Such English Syr 1.

73-1-21/26

AUTHOR: Vdovichenko, V. T., Galenko, N. P. and Sarashvili, I. G.

TITIE: Investigations of Methane Oxidation in Molten Metal Chloride Salts. (Issledovaniye Khlorirovaniya Metana v Rasplavakh Soley Khloridov Metallov.)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.1, pp. 110 - 116 (USSR).

ABSTRACT: Optimal conditions for this process were found to be:
temperatures of 450°C, gas velocity of 30 l/hour and
an oxygen: chlorine ratio of 0.68 - 0.85. The quantity
of active chlorine at optimum process conditions is
60 - 64 vol.%. Under conditions of direct chlorination of
methane in a solution of KCl - ZnCl₂ - CuCl₂ about 85 - 90
mol.% consists of methyl chloride, 9 - 14% methylene
chloride, 2 - 5% chloroform and a negligible amount of
tetravalent C. Previously published work on the chlorination process of methane is reviewed briefly (viz. Refs. 1 4). Details of the laboratory equipment used for this
experiment and an illustration of the same are given.
Highest yields were obtained at a temperature of 60°C
(graph 2), the highest yield (according to the gas
velocity) at 30 l/hour. Experimental data on the
chlorination of methane in melts are tabulated. There

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73-1-21/26

Investigations of Methane Oxidation in Molten Metal Chloride Salts.

are 4 graphs, 1 table, 6 references, 3 of which are Slavic.

SUBMITTED: August, 22, 1956.

ASSOCIATION: Gas Utilization Institute, Academy of Sciences,
Ukrainian S.S.R. (Institut Ispol'zovaniya Gaza AN USSR.)

AVAILABLE: Library of Congress

Card 2/2

(Gasifi) عنواسالة: 3:	cation of 5 *55. (Liquid	heavy 1 fuels) (iquid fuel Gas produc	s. Trudy ers)	Inst. i	sp. gaza (M	IRA 9:9)	

Producing high-calorie gas from heavy liquid fuel. Visnyk AN URSR 26 no.10:60-63 0 '55. (MIRA 9:1)

(Gas manufacture and works)

FROSHKIN, A.A.; VDOVICHENKO, V.T.; GALENKO, N.P.; GLUKHOMANYUK, A.M.;
KOVKA, B.M.

Production of carbon tetrachloride. Gaz.prom. 6 no.8:31-34 '61.
(MIRA 14:10)

(Carbon tetrachloride)

SOV/80-32-2-19/56

THE PROPERTY OF THE PROPERTY O

AUTHORS: Vdovichenko, V.T., Galenko, N.P., Larionov, A.V.

TITLE: Conversion of Methane by Sulfuric Anhydride to Carbon

Bisulfide (Konversiya metana sernistym angidridom do serou-

gleroda)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2,

pp 347-350 (USSR)

ABSTRACT: The interaction of methane with sulfuric anhydride for the pro-

duction of carbon bisulfide has been studied in the apparatus presented in Figure 1. As catalysts were tried: aluminum gel and bentonite clay, pumice, silica gel "KSK" soaked in various salts. The most active catalyst is pumice treated with lead acetate. The most favorable temperature is 900°C for pumice and 800°C for bentonite. The change of the ration CH_A: SO₂

and 800°C for bentonite. The change of the ration CH_4 : SO_2 Card 1/2 from 0.5 to 3 increases the yield of CS_2 from 0.3 to 1 g per

SOV/80-32-2-19-56

Conversion of Methane by Sulfuric Anhydride to Carbon Bisulfide

1 liter SO₂.
There are 3 tables, 1 graph, 1 diagram, and 10 references,

5 of which are Soviet, 4 English, and 1 German.

SUBMITTED:

August 15, 1957

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210017-7"

KYUNTSEL', A.A.; <u>VDOVICHENKO, Ye.Ya.</u>, POPOV, P.A.

R.B.Shneerova; obituary. Vop.kur., fizioter.i lech.fiz.kul't. 27 no.2:190 Mr-Ap '62. (MIRA 15:11)

(SHNEEROVA, RAISA BORISOVNA, 1888-1961)

GALUSHKO, V.P.; VDOVIKO, Ye.A.

Cathodic reduction of bismuth oxids. Zhur.prikl.khim. 38 no.11:2487-2490 N '65. (MIRA 18:12)

1. Dnepropetrovskiy gosudarstvennyy universitet imeni 300 letiya vossoyedineniya Ukrainy s Rossiyey. Submitted February 29, 1964.

WDOVIN,A.

Betimating costs of moving structures. Sel'.stroi. 10 nc.7:20-22

J1'55.

1. Nachal'nik Saratovskogo otdela podgotovki vodokhranilishcha
"Stalingradgidrostroya"

(Moving of buildings, Bridges, etc..)

(MIRA 13:5)

VDOVIN, A.A. "Plant physiology with fundamentals of microbiology" by P.A. Genkel'. Reviewed by A.A. Vdovin. Bot. zhur. 45 no.1:154-156

Ja 160.

1. Orenburgskiy gosudarstvennyy pedagogicheskiy institut im. V.P.Chkalova. (Plant physiology) (Genkel', P.A.)

THE REPORT OF THE PROPERTY OF

VDOVIN, A.A.; SHVAL'B, V.P.

Study of switching circuits in group selections

Study of switching circuits in group selection operation using a statistical testing technique and an electronic digital computer. Probl.pered.inform. no.11:77-87 '62. (MIRA 16:1) (Switching theory) (Electric networks) (Electronic digital computers)

VDOVIN, A. L. Cand Agr Sci -- (diss) "Agrometeorological substantiation of snow retention in left-bank areas of Bashkiriya." Ufa, 1959. 17 pp (Min of Agr USSR. Bashkir Agr Inst), 150 copies (KL, 52-59, 123)

-93-

Cand Agr Sci - (diss) "Agrometeorological basis of snow retention in the left-bank rayons of Bashkiria." Ufa, 1961. 24 pp; (Min-istry of Agriculture RSFSR, Bashkiria Agr Inst); 150 copies; price istry of author's works on pp 23-24 (12 entries); (KL, not given; list of author's works on pp 23-24 (12 entries); (KL, 7-61 sup, 250)

VDOVIN, A.V., inzh.

Service life of frogs should be doubled. Put' i put.khoz.5
no.2:14-15 F '61.
(Railroads—Switches)

(Railroads—Switches)

VDOVIN, B. Ye.

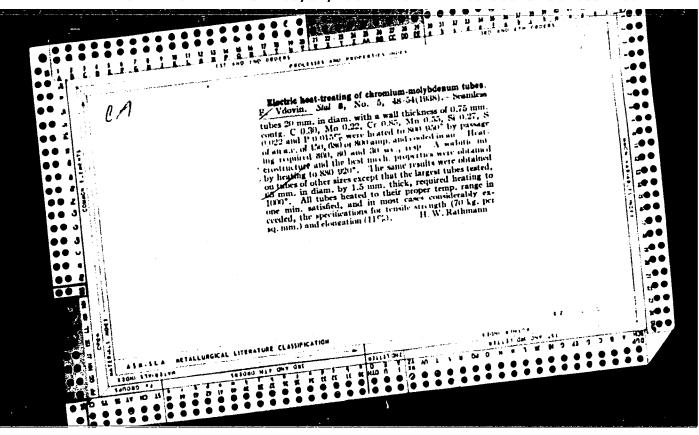
Electric Transformers

Rate of drying of transformers in a vacuum.

Elek. sta, 23, No. 4, 1952

Inzh.

So: Monthly List of Russian Accessions, Library of Congress, 1953, Uncl.



VDOVIN, B. Je.

AID P - 2964

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 14/35

: Vdovin, B. Ye., Eng. Author

: Changing the ventilation scheme of the exciter Title

Periodical: Energetik, 5, 19, My 1955

: The author briefly describes the change introduced in the circulating ventilation of an exciter. Two drawings. Abstract

Institution: None

Submitted : No date

ZAYTSEV, I.F.; VDOVIN, D.I.; GNEDOV, N.P.; BLAGOV, I.S.; ZIMASKOV, V.A.;
KOTKIN, A.M.; IERHTSIYER, I.S.; MIROSHNIKOV, V.G.; OSYKIN, V.T.

Separator for dressing lump material. Gor. zhur no.4:76 Ap 163.

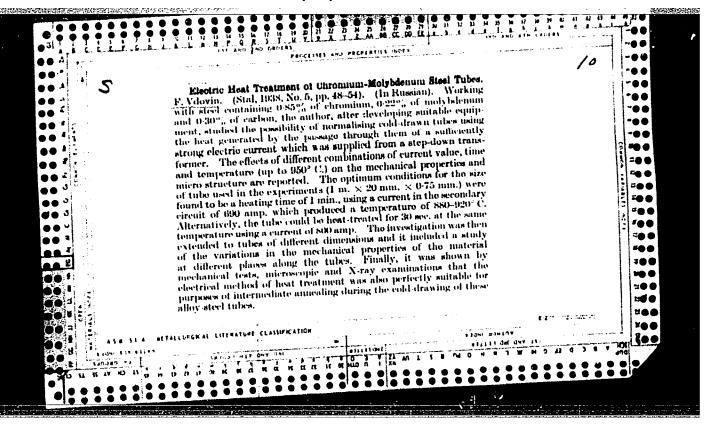
(MIRA 16:4)

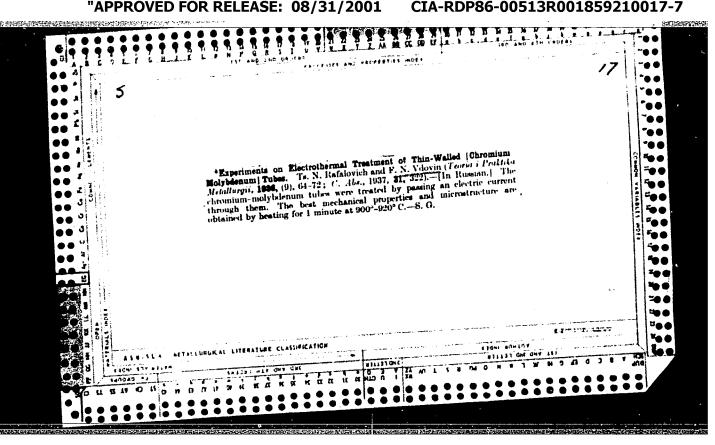
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210017-7"

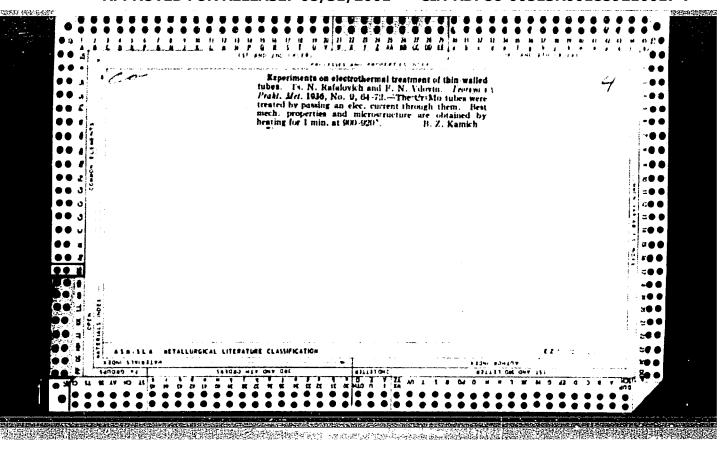
VDOVIN, D.I.; ULITIN, V.G.

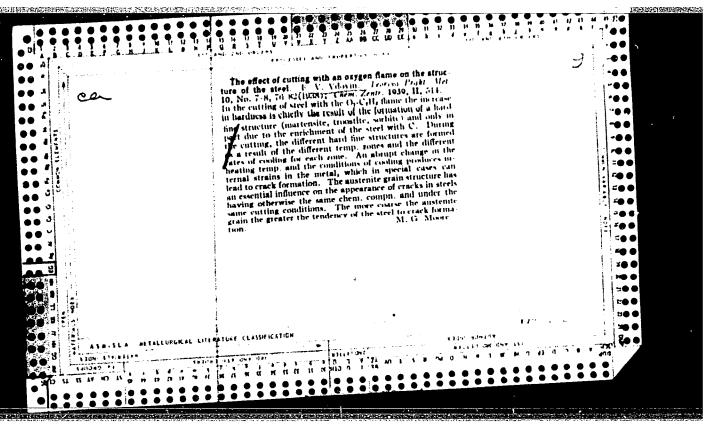
Using the VIRS abparatus in the remote control of conveyers.
Biul.tekh.-ekon.inform. no.1:3-5 '60. (MIRA 13:5)

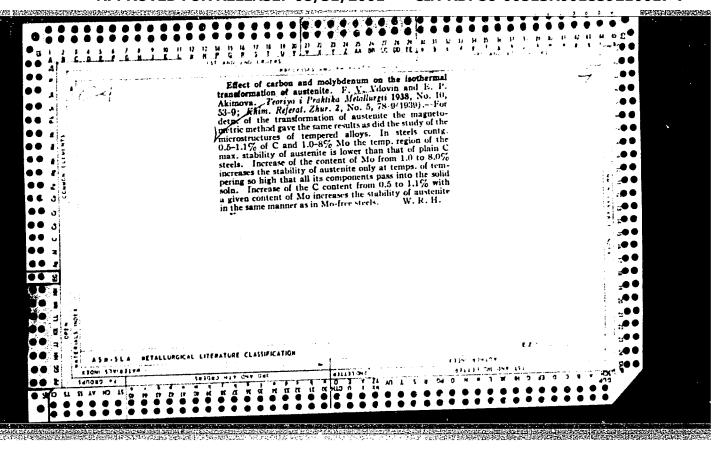
(Mine haulage) (Remote control)











S/137/63/000/001/017/019 A006/A101

AUTHORS:

Vdovin, F. V., Pishchik, N. S.

TITLE:

Mechanical and heat treatment of 3M 531 (EI531) steel during the

production of hot-rolled pipes

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 1, 1963, 95 - 96, abstract 11575 (In collection: "Proiz-vo trub", no. 7, Khar'kov, Metallur-

gizdat, 1962, 128 - 138)

TEXT: The investigation was made with tapered heat-resistant EI531 steel specimens. The steel composition is in %: C 0.08 - 0.12, Mm 0.4 - 0.7, Si 0.4 - 0.7, Cr 2.1 - 2.6, V 0.2 - 0.35, Mo 0.5 - 0.7, Nb 0.5 - 0.8, Ti \le 0.1, Cu \le \le 0.25, Ni \le 0.30, S \le 0.030, P \le 0.030. The tapered specimens were rolled on a two-high mill with 0 to 50% deformation degree and at 850 - 1,200°C temperatures (every 50°C). From the data obtained by measuring a_k , it follows that the maximum a_k =7.8 kgm/cm² is attained at 1,000°C rolling temperature and about 50% reduction. A further increase of the rolling temperature reduces the a_k values. The rolled tapers were then subjected to heat treatment under the following a_k

Card 1/2

S/137/63/000/001/017/019 A006/A101

Mechanical and heat treatment of ...

conditions: 1) tempering at 850° C; 2) quenching from 1,070°C and tempering at 850° C; 3) complex heat treatment - multiple heating over the Ac3 point and the Chernov "v" point; 4) heat treatment with very high initial heating (up to 1,250°C). It was established that the heating temperature for rolling EI531 steel. (at > 50% reduction) should not exceed 1,200°C. Maximum final deformations and the final temperature of rolling as high as 950 - 1,050°C, secure an increase of a_k by a factor of several dozens, as compared with a_k of the initial blank, and eliminate fully the crystalline fracture. To obtain optimum a_k values, it is recommended to conduct tempering at a temperature below Ac1 or to perform heat treatment where the initial heating exceeds the temperature of the Chernov "v" point.

A. Babayeva

[Abstracter's note: Complete translation]

Card 2/2

SOV/137-59-1-1499

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Translation from: Referativnyy zhurnal. Metallurgiya, 1959. Nr 1, p 199 (USSR)

AUTHORS: Vdovin, F. V., Pishchik, N. S., Kovalevskiy, A. I.

TITLE:

Determination of Notch Toughness of Wedge-shaped Specimens After Rolling (Opredeleniye udarnov vyazkosti v klinovykh obraztsakh posle prokatki)

PERIODICAL: Byul nauchno-tekhn inform Vses n.i. trubnyy in.t. 1958 Nr. 4-5, pp 183-186

ABSTRACT: A description of a method whereby the ak value of alloved steels may be determined as a function of the degree of reduction and of the temperature of rolling with the a d of a small number of specimens (S). Wedge-shaped S's, 105-115 mm long, 20 mm wide, and with ends 16 and 10 mm high, were cut from the pipe being investigated. The S's were notched on both sides at 10-mm intervals, their thickness being measured at the same time. They were then rolled at a given temperature in a two-ligh rolling mill to a thickness of 10 mm. The degree of reduction of one S was increased in consecutive steps from 0 to 50%. Longitudinal S's, 4.5x6.0-mm in cross Section, were cut from the wedge-shaped S's after the latter had

SOV/137-59-1-1499

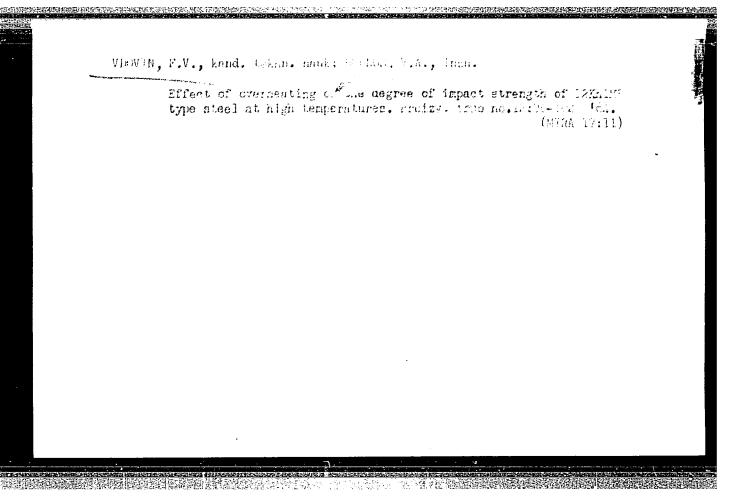
Determination of Norch Toughness of Wedge-shaped Specimens (cont)

been rolled into strips. 10 staggered cuts, each I mm deep, were made on the narrow faces of the Sis at points where the notches had been previously located Sis thus prepared were mounted in a vertical position in the vise of a pendulum impact-testing machine, the cut being on the same level as the top surfaces of the jaws and on the side which would be subjected to tension. The pendulum strikes the free end of the S; the amount of energy corresponding to the rise of the pendulum after fracture of the S was marked off on an Izod scale. The results of the test are presented in the form of curves on triaxial diagrams. The results of test carried out on EI-531 steel are presented as a function of the temperatures of rolling, from 800 to 1200° in increments of 100°, and of the degree of reduction of the steel (in the untempered state and after tempering at 850°) ranging from 0 to 50%. The method described is recommended for laboratory applications in studying novel grades of steels and alloys.

L G.

Card 2/2

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8/123/61/000/011/015/034 A004/A101

Pishik, N. S.; Vdovin, F. V.; Chukmasov, A. S.; Bernshteyn, M. M. AUTHORS:

Investigating centrifugal castings from 1 13418 B2 5 (1Kh13N18V2B) TITLE: steel for the production of particularly thin-walled tubes

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 66, abstract

11B511 (V sb. "Proiz-vo trub" no. 3, Khar'kov, 1960, 123-130)

The authors investigated the microstructure of 1Kh13N18V1B steel TEXT: specimens in the cast and heat-treated state. To check the quality of hot-rolled 89 x 6.5 mm tubes from this steel after heat treatment, their mechanical properties were determined, the macro- and microstructure analyzed and the intercrystalline corrosion tested. The obtained results confirm the possibility of producing especially thin-walled tubes (25 x 1 and 19.5 x 0.2 mm) from 1Kh13N18V1B steel blanks cast by the centrifugal method. There are 3 figures and 3 references.

N. Il'ina

[Abstracter's note: Complete translation]

Card 1/1

SOV/137-58-11-23475

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 233 (USSR)

AUTHOR: ¿Vdovin, F. V.

TITLE: Mechanical Characteristics of the Upset Ends of Drill Pipes (Mekhani-

cheskiye svoystva vysazhennykh kontsov buril'nykh trub)

PERIODICAL: Byul. nauchno-tekhn. inform. Vses. n.-i. trubnyy in-t, 1958, Nr 4-5,

pp 165-173

ABSTRACT: The effects of various factors on the mechanical properties of the

material of the upset ends of drill pipes were investigated on pipes which had not yet been threaded. The investigation dealt with the mechanical properties of the following: a) Rolled tubular stock 170 mm in diameter from 25 smeltings; b) pipes manufactured from above stock, and c) the upset ends of the pipes. For purposes of comparison, investigations were also carried out on pipes made from cast stock from 7 smeltings. It was established that the σ_b and σ_s values of the pipes are somewhat lower, and the δ and ψ values. somewhat higher than in the case of rolled stock. Compared with the body of the pipe, specimens taken from the upset ends exhibited lower σ_b and σ_s values and considerably smaller values of δ , ψ , and a_b .

Card 1/2

SOV/137-58-11-23475

Mechanical Characteristics of the Upset Ends of Drill Pipes

A decrease in plastic properties of specimens taken from the upset ends of the pipes is a consequence of the bending of the fibers in the upset ends at an angle >45° with respect to the axis of the pipe. Mechanical properties of drill pipes manufactured from cast stock virtually do not differ from those of pipes manufactured from rolled stock.

N. K.

Card 2/2

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7,

ACCESSION NR: AR4041596

S/0137/64/000/005/D042/D042

SOURCE: Ref. zh. Metallurgiya, Abs. 5D253

AUTHOR: Vdovin, F. V.; Burnos, V. A.

TITLE: Determination of mechanical properties of ribbed pipes

CITED SOURCE: Sb. Proiz-vo trub. Vy*p. 10. M., Metallurgizdat, 1963, 110-113

TOPIC TAGS: pipe, ribbed pipe, mechanical property

TRANSLATION: Investigation of mechanical properties of ribbed pipes showed the following: Magnitudes of temporary resistance, σ_8 and are changed and depend on form of samples, method of bracing them in clamps of machine and speed of extension during test. In long samples of conditions the yield point is lower (>12%), and

Card 1/2

ACCESSION NR: AR4041596

higher (\sim 6%) than in short. During test of branch extensions on plugs, values of conditional yield point are increased by 16%, and & - by ~12% as compared with test of branch extensions with flattened ends. Change of values of mechanical characteristics is explained by different relative speeds of extension of long and short samples by different course of processes of deformation during test of samples on plugs and with flattened ends. Observed influence of different parameters during carrying out of tensile tests of ribbed pipes demanded creation of single method of checking their mechanical properties for the purpose of obtaining comparable results of determinations. Method of test developed by us specifies use of the volume method of determination of area of transverse section of pipes, as guaranteeing the least errors of calculations. For obtaining comparable results of tests, definite geometric dimensions of samples are recommended (working and calculating length, etc.) in accordance with assortment of pipes. Use of metallic plugs during bracing of samples in grips of test machines and observance of speed characteristic of deformation is obligatory in process of checking the properties of ribbed pipes.

SUB CODE: MM

ENCL:00

Card 2/2

137-58-4-7207

THE PROPERTY OF THE PROPERTY O

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 127 (USSR)

AUTHORS: Fomichev, I.A., Vdovin, F.V., Kravchenko, A.G., Pishchik,

111.0

TITLE: Manufacture of Tubes From Austenitic IKhl4Nl4V2M (EI-257)
Steel [Proizvodstvo trub iz austenitnoy stali IKhl4Nl4V2M

(EI-257)]

PERIODICAL: Byul. nauchno-tekhn. inform. Vses. n.-i. trubnyy in-t, 1957, Nr 3, pp 5-16

ABSTRACT:

Tubes of IKh14N14V2M are designed for use for re-heaters and manifolds of boilers operating under high and superhigh steam parameters. This steel (S) is a S of the austenitic class and is highly heat-resistant. The effects of temperature and degree of reduction on the plasticity of the S were investigated, and experiments were conducted in rolling the tubes on an automatic 400 mill. Forged hollow and solid blanks with machined surfaces were employed. Plasticity was determined by torsion testing, by testing for pierceability, and for tension in a single plane (this last method was employed for the first time and makes it possible to determine the relationship between the temperature and plasticity, under

Card 1/2

137-58-4-7207

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Manufacture of Tubes From Austenitic 1Kh14N14V2M (EI-257) Steel

conditions of stress similar to those of the real stresses existing during piercing, and, consequently, the optimum temperature for the working of the S). The design of the apparatus for testing for plane tension is appended and described. An analysis of the results of the torsion, plane tension, piercing, and microstructure tests is presented. This shows that piercing of the blank should best be performed in the 1200-1225°C temperature interval. The results of tests for pierceability and high-temperature torsion show that as the length of time the metal is held for purposes of heating increases, the plasticity of the S drops. After obtaining the results of laboratory investigation, rolling of tubes of 219x 27 mm dimensions was performed successfully both from hollow and from solid blanks. Solid blanks are recommended as being economically advantageous.

1. Steel tubes--Manufacture 2. Steel tubes--Material

Card 2/2

VDOVIN F. W., kand. tekhn. nauk; SEMENOV, O.A., kand. tekhn. nauk; PISHCHIK, N.S., insh.

Manufacturing cold rolled pipes of low-plastic ferritic steels.

Biul. TSNIICHM no.22:33-38 '57.

(Pipe, Steel)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210017-7"

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Wffect of certain parameters of the upsetting process on
the quality of pipe ends. Trudy NTO Chern.met. 15:93-104
(MIRA 13:7)

159. (Forging) (Pipe flanges)

VDOVIN, F.V., kand.tekhn.nauk; PISHCHIK, N.S., inzh.; KOVALEVSKIY, A.I., inzh.

Determining the toughness of rolled taper specimen. Biul.nauch.tekh.inform.vNITI no.4/5:183-186 '58. (MIRa 15:1)
(Steel--Testing)

VDOVIN, F.V., kand.tekhn.nauk

Engineering properties of upset ends of drilling pipes. Biul.nauch.tekh.inform.VNITI no.4/5:165-173 '58. (MIRA 15:1)

(Oil fields--Equipment and supplies)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210017-7"

ZIL UNGESHTEYN, L.I., kond. tekhn. nauk; VDOVIN, F.V., kand. tekhn. nauk; P.TRUNIN, Ye.P., inch., KCOUS, A.A., inch.

Development of technically founded standards for the technological testing of electrically welded pipe. Proizv. trub no.10:66-70 '63. (:IRA 17:10)

VDOVEN, F.V., kand. tekhn. nauk; BURNOS, V.A., inzh.

Dotormining the mechanical properties of ribbed pipe. Froizv.
(MIRA 17:10)

trub. no.10:110-113 '63.

The force of total participation. Sov. profsoluzy 16 no.18:20-21 (MIRA 13:10)

1. Stankostroitel'nyy zavod imeni Ordzhonikidze.

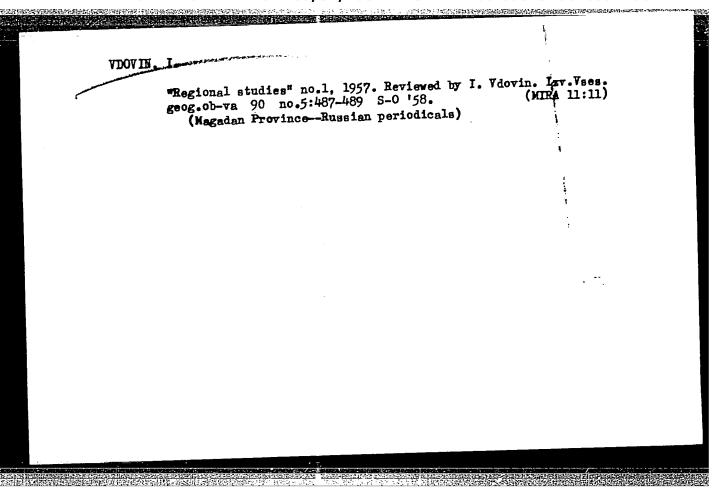
(Machinery industry—Technological innovations)

Reconstruction of the starting apparatus of pnoumatic harmers.

Mor.flot 19 no.6:32 Je '59. (MIRA 12:9)

1. Tekhnicheskiy otdel zavoda imeni Parizhskoy Kommuny.
(Pneumatic tools)
(Ships--Maintenance and repair)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210017-7"



"Over mountains and tundras of the Chukchi National Area" by S.V. Obruchev. Reviewed by I. Vdovin. Izv. Vses. geog. ob-va 90 no.6:557-558 N-D '58. (Chukchi National Area)

AUTHOR:

Vdovin, I.

307/12-90-6-14/23

TITLE:

Reviews (Retsenzii)

PERIODICAL:

Izvestiya vsesoyuznogo geograficheskogo obshchestva, 1958,

Vol 90, Nr 6, pp 557 - 558 (USSR)

ABSTRACT:

The author gives a review of the book "Ro goram i tundram Chukotki - The Mountains and Tundras of Chukotka" by S. V. Obruchev, published by the Gosudarstvennoye izdatel'stvo geograficheskoy literatury (State Publishing Office of Geographical Literature). The author describes an expedition which took place in 1934-1935 to the Chaun district (Chauns-

kiy rayon) of the Chukotka region.

Card 1/1

WDOVIN, I., tekhnolog

Building up bearing nibs using red copper. Rech. transp. 20
no. 2:48-49 F '61.

1. Bakinskiy sudorementnyy zavod imeni Parizhskoy Kommuny.

(Bearings (Machinery))

VDOVIN, I.S.

Commercial relations between the populations of Northeastern Siberia and Alaska to the beginning of the 20th century. Let., Sev. 4:217-127-164. (MIRA 18:3)

VDOVIN, 1. S.

"Iz istorii otnosheniy chukchey i askimosov Alyaski."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

VDOVIN, K.D., inch.

Coal outbursts in mines of the "Sulyuktinskiy" and Kyzyl-Kiya deposits. [Trudy] VNIMI no.49:242-250 '62. (MIRA 17:4)

1. Shakhta No.2/4 rudoupravleniya Sulyuktaugol'.

VDOVIN, I. V.

"The Direct and Inverse Problems of the Attraction Potential of an Elliptical Cylinder." Cand Geol-Min Sci, Dnepropetrovsk Mining Inst, Dnepropetrovsk, 1954. (RZhMat, Apr 55).

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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HERKOVICH, M.Ya.; SPIVAK, A.I.; KORNONOGOV, A.P.; FILIMONOV, N.M.;
POPOV, A.N.; VDOVIN, K.I.; ALEKSEYEV, L.A.; POSPELOV, V.P.

Some problems of gas drilling. Izv.vys.ucheb. zav.;neft' i gas
5 no.5:29-34 '62. (MIRA 16:5)

1. Ufimskiy neftyanoy institut.
(Oil well drilling)
```

BERKOVICH, M.Ya.; KORNONOGOV, A.P.; VDOVIN, K.I.; ALEKSEYEV, L.A.

Theoretical possibility of cold air drilling in eastern oil regions. Izv. vys. ucheb. zav.; neft' i gaz 4 no.5:39-46 '61. (MIRA 15:2)

 Ufimskiy neftyanoy institut. (Bashkiria--Oil well drilling)

VIDVIN, L.A.; LUBEGIN, A.S.

Drilling of holes in glass. Energetik. 13 no.2:16 7 '65.

(MIRA 18:6)

THE CONTRACTOR OF THE PROPERTY OF THE PROPERTY

BERKOVICH, M. Ya.; SPIVAK, A.I.; KORNONOGOV, A.P.; YDOVIN, K.I.; ALEKSEYEV, L.A.; POPOV, A.N.; FILIMONOV, M.M.; POSPELOV, V.P.

Studying the power requirements for breaking rocks by rolling cutter bits. Izv.vys.ucheb.zav.; neft' i gaz 5 no.8:43-49 '62.

(MIRA 17:3)

1. Ufimskiy neftyanoy institut.

ZHDANOV, M.M.; KOSTRYUKOV, G.V.; ASFANDIYAROV, Kh.A.; MAKSUTOV, R.A.;
KONDAKOV, A.N.; TURUSOV, V.M.; SILIN, V.A.; PILYUTSKIY, O.V.;
SHELDYBAYEV, B.F.; PETROV, A.A.; SMIRNOV, Yu.S.; KOLESNIKOV,
A.Ye.; DROZDOV, I.P.; IVANTSGV, O.M.; TSYGANOV, B.Ya.;
KORNONGOV, A.P.; VDOVIN, K.I.; ALEKSEYEV, L.A.; GAYDUKOV, D.T.;
LIPUSCRIY, A.Ya.; DANYUSHEVSKIY, V.S.; VEDISHCHEV, I.A.;
ALEKSEYEV, L.G.; KRASYUK, A.D.; IVANOV, G.A.

Author's communications. Neft. 1 gaz. prom. no.2:67-68
Ap-Je '64. (MIRA 17:9)

VDOVIN, L.Kh., red.; FLORINSKIY, S.V., tekhn.red.

[Idst of wholesale prices for checking and measuring instruments, regulators and other items of the "Energometallurgprom" trust.

Effective on 1 January 1949] Preiskurant optowsk tsen na Effective on 1 January 1949] Preiskurant optowsk izdeliia kontrol'no-izmeritel'nye prihory, reguliatory i prochie izdeliia kontrol'no-izmeritel'nye prihory, reguliatory i prochie izdeliia kontrol'no-izmeritel'nye prihory, reguliatory i prochie izdeliia kontrol'no-izmeritel'nye prihory, veguliatory i prochie izdeliia kontrol'no-izmeritel'nye preiskurant veguliatory i prochie izdeliia kontrol'no-izmeritel'nye preiskurant veguliatory i prochie izdeliia kontrol'no-izmeritel'nye prihory, veguliatory i prochie izdeliia kontrol'no-izmeritel'nye prihory, reguliatory i prochie izdeliia kontrol'no-izmeritel'nye preiskurant i prochie izdeliia kontrol'no-izmeritel'nye prochie izdeliia kontrol'nye proc

ARLYUK, B.I.; TELYATNIKOV, G.V.; YUZHANINOV, I.A., rukovoditel' raboty;

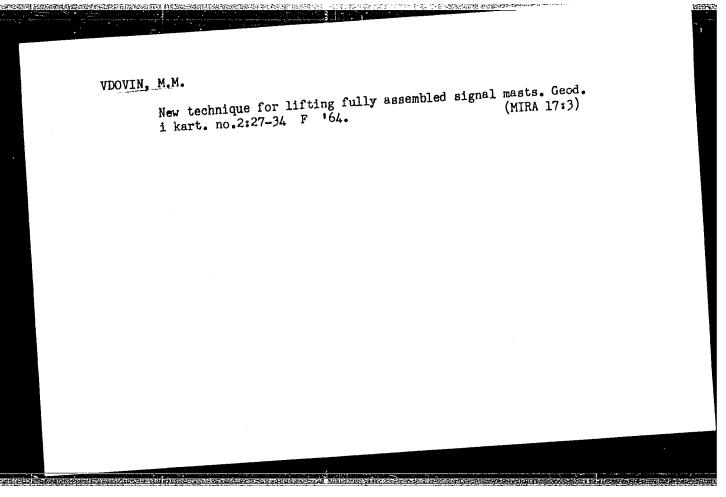
Prinimali uchastiye: KOROLEVA, A.A.; VDOVIN, L.V.

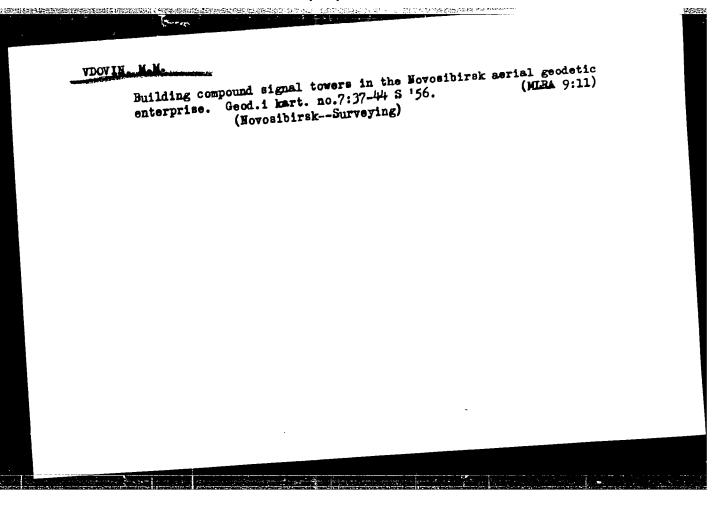
Material carried away from a fluidized bed. TSvet. met. 36

MIRA 16:8)

163.

(Fluidization) (Fly ash)





When the second of electric filters. The term of the second of the secon

CIA-RDP86-00513R001859210017-7 "APPROVED FOR RELEASE: 08/31/2001

VDOVIN, N.

112-3-6066

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 3, p. 147 (USSR)

AUTHORS:

Vdovin, N., Firsov, S.

TITLE:

Feeding of the Carbon-feed Electric Motors of the K T-1 [Motion Picture Projector] in A-C Supplying the Arc Lamp (Pitaniye elektrodvigateley podachi ugley K T-1 pri pitanii dugi peremennym tokom)

Kinomekhanik, 1956, Nr 3, pp. 37-38

PERIODICAL: ABSTRACT:

It is well known that the arc lamp of the K T-1 motion picture projector is designed for d-c operation. When the lamp is operated on alternating current, automatic carbon "eed is impossible. The proposed system includes a selenium rectifier for insuring automatic operation of the arc lamp.

Card 1/1

	Fire in a flour mill combine. Pozh.delo 7 no.3:17 Mr 161. (MIRA 14:5) 1. Nachal 'nik otdela Upravleniya pozharnoy okhrany Saratovskogo oblispolkoma. (Flour mills—Fires and fire prevention)
	
•	

1.	economise materials Machal nik planoveg	. Streitel' no.2'20 F '57. e etdela Upravleniya Ho.82 tro (Building)	(MIRA 10:3)
	•		

LITVINENKO, V.; SKRYPKA, K.; TURCHIN, I.; SKVCRTSOVA, A.; BOYKO, A.;

VDOVIN, P.

Noncontractual relations between the wholesale and retail trade.
Sov. torg. 36 no.1:33-37 Ja '63. (MIRA 16:2)

1. Direktor Bogodukovskogo smeshtorga (for Litvinenko).
2. Upravlýdyushchiy L'vovskoy bazoy "Ukroptgalantereya"
(for Skrypka). 3. Glavnyy tovaroved Krymskoy bazy

"Ukropttekstil'torga" (for Turchin). 4. Upravlydyushchaya

"Ukropttekstil'torga" (for Turchin). 4. Upravlydyushchaya

Krymskoy bazoy "Ukroptgalanterei" (for Kovortsova).

5. Glavnyy tovaroved Krymskoy bazoy "Ukroptgalanterei"
(for Boyko). 6. Upravlydyushchiy respublikansoy bazoy

"Moldgalantereya" (for Vdovin).

(Ukraine—Commerce)

VDOVIN, P., inzhener-polkovnik.

Independent work for pilots in practical aerodynamics. Vest.

(KIRA 8:3)

Vozd.F1. 34 no.12:55-58 D '51.

(Aerodynamics-Study and teaching)

VDOVIN, P.Ye., inzh.; OKHTEERKO, L.V., inzh.

System for cleaning and drying transformer insulating oil. From.
energ. 18 no.8:22-26 Ag '63.

(Insulating oil) (Electric transformers)

VDOVIN, R.A.; VOLKOV. Ya.I., inzh. (Leningrad); TITOV, G.Ye.; KANIN, A.B.

Improving the quality of switches. Put' i put. khoz. no.8:18-19
(MIRA 13:3)
Ag '59.

1. Starshiy dorozhnyy master Moskovskoy distantsii puti Severnoy dorogi (for Titov). 2. Starshiy dorozhnyy master, stantsiya Polotsk, Belorusskoy dorogi (for Kanin).

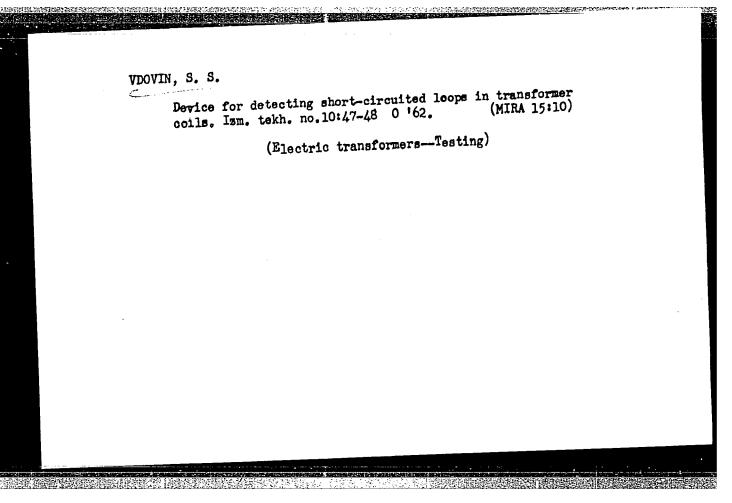
(Railroads--Switches)

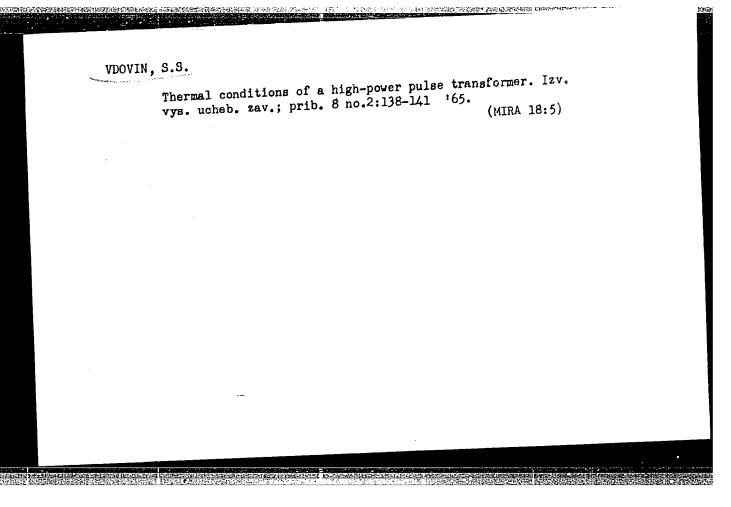
AND DESCRIPTION OF STREET, AND THE PROPERTY OF THE PROPERTY OF

PYATNITSKIY, A.A., kand. tekhn. nauk; VDOVIN, R.M., inzh.

Using the running-down method for finding power losses for bubbling in reducing gears. Mashinostroenie no.3:111-115 (MIRA 16:7)

l. Kiyevskiy politekhnicheskiy institut. (Gearing)





VDOVIN, S.S.

Comparison of the parameters of various circuits of pulse power transformers. Radiotekhnika 20 no.9:72-76 S *65.

(MIRA 18:9)

1. Devstvitel*nvv chlen Nauchno-tekhnicheskogo obshchestva

l. Deystvitel nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni A.S. Popova.

VDOVIN, Vitaliy Aleksandrovich; ZAYONCHKOVSKIY, P.A., prof., otv.red.;

DMITRIES, Yn., red.isd-va; TELEGINA, T., tekhn.red.

[The Peasant Land Bank, 1883 - 1895] Krest'ianskii pozemel'nyi bank, 1883-1895 gg. Gosfinizdat, 1959. 106 p. (MIRA 12:12) (Agricultural credit)

ACCESSION NR: AR4015665

\$/0081/63/000/021/0343/0343

SOURCE: RZh. Khimiya, Abs. 21M122

AUTHOR: Teterin, P. K.; Vdovin, V. F.; Kozlov, G. B.

TITLE: Selection of glass fluxes for hot pressing of steels and alloys

CITED SOURCE: Steklo. Inform. materialy* Gos. n.-i. in-ta stekla, no. 1 (118), 1963, 57-61

TOPIC TAGS: glass flux, hot pressing glass flux, steel pressing flux, alloy pressing flux, flux identification, high temperature flux property

ABSTRACT: Universal glass fluxes for pressing steels at any temperature are not available. The authors suggest that the best flux to use in pressing steels and alloys for millable blanks is a glass which exhibits the properties of 185V glass at 1150C at the temperature of pressing in a container. Glass flux exhibiting the properties of glass 269 at 1150C at discharge temperature can be used when pressing steel and alloys for glass collars. To insure proper use of glass fluxes in hot pressing; each manufactured; lot of glass should be tagged with a rating plate in the form of a viscosity-temperature graph. Authors' summary.

Card 1/1 DATE ACQ: 09Dec63

SUB CODE: ML, MA

ENCL: 00

LUDENSKIY, I.M.; KOLPOVSKIY, N.M.; VDOVIN, V.F.; LAMIN, A.B.

Analysis and design of shapes for hard alloy drawing dies.

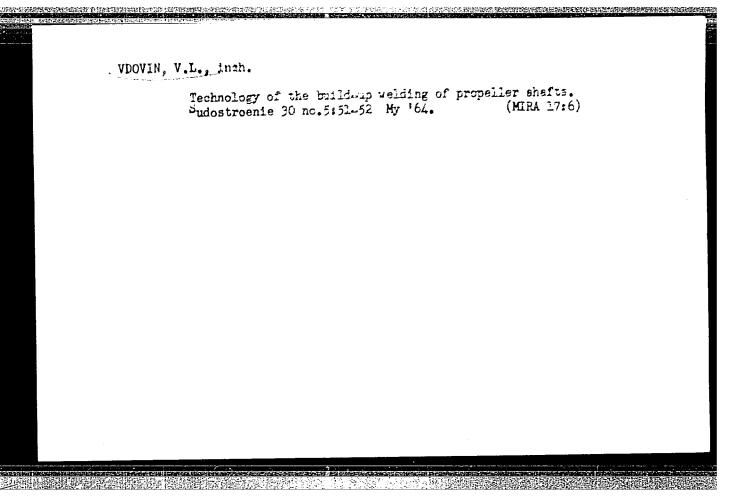
Stal' 22 no.12:1095-1099 D '62.

(MIRA 15:12)

1. Truboprokatnyy zavod im. Lenina.
(Drawing (Metalwork)—Equipment and supplies)

Submerged metal box used in mortar work. Rats. i izobr. predl. v
(NIRA 11:6)
stroi. no.5:64-65 '58.

1.Glavnyy mekhanik stroitel'nogo uchastka, Moskva.
(Mortar) (Building machinery)

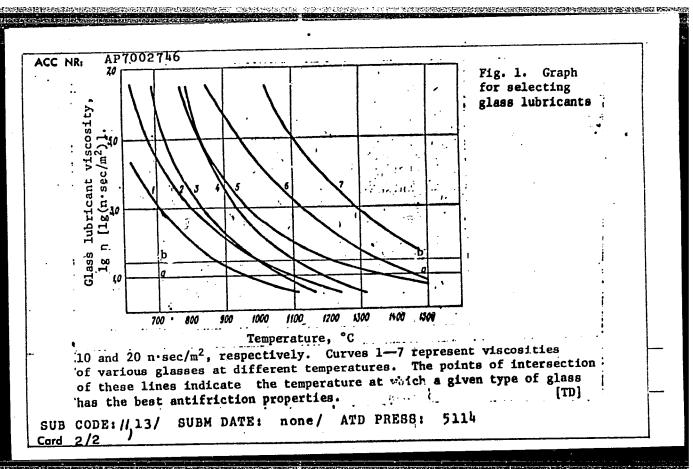


VDOVIN, Vasiliy Aleksandrovich; SEPPING, N.G., red.; KARAS', V.D.,

[Kirensk and Kirensk District] Kirensk i Kirenskii raion. Irkutsk, Irkutskoe knizhnoe izd-vo, 1959. 95 p. (MIRA 12:9) (Kirensk District)

SOURCE CODE: UR/0383/66/000/006/0022/0025 AP7002746 (N) ACC NRI Vdovin, V.F. (Candidate of technical sciences) AUTHOR: ORG: none TITLE: Selection of glass lubricants for hot extrusion SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost', no. 6, 1966, 22-25 TOPIC TAGS: metal extrusion, glass lubricant, metal extrusion mans ABSTRACT Several glass lubricants of medium and low viscosity, developed by the State Glass Institute, have been tested to determine the minimum viscosity which would ensure the lowest friction coefficient and the lowest extrusion force. The experiments were carried out on a vertical hydraulic press of 7850 km with 1Kh18N9T steel bars 32 and 25 mm in diameter extruded from round billets 77 mm in diameter and 180 mm long at 1100-1200C. It was found that the minimum extrusion force corresponds to a glass pad viscosity of 10 to 13 n·sec/m2. The optimal viscosity of glass powder was found to be 20 $n \cdot \sec/m^2$. It was also found that the viscosity of glass lubricant decreases with increased temperature of extrusion. On the basis of experiments, a graph for selecting glass lubricant was plotted (see Fig. 1). Lines a-a and b-b represent constant viscosities UDC: 621.984.5 $Card_{-}$

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859210017-7"



VDOVIN, V.L.; NEDOSPASOV, A.V.

Current instability of a positive column in a magnetic field.

Current instability of a positive column in a magnetic field.

(MIRA 15:8)

(Plasma (Ionized gases))

(Magnetic fields)

(Magnetic fields)

38230 8/057/62/032/007/004/013 B104/B102

スピーンコ// AUTHORS: Vdovin, V. L., and Nedospasov, A. V.

TITLE:

Current instability of a positive column in a

magnetic field

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 7, 1962, 817-822

TEXT: B. B. Kadomtsev and A. V. Nedospasov (J. Nucl. Energy, part C, Plasma Physica, 1, 230, 1960) showed that an instability of the form $f(r)\exp(i(m\psi+kz-\omega t))$ was established in the positive column of a gas discharge subjected to a sufficiently strong, longitudinal magnetic field, and that an azimuthal electric field was generated. A particle drift toward the wall is observed. The critical pressures for the appearance of these instabilities when discharges occur in He, H₂, Ne, Ar,

Hg are calculated in the present paper on the basis of Nedospasov's theory and are compared with experimental data. It is shown that the instabilities discovered by F. C. Hoh and B. Lehnert (Report IIIb, 25, on the Fourth Intern. Conf. on Ionisation Phenomena in Gases. Uppsala, 1959;

Card 1/2

S/057/62/032/007/004/013

Current instability of a positive ...

B104/B102

Physics of Fluids, 3, no. 4, 600, 1960) can be described by the method here suggested. There are 6 figures.

SUBMITTED: June 13, 1961

Card 2/2

L 11884-66 EWT (1)/ETC(F)/EPF(n)-2/EWG(m) LJP(c) AT SOURCE CODE: UR/0386/65/002/008/0369/0372

AUTHOR: Vdovin, V. L.

ORG: none

TITLE: Convective instability of a plasma which is not uniform along the magnetic field

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, Pis'ma v redaktsiyu. (Prilozheniye), v. 2, no. 8, 1965, 369-372

TOPIC TAGS: plasma instability, electron motion, plasma diffusion

21, 111 55

ARSTRACT: The author shows analytically that a weakly ionized plasma is subject to an inherent instability resulting from the presence of an axial density gradient, such as is produced in the case of free diffusion of charged particles from a source to the side walls of the chamber. The analysis is based on solving the differential equations for the electron velocity with ion diffusion neglected. The instability growth increment is calculated for two cases of practical interest-strong magnetic field and decaying plasma. The results show that the instability of a plasma which is not uniform along the magnetic field agrees well with the experimental data on the diffusion in a sufficiently broad range of experiments. Author is sincerely grateful to B. B. Kadomtsev for discussions and criticism, and to A. V. Nedopasov, V. D. Rusanov, and D. A. Frank-Kamenetskiy for valuable discussions. Orig. art. has: 3 formulas.

SUB CODE: 20/ SUBM DATE: 10Aug65/ ORIG REF: 002/ OTH REF: 001

Card 1/1

I, 22410-66 EWT(1)/EPF(n)-2/EWG(m) IJP(c) AT ACC NR: AP6007953 SOURCE CODE: UR/0089/66/020/002/0143/0149

AUTHORS: Vdovin, V. L.; Podgornyy, I. M.; Rusanov, V. D.

ORG: none

TITLE: Effect of plasma density on the results of spectroscopic determination of the electron temperature.

SOURCE: Atomnaya energiya, v. 20, no. 2, 1966, 148-149

TOPIC TAGS: plasma density, plasma electron temperature, spectral line, helium plasma, hydrogen plasma

ABSTRACT: In view of the fact that the values of the electron temperature determined from the excitation functions of valous helium lines are not uniquely defined, and are influenced by secondary processes such as the pressure of the neutral helium and the density of the plasma electrons, the authors have undertaken a comparison of the electron temperature as determined with two pairs of lines (4922,

4713, and 5047, 4713 Å) with one another, and also with the results

Card 1/3 UDC: 533.9

L 22410-66 ACC NR: AP6007953

of probe measurements. The experiments were made essentially in a helium plasma of high frequency discharge in a magnetic field, in a pressure interval 3 -- 10 μ . The generator frequency was 25 Mc, and the active power fed into the plasma reached 4 kw. The ratio of the spectral-line intensity was determined with a monochromator with spectral-line intensity was determined with a double electric probe that could be displaced radially in the chamber. The plasma density was determined with probe measurements using a Fabry-Perot interferometer operating at 8 mm wavelength. At electron densities $\sim\!10^{12}$ cm $^{-3}$ the temperatures obtained by optical measurements using the 4922 and 4713 Å pair exceed by a factor of more than two the results of the probe measurements. The results coincide at $\sim\!\!3$ x 10^{11} cm $^{-3}$. The temperature determined optically for the 5047 and 4713 Å lines is approximately half the temperature obtained with probe measurements at a density $n_{\rm e} > 6 \times 10^{11}$ cm $^{-3}$. At lower concentrations the results agree well. Measurements in hydrogen show

Card 2/3

L 22410-66
ACC NR: AP6007953

better agreement. It is concluded therefore that the method used to determine the electron temperature from the relative intensity of the helium lines, in the form used in many experiments, can lead to appreciable errors. Orig. art. has: 1 figure

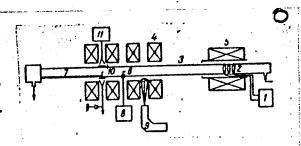
SUB CODE: 20/ SUBM DATE: OlSep65/ ORIG REF: OO2/ OTH REF: OO3

JUTHOR: Vdovin, V. L.; Rusanov, V. D.; Frank-Kamenetskiy, D. A. RG: none RITLE: Investigation of nonpotential drift waves in a stationary magnetoacoustic plasma 2/, 44/25 ROURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 199-45 ROPIC TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, 199-45 ROPIC TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, 199-45 ROPIC TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, 199-45 ROPIC TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, 199-45 ROPIC TAGS: magnetoactive plasma, magnetoacoustic noise, drift 199-45 ROPIC TAGS: magnetoacoustic noise of the investigation was to check on the theoretically presidented excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene-included ex	22192-66 EPF(n)-2/EWT(1)/ETC(f)	SOURCE CODE: UR/0056/66/050/001/0039/0045	1
COURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 50, no. 1, 1966, 199-45 ROPIC TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, mydrogen plasma, electron temperature, electron density, acoustic noise, drift mobility RESTRACT: The purpose of the investigation was to check on the theoretically predicted excitation of solenoidal (nompotential) drift fluctuations in an inhomogenesis plasma. To this end, the authors investigated magnetic noise in a setup in which the plasma is produced by the magnetoacoustic method in a glass tube situated in a fixed magnetic field (Fig. 1). The plasma flowed continuously along the axis into the measured volume and the magnetic field varied from 700 to 2500 oe. The measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³ measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³	UTHOR: Vdovin, V. L.; Rusanov, V. D	go	
ropic TAGS: magnetoactive plasma, magnetoacoustic effect, turbulent plasma, mydrogen plasma, electron temperature, electron density, acoustic noise, drift mobility ABSTRACT: The purpose of the investigation was to check on the theoretically predicted excitation of solenoidal (nonpotential) drift fluctuations in an inhomogeneous plasma. To this end, the authors investigated magnetic noise in a setup in which the plasma is produced by the magnetoacoustic method in a glass tube situated in a fixed magnetic field (Fig. 1). The plasma flowed continuously along the axis into the measured volume and the magnetic field varied from 700 to 2500 oe. The measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³ measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³	ITLE: Investigation of nonpotential	•	-
mobility ABSTRACT: The purpose of the investigation was to check on the theoretically pre- dicted excitation of solenoidal (nonpotential) drift fluctuations in an inhomogene- dicted excitation of this end, the authors investigated magnetic noise in a setup in the plasma. To this end, the authors investigated magnetic noise in a setup in which the plasma is produced by the magnetoacoustic method in a glass tube situated in a fixed magnetic field (Fig. 1). The plasma flowed continuously along the axis into the measured volume and the magnetic field varied from 700 to 2500 oe. The measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³ measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³	9-45		
ABSTRACT: The purpose of the investigation was to eneck on the theorem. dicted excitation of solenoidal (nonpotential) drift fluctuations in an inhomogeneous plasma. To this end, the authors investigated magnetic noise in a setup in which the plasma is produced by the magnetoacoustic method in a glass tube situated in a fixed magnetic field (Fig. 1). The plasma flowed continuously along the axis into the measured volume and the magnetic field varied from 700 to 2500 oe. The measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³ measurements were made on hydrogen plasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³	ydrogen plasma, electron temperature	e, electron density, acoustic noise, diffic	
	icted excitation of solenoidal (nongus plasma. To this end, the authors hich the plasma is produced by the man a fixed magnetic field (Fig. 1). Into the measured volume and the magnetic assurements were made on hydrogen produced by the magnetic field (Fig. 1).	potential) drift fluctuations in an inhomogenes investigated magnetic noise in a setup in magnetoacoustic method in a glass tube situated. The plasma flowed continuously along the axis netic field varied from 700 to 2500 ce. The lasma in the pressure range 1 x 10 ⁻³ 5 x 10 ⁻³ the discharge was 4 km. In this pressure	

L 22192-66

ACC NR: AP6004915

Fig. 1. Diagram of experimental apparatus: 1 - rf generator, 2 - rf coil, 3 - glass tube, 4 - main magnetic field coil, 5 - auxiliary magnetic field coil, 6 - radially movable electric probe, 7 - longitudinally movable electric probe, 8 - spectrum analyzer, 9 - monochromator, 10 - Fabry-Perot interferometer, 11 - signal generator.



center of the chamber was 5 x 10¹²--5 x 10¹² cm⁻³. Two diagnostic techniques were used in these experiments, determination of the electron density with a double electric probe and a microwave Fabry-Perot interferometer operating at 8 mm, and determination of the electron temperature by double electric probes and by an optical method. Measurements were made of the spatial distributions of the field components, of the dependence of the frequency on the magnetic field, and of the phase relationships of the oscillations. Two types of magnetic noise were observed. One was a strong solenoidal noise (approximately 0.05 oe) with fundamental frequency of the order of 100 kcs. Its spectrum had a high harmonic content, with most of the noise power concentrated in the harmonics at low pressures. The dependence of this noise on the plasma parameters was investigated and the results are discussed from

Card 2/3

L 22192-66

AP6004915 ACC NR:

the point of view of possible excitation of Alfven drift waves in the inhomogeneous plasma. In addition to the magnetic noise, intense potential electric fluctuations were observed, similar to those investigated in detail elsewhere (Yadernyy sintez [Nuclear Fusion], 1966, in press). It is deduced that the magnetic fluctuations observed in the present investigation are not a component of the potential fluctuation investigated earlier. The high frequency noise observed in the experiments (3--5 Mcs) is of magnetoaccustic nature, but its excitation is not yet clear. The authors thank Ye. K. Zavoyskiy and L. I. Rudakov for valuable comments and V. Sannikov for help in the experiments. Orig. art. has: 7 figures and 1 formula.

OTH REF: 003 ORIG REF: 005/ SUEM DATE: 02Aug65/ SUB CODE: 20/

Card 3/3 nst

CIA-RDP86-00513R001859210017-7" APPROVED FOR RELEASE: 08/31/2001

VDOVIN, V.M.

USBR/Chemistry - Synthesis

Card 1/1

Pub. 40 - 24/27

Authors

Title.

Petrov, A. D.; Sadykhzade, S. I.; and Vdovin, V. M.

.

Reaction of MgBr-vinylethinyl with triphenylhalide silanes

Periodical

Izv. AN SSSR. Otd. khim. nauk 1, 181-182, Jan-Feb 1955

Abstract

Brief report is presented on the established differences in the synthesis and reactivity of $(C_6H_5)_3$ SiCl and $(C_6H_5)_2$ CCl. The existing reactivity differences are explained by the different electron density of bonds with the Cl of the silicones and carbonium radicals as well as by the spatial hindrances in the formation of the ion silicone. Six references: 3 USA

and 3 USSR (1933-1954).

Institution :

Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted 1

July 22, 1954



PETROV, A.D.; MIRONOV, V.T.; VDOVIN, V.M.

Synthesis and properties of the ~-cyaneiseprepexysilanes. Izv. AN SSSR Otd.khim.nauk 86 no.6:1122-1124 My 155. (MLRA 9:4)

1. Institut erganicheskey khimii imeni N.D. Zelinskego Akademii nauk SSSR. (Silane)

CIA-RDP86-00513R001859210017-7 "APPROVED FOR RELEASE: 08/31/2001

Vdovin, V.m.

USSR/ Chemistry - Synthesis methods

Card 1/1

Pub. 22 -27/60

Authors

Petrov. A. D. Memb. Corresp., Acad. of Sc., USSR, Sadykh-Zade, S. I.;

and Vdovin, V. M.

Title

Synthesis and reactions of beta-trichlorosilylpropionitrile

Periodical

Dok. AN SSSR 100/4. 711-714. Feb 1. 1955

Abstract

A direct method is described for the synthesis of beta-trichlorosilylpropionitrile (Cl₃SiCH₂ • CH₂ • CN) from beta-chloropropionitrile passing through a Si-Cu alloy at 370°. The synthesis of this compound - an analogue of ethyltrichlorosilane with the nitrile group in beta-position relative to Si - has uncovered simple ways of obtaining its different poly - and monomeric derivatives. The reaction of beta-trichlorosilylpropionitrile with other silicon helide compounds is discussed. Six references: 3 USA, 2 USSR and 1 English (1945-1954).

Institution :

Submitted

July 10, 1954

VDEVIN, VIIII

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4464

Author : Petrov, A.D., Mironov, V.F., Vdovin, V.M., Sadykh-Zade,

S.I.

Inst : Academy of Sciences USSR INST. Organic Chem in N. D. Zelinskiy

Title : Cyanethylation of Silicochloroform

Orig Pub : Izv. AN SSSR, Ctd. khim. n., 1956, No 2, 256-257

Abstract : It is shown that on heating for 4 hours at 160-170° and

20 atmospheres in the presence of Raney nickel, $HSiCl_3$ is added to CH_2 = CHCN (I), to give $Cl_3SiCH_2CH_2CN$ (II)

(BP 79-820/10 mm, MP 32-330) with a yield of 12.2%. HSi(CH $_3$)Cl $_2$, under the same conditions, is added to $\underline{\text{I}}$,

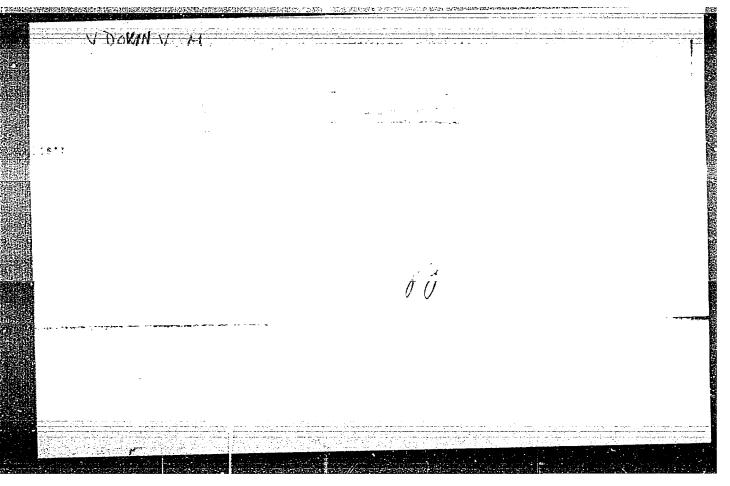
but pure Cl2(CH3)SiCH2CH2CN could not be isolated. On

interaction of II with $\ensuremath{\text{CH}_3\text{MgI}}$ was obtained

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VDOVIN, V. M., Cand Chem Sci -- (diss) "Synthesis and transformations of silicon-containing nitriles." Mos, 1957. 10 pp (Acad Sci USSR, Inst of Organic Chem im N. D. Zelinskiy), 110 copies (KL, 52-57, 103)

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VDOVIN V.W.

AUTHORS:

Petrov, A.D., Vdovin, V.M.

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TITLE:

Cyanogen Ethylation of Methyl- and Ethyl Dichlorosilanes (Tsianetilirovaniye metil- i etildikhlorsilanov)

PERIODICAL:

Izvestiya AN SSSR Otdeleriye Khimicheskikh Nauk, 1957, Nr 12, pr. 1490-1491 (USSR)

ABSTRACT:

In this paper the authors tell in what manner they obtained CH₂Si Cl₂(CH₂CN₂CN) and C₂H₅SiCl₂(CH₂CN). In the reaction the equivalent quantities of acrylonitrile and of the alkyl dichlorilmes were utilized (with the catalyst C $_5$ H₅ N) in the acetonitrile solution. The reaction was carried out in the autoclave at $_6$ C- $_1$ CC. The structure of the methyl- and alkyl-dichlorsilylpropionnitryles was confirmed by titration. With pyridine as a catalyst synthetization was carried out of: $_6$ -methyldichlorsilylpropionnitryle and $_6$ -alkyldichlorsilylpropionnitryle. There are 7 references, 2 of which are Slavic.

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