

S/883/62/000/000/014/020  
E194/E155

AUTHORS: Chupilko, G.Ye. (deceased), and Sapronov, T.G.

TITLE: Laboratory testing of frictional materials by the thermal shock method

SOURCE: Metody ispytaniya na iznashivaniye; trudy soveshchaniya, sostoyavshegosya 7-10 dek. 1960. Ed. by M.M. Khrushchov. Moscow, Izd-vo AN SSSR, 1962. 132-139

TEXT: The friction wear machine  $\text{V-47}$  (I-47) in which the ends of hollow cylindrical specimens are rubbed together, reproduces practical conditions much better than most friction machines but cannot reproduce the conditions of thermal shock and temperature gradient within the specimen which are experienced under practical transient braking conditions. Accordingly, machine  $\text{V-48}$  (I-48) was developed; it is generally similar to machine I-47 except that different flywheels can be attached to the end of the shaft with moments of inertia in the range 0.3 - 15 kgcm.sec<sup>2</sup>. To reproduce practical loading conditions accurately, it is necessary to determine the maximum power dissipation per unit brake surface at the start of braking; the total work dissipated in the braking process

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laboratory testing of frictional ...

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per unit area; and the maximum bulk temperature of the frictional materials. The necessary kinetic energy of the flywheel is calculated, and convenient values of flywheel mass and speed are then selected. The axial load on the specimens is calculated. In setting up the machine a small clearance is left between the specimens. With the flywheel up to speed, the motor is switched off and the flywheel is connected to the test machine by a clutch; simultaneously load is applied pneumatically to the specimens. The test continues until the flywheel stops. The test is repeated ten times, the specimens being weighed between tests. Typical test conditions are; specimen 75 mm o.d., 53 mm i.d.; slots are cut in one specimen to give 90% coverage with an area of 20 cm<sup>2</sup>; initial speed 20 m/sec; pressure 6-12 kg/cm<sup>2</sup>; specific work of retardation 540 kgm/cm<sup>2</sup>; maximum specific power dissipation 50 kgm/cm<sup>2</sup>.sec; mean specific braking power 25 kgm/cm<sup>2</sup>.sec; maximum bulk temperature 450-550 °C. Test results are quoted for a number of metallo-ceramics and plastics in friction against steel and cast iron. Results obtained in this way are said to compare well with practice. There are 5 figures and 2 tables.

Card 2/2

L 34097-65 EWG(j)/EWT(1)/EWP(a)/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EKA(d)/EPR/T/EWP(t)/  
EWP(k)/EWP(b) Pf-4/Pr-4/Ps-4/Pu-4/ IJP(c) JD/WN/JG/DJ/AT/WH  
ACCESSION NR: AP5007367 S/0286/65/000/004/0030/0030

AUTHOR: Migunov, V. P.; Shadskaya, N. G.; Malyutin, M. V.; Sapronov, T. G. 57  
B

TITLE: Sintered high-friction material. Class 18, No. 168314 6

SOURCE: Byulleten' izobreneniy i tovarnykh znakov, no. 4, 1965, 30

TOPIC TAGS: friction, high friction alloy, sintered friction alloy, wear resistant,  
friction alloy 14

ABSTRACT: An Author Certificate has been issued for a sintered, wear-resistant,  
high-friction, iron-base material containing 10-20% copper, 4-8% graphite, 2-4%  
asbestos, 0-5% cobalt, 2-10% boron carbide, 2-10% silicon carbide, and 5-10%  
iron sulfate. [MS]

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike (Organ-  
ization of the State Committee on Aviation Technology)

SUBMITTED: 28Aug63

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3209

Card 1/1

SAPRONOV, V. A.

28. Production of treads with the use of  
spreaders. V. SAPRONOV. Byud. Tekhn. Inf. Omb.  
Shinnogo Zavoda, 1956, No. 2, 0-11; Kavch. i  
Reziya, 1957, 18, No. 4, 43. 66A2114.1

1  
-4E2C (y)  
2 May

28

*SAPRONOV, V. A.*

138-1-8/16

AUTHOR: Sapronov, V. A.

TITLE: A New Method of Stretching Cords in the Manufacture of Tyres. (Novyy metod shireniya korda v shinnom proizvodstve).

PERIODICAL: Kauchuk i Rezina, 1958, Nr.1. pp. 27 - 30. (USSR).

ABSTRACT: The use of cords increases the coefficient of utilisation of the surface of a cord and maintains the required density of the fibres of the base material. Arcs placed near the calenders at the side at which the cord is fitted, are used to increase the stretch of some constructions. These arcs are made in the form of a bent bar with a diameter of 20 - 30 mm, depth of curvature: 70 - 100 mm. Various drawbacks in the stretching of linen cords on arcs are pointed out. ~~HOWEVER~~ constructed arcs with variable radii of curvature; in the centre 7-8 m with gradual decrease towards the end of the arcs (4-5 m). More satisfactory results were obtained. The Omsk Factory for Tyres developed a new method in 1955 which does not use arcs. Figs. 1 and 2 show the construction of this new device. The conicity of the rollers was determined by experiments and was approximately 1:200 in the Omsk factory. The rollers were covered with rubber to increase the friction between

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138-1-8/16

A New Method of Stretching Cords in the Manufacture of Tyres.

them and the linen cords. Due to the friction between the cord and the rollers an electric charge was set up; therefore, rubbers with sufficiently high electro-conductivity were used. The distance between the end of the rollers was set at 20 - 30 cm. The table on page 29 gives average values of stretching of a cord during nine months of 1955 and for six months during 1957. Experiences gained by using this method in the Omsk factory for two years showed that similar modifications can be carried out for decreasing the shrinkage of the cord. The Omsk factory also carried out experiments on the stretching of rims of protective casings 260-20 and screw presses WM-200 (Fig.4). The advantages of this method are (1) the simplicity of construction of the new modified apparatus, (2) simplicity of ease of adjusting the rollers while working the calenders, (3) the increase in the coefficient of utilisation of the linen cord, (4) improvement of the coefficients of density of the fibres, (5) the possibility of using such stretch appliances during various processes of treating fibres

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138-1-8/16

A New Method of Stretching Cords in the Manufacture of Tyres.

and during the manufacture of other semi-finished rubber goods. There are 4 Figures and 1 Table, 1 Russian Reference (page 28).

ASSOCIATION: Omsk Tyre Factory (Omskiy shinnyy zavod).

AVAILABLE: Library of Congress.

Card 3/3

NOVIKOV, I.M.; SAPRONOV, V.A.; ONISHENKO, Z.V.; SIMAKOVA, E.P.;  
BEL'SKAYA, Yu.R.; BALASHOVA, T.L.; Prinsipalni uchastiyer:  
KALINICHENKO, V.N.; LITVINENKO, L.A.

Granulation of butadiene-styrene and natural rubber in the  
Dnepropetrovsk Rubber Tire Plant. Kauch. i rez. 22 no.12:  
44-48 D '63. (MIRA 17:9)

1. Dnepropetrovskiy shinnyy zavod (for all except Kalinichenko,  
Litvinenko). 2. Dnepropetrovskiy filial Nauchno-issledovatel'-  
skogo instituta shinnoy promyshlennosti (for Kalinichenko,  
Litvinenko).



SAPRONOV, V.A.; KURPICHEVA, T.N.; TOKAREVA, L.T.; CHAVCHICH, T.A.;  
~~LEVIN, G.M.~~; BORODUSHKINA, Kh.N.; BOGUSLAVSKIY, D.B.

Effect of some formula and technological factors on the quality  
of butyl rubber diaphragms for the forming and vulcanizing  
equipment. Kauch. i rez. 23 no.5:14-19 My '64.

(MIRA 17:9)

1. Dnepropetrovskiy shinnyy zavod.

L 13914-65 EWT(m)/EPF(c)/EPR/EWP(j) Pc-4/Pr-4/Ps-4 WW/IM  
ACCESSION NR: AP4047669 S/0138/64/000/010/0012/0016

AUTHOR: Chavchich, T. A., Levit, G. M., Sapronov, V. A., Borodushkina, Kh. N., Boguslavskiy, D. B., Omel'chenko, K. Ya.

TITLE: Some peculiarities in the vulcanization of butyl rubber with alkyl-phenolformaldehyde resins

SOURCE: Kauchuk i rezina, no. 10, 1964, 12-16

TOPIC TAGS: butyl rubber, alkylphenolformaldehyde resin, vulcanization, polyvinyl chloride, vulcanization accelerator, polymer aging, polymer cross-linking, metal oxide

ABSTRACT: The effect of polyvinyl chloride derivatives, copolymer 40, Nairit A, and Nairit (chloroprene) on the vulcanization of butyl rubber with alkylphenolformaldehyde was investigated. The composition and method of preparation of the polymers are given. The physico-mechanical properties of rubbers with different chlorine-containing polymers (0.65 parts by wt. of accelerator calculated for chlorine, at a vulcanization temperature of 170C) are plotted and show that all polymers (except Nairit) accelerate the vulcanization of butyl rubbers. In contrast to neoprene W, Nairit A does not accelerate the vulcanization, but favorably affects the modulus during thermal aging. With an increasing

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L 13814-65

ACCESSION NR: AP4047669

amount of polymer, the difference between the two polymers is more pronounced. A very special feature of mixtures prepared with chlorosulfopolyethylene is the more rapid vulcanization in the initial period and the lower modulus values when the vulcanization time is increased. This is apparently due to the variation in the conditions of dehydrochlorination at different temperatures. Tabulated data show that all polymers tested improve the heat stability of butyl rubber vulcanizates but (except for Nairit A) considerably increase the modulus and decrease the relative elongation of rubbers during heat aging. Depending on the type of catalyst used, the degree of cross-linking can be controlled during aging with metal oxides or organic compounds containing a certain number of functional groups. The effect of  $ZnO$  and  $Zn(OH)_2$  on the degree of vulcanization and of  $MgO$  and  $PbO$  on the modulus during vulcanization for 45 min. at  $170C$  is plotted. By replacing  $ZnO$  with  $Zn(OH)_2$  the degree of vulcanization is decreased; in equimolecular amounts,  $PbO$  is more effective. The addition of 6-ethoxy-2,2,4-trimethyl-1,2-dihydroquinoline to mixtures with chlorosulfopolyethylene and copolymer 40 gives a degree of cross-linking identical to that of rubber containing Nairit A, but with a more favorable rate of vulcanization. The fatigue strength of butyl

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L 13814-65

ACCESSION NR: AP4047669

rubbers containing chlorinated polymers with different additives under thermal aging at 60C and for 48 hrs. (100% elongation, 250 cycles/m<sup>n</sup>., 20C) showed that by varying the content of accelerators and inhibitors, rapidly vulcanizing rubbers with good dynamic properties can be obtained. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: Dnepropetrovskiy shinny\*<sup>y</sup> zavod (Dnepropetrovsk Tire Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: 0C

NO REF SOV: 001

OTHER: 009

Card 3/3

L 01149-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5022000/ UR/0286/65/000/014/0076/0076  
678.043.044

AUTHOR: Boguslavskiy, D. B.; Borodushkina, Kh. N.; Malinovskiy, N. S.;  
Kolenskaya, A. I.; Kupriyayeva, O. N.; Romanov, A. S.; ~~Semenov, V. A.~~; Tretyak,  
S. P.; Chavchich, T. A.; Turilina, L. N.; Kovaleva, V. P.

TITLE: A method for vulcanizing rubber. Class 39, No. 172994

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 76

TOPIC TAGS: vulcanization, rubber, polymer, polyester plastic

ABSTRACT: This Author's Certificate introduces a method for vulcanizing rubber by using alkylphenolformaldehyde resins in the presence of chloride-containing polymer accelerators. A wider selection of accelerators is provided by using polyester resins--products of condensation of glycerine  $\alpha$ -monohydrochloride with phthalic and/or maleic anhydride.

ASSOCIATION: none  
SUBMITTED: 10 Nov 63  
NO REF SOV: 000

ENCL: 00  
OTHER: 000  
SUB CODE: NT

Card 1/1 DP

1

L 7883-66 EWT(m)/EWP(j) RM

AGG NR: AP5025013

SOURCE CODE: UR/0286/65/000/016/0079/0079

AUTHORS: Boguslavskiy, D. B.; Borodushkina, Kh. N.; Kupriyanova, O. N.; Mal'tsev, V. N.; Sapronov, V. A.; Chavchich, T. A.

ORG: none

TITLE: A method for the vulcanization of rubbers by alkylphenolformaldehyde resins. Class 39, No. 173921

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 79

TOPIC TAGS: rubber, vulcanizing agent, halogen organic compound, vulcanizate, resin, formaldehyde, vulcanization

ABSTRACT: This Author Certificate presents a method for vulcanizing rubbers by alkylphenolformaldehyde resins in the presence of vulcanizing accelerators—halogen-containing organic substances. To improve the method, the halogen-containing organic compounds are added in the form of halogenated esters of aromatic and aliphatic carboxylic acids.

SUB CODE: 11 / SUBM DATE: 12Apr63

Card 1/1<sup>nw</sup>

UDC: 678.028.294:678.044:547.29'26

1 19740245 EWT(m)/EWP(j)/T Pc-4 RM  
ADDRESS: A

S/0138/65/000/002/0002/0007

AUTHORS: Sapronov, V. A.; Boguslavskiy, D. B.; Chavchich, T. A.; Kupriyanova,  
O. I.; Levit, U. M.; Borodushkina, Kh. N.

SUBJECT: Use of alkyd and formaldehyde resins for vulcanization of general  
purpose rubber

SOURCE: Kauchuk i rezina, no. 2, 1965, 2-7

TOPIC TAGS: rubber, resin, vulcanization, formaldehyde/BSK rubber, SKD rubber,  
SKS 30-1 rubber

ABSTRACT: The authors have presented experimental results on the vulcanization  
of a number of varieties of general-purpose rubber (BSK, SKD, SKS-30-1) by  
the use of alkyd and formaldehyde resins. Various compositions were employed and the

Card 1/2

L 39769-65

ACCESSION NR: AP5005389

of crosslinkage in resinous vulcanizates, as compared with sulfur vulcanizates,  
of crosslinkage in resinous vulcanizates, as compared with sulfur vulcanizates,



ASSOCIATION: Dnepropetrovskiy shinnyy zavod (Dnepropetrovsk Tires Factory)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, UC

NO REF SOV: 006

OTHER: 005

Card 2/2

BALASHOVA, T.L.; BEL'SKAYA, Yu.R.; SAPRONOV, V.A.; SOKOLOV, V.D.

Compound for the automatic greasing of the inside surface of treads.  
Kauch. i rez. 24 no.5:50 My '65. (MIRA 18:9)

1. Dnepropetrovskiy shinnyy zavod.

BAKHAREV, V.I.; DOZORTSEV, M.S.; KOSARENKO, M.F.; SAPRONOV, V.A.;  
PRIVLER, M.D.

Device for indicating the load on tear resistance testing  
machines for given deformations. Kauch. i rez. 24 no.11:  
49 '65. (MIRA 19:1)

1. Dnepropetrovskiy shinnyy zavod.

L 44175-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6011230 (A) SOURCE CODE: UR/0413/66/000/006/0073/0073

34  
B

INVENTOR: Boguslavskiy, D. B. ; Borodushkina, Kh. N. ; Kupriyanova, O. N. ; Malinovskiy, M. S. ; Sapronov, V. A. ; Chavchich, T. A.

ORG: none

TITLE: Method of vulcanizing synthetic rubbers by alkylphenolformaldehyde resins.  
Class 39, No. 179915

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 73

TOPIC TAGS: vulcanization, synthetic rubber, phenolformaldehyde, benzene, resin

ABSTRACT: An Author Certificate has been issued for a method of vulcanizing synthetic rubbers by alkylphenolformaldehyde resins in the presence of haloid-containing compounds. To speed up the vulcanization process,  $\alpha, \beta$ -dibromethyl benzene is used as the haloid-containing compound. [Translation] [NT]

SUB CODE: 11<sup>1/3</sup>/SUBM DATE: 30Jan65/

Card 1/1 *all*

UDC: 678.7.028.294.044:547.539

SAPRONOV, V.I.; TKACHENKO, Ye.A.; SUSHIN, V.N.

Investigation of natural sorbents by a series of physical  
methods. Trudy DVFAN SSSR. Ser. khim. no. 7:31-41 '65.  
(MIRA 18:12)

SAPRONOV, V.I.; YAKOBSON, Ye.V.

The AU-200 and AV-100 ammonium refrigerating compressors.  
Biul.tekh.-ekon.inform. no.12:60-63 '61. (MIRA 14:12)  
(Refrigeration and refrigerating machinery)

SAPRONOV, V.I.

Small-angle X-ray method for studying natural sorbents.  
Soob. LVFAN SSSR no.19:67-69 '63. (MIRA 17:9)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya  
AN SSSR.

SAPRONOV, V. S.

USSR/Engineering  
Fuel  
Coal

Apr 49

"Specific Weight of Several Coals of the Donets Basin," A. A. Agroskin, A. E. Mikhaylik, P. N. Mitin, V. S. Sapronov, Power Eng Inst Imeni G. M. Khrushchevskiy, Acad Sci USSR, 6 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 4

Trend toward increased loading of coking furnaces has made it important to increase specific weight of coal charges. Method of moistening coal charges with micro additions of hydrocarbon liquids is widely used for this purpose. This method is very effective in increasing specific weight of Donets Basin coals. Gives characteristics of five types of Donets Basin coals — PZh-1, PZh-2, K, PS-1, and PS-2. Graphs show variation of specific weight with (1) addition of kerosene and (2) moisture. Submitted by Acad N. P. Chizhevskiy, 27 Jul 48.

PA 45/49T47



POLUEKTOV Ivan Antonovich; MELIKSETOV, Sergey Stepanovich;  
KOLMIYETS, Aleksandr Andreyevich; BOL'SHINSKIY, Grigoriy  
Moiseyevich; SAPRONOV, Vitaliy Tikhonovich.

[New technology of mine shaft sinking] Novaya tekhnologiya  
sooruzheniya shakhtnykh stvolov. Moskva, Nedra, 1965. 113 p.  
(MIRA 18:10)

SAPRONOV, Yu. G.

"Epidemiology, Diagnosis and Prophylaxis of Nonicteric Leptospirosis in Krimskaya Oblast." Cand Med Sci, Crimean State Medical Inst imeni I. V. Stalin, Simferopol, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

USSR/Microbiology - Microbiology Pathogenic to Humans and  
Animals.

F-4

Abs Jour : Ref Zhur - Biol., No 12, 1958, 52909

Author : Sapronov, Yu.G.

Inst : Crimean Medical Institute.

Title : On the Method of Leptospira Cultivation.

Orig Pub : Tr. Krynsk. med. in-ta, 1957, 17, 132-134.

Abstract : From the heart of a rabbit 25 ml of blood is taken and after defibrination it is mixed with 250 ml of distilled water and 1 ml of a melted 5% solution of MPA (meat peptone agar?). The nutrient medium is poured into 4-5 ml test tubes and is inactivated at 54-55° for 30 minutes. Each test tube is inoculated with 6-8 drops of leptospira culture. The growth of leptospira begins on the 4-5th day.  
-- I.Ye. Trop

Card 1/1

STARSHINOV, B.N.; SINITSKIY, V.D.; SEN'KO, G.Ye.; GULYGA, D.V.; BABIY, A.A.;  
KHORUZHIIY, A.G.; Primali uchastiye: OSTROUKHOV, M.Ya.; SAVELOV,  
N.I.; PLISKANOVSKIY, S.T.; MOISEYEV, Yu.G.; LAVRENT'YEV, M.L.;  
TARASOV, F.P.; ZAGREBA, A.V.; KAMENEV, R.D.; TKACHENKO, A.A.;  
FREYDIN, L.M.; LUKIN, P.G.; POPOV, Yu.A.; MISHIN, P.P.; KARACHENTSEV,  
M.D.; DOLMATOV, V.A.; AYUKOV, A.S.; PALAGUTA, V.P.; VYAZOVSKIY, Yu.V.;  
SOLODKIY, Yu.A.; KONAREVA, N.V.; SAPRONOV, Yu.V.; SINITSKAYA, S.K.;  
SAPRONOV, B.V.; LEKAREV, V.L.; STOLYAR, V.V.; PROKHORENKO, Z.A.;  
BANDINA, Ye.Ye.

Results of the first year of operation of large capacity blast  
furnaces. Sbor. trud. UNIIM no.11:34-46 '65.

(MIRA 18:11)

SOKOLOV, B.N.; PONOMAREVA, A.S.; SAPRONOVA, A.F.

Operation of conical vortex cleaning machines in the processing  
of unbleached pulp. Bum. prom. 33 no.5:18-19 My '58. (MIRA 11:6)

1. Nauchno-issledovatel'skaya laboratoriya pervogo Kaliningradskogo  
kombinata.

(Papermaking machinery)

SAPRONOVA, A.V.

Use of synthetic fibers in the manufacture of felt headwear.  
Leh.prom. no.1:31-32 Ja-Mr '62. (MIRA 15:9)  
(Kiev—Feltwork) (Textile fibers, Synthetic)

GORDIYCHUK, O.M. [Hordiichuk, O.M.]; SAPRONOVA, A.V.

Use of the fluff from grade 4 rabbit pelts in the mixture of fine and semi-coarse wool for the manufacture of felt. Leh. prom. no.2:26-30 Ap-Je '63. (MIRA 16:7)

1. Kiyevskaya fetrovaya fabrika.  
(Feltwork)

RUSIN, N.M., kand.biol.nauk, ANDRONOVA, O.P.,Kand.med.nauk., SAFRONOVA, I.N.,  
nauchnyy sotrudnik, VASIL'YINA, O.I., nauchny sotrudnik

Hygienic assessment of food grown on soil treated with hexachlorant  
[with summary in English]. Gig. i san. 23 no.6:32-36 Ja '58

(MIRA 11:7)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii  
i gigiyeny imeni F.F. Erismana Ministerstva zdravookhraneniya RSFSR.  
(BENZENE HEXACHLORIDE, eff.

on food grown in hexachlorane-treated soil (Rus))

(FOOD,

hyg. assessment of food grown in hexachlorane-treated  
soil (Rus))



L V SAPRONOVA and L G NAUMOVA

"Investigation of the Dielectric Losses of Ceramics and Glass in Dependence on Temperature in the Ten-Centimeter of Ceramics and Glass in Dependence on Temperature in the Ten-Centimeter Band" from Annotations of Works Completed in 1955 at the State Union Sci. Res. Inst: Min of Radio Engineering Ind.

So: B-3,080,964

SAPRONOVA, N.P.

Greater precision in the forecasting of continuous rainfall in  
the Tashkent region in cold seasons. Trudy Sred.-Az.nauch.-issl.  
gidrometeor.inst. no. 8:3-11 '63. (MIRA 17:5)

SHAUMAN, A.M.; BEREZNAYA, I.Ya.; SAPRONOVA, R.P.

Operational memory register. Vych. tekhn. i vop. prog. no.1:  
39-47 '62. (MIRA 16:6)  
(Electronic computers)

DIMAKOVA, R.N.; SAPRONOVA, N.S.

Healing of infiltrated pulmonary tuberculosis. Probl. tub. 41  
no. 3:78 '63. (MIRA 17:9)

1. Iz dispansernogo sektora (zav. - prof. M.I. Oyfebakh)  
TSentral'nogo instituta tuberkuleza (dir. - deystvitel'nyy chlen  
AMN SSSR prof. N.A. Shmelev) Ministerstva zdravookhraneniya SSSR.

SAPRONOVA, Z.A.

Lime processing of drilling muds. Neftianik 5 no. 12:14-15  
D '60. (MIRA 13:12)

1. Zaveduyushchaya laboratoriyey Karabulakskoy kontory  
bureniya Neftepromyslovogo upravleniya Sunzhanef't'.  
(Oil well drilling fluids)

MOCHALOV, V.A.; MATYUSHCHENKO, D.D.; KRIVITSKIY, A.A.; GLEZER, G.N.;  
OPARIN, I.M.; KHEYMAN, E.L.; SMETNEV, N.N.; EPSHTEYN, A.L.;  
GUSEV, B.Ya.; LEYKIN, L.P.; MARCHENKO, G.M.; FISHKOV, V.G.;  
SAPROVSKIY, S.V.; LYAKHOVSKIY, I.I.; SMELYAKOV, Ye.P.; VAYNTRAUB,  
D.A.; BUDYLIN, M.M.; NOTKIN, Ye.M.; KUR, G.Ye.; ARONSHTEYN, N.A.;  
SUKHAREV, V.I.; VINOGRADOV, K.N.; BOBROVSKIY, N.S.

Innovators' certificates and patents. Mashinostroenie no. 2:  
103-109 Mr-Ap '64. (MIRA 17:5)

S/145/60/000/010/001/014  
D211/D302

AUTHORS: Beletskiy, V.Ya., Professor, Doctor of Technical Sciences, and Saprunov, A.S. Aspirant

TITLE: Calculating 3 parameters of a 4-link pin joint mechanism, approximately reproducing a given trajectory

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 10, 1960, 18 - 23

TEXT: The authors consider only the case when parameters  $a = (AB)$ ,  $k = (BM)$ ,  $\omega = \angle CBM$  are known and  $r = (CD)$ ,  $d = (AD)$ ,  $l = (BC)$  are to be determined (Fig. 1). It is stated that the method devised by N.I. Levitskiy (Ref. 1: *Proyektirovaniye ploskikh mekhanizmov s nizshimi parami* (Design of Plane Mechanisms with Lower Pairs), Izd-vo AN SSSR, 1950) is very efficient. Formulas for the parameters are derived. An example is considered in detail (the required trajectory is a circle  $x = 1.24 + 1.62 \cos t$ ,  $y = 0.44 + 1.62 \sin t$ ), values of the so-called 'weighed difference' being given in a table and on a graph. There are 4 figures, 1 table and 6 Soviet-bloc references.

Card 1/2

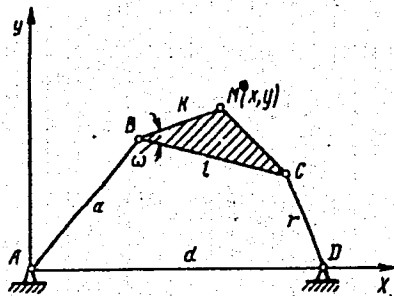
Calculating 3 parameters of a ...

S/145/60/000/010/001/014  
D211/D302

ASSOCIATION: Odesskiy tekhnologicheskii institut (Odessa Technological Institute)

SUBMITTED: November 5, 1959

Fig. 1.



Card 2/2



VERTSMAN, G.Z., kand. tekhn. nauk; PANTELEYEV, P.I., kand. tekhn. nauk; GOMOLYAKO, I.M.; TAL', K.K.; GUSEVA, K.G.; LUGOVOY, P.A.; MASSAN, A.M.; GALKIN, N.V.; SAPRYGINA, G.M.; CHESNOKOV, D.S.; DROZDKOV, V.I.; IZYUMOV, P.S.; ZAK, B.O.; KOROGID, P.Ye.; MAKSIMOVICH, L.N.; ZBOROVSKAYA, M.I.; PAVLOVSKAYA, S.A.; BORISOV, A.V.; SELIVANETS, N.Ye.; ITKES, V.M.; YATSKEVICH, Ya.D.; KOZYRSKIY, N.P.; NIKITIN, V.D.; NEKLEPAYEVA, Z.A., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Design and planning of railroad stations and junctions]  
Proektirovanie zheleznodorozhnykh stantsii i uzlov; spravochnoe i metodicheskoe proizvodstvo. Moskva, Transzheldorizdat, 1963. 443 p. (MIRA 16:12)

1. Nauchno-issledovatel'skiy institut transportnogo stroitel'stva (for Guseva). 2. Gosudarstvennyy institut tekhniko-ekonomicheskikh izyskaniy i proyektirovaniya zheleznodorozhnogo transporta (for Zak). 3. Kiyevskiy gosudarstvennyy proyektno-izyskatel'skiy institut (for Kozyrskiy). 4. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta Im. I.V. Stalina (for Nikitin).

(Railroad engineering)

SAPRYGIN, G. P.

"The Use of Colostrum and Milk From the First Days of Lactation in Butter Making and for the Preparation of Acidophilin in Animal Husbandry." Cand Tech Sci, Omsk Agricultural Inst, Omsk, 1953. (RZhKhim, No 23, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55



1. SKYUYEV, P.V., LARINOV, N. V., Eng., SAPRYGIN, I. S.
2. USSR (600)
4. Metals - Heat Treatment
7. Reducing stresses in parts by annealing. No 9 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

S/124/63/000/002/043/052  
D234/D308

AUTHORS: Aleksandrov, P.A. and Saprygin, Kh.M.

TITLE: Investigation of the effect of nonuniformity of deformation during reduction of ingots on the mechanical properties of steel

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 2, 1963, 62, abstract 2V513 (Sb. tr. Ukr. n.-i. in-t metallov, 1962, no. 8, 123-132)

TEXT: The authors investigated blooms and rails rolled from 4.35 ton ingots of Bessemer steel (0.34 C, 0.97 Cr, 0.81% Mn). Longitudinal and transversal specimens were cut out and subjected to tension and impact tests. It is shown that in blooms with large section the characteristics of plasticity, the impact viscosity and the yield and strength limits decreased towards the interior. With increasing reduction the plasticity characteristics increase over the whole section in longitudinal specimens and in surface layers only in transversal specimens. The degree of working of the metal

Card 1/2

Investigation of the effect ...

S/124/63/000/002/043/052  
D234/D308

is not determined by the magnitude of general elongation but by the magnitude of reduction, the diameter of rolls and the thickness of reduced section.

[ Abstracter's note: Complete translation ]

Card 2/2

ACC-NR: AP6035654 (A) SOURCE CODE: UR/0133/66/000/011/1028/1029 LL

AUTHOR: Kazarnovskiy, D. S. (Professor, Doctor of technical sciences);  
Gurin, I. V. (Candidate of technical sciences); Krivonozov, Yu. I.  
(Candidate of technical sciences); Kravtsova I. P. (Candidate of tech-  
nical sciences); Saprygin, Kh. M. (Candidate of technical sciences);  
Arshavskiy, V. Z. (Candidate of technical sciences); Chatverikov, A. V.  
(Engineer); Mogilevskiy, I. I. (Engineer); Orinichev, S. I. (Engineer)

ORG: none

TITLE: Production technology for high-strength rails

SOURCE: Stal', no. 11, 1966, 1028-1029

TOPIC TAGS: high strength steel,  
metal cladding, railway track, bimetal, hot rolling/M75X steel,  
G13 steel, Rk5 steel, St.5 STEEL

ABSTRACT: An investigation had been made to develop a process for pro-  
ducing bimetallic rails, i.e. rails with a high-strength steel head.  
St.5 steel billets clad with M75X, G13, or Rk5 alloy steels were hot-  
rolled into 100 x 150 mm bars which, after reheating, were rolled into  
R-18 type rails. Rails with arc-deposited cladding had the highest bond  
strength and the most satisfactory surface quality. With M75X or Rk5-  
steel cladding, satisfactory results were obtained with cast composite

Card 1/2

UDC: 621.771.26

ACC NR: AP6035654

or pack-rolled billets. Rails with G13 steel cladding as unsatisfac-  
tory properties. Orig. art. has: 3 figures.

SUB CODE: 13/

SUBM DATE: none

Card 2/2



S/124/63/000/003/053/065  
D234/D308

AUTHORS: Saprygin, Kh. M. and Gunin, I. V.

TITLE: Special features of deformation and stressed state of metal during rolling of ingots

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1963, 34, abstract 3V242 (Sb. tr. Ukr. n.-i. in-t metallov, 1962, no. 8, 197-207)

TEXT: The authors give an expression for the distribution of longitudinal stresses along the strip height in blooming rolling, obtained by the method of characteristics. From the analysis of this formula it is concluded that when the ratio of strip height to grip arc length does not exceed 2, the longitudinal tensile stresses do not exceed the yield limit. In order to investigate the deformation distribution over the bloom section, the authors give the results of experiments on the rolling of ingots containing grids. On the basis of experiments they plot the distribution of deformations along the height and width of the strip. / Abstracter's note: Complete translation. /  
Card 1/1

GOLUBOV, M.M.; LEGEYDA, N.F.; ZAKHAROV, A.Ye.; FADEYEV, A.Yu.; PAN'KIN, N.I.;  
SAFRIGIN, Kh.M.; NOSOV, V.S.; VOL'TER, Ye.V.; SHUL'GA, Ye.A.;  
MIROSHNICHENKO, S.I.

Effect of the rate of plate cooling on the quality of the metal  
after rolling. Mat. i gornorud. prom. no.1:33-36 Ja-F '65.  
(MIRA 18:3)

SAPRYGIN, N.

100 thousand poods of grain for our country! Prof.-tekh. obr.  
21 no.12:8 D '64. (MIR 18:2)

1. Sekretar' partiynoy organizatsii Severo-Kazakhstanskogo  
oblastnogo upravleniya professional'no-tekhnicheskogo  
obrazovaniya.

BOYKO, G.F.; KRYZHANOVSKIY, N.A.; SAPRYGIN, V.G.

Synchronous recording of electrocardiograms, phonocardiograms and ballistocardiograms on the three-channel electron-beam oscillograph "Vector-Visocard" by a parallel recording of heart sounds on ferromagnetic tape. Vrach.delo no.5:533 My '59.

1. Fakul'tetskaya terapevticheskaya klinika (zav. - zasluzhennyy deyatel' nauki, prof. M.A. Yasinovskiy) Odesskogo meditsinskogo instituta.

(HEART--SOUNDS)

(OSCILLOGRAPHY)

SAPRYGINA, G. M.

MIKONI, V.V., inzhener; SAPRYGINA, G.M., inzhener; LELYAVINA, L.F., tehnik;  
MAKAR'YEVA, A.A., tehnik; VERINA, T.P. tekhnicheskiy redaktor.

[Album of switch boxes for normal gauge shuntings and crossings]  
Al'bum tipovykh strelochnykh perevodov i peresechenii normal'noi  
kolei. Moskva, Gos.transp.zhel-dor.izd-vo. Pt.2. [Ordinary switch  
boxes using type R50 rails with 1/11 and 1/9 frogs] Obyknovennyye  
strelochnye perevody iz rel'sov tipa R50 s krestovinyami mark  
1/11 i 1/9. 1957. 172 p. (MLRA 10:6)

1. Moscow. Gosudarstvennyy institut tekhniko-ekonomicheskikh  
izyskaniy i proyektirovaniya zheleznodorozhnogo transporta.  
(Railroads--Switches)

MIKONI, V.V., inzh.; SAPRYGINA, G.M., inzh.; LELYAVINA, L.F., tekhnik;  
VERINA, G.P., tekhn.red.

[Collection of standard switch boxes and crossings for standard gauge] Al'bom tipovykh strelochnykh perevodov i peresechenii normal'noi kolei. Moskva, Gos.transp.zhel-dor.izd-vo. No.4.  
[Symmetrical switch boxes made of type R43 rails with 1/6 frogs] Simmetrichnye strelochnye perevody iz rel'sov tipa R43 s krestovinyami marki 1/6. 1957. 95 p. (MIRA 12:4)

1. Moscow. Gosudarstvennyy institut tekhniko-ekonomicheskikh izyskaniy i proyektirovaniya zheleznodorozhnogo transporta.  
(Railroads--Switches)

SAPRYGINA, Ye. S.

Mbr.: Agriculture Inst., Dnepropetrovsk, -1944-. "On Selecting Paris in Crossing and Breeding Winter Hardy Wheat," Dok. AN, 25, No. 9, 1939; "A Method for Determination of Cold-Resistance of Winter Cereals," ibid, 28, No. 6, 1940; "Cold-Resistance of Wheat F2 Hybrids with Reference to Phasic Characteristics of their Parents," ibid 30, No. 9, 1941; "Synthesis of Winter-Hardy Wheats," ibid, 39, No. 7, 1943; "Frequency of Transgressions of Winter Hardiness in Wheat Hybrids," ibid, 44, No. 5, 1944; "A Method for Increasing Winteriness in Wheats," ibid, 45, No. 8, 1944; "Increase in Winteriness of Wheat," ibid, 52, No. 3, 1946. M. I. Saltykovskiy\*

SAITOV, N. I.

Saitov, N. I. Method for analyzing the resistance to cold in winter wheat, Trudy Odesk. gos. univ. Ser. II-III, 1948, p. 165-174. Bibliog: 18 items.

SC: U-3261, 10 April 53, (Leto is 'zhurnal 'nakh Statey No. 12, 1949)



SAPRYGINA, YE. S.

Saprygina, Ye. S. "The significance of the age and the developmental stage in resistance to cold (of winter grains) ", Trudy Dnepropetr. s. -kh in-ta, Vol. II-III, 1948, p. 191-208- Bibliog: 25 items

SO: U-3261, 10 April 53, (Letopis'zhurnal 'nykh Statey, No. 12, 1949

SAPRYGINA, YE. S.

Saprygina, Ye. S. "The resistance to cold in wheat hybrids", Trudy  
Dnepropetr. s. -kh. in-ta, Vol. II-III, 1948, p. 207-24, - Bibliog:  
22 items

SO: 1-3261, 10 April 53, (Letopis'zhurnal 'nykh S.atey, No. 12, 1949

SAPRYGINA, Ye. S.

SALTYKOVSKIY, M.I; SAPRYGINA, Ye.S.

Theory of synthesis of physiological characteristics. Doklady  
Akad. nauk SSSR 76 no.2:277-280 1951. (CML 20:4)

1. Presented by Academician N.A. Maksimov 9 November 1950.

SAPRYGINA, Ye. S.; KOZYUKINA, N. I.

Wheat

Significance of the place origin of winter wheat varieties. Sel. i sem. 19 No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952 UNCLASSIFIED

SALTYKOVSKIY, M.I.; SAPRYGINA, Ye.S.

Effect of winter drought on winter crops. Trudy Inst. fiziol.  
rast. 8 no.1:380-386 '53. (MIRA 6:12)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut.  
(Plants, Effect of aridity on)

SAPRYKIN, A.; AKSYUTIK, L.

Equipment from wood and plastics. Sov. torg. 35 no.8:56-58  
Ag '62. (MIRA 15:8)

1. Zamestitel' upravlyayushchego Roslesstroytorgom (for Saprykin).
2. Nachal'nik planovogo otdela Roslesstroytorgom (for Aksyutik).  
(Stores, Retail—Equipment and supplies)

SAPRUKIN, A.I.

Technology

Elektricheskie i svototekhnicheskie kharakteristiki luminestsentnykh lamp dlia oveshchenia podzemnykh vyrabotok v ugol'nykh shaktakh (Electrical and lighting characteristics of fluorescent lamps for the illumination of underground work in coal mines). Moskva, Giletekhizdat, 1951. 23 p.

MONTHLY LIST OF RUSSIAN ACQUISITIONS, LIBRARY OF CONGRESS, NOVEMBER 1952. UNCLASSIFIED.

SAPRYKIN, A.A.

Automatic control of piston compressors; discussion. Energ.  
biul. no.9:19-27 S '56. (MIRA 9:11)

(Air compressors) (Automatic control)



SAPRYKIN, A.A.

Automatic control apparatus for compressors. Energ.biul. no.2:16-23  
F '57. (MIRA 10:3)

(Gas turbines) (Automatic control)

BARRYAN, A.A. (Moskva)

Some problems of metal flow during forging. Inzh. zhur. 5 no.4:  
785-789 '65. (MIRA 18:9)

ROZHKOV, V.M.; TSYPER, V.A.; KRIVONOS, G.A.; CHERNOSHTAN, V.K.; SAPRYKIN, A.A.

Mastering the production of drill pipes with inner tips made of the  
B95 alloy. TSvet. met. 36 no.9:79-84 S '63. (MIRA 16:10)

SAPRYKIN, A. A.

Experience in compressed-air practice. Mast. ugl. 7 no. 7:14-15  
Jl '58. (MIRA 11:8)

(Coal mining machinery--Pneumatic driving)  
(Air compressors)

SAPRYKIN, A.A., inzh.

Determining the leakage of compressed air in air pipes. Ugol'  
36 no.3:26-27 Mr '61. (MIRA 14:5)  
(Coal mines and mining--Equipment and supplies)  
(Compressed air)

L 45091-65 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(e)/EWP(h)/EWP(b)/EWP(L)/

EWA(c) Pf-4 JD/HW  
ACCESSION NR: AP5011054

UR/0182/65/000/004/0001/0005

29  
25  
B

AUTHOR: Saprykin, A. A.; Shofman, L. A.

TITLE: Metal flow while pressing items of variable cross section

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1965, 1-5

TOPIC TAGS: tube pressing, pipe pressing, metal pressing, die casting, metal flow, radius die technique, hodograph plotting

ABSTRACT: The authors call attention to the trend in recent years to use pressing methods in the manufacture of items with a variable cross section along their length. Among these methods, the process of producing blanks and finished items of tubular form having a variable and periodic cross section is of particular importance. The essential nature of this process is briefly described. In an experimental study of the process of pressing tubular blanks of this type, a ring-shaped narrowing was noted in the transitional zone from the thin-walled to the thick-walled part of the tube whenever a flat die was used. It was found to be possible to eliminate this defect in the pressed tubes by using the results of a theoretical investigation of metal flow, based in turn on a method of rigid-plastic analysis which takes into account, along with the plastic zones, the pre-

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L 45091-65

ACCESSION NR: AP5011054

sence in the deformed body of rigid (elastic) nuclei. Although this method, described in full in the present article, was developed for flat deformation, it can be used successfully when investigating the pressing of thin-walled tubes, since in this process the axial and radial deformations are many times greater than the tangential. Since the constriction or narrowing of the tube billet (skelp) is caused by a sharp change in the direction of metal flow when leaving the die as the duct passage changes, an analysis of the various pressing parameters and, in particular, the determination of the effect of die geometry and the position of the mandrel with respect to the die, requires that the direction of the flow speed vector be found for different cases. This is accomplished by plotting characteristic graphs in the plane of the velocities (i.e., a hodograph) according to a known field of characteristics in the physical plane. The construction of a hodograph makes it possible to determine the velocity vector for the displacement of any point in the plastic zone of the skelp as a function of tool form and the relative arrangement of its individual parts. The characteristic field in the velocity plane is plotted, in the authors' approach, through the use of a graphic method, based on the condition of orthogonality with respect to the corresponding segments of the characteristics field in the physical field.

Card

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L 45091-65

ACCESSION NR: AP5011054

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An attempt is made to answer the question whether there is a change in the character of metal flow when pressing through a conical die as opposed to pressing through a flat die, all other conditions being equal. The analysis presented in this article shows that the defects (constrictions) which arise during pressing through a flat die at the points of transition from the thin-walled part of the tube to the thick-wall can be eliminated through the use of radius dies. Moreover, there is an optimal radius at which this narrowing disappears almost entirely. Numerous experiments in the pressing of tubes with periodically recurrent wall chamber, using light alloys on a 1000-ton horizontal hydraulic press and conducted in the pressing laboratory of VNIMETMASH have confirmed the results of the theoretical analysis presented in this paper: the use of dies with rounded edges makes it possible to reduce, and in certain cases to eliminate completely, fullering in pressing. The method proposed by the authors for the graphic construction of fields of characteristics and the corresponding hodographs for a tool with working surfaces of any configuration is of general interest, since it permits the solution of a number of practically important engineering problems having to do with various processes of pressure-working metals (closed impression die forging, drawing, rolling) with any form of contact surfaces for the working tool (draw plates, rollers, dies). "P. I. Perlin took part in the work." Orig. art. has: 9 figures and 6 formulas.

Card 3/4



L 45091-65

ACCESSION NR: AP5011054

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 003

OTHER: 000<sup>1</sup>

*me*  
Card 4/4

GALINKER, V.S.; SAPRYKIN, A.I.

Study of the electroplating of a lead-antimony alloy using the  $Sb^{124}$  radioactive indicator. Ukr. khim. zhur. 31 no.6:578-584 '65.

(MIRA 18:7)

1. Kiyevskiy politekhnicheskii institut.

ACCESSION NR: AP4018067

S/0080/64/037/002/0342/0348

AUTHORS: Galinker, V.S.; Sapry\*kin, A.I.

TITLE: Electrodeposition of cadmium-zinc alloy from an electrolyte containing Trilon B as complexing agent.

SOURCE: Zhurnal prikladnoy khimii, v.37, no.2, 1964, 342-348

TOPIC TAGS: cadmium zinc alloy, electrodeposition, Trilon B, cathodic deposition, corrosion resistance, throwing power, nontoxic electrolyte, stable electrolyte

ABSTRACT: The possibility of using Trilon B as the complexing agent in electrodepositing Cd-Zn alloys to obtain a more stable and less toxic electrolyte than with cyanides was investigated. Some factors affecting the electrodeposit are: by increasing the Zn content of the electrolyte or the NaOH concentration, or current density the Zn content in the cathodic deposit is increased; by increasing Trilon B concentration in the electrolyte the Cd content of the cathodic deposit is increased somewhat; and with increasing temperature the Cd content increases rapidly until 60C when the deposit is pure Cd. The cathodic

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ACCESSION NR: AP4018067

current yield increases somewhat with increasing temperature. An investigation of the possibility of using a combination anode consisting of parallel adjacent Zn and Cd plates showed that the current is unevenly distributed. In order to form an electrolyte of constant composition to obtain a Cd-Zn alloy (20% Zn), the ratio of the surfaces of the anode Cd and Zn plates should be 2:1. The following electrolyte is recommended to obtain a cathodic deposit consisting of about 20% Zn and 80% Cd (an alloy having corrosion resistance equivalent to that of pure Cd): CdSO<sub>4</sub>--35-40, ZnSO<sub>4</sub>.7H<sub>2</sub>O--12-14, Trilon B--100-110 and NaOH 75-85 gm./l; anode and cathode current density of 1-1.5 amps/dm<sup>2</sup>, 200, no agitation. The electrolyte has good throwing power and gives a dense light gray deposit with good adhesion to iron. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 10May62

DATE ACQ: 19Mar64

ENCL: 00

SUB CODE: CH, ML

NR REF SOV: 012

OTHER: 007

Card 2/2

ANDROSOV, Boris Innokent'yevich; BOGOSLOVSKIY, Andrey Mikhaylovich;  
MATVEYEV, Yevgeniy Nikolayevich; PECHENENKO, Viktor Ivanovich;  
SAPRYKIN, Aleksey Petrovich. Primali uchastiye: KOVNER,  
R.I.; PLAKSIONOV, N.P. LJBOCHKIN, B.I., obshchiy red.;  
ALEKSANDROV, L.A., red.izd-va; TIKHONOVA, Ye.A., tekhn.red.

[Manual for third-class mechanics of marine steamships]  
Uchebnoe posobie dlia mekhanika III razriada morskikh parovykh  
sudov. Pod red. B.I.Lambochkina. Izd.2., perer. Moskva, Izd-vo  
"Morskoi transport," 1958. 646 p. (MIRA 12:7)  
(Steamboats) (Marine engineering)

BOGOSLOVSKIY, Andrey Mikhaylovich; ZDANOVICH, Vasilii Leont'yevich;  
MATVEYEV, Yevgeniy Nikolayevich; MUMZI, Georgiy Fedorovich;  
MSHANETSKIY, Boris Antonovich; NEBESHOV, Viktor Ivanovich;  
NOVIKOV, Georgiy Nikolayevich [deceased]; NUD'GA, Pavel  
Korneyevich; SAPRYKIN, Aleksey Petrovich; SACHKOVSKIY,  
Georgiy Semenovich; FRENK, M.TS., obshchiy red.; MELKYEV,  
A.S., red.; TIKHONOVA, Ye.A., tekhn.red.

[Textbook for engineers on marine internal combustion engines]  
Uchebnoe posobie dlia mekhanika III razriada po sudovym dviga-  
teliam vnutrennego sgoraniia. Izd.2., perer. Pod obshchei red.  
M.TS.Frenka. Moskva, Izd-vo "Morskoi transport," 1959. 711 p.  
(Marine engineering) (MIRA 12:9)

GUBANOV, Vladimir Semenovich; ZOLOTAREVSKIY, Iosif Yakovlevich;  
SAPRYKIN, Anatoliy Vasil'yevich; LYUDSKOV, B.P., red.;  
GROMOV, A.S., tekhn. red.

[Containers; practical manual] Tara; prakticheskoe posobie.  
Moskva, Gos. izd-vo torg. lit-ry, 1961. 223 p. (MIRA 15:3)  
(Containers) (Freight and freightage)

10

CA SHAPRYKIN, F. Ya.

Mechanism of the aromatization (of hydrocarbon oils).  
 II. Thermal isomerization of the xylenes. A. F. Dobryanski and F. Ya. Shaprykin. *J. Gen. Chem.* (U. S. S. R.) 9, 1313-14 (1939); cf. *C. A.* 33, 4968<sup>3</sup>.—The pyrolysis of pure *o*-xylene (I), *m*-xylene (II) and *p*-xylene (III) at 700°, 730°, 750° and 770° gave in all cases a xylene fraction, PhMe, condensation products which were not investigated further, and a gas fraction. At all of the temps. investigated II proved to be most stable and I least stable. Oxidation of the xylene fractions to the corresponding phthalic acids revealed that during pyrolysis I underwent partial isomerization to II and some III, III underwent slight isomerization to II, while II remained unchanged, again indicating its greater stability. J. L.

Chem. Inst.,  
 Leningrad State U.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND GROUPS

3RD AND 4TH GROUPS

5TH AND 6TH GROUPS

7TH AND 8TH GROUPS

9TH AND 10TH GROUPS

11TH AND 12TH GROUPS

13TH AND 14TH GROUPS

15TH AND 16TH GROUPS

17TH AND 18TH GROUPS

19TH AND 20TH GROUPS

21ST AND 22ND GROUPS

23RD AND 24TH GROUPS

25TH AND 26TH GROUPS

27TH AND 28TH GROUPS

29TH AND 30TH GROUPS

31ST AND 32ND GROUPS

33RD AND 34TH GROUPS

35TH AND 36TH GROUPS

37TH AND 38TH GROUPS

39TH AND 40TH GROUPS

41ST AND 42ND GROUPS

43RD AND 44TH GROUPS

45TH AND 46TH GROUPS

47TH AND 48TH GROUPS

49TH AND 50TH GROUPS

51ST AND 52ND GROUPS

53RD AND 54TH GROUPS

55TH AND 56TH GROUPS

57TH AND 58TH GROUPS

59TH AND 60TH GROUPS

61ST AND 62ND GROUPS

63RD AND 64TH GROUPS

65TH AND 66TH GROUPS

67TH AND 68TH GROUPS

69TH AND 70TH GROUPS

71ST AND 72ND GROUPS

73RD AND 74TH GROUPS

75TH AND 76TH GROUPS

77TH AND 78TH GROUPS

79TH AND 80TH GROUPS

81ST AND 82ND GROUPS

83RD AND 84TH GROUPS

85TH AND 86TH GROUPS

87TH AND 88TH GROUPS

89TH AND 90TH GROUPS

91ST AND 92ND GROUPS

93RD AND 94TH GROUPS

95TH AND 96TH GROUPS

97TH AND 98TH GROUPS

99TH AND 100TH GROUPS



✓ Humic acids of some brown coals V. V. Tietchevskii and  
M. M. Sapozhnikova. Dokl. Akad. Nauk SSSR 1964, 197, 10, 1974  
1974, 197, 10, 1974

①

SOV/30-58-10-9/53

AUTHORS: Losev, B. I., Mel'nikova, A. N., Saprykin, F. Ya.,  
Troyanskaya, M. A., Bylyna, E. A.

TITLE: New Methods of Examining the Material Composition of Coal  
(Novyye metody izucheniya veshchestvennogo sostava ugley)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 10, pp 58-60 (USSR)

ABSTRACT: Research with the purpose of obtaining the most effective  
methods of extracting rare metals from coal was carried out at  
the Institut goryuchikh iskopayemykh Akademii nauk SSSR (Insti-  
tute for **Mineral Fuels** of the AS USSR). For this purpose,  
 $\gamma$ -rays, ultrasonics, and electro-hydro effects were used. The  
influence of the dose of radiation on the yield of germanium  
may be seen in table 1. The second method consists of ultra-  
sonic treatment of coal during its halogenation. The results  
of experiments with ultrasonic treatment of coal in water are  
listed in table 2. A more intensive disruption of the cohesive  
forces of rare elements in coal is obtained by the use of elec-  
tro-hydraulic effects. These experiments were carried out in the

New Methods of Examining the Material Composition of Coal

SOV/30-58-10-9/53

Effects of the Leningrad Polytechnic Institute) under the  
direction of L. A. Yutkin. There are 2 tables.

Card 2/2

SAPRYKIN F. Ya.

ПРИРОДНЫЕ КАРБИДЫ УРАНА  
В МАГМАТИЧЕСКИХ КРИСТАЛЛИЧЕСКИХ ПОРОДАХ  
И ИХ РОЛЬ В ОБРАЗОВАНИИ ПЕФТИ И БИТУМОВ

Ф. Я. Сапрыкин

VIII Mendeleev Congress for General and Applied Chemistry in  
Section of Chemistry and Chemical Technology of Fuels,  
publ. by Acad. Sci. USSR, Moscow 1979

abstracts of reports scheduled to be presented at above mentioned congress,  
Moscow, 13 March 1979.

GORDON, S.A., starshiy nauchnyy sotrudnik; SAPRYKIN, F.Ya.

Distribution of germanium and gallium in lignite. Nauch.  
trudy MGI no 27:13-25 '59. (MIRA 14:6)  
(Lignite) (Germanium) (Gallium)

LOSEV, B.I.; MEL'NIKOVA, A.N.; SAPRYKIN, F.Ya.; YUTKIN, L.A.

Crushing coal by the electrohydraulic method. Vest. AN SSSR 29  
no.6:62-65 Je '59. (MIRA 12:5)  
(Coal, Pulverized) (Electric discharges)

KOBYAKOVA, Z.I.; SAPRYKIN, F.Ya.

Chemical composition of some decapods from northern and Far Eastern seas according to data of spectroscopic analysis. Vest.LGU 15 no.9: 130-135 '60. (MIRA 13:4)

(DECAPODA (CRUSTACEA)) (MARINE BIOLOGY)

IVANOV, A.A.; SHESHUKOV, N.G.; SAPRYKIN, F.Ya.

Wood remains in salt deposits. *Sov.geol.* 6 no.8:107-111 Ag '63.  
(MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.  
(Trees, Fossil) (Salt deposits)



BELOPOL'SKAYA, T.L.; SAPRYKIN, F.Ya.; BARANOVA, I.O.

Methods for the determination of germanium in sulfide minerals and  
lead-zinc ores. Trudy VSEGEI 117:75-77 '64. (MIRA 17:9)

ZHIL'TSOV, Yu.K.; SAPRYKIN, F.Ya.; KOMAROVA, N.I.

Mode of the occurrence of uranium in Jurassic sandstones  
and the weathering surface of Archean granitoids lying  
beneath them. Sov.geol. 8 no.11 61-70 N '65.

(MIRA 19:1)

ZAPRYKIN, G.I.

Significance of the determination of the extent of hemorrhage in  
gynecological operations. Arch. i gin. no. 2:74-81 '65.

(JIRA 18:19)

1. Katedra akusnerstva i ginekologii (zav. - prof. V.A. Pokrovskiy)  
Voronezhskogo medicinskogo instituta.

LAPSHOV, V.N., kand. tekhn. nauk; SAPRYKIN, G.S., inzh.

Effectiveness of constructing steam and gas powered condensing  
power stations with 500 Mw. block units. Sbor. nauch. soob.  
SPI no.17:41-5) '62. (MIRA 17:6)

ANDRYUSHCHENKO, A.I., doktor tekhn.nauk, prof.; LAPSHOV, V.N., kand.tekhn.  
nauk; POPOV, A.I., inzh.; SAPRYKIN, G.S., inzh.

Effectiveness of using ultrahigh temperatures in steam and gas  
power systems with cooled gas turbines. Izv.vys.ucheb.zav.; energ.  
8 no.4:45-51 Ap '65. (MIRA 18:4)

1. Saratovskiy politekhnicheskij institut. Predstavlena kafedroy  
teploenergetiki.

L 63211-65 EWT(d)/EPA/EWT(m)/EWP(f)/EFF(n)-2/T-2/EWA(c)/ETC(m) WW

ACCESSION NR: AP5014148/  
4.5

UR/0143/65/000/005/0050/0056  
621.165 621.438

AUTHOR: Lapshov, V. N. (Candidate of technical sciences); Saprykin, G. S.  
(Engineer) 44.5  
29  
26  
B

TITLE: Determining the optimal air-pressure-rise ratio in the gas part of  
steam-gas plants with high-temperature gas turbines 20.44.5

SOURCE: IVUZ. Energetika, no. 5, 1965, 50-56

TOPIC TAGS: gas turbine, steam gas plant

ABSTRACT: A method is suggested for calculating the optimal air-pressure-rise ratio in the compressor of a steam-gas plant whose steam part is used for cooling the high-temperature (1000-1200C) gas-turbine part. The expansion process in the gas turbine is considered without referring to the characteristics of the turbine proper (W. Traupel, BWK, v. 14, no. 8, 1962). The method covers both conventional schemes of the above plant: (1) With a high-pressure steam

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ACCESSION NR: AP5014148

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generator and (2) With a waste-heat boiler supplied by the gas-turbine exhaust. Estimates obtained with typical numerical examples show that the use of high-temperature gas turbines permits enhancing the electrical net efficiency of the steam-gas plants up to 50% with an initial gas temperature of 1200C. With a compression ratio of 6-8, or with a gas temperature over 1500C, the intermediate heat supply to the gas part of the plant has but little effect. Orig. art. has: 5 figures and 25 formulas.

ASSOCIATION: Saratovskiy politekhnicheskii institut (Saratov Polytechnic Institute)

SUBMITTED: 18Apr64

ENCL: 00

SUB CODE: PR

NO REF SOV: 004

OTHER: 004

Card 2/2

SAPRYKIN, G.S., inzh.

Development of steam and gas systems abroad. Teploenergetika  
11. no. 9:76-79 S '64. (MIRA 18:8)



L 3178-66 EPA/EWP(f)/EPF(n)-2/T-2/ETC(m) WW

ACCESSION NR: AP5011575

UR/0143/65/000/004/0045/0051

621.311.22

AUTHOR: Andryushchenko, A. I. (Doctor of technical sciences, Professor); Lapshov, V. N. (Candidate of technical sciences); Popov, A. I. (Engineer); Saprykin, G. S. (Engineer)

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TITLE: Efficiency of using superhigh temperatures in steam-gas plants with cooled gas turbines

SOURCE: IVUZ. Energetika, no. 4, 1965, 45-51

TOPIC TAGS: power plant, steam gas power plant, gas turbine

ABSTRACT: The effects of the air pressure, initial temperature of working gas, and cooling intensity upon the net electrical efficiency of a high-pressure-steam-generator plant and a waste-heat-boiler-type plant are determined. The calculations show that, with the compressor pressure ratios attainable today, a two-stage heat supply to high-temperature gas turbines is rather inefficient. It is

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ACCESSION NR: AP5011575

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found that: (1) The steam-gas plants with high-temperature gas turbines having initial gas temperatures of 1200-1400C and 1600C permit attaining net electrical efficiencies of 50-52% and 55-56%, respectively; (2) Such plants should have a simplest scheme which would make for their reliability and low cost; (3) The high electrical efficiency and low cost per kw of such plants make them most promising in the future development of power engineering. Orig. art. has: 7 figures and 1 formula.

ASSOCIATION: Saratovskiy politeknicheskij institute. (Saratov Polytechnic Institute)

SUBMITTED: 07Sep64

ENCL: 00

SUB CODE: PR

NO REF SOV: 003

OTHER: 002

PC

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LAPSHOV, V.N., kand. tekhn. nauk; SAPRYKIN, G.S., inzh.

Determination of the optimal degree of air pressure increase  
in the gas section of steam and gas units with high temperature  
gas turbines. Izv. vys. ucheb. zav.; energ. 8 no.5:50-56  
My '65. (MIRA 18:6)

1. Saratovskiy politekhnicheskii institut. Predstavlena kafedroy  
teploenergetiki.

L 33444-66 EWT(1)/T IJP(c)

ACC NR: AP6021532

SOURCE CODE: UR/0143/66/000/006/0053/0062

AUTHOR: Saprykin, G. S. (Engineer)

ORG: Heat Power Department, Saratov Politechnical Institute (Kafedra teploenergetiki, Saratovskiy politekhnicheskii institut)

TITLE: Calculation of working process in a cooled gas turbine

SOURCE: IVUZ. Energetika, no. 6, 1966, 53-62

TOPIC TAGS: gas turbine, gas turbine cooling, turbine design, turbine efficiency

ABSTRACT: An analytical method is presented for calculating the gas expansion in a cooled gas turbine and for determining the energy losses due to cooling. Formulas are derived which make it possible to determine the actual work, inlet and exit gas temperatures, and the amount of heat lost to cooling. The formulas are sufficiently accurate and are recommended for the analysis and selection of cycle parameters and for designing power plants with high temperature gas turbines. Orig. art. has: 40 formulas and 6 figures. [AS]

SUB CODE: 21/ SUBM DATE: 17May65/ ORIG REF: 007/ OTH REF: 004/

ATD PRESS: 5123

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UDC: 621.438