

L 6471-66

ACCESSION NR: AP5019814

source. The spatial distribution of the fast neutrons agrees within 15% with the calculations based on the beam analysis method. A study of the dependence of the fast-neutron flux on the source radius showed that with increasing distance from the source to the detector (z), the source diameter which can be regarded as infinite, decreases. The fast and intermediate neutrons exhibit approximately a dependence on z ($\sim z^3$), with the fraction of the intermediate neutrons becoming somewhat smaller with increasing z . "The authors thank O. I. Lavrenko for valuable advice and a discussion." Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 15Jul64

NR REF SOV: 002

ENCL: 00

OTHER: 006

SUB CODE: NP

SC

Card 2/2

MARKOV, V. P.
Vyiktedor Pavlovich
Chemistry - compounds

DECEASED

~~0-64~~
(1909-1963)

1964

GOLOVNYA, V.A., doktor khim. nauk; ELLEBT, G.V., kand. khim. nauk;
SHUBOCHKIN, L.K., kand. khim. nauk; SHCHELOKOV, R.N., kand.
khim. nauk; TSAPKINA, I.V., kand. khim. nauk; TRAGGETT, Ye.N.,
kand. khim. nauk; KALINOV, V.P., doktor khim. nau, [deceased];
AJIKHANOVA, Z.P.; DYATKIN, M.Ye., doktor khim. nauk; MIKHAYLOV,
Yu.N.; TSAPKIN, V.V., kand. khim. nauk; BOLOTOVA, G.T., kand. khim. nauk;
CHERNYAYEV, V.A., doktor khim. nauk; KORCHEMNAYA, Ye.K., red.

[Complex compounds of uranium] Kompleksnye soedineniia urana.
Moskva, Izd-vo "Nauka," 1964. 488 p. (MIRA 17:7)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy
khimii. 2. Laboratoriya khimii kompleksnykh soyedineniy ak-
tinidov Instituta obshchey i neorganicheskoy khimii AN SSSR
(for all except Korchemnaya).

MARKOV, V.P. [deceased]; GLUSHKOVA, M.A.; YERSHOVA, M.M.

Polymeric nature of ammonium dialuminum amidohexachloride.
Zhur. neorg. khim. 9 no.5:1144-1146 My '64. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.
Kurnakova AN SSSR.

DAKHKIL'GOVA, P.F.; PETRUSHKIN, A.A.; MARKOV, V.P., vetvrach

Infectious simusitis in turkeys. Ptitsevodstvo 9 no.7:32-33
Ji '59. (MIRA 12:10)

1. Pyatigorskaya mezhhoblastnaya veterinarnaya laboratoriya po
bor'be s boleznyami ptits.
(Turkeys—Diseases and pests) (Simusitis)

BOBKOV, Vasily Andreyevich; MARKOV, Vladimir Petrovich; GAKKEL', Ye.Ya.; dok.tekhn.
nauk,nauch.red.;VOROB'YEV, G.S., red. izd-va; GURDZHIYEVA, A.M., tekhn.
red.

[Railroad transportation in the seven-year plan] Zheleznodorozhnyi
transport v semiletнем plans. Leningrad, Ob-vo po raspr. polit. i
nauchn. znani RSFSR, 1961. 43 p. (MIRA 14:8)
(Railroads)

CHERNYAK, B.Ya.; ANDREYEV, V.I.; MARKOV, V.P.

Nonuniform mixture distribution in the cylinders of carburetor
engines. Avt. prom. no. 1:29-31 Ja '61. (MIRA 14:4)

1. Laboratoriya dvigateley AN SSSR.
(Automobiles--Engines--Combustion)

SAVICH, B.M.; POSOKHIN, Ye.G.; MALAKHOVA, L.S.; PETRUSHKIN, A.A.; MARKOV, V.P.;
KULIKOVA, V.N.; DAKHKIL'GOVA, P.F.; SHCHERBININ, P.G., *veterinary vrach*

Testing avirulent vaccine against pasteurellosis of poultry.

Veterinariia 39 no.12:32-37 D '62.

(MIRA 16:6)

1. Pyatigorskaya mezhoblastnaya veterinarnaya laboratoriya po bor'be
s boleznyami ptitsy (for all except Shcherbinin). 2. Pyatigorskiy
sovet narodnogo khozyaystva (for Shcherbinin).
(Chicken cholera—Preventive inoculation)

25(1)

SOV/125-60-1-1/18

AUTHORS:

Paton, B.Ye., Mandel'berg, S.L., Lashkevich, R.I.,
Markov, V.P.

TITLE:

On the Choice of a Production Method for Manufacturing Straight-Seam Large-Diameter Welded Pipes

PERIODICAL:

Avtomaticeskaya svarka, 1960, Nr 1, pp 2-14 (USSR)

ABSTRACT:

Different methods of manufacturing welded pipes used abroad (USA, Canada, England, France and East Germany) and in the USSR are reviewed. The Chelyabinskiy truboprokatnyy zavod (Chelyabinsk Pipe-Rolling Plant) produces pipes of hot-rolled "19G" steel, a metal of approximately the same composition as that used in France and West Germany. However, sheet thickness tolerances are not so strict as abroad, and the selection of metal by its mechanical properties is neglected. This explains why the mechanical properties of completed pipes differ widely, particularly those produced from the expansion of "19G". The Khartsyzskiy

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SOV/125-60-1-1/18

On the Choice of a Production Method for Manufacturing Straight-Seam Large-Diameter Welded Pipes

trubnyy zavod (Khartsvyzsk Pipe Plant) and the zavod im. Il'icha (Plant imeni Il'ich) use stamping presses and roller bending machines for bending pipe edges as is the practice at the Chelyabinsk plant. This technique varies from those used in the USA and at the German Mannesmann-Hoesch works where pipes are formed in three press operations. The authors recommend the use of this foreign technique in new Soviet plants. ✓
The pipe production-line at the Mannesmann-Hoesch plant turns out 30 pipe blanks per hour, while a similar line at the Chelyabinsk plant produces 60 to 70 in the same time. High welding rates of 120 - 140 m/hr for pipes with a 8 to 10 mm rim thickness have been achieved in the USSR by twin-arc welding. Such efficiency is due to the use of the special pumice-like "AN-60" flux. The order of welding the inside and outside pipe seams varies in different countries and plants. At the Chelyabinsk plant the outside seam is welded first.

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SOV/125-60-1-1/18

On the Choice of a Production Method for Manufacturing Straight-
Seam Large-Diameter Welded Pipes

On technical grounds, however, the authors recommend that inside welding should be completed first, provided that the new assembly-welding machines are used for this purpose. This new machine for the continuous assembly and welding of inner pipe seams (Figure 4) is being developed at the Elektrostal'skiy zavod tyazhelogo mashinostroyeniya (Elektrostal' Heavy Machine Building Plant). Brief general design information is given and the authors state that the first model of such a machine is under construction at the German "Mannesmann-Meer" works. For the expansion of pipes, the Chelyabinskiy plant uses expanders analogous to those in West Germany and France. The Chelyabinsk plant operates an inspection installation similar to the one in use at the German Phoenix Rheinrohr works for testing pipes by means of ultrasonic defectoscopes. It consists of a carriage with feelers on a hanger moving along the

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SOV/125-60-1-1/18

On the Choice of a Production Method for Manufacturing Straight-
Seam Large-Diameter Welded Pipes

pipe seam. Water is used to improve acoustic contact and the defects are indicated by a sound signal and a pulse visible on the defectoscope screen. There are 6 diagrams, 2 graphs, and 12 references, of which 4 are Soviet and 8 English. ✓

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektro-
svarki im. Ye.O. Patona AN USSR (Order of the Red
banner of Labor Institute of Electric Welding imeni
Ye.O. Paton AS UkrSSR) (Paton, Mandel'berg, Lashkevich);
Gipromez (Markov).

SUBMITTED: October 20, 1959

Card 4/4

TSELIKOV, A.I.; MARKOV, V.P., inzh.

Continuous pipe rolling and expanding mills in Italy. Stal' 20
no.6:539-541 Je '60. (MIA 14:2)

1. Chlon-korrespondent AN SSSR (for Tselikov).
(Italy--Pipe mills)

MATVEYEV, Yu.M.; MARKOV, V.P.

Basic trends in the expansion of the Soviet pipe industry.
Metallurg 6 no.11:25-27 N '61. (MIRA 14:11)

3. Gosudarstvennyy soyuznyy institut po proyektirovaniyu
metallurgicheskikh zavodov.
(Pipe mills)

MARKOV, V.P., inzh.

Main trends in the reorganization of pipe mills. Stal' 21
no.10:924-926 0 '61. (MIRA 14:10)

1. Gosudarstvennyy institut proyektirovaniya metallurgicheskikh
zavodov.

(Pipe mills)

AGRE, V.L.; AL'DIYEVA, K.N.; ANANYAN, V.V.; BERLIN, R.I. [deceased];
ISTOMIN, A.V.; KAGAN, I.A.; KRONGAUZ, N.D.; KULAKOV, A.M.;
MARKOV, V.P.; MATVEYEV, Yu.M.; NESVETAYEV, A.M.; OSIPOV, A.P.
[deceased]; POZIN, M.S.; PAYNSHTEYN, V.M.; SHAPIRO, B.S.;
SHEVCHENKO, N.A.; SHCHIRIN, V.N.; AL'SHEVSKIY, L.Ye., kand.
tekhn.nauk, red.; VLADIMIROV, Yu.V., red.izd-va; MIKHAYLOVA,
V.V., tekhn.red.

[Rolling and pipe mills] Prokatnoe i trubnoe proizvodstvo.
Pod red. L.E.Al'shevskogo i A.V.Istomina. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1962.
246 p. (MIRA 15:2)

1. Moscow. TSentral'nyy institut informatsii chernoy metallurgii.
(Rolling mills) (Pipe mills)

S/133/62/000/010/001/001
A054/A126

AUTHOR: Markov, V.P., Engineer

TITLE: All-Union meeting of the workers in the tube industry

PERIODICAL: Stal', no. 10, 1962, 937

TEXT: In April 1962, the Gosplan USSR, the Nauchno-tekhnicheskiy obshchestvo chernoy metallurgii (Scientific Research Society of Ferrous Metallurgy) and the Dnepropetrovskiy sovnarkhoz (Dnepropetrovsk Sovnarkhoz) held a meeting at Dnepropetrovsk and discussed the problems of the tube industry. At the plenary session the following papers were read: S.Ye. Vasilenko (Gosplan USSR): Perspective of the development of the Soviet tube industry and the tasks connected with the fulfillment of resolution of the XXII Meeting of the KPSS; Ya.Ye. Osady (UkrNITI): On the technical progress in the Soviet tube industry; Yu.M. Matveyeva and V.P. Markova (Gipromez): Major trends in designing the production of steel tubes; A.I. Tselikova and V.V. Nosalya (VNIMETMASH): Up-to-date tube rolling mill constructions in the USSR and abroad; A.B. Vernika (EZTM): Tube rolling mills of the Elektrostal'skiy zavod tyazhelogo mashinostroyeniya.

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All-union meeting of the workers in

S/133/62/000/010/001.001
A054/A126

Yeniya (Electrosteel Plant of Heavy Machinery); L.I. Spivakovskiy (UkrNITI): Economic problems in the tube industry; S.I. Borisova (UkrNITI): Up-to-date working methods of the innovators of the tube industry. More than 50 papers were read and about 100 comments were delivered altogether. The papers read and the comments made indicated that those present at the meeting could be divided into two groups. One group accepted the Gipromez and VNIIMETMASH views and recommended the application of the latest electrical welding methods in tube production, whereas the representatives of UkrNITI and EZTM recommended the continued use of rods in the production of mainly large-diameter tubes. The latter method is less expensive than producing tubes from sheets. No final decision was made on either of these methods.

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MARKOV, V.P.; NOSAL', V.V.

Main directions in the design of pipe mills. Stal' 22 no.4:334-
336 Ap '62. (MIRA 15:5)

1. Gosudarstvennyy soyuznyy institut po proyektirovaniyu metallurgi-
cheskikh zavodov i Vsesoyuznyy nauchno-issledovatel'skiy i
proyektno-konstruktorskiy institut metallurgicheskogo mashinostro-
yeniya.

(Pipe mills)

MARKOV, V.P., inzh.

All-Union conference of pipe mill workers. *Stal'* 22 no.10:937
0'62. (MIRA 15:10;

(Pipe mills)

MARKOV, Vladimir, inzh.

Concrete tubular canals. Khidrotekh i melior 8 no.4:111 '63.

SPIVAKOVSKIY, L.I., kand. ekonom. nauk; MARKOV, V.P., inzh.; YAKHKIND, A.Ya.,
inzh.

Analysis of technical and economic indices of various methods of producing
steel pipe. Stal' 25 no.7:634-640 JI '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko-tekhnologicheskii
institut trubnoy promyshlennosti i Gosudarstvennyy soyuznyy institut po
proyektirovaniyu metallurgicheskikh zavodov.

MARKOV, V. R.

Cand Tech Sci - (diss) "Study of the reaction of a wheeled tractor with soil on slopes under conditions of the Stavropol'skiy Kray with the aid of isotopes." Leningrad, 1961. 26 pp; with diagrams; (Ministry of Agriculture RSFSR, Leningrad Agri Inst, Chair of "Tractors and Motor Vehicles"); 150 copies; price not given; (KL, 10-61 sup, 216)

Minerko U.S.

Experimental study of the angular distribution and polarization of the optical emission of electrons in a synchrotron.
 P. A. Korolev, V. B. Markov, R. M. Akimov, and O. P. Kulikov (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 110, 542-4 (1958). The exptl. data of the angular distribution and polarization of the optical emission of electrons was carried out to check the theoretical conclusions drawn earlier (Ivanenko and Sokolova, *Classical Theory of Fields*, 1949). The exptl. values are in agreement with those predicted theoretically.
 J. Rovtat Leach

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Distr: 4E3d

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KOROLEV, F.A.; AKIMOV, Ye.M. [deceased]; MARKOV, V.S.; KULIKOV, O.P.

Experimental investigation of optical emission by electrons in
a synchrotron with an energy of up to 270 Mev. Fiz.sbor. no.4:
24-28 '58. (MIRA 12:5)

1. Fizicheskiy fakul'tet Moskovskogo ordena Lenina i ordena
Trudovogo Krasnogo Znameni gosudarstvennogo universiteta
imeni M.V.Lomonosova.
(Electrons) (Synchrotron)

ARNOL'D, Leonid Vladimirovich, prof.; MARKOV, Viktor Sergeyevich; SELIVERSTOV, Vladimir Mikhaylovich; FEDORKO, Petr Petrovich; AKIMOV, P.P., dotsent, retsenzent; GOLOVANOVA, N.V., red.; VOLCHOK, K.M., tekhn.red.

[Collection of problems on technical thermodynamics and heat transfer] Sbornik zadach po tekhnicheskoi termodinamike i teploperedache. Pod obshchei red. L.V.Arnol'da. Leningrad, Izd-vo "Rechnoi transport," Leningr.otd-nie, 1960. 292 p.

(MIRA 13:5)

(Thermodynamics)

(Heat--Transmission)

S/129/61/000/002/011/014
E193/E483

AUTHORS: Gel'fand, K.M. and Markov, V.S.

TITLE: Mechanical Properties of Constructional Steels in the Direction Normal to the Direction of Rolling

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1961, No.2, pp.53-55

TEXT: The object of a statistical study of the mechanical properties of several types of constructional steel, (30XН2МФА) (30KhN2MFA), 30XН3А (30KhN3A), 30XГСА (30KhGSA), 40XНМА (40KhNMA) and "50") described in the present paper was to show that the ГОСТ (GOST) specification for these steels should cover also their properties in the direction normal to the direction of rolling. Having collected, tabulated and studied data on U.T.S. (σ_b), reduction in area (ψ), elongation (δ), impact strength (a_k), grain size of the non-metallic inclusions and type of fracture of 8 to 15 melts of each of the types of steel listed above, the present authors have reached the following conclusions. (1) The mechanical properties, characterizing plasticity and toughness of steel in the transverse direction, are low and may be widely different in the specimens of the same composition and Card 1/3

S/129/61/000/002/011/014
E193/E483

Mechanical Properties of Constructional Steels in the Direction
Normal to the Direction of Rolling

subjected to the same heat treatment. Thus, for instance, a_k of steel 30KhGSA varied between 0.8 and 3.6 kgm/cm², the $a_k(\text{transverse})/a_k(\text{longitudinal})$ ratio amounting to 10 to 12%; the magnitude of ψ and δ (in the transverse direction) of the same steel varied between 10 and 42% for the former and 2.3 and 12% for the latter property. The proportion of melts displaying low mechanical properties in the transverse direction varied from steel to steel; in the case of steels 30KhGSA, 40KhNMA and "50", about 70% of melts have rough appearance of the surface of fracture and low mechanical properties in the transverse direction ($a_k \leq 2$ kgm/cm², $\psi < 15\%$, $\delta < 5\%$). In the case of steels 30KhN2MFA and 30KhN3A, the proportion of melts with so low mechanical properties in the transverse direction amounts only to 30%. At the same time, all the steels studied meet the GOST specifications in respect to their mechanical properties in the longitudinal direction. Steels displaying low strength and plasticity in the transverse direction have typical rough, laminated, "woody" fracture.

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S/129/61/000/002/011/014
E193/E483

Mechanical Properties of Constructional Steels in the Direction
Normal to the Direction of Rolling

(2) Statistical analysis of the results of a large number of tests, service conditions and causes of failure of various components indicate clearly that the useful life of many items of industrial application could be increased by tightening up the GOST specification in respect to the mechanical properties (in the transverse direction) of several types of steel. There is 1 table.

Card 3/3

MARKOV, V.S., kandidat tekhnicheskikh nauk.

Gas-analysis apparatus of Soviet manufacture and their possible
use on river fleet steamers. Trudy GIIVT 10:178-198 '51.

(MIRA 10:1)

(Gases--Analysis)

MARKOV, V.S., kandidat tekhnicheskikh nauk.

Problem of more accurate methods of gas analysis in testing
steam boilers. Trudy GIIVT no.12:40-67 '54. (MLRA 10:2)

(Boilers--Testing) (Gases--Analysis)

MARKOV, V.S., kandidat tekhnicheskikh nauk, dotsent.

Mechanization of furnace processes in marine boiler installations.
Trudy GIIVT no.13:108-119 '55. (MLRA 10:1)
(Boilers, Marine)

Max Kor, V

✓ Performance of the GAX-51 engine with gasoline-benzene
 mixtures. V. Andreev, V. Markov, P. Tarasova, and
 V. Tol'skiy. *Trudy Akad. Nauk SSSR, Ser. Inzh. Nauk*,
 V. M. Molotova: 1956, No. 18, 240-55. Gasoline contg.
 15% by vol. of benzene can be used at -40° without freez-
 ing. Lab. and road tests were made with 3 blends, contg.
 resp., 7, 15, and 25% by vol. of benzene. The engine was
 operated at 1500, 1600, and 2400 r.p.m., and various condi-
 tions affecting the power output of the engine and economy
 of operation were studied. The effect of spark advance,
 throttle setting, and other variables was not studied in
 detail, and the setting suitable for the best performance with
 gasoline was used.

Free

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MARKOV, V.S., dots.

Increasing the effectiveness of steam vessels. *Rech.transp.*
18 no.10:39-40 0 '59. (MIRA 13:2)
(Steamboats)

MARKOV, V.S.

PHASE I BOOK EXPLOITATION

SOV/4310

Arnol'd, Leonid Vladimirovich, Viktor Sergeyeovich Markov, Vladimir Mikhaylovich Seliverstov, and Petr Petrovich Fedorko

Sbornik zadach po tekhnicheskoy termodinamike i teploperedache (Collection of Problems on Applied Thermodynamics and Heat Transfer) Leningrad, Izd-vo "Rechnoy transport," Leningradskoye otd-niye, 1960. 292 p. Errata slip inserted. 3,000 copies printed.

General Ed.: L.V. Arnol'd, Professor; Reviewer: P.P. Akimov, Docent; Ed.: N.V. Golovanov; Tech. Ed.: K.M. Volchok.

PURPOSE: This book is intended for students in water transportation institutions taking courses in thermodynamics and heat transfer. It conforms with the program of the Leningrad Institute of Water Transportation.

COVERAGE: The book consists of 501 problems on thermodynamics and heat transfer. It is subdivided into 16 sections. Each section gives a theoretical introduction, formulas, and one or more example of calculations. Twenty-three appendixes

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Collection of Problems (Cont.)

SOV/4310

provide tables and graphs of thermodynamic values. Chs. 1, 4, 11, 14, and 15 were written by V.S. Markov; Chs. 3, 5, 10, 12, and 13 were written by V.M. Seliverstov, and Chs. 2, 6, 8, 9, and 16 were written by P.P. Fedorko; Ch. 7 jointly by V.S. Markov and V.M. Seliverstov. Chs. 4, 7, 11, 12, 13, 14, and 15 were written with the cooperation of L.V. Arnol'd. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

PART I. APPLIED THERMODYNAMICS

Sec. 1. Parameters of the Thermodynamic State of a Substance	3
Sec. 2. Fundamental Laws for Ideal Gases	7
Sec. 3. Mixtures of Ideal Gases	14
Sec. 4. Specific Heat of Ideal Gases	22
Sec. 5. First Law of Thermodynamics	29
Sec. 6. Thermodynamic Processes in Ideal Gases	35

Card ~~2/6~~

ZAKHAROV, Arkadiy Mikhaylovich, kand. tekhn.nauk; MAIKOV, Viktor
Sergeyevich, dots., kand. tekhn. nauk; YUDITSKIY, F.L.,
dots., kand. tekhn.nauk, rezensent; KYASHNIKOV, N.V., red.;
KAN, P.M., red.izd-va; BODROVA, V.A., tekhn. red.

[Steam power plants on river-going vessels and an increase in
the efficiency of their operation]Parosilovye ustanovki rech-
nykh sudov i povyshenie effektivnosti ikh raboty. Moskva, Izd-
vo "Rechnoi transport," 1961. 207 p. (MIRA 15:10)
(Boilers, Marine) (Steam turbines, Marine)

SIZYKH, Vasilii Afanas'yevich; ARNOL'D, L.V., retsenzeng; SMANTSER, A.I., retsenezent; MARKOV, V.S., red.; KAN, P.M., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Automatically controlled auxiliary marine boiler units]
Avtomatizirovannye sudovye vspomogatel'nye kotloagregaty.
Moskva, Izd-vo "Rechnoi transport," 1963. 133 p.
(MIRA 16:5)

(Boilers, Marine) (Automatic control)

ACC NR: AP6033057 (N) SOURCE CODE: UR/0126/05/02.102.103.1

AUTHOR: Markov, V. S.; Pak, N. G.; Prokopenko, V. S.; Vasil'yev, G. S.

ORG: Krasnoyarsk Pedagogical Institute (Krasnoyarskiy pedinstitut)

TITLE: Anisotropy dispersion, thickness and coercive force of ferromagnetic films

SOURCE: Fizika i metallov i metallovedeniye, v. 22, no. 2, 1966, 312-313

TOPIC TAGS: ferromagnetic film, magnetic coercive force, magnetic anisotropy, magnetic property

ABSTRACT: The authors study the interaction between H_c and the angular macrodispersions of anisotropy for alloy films containing 80% Ni, 17% Fe and 3% Mo, 200-900 Å thick. The films were produced by condensation in a vacuum on a glass substrate using tungsten wire vaporizers. The magnetic characteristics of the components and of the entire film were determined by the oscillographic local hysteresis loop method. The results show that angular macrodispersion of anisotropy may contribute to the coercive force of the films. The lack of macrodispersion control could account for the variation in experimental relationships between H_c and the thickness of the ferromagnetic film. Orig. art. has: 2 figures, 1 table.

SUB CODE: 20/ SUBM DATE: 07Sep65/ OTH REF: 003

UDC: 539.216.2:538.248

Card 1/1

L 15370-66 EWT(1)/EMP(e)/EWT(m)/T/EMP(t)/EMP(b) IJP(c) JD/GG

ACC NR: AP8604471

SOURCE CODE: UR/0048/66/030/001/0071/0074

AUTHOR: Markov, V.S.; Prokopenko, V.S.; Pak, M.G.; Vasil'yev, G.G.

ORG: Krasnoyarsk State Pedagogical Institute (Krasnoyarskiy gosudarstvennyy pedagogicheskiy institut)

TITLE: Oscilloscope display of the hysteresis loops of separate parts of a film
Transactions of the Second All-Union Symposium on the Physics of Thin Ferromagnetic Films held at Irkutsk 10 July to 15 July, 1964

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.30, no. 1, 1966, 71-74

TOPIC TAGS: ferromagnetic film, magnetic thin film, Faraday effect, Kerr effect, hysteresis loop, magnetic anisotropy,

ABSTRACT: Equipment employing the Faraday or Kerr effect is described with which one can display on an oscilloscope screen the hysteresis loop of a small region of a ferromagnetic film. In the authors' apparatus a spot of polarized light from several millimeters to several tens of microns in diameter was focused on the investigated film and the reflected or transmitted light (depending on the thickness of the film) was collected, passed through an analyzer, and focused on a photomultiplier. The signal from the photomultiplier was applied to the vertical axis of an oscilloscope, to the horizontal axis of which there was applied a signal proportional to the magnetizing field. A number of exploratory experiments were performed and hysteresis loops are

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ACC NR: AP6004471

presented. By recording both the longitudinal and transverse hysteresis loops with different orientations of the film it is possible to map the direction of the anisotropy axis in different parts of the film. The accuracy with which the direction of the local anisotropy axis can be determined is at least great as can be obtained with the technique of D.O. Smith (J. Appl. Phys., 32, 70 (1961)), which requires observation of the domain structure. (Orig. art. has: 8 figures.

SUB CODE: 20

SUBM DATE: 00

ORIG. REF: 001

OTH REF: 001

TS
2/2

MARKOV, M. V.

"Elements of Analysis of the Switching Process of a Tow-Making Machine."
Sub 22 Nov 51, Moscow Textile Inst

Dissertations presented for science and engineering degrees in
Moscow during 1951.

EC: No. 40, 6 May 55

MARKOV, Valentin Vasil'yevich; RAZUVAYEV, A.A. redsentent ; ARHO, A.A..
redsentent; SOKOL'SKIY, I.P.. redaktor; MEDVEDEV, L.Ya..
tekhnicheskii redaktor

[Primary processing of bast crops] Pervichnaya obrabotka lubianekh
kul'tur. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi
promyshl. SSSR, 1956. 291 p. (MIRA 10:2)
(Bast)

MARKOV, V.V., dots.

Method of determining the efficiency of the scutching process.
Sbor. nauch.-issl. rab. TPI no.4:70-74 '57. (MIRA 11:9)
(Textile machinery) (Bast)

MARKOV, V.V.

Increasing the productivity of warm water retteries in jute and
ambari hemp mills. Tekst. prom. 18 no.3:14-16 Mr '58. (MIRA 11:3)
(Retting) (Jute)

MARKOV, Valentin Vasil'yevich; SUSLOV, Nikolay Nikolayevich; TRIFONOV, Vadim Georgiyevich; ANDREYEV, V.V., retsenzent; ARIFKHANOV, U.Kh., retsenzent; ARNO, A.A., retsenzent; DERBENEV, S.I., retsenzent; SHUSHKIN, A.A., retsenzent; MAKEYEV, V.S., nauchnyy red.; DUKHOVNIY, F.N., red.; SHAPENKOVA, T.A., tekhn. red.

[Primary processing of bast fibers] Pervichnaia obrabotka biarykh volokon. Moskva, Gos. izd-vo "Rostekhzdat," 1961. (MIRA 15:4)

463 p.

(Textile fibers)

(Textile machinery)

MARKOV, V.V.

Selecting the optimum conditions for the mechanical processing of
retted kenaf straw. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.5:
60-65 '61. (MIRA 14:11)

1. Kostromskoy tekstil'nyy institut.
(Ambary hemp)

MARKOV, Vladimir Vasil'yevich; ALEKSANDROVA, A.A., red.; OSHEROVICH, L.G.,
retsensent; KALABEKOV, B.A., retsensent; ALEKSANDROVA, A.A., red.;
BELYAYEVA, N.V., tekhn.red.
[radio relay lines with a limited number of channels] Malo-
kanal'nye radioreleinye linii svyazi. Moskva, "Sovetskoe
radio," 1963. 704 p. (MIRA 17:2)

S/190/63/005/004/018/020
B101/B220

AUTHORS: Tutorskiy, I. A., Markov, V. V., Pomina, L. P.,
Belyanin, V. B., Dogadkin, B. A.

TITLE: Cyclization of diene polymers. I. Investigation of the
cyclization of natural rubber dissolved in phenol

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, 1963, 593-597

TEXT: Mixtures of 100 parts by weight non-plasticized natural rubber, 165 phenol and 7.50 P₂O₅ were heated at 180°C and the changes of intrinsic viscosity and degree of unsaturation owing to cyclization of the rubber were studied along with the UV and IR spectra. Results: (1) The intrinsic viscosity decreases rapidly within the first 5 hr, but afterwards only slowly. (2) The rate at which rubber dissolves in phenol is much higher in the presence of P₂O₅ than in pure phenol. (3) The yield of acetic acid in the oxidation of rubber with chromic acid depends on the time of cyclization. It decreases very rapidly within the first 4 hr, but then remains constant. (4) The degree of unsaturation is after cyclization only about 25% of the degree of unsaturation of the initial
Card 1/2

S/190/63/005/004/018/020
B101/B220

Cyclization of diene ...

rubber. (5) The 275 - 280 μ band with 278 μ maximum in the UV spectrum as well as the 690 and 740 cm^{-1} bands and the bands in the 1500 - 1600 cm^{-1} region in the IR spectrum prove that the cyclorubber contains bound phenol. There are 6 figures.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: October 24, 1961

Card 2/2

GUSYATINSKIY, Igor' Aleksandrovich; RYZHKOV, Yevgeniy Vasil'yevich;
NEMIROVSKIY, Aleksandr Solomonovich; ~~MARKOV, S.V.~~
retsenzent; LEVIN, G.A., retsenzent [deceased]; ERDICH,
S.V., otv. red.; NOSOVA, M.N., red.

[radio relay communication lines] Radiorelezhnye lini svyazi. Moskva, Sviyaz', 1965. 542 p. (MIRA 19:1)

134160-85 EPP(c)/... EPP(n)-2/ENG(3)/EWA(h)/EWP(3)/EWT(m)/EWA(1) PC-4/PR-4/
Pa-4/PeB GO/RM 6/0286/65/000/005/0129/0129 42 B

ACCESSION NR: AP5008234

AUTHOR: Dogadkin, B. A.; Tutorskiy, I. A.; Markov, V. V.; Gol'danskiy, V. I.;
Yegorov, Ye. V.; Rapoport, V. B.; Shumanov, I. A.

TITLE: A method for the preparation of radiation-resistant coatings. Class 39,
No. 151801

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 129

TOPIC TAGS: polymer coating, radiation damage, polymer solution, polyisoprene
rubber

ABSTRACT: This Author Certificate describes the use of a 40% solution of cyclized
polyisoprene rubber in xylene and white spirit for producing radiation-resistant
coatings. [VS]

ASSOCIATION: none

SUBMITTED: 30Oct61

NO. REF. SOV: 000

Card 1/1

ENCL: 00

OTHER: 000

SUB CODE: MI, CB

ATD PRESS: 3212

EYDUS, G.S.; MARKOV, V.V.; VENEDIKTOV, M.D.

Asynchronous address communication systems; a survey.
Probl. pered. inform. 1 no.4:3-19 '65.

(MIRA 18:12)

1. Submitted May 18, 1965.

ACC NR: AP6033761

SOURCE CODE: UR/0128/66/000/008/0046/0047

AUTHOR: Ryzhikov, A. A. (Doctor of technical sciences); Markov, V. V. (Engineer)

ORG: none

TITLE: Properties of aluminum alloy castings obtained by liquid metal forging

SOURCE: Liteynoye proizvodstvo, no. 8, 1966, 46-47

TOPIC TAGS: ~~metal forging~~ metal forging, aluminum alloy forging, LIQUID METAL, SOLID MECHANICAL PROPERTY

ABSTRACT: Aluminum-alloy (chemical composition similar to that of Al4) articles 80 mm in outside diameter, 50 mm in inside diameter, and 85 mm long were made by liquid metal forging at forging pressures 600-1600 kg/cm². It was found that the strength, ductility, and density of the castings improved with increasing forging pressure. For instance, the strength of conventional chill castings was 13.52 kg/mm² and the elongation was 4.2%, while the strength of articles forged with a pressure of 1600 kg/cm² was 20.72 kg/cm² and the elongation was 15.0%. Articles forged with a pressure of 600 kg/cm² developed leakage when subjected to hydraulic pressure of 600 atm, while those forged with a pressure of 1600 kg/cm² did not show any leakage when subjected to 125 atm of hydraulic pressure. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 11, 13/ SUBM DATE: none/

UDC: 621.74.043.2:669715

Card 1/1

I-29998-65 EPA(s)-2/EWT(m)/EPP(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4/Pt-10 WW/RM
ACCESSION NR: AP4047677 S/0303/64/000/005/0019/0023

AUTHOR: Markov, V. V.; Tutorakly, I. A.

43
42
B

TITLE: The production and use of cyclic isomers of polyisoprene (cyclo-rubbers)

SOURCE: Lakokrascchny*ye materialy* 1 lkh primaneniye, no. 5, 1964, 19-23

TOPIC TAGS: cyclic isomer, polyisoprene, cyclo-rubber, cyclization, natural rubber, synthetic rubber, elastomer, protonization, deprotonization, polymerization

ABSTRACT: The literature of the production methods and properties of cyclo-rubber and its use in the colored lacquer industry is reviewed. It is pointed out that the properties of the cyclization products depend on the production methods, original raw material, catalyst and the reaction conditions. A number of cyclization methods for natural and synthetic rubbers are described. The cyclization of natural rubber in solutions is of significant importance. Solvent selection has a strong effect on the cyclization speed and on the properties of the final product. Possible catalysts include concentrated sulfuric acid, organic sulfo-acids, amphoteric metal halides, hydrogen chloride, anhydrous metal halides, stannic acid, hydrogen fluoride and others. The mechanization of rubber cyclization is discussed in detail on the basis of the theories of Gordon and Van Veersen. Several other

Card 1/2

L 29998-65
ACCESSION NR: AP4047877

mechanism theories are presented and compared. Finally, the uses of cyolo-rubber are listed and references are made to specific isomers and their industrial applications. Impregnation of paper, color printing and anti-corrosion coatings are some of the current uses. Orig. art. has: 8 structural formulas. 15

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 007

OTHER: 027

Card 2/2

LEYTMAN, Ya.Z.; MARKOV, V.V.

New methods for the analysis of the soda-potash solution used for sulfur removal. Koks i khim. no.7:50-52 '65.

(MIRA 18:8)

1. KommunarSKIY koksokhimiCheskiy zavod.

VIREZUB, A.I.; GINZBERG, M.A.; NOVIKOV, N.A.; TVERIKIN, V.T.; KUPINSKIY, R.V.;
MARKOV, V.V.; NIVIN, P.I.

Performance of the grid for continuous ~~decoration~~ of viscose. Krim.
volokn. no.1360-84 (MIRA 18:4)

1. Vsesoyuznyy naukoissledovatel'skiy institut iskusstvennogo
volokna (for Virezub, Ginzberg, Novikov, Tverikin). 2. Gosudarstven-
nyy institut po proektirovaniyu predpriyatiy iskusstvennogo volokna
(for Kupinskiy). 3. Kalinitskiy kombinat (for Markov, Nivin).

TUTORSKIY, I.A.; MARKOV, V.V.; FEDYUK, O.I.; VITSMUDEL', M.B.; DOGADKIN, B.A.

Kinetics of the cyclization of natural and synthetic polyisoprenes induced by phosphorus pentoxide. Vysokom. soed. 7 no.6:953-957 Je '65. (MIRA 18:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

MARKOV, V.YA.

IVANOVA, Yevgeniya Aleksandrovna; MARKOV, L.Ya.; SMOL'YANINOVA, N.K.;
KAZAKOVA, Ye.D., red.; VESKOVA, Ye.I., tekhn.red.

[Berries for private garden plots] IAgodnye kul'tury v priusadebnom
sadu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 248 p. (Bibliotechka
po sadovodstvu, no.13) (MIRA 10:12)

(Berries)

S/021/62/000/004/010/012
D299/D302

8.1100
AUTHORS:

Hladyshevs'kyi, Ye.I., Markov, V.Ya., and Kurz'ma, Yu.B.

TITLE:

New ternary compounds with $Mg_6Cu_{16}Si_7$ -type structure

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi, no. 4, 1962, 481-483

TEXT: A number of ternary systems of transition metals with Si and Ge, as well as the systems Li-Ni-Si and Li-Cu-Si, were investigated by the method of X-ray structural analysis. The existence of 16 new ternary compounds with $Mg_6Cu_{16}Si_7$ structure, was established. The alloys were prepared by melting pure metals in crucibles of aluminum oxide, in a Tammann furnace (hydrogen- or argon atmosphere). The X-ray structural analysis was carried out in Debye- and Preston chambers. The $Mg_6Cu_{16}Si_7$ type structure (the space group $Fm\bar{3}m-O^5$) belongs to a class of structures with large coordination-number. The lattice constant of the alloy $Sc_6Ni_{16}Si_7$ (of face-centered cubic structure) was found to be 11.46 Å. The symmetry of the lattice, the

Card 1/3

S/021/62/000/004/010/012
D299/D302

New ternary compounds with ...

composition of the alloy, and the lattice constant, are characteristic of structures of $Mg_6Cu_{16}Si_7$ -type. This shows that a ternary compound of such structure is formed in the system Sc-Ni-Si. Isostructural ternary compounds were also found in the systems R-Ni-Ge (R = Sc, Ti, Zr, Nb, Hf, Ta), R-Co-Si (R = Ti, Zr, Nb, Hf, Ta), R-Co-Ge (R = Zr, Nb, Hf, Ta), with the composition $R_6X'_{16}X''_7$ (where $X' = Ni, Co; X'' = Si, Ge$). The composition and the lattice constants of the compounds are listed in a table. Investigation of these compounds, it still continuing. In view of the composition of the compounds, it can be assumed that the atoms of the R-component (R = Sc, Ti, Zr, Nb, Hf, Ta) occupy the position of Mg in structures of $Mg_6Cu_{16}Si_7$ -type, (coordination number 7). If the atomic radius of the R-component is larger than 1.64 Å, no compounds of $Mg_6Cu_{16}Si_7$ -structure, are formed. In the systems R-Ni-Si (R = Y, La, Ce), R-Ni-Ge (R = V, Cr, Y, Mo, La, W, Re), Sc-Co-Si, Sc-Co-Ge, Ti-Co-Ge, Li-Ni-Si and Li-Cu-Si, no ternary compounds of $Mg_6Cu_{16}Si_7$ -type were found. There are 1 table and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. ✓

Card 2/3

New ternary compounds with ...

ASSOCIATION: L'vivs'kyy derzhavnyy universytet (L'viv State University)

S/021/62/000/004/010/012
D299/D302

PRESENTED: by Academician I.M. Frantsevych, AS URSSR

SUBMITTED: August 12, 1961

Card 3/3

S/070/62/007/001/015/022
E132/E460

AUTHORS Teslyuk, M.Yu., ^cMarkiv, V.Ya.

TITLE New ternary Laves phases in systems containing Zn
Ga, In, Ge

PERIODICAL Kristallografiya, v.7, no.1, 1962, 128

TEXT. The Laves structures MgZn₂, MgCu₂ and MgNi₂ are denoted by λ₁, λ₂ and λ₃ respectively and the corresponding superstructures by λ₁⁺. By X-ray analysis the following structures of these types have been found (their unit cell sizes are given)
MgNi_{1.25}Ga_{0.75} (λ₁), MgNi_{1.6}Ga_{0.4} (λ₂); MgNi_{1.6}Ge_{0.4} (λ₂)
MnNi_{1.25}Ge_{0.75} (λ₁), MnNi_{1.5}Ge_{0.5} (λ₂); MnCuZn (λ₂)
CdCu_{1.5}Ga_{0.5} (λ₂), CdCuIn (λ₂), CdCu_{1.5}Ge_{0.5} (λ₂)

Mg₆Ni₁₆Ge₇ has the T-phase structure and Ni₂MgIn the H-phase structure. Ye.I.Gladyshevskiy and Yu.B.Kuz'ma participated in some of the work. There is 1 table.

ASSOCIATION. Lvovskiy gosudarstvennyy universitet im I Franko (Lvov State University imeni I. Franko)

SUBMITTED: April 10, 1961
Card 1/1

S/021/62/000/010/007/008
D251/D307AUTHORS: Markiv, V.Ya., Hladyshevs'kyi, Ye.I., and Kuz'ma, Yu.B.TITLE: New ternary compounds with a structure of the type
 $MnCu_2Al$ PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 10,
1962, 1329 - 1331

TEXT: The authors discuss ternary systems A-B-C, where A and B are transition metals and C are elements of the IIIB, IVB and VB groups of the periodic table. The aim of the present work is to investigate analogous systems in which C is gallium. Compounds of this type are found, where A = Ti, V and B = Fe, Co, Ni. The structure of the compounds resembles that of $MnCu_2Al$, and the lattice constants are given in tabular form. The space group is $Fm_3m - O_h^5$. It is shown that in the systems Ta(Nb, Mo) - Fe(Co, Ni) - Ga, and Sc(Zr) - Ni - Ga, similar compounds do not exist. The results are obtained using x-ray methods on alloys of metals of purity not less than 99.9 %, fused in an atmosphere of inert gas at 600°C. There are 3 tables.

Card 1/2

New ternary compounds with a ...

S/021/62/000/G10/007/008
D251/D307

ASSOCIATION: L'vivs'kyi derzhavnyi universytet (L'viv State University)

PRESENTED: by I.M. Frantsevykh, Academician

SUBMITTED: January 15, 1962



Card 2/2

MARKIV, V. Ya.

S/021/62/000/012/015/018
D205/D307

AUTHORS: Markiv, V.Ya. and Teslyuk, M.Yu.

TITLE: Crystalline structure of the ternary compounds $TiCo_2Al$, $MgNi_2In$, $TiNi_2In$, and $TiCu_2In$

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 12, 1962, 1607-1609

TEXT: The alloys were prepared from 4 99.9% pure metals, by fusion in an electric furnace under an inert atmosphere or under a $KCl/LiCl$ flux. X-ray (using Fe-K α radiation) and microscopic studies showed that compounds $TiCo_2Al$ ($a = 5.847 \pm 0.004 \text{ \AA}$), $MgNi_2In$ ($a = 6.167 \pm 0.004 \text{ \AA}$), $TiNi_2In$ ($a = 6.099 \pm 0.004 \text{ \AA}$), and $TiCu_2In$ ($a = 6.222 \pm 0.004 \text{ \AA}$) exist in the Ti-Co-Al, Mg-Ni-In, Ti-Ni-In, and Ti-Cu-In systems. These ternary compounds are of the $MnCu_2Al$ type and belong to the space group $Fm\bar{3}m-O_h^2$. No such compounds were found in the systems Ti-Fe-Al, Ti-Cu-Al, V-Fe (Co, Ni, Cu)-Al, Mg-Cu-In and V-Cu-In. There are 2 tables.

Card 1/2

Crystalline structure ...

S/021/62/000/012/015/018
D205/D307

ASSOCIATION: Lvivskyy derzhavnyy universytet (Lvov State University)

PRESENTED: by I.M. Frantsevych, Academician

SUBMITTED: February 17, 1962

Card 2/2

L 19908-63

EWP(q)/EWT(m)/EWP(B)/BDS AFFTC/ASD JD/JG

S/0226/63/000/COL/COL10/COL8

ACCESSION NR: AP3005811

AUTHORS: Kuz'ma, Yu. B. ; Lakh, V. I. ; Markiv, V. Ya; Stadnyk, B. I. ; Gladyshchevskiy, Ye. I.

63
62

TITLE: X-ray diffraction analysis of the W-Re-C system

SOURCE: Poroshkovaya metallurgiya, no. 4, 1967, 110-118

TOPIC TAGS: W-Re-C, x-ray diffraction

ABSTRACT: Thirty-four alloys of the W-Re-C system containing 1-10 atomic % of C were investigated by x-ray diffraction. The effect of C content on the composition and properties of W-Re thermocouples was studied. Alloy samples weighing 30 g were prepared from the following powdered materials: tungsten carbide (6.09 at. % of C), tungsten - 99.98%, rhenium - 99.8%, and carbon (lampblack) 99.9%. The phase equilibria of cast alloys and of the alloys annealed at 2000, 1500, 1000 and 800C were determined. It was established that Re and alpha-W₂C form a continuous series of solid solutions. Two new compounds were found: a ternary compound W₃Re₂C with a cubic lattice akin to that of beta-Mn (space group $P4_13-0^7$, $a = 6.859 \pm 0.002$ Å); and a ternary carbide (WRe)C formed at temperatures above 2500C with a cubic face-centered lattice of the type NaCl (space group $Fm-3m - O_h^5$, $a = 4.063 \pm 0.001$ Å).

Card 1/2

L 19908-63

ACCESSION NR: AP3005811

Preliminary data concerning the existence of a rhombic low-temperature version of W_2C were obtained. Orig. art. has: 4 tables and 5 figures.

ASSOCIATION: L'vovskiy ordena Lenina gosuniversitet im. I. Ya. Franko (L'vov State University)

SUBMITTED: 14May62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: ML -

NO REF SOV: 006

OTHER: 009

Card 2/2

MARKOV, V Ye.

Our own botanical garden. IUn. nat. no.2:9 F '61.

(MIRA 14:3)

1. Rukovoditel' kruzhka tsvetovodov, Bogdanovskiy detskiy dom,
Kuybyshevskoy oblasti.

(Kuybyshev Province—School gardens)

MARKOV, V.Ye., inzh.; REKUS, G.G., inzh.; CHIRKOV, M.T., inzh.; BOGOLEPOV,
K.G., inzh.; NEYMAN, B.S., inzh.

EPL-6 electric pump with immersed electric engine. Mekh. i elek.
sets. sel'khoz. 17 no.2:45-46 '59. (MIRA 12:6)

1.Moskovskoye vysshoye tekhnicheskoye uchilishche im. Baumana (for
Markov, Rekus, Chirkov). 2.Moskovskiy elektromekhanicheskiy zavod
Ministerstva sel'skogo khozyaystva RSFSR (for Bogolepov, Neyman).
(Pumping machinery)

MARKOV, V.Ye., inzh.; REKUS, G.G., inzh.; CHIRKOV, M.T., inzh.; BOGOLEPOV,
K.G., inzh.; NEYMAN, B.S.

Electric pulley block with planetary gear. Mekh.i sots.sel'khoz.
17 no.7:50-51 '59. (MIRA 13:4)

1. Moskovskoye vysshaye tekhnicheskoye uchilishche im. Baumana
(for Markov, Rekus, Chirkov) 2. Elektromekhanicheskiy zavod
Moskovskogo sovnarkhoza (for Bogolepov, Neyman).
(Pulleys)

MARKOV, WL. N.; VULCHANOV, V. H.

On the role of lymphocytes in immunogenesis. Dokl. Bolg. akad.
nauk 15 no.1:81-84 '62.

(LYMPHOCYTES) (IMMUNE SERUMS) (ANTIBODIES)

MARKOV, Wl. N.; VULCHANOV, V.H.

Dynamics of the differential interrelations of white blood cells under the effect of antilymphocytic serum. Dokl. Bolg. akad. nauk 15 no.2:187-190 '62.

(LEUKOCYTES) (ANTIBODIES) (IMMUNE SERUMS)
(LYMPHOCYTES)

MARKOV, Ya.F.(g.Moskva)

Interschool centers for the study of mechanical engineering and
electrical engineering. Politekh.obuch. no.10:84-85 0 '58.
(Moscow--Technical education) (MIRA 11:11)

MARKOV, Ye.L., zasluzhennyy deyatel' nauki (Tbilisi)

Raising the northern squirrel in the forests of the Armenian S.S.R.
Izv.AN Arm.SSR.Biol.i sel'khoz. nauki. 4 no.4:387-388 '51.

(MLRA 9:8)

(Armenia--Squirrels)

KONDRAT'YEV, M.N., ~~MARKOV, Ye.N.~~

Containers for multiple use. Mashinostroitel' no.8:36-37 Ag
'62. (MIRA 15:8)

(Containers)

MARKOV, Ye.P.; KLEPOV, I.L.

Carboniferous stratigraphy of the northwestern Siberian Platform.
Mat. VSEGEI no. 32:75-78 '60. (MIRA 14:3)
(Siberian Platform—Geology, Stratigraphic)

MARKOV, Ya. S. kandidat tekhnicheskikh nauk.

Drainage methods should correspond to modern methods for winning
peat. Torf.prom 33 no.1:9-11 '56. (MLRA 9:5)

1. Institutu inzhenerov vodnogo khozyaystva imeni Vil'yamsa.
(Drainage)

MIRA NOV, 1957

MESHCHERYAKOV, D.P.; MARKOV, Ye.S.

Role of soil and botanical research in planning drainage
measures. Pochvovedenie no.2:131-133 F '57.

(MLBA 10:5)

(Drainage) (Soil research) (Botanical research)

MARKOV, Ye.S.

Types of swampy floodlands and ways of their improvement.
Pochvovedenie no.8:14-23 Ag '60. (MIRA 13:8)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva.
(Alluvial lands)

MARKOV, Yu.A.

Improve the construction of the DDP-30s sprinkler. Sel'khozmaschina
no.6:12-13 Je '56. (MLBA 9:8)

1. Nauchno-issledovatel'skiy institut Plodovodstva imeni Michurina.
(Sprinklers)

3(7)

AUTHOR: Markov, Yu. A.

SOV/50-59-10 3, 25

TITLE: Investigation of Ground Humidity in Gardens

PERIODICAL: *Metecrologiya i gidrologiya*, 1959, Nr 10, p 24 (USSR)

ABSTRACT: On the investigation of ground humidity in gardens the author found several times that the degree of humidity differs on the northern and southern side of a tree. To explain the degree of this difference, data on the ground humidity in the garden of the Sovkhoz Dubovoye (Tambov oblast') collected in 1957 were analyzed. The garden was laid out in 1932 (common Antonovka apples) the individual trees and rows being planted 8 m far from one another. Average height of the trees: 5 m. Average diameter of the tree tops: 5.8 m. The soil is depleted black soil. The analysis showed that on the average the humidity content in the 0-20 cm layer on the northern side of the trees was higher by 1.5% than on the southern side, and by 0.7% in a depth of from 20-40 cm. In deeper layers there was only a slight difference. In a depth of 1 m, the humidity content diminishes from the middle of the interspace between the tree rows toward the trees. The smallest content in this layer was found at a distance of

Card 1/2

Investigation of Ground Humidity in Gardens

SOV. 59 10 1/25

1 m from the rootstock, i.e. on the southern as well as on the northern side of the trees. It is therefore necessary to take samples of the ground at equal distances from the rootstock (about 1.5 - 2.5 m).

Card 2/2

MARKOV, YU. A., CAND AGR SCI, "METHOD OF WATERING - A
FRUIT-BEARING APPLE ORCHARD UNDER CONDITIONS OF THE CENT-
RAL CHERNOZEM BELT." MICHURINSK, 1960. (MIN OF AGR RSFSR,
FRUIT AND VEGETABLE INST IM I. V. MICHURIN). (KL, 3-61,226).

MARKOV, Yu.A.

Use of the SDA-2 medium-jet sprinkling apparatus. Trakt. i
sel'khoz mash. 33 no.10:45-46 0 '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut sadovodstva im. I.M.
Michurina.

MARKOV, Yu.A., kand.sel'skokhoz.nauk (Michurinsk)

Attachment to the DUN-45 sprinkler for work in orchards.

Gidr. i mel. 17 no.12:14-15 D '65.

(MIRA 19:1)

MARKOV, Yu.A., inzh.; SMOLDYREV, A.Ye, inzh.

Fall velocity of particles of rock during free and hindered falling.
Gor.zhur. no.3:71-72 Mr '60. (MIRA 1495)
(Frictional resistance (Hydrodynamics)) (Ore dressing)

MARKOV, Yu.A., inzh.; SMOLDYREV, A.Ye., kand.tekhn.nauk

Free and hindered fall of solid particles in pipes.
Nauch.sob.Inst.gor.dela 7:128-137 '61. (MIRA 15:1)
(Pipe--Hydrodynamics)

MARKOV, Yu.A.

Tensimetric pressure gauge for hydraulic conveying systems. Ugol'
36 no.3:29-31 Mr '61. (MIRA 14:5)
(Hydraulic conveying) (Pressure gauges)

SPIVAKOVSKIY, Aleksandr Onisimovich; MUCHNIK, Vladimir Semenovich, doktor tekhn. nauk; YUFIN, Andrey Pavlovich, doktor tekhn. nauk; SMOLDYREV, Anatoliy Yevtikheyevich, kand. tekhn. nauk; OFENGENDEN, Naum Yefimovich, kand. tekhn. nauk; BORISENKO, Lev Dmitriyevich, kand. tekhn. nauk; TRAYNIS, Viulen Vladimirovich, kand. tekhn. nauk; Prinimali uchastiye: KURBATOV, A.K., inzh.; MARKOV, Yu.A., inzh.; KORSHUNOV, A.P., inzh.; EKBER, B.Ya., otv. red.; KOVAL', I.V., red.izd-va; IL'INSKAYA, G.M., tekhn. red.

[Hydraulic and pneumatic transportation in mining enterprises]Gidravlicheskiy i pnevmaticheskiy transport na gornyykh predpriyatiyakh. Moskva, Gosgortekhzdat, 1962. 250 p.
(MIRA 16:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Spivakovskiy).
 2. Institut gornogo dela im. A.A.Skochinskogo (for Smoldyrev).
 3. Vsesoyuznyy nauchno-issledovatel'skiy i projektno-konstruktorskiy institut po gidrodobyche uglya (for Muchnik).
 4. Donetskiiy nauchno-issledovatel'skiy ugol'nyy institut (for Ofengenden).
 5. Moskovskiy inzhenerno-stroitel'nyy institut im. V.V.Kuybysheva (for Yufin).
- (Pneumatic conveying) (Hydraulic conveying)

KAZAKOV, N.I., gornyy tekhnik; YUNOVICH, M.I., gornyy inzh.;
KUDRYAVTSEV, Yu.I., gornyy inzh.; SMOLDYREV, A.Ye.,
kand.tekhn.nauk; MARKOV, Yu.A., gornyy inzh.; KURBATOV, A.K.,
gornyy inzh.

Study of the operation of a hydraulic hoist in the "Belkina-
Ventilyatsionnaya" Mine. Gor. zhur. no.6:43-47 Je '62.
(MIRA 15:11)

1. Leninogorskoye shakhtostroyupravleniye (for Kazakov).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnoy metallurgii, Ust'-Kamenogorsk (for Yunovich, Kudryavtsev).
3. Institut gornogo dela im. Skochinskogo, Moskva (for Smoldyrev, Markov, Kurbatov).
(Leninogorsk region (East Kazakhstan Province)--Mine hoisting)

MARKOV, Yu.A.; SMOLDYREV, A.Ye.

Hydraulic transportation of coal and rocks by vertical pipelines
of hoisting units. Ugol' 38 no.6:28-32 Je '63. (MIRA 16:8)

(Hydraulic conveying)

KURBATOV, A.K. (Moskva); MARKOV, Yu.A. (Moskva); SMOLYREV, A.Ye. (Moskva)

Movement of solid particles in rising fluid flow. Izv. AN SSSR
Mekh. i mashinostr. no.6:146-148 N-D '64.

(HIRA 8:2)

MARKOV, Yu.A. (Moskva); SMOLDYREV, A.Ye. (Moskva)

Hydraulic resistances during the vertical motion of hydromixes in pipes. Izv. AN SSSR. Mech. no.5:182-184 S-O '65. (MIRA 18:10)

MARKOV, Yu.B., kapitan 1-go rango

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VOLOKHOV, V.A., inzh.; MARKOV, Yu.D., inzh.

Using radioactive isotopes in controlling the quality of laid
concrete. Prom. stroi. 38 no.5:47-50 '60. (MIRA 14:5)
(Radioisotopes—Industrial applications)
(Concrete construction)

KAPRALOV, I.I.; MARKOV, Yu.G.

Role of a supplementary discharge in igniting an arc. Izv.
Sib.otd.AN SSSR no.6:116-121 '60. (MIRA 13:9)

1. Transportno-energeticheskiy institut Sibirskogo otdeleniya
AN SSSR.

(Electric arc)

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D256/D301

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AUTHORS: Kapralov, I. I., Fedotov, M. A. and Markov, Yu. G.

TITLE: A high-frequency gas-discharge device

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 3, 1962, abstract 3-3-79ye (Izv. Sibirsk. otd.
AN SSSR, 1961, no. 7, 36-40)

TEXT: The device comprises a gas-discharge diode made of a glass tube 5 mm in diameter and a length of 54 mm, provided with 0.6 mm diameter molybdenum rod electrodes sealed into the ends of the tube, the distance between the electrodes being 26 mm. A high-frequency electrode, e.g. a ring made of foil, was placed or glued onto the outside of the tube and connected to a 200 - 500 V, 167 or 520 kc/s supply. The end-electrodes were connected to the grids of a double triode working in a bridge circuit. The electrodes were connected to the "earth" of the system by small capacitors ($0 \leq 10$ pF). At a difference of C and ΔC a d.c. voltage U_g was registered

- at the output of the circuit depending on the values of C, ΔC , the

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