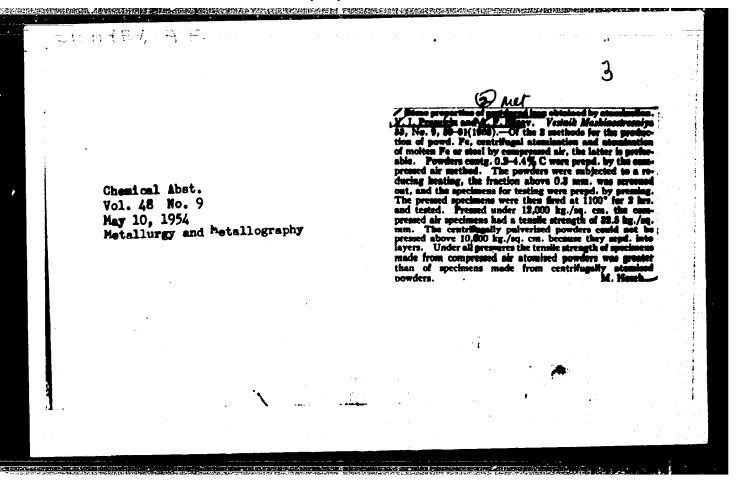
KORNYUSHIN, L.K.; POPANDOPULO, D.N.; SILAYEV, A.F., spetsial'nyy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Patternmaking; work experience of stakhanovite ship repairmen]
Isgotovlenie modelei; opyt stakhanovisev suderementa. Moskva,
Isd-vo "Morskoi transport," 1952. 83 p. [Microfilm] (MLRA 7:10)
(Patternmaking)

"APPROVED FOR RELEASE: 08/23/2000 CI

CIA-RDP86-00513R001550530014-7



SILAYEY, A.F.; PROSVIRIN, V.I., professor, doktor tekhnicheskikh nauk;

RAKOVSKII, V.S., kandidat tekhnicheskikh nauk.

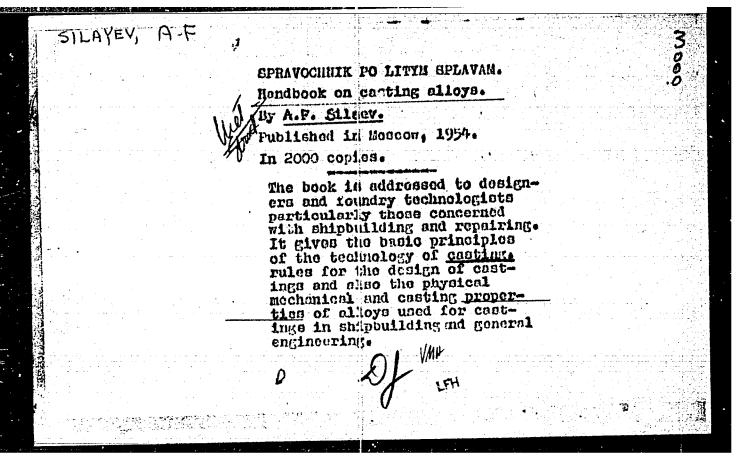
Production of iron, steel and iron slley powders by pulverisation.

[Trudy] TSNIITMASH no.56:124-147 153.

(Powder mettalurgy)

"APPROVED FOR RELEASE: 08/23/2000 CI

CIA-RDP86-00513R001550530014-7



SILAYEV, A.F.

Results of a scientific-technical conference on steel casting.

(MIRA 7:4)

Lit.proizv. no.2:20-21 Mr-Ap '54.

(Steel castings)

FIL', Ye.V.; CHERNUSHEVICH, V.A., inshener, retsensent; SILAYEV, A.F., kandidat tekhnicheskikh nauk, redaktor; POPOLOV, IS.S., redaktor; MATVEYEVA, Ye.S., teknicheskiy redaktor.

[Organization of foundries] Organizatsiia litenykh tsekhov. Moskva, Gos. nauchno-tekn.isd-vo mashinostroitel'noi lit-ry, 1955. 207 p. (MLRA 9:4)

SILMYEV, (A IT.

Review of A. F. Silmev's book "Handbook on cast alloys." Lit.

proisv. no.4:30-31 rp 755.

(Alloys)

(Silmev. A.F.)

SILAYEV, A.F.

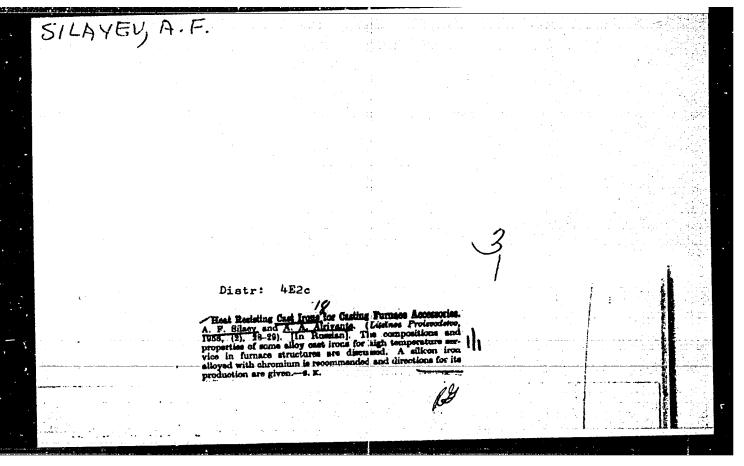
Summary of the scientific and technical session on the quality improvement of steel castings. Lit.proisv. no.10:31-32 0.55.

(Steel castings) (MIRA 8:12)

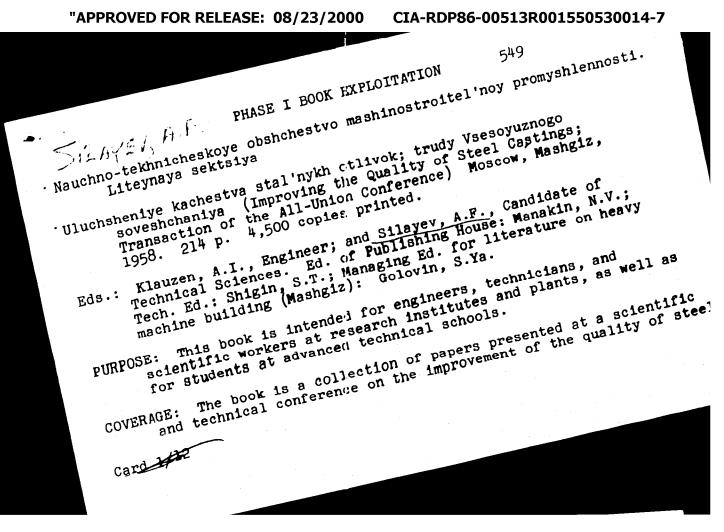
SILAYEV, A., kandidat tekhnicheskikh nauk

"Ways of economizing nonferrous metals." B.P.Siniutin, V.E.Shirochenko. Reviewed by A.Silaev. Mor.flot 15 no.8:31-32 Ag'55. (MIRA 8:10) (Honferrous metals) (Siniutin, V.P.) (Shirochenko, V.E.)

SILA	16	V, A. E.		
USSR/ Eng	inee	ring - Metals testing		
Ward 1/1		Pub. 128 - 14/28		
Authors		Silayev, A. F., Cand. of Mech. Sc.; and Prosvirin, V	'. I., Dr. of	Mech. Sc.,
Title		Granulometric composition and the form of powder par atomisation method	ticles obtain	ned with an
Periodical	t -	Vest. mash. 35/6, 61 - 64, Jun 1955		
Abstract	ī	Various types of metallic powders were tested to det physical characteristics of liquified metal and its the granulometric composition and form of powder par are briefly described, and technical data is given. graphs.	atomization r ticles. Ind	methods, on ividual tests
Abstract Institution	•	physical characteristics of liquified metal and its the granulometric composition and form of powder par are briefly described, and technical data is given.	atomization r ticles. Ind	methods, on ividual tests
	on :	physical characteristics of liquified metal and its the granulometric composition and form of powder par are briefly described, and technical data is given. graphs.	atomization r ticles. Ind	nethods, on ividual tests



Equipment for producing powdered metals from melts. Vest.mash.
36 no.10:29-31 0 '56.
(Powder metallurgy)



Improving the Quality of Steel Castings (Cont.) 549

castings. The conference was organized by the Casting Section of NTOMAShPROM (Scientific and Technical Society of the Machine-Building Industry) in March, 1955. The articles present the results of investigations concerned with the processes of melting, pouring, and solidification, as well as with interaction between mold and and solidification, as well as with interaction of continue defeat. casting, heat treatment of steel, and correction of casting defects. For references, see Table of Contents.

TABLE OF

Silayev, A.F., Candidate of Technical Sciences. Ways of Improving the Quality of Steel Castings

The author states that casting rejects at Soviet foundries average 3.5 percent of the total output. Two important causes of this, he says, are outmoded production methods and inadequate supply of proper

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Improving the Quality of Steel Castings (Cont.) 549

materials and equipment. He points out that the USSR lags behind the USA in mechanization and automation of casting processes. He recommends the speedy adoption of modern, efficient technological methods and, above all, an intensification of research in casting methods.

Berg, P.P., Professor, Doctor of Technical Sciences. Effect of Mold Material on the Quality of Castings

The author discusses gas cavities, hot cracks, dimensional accuracy, pick-up, surface quality, and surface alloying in connection with the nature of the mold material.

Borovskiy, Yu. F., Engineer; Gulyayev, B.B., Professor, Doctor of Technical Sciences. Increasing the Surface Smoothness of Castings

19

Card 3/12

PONOMAREV, Viktor Aleksandrovich; PASTHENAK, Mina Aleksandrovna; YERENBURG,
Yelizar Yefimovich; GERETYKIY, Te.A., retsenzent; SIIATEV, A.F.,
red.; UVAROVA, A.F., tekhn. red.

[Increasing labor productivity in casting sections] Povyshenic
proizvoditel'nosti truda v liteinyth tsekhakh. Moskva, Gos.
proizvoditel'nosti truda v liteinyth tsekhakh. Moskva, Gos.
(Iron founding)

(MIRA 11:9)

SOV/128-59-3-17/31

18(7)

Kreshchanovskiy, N.S. Candidate of Technical Sciences, Silayev, A.F., Candidate of Technical Sciences,

AUTHOR:

Sheshenev, M.F., Engineer

TITLE:

The Influence of Small Admixtures of Foreign Matter on the Structure and on the Heat Resistance of Large

Castings of Steel Type 12KhllV2NMF-L.

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 3, pp 39-42 (USSR)

ABSTRACT:

It has been realized that the use of austenite type steel for castings of turbines and fittings operating at steam temperature of 600 to 610 Celsius is not suitable. The rasons are: high price and weak technological qualities. Therefore during the recent years for this purpose perlite type and semi-ferrite type steel have been introduced in the Soviet Union and in foreign countries. The tests showed that perlite type and especially semi-ferrite type steel of the type Khil at correct alloying with Mo, W, V, and Nb is able to operate at the above said temperature conditions.

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SOV/128-59-3-17/31

The Influence of Small Admixtures of Foreign Matter on the Structure and on the Heat Resistance of Large Castings of Steel Type 12 XII V2 NMF-L

In case these foreign structure particles are mixed at correct proportion, this alloyed steel allows the production of large steel castings, which have the necessary heat resistance. This paper describes the tests made with steel of the type 12KhllV2MF-L, several small admixtures have been added. Laboratory and shop tests had been made with barium, cerium, zirconium and calcium metal. Small admixtures of these elements have promoted the cristallization of the steel. The shop tests have been carried out in an electric furnace of 4 tons capacity. These tests have been compared with the table established by Larsen-Miller. The best result showed an alloy with added aluminum, barium, and calcium. Tensile strength improved to 9,4 kg per square millimeter from 7 kg ner sq. mm of steel without any admixture. Correspondingly the heat resistance was higher too. There are 7 tables, 9 graphs and 1 micro-photo.

Card 2/2

SOV/129-59-5-9/17 Cand.Tech.Sci. A.F. Silayev, and Engineer Ye.F. Dubrovskaya AUTHORS:

Influence of Sulphur on the Mechanical and Refractory TITLE:

Properties of Cast Perlitic Steel 15KhlM1FB (Vliyaniye sery na mekhanicheskiye i zharoprochnyye svoystva

perlitnoy litoy stali 15KhlM1FB)

PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov,

1959, Nr 5, pp 40-4+ + 1 plate (USSR)

ABSTRACT: The authors investigated the steel produced in a basic electric are furnace of 0.5 ton capacity and sub-divided

into three equal fractions of 150 kg each. The

fractional pouring was carried out for the purpose of verifying experimentally the influence of sulphur (0.010, 0.030 and 0.066%) on the refractory properties in cases in which the contents of other elements remain strictly equal. The analysis of this steel was as follows: 0.18% C; 0.30% Si; 0.61% Mn; 1.42% Cr; 1.20% Mo; 0.33% V; 0.51% Nb; 0.12% Ni; 0.012% P. The lower limit of sulphur content in the steel (0.010%) is

limit of sulphur content in the steel (0.010%) is

determined by the technology of the smelting process in

an electric furnace with a basic lining; the average sulphur content, 0.03%, corresponded with the upper Card 1/3

SOV/129-59-5-9/17
Influence of Sulphur on the Mechanical and Refractory Properties of Cast Perlitic Steel 15KhlMIFB

specified limit whilst the maximum content was twice the permissible value. The results of the analysis for non-metallic inclusions are entered in Table 2. The mechanical properties of the steel after two regimes of heat treatment (V and 2) are entered in Table 3. Heat treatment regime V consisted of homogenization annealing for 90 minutes at 1090 °C, normalization from 1050 °C, helding at 770 °C for 5 hours and cooling in air. The heat treatment P consisted of homogenization arnealing at 1050 °C for 90 minutes, annealing at 1050 °C for 90 minutes, annealing at 1050 °C for 90 minutes, and cooling in air. Results on the sustained strength and on creep are entered in Fig 3 and Table 4. It is concluded that an increase to 0.06% in the sulphur content of the perlitic steel 15KhlMiFB reduces appreciably the plasticity in tension and the impact strength. Sulphur reduces the reserve of plasticity of the steel and accelerates its embrittlement at elevated test temperatures. In long-duration tests, sulphide inclusions are frequently footion of failures. The sulphur content of perlitic steel

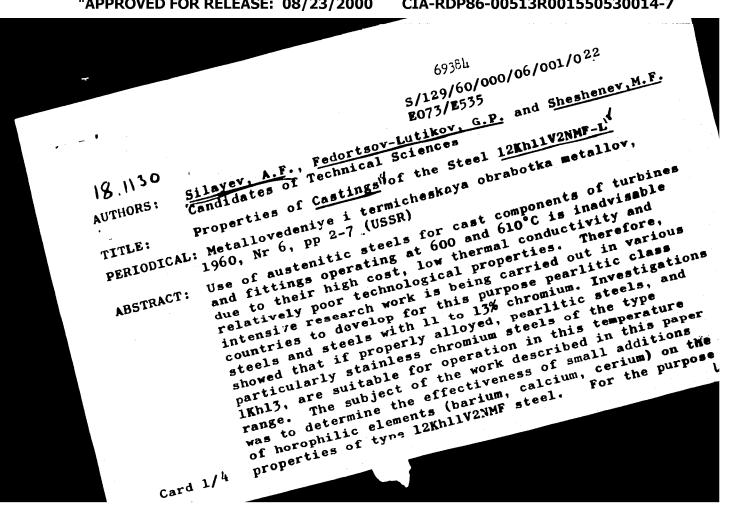
SOV/129-59-5-9/17

Influence of Sulphur on the Mechanical and Refractory Properties of Cast Perlitic Steel 15KhlM1FB

intended for operation at 580 to 610 °C should not exceed 0.020 to 0.025%. Such a limitation on the sulphur content does not complicate the technology of smelting of steel of higher quality and corresponds with the normal process of smelting under white slag. There are 3 figures and 4 tables.

THE HEALTH REPORT OF THE PROPERTY OF THE PROPE

TsNIITMASh ASSOCIATION:



CIA-RDP86-00513R001550530014-7" APPROVED FOR RELEASE: 08/23/2000

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S/129/60/000/06/001/022 E073/E535

Properties of Castings of the Steel 12Khl1V2NMF-L

of comparison, one melt (7-104) was produced without any additions. The chemical compositions of the commercial heats used in the experiments are entered in Table 1. Optimum heat treatment for this steel proved to be as follows: homogenization at 1090 + 10°C; normalization at 1050 + 10°C; tempering at 700 + 10°C followed by cooling in the furnace. It was found that in the case of continuous cooling from the range of the austenitic state with speeds below 250°C/hr, there will only be pearlitic transformation, whilst for larger cooling spaeds (250 to 3000°C/hr) pearlitic and intermediate transformations take place. Fig 1, contains data on the mechanical properties of this steel at 20°C for a melt containing Al-Ba-Ce alloying additions. The plot, Fig 2, shows the changes in the impact strength of steel as a function of the test temperature for material containing Al-Ba-Ce additions (curve a), for material without any additions (curve b) and for material with Ca additions (curve B).

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S/129/60/000/06/001/0²² E073/E535

Properties of Castings of the Steel 12Khl1V2NMF-L

The relatively high structural stability of the material is evident from the data on the changes of the chemical composition of the residue produced by electrolytic dissolution of the steel after various ageing regimes, Table 2. Table 3 and Fig 3 show the results of long-run strength tests (up to 2600 hours) in the temperature range 600 to 670°C; the highest values were obtained for material containing small additions of Al-Ba-Ca. all test conditions fracture of the specimens occurred along crystallites which were intensively deformed in the neighbourhood of the fracture, as can be seen from the microstructure of a specimen fractured at 610°C after having been stressed for 1011 hours with a stress of 15 kg/mm². Fig 5 shows a plot of the creep limit of steel at 610°C for steel containing only Ca additions and for steel containing Al-Ba-Ca additions. following conclusions are arrived at: 1) Introduction into the steel of a small quantity of a

Card 3/4 Al-Ba-Ca alloy does not result in any pyro-effect, brings

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S/129/60/000/06/001/022 E073/E535

Properties of Castings of the Steel 12Kh11V2NMF-L

about a considerable improvement of the technological properties of the tested steel, an increase in the impact strength and ensures a higher degree of hardening in the original state and a less intensive process of softening during operation.

- 3) Introduction into steel of small quantities of Al-Ba-Ca alloys leads to a reduction of the nonuniformity in the properties along the cross-section and this appears to be due to a greater uniformity of the structure, which leads to a reduction of the size effect.
- 3) Steel specimens from a 1.3 ton casting, produced with a small addition of Al-Ba-Ca alloying material and subjected to "soft" heat treatment, had the following high temperature properties:

 $\sigma_{dr105}^{600\text{°C}} = 10 \text{ kg/mm}^2; \quad \sigma_{dr105}^{610\text{°C}} = 9 \text{ kg/mm}^2; \quad \sigma_{n^*1\cdot 10^{-5}}^{610\text{°C}} = 5.8 \text{ kg/mm}^2$

(dr = do razrusheniya - to failure).

There are 5 figures, 3 tables and 3 Soviet references.

ASSOCIATION: TSNIITMASh

Card 4/4

1.1710

26020 S/135/61/000/008/010/011 A006/A101

AUTHORS:

不能是的文化开发性性的情况和最后来的指数的开始的

Silayev, A.F., Candidate of Technical Sciences, Ignat'yev, N.A.,

Engineer

TITLE:

On the expediency of heat treatment of welded heavy press frames

PERIODICAL:

Svarochnoye proizvodstvo, no. 8, 1961, 40 - 43

建国民政治的政治的共享的企业的企业,但是是国际政治的企业的企业,但是国际政治的企业的企业,企业工作的,企业工作的。

TEXT: There are different opinions on the expediency of heat treatment of welded structures for removing residual stresses. The permissible magnitude of residual stresses in welded units and machines has as yet not been established. Therefore the gathering of experimental data obtained from specimens and natural welded structures is of considerable importance. For this purpose an investigation was made by the authors and Yu.N. Zaytsev, G.I. Shevlyakov, V.A. Ignat'yev, and P.V. Novichkov. Tests were performed with 120 kg specimens welded from 60 mm thick steel. Reactive stress fields were obtained by welding-on corner plates. Residual stresses in the built-up metal, the heat-affected zone and the base metal were determined by the diffraction-roentgenographical method. Vibration of specimens as a means of reducing residual stresses was for the first time checked in the Soviet Union, yielding satisfactory results. Moreover, residual

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On the expediency ...

stresses were directly determined on welded press frames, manufactured at the Voronezh Plant of Heavy Mechanical Presses without heat treatment of the welded structures. K274A and K862 frames were subjected to welding, heat treatment, and vibration; stresses from useful loads were determined. The weld joints were subjected to ultrasonic control with the aid of flaw detector \34-7H (UZD-7N). The distribution of residual stresses was studied by the tensometrical method with or without partial trepanation of the frames. Standard pickups of 25 mm base, 120 ohm resistance and a coefficient of sensitivity K = 2.1 were glued on both the internal and external sides of the frames in order to estimate approximately the bending stresses determining the deformation of the frame. The deformation of the pickups was measured with an automatic electronic JNI -3 (EID-3) device. The experiments performed showed that heat or other treatment of welded frames was not expedient. This conclusion is confirmed by the results of analyzing the operation of welded frames which were not heat treated, namely: 1) cracks and other defects caused by residual stresses were not observed in welded press frames and shears, operating over 4 - 5 years; 2) the accuracy of the presses is satisfactory; losses in motor power during idle run are low; 3) the fatigue strength of frames in complex-strained state in the presence of stress concentra-

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Card 2/3

26020 S/135/61/000/008/010/011 A006/A101



On the expediency ...

tors such as poor fusion, is satisfactory. On the basis of results obtained the authors recommend the organization of a model experimental shop for welded structures at the Voronezh plant without a heat treatment department. There are 6 figures, 1 table and 5 Soviet-bloc references.

Card 3/3

SILAYEV, A.F. (Moskva); RAKOVSKIY, V.S. (Moskva)

Obtaining iron and ferroalloy powders by atomizing. Porosh.

met. 2 no.4:83-89 J1-4g %2.

(Powder metallurgy)

(MIRA 15:8)

PHASE I BOOK EXPLOIMATION

SOV/6539

- Silayev, Aleksandr Fedorovich, Georgiy Petrovich Fedortsov-Lutikov, and Mikhail Fedotovich Sheshenev
- Khromistyye zharoprochnyye stali dlya energomashinostroyeniya (Heat-Resistant Chromium Steel for Power Machine-Building) Moscow, Metallurgizdat, 1963. 183 p. Errata slip inserted. 2200 copies printed.
- Ed.: R. M. Kireyeva; Ed. of Publishing House; A. L. Ozeretskaya; Tech. Ed.: L. B. Dobuzhinskaya.
- PURPOSE: This book is intended for engineering personnel engaged in designing, building, and operating power units. It may also be useful to research workers in metal science and to students at technical schools of higher education.
- COVERAGE: The book presents data on chemical composition, structure, and properties of heat-resistant chromium steels used in power machine-building. Basic laws governing the

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Heat-Resistant Chromium Steel (Cont.)

SOV/6539

alloying of heat-resistant nonaustenitic steels and other problems of the heat-resistance theory are discussed. Engineering recommendations are made on the whole cycle of heat-treatment procedure applied to indicated steels. No personalities are mentioned. There are 63 references; 44 Soviet, 16 English, and 3 Czech.

TABLE OF CONTENTS:

Introduction

3

PART I. SOME PROGLEMS OF HEAT-RESISTANCE THEORY AND BASIC PRINCIPLES OF ALLOYING NONAISTENITIC STEEL

Ch. I. Modern Concepts of Mechanisms of Plastic Deformation and Fracture Under Creep Conditions
1. Mechanism of plastic deformation

5

Card 2/6

ALEKSEYEVA, F.N. (Moskva); MATYUSHENKO, A.S. (Moskva); RAKOVSKIY, V.S. (Moskva); SILAYEV, A.F. (Moskva)

Role of secondary distortions in the recrystallization process during the sintering of specimens compressed from high melting metal powders. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.1:97-99 Ja-F '63.

(MIRA 16:3)

(Powder matallurgy)

(Creep of metals)

ALEKSEYEVA, F.N. (Moskva); MATYUSHENKO, R.S. (Moskva); RAKOVSKIY, V.S. (Moskva); SILAYEV, A.F. (Moskva)

Process of compacting high-melting metal powders during pressing. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.2:100-103 Mr-Ap '63. (MIRA 16:10)

L 32225-65 EWP(e)/EWT(m)/EWP(w)/EPF(n)-11/EWR(d)/T/EWP(t)/EWP(b) Pf-11/Pu-1 JD/JG... ACCESSION NR: AP4046739 \$/0226/64/000/005/0001/0008 AUTHORS: Alekseyeva, F.N. (Moscow); Matiyushenko, R.S. (Moscow); Rakovskiy, V.S. (Moscow); Silayev, F.F. (Moscow) TITLE: On the role of secondary distortions during the compacting processes in pressing and recrystallization during the sintering of refractory metals SOURCE: Poroshkovaya metallurgiya, no. 5, 1964, 1-8 TOPIC TAGS: refractory metal, compacting, tungsten, molybdenum, niobium, chromium; secondary distortion, microdistortion, afterflow, microstress, recrystallization grain growth control, sintering temperature ABSTRACT: An analogy was established in the character of the process of compacting 15-mm high cylindrical W, Mo, Nb, and Cr specimens. An accumulation of microdistortions was observed, their size reaching a maximum at 4000 to 6000 dyne/cm². A further rise in pressure had no effect on the microdistortions. The pattern of changes in the values of afterflows was found to coincide with the pattern of changes that occur under the effect of secondary microstresses. ondary microdistortions exerted a substantial influence on the size

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ACCESSION NR: AP4046739

of the recrystallization grains. In increase in these microstresses was accompanied by an intensive growth of the recrystallized grains until they reached a stage at which a saturation with microstresses occurs. Subsequently, the grain sizes stablized and the effect of secondary stresses was negligible. At elevated sintering temperatures and with long holding periods, the recrystallized grains displayed a conspicuous tendency towards intensive growth. Porosity was also found to affect the character and the activity of recrystallization during sintering: it declined under increasing pressures and, consequently, the contact surface expended which, in turn, enhanced the recrystallization process. The experimental results will make it possible to adjust the pressure and the sintering conditions with a view to grain size control, which may have a beneficial effect on rupture strength and creep resistance of refractory metals and alloys. Orig. art. has: 8 figures

ASSOCIATION: None

SUBMITTED: 18Apr63

SUB CODE: MM

NR REF SOV:004

ENCL: 00 OTHER: 000

Çard 2/2

L 8730-65 EWT(m)/EPF(n)-2/EPR/EWP(b) Ps-4/Pu-4AS(mp)=2/ASD(f)/ASD(m)=3JD/JG ACCESSION NR: AP4044909 5/0226/64/000/004/0033/0036 AUTHOR: Alekseyeva, F. N. (Moscow); Matyushenko, R. S. Rakovskiy, V. S. (Moscow); Silayev, A. F. (Moscow) TITLE: Effect of production conditions on the density and strength of sintered refractory metals SOURCE: Poroshkovaya metallurgiya, no. 4, 1964, 33-36 TOPIC TAGS: refractory metal, refractory metal production, niobium, molybdenum, niobium production, molybdenum production, sintered niom blum property, sintered molybdinum property, sintered molybdenum production, sintered niobium production. ABSTRACT: An attempt has been made to establish optimal conditions for compacting and sintering refractory metal powders of Experiments showed that an excessive compacting pressure has a negative effect and that best results are obtained with a pressure of 4000-6000 dan/cm2. The maximum density of compacts is attained by sintering molybdenum in hydrogen at 21731; for 4-5 hrs and by sintering niobium in a vacuum of 0.133 n/m3 (10"3 mm Hg) at the same temperature for

9		2
oporosity of molybdo	enum compacts si	stered in
%, while that of cor ardness of niobium	mpacts sintered and molybdenum c	in a vacuum
ng density. The st	rength of both m	tals in
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	ctively. Orig.	erc. has:
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	Z, while that of co ardness of niobium ng density. The st ps continuously wit /m ² · 10 ⁶ at 293K and niobfum respe	oporosity of molybdenum compacts single that of compacts sintered ardness of niobium and molybdenum cong density. The strength of both mops continuously with increased test /m2 · 106 At 29 % to 155 and 100 no and picbfum, respectively. Orig.

L 65105-65 EWP(*)/EWT(*)/EWP(t)/EWP(*)/EWP(*)/EWP(b)
ACCESSION NR: AP5021976 UR/0286/ JD IJP(e) UR/0286/65/000/014/0038/0038 669.167.24 AUTHOR: Dekhanov, N. H.; Boytsov, L. I.; Zel'din, V. S.; Klassen, V. I.; Kurenkov, I. I.; Plaksin, I. N.; Runov, H. A.; Sīlayev, A. F.; Snezhko, P. F. TITLE: A method for producing dispersed ferrosilicon powder. Class 16, No. 172853 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 38 TOPIC TAGS: powder metal production, silicon alloy, iron alloy ABSTRACT: This Author's Certificate introduces a method for producing dispersed ferrosilicon powder with a particle size of no more than 100 microns by vaporising the molten material using hot or cold air. The yield of fine particles is increased and spherical grains are produced by heating the melt in the 1550-1650°C range and passing it through a silicified sleeve with a valibrated opening which guarantees a constant flow of metal. The melt is then sprayed and the particles are separated according to size. ASSOCIATION: none SUB CODE: MM ENCL: 00 SUBMITTED: 190ct63 NO REF SOV: 000 Cord 1/1 MPA OTHER: 000

ACC NRI ARG035417

SOURCE CODE: UR/0137/66/000/009/g040/g040

AUTHOR: Silayev, A. F.

TITLE: Connection between the physical properties of metallic melts and the parameters of the process of their atomization by a high speed gas stream

SOURCE: Ref. zh. Metallurgiya, Abs. 9G288

REF SOURCE: Sb. Poverkhnostn. yavleniya v rasplavakh i voznikayushchikh iz nikh tverdifazakh. Nal'chik, 1965, 590-594

TOPIC TAGS: molten metal, droplet atomization, powder metal production, surface active agent

ABSTRACT: This is a review of the present status of the problem of obtaining metallic powders by atomizing molten metals with the aid of gases. Using as an example the atomization of molten Fe-Si, the author shows the connection between the physical state of the melt (the values of the surface tension o, the kinetic viscosity γ , and the density ρ of the melt) and the properties of the powders (their microinhomogeneity, shape, and dimension of the particles). The physical state of the melt depends in turn on the superheat temperature of the melt above the solidus line and the presence in the melt of surface-active substances. For Fe-Si melts, such substances are aluminum, carbon, boron, and bismuth. Aluminum in conjunction with bismuth and boron affects favorably the formation of spherical particles during the atomization process. To obtain dispersed powders, the atomization process must be carried out at minimal

Card 1/2

UDC: 621.762.2.001: 669.1'775

ACC NR: AR6035417

values of σ, γ, and ρ, obtained by high superheats and small amounts of additives, and also by effecting the process at high parameters, namely a high degree of heating of the gas and high velocities of the gas stream. The stability of the atomization process depends to a considerable degree on the construction of the atomizing appa-

ratus. V. Kvin [Translation of abstract]

CID	CODE:	וו
อเมก	LUDE	

Card 2/2

SHCHEGOLEV, V.N., professor, doktor sel'skokhosysystvennykh nauk,
redaktor; BERIM, N.C.; BEY-BIYEMEO G.Ya.; BEYANTS.A., B.A.;
BHYANTSEVA, I.B.; VOLGIN, V.I.; DANLEVSKIY, ...S.; ZIMIH, L.S.
OSMOLOVSKIY, G.Ya., redaktor; HIBTSOV, I.A.; SHEVCHEMEO, M.I.;
SHCHEGOLEV, V.N.; YATSEMEO, I.P.; SILAYEV, A.G., redaktor;

GODOLAGINA, S.D., tekhnicherkiy redaktor;

[Entomologist's dictionary namual] Slovar'-spravochnik
entomologa. Moskva, Gos.izd.vo selkhoz.lit-ry, 1955. 451 p.

(Entomology--Dictionaries) (MLRA 8:10)

Hathods for analyzing the effictiveness of insemination of cows. Veterinariia 42 Ho.12:74-75 D 165.

(HIEA 19:1)

ROZHDAYEV, V.I.; SILAYEV, A.M.; IVKIN, N.; PRIYMA, O.; TITOK, V.; ROMANOVSKIY, A.B.; KHERU'IMOV, V.P.

Brief news. Veterinariia 42 no.11:121-126 N '65.

(MIRA 19:1)

1. Sekretar' obshchestvennogo redaktsionnogo soveta zhurnala
"Veterinariya" (for Rozhdayev).

SILAYEV, A. N.

Leather

Making sheepskin leather from rejected skins., Leg. prom., no. 1, 1952.

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

MINHEL'SON, N.M.; SHTMFEL', M.P.; SHLAYEV, A.S.

Arrangement of the clinic for maxillo-facial surgery. Stematologiia

no.4:24-26 Jl-Ag '54.

(DESTISTRY, OFERATIVE,

in Equation)

MIHALSZOM, N.M.; STJEFELJ, M.P.; SZILAJEV, A.Sz.

The aims of the Central Stomatological Institute in maxillofacial surgery. Fogorv. szemie 47 no.11:361-363 Nov 54.

(SURCERY, ORAL
in Hungary)

(IMBHISTRI, OFFRATIVE
in Hungary)

AKISHIN, P. A.; KELLE, V. I.; TATEVSKIY, V. M.; SILAYEV, A. V.

Biophysics

One mistaken theory of Professor Kobozev. Vest. Mosk. un. 5, No. 8, 1950.

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

	L 35031-65 EWT(m)/EWP(b)/EWP(t) JD ACCESSION NR: AP5008155 AUTHOR: Peton, B. Ye.; Dudko, D. /:; Medovar, B. B. I.; Shevchenko, A. I.; Stupek, I. M.; Gonchars B. I.; Shevchenko, A. I.; Stupek, I. M.; Gonchars Petukhov, G. K.; Chudin, N. I.; IM; enets, I. A.; Petukhov, G. K.; Chudin, N. I.; IM; enets, I. A.; Tulin, N. A.; Kapel'nitskiy, V. G.; Privalov, N. Yu. A.; Bystrov, B. N.; Bastrakov, N. J.; Donets TITLE: Method of electroslag cas'ing of ingote. SOURCE: Byulleten' izobreteniy i tovarnykh sasi Topic TAGS: ingot casting, ingot. electroslag casting, alloy melting, metal melting MESTRACT: This Author Certificate introduces ingots in an open or protective atmosphere or ingots in a mold with a nonconsumable or consumable or consumable or monten metal or, if needed, the slag is pours sumable or monconsumable electrose (see Fig. Cord 1/3	casting, electroslag melting a method of electroslag in which slag	sh/003h 3y simovich v.; v.; holodov, ing, steel ing of in first lassa jet.	
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AID P - 4144

Subject

: USSR/Electricity

Card 1/1

Pub. 27 - 31/33

Author

Silayev, E. F.

Title

: Kuvayeva, A. P., and D. N. Lipatov. Sbornik zadach po osnovam elektroprivoda (Collection of Problems of the Foundations of Electric Drives). Editor Prof. A. T. Golovan, 172 pp., Gosenergoizdat, 1955. (Book review).

Periodical

: Elektrichestvo, 12, 80-81, D 1955

Abstract

: This is a textbook composed by instructors of the Moscow Power Engineering Institute im. Molotov. It generalizes the experience of educational activity of the chair "Electric Equipment of Industrial Establishments". The author gives a detailed and favorable review of the book, while indicating some defects which should be corrected in future editions of the book.

Institution:

None

Submitted

No date

ALITMAN, S.Ya., kandidat tekhnicheskikh nauk, detsent; SINITSYN, O.A., kandidat tekhnicheskikh nauk, detsent; SILAYEV, B.F., inzhener.

M.M.Sekelev's beek "Electric drives and pewer supply for industrial plants."
Reviewed by S.IA.Al'tman, O.A.Sinitsyn, E.F.Silaev. Elekrichestve me.8:

(MIRA 9:10)

l. Moskevskeye vyssheye tekhnicheskeye uchilishche imeni Baumana. (Electric meters) (Electric pewer)

经工程的分析的未可是可能使用的现在分词的现在分词形式,并可以使用自己的特殊自己的特殊。但是是不是一个人,但是是不是一个人,但是是不是一个人,但是是不是一个人,

BORISOV, Yuriy Matveyevich; SOKOLOV, Mikhail Mikhaylovich; BASHARIW, A.V., doktor tekhn. nauk, retsenzent; PETROV, I.I., doktor tekhn. nauk, retsenzent; SILAYEV, E.F., inzh., red.; OSIPOVA, L.A., red. izd-va; ELEKIED, V.D., tekhn. red.

[Electric equipment for hoisting and conveying machinery] Elektrooborudovanie pod*emno-transportnykh mashin. Moskva, Gos. nauchnotekhn. izd-vo mashinostroit. lit-ry, 1958. 400 p. (MIRA 11:9)
(Hoisting machinery) (Conveying machinery)
(Electric machinery)

SILAYEV, E.F.

Investigating the performance of electric drives used in bucket excavators. Nauch.dokl.vys.shkolv; mash.i prib. no.4:65-72 (MIRA 12:5)

1. Stat'ya predstavlena kafedroy "Blektrotekhnika i elektrooborudovaniye" Moskovskogo vysshego tekhnicheskogo uchilishcha
im. Baumana.
(Excavating machinery--Electric driving)

8 (5) AUTHOR:

Silayev, E. F., Engineer

sov/105-59-11-28/32

TITLE:

On the Extension of the Field of Application of Synchronous

Electric Motors in the Industry

PERIODICAL:

Elektrichestvo, 1959, Nr 11, pp 91-92 (USSR)

ABSTRACT:

In the GNTK SSSR (GNTK USSR) a conference took place on June 9, 1959 under the chairmanship of Professor I. A. Syromyatnikov, Doctor of Technical Sciences, which was attended by representatives of the following institutions and factories: Soyuzglavenergo pri Gosplane SSSR (Al-Union Main Power Administration of Gosplan USSR); Irkutskaya TETs Nr 1 (Irkutsk Thermal Power Plant Nr 1); NIIP (Scientific Research Institute of Electrical Industry); factory "Elektrosila"; Lys'venskiy turbogeneratornyy (Lys'va Factory for Turbogenerators); the planning institutes "Elektroproyekt" of the nitrogen industry; Tyazhpromelektroproyekt (State Design and Planning Institute for Heavy Electrical Industry); Gipromez (State Institute for the Design and Planning of Metallurgical Plants); Gosinspektsiya po promenergetike Soyuzglavenergo (State Inspection for Industrial Energy of the Soyuzglavenergo); VNIIE (All-Union

Card 1/3

Scientific Research Institute for Power Engineering);

(/) Scientific Research Institute for Fourt mighteeting);

On the Extension of the Field of Application of Synchronous Electric Motors in the Industry

SOV/105-59-11-28/32

Glavelektromontazh (Main Administration for Electric Installations); TeBTIE; Yerevanskiy filial NIIA (Yerevan Branch of the NIIA); GHTK RSFSR; Gosplan SSSR (Gosplan USSR) and others. The resolutions adopted by this Conference are summarized in 11 points: 1) the shortcomings with respect to output and nomenclatures in synchronous motors are dealt with. 2) The extension of the production plan is outlined. 3) The Gosplan SSSR and the GNTK SSSR are ordered to organize the selection of synchroncus motors for general industrial purposes in 1959. 4) The reduction of the delivery costs is claimed. 5) The Gosplen SSSR is ordered to control the further development of synchronous motors with suited rated and starting properties together with the GNTK SSSR and the Komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniya (Committee of the Council of Ministers of the USSR for Automation and Machine Construction). 6) The state authorities are ordered to issue specifications for the planning organizations. 7) In 30ST 183-55 additional hints shall be made concerning cos (6. 8) The reduction of the construction costs is discussed. 9) Methodical hints for the technical and

Card 2/3

On the Extension of the Field of Application of Synchronous Electric Motors in the Industry

SOV/105-59-11-28/32

Glavelektromontazh (Main Administration for Electric Installations); TeBTIE; Yerevanskiy filial NIIA (Yerevan Branch of the NIIA); GNTK RSFSR; Gosplan SSSR (Gosplan USSR) and others. The resolutions adopted by this Conference are summarized in 11 points: 1) the shortcomings with respect to output and nomenclatures in synchronous motors are dealt with. 2) The extension of the production plan is outlined. 3) The Gosplan SSSR and the GNTK SSSR are ordered to organize the selection of synchronous motors for general industrial purposes in 1959. 4) The reduction of the delivery costs is claimed. 5) The Gosplan SSSR is ordered to control the further development of synchronous motors with suited rated and starting properties together with the GNTK SSSR and the Komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyenin (Committee of the Council of Ministers of the USSR for Automation and Machine Construction). 6) The state authorities are ordered to issue specifications for the planning organizations. 7) In GOST 183-55 additional hints shall be made concerning cos (f. 8) The reduction of the construction costs is discussed. 9) Methodical hints for the technical and

Card 2/3

On the Extension of the Field of Application of Synchronous Electric Motors in the Industry

sov/105-59-11-28/32

economic calculation of these motors should be given to all planning organizations. 10) The Gosplan SSSR and the Moskovskiy oblastnoy sovnarkhoz (Moscow Oblast sovnarkhoz) are ordered to induce the planning organizations and the Serpukhovskiy kondensatornyy zavod (Serpukhovsk Condenser Factory) to study the problem of the compensation of relative load by condensers. 11) The TsBTIE is ordered to issue prospectuses on the motor characteristics.

Card 3/3

PETROV, I.I., prof., doktor tekhn.nauk, red.; SIROTIN, A.A., red.; CHILIKIN, N.G., prof., doktor tekhn.nauk, red.; SUD, I.I., red.; SILAYEV, E.F., red.; VORONIN, K.P., tekhn.red.; LARIO-NOV. G.Ye., tekhn.red.

[Electric driving and automatic control of industrial systems; transactions of the All-Union Conference on the Automation of Industrial Processes in Machinery Manufacture and on Automatic Electric Driving in Industry] Elektroprived i avtomatizateiia promyshlennykh ustanovek; trudy Vsesqiuznoge ob edinennege soveshchaniia po avtomatizateii proizvodstvennykh protessev v veshchaniia po avtomatizateii proizvodstvennykh protessev v mashinostroenii i avtomatizirovannomu elektroprivedu v promashinostroenii i avtomatizirovannomu elektroprivedu v promashlennosti. Pod obshchei red. I.I.Petrova, A.A.Sirotina i myshlennosti. Pod obshchei red. I.I.Petrova, 1960. 470 p.

M.G.Chilikina. Moskva, Gos.energ.izd-vo, 1960. (MIRA 13:7)

1. Vsesoyuznoye ob yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovamnomu elektroprivodu v promyshlennosti. 3d. Moscow, 1959. (Electric driving)

OLEFIR, F.F., kand.tekhn.nauk; ROGANOV, V.F., inzh.; SILAYEV, E.F., inzh.

Electric drive of a winder with an astatic band tension regulator. Elektrichestvo no.5:23-30 My '61. (MTRA 14:9)

(Rolling mill:) (Electric driving)

REYNGOL'D, Yu.R. (Moskva); SILAYEV, E.F. (Moskva) Transfer function of an amplidyne-generator system with

Transfer function of an amplidyne-generator system to the capacitive and flexible regative feedback dependent on the voltage and exerted force. Elektrichestvo no.5:60-63 My '62. (MIRA 15:5)

(Rotating amplifiers)

CIA-RDP86-00513R001550530014-7" APPROVED FOR RELEASE: 08/23/2000

ACCESSION NR: AP4029144

8/0105/64/000/004/0046/0043

AUTHOR: Druzhinin, N. N. (Doctor of technical sciences, Moscow);

Silayev, E. F. (Engineer, Moscow)

TITLE: Transfer functions and matrix structures of a continuous rolling mill

SOURCE: Elektrichestvo, no. 4, 1964, 46-53

TOPIC TAGS: automatic control, rolling mill, rolling mill automatic control, continuous rolling mill control, transfer function, rolling mill transfer function

ABSTRACT: Thanks to a narrow-limit variation of the operating parameters of a continuous multistand cold-rolling mill, the relations between these parameters are almost linear, which greatly simplifies the mathematical treatment of the problem. The following equations describing the interconnection between the multimotor electrical drive and the process, allowing for elasticity of the mechanical members, are set up: output strip thickness equation, static motor

Card 1/2

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APPROVED FOR RELEASE: 08/23/2000

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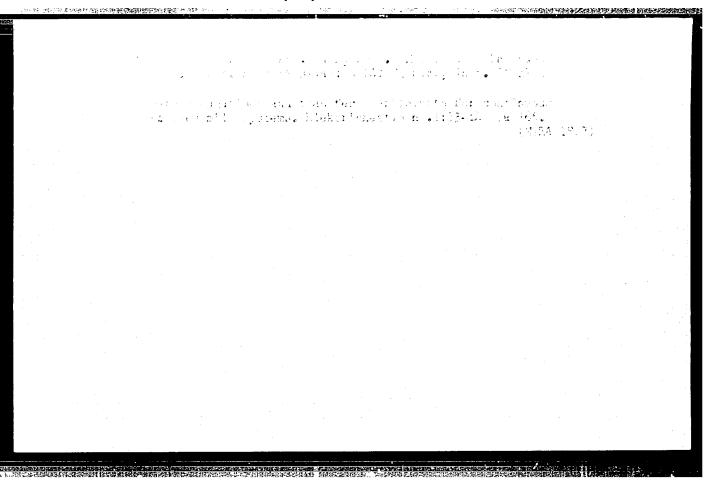
SILAYEV, E.F., inzh.

Investigating the dynamics of the control system of a continuous cold rolling mill. Izv. vys. ucheb. zav.; mashinostr. no.1:186-204 65. (MIRA 18:5)

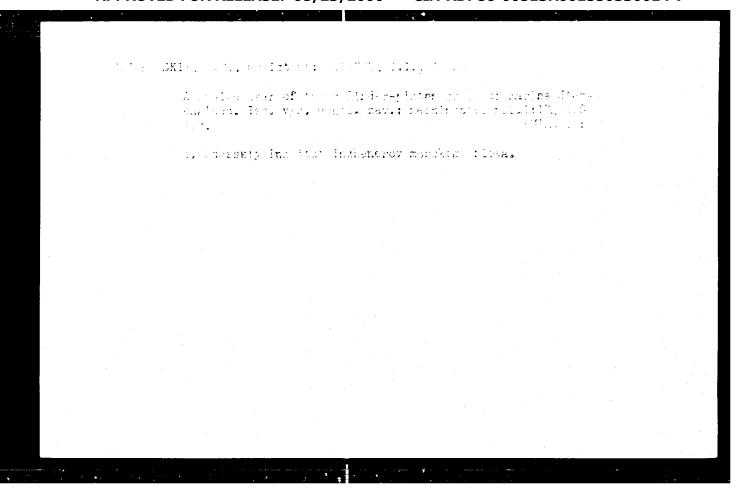
Granderson werdersondersterning de street et seinenskriver in de street kommentersonden en beskriver beskriver

GUTKIN, Boris Mironovich; SILAYEV, E.F., red.

[Direct current drives with ignitrons] Ionnyi privod postoiannogo toka. Moskva, Energiia, 1965. 455 p. (MIRA 18:7)



L 27948-66 UR/0105/66/000/001/0085/0086 SOURCE CODE: ACC NR: AP6017708 AUTHOR: Bertinov, A. I.; Voronetskiy, B. B.; Gendel'man, B. R.; Girshberg, V. V.; Gromov, V. I.; Druzhinin, N. N.; Kunitskiy, N. P.; Naumenko, I. Ye.; Petrov, I. I.; Vetrov, G. N.; Rusakov, V. G.; Silayev, E. F.; Slezhanovskiy, O. V.; Syromyatnikov, I. A.; Tulin, V. S.; Filin, N. H.; Tselikov, A. I.; Chilikin, M. G.; Yun kov, M. G. ORG: none TITLE: Engineer N. A. Tishchenko (on his 60th birthday) SOURCE: Elektrichestvo, no. 1, 1966, 85-86 TOPIC TAGS: electric engineering personnel, metallurgic furnace, electric equipment ABSTRACT: Nikolay Afanas yevich Tishchenko completed the Khar kov Electrotechnical Institute in 1930, after working as an electrician in a Metallurgical plant from 1923-1926. He was active in the development of domestically produced electrical equipment for rolling mills and metallurgical furnace works. He was active during WWII in restoring electrical equipment damaged by the Germans. After the war, he was active in developing electrical drive equipment for both domestic and foreign metallurgical plants. He has been active in scientific work, publishing over 45 works in such varied fields as electric drives, equipment reliability and productivity of labor. Orig. art. has: 1 figure. [JPRS] SUB CODE: 09, 13 / SUBM DATE: none Cord 1/1



SNITKOVSKIY, M.M., inzh.; SILAIEV, I.I., inzh.

Changes in the microharcness of phosphorus compound inclusions

Metalloved.

in gray cast iron at from 20 to 3000 temperatures. Metalloved. i term. obr. met. no. 5:42-45 My 160. (MIRA 13:12)

1. Odesskiy institut inshenerov morskogo flota.
(Cast iron--Metallography) (Metals at high temperatures)

SMITKOVSKIY, M.M., assistent; SILAYEV, I.I., inzh.

Mechanism of the wear of gray phosphorous cast iron caused by friction. Izv.vys.ucheb.zav.; mashinostr. no.10:37.36 161. (MIFA 14:12)

1. Odesskiy institut inzhenerov morskogo flota. (Cast iron-Testing)

IVANOV, S.A., dotsent; SILAYEV, I.I., inzh.; SNITKOVSKIY, M.M., inzh.

Causes of seam failure in expanding welded boiler tubes. Stal[†] 22 no.1:72-73 Ja [†]62. (MIRA 14:12)

1. Odesskiy institut inzmenerov morskogo flota. (Boilers, Water tube--Welding)

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S/112/60/000/008/012/012

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1960, No. 8, p. 412, # 6.7172

AUTHOR:

Silayev, M.A.

γ

TITLE:

The Pondermotive Effect of Elliptically Polarized Electromagnetic Waves

on the "Plane" Phase-Shifting Element in Circular Waveguides 25

PERIODICAL:

Uch. zap. Khar'kovsk. ur.-t, 1959, Vol. 102, Tr. Radiofiz. fak. Vol.

3, pp. 25-33

TEXT: The author investigates the transformation of polarization when transmitting waves with arbitrary orientation of the polarization ellipse by a "plane" phase-shifting element. The mean power for one period is determined, which is transmitted by an elliptically polarized wave of the $\rm H_{11}$ type. Based on the conception of quantum mechanics, the angular electromagnetic moment of the $\rm H_{11}$ wave was found. The pondermotive moment of elliptically polarized $\rm H_{11}$ waves was determined.

A.V.M.

Translator's note: This is the full translation of the criginal Russian abstract.

Card 1/1

SILAYEV, N.I., kandidat ekonomicheskikh nauk. Effect of traffic volume on the operational expenditure of railroads.

(Railroads -- Traffic)

(HIRA 8:1)

CIA-RDP86-00513R001550530014-7" APPROVED FOR RELEASE: 08/23/2000

TUCHKEVICH, T.M., kandidat ekonomicheskikh nauk (Ehar'kov); APAMENEO, N.V., kandidat ekonomicheskikh nauk, inzhener (Ehar'kov); KRIMMUS, G.Kh., inzhener (Ehar'kov); LEMERSKIY, A.Ya., (Ehar'kov); MAUMOV, G.K., kandidat ekonomicheskikh nauk (Ehar'kov); SILAYEV, N.I., kandidat ekonomicheskikh nauk, dotsent (Ehar'kov); USHAKOV, P.S., (Khar'kov); EMEL'SHTEYN-UDYANSKIY, P.G.; kandidat ekonomicheskikh nauk (Ehar'kov).

Qualities and defects of a manual on transportation economics ("Technical manual for railroad engineers." Volume 11. "Planning and accounting in railroad transportation." Reviewed by T.M. Tuchkevich and others.) Zhel.dor. transp. 38 no.8:91-93 Ag '56.

(Railroads--Management)

(MIRA 9:10)

NAUHOV, G.K., kandidat ekonomicheskikh nauk (Khar'kov); SILATEV, H.I. kandidat ekonomicheskikh nauk (Khar'kov); TUGHIVIGH, T.N. kandidat ekonomicheskikh nauk (Khar'kov); TELISIEVA, T.V., inzhener (Khar'kov); KRIMNUS, G.Rh., inzhener (Khar'kov).

Popular library on the economics of railroad transportation, Zhel. dor. transp. 39 mo.5:93-96 My '57. (MIRA 10:6) (Bibliography--Railroad engineering)

NAUMOV, G.K., kand.ekon.nauk; SILAMEV, W.I., kand.ekon.nauk; TUCHKEVICH,
T.M., kand.ekon.nauk; KRIMNUS, G.Kh., kand.ekon.nauk; YELISEYEVA,
T.V., inzh. (Khar'kov)

Necessary textbooks for the teaching of economics to personnel.

Zhel. dor. transp. 40 no.6:91-94 Je '58. (MIRA 11:6)

(Railroads--Finance)

KRIMNUS, C.Kh., kand. ekon. nauk; NAUMOV, G.K., kand. ekon. nauk; SILAYEV, N.I., kand. ekon. nauk (Khar'kov)

"Rolling stock economics" by V.I. Dmitriev. Reviewed by G.Kh. Krimus, G.K. Naumov, N.I. Silaev. Zhel. dor. transp. 41 no.10: 94-96 0 '59.

(Railroads--Rolling stock)

(Dmitriev, V.I.)

MINKIN, I.B. [deceased]; SILAYEY, N.I.; KRIMNUS, G.Kh.; NAUMOV, G.K.; GENESIN, A.M.; GRINENEO, Ya.F.; POPOV, A.V., inzh., red.; KHITROV, P.A., tekhn.red.

[Costs of transportation on industrial railroads] Voprosy sebestoimosti perevozok na promyshlennom zheleznodorozhnom transporte. Moskva, Gos.transp.zhel-dor.izd-vo, 1960. 175 p. (Moscow. Vsesoiusnyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.185). (MIRA 13:11) (Railroads, Industrial--Cost of operation)

ORLOV, V.N., prof; SILAYEV. N.I., kand. ekon. nauk; KRIMNUS, G.Kh., kand. ekon. nauk; NAUMOV, G.K., kand. ekon. nauk; TUCHKEVICH, T.M., kand. ekon. nauk; KARASIK, V.Ya., kand.tekhn.nauk; GORDON, Ye.G., starshiy prepodavatel

"Transportation economics" by T.S. Ehachaturov. Reviewed by V.N.Orlov and others. Zhel.dor.transp. 42 no.10:91-95 0 *60. (MIRA 13:10)

(Railroads-Freight)

CIA-RDP86-00513R001550530014-7" APPROVED FOR RELEASE: 08/23/2000

NAUMOV, Georgiy Karpovich; SILAYEV, Nikolay Ionovich; CHERNUKHA,
Nikolay Timofeyevich; SHCHERBAKOV, P.D., retsenzent; PESKOVA,
L.N., red.; USENKO, L.A., tekhn. red.

[Business accounting in a railroad section] Khoziaistvennyi raschet na otdelenii zheleznoi dorogi. Moskva, Transzheldor-(MIRA 15:12) izdat, 1962. 158 p.

(Railroads—Accounting, bookeeping, etc.)

NAUMOV, Georgiy Karpovich; SILAYEV, Nikolay Ionovich; STEFANOV, Nikolay Yakovlevich; USHAKOV, Pavel Semenovich; CHERNUKHA, Nikolay Timofeyevich; BERZHIGAL, Lazar' Davidovich; STARTSEV, A.N., inzh., retsenzent; KOLTUNOVA, M.P., red.; BOBROVA, Ye.N., tekhn.red.

[Economics of the work of railroad stations] Ekonomika raboty stantsii. Moskva, Vses.izdatel'sko-poligr.Ob*edinenie M-va (MIRA 14:6) putei soobshcheniia, 1961. 262 p. (Railroads-Stations)

162.

NETYUKHAYLO, P.A., kand. tekhn. nauk, dotsent; SILAYEV, N.I., kand. ekonom, nauk, dotsent; SHEDEY, A.I., kand. tekhn. nauk, dotsent Economic efficiency of the modernization of TE1 and TE2 diesel locomotives. Sbor. nauch. st. KHIIT no.63:49-57 (MIRA 16:11)

SILAYEV, N.I., kand. ekon. nauk; KOLTUNOVA, M.P., red.; VOROBIYEVA, L.V., tekhn. red.

[Labor productivity and work costs in stations] Proizvoditel'nost' truda i sebestoimost' raboty na stantsilakh. Motel'nost' truda i sebestoimost' raboty na (MIRA 17:3) skva, "Transport," 19:4. 56 p.

NAUMOV, Georgiy Karpovich, kand. ekon. nauk; KONAREV, Nikolay
Semenovich, inzh.; SILAYEV, Nikolay Ivanovich, kand. ekon.
nauk dots.; FERAPONTOV, Gennadiy Viktorovich, inzh.;
CHERNUKHA, Nikolay Timofeyevich, inzh.; GOLITSIN, Boris
Vasil'yevich, inzh.; KRIMNUS, Grigoriy Kharitonovich, kand.
ekon. nauk, dets.; KOLTHNOVA, M.P., red.

[Economics of railroad freight transportation] Ekonomika gruzovogo khoziaistva zheleznykh dorog. Moskva, Transport, (MIRA 18:12) 1965. 238 p.

