoy chastoty v elektrotermii", Moscow-Leningrad, Mashgiz, 1961, 124 - 129)

TEXT: The authors calculated the power necessary to maintain the molten zone, assuming that this power is dissipated from the surface of the melt and the sections of the solid rod located near the zone. The total power is equal to

$$P = \pi D \left(\sigma \varepsilon T_0^4 + \sqrt{2 v \lambda D T_0^5 / 5} \right). \quad (1)$$

where D is the rod diameter, T is the absolute surface temperature, ε is the emissivity of the material, λ is the coefficient of heat conductivity. The superposition of displacement rate of the zone, v, entails some modification of the basic equation. For zonal melting of Si with D = 3 cm, a calculation is presented which shows that in this case additional power ΔP is consumed. At v = 1, 3

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

S/137/62/000/004/050/201
A006/A101

Heat problems in zonal melting without crucibles

and 10 mm/min, ΔP is respectively: 3.1, 26.2 and 212 watt. The total power calculated by formula (1) for this case is 1,900 watt. Temperature distribution in the rod is calculated and experimental results on the effect of various factors upon the crystallization front in zonal melting are given. It is shown that at a zone height which is approximately equal to the diameter of the Si rod, melting proceeds at a plane crystallization front. The height of the zone can be reduced, with simultaneous maintaining of the plane front, by intensified cooling of the rod. It was revealed by experiments that in the case of a narrow induction coil a lesser zone height than in the case of a high induction coil is required for through-fusion of the ingot or the production of a plane crystallization front. It is expedient to use narrow induction coils and to operate with least permissible gaps.

S. Gorovin

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

L 41315-65 EWT(m)/EWP(t)/EWP(b) JD

ACCESSION NR: AT4047594 S/3117/60/000/01-/0188/0190

14
B+1

AUTHOR: Nedzvetskiy, Yu. E. (Engineer); Dobrovol'skaya, V. I.

TITLE: Increasing the stability of the zone during vertical crucibleless melting

SOURCE: Leningrad. Nauchno-issledovatel'skiy institut tokov vy sokoy chastoty. Trudy, no. 1-2, 1960, 188-190

TOPIC TAGS: crucibleless melting, induction heating, silicon melting, vertical melting, zone melting, zone stability, semiconductor alloy

ABSTRACT: The stability of the melted zone during vertical crucibleless melting determines the critical height limit of the melt zone. To increase the stability, the height should be lowered, but only to a certain value which still ensures thorough heating of the melt. If the diameter of the ingot is increased, then the zone height must also be increased. It is seldom possible to increase the ingot diameter above 1.5 cm. In order to increase the height of the zone it is necessary to create conditions in which the internal hydrostatic pressure at the surface counteracts the external pressure. The projection of the distribution of this hydrostatic pressure along the vertical axis for a cylindrical zone takes the shape of

Card 1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

L 41315-65
ACCESSION NR: AT4047594

a triangle. On the basis of publications by W. Heywang, L. C. Okress, D. M. Wroughton, G. Comenetz, P. H. Brace and I. C. R. Kelly, the authors conclude that induction systems may be used to create the required pressure. Tests have shown that this increases the stability of the zone if the projection of the square of the magnetic field intensity on the zone surface approaches the required triangle. The electromagnetic pressure was created by means of a coil placed below the melt zone created by a heating element. The generator frequency was chosen to produce the maximum mechanical action on the melt zone. This optimal frequency ensured the highest stability at the lowest generator power. Most of the tests were carried out during the melting of silicon in a vacuum. The melt zone was created by the induction method using a generator with a frequency of 5 megacycles per second and a power of 8 kW. The melt was intensively mixed by the vertical component of the induction force. The described method for improving the stability of the crucibleless melt zone may be used in industry and opens new fields for experimentation. In particular, it may be assumed that this method may be used for obtaining monocrystalline ingots of semiconductor alloys with a uniform distribution of components. Orig. art. has: 2 figures.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

L 41315-65

ACCESSION NR: AT4047594

ASSOCIATION: Nauchno-issledovatel'skiy institut tokov vysokoy chastoty, Leningrad (Scientific Research Institute of High-Frequency Currents)

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 001 OTHER: 002

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEEDHAM, D.M.

Mechanism of uterine muscle contraction. Studii cerc biochimie 6 no.4:459-466 '63.

1. Departamentul de Biochimie, Universitatea din Cambridge, Anglia.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEEME, T.

Experiences in using chemical weed control. p. 18

SOTSIALISTLIK POLLUMAJANDUS. POLLUMAJANDUS MINISTEERIUM.
Tallin, Hungary. No. 1, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11
November 1959.

Uncl.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

[illegible]RT, [illegible].

[illegible]RICULTURE

Period[illegible]al: [illegible] Vol. [illegible], no. 2, Jan. 1959.

[illegible]RT, [illegible]. [illegible]rtunities for cl[illegible]tivat[illegible]n s[illegible]cal[illegible]e, Polygonum sachalinense F. Schm. as a s[illegible] [illegible]ant. [illegible]

Monthly List of East European Accessions (EEAI) [illegible], Vol. [illegible], no. [illegible], May 1959, Unclass.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFAGIN, Aleksandr Fedorovich; LYSYY, A., red.; GOLICHENKOVA, A., tekhn. red.

[Strength of the collective; a trade-union groups effort to increase labor productivity] Sila kollektiva; profgruppa v bor'be sa povyshenie proizvoditel'nosti truda. Moskva, Profizdat, 1955. 29 p. (MIRA 16:8)
(Ural Mountain region--Electric equipment industry--Labor productivity)
(Trade unions)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

[illegible], Yu.[illegible]., [illegible]; [illegible]EDC[illegible]KO, P.A., [illegible]; [illegible] [illegible]NYA [illegible], [illegible]., [illegible]zh.

Wall panels from porous foamed [illegible] concrete. Str. i. mat. 10 no.9:13 S '64 ([illegible])

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

[redacted]EDIEV, P.

Lenin's idea is being fulfilled. Nauka i tekh mladezh 15 no.5: 9 My'63

1. Zamestnik zavezhdasht otdela za elektricheska energiia pri Sekretariata na SIV.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

ACC NR: AT6005058 (N) SOURCE CODE: UR/0000/65/000/000/0100/0117

AUTHOR: Mikhelev, I. P.; Nefedkina, T. V.; Trigubov, A. V.

ORG: none

TITLE: Studying intrusives by the reflected-wave method in the Rudnyy Altay region

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki. Metodika seysmorazvedki (Methods of seismic prospecting). Moscow, Izd-vo Nauka, 1965, 100-117

TOPIC TAGS: seismology, seismic prospecting, reflected wave, seismic wave, seismic profile, reflected wave, seismic array, STRATIGRAPHY, REFLECTED SHOCK WAVE

ABSTRACT: This article deals with the results of seismic investigations of the Tushkanikh polymetallic ore deposits in the Zmeinogorsk region of the Rudnyy Altay carried out in 1961—1962 by the Institute of Geology and Geophysics of the Siberian Branch of the Academy of Sciences USSR. The possibilities of using the method of reflected waves (MOV) in studying the deep-seated (to a depth of 500 m) structure of metamorphic and intrusive rock complexes are discussed. The method of reflected waves was supplemented in the field by the regulated-direction method (RNP). The observation system was mainly a three-point set-up with shots at 400-m intervals. SS-24P seismic stations and ARNP apparatus

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

ACC NR: AT6005058

were used. Working filtrations were 45—90 and 30—65. SPED-56 seismographs (9 on a 40-m base) were employed. Charges were exploded in holes 12—24 m deep. When the bedrock was close to the surface, the holes were drilled to the top of the bedrock (8—10 m). The sizes of charges varied, up to 15—20 kg for recording waves over long time periods. Charges of about 100 kg were detonated in water bodies. A profile was constructed on the basis of RNP data for depths down to 10 km. Although the present procedures for observing and interpreting profiles are affected by lateral waves and noise, and the plotting of levels on the profile is not sufficiently accurate, the basic outlines of the depth profile are quite clear. Geological interpretation based on kinematic and dynamic (damping) wave parameters, as well as the use of data obtained by other geophysical methods, is attempted. Orig. art. has: 8 figures, 2 tables, and 4 formulas. [EO]

SUB CODE: 08/ SUBM DATE: 30Sep65/ ORIG REF: 009/ OTH REF: -002

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

L 44394-66 EWT(1) GD/GW

ACC NR: AT6005063 (N) SOURCE CODE: UR/0000/65/000/000/0164/0189

AUTHOR: Gol'din, S. V.; Nefedkina, T. V.

ORG: none

37

TITLE: Grouping and the controlled direction method as a part of an optimal receiver with suppression of correlated noise

B+1

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki. Metodika seysmorazvedki (Methods of seismic prospecting). Moscow, Izd-vo Nauka, 1965, 164-189

TOPIC TAGS: seismic signal spectrum, signal to noise ratio, seismic signal, reception, seismic wave summing, seismic noise correlation, seismograph array, seismograph [redacted]

ABSTRACT: F. M. Gol'tsman and his colleagues have shown that the controlled-direction method (mode) (RNP) and, the grouping of waves with the apparent velocity V = ∞ becomes a part of an optimal receiver when the signal parameters are accurately known and noise is not correlated along the profile. The present article shows that this result is also approximately valid in the case of correlated noise when a wave is received in such a way that the direction of its synphasal axis coincides with the direction of maximum correlation of noise (although wave

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

L 44394-66

ACC NR: AT6005063

detection is poorest in this direction). It is also shown that the assumption of an accurately known waveform (with constancy of this waveform along the profile) is not necessary. In a number of cases, this result was quite accurate. Noise of the type considered in this article can occur when many waves with different apparent velocities, but averaging about the same as the apparent velocity of the useful waves, are superposed. If the condition of matching of the maximum correlation of the noise and the signal is not satisfied, the optimal operations on the input functions should have an entirely different construction. The results obtained in this work are generally valid when the grouping method and the controlled-direction method are combined under conditions that are not optimal for them, since summing the vibrations in the direction of the synphasal axis, as calculated by the formulas for the noise correlation function along this axis, has a higher signal-to-noise advantage than any other summing in this direction. In this sense, the combination of grouping and the controlled-direction method considered here can be called optional for any direction of maximum noise correlation. Some examples of calculations of parameters of optimal groups are given in the original article, and comparisons are made of these groups with homogeneous groups. Some new results are given for practical correlation functions. Group parameters are calculated without resorting to frequency representations. A relationship is established between grouping with suppression of regular noise and irregular noise. Orig. art has: 68 formulas, 5 figures, and 1 table. [SO]

SUB CODE: 08/ SUBM DATE: 30Sep65/ ORIG REF: 005

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

15(0), 15(2)

AUTHORS: Nikulin, V. M., Nefedkina, Ye. B. SOV/131-59-1-2/12

TITLE: For Further Technical Progress
(Za dal'neyshiy tekhnicheskiy progress)

PERIODICAL: Ogneupory, 1959, Nr 1, pp 11 - 15 (USSR)

ABSTRACT: The total production of the works for refractory materials of the Mosoblsovnarkhoz in 1957 was 1.7 times greater than in 1950. The principal sources of the increase in production were: better utilization of equipment capacities, the elimination of bottlenecks, introduction of up-to-date experience, perfection of manufacturing processes, introduction of new modern refractory types of products. In the coming 7 years, it is intended to mechanize individual working operations and works departments; special attention will be paid to the questions of mechanizing the work of loading and unloading. The works in the Moscow area are getting substantial help from the scientific research institutes and the Khimiko-tekhnologicheskiy institut imeni Mendeleyeva (Chemical-Technological Institute imeni Mendeleyev). The Podol'skiy, Vnukovskiy, Snigirevskiy and

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

For Further Technical Progress SOV/131-59-1-2/12

Domodedovskiy works have extended the assortment of their products and - within the 7-year scheme - they will be modernized and will partly be automatically controlled with a view of increasing production figures considerably.

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

TOMASH, K.K.; DAVYDOV, I.P.; NEFEDKINA, Ye.B.

Exchange of advanced experience in the production of casting equipment. Ogneupory 29 no.12:575-577 '64. (MIRA 18:1)

1. Zaporozhskiy ogneuporniy zavod (for Tomash, Davydov).
2. Gosmetallurgkomitet (for Nefedkina).

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

ZOTOVA, YE. V., Engineer; NEVEDOV, A. A., Engineer

"The Selection of Steel and the Heat Treatment Condition for Blades Cutting Wire up to 65 Millimeters in Diameter", Stanki I Instrument, 17, Nos 2-3, 1946

BR-52059019

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEFEDOV, A.A

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Q

9-162. Methods of Mechanical Testing for Special Saw Steels. E V Zotova and A A Nefedov Factory Laboratory (U.S.S.R.), v 13, June 1947, p 737-740 (In Russian.)

Mechanical properties (tensile strength, Rockwell hardness, and plasticity) do not fully characterize these steels. More reliable results are obtained by less severe methods, especially by torsion testing. Influence of tempering temperature on mechanical properties of a series of saw steels.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

137-58-1-606

Translation from Referativnyy zhurnal Metallurgiya, 1958, Nr 1, p 95 (USSR)

AUTHOR Nefedov, A A.

TITLE Experience in the Operation of a Section Shop (Opyt raboty sortoprokatnogo tsekha)

PERIODICAL Tr. Nauchno-tekhn o-va chernoy Metallurgii, 1956, Vol 10, pp 420-423

ABSTRACT The operation of the section shop at the Yenakiyevo iron and steel mill, having two merchant mills, is described One is a 360 mill in two lines, the other a 280 mill in three lines The most important measures taken in the shop to improve the productivity of the mills are 1) improvement of the soaking of billets by intensifying bottom heating, 2) reduction in the cross section of the blanks from 170x170-190x190 to 150x150-170x170 mm, 3) improved grooving, which made it possible to reduce the number of passes on the reducing stands, and introduction of universal grooving for the purpose of rolling round sections, 4) installation of power-driven rack-type cooling beds with flying shears and a cold cutting press As a result of these measures, the productivity of the mills in 1954 rose more than 40

Card1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

137-58-1-606

Experience in the Operation of a Section Shop

percent over the 1950 level See RzhMet, 1957, Nr 12, 22805

S G

1. Rolling mills—Operation

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A.

5

1231* (Russian) An Experiment in the Use of Mechanized Cooling Beds in Structural Mills. Opyt primeneniia mekhanizirovannykh khodil'nikov na sortoprokatnykh stanakh. I. A. Lipovetskii, A. A. Nefedov, P. M. Gratsershtein, D. P. Lobkovskii, and V. A. Landa. Stal', v. 16, no. 9, Sept. 1956, p. 798-802.

Improvements and design modifications of standard mechanized cooling beds operating in two structural mills.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A., kandidat tekhnicheskikh nauk; SHCHERBINA, G.Z., inzhener.

Increasing the productivity of thin sheet mills. Metallurg 2 no.6: 23-25 Je '57. (MLRA 10:6)

1. Ural'skiy institut chernykh metallov (for Nefedov). 2. Tsentral'naya zavodskaya laboratoriya Dnepropetrovskogo metallurgicheskogo zavoda (for Shcherbina).

(Rolling (Metalwork))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

137-1958-1-585

Translation from Referativnyy zhurnal Metallurgiya 1958 N p 92 (USSR)

AUTHORS Chekmarev A P Nefedov A A

TITLE Forward Slip in Rolling With Rolls of Unequal Diameter Opere-zhenive pri prokatke na valkakh neravnogo diametra

PERIODICAL Tr In-ta chernov metallurgii AN UkSSR 1957, Vol 11 pp 105-107

ABSTRACT An investigation of forward slip FS in the rolling of a Pb strip of 10 15 and 20 mm gage at 35 rpm on plain steel rolls (R) differing in diameter by 5, 8 12 25 and 35 mm shows that FS is always greater on the side facing the smaller R than on that facing the larger roll The regularity governing the change in FS relative to thickness reduction is quite complex When the reduction is small or moderate, there is a simultaneous increase in FS on the sides facing both R's When the reduction is greater forward slip on the side of the R of greater diameter is reduced whereas on the side of the smaller R it increases sharply up to a given value, after which first a diminution and then a renewed increase is observed At the same time FS begins to increase on the side facing the R of larger diameter An increase in the difference between the R s leads to a significant increase in the difference in FS V D

Card 1/1

1. Lead—Processing 2. Rolling mills—Operation 3. Lead—Deformation—Effects of rolling

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

Nefedov, A.A.

130-3-10/21

AUTHORS: Nefedov, A. A., Candidate of Technical Sciences and Ilyukovich, B. M., Senior Calibrator of Chusovoy Metallurgical Works.

TITLE: Rational roll-pass design for rolling hexagonal steel. (Ratsional'naya kalibrovka dlya pro atki shestigrannoy stali).

PERIODICAL: Metallurg, 1958, No.3, pp.21-24 (USSR).

ABSTRACT: The authors show (Fig.1) four arrangements for rolling hexagonal steel for nuts and bolts and discuss their features. They favour an arrangement requiring only two special passes which secures high mill productivity with constancy of dimensions and sharpness of corners of the product and point out that finishing pass dimensions must give product dimensions within ГОСТ 2879-51. The authors go on to describe a new design of finishing pass in which free movement of the side faces is permitted and enumerate its advantages. They give values for the desirable concavity of the pre-finishing pass for 10 - 42 мм hexagonal steel, based on experience at the Chusovskiy Metallurgical Works, and show that for the new system greater concavity is required than recommended by the All-Union conference on roll-pass design. After mentioning the roughing systems used at other works, the

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

Ration[illegible] roll-p[illegible]

[illegible]

[illegible] : Ural'skiy institut metallov (Ural Institute of Metals) and Chusovskiy metallurgicheskiy zavod (Chusovoy Metallurgical Works).

AVAIL[illegible] : Library of Congress.

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/133-58-6-12/33

AUTHOR: Soroko, L.N., Nefedov, A.A., Yershov, V.N., Masyukov, S.N. (Deceased), Frolov, N.P. and Braunshteyn, R.A.

TITLE: Rolling of Lightened Nr 19 Beam from Low Alloy Steel 09G2D (Prokatka oblegchennoy balki No 19 iz nizkolegirovannoy stali 09G2D)

PERIODICAL: Stal', 1958, Nr 6, pp 532 - 537 (USSR)

ABSTRACT: An experimental rolling of a lightened Nr 19 beam from low-alloy steel 09G2D (composition %: C $\leq$ 0.12; Mn 1.4-1.7; Si 0.2-0.4; Cu 0.22-0.44; Cr $\leq$ 0.30; Ni 0.01-0.03; S and P $\leq$ 0.04) is described. Lightened Nr 19 beam (Figure 1) (TuTs 08-124-57) weighs 19.5% less per m than normal Nr 19 beam (GOST-5267-50) which is usually rolled from steel St3. For experimental rolling, four heats of steel 09G2D were made. Rolling was done on the mill 500 from shaped semis (Figure 2). The calibration of rolls is shown in Figure 3. The metal was heated from cold charging to an average temperature of 1 170 °C. The decrease of temperature in the individual passes - Figure 4. The final temperature of the neck of the beam was 60 °C lower than that of normal beam Frequency distribution of deviations of dimensions from the nominal ones - Figure 5. The comparison of the loads on the individual stands during rolling of normal and lightened Nr 19

Card1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/137-59-[illegible]-[illegible]/33

Rolling of Lightened Nr 19 Beam from Low Alloy Steel 09G2D

beams together with the maximum permissible loads and rpm of motors - Table 1. The comparison of the mill throughput per hour during rolling normal and lightened Nr 19 beams - Table 2. Mechanical properties of specimens cut from various places of the beam - Tables 3 and 4. It is concluded that: 1) rolling of light Nr 19 beam on the mill 500 is possible with the existing equipment; 2) dimensions of the profile obtained were situated mainly in the range of minus tolerances; 3) the temperature of the neck at the end of rolling was 790 °C, i.e. 60 °C below the temperature obtained during rolling normal beam Nr 19; 4) load on motors of roughing stands was 22-23% higher than during rolling of normal Nr 19 beam. Loads on the finishing stand either do not exceed or only slightly exceed permissible ones; 5) specific power consumption was 37% higher than during rolling normal Nr 19 beam from St 3 steel; 6) the output of the mill during rolling of the light beam decreases by 17%. It is expected that with mastering of the process, this decrease can be reduced to [illegible]; 7) the chemical composition and mechanical properties of 09G2D steel

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/133-58-6-18/33

Rolling of Lightened Nr 19 Beam from Low Alloy Steel 09G2D

satisfy the requirements of standard CHMTU-5688-56 for low-alloy steels. The following engineers participated in the work: N.I. Khoroshev, I.M. Sharapov and F.A. Firsakov. There are 5 figures and 4 tables.

ASSOCIATIONS: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine) and Ural'skiy institut chernykh metallov (Urals Institute of Ferrous Metallurgy)

Card 3/3 1 Beams--Production 2 Rolling mills--Applications

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

SOV/133-58-11-14/2

AUTHORS: Rastorguyev, A.A. Candidate of Technical Sciences, Nefedov, A.A., Borzova P.I., Belyakov, A.I. and Simakova, M.S., Engineers

TITLE: Low-texture Cold-rolled Electrotechnical Steel (Maloteksturovannaya kholodnokatanaya elektrotekhnicheskaya stal')

PERIODICAL: Stal', 1958, Nr 11, pp 1023 - 1029 (USSR)

ABSTRACT: According to new standards, anisotropy in respect of magnetic induction along and across sheets of low-alloy steel (E1100, E1200, E1300) should not exceed 1 300 Gauss and for higher alloy steel (E3100 and E3200) - 1 600 Gauss. Anisotropy of various types of cold-rolled transformer steel reached 3 000 - 5 000 Gauss. The problem of the formation of texture in this steel was investigated by TsNIIChM (Refs 1, 2) and the results then obtained were used as a basis of the present investigation of the production of low-texture steel carried out on the Novosibirsk Works. It was found that low-alloy silicon steel (about 1.5% Si) which passed cold rolling by the usual technology (with large reductions) and the highest recrystallisation annealing (at 1 000 °C) is characterised by a predominant orientation of crystallites with the edge

Card1/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/133-[illegible]/[illegible]

Low-texture Cold-rolled Electrotechnical Steel

of the cube along the direction of rolling. Low-alloy two-phase silicon steel with a comparatively small anisotropy can be obtained: a) by annealing at a comparatively low temperature (850 °C) during which neither a considerable crystal growth nor preferential orientation of crystals takes place; and b) by annealing above the critical temperature which leads to phase recrystallisation with the orientation of grains in various directions; whereupon an increase of the annealing temperature to 1 100 - 1 150 °C promotes an increase in the size of crystals and a decrease in specific losses. The ability of steel to the formation of texture depends on the content of silicon. At a constant degree of reduction in the last cold rolling stage, steel with a higher silicon content has a more sharply pronounced texture of recrystallisation than steel with a lower silicon content. Higher alloyed single-phase steel with a comparatively low anisotropy can be obtained by applying before the final high-temperature

Card2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

Low-texture Cold-rolled Electrotechnical Steel SOV/133-58-11-19/25

annealing a small reduction (e.g. by reducing from a thickness of 0.54 mm to 0.50 mm). There are 4 figures, 6 tables and 4 references, 3 of which are Soviet and 1 English.

ASSOCIATIONS: TsNIIChM and Novosibirskiy metallurgicheskiy zavod (Novosibirsk Metallurgical Works)

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/133-58-12-14/19

AUTHORS: Belyakov, A.I., Nefedov, A.A. and Simakova, M.S.

TITLE: Cold Rolled Electrotechnical Steel 1mm Thick (Kholodnokatanaya elektrotekhnicheskaya stal' tolshchinoy 1.0 mm)

PERIODICAL: Stal', 1958, Nr 12, pp 1128-1129 (USSR)

ABSTRACT: The production of cold rolled steel 1mm thick, containing 3% of silicon was tested under laboratory conditions in TsNIIChM and under works conditions in the Novosibirsk Works. The process was based on that of producing E310-E330 steels with some decrease in the degree of reduction during the first and second cold rolling. The main features of the technology are: a) hot rolling of slabs 150 x 620 x 2600 mm into strip 2.5 x 620 mm; b) decarburising annealing of coiled strip in electric furnaces at 830x800°C; c) pickling in an aqueous solution of sulphuric acid; d) cold rolling from 2.5 mm to 1 mm; e) cutting of coils into sheets 1.0x600x1500mm; f) covering with talc; g) final annealing of sheets in vacuo at 850°C. Electromagnetic properties of sheets

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

Cold Rolled Electrotechnical Steel 1mm Thick SOV/133-58-12-14/19

annealed at 850 - 1150°C are shown in the Table. Steel annealed at 850°C is practically isotropic with satisfactory electromagnetic properties. On annealing at higher temperatures anisotropy appears.

There are: 1 figure and 2 tables

ASSOCIATION: Novosibirskiy metallurgicheskiy zavod i TsNIIChM (Novosibirsk . Metallurgical Works and TsNIIChM)

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A. A.

AUTHORS: Belyakov, A.I. and Nefedov, A.A. 153-58-3-31/39

TITLE: Decarburisation During the Production of Cold Rolled Transformer Steel (Obezuglerozhivaniye pri proizvodstve kholodnokatanoy transformatornoy stali)

PERIODICAL: Stal', 1958, 18, Nr 3, p 248 (USSR)

ABSTRACT: The decarburisation of transformer steel (improving its magnetic properties) at an intermediate manufacturing stage at a strip thickness of 2.5 mm, during annealing in vacuo-furnaces of the Novosibirsk Works with a residual pressure of 15 - 20 mmHg, as well as the usual annealing in electric furnaces operating without a protective atmosphere and with a protecting paraffin oil gas (the composition given) was studied. Chemical composition of heats used for the investigation - Table 1; the influence of atmosphere on decarburisation of transformer strip 2.5 mm thick during annealing - Table 2. Annealing of coiled transformer steel in cap furnaces without a protective atmosphere leads to a considerable decarburisation of steel, and an even higher degree of decarburisation is obtained on annealing in vacuo furnaces without pickling. If the strip is pickled and then annealed in vacuo or in paraffin oil gas, then the decarburisation is insignificant or totally absent. The above indicated the

Card1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

Decarburisation During the Production of Cold Rolled Transformer Steel 123-58-3-20/29

importance of scale in the process of decarburisation. It is concluded that annealing of coiled transformer steel strip 2.5 mm thick should be carried out in furnaces without a protective atmosphere or in vacuo whereupon the metal should not be pickled before annealing. There are 2 tables.

ASSOCIATION: Novosibirskiy metallurgicheskiy zavod (Novosibirsk Metallurgical Works) and TsNIIChM

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOROKO, L.N.; [redacted]SHOV, V.N.; MASYUKOV, S.N.[deceased]; FROLOV, N.P.; BARUSHTEYN, R.A.

Rolling light-weight girders No. 19 using low-alloy 09G2D steel[with summary in English]. Stal' 18 no. 6:532-537 Je '58. (MIRA 11:7)

1. Kuznetskiy metallurgicheskiy kombinat i Ural'skiy institut chernykh metallov.

(Rolling(Metalwork))
(Steel alloys)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/133-59-9-2../31

AUTHORS: Nefedov, A.A. and Borzova, P.I.

TITLE: Stainless Electrotechnical Steel Kh12Yu

PERIODICAL: Stal', 1959, Nr 9, pp 835-837 (USSR)

ABSTRACT: Properties of stainless steel Kh12Yu which does not corrode in air with tropical humidity and temperature, developed by the Central Scientific-Research Iron and Steel Institute, are described. Chemical composition of steel %: C $<$ 0.05, Mn $<$ 0.3, Si $<$ 0.5, P $<$ 0.03, S $<$ 0.03, Cr 11.0-13.0, Ni $<$ 0.3, Al 1.2-1.5. Steel belongs to the ferritic class. On smelting, attention should be paid to prevent any increase in the carbon content, as the latter forms with chromium structurally free carbides which deteriorates the magnetic and electrical properties of the steel. The steel can be easily hot and cold rolled. Cold rolling to 2.0, 0.5 and 0.1 mm can be done without an intermediate annealing. On testing for brittleness transverse and longitudinally cut specimens 0.5 and 0.1 mm thick withstood more than 50 bendings. Magnetic properties of specimens cut out along and transverse to the direction of rolling after vacuo annealing (10^{-2}) at 800°C and cooled with the furnace to 400°C at a rate of 50°/hr and

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SOV/133-59-9-22/31

Stainless Electrotechnical Steel Kh12Yu

then in a container in air - table; changes in the magnetic induction and magnetic permeability of the steel specimens 0.50 and 0.10 mm thick in weak, medium and strong fields - Fig 1, 2 and 3; the dependence of specific losses on magnetic induction - Fig 4. High corrosion resistance and satisfactory magnetic properties of the steel Kh12Yu make it suitable for the manufacture of equipment operating in tropical climates (for parts which cannot be covered with protective coatings). There are 4 figures and 1 table.

ASSOCIATION: TsNIIChM

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.; STMAKOVA, M.; BELIAKOV, A.

"Cold rolled 1.0 mm. electric steel. Tr. from the Russian.

Hutnik. Praha, Czechoslovakia. Vol. 9, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

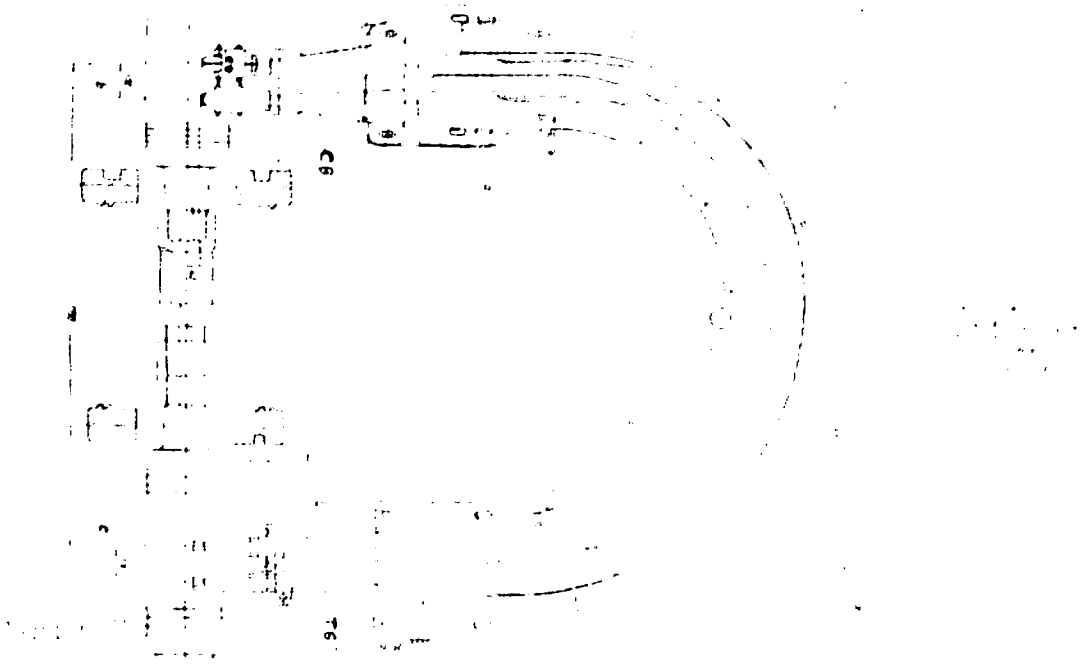
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A., inzh.

Cold-rolled electrical steel. Sbor. trud. TSNIICHM no.17:154-162 '60. (MIRA 13:10)

(Steel—Electric properties)
(Rolling (Metalwork))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

MINAYEVA, A.F., inzh.; NEFEDOV, A.A., kand.tekhn.nauk; TELUSHKIN, N.V., insh; TERMINOSYAN, N.S., insh.; KURILOV, A.I., insh.; SKACHKOV, L.N., insh.; POLYAKOV, M.M., insh; LIPOVETSKIY, I.A., insh.

Double-groove rolling with guides, of ribbed concrete reinforcing bars. Stal' 20 no.3:234-243 Mr '60. (MIRA 13:6)

1. Yenakiyevskiy metallurgicheskiy zavod i Dneprodzerzhinskiy vecherniy metallurgicheskiy institut.
(Rolling (Metalwork)) (Reinforcing bars)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A., inzh.; BORZOVA, P.I., insh.

Properties of cold rolled low-texturized electric engineering steel. Elektrichestvo no.2:85-87 F '61. (MIRA 14:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
(Electric engineering—Materials)
(Steel)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

BELYAKOV, A.I., inzh.; BORZOVA, P.I., inzh.; MEFEDOV, A.A., inzh.; SIMAKOVA, M.S., inzh.

Properties of lam. th[illegible] cold-[illegible] engineering steel. Elektrichestv[illegible] 3 [illegible] (MIRA 14:10)
(Steel)
(Electric engineering—Materials)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A.; BELYAKOV, A.I.; YAROSHENKO, Yu.N.; DUKHNOVA, Z.I.

High-alloy, cold rolled, electrical steel with low anisotropy.
Stal' 22 no.4:349-351 Ap '62. (MIRA 15:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Novosibirskiy metallurgicheskiy zavod.
(Sheet steel) (Anisotropy)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, Anatoliy Aleksandrovich; GETMANETS, Veniamin Vasil'yevich; BEZBORODOV, T.I., red.; LEVIT, Ye.I., red. izd-va; KARASEV, A.I., tekhn. red.

[Production of wire rod] Proizvodstvo katanki. Moskva, Metallurgizdat, 1963. 251 p. (MIRA 16:6)
(Rolling (Metalwork))
(Wire industry--Equipment and supplies)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A., inzh.; BELYAKOV, A.I., inzh.; YAROSHENKO, Yu.N., inzh.; DUKHNOVA, Z.I., inzh.

Cold-rolled 1 mm. thick electrical steel. Elektrichestvo no.1:75-77 Ja '63. (MIRA 16:2)
(Steel—Electric properties)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NIKOLAYEV, V.A.; CHERNETA, A.P.; NEFEDOV, A.A.

Regularities of advance changing in grooves for the rolling of angles. Izv. vys. ucheb. zav.; chern. met. 6 no.4:83-87 '63. (MIRA 16:5)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.
(Rolling (Metalwork))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A.; POKTOL'NIK, Yu.S.

Calculating for strength [illegible] with an annular recess. Izv. vys. ucheb. zav.; chern. met. [illegible] no.12:118-125 '63. (MIRA 17:1)

1. Dneprodzerzhinskiy [illegible] zavod-vtuz.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A., kand.tekhn.nauk; CHERNETA, A.P., insh.; DZIGVASHVILI, G.A., insh.; ZASLAVSKIY, B.M., insh.; KURDIANI, G.P., insh.

Internal ruptures in low-carbon steel pipe billets. Stal' 23 no.5:441-442 My '63. (MIRA 16:5)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz i Zakavkazskiy metallurgicheskiy zavod.
(Rolling (Metalwork)) (Steel ingots—Defects)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A., inzh.; BELYAKOV, A.I., inzh.; YAROSHENKO, Yu.N., inzh.; DUKHNOVA, Z.I., inzh.

Cold-rolled o.35 mm thick generator steel. Elektrichestvo no.8: 70-72 Ag '63. (MIRA 16:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Nefedov). 2. Novosibirskiy metallurgicheskiy zavod (for all except Nefedov).

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

BELYAKOV, A.I., inzh.; NEFEDOV, A.A., inzh.

Effect of residual stress trails on the electrical properties of steel. Elektrichestvo no.3:86-88 Mr '64. (MIRA 17:4)

1. Novosibirskiy metallurgicheskiy zavod (for Belyakov).
2. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Nefedov).

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEFEDOV, A.A.

Flexure of the emerging [illegible] diameter rolls. Izv. vys. uchen. [illegible] 75 '64.

1. Dneprodzerzhinskiy metallurg [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.A.; BREZHNEV, L.A.; SICHEVOY, A.P.; BYSTRIKOV, O.P.; MIL'MAN, Ye.A.

Studying the deformation of metal transverse helical rolling. Stal' 24 no.5:429-432 My '64. (MIRA 17:12)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz i Dneprovskiy metallurgicheskiy zavod im. Dzerzhinskogo.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEFEDOV, A.A.; [illegible] SHAFRAN, I.K.; [illegible], A.M.; [illegible]; [illegible]SHENK[illegible] A.[illegible]

Investigating [illegible] of but [illegible] shrinkage [illegible] of high [illegible] [illegible] [illegible] [illegible]

[illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

CHEKMAREV, Aleksandr Petrovich; LEBEDOV, Anatoliy Aleksandrovich; NIKOLAYEV, Viktor Aleksandrovich; FILIPPOV, I.N., kand. tekhn. nauk, otv. red.; VAYNBERG, D.A., red.

[Longitudinal rolling theory] Teoriia prodol'noi prokatki. Khar'kov, Izd-vo Khar'kovskogo univ., 1965. 211 p. (MIRA 18.8)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

BORISENKO, V.G., inzh.; NEFEDOV, A.A., inzh.; ZAYDMAN, I.D., inzh.

Low-carbon steel for magnetic circuits of d.c. machines. Elektrotekhnika 36 no.7:39-40 Jl '65. (MIRA 18:7)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A. D.

Collective Farms

Veterinary and zootechnical services at large collective farms of the Cherkass District of Kiev Province. Veterinariia 29 no.3:6-13 Mr '52.

9. Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.D.

USSR/Medicine - Veterinary

FD-1281

Card 1/1 : Pub 137-1/20

Author : *Nefedov, A. D.

Title : "Veterinary Science and Zootechny" pavilion of the All-Union Agricultural Exhibition

Periodical : Veterinariya, 8, 3-13, Aug 1954

Abstract : "Veterinary Science and Zootechny" pavilion is a separate exhibit of agricultural animals and farm products. The pavilion occupies five halls which form a semicircle in the central part of the All-Union Agricultural Exhibition. The displays aim to show superiority of the Soviet system over the pre-revolutionary, capitalist agriculture. The primary purpose of the exhibit is to spur the new campaign for rise in farm production which is one of the keystones in the Soviet Government's plan for higher living standard. Illustrations.

Institution : (*Director), "Veterinary Science and Zootechny" Pavilion

Submitted :

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.D.

What the "Veterinary and sootechny" pavilion will show at the All-Union Agricultural Exhibition in 1955. Veterinariia 32 no.4: 12-18 Ap '55. (MLRA 8:5)

1.Direktor pavil'ona "Veterinariya i sootekhniya".
(VETERINARY MEDICINE)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

KHFEDOV, A.

Achievements of livestock breeders from Vinnitsa. Veterinariia 32 no.6:15-23 Je '55. (MLRA 8:7)

1. Direktor pavil'ona "Veterinariya i zootekhniya" Vsesoyuznoy sel'skokhozyystvennoy vystavki.
(VINNITSA PROVINCE--STOCK AND STOCKBREEDING)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A .

Veterinary medicine at the Exhibit of Achievements of the Economy of the U.S.S.R. Veterinariia 36 no.7:10-13 Jl '59. (MIRA 12:10)

1. Glavnyy metodist po veterinarii otdela zhivotnovodstva Vystavki dostizheniy narodnogo khozyaystva Moskva, SSSR.
(Veterinary medicine--Exhibitions)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

[illegible], A.A.

Forward flow and the critical cross section angle during rolling in variable cross section rolls. Izv. vys. ucheb. zav.; chern. met. [illegible]. [illegible]

.. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.D.

Stockbreeding at the Exhibition of Achievements of the National Economy of the U.S.S.R. in 1964. Inform. biul. VDNKH no.2:1-2 F '64. (MIRA 17:8)

1. Glavnyy metodist ob"yedinennykh pavil'onov "Zhivotnovodstvo" na Vystavke dostizheniy narodnogo khozyaystva.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.F.; GOGOLEVA, A.I.

Intestinal obstruction following resection of the stomach. Khirurgiia no.7:85 Jl '55. (MLRA 8:12)

1. Iz gorodskoy bol'nitsy g. Chernyakhovska Kaliningradskoy oblasti.
(INTESTINES--OBSTRUCTION) (STOMACH--SURGERY)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

FEDOV, A.F.

Surgical technic in ruptures of the spleen. Khirurgiia 35 no.12:95-96 D '59. (MIRA 13:6)

1. Iz Chernyakhovskoy gorodskoy bol'nitsy (Kaliningradskaya oblast').
(SPLEEN wds. & inj.)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

RABUKHIN, A.Ye.; GOKHBERG, V.P.; DOBROKHOTOVA, M.N.; MOROZOVA, L.N.; NEFEDOV, A.F. (Moskva)

Effectiveness of prolonged drug therapy for patients with fresh forms of pulmonary tuberculosis. Klin.med. no.12:28-33 '61. (MIRA 15:9)

(TUBERCULOSIS)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEFEDOV AF

Eng/Miscellaneous - Theses

Card 1/1 Pub. 128 - 24/26

Authors : .....

Title : Abstract of theses

Periodical : Vest. mash. 2, 108-109, Feb 1954

Abstract : The following abstracts of theses are presented: Anson, P. I. - Experimental investigation of the strength of cylinder flange joints for high-pressure turbines; Sharin, Yu. S. - The investigation of certain economical processes in cutting metals at various speeds and feeds; Kotikova, E. T. - The effect of cleaning with a blast of metal-shot on the strength of machine components; Lumpe, V. E. - The working of holes with an electric spark method; and Nefedov, A. F. - The investigation of the influence of microfinished surfaces on the wear of cylinders of interhal combustion engines.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

Nefedov A F

AUTHOR: Nefedov, A. F. 123 - 1 - 93

TITLE: Mutual Influence of Geometrical Parameters of Surface on Its Wear and the Problem of Efficient Technology in Receiving the Most-favorable Micro-profile of Surface in Certain Conditions of Friction (Vzaimnoye vliyaniye geometricheskikh parametrov poverkhnosti na yee iznos i vopro o ratsional'noy tekhnologii polucheniya optimal'nogo mikroprofilya poverkhnosti pri nekotorykh usloviyakh treniya).

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-ta, 1955, 60-74.(USSR)

Card 1/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

123 - 1 - 93

ABSTRACT: The influence of technology of machining on the surface wearability, i.e. on its geometrical properties, is discussed. A special equipment for obtaining intermittently-smooth surfaces is described. As a result of the investigation the following deductions are made: 1) reduction of time in built-in surface treatment has been achieved by increased precision in machining, by accelerated wear-away of surfaces in the initial period of work and by the selection of most favorable micro-unevenness of surface; 2) the presence of macro-deviations in the optimum micro-geometry leads to different conditions of work in the initial and the following period of time; 3) the investigation has shown that the highly-smooth surfaces are not the most efficient in

Card 2/ 4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

comparison with the intermittently-smooth surfaces because of the absence of space for accumulation of lubricating reserves; 4) the making of the intermittently-smooth surfaces by the existing method is not efficient; 5) In the production of intermittently-smooth surfaces it has been proven experimentally that it is advisable to perform a highly finished abrasive work on a finely-bored surface with the allowance of 0.5 to 0.75 to the height of the micro-uneveness left after boring. For the surface which has been bored according to 7 - 8 precision class the allowance for abrasive work is 5 to 6 mk [micron] to the diameter; 6) the indicated method of obtaining the intermittently-smooth surfaces is simple, it safeguards a high precision and accuracy of form, and it eliminates the increased wear in the initial period of work. Seven pictures are given and ten items of bibliography. P.OP.

Card 3/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

123 - 1 - 93

Ref.Zh., Mashinostroyeniye, Nr. 1, 1957, Item 93.

ASSOCIATION: Polytechnical Institute in L'vov (L'vovsk. politekhn. in-t)

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Card 4/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEFEDOV, A.F.

Optimum micro structure of cylinder faces. Avt. i trakt. prom. no.7:31-33 Jl '56. (MLRA 9:10)

1. L'vovskiy politekhnicheskiy institut.
(Cylinders)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136