

L 24483-66

ACC NR: AP6006988

Under the temperature conditions required, the vulcanization is accompanied by evolution of hydrogen halide (60% at 140C) which serves as a "built-in" accelerator of vulcanization. Mechanistic explanations of the reactions are offered. Orig. art. has: 5 figures, 1 equation, and 1 formula. 0

SUB CODE: 07, 11/ SUBM DATE: 24Mar65/ ORIG REF: 005/ OTH REF: 001

Card 2/2

P.B

SHERSHNEV, V.G., DUBINSKIY, A.A.

"Some Data on the Distribution of Radiophosphorus in the Blood of Patients who have been Treated with this Preparation" p. 264, in the book Experience in the Use of Radioactive Isotopes in Medicine R. Ye. KAVETSKIY and I.T. SHEVCHENKO, publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of conference held in KIEV from 18-20 January 1954.

So: 1100235

CHEREMISIN, V. G.

"The Condition of Blood Pressure in Various Vascular Regions  
(The Problem of the Existence of Hyper- or Hypotension)." Cand Med  
Sci, Khar'kov State Medical Inst, Khar'kov, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

*SHERSHNEV, V.G.*

DUBINSKIY, A.A., kand.med.nauk; SHERSHNEV, V.G., kand.med.nauk

Thyroid function test with radioactive iodine in peptic ulcer.  
Terap.arkh. 29 no.2:76-78 '57. (MLRA 11:1)

1. Iz kafedry fakul'tetskoy terapii lechebnogo fakul'teva (zav. -  
prof. S.Ya.Shteynberg) Khar'kovskogo meditsinskogo instituta.

(PEPTIC ULCER, physiology,  
thyroid radiiodine funct. test (Rus))  
(IODINE, radioactive,  
thyroid funct. test in peptic ulcer (Rus))  
(THYROID GLAND, function tests,  
radiiodine, in peptic ulcer (Rus))

SHERSHNEV, V.G., dotsent

Use of oxyhemography in the determination of the intensity  
of tissue gas exchange. Vrach. delo no.12:31-34 D '63.  
(MIRA 17:1)

1. Kafedra fakul'tetskoy terapii (zav. - prof. S.Ya.  
Shteynberg) lechebnogo fakul'teta Khar'kovskogo meditsinskogo  
instituta.

SHERSHNEV, V. P.

117-58-6-9/36

AUTHORS: Balats, D.S., Shershnev, V.P., Morozov, I.L., Engineers

TITLE: Increasing the Wear Resistance of the Bearing Settings in the Frames of Face Machines (Povysheniye iznosostoykosti posadochnykh mest pod podshipniki v korpusakh zaboynykh mashin)

PERIODICAL: Mashinostroitel', 1958, Nr 6, pp 19-20 (USSR)

ABSTRACT: The worn bearing-settings in face machines were repaired formerly in the following way: a 5-mm layer of the metal was removed, and then new metal fused-on by means of the TsM-7 electrodes. This new metal is then machined. The process of repairing the setting in this way is very difficult. In the Rutchenkovsk Plant imeni N.S. Krushchëv two apparatuses (Figure 2-3) were developed: a floating reamer and a floating roller. The repair process is now carried out in the following way: electric fusing on the worn surface; rough boring with an allowance of 0.15-0.25 mm; clean boring (with the reamer) with an allowance of 0.01-0.25 mm; finishing by means of the special floating roller. This method is used for repairing settings under the bearings with a diameter of 90-220 mm. The

Card 1/2

117-58-6-9/36

Increasing the Wear Resistance of the Bearing Settings in the Frames of  
Face Machines

new method increases the wear resistance of the settings  
3-4 times and the period between overhauls 2-3 times. There  
are 2 figures.

ASSOCIATION: Rutchenkovskiy zavod imeni N.S. Krushchëva (Rutchenkovsk  
Plant imeni N.S. Khrushchev )

AVAILABLE: Library of Congress  
Card 2/2 1. Machines-Bearing settings-Maintenance

SHKESHNEV, Yevgeniy Grigor'yevich; PANKOVA, V.M., redaktor; KIRSANOVA, N.A.,  
tehnicheskij redaktor

[Resources of the entire organized group] Silami vsego kollektiva.  
[Moskva] Izd-vo VTsSPS Profizdat, 1956. 39 p. (MLRA 9:10)

1. Master Moskvoskogo zavoda imeni Vladimira Il'icha.  
(Efficiency, Industrial)



SHERSHIEV, Yevgeniy Sergeyevich; CHISTOV, V.V., red.; KAKHOVSKAYA, O.G.,  
red.izd-va; GURKIN, V., tekhn.red.

[Economy and foreign trade of the Federal Republic of Germany]  
Federativnaya Respublika Germanii; ekonomika i vneshniaya  
torgovlia. Moskva, Vneshtorgizdat, 1960. 183 p.

(MIRA 14:2)

(Germany, West--Economic conditions)

LUKASHEVICH, G.I [Lukashevych, H.I.], kand. tekhn. nauk; SHERSHNEV, Ye.S.  
[Shershn'ov, I.E.S.]; SKVARIK, V.P. [Skvaryk, V.P.], kand. tekhn.  
nauk

Ways to lengthen the service life and improve the reliability of  
machinery in light industries. Leh. prom. no.1:28-32 Ja-Mr '65.  
(MIRA 18:4)

TRUKHANOVSKIY, D.S.; SHERSHNEVA, A.I.

Cultivation of the Amur cork tree by seed. Biul. Inst. biol.  
AN BSSR no.6:49-55 '61. (MIRA 15:3)  
(WHITE RUSSIA--AMUR CORK TREE)

SHERSHNEVA, A.N., in-b.

Effect of some design elements on axial forces of a centrifugal  
blower stage. Teploenergetika 12 no.8:78-82 Pg 165. (MIRA 18:9)

1. Leningradskiy politekhnicheskij institut.

S/114/63/000/004/001/005  
A004/A127

AUTHORS: Ris, V.F., Den, G.N., Candidates of Technical Sciences,  
Shershneva, A.N., Engineer

TITLE: The effect of flow on the runner of the centrifugal stage

PERIODICAL: Energomashinostroyeniye, no. 4, 1963, 14 - 17

TEXT: The authors analyze a force system which is applied to the runner of single-stage centrifugal force pumps with a shell located immediately behind the runner. They point out that such a layout of the shell results inevitably in a disturbance of the axial symmetry of flow, which can be confirmed by a simple qualitative analysis of the flow in the shell. Calculating the stress acting on the runner in the absence of an axial symmetry of flow round the wheel and the pressure changes near the runner along the periphery and radius, the authors present appropriate formulae and experimental data characterizing the aerodynamic stress acting on the runner. There are 6 figures and 1 table.

Card 1/1

SHERSHNEVA, A. N.

Characteristics of pseudokarst relief forms in the southern regions  
of Pskov Province. Izv. Vses. geog. ob-va 96 no. 2:133-136 Mr-Ap '64.  
(MIRA 17:5)

RIS, V.F.; Prinsipali uchastiye; DEN, G.N., kand. tekhn. nauk;  
SHERSHNEVA, A.N., inzh.; STRAKHOVICH, K.I., doktor  
tekhn. nauk, prof., retsenzent

[Centrifugal compressor machines] Tsentrobezhnye kompres-  
sornyye mashiny. 2. perer. izd. Moskva, Mashinostroenie,  
1964. 334 p. (MIRA 18:3)

SHERSHNEVA, A.N.

Brown turf-podzolic soils as the stage of the development of soil  
cover in the western province of mixed forests in the U.S.S.R.  
Uch. zap. Ped. inst. Gerts. 244:97-115 '63.

(MIRA 18:3)



AFONSKAYA, M.O.; SHERSHNEVA, A.N.

The all-Russian conference on students' field practice. Izv.  
Vses. geog. ob-va 97 no.1:102-103 Ja-F '65.

(MIRA 18:3)

ACC NR: AP6031395

SOURCE CODE: UR/0114/66/000/009/0002/0006

AUTHORS: Ris, V. F. (Doctor of technical sciences); Den, G. N. (Candidate of technical sciences); Shershneva, A. N. (Candidate of technical sciences); Tilevich, I. A. (Engineer)

ORG: none

TITLE: Some work of the Nevskiy Machine Building Works in studying the flow part of centrifugal compressor machines

SOURCE: Energomashinostroyeniye, no. 9, 1966, 2-6

TOPIC TAGS: centrifugal compressor, multistage compressor, exhaust diffuser, gas dynamics, compressor rotor

ABSTRACT: The results from studies of the flow parts of centrifugal compressor machines are given. The effect of intake chambers at various periods of time were studied. Tests of a final stage with a pump-type rotor with a short bladeless diffuser and a symmetric pear-shaped helix made in the presence of an intake chamber and with axial intake gave practically identical results (see Fig. 1). The effect of certain rotor parameters is studied on the basis of an earlier work of V. F. Ris (Tsentrobeznyye kompressornyye mashiny. Izd. Mashinostroyeniye, 1964). It is found that when the exit angle  $\beta_2$  is increased from 15 to 90° the efficiency of the final

Card 1/3

UDC: 621.515.001.5

ACC NR: AP6031395

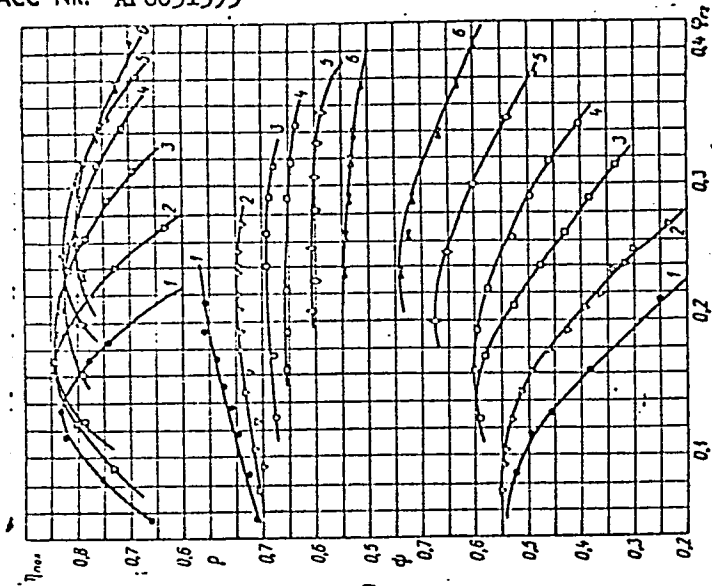


Fig. 2. Effect of exit angle  $\beta_2$  for identical fixed elements of flow part of stage and  $b_2/D_2 = 0.05$ : 1 -  $15^\circ$ ; 2 -  $22.5^\circ$ ; 3 -  $32^\circ$ ; 4 -  $45^\circ$ ; 5 -  $63^\circ$ ; 6 -  $90^\circ$

Orig. art. has: 11 graphs, 2 tables, and 4 formulas.

SUB CODE: 13/

SUBM DATE: none/

ORIG REF: 002/

OTH REF: 001

Card 3/3

GRUDEV, Dmitriy Ivanovich; BALAKIN, V.M., red.; SHESHNEVA, E.A.,  
tekhn. red.

[Organization of breeding work in swine raising] Organizatsiia  
plemennoi raboty v svinovodstve. Moskva, Izd-vo M-va sel'-  
khoz.RSFSR, 1962. 137 p. (MIRA 17:1)

L 24492-66 EWT(m)/EWP(j)/T IJP(c) NW/RM  
ACC NR: AP6006977 (A) SOURCE CODE: UR/0190/66/008/002/0240/0246

AUTHORS: Kavalynas, R. I.; Shershneva, G. D.; Livshits, R. M.; Rogovin, Z. A.

ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut)

TITLE: Synthesis, characterization, and certain properties of cellulose acetates and poly-2-methyl-5-vinylpyridine graft copolymers (193rd report in the series "Study of the structure and properties of cellulose and its derivatives")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 240-246

TOPIC TAGS: cellulose plastic, graft copolymer, redox reaction

ABSTRACT: Synthesis and properties of graft copolymers of secondary cellulose acetate (I) and cellulose triacetate (II) with poly-2-methyl-5-vinylpyridine (III) are described. The products are of interest because the presence of III (containing ionogenic groups) imparts to I and II such valuable properties as enhanced adhesion, ion exchangeability, and antistatic behavior. The graft copolymerization was performed according to the method described in an earlier paper by B. P. Morin, Yu. G. Kryazhev, and Z. A. Rogovin (Vysokomolek. soyed., 7, 1463, 1965). This method involves thermal decomposition of peroxides prepared by oxidation of

Card 1/3

UDC: 541.64+661.728.82+678.746

L 24492-66

AGC NR: AP6006977

the polymers  $H_2O_2-Fe^{2+}$  (or  $Fe^{3+}$ ) redox system. Content of III in the product is determined by the concentration of  $H_2O_2$  and by the time of oxidation. Material containing up to 64% of grafted III was obtained. However, about 70% of cellulose acetates does not enter the reaction. Solubility of graft copolymer of I and III and solubilities of I, III, and the mechanical mixture of I and III, were investigated by turbidometric titration, and the results are summarized in Fig. 1.

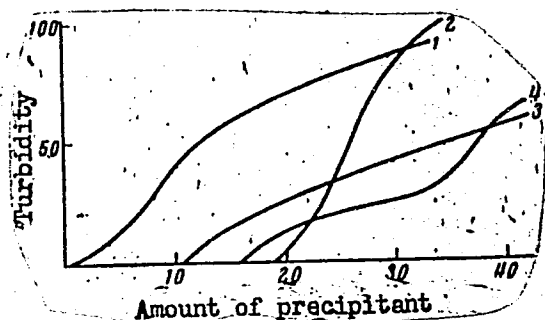


Fig. 1. Turbidity as a function of the amount of the precipitant. Precipitant - petroleum ether; concentration of the initial solution 0.005 g/ml; temperature 25°C; feed-0.2 ml/l cycle; operating cycle 170 sec. Amount of initial solution 50 ml. 1 - graft copolymer; 2 - III; 3 - I; 4 - mechanical mixture of I and III.

Viscosity of the graft copolymer exceeds that of either homopolymer. Addition of the graft copolymer to the mechanical mixture of I and II with III results in

Card 2/3

L 24492-66  
ACC NR: AP6006977

stable solutions. The authors express their gratitude to G. I. Volkova of MTIMMP laboratory for performing turbidimetric titrations. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 07/      SUBM DATE: 25Feb65/      ORIG REF: 006/      OTH REF: 003

Card 3/3 *LC*

SHERSHNEVA, G. M., Cand Med Sci (diss ) -- "Age changes in the structure of the submaxillary ganglion of the trigeminal nerve". Irkutsk, 1960. 20 pp (Irkutsk State Med Inst), 250 copies (KL, No 14, 1960, 139)



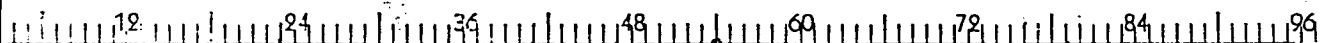
LEBZIN, V.V.; IMYANIN, R.F.; SHERSHNEVA, N.F.

New developments in supplying buildings under construction with materials and equipment. Vych. i org.tekh. v stroi. i proekt. no.7:21-26 '64. (MIRA 18:10)

1. Gosudarstvennyy institut tipovogo i eksperimental'nogo proyektirovaniya i tekhnicheskikh issledovaniy Gosstroya SSSR.

ZHELTAKOV, A.; SHERSHNEVA, V.

Technology of Vologda (region) butter. Molochnaya Prom. 14, No.5,  
12-18 '53. (MLRA 6:4)  
(CA 47 no.15:7688 '53)



11/11/57 - 10, V.

U.S.S.R.

Quality of ripened cream butter as a function of pH of plasma: V. Shersheva. *Molochnaya Prom.* 16, No. 1, 24-5 (1953). To secure desirable flavor and aroma in butter churned from *Streptococcus diacetylactis*-ripened cream, it was found necessary to maintain pH 5.0-5.7 in the watery phase of butter. This was accomplished either by fermentation of cream or by addn. of starter, fortified with 5-30 ml. of 43% lactic acid/l. of starter. V. N. Krukovskiy

SHERSHNEVA, Vera Il'inichna; ZHELTAKOV, A.I., kand.tekhn.nauk, spetsredaktor;  
IVANOVA, N.M., red.; SOKOLOVA, I.A., tekhn.red.

[Production of sour cream butter] Proizvodstvo kisloslivochnogo  
masla. Moskva, Pishchepromizdat, 1957. 61 p. (MIRA 11:5)  
(Butter)

SHERSHNEVA, V. I., Cand of Sciences --- (diss) "Factors Influencing  
the Formation and Preservation of the Aroma of Sour Cream Butter,"  
Leningrad, 1959, 24 pp (Ministry of Higher and Secondary Specialist  
Education RSFSR. Leningrad Technological Institute of the Refrigeration  
Industry.) (KL, 6-60, 123)

3.11.10.11.11

How a modern war-ship is built Moskva, Voen. izd-vo, 1947. 54 p. (50-24779)

V767.S48

SHERSHOV, A.P., professor,

Development of Russian shipbuilding during the period from 1850 to  
1917. Sudstroenie 23 no.5:1-6 My '57. (MIRA 10:6)  
(Leningrad--Shipbuilding)

L 29129-65. EWP(e)/EWT(m)/EWP(t)/EWP(b) Pg-4 IJP(c) JD/JG/WH

31  
30  
3

ACCESSION NR: AP5004251

8/0021/65/000/001/0070/0073

AUTHOR: Levina, M. E. (Levina, M. Ye); Shershov, B. S. (Shershav, B.S.)

15

TITLE: Transmission spectra of glasses of the system  $\text{NaBeF}_3\text{-NaPO}_3$  and  $\text{KBeF}_3\text{-KPO}_3$

SOURCE: AN UkrRSR. Doprvidi, no. 1, 1965, 70-73

TOPIC TAGS: fluoride, phosphate glass, beryllium glass, transmission coefficient, refractive index, ultraviolet spectrum

27

15

ABSTRACT: The authors have studied the transmission spectra and refractive indices of glasses with composition  $\text{NaBeF}_3\text{-NaPO}_3$  and  $\text{KBeF}_3\text{-KPO}_3$ , in view of the isomorphism of fluorine compounds of beryllium with certain silicates. The beryllium-phosphor glasses were obtained by melting the components in a platinum crucible at temperatures 500 and 550° and soaking them at these temperatures for 20 minutes. The mass was then poured in a platinum mold and stamped in the form of rectangular plates measuring 8 x 4 x 3 mm. The transmission spectra were taken with an SF-4 spectrophotometer, and the refractive indices were measured with the IRF-22 refractometer. Both types of glass are opaque in ultraviolet up to 280--285 nm; the

26

15

Card 1/2



L 29129-65

ACCESSION NR: AP5004251

transmission then increases and becomes constant above 320--350 nm. Glasses of  $\text{KBeF}_3\text{-KPO}_3$  system, containing from 90 to 30 mol.%  $\text{KBeF}_3$ , are transparent, do not absorb moisture from the air, and can be readily polished. The refractive index of the glass increases with increasing  $\text{KPO}_3$  content from 1.3445 to 1.5015 as the molar percentage of  $\text{KPO}_3$  increases from 10 to 90. The refractive index of the  $\text{NaBeF}_3\text{-NaPO}_3$  glass increases from 1.3285 to 1.4790 as the percentage of  $\text{NaPO}_3$  increases from 10 to 90. This report was presented by E. O. Shylov. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Moskovskyy derzhavnyy universytet (Moscow State University)

SUBMITTED: 22Apr64

ENCL: 00

SUB CODE: OP

NR REF SOV: 001

OTHER: 004

Card 2/2

Shershov, S. F.

Trukhanov, A. A., Shershov, S. F., Rozenman, A. S., Kheyster, I. M. , Gluzunov, A. A., and Gludinskiy, P. G. Participated in a discussion on the "Waste of Metal and Decreasing the Power Losses in the Electrification System of the USSR"

Moscow Power Engineering Institute imeni Molotov (MPEI),  
SO: Elektrichestvo, No. 5, 1947; (W-27801, 14 Sept. 1953)

SHERSKOV, S. F.

Leninsko-Stalinskaya Elektrifikatsiya SSSR (Lenin-Stalin Electrification of the USSR), Moskva, Gosenergoizdat, 1951, 271 pages. illus., ~~Maps~~. Maps, Tables.

N/5 663.2 .S5

PRUZNER, Saul L'vovich; KALININ, Georgiy Aleksaeyevich; SHERSHOV, Sergey  
Fedorovich; PETROV, D.V., redaktor; FRIDKIN, A.M., tekhnicheskii  
redaktor

[Economics and organization of power production] Ekonomika i  
organizatsiia energeticheskogo proizvodstva. Moskva, Gos. en.erg.  
izd-vo, 1956. 368 p. (MIRA 9:3)  
(Electric power)

~~SHERSHOV, Sergey Fedorovich~~; GORTINSKIY, S.M., redaktor; CHERNOV, V.S.,  
tekhnicheskij redaktor.

[White coal] Belyi ugol'. Moskva, Gos.energ.izd-vo, 1957. 92 p.  
(MIRA 10:11)  
(Hydroelectric power stations)

3-2-11/32

AUTHOR: Andrianov, D.P., Doctor of Economics,  
Shershov, S.F., Dotsent, Candidate of Technical Sciences

TITLE: In Search of Means to Improve the Economic Training of Future  
Engineers (V poiskakh putey uluchsheniya ekonomicheskoy pod-  
gotovki budushchikh inzhenerov)

PERIODICAL: Vestnik vysshey shkoly, Feb 1957, " 2, p 41-47 (USSR)

ABSTRACT: In general the article deals with deficiencies in the teaching  
of economics at the Ural Polytechnical Institute and with the  
measures adopted to eliminate them. This institute, the big-  
gest in the Ural region, trains metallurgical engineers, build-  
ing engineers, chemists, mechanics, electrical engineers, radio-  
technicians, economists and other specialists. The article  
tells of the liaison between the Chair of Economics and Soviet  
Industry, and on the inadequacy of the means of instruction.  
In developing measures to improve the training in economics  
the Administration of the Institute was guided by the direct-  
ives of the 20th Congress of the Soviet Communist Party. Some  
of the measures are: In all faculties, except two, the phy-  
sico-technical and power engineering, instruction courses in  
"Economics of the Individual Branches" and "Organization and  
Planning of Production" were introduced: Attention was also

Card 1/3

3-2-11/32

In Search of Means to Improve the Economic Training of Future Engineers

Some teachers of the Chair of Economics and Production Organization, for instance Professor A.S. Osintsev, Dotsents V.I. Ganshtak, P.A. Zhukov, I.A. Rozenberg, A.M. Vershinin and others, regularly publish their works on these subjects. In Nov/Dec 1956, practical training for the students of the metallurgical, mechanical and radio-technical faculties in Sverdlovsk was provided for at the Uralmashzavod, the Ural Turbo-Motor Works (Ural'skiy turbomotornyy zavod), the Verkh-Isetskiy [Sverdlovsk] Metallurgical Works (Verkh-Isetskiy metallurgicheskiy zavod), and in the Verkhaya Pyshma Works. This article is based on the results of a study by the Commission of the Chief Administration for Polytechnical and Machine Construction Educational Institutions of the Ural Polytechnical Institute, on the economic training of students.

ASSOCIATION: Ural Polytechnical Institute (Ural'skiy politekhnicheskiy institut)

AVAILABLE: Library of Congress

Card 3/3

SHERSHOV, Sergay Fedorovich, dotsent, kand.tekhn.nauk; PRUZNER, Saul  
L'vovich, dotsent, kand.tekhn.nauk; ZAVADSKIY, Ivan Mikhaylovich,  
dotsent; NELIDOV, I.Ye., red.; BORUNOV, N.I., tekhn.red.

[Economics and organization of power production] Ekonomika i  
organizatsiia energeticheskogo proizvodstva. Pod obshchei red.  
S.F.Shershova. Moskva, Gos.energ.izd-vo, 1959. 463 p.  
(MIRA 13:2)

(Power engineering)



8(6)

AUTHOR:

SOV/143-59-2-16/19  
Shershov, S.F., Docent, Candidate of Technical Sciences

TITLE:

The Production of Electric Power in the USSR During World War II (Elektroenergeticheskoye proizvodstvo v gody velikoy otechestvennoy voyny)

PERIODICAL:

Izvestiya vysshikh uchebnikh zavedeniy - Energetika, 1959, Nr 2, pp 120-125 (USSR)

ABSTRACT:

The author reviews the production of electric power in the USSR during WW II. When the German armies entered the territory of the USSR, numerous power plants were dismantled and their equipment was shipped in about 11,000 RR cars to the eastern regions, where the enlargement of existing power plants and the construction of new ones was speeded up simultaneously. The construction of power plant buildings was continued in winter, even during the most adverse weather conditions. During the War, mainly thermal power plants were built, since the time required for their construction is shorter than for hydroelectric

Card 1/3

SOV/143-59-2-16/19

The Production of Electric Power in the USSR During World War II

3 tables.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskiy institut  
(Moscow Lenin Order Institute of Power Engineering)

PRESENTED: Kafedra ekonomiki promyshlennosti i organizatsii  
predpriyatiy (~~Chair~~ of Industrial Economics  
and Organization of Enterprises)

SUBMITTED: July 10, 1958

Card 3/3

SHKRSHOV, Sargey Fedorovich; GORTINSKIY, S.M., red.; BORUNOV, N.I.,  
tekhn.red.

[Soviet electric power production] Sovetskaya elektroenergetika.  
Moskva, Gos.energ.izd-vo, 1960. 140 p.

(MIRA 14:4)

(Electric power)

KONSON, Aron Solomonovich; ~~SHERSHOV, S.F.~~, dotsent, retsenzent; ~~KAZOVSKIY,~~  
Ye.Ya., kand.tekhn.nauk, retsenzent; FAYERMAN, A.I., dotsent, red.;  
SOBOLEVA, Ye.M., tekhn.red.

[Economics of the electric industry of the U.S.S.R.] Ekonomika  
elektrotekhnicheskoi promyshlennosti SSSR. Moskva, Gos.energ.izd-vo,  
1960. 296 p. (MIRA 14:1)

1. Mskovskiy energeticheskiy institut im. Molotova (for Shershov).
2. Zavod "Elektrosila" (for Kazovskiy).  
(Electric industry)

SHERSHOV, S.F., kand.tekhn.nauk

Review of N.S.Afonin's book "Reliability of power supply  
to industrial plants." Elek.sta.31 no.1:94-95 Ja '60.  
(MIRA 13:5)

(Electric power distribution)

SHERSHOV, S.F., dotsent, kand.tekhn.nauk

Is the district electric power station an enterprise, or a section of the power system? Izv. vys. ucheb. zav.; energ. 3 no. 7:142-145 J1 '60. (MIRA 13:8)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedroy ekonomiki promyshlennosti i organizatsii predpriyatiy. (Electric power stations)

SHERSHOV, S.F. (Moskva)

From the plan of the State Commission on the Electrification  
of Russia to the seven-year plan. Fiz. v shkole 20 no.2:5-14  
Mr-Apr '60. (MIRA 14:5)  
(Russia--Electrification)

SHERSHOV, S.F., kand.tekhn.nauk

Economic principles of power engineering in plans for the electrification of the U.S.S.R.; for the 40th anniversary of the plan of the State Commission for the Electrification of Russia. Izv. vys. ucheb. zav.; energ. 4 no.2:1-6 F '61. (MIRA 14:3)

1. Moskovskiy ordena Lenina energeticheskiy institut.  
(Electrification)



SHERSHOV, S.F., kand.tekhn.nauk

Problems of economy in the future development of electric power.  
Teploenergetika 8 no.1:3-7 Ja '61. (MIRA 14:4)

1) Moskovskiy energeticheskiy institut.  
(Electric power)

SHERSHOV, S.F., kand.tekhn.nauk, dotsent

Time in which an item pays for itself and errors connected with its interpretation. Izv.vys.ucheb.zav.; energ. 5 no.4:118-125 Ap '62. (MIRA 15:5)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedroy ekonomiki promyshlennosti i organizatsii predpriyatiya. (Electric power plants--Accounting)

SERSOV, S.F. [Sharshov, S.F.], C.Sc.

Problems of economy in the prospective development of power engineering in the Soviet Union. Bul EGU no.4:21-22 '62.

1. Moskovsky energeticky ustav.

SHERSHOVA, F.M., inzhener; SARKISOV, G.M., inzhener; SEMENOV, N.I., inzhener.

Protecting railroads from washouts. Put' i put. khoz. no.7:22-23  
Jl '57. (MLBA 10:8)

(Soviet Central Asia--Railroads)

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda, brigadir; LEBEDEVA, A.T., zven'ev. Geroy Sotsialisticheskogo Truda; KOLYADINA, A.A.; GUSEVA, N.F.; GUBANOVA, M.T.; GURENKO, A.G., svinar'; SVIRIDOV, I.G., svinar'; SHERSHOVA, M.V., zootekhnik; GORIN, D.P.; TAMBOVTSEV, P.K.; ULIN, I.; SAYTANIDI, L.D., tekhn. red.

[Leaders of socialist competition from Voronezh tell their stories]  
Rasskazyvaiut peredoviki-voronezhtsy. Moskva, Izd-vo M-va sel'khoz.  
RSFSR, 1960. 54 p. (MIRA 14:11)

1. Brigada kompleksnoy mekhanizatsii kolkhoza imeni Kirova Voronezhskoy oblasti (for Manukovskiy).
  2. Kolkhoz "Rossiya" Voronezhskoy oblasti (for Lebedeva, Shershova).
  3. Ryadovyye zvena vysokoy proizvoditel'nosti kolkhoza imeni Stalina Voronezhskoy oblasti (for Kolyadina, Guseva).
  4. Zven'yevaya kolkhoza imeni S.M. Kirova Voronezhskoy oblasti (for Gubanova).
  5. Sovkhoz "Vorob'yevskiy" Voronezhskoy oblasti (for Gurenko).
  6. Sovkhoz "Maslovskiy" Voronezhskoy oblasti (for Sviridov).
  7. Predsedatel' kolkhoza "Podgornoye" Voronezhskoy oblasti (for Gorin).
  8. Direktor sovkhoeza "Vtoraya pyatiletka" Voronezhskoy oblasti (for Tambovtsev).
- (Voronezh Province—Stock and stockbreeding)  
(Socialist competition)

BAGRINTSEVA, K.I., SHERSHUKOV, V.V.

Relationship between the gas potential of layers and the  
tectonic pattern of coal deposits. Razved. i okh. nedr 25  
no.12:7-12 D '59. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gazovoy  
promyshlennosti (for Bagrintseva). 2. Institut gornogo  
dela AN SSSR (for Shershukov). . .  
(Gas, Natural-Geology) (Coal geology)

BAGRINTSEVA, K.I.; SHERSHUKOV, V.V.

Gas concentration in adjoining rocks and their significance in the  
natural elimination of gas from coal seams. Ugol. 35 no. 4:36-38  
Ap '60. (MIRA 14:4)

(Mine gases) (Cases in rocks)

SHERSHUKOV, V.V.

Study of fractured rocks in the mines of the Noril'sk region.  
Sov. geol. 6 no.10:122-126 0 '63. (MIRA 17:1)

1. Institut gornogo dela AN SSSR.



ETTINGER, I.L.; MATVIYENKO, N.G.; SHERSHUKOV, V.V.

Increase of the sorption activity of coals of the Noril'sk deposit caused by an ore-bearing intrusion. Dokl.AN SSSR 148 no.4:925-928 F '63. (MIRA 16:4)

1. Institut gornogo dela im. A.A.Skochinskogo. Predstavleno akademikom L.D.Shevyakovym.  
(Noril'sk region—Coal geology) (Sorption)

СНИ-НА, автор Николай Владимирович ДИСТАНТОВ, Алексей Сергеевич  
Москва, 1965.

[Automatic dispensing of reagents in the processing of  
industrial wastes and in water preparation] Автомати-  
ческое дозирование реагентов при обработке сточных  
вод и водоподготовке. Москва, Строиздат, 1965. 222 p.  
(NIRA 18:5)

TSIKLAURI, David Semenovich, dots., kand. tekhn. nauk; VOLOD'KO,  
I.F., kand. tekhn. nauk, nauchn. red.; SHERSHUKOVA,  
M.A., red.

[Water supply for fields and pastures] Polevoe i past-  
bishchnoe vodosnabzhenie. Moskva, Stroiizdat, 1964. 162 p.  
(MIRA 17:5)

TSIKLAKAI, David Semenovich, dots., kand. tekhn. nauk; VOLOD'KO,  
I.F., kand. tekhn. nauk, nauchn. red.; SHERSHUKOVA, M.A.,  
red.

[Water supply in fields and pastures] Polevoe i pastbishch-  
noe vodosnabzhenie. Moskva, Stroiizdat, 1964. 162 p.  
(MIRA 17:9)

17(4)

AUTHOR:

Shershukova, O. P.

SOV/20-127-1-58/65

TITLE:

Chromosome Number in *Ulmus pinnato-ramosa* Dieck. et Koehne  
(Chislo khromosom u *Ulmus pinnato-ramosa* Dieck. et Koehne)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 210-212  
(USSR)

ABSTRACT:

A survey of the elm (*Ulmus*) species (Ref 1) is given initially. In spite of the great variety of species (50 are described), the family is cytologically insufficiently investigated. There are species with a haploid chromosome set of 14 chromosomes (*U. montana*, *U. americana*, *U. campestris*; Ref 3). Then, however, 15 chromosomes (with *U. pumila* and *U. fulva*) were found in a heterotypic division, and finally 28-30 chromosomes (*U. americana*, Ref 5) in a homeotypic division. These results are regarded as preliminary ones (Ref 4). It was found (Ref 6) that all the investigated species and subspecies (including the species mentioned in the title) have a haploid chromosome number of 14. In this connection the author assumes that the somatic chromosome number of the investigated species ( $2n$ ) 28 is equal.

Card 1/3

Chromosome Number in *Ulmus pinnato-ramosa* Dieck. et  
Koehne

SOV/20-127-1-58/65

This is confirmed by reference 7 for several species, only for *U. americana* and *U. turkestanica* the somatic chromosome number is 56. What the foreign botanists understand by *U. turkestanica* has, however, hitherto remained unclear; sometimes this denotation is used for the species mentioned in the title. It is a culture species in the Kazakhstan and in Soviet Central Asia. It is closely related to the *U. pumila* L., an uncultivated species of East-Siberia and the Far East. Either species belongs to the section *Madocarpus* Domort, the series *Pumilae* C.K.Schn., and the subsection *Foliaceae* C.K.Schn. The species mentioned in the title is not regarded as an independent species by all systematics. It is often regarded as variety (Ref 2) by foreign publications or as a synonym to other species respectively. Apart from its unclear systematic position, *U. pinnato-ramosa* is quickly growing and drought-resistant to a great extent. This elm is of great interest for steppe reforestation. For determining the chromosome number the author used one-year-old plants of seeds collected in the Dzhanybekskiy station of the institute mentioned in the Association, in the West-Kazakhstan (supplied by Mrs. S. D. Erpert). The somatic chromosome number

Card 2/3

Chromosome Number in *Ulmus pinnato-ramosa* Dieck. et  
Koehne

SOV/20-127-1-58/65

28 ( $2n = 28$ ) (Figs 1, 2) was microscopically determined in preparations. Sometimes there were only 27 (Fig 3). *U. pinnato-ramosa* belongs therefore to the category of diploid species with a haploid chromosome number of 14 which is characteristic of the entire *Ulmus* genus. The determined chromosome number corresponds to that of *U. pumila*. This must, however, not be regarded as a direct proof of the identity of these two species. The author assumes that the mentioned chromosome number of *U. turkestanica* ( $2n = 56$ ) does not characterize this species, but spherically shaped subspecies as *U. densa* Litw. and *U. Androssowii* Litw. P.K. Shkvarnikov and I. A. Grudzinskaya helped to prepare the manuscript for printing. There are 3 figures and 8 references, 2 of which are Soviet.

ASSOCIATION: Institut lesa Akademii nauk SSSR (Forestry Institute of the Academy of Sciences, USSR)

PRESENTED: January 15, 1959, by V. N. Sukachev, Academician

SUBMITTED: January 14, 1959  
Card 3/3

SHERSHUKOVA, Z.S.

Ornithogeographical maps at the conference on atlases of the  
republics, territories, and provinces. Ornitologia no.5:  
446-447 '62. (MIRA 16:2)  
(Birds—Geographical distribution—Maps)



SHERSHUL'SKAYA, L.V. (Moskva, B-218, 4-ya Cheremushkinskaya ul., 11/11, kv.193)

Specific tumor antigen adsorption on erythrocytes. Vop.onk.  
4 no.2:137-140 '58. (MIRA 12:8)

1. Iz virusologicheskoy laboratorii (zav. - deystvitel'nyy chlen  
AMN SSSR prof.L.A.Zil'ber) Gosudarstvennogo onkologicheskogo  
instituta im. P.A.Gertsena (dir. - prof.A.N.Novikov, nauchnyy  
rukovoditel' - chlen-korrespondent AMN SSSR prof.A.I.Savitskiy).  
(NEOPLASMS, immunol.

adsorption of specific antigen of human tumors  
on erythrocytes (Rus))

SHERSHUL'SKAYA, L.V. (Moskva, b-218, Cheremushinskaya ul. d.11/11, kv.193)

Studies on specific antigens of human malignant tumors in passive anaphylactic reaction. [with summary in English]. Vop.onk. 4 no.3:259-263 '58 (MIRA 11:8)

1. Iz virusologicheskoy laboratorii (zav. - deystvitel'nyy chlen AMN SSSR prof. L.A. Zil'ber) Gosudarstvennogo onkologicheskogo instituta im. Gertsena (dir. - prof. A.N. Novikov, nauchn.rukovoditel' - chlen-korrespondent AMN SSSR prof. A.I. Savitskiy).

(NEOPLASMS, immunology,  
passive anaphylactic reaction (Rus))

SHERSHUL'SKAYA, L.V.

BERGOL'TS, V.M., SHERSHUL'SKAYA, L.V.

Antigenic properties of the so-called "human leukemia factor" passed through chick embryo chorionic membranes [with summary in English]. Biul.eksp.biol. i med. 45 no.5:84-89 My '58 (MIRA 11:6)

1. Iz virusologicheskoy laboratorii Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena (dir. - prof. A.N. Novikov; nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR A.I. Savutskiy), Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR L.A. Zil'berom.

(LEUKEMIA, immunology,  
antigenic properties of leukemia factor passed on  
chick embryo chorionic membranes (Rus))

SHERSHUL'SKAYA, L.V.; VADOVA, A.V.; NARTSISSOV, N.V.; BIRYULINA, T.I.

Acquired immunological tolerance to antigens of normal and neoplastic  
human tissue. Vop.onk. 6 no.9:3-9 S '60 (MIRA 14:1)  
(TUMORS) (ANTIGENS AND ANTIBODIES)

LYUDOGOVSKAYA, L.A. (Moskva, K-104, Bogoslavskiy per., d.16/6, kv.25)  
SHERSHUL'SKAYA, L.V. (Moskva, V-218, Prosoyuznaya ul., 35/11,  
kv. 193)

Use of the method of adsorption on erythrocytes in the study  
of tumor viruses and specific tumor antigens. Vop.onk. 9 no.2:  
118-126 '63. (MIRA 16:9)

1. Institut eksperimental'noy i klinicheskoy onkologii AMN  
SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blochin)  
(VIRUS, RESEARCH) (ONCOLOGY, EXPERIMENTAL)  
(ANTIGENS AND ANTIBODIES) (ERYTHROCYTES)

SHERSHUL'SKAYA, L.V.; IYEVLEVA, Ye.S.

Study of specific antigens in the organs of mice and rats  
with Mazurenko's viral leukemia by the method of precipitation  
in agar. Vest. AMN SSSR 19 no.11:43-50 '64. (MIRA 18:3)

1. Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR,  
Moskva.

KOLMYKOVA, V.N.; SHERSHUL'SKAYA, L.V.

Cytological studies on rat leukemia caused by viruses of mouse  
hemocytoblastosis-reticulosis. Vop. onk. 10 no.9:54-57 '64.

(MIRA 18:4)

1. Iz laboratorii etiologii leykozov (zav. - doktor med.nauk  
N.P.Mazurenko) Instituta eksperimental'noy i klinicheskoy onkologii  
AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin.  
Adres avtorov: Moskva, I-110, ul. Shchepkina, 61.2, korp. 9,  
Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.

SHERSHUNOVA, L. I., KUZNETSOV, N. I., SALGANIK, M. G., KUSHNER, K. H. F.,  
KOSTIN, I. G., and ZUBAREVA, K. A.,

"The Effect of Microdose Irradiation of Hen's Eggs upon Hatchability and other  
Characters of Chickens."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands,  
2-10 Sep 63



ZUBAREVA, L.A.; KOSTIN, I.G.; KUZNETSOV, N.I.; SHERSHUNOVA, L.I.

Survival rate and productivity of the offspring of hens  
irradiated with small doses of gamma rays during embryogeny.  
Trudy Inst. gen. no.33:148-154 '65.

(MIRA 18:12)

KUZIN, A.M.; KOSTIN, I.G.; SHERSHUNOVA, L.N.; ZUBAREVA, L.A.

Use of ionizing radiations in poultry farming. Radiobiologia  
3 no.2:311-316 '63 (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Radiobiologicheskaya laboratoriya Tomilinskoy ptitsefabriki.

L 36357-66 EWT(1)

ACC NR, AP6005312

SOURCE CODE: UR/0413/66/000/001/0046/0047

INVENTOR: Bayev, Ye. F.; Burylin, Ye. I.; Snezhko, Yu. V.; Shershunova, S. I.

ORG: none

32  
B

TITLE: <sup>25</sup> Delay line with inductive elements containing ferromagnetic toroidal cores. Class 21, No. 177496

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 46-47

TOPIC TAGS: delay line, ferromagnetic material, inductive element

ABSTRACT: An Author Certificate has been issued for a delay line with inductive elements containing ferromagnetic toroidal cores. To obtain the optimum coupling coefficient of inductive elements of the delay line, these ferromagnetic cores have four protrusions located in pairs

Card 1/2

UDC: 621.374.5

SOV/112-57-9-18492

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 57 (USSR)

AUTHOR: Sherskov, V. Ya., Stakhanov, G. A.

TITLE: Experience with Deep Water-Table Lowering at the Construction Site of the Kakhovka Hydroelectric Station (Opyt glubinnogo vodoponizheniya na stroitel'stve Kakhovskoy GES)

PERIODICAL: V sb.: Opyt iskusstv. ponizheniya urovnya grunt. vod na str-ve gidroelectrostantsiy, M.-L. Gosenergoizdat, 1956, pp 30-38

ABSTRACT: Bibliographic entry.

Card 1/1

86387

S/020/60/135/002/007/036  
C111/C222

Strong Dimensionality of Mappings and the Dimensionality Characteristic of Arbitrary Spaces Related to it

into the Euclidean  $E^k$ , so that  $\text{Dim } f = n-k$ ; the set of such mappings is everywhere dense in the space  $C(X, E^k)$  of all bounded mappings of  $X$  into  $E^k$ . For strongly zero-dimensional mappings M. Katetov (Ref. 1<sup>a</sup>) has proved the theorems.

The proof of the two theorems is based on:

Theorem A: Let  $f$  be a mapping of  $X$  into  $Y$ , where  $Y$  has a countable base. Then in  $X$  every set  $M$  of the space  $X$  can be included in a set  $M_0$  of the type  $G_\delta$  so that  $f$  has the same strong dimensionality on  $M_0$  and  $M$ :  $\text{Dim}_{M_0} f = \text{Dim}_M f$ .

Theorem B: The projection  $\tilde{\kappa}$  of the  $E^n$  onto the subspace  $E^k$  has the  $\text{Dim } \tilde{\kappa} = n-k$ .

Lemma 1: If in the superposition  $fg$  of two mappings one mapping is strongly zero-dimensional, then it holds  $\text{Dim } fg = \text{Dim } f + \text{Dim } g$ .

Lemma 2: To every mapping  $g$  of  $X$  into  $Y$  a mapping  $\varphi$  of  $X$  in  $E^{\text{dim } Y}$  can be given so that  $\text{Dim } \varphi = \text{Dim } g$ .

The author mentions P.S. Aleksandrov and A. Taymanov.

Card 2/3

SHERSNEV, M.L. (Moskva)

Characteristics of the dimensionality of a metric space using  
the dimensional properties of its mappings onto Euclidean  
spaces. Mat.sbor. 60 no.2:207-218 F '63. (MIRA 16:4)  
(Topology) (Dimensional analysis)

SHERSTENNIKOV F.A.

CHARUYSKIY, A.P.; SHERSTENNIKOV, F.A.; FOMIN, M.G., redaktor; KOVA-  
LIKHINA, M.F., ~~tehnicheskiy~~ redaktor.

[Installation of metal bridges by means of four-pole derricks]  
Montazh metallicheskih mostov pri pomoshchi chetyrekhmachtovogo  
pod'emnika. Moskva, Izd-vo dorozhno-tekhn. lit-ry Gushosdora MVD  
SSSR, 1952. 74 p. [Microfilm] (MLRA 7:10)  
(Bridges, Iron and steel) (Cranes, derricks, etc.)

SHERSTENNIKOV, N.A., prof.

Recollections of N.A. Semashko. Sov. zdrav. 20 no.12:67-70  
'61. (MIRA 15:6)

1. Zaveduyushchiy kafedroy organizatsii zdravookhraneniya  
Bashkirskogo meditsinskogo instituta.  
(SEMASHKO, NIKOLAI ALEKSANDROVICH, 1874-1949)



SHERSTENNIKOV, N.A., prof.

Meeting of physicians graduating from the medical department of  
Kazan University in 1922. Kaz. m d. zhur. no.6:70-71 '62.  
(MIRA 17:5)

1. Bashkirskiy meditsinskiy institut, Ufa.

SHERSTENNIKOV, Ye. N.:

SHERSTENNIKOV, Ye. N.:

"The arterial ring of the brain base and the arteries of the optic lobe of man and certain mammals." Molotov State Medical Inst. Molotov. 1955. (DISSERTATION FOR THE DEGREE OF DOCTOR IN MEDICAL SCIENCE).

Knizhnaya letopis  
No. 15, 1956. Moscow

SHERSTENNIKOV, Ye.N. (Kemerovo, 1, ul. 40 let Oktyabrya, 13, kv.6)

Arteries of the optic thalamus in man. Arkh. anat. gist. i embr. 40  
no. 1:91-95 Ja '61. (MIRA 14:2)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii  
(zav. -dotsent A.A. Chashnikov) Kemerovskogo meditsinskogo instituta.  
(OPTIC THALAMUS—BLOOD SUPPLY)

1985

... ..  
... ..  
... ..  
... ..

(MIRA 18:10)

... ..  
... ..  
... ..  
... ..

SHERSTENNIKOV, Ye.N. (Kemerovo, l. ul. Ushakova, 3, kv. 27)

Macrotome for the preparation of serial sections of organs.

Arkh. anat., gist. i embr. 48 no.1:94-95 Ja '65.

(MIRA 18:11)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii  
(zav.- dotsent A.A. Chashnikov) Kemerovskogo meditsinskogo  
instituta. Submitted Jan. 17, 1963.

LEVIN, S.R.; LUKIN, Yu.A.; BIBIKOV, G.G.; SHERSTENNIKOVA, L.K.

Determining the hydraulic resistances of operating city gas mains.  
Gaz. prom. 10 no.4:20-22 '65. (MIRA 18:5)

SHERSTEVA, O. S.

Effect of chemical and electrical narcosis on phagocytosis. Arkh.  
pat., Moskva 14 no. 2:78-81 Mar-Apr 1952. (CLML 22:5)

1. Of Molotov Medical Stomatological Institute (Work Supervisor --  
Prof. M. R. Mogendovich).

SOYUZOV, A., prof., doktor tekhn.nauk; SHERSTINSKIY, E., inzh.

Results of the operational testing of the experimental sectional  
barge train on the Volga River. Rech. transp. 19 no. 6:13-14  
Je '60. (MIRA 14:2)

(Volga River--Towing)



VAGANOV, Gennadiy Ivanovich, dots., kand. tekhn. nauk; SHANCHUROVA, Valentina Konstantinovna, kand. tekhn. nauk; SHERSTINSKIY, Efrain Khaimovich, inzh.; Primali uchastiye: SIROTINA, G.N., dots., kand. tekhn. nauk; POSTNOV, A.V., kand. tekhn. nauk; LESYUKOV, V.A., inzh. vodnogo transporta, dots., kand. tekhn. nauk, retsenzent; FOMKINSKIY, L.I., starshiy nauchnyy sotr., retsenzent; KAMBUCHINA, A.N., red. izd-va; RIDNAYA, I.V., tekhn. rod.

[Ship propulsion; methods and examples for carrying out ship propulsion calculations]Tiaga sudov; metodika i primery vypolneniia sudovykh tiagovykh raschetov. Moskva, Rechnoi transport, 1962. 241 p. (MIRA 15:8)

1. Kafedra organizatsii dvizheniya Gor'kovskogo instituta inzhenerov vodnogo transporta (for Lesyukov). 2. Tsentral'nyy nauchno-issledovatel'skiy institut ekonomiki i ekspluatatsii vodnogo transporta (for Fomkinskiy).  
(Ship propulsion)

SHERSTKOV, Yu.A.

Introducing quantitative spectrum analysis in geological investigations. Izv. AN SSSR. Ser. fiz. 19 no.1:117-119 Ja-F '55.

(MLRA 8:9)

(Spectrum analysis) (Spectrometer)

SHERSTKOV, Yu. A.

Chem

fact  
not

Quantitative spectral determination of iron, titanium, magnesium, and calcium oxides in solutions of refractory clays.  
 Yu. A. Sherstkov (Geol. Admin., Kemerov). *Zavodskaya Lab.* 21: 320-4 (1955).—After the detn. of  $Al_2O_3$  and  $SiO_2$  by the usual chem. methods, the soln. of refractory clay (general compn.:  $SiO_2$  53,  $Al_2O_3$  32,  $Fe_2O_3$  2,  $TiO_2$  1.5,  $CaO$  0.5, and  $MgO$  0.7 wt. %) was transferred into a glass cup through the center of which was passed a C electrode (with a tip 3 mm. in diam.). A 1.2-mm. shaft in the center and through the walls of the electrode allowed an even flow of soln. into the spark interstice. The geometry of the fulgurator (diagram shown) prevented splashing of liquid and deposition of salts on the electrodes. With the aid of calibration graphs obtained with standard solns., spark spectrographs made possible the simultaneous detn. of  $Fe_2O_3$ ,  $TiO_2$ ,  $MgO$ , and  $CaO$  in 15-20 different samples of clay during 8 hrs. A. P. Kotloby

10M

PM

USSR/Optics - Optical Methods of Analysis. Instruments.

K-7

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13086

Author : Sherstkov, Yu.A., Fedina, Ye.P.

Inst : Kemerovo Geological Administration, USSR.

Title : Use of Spectral Method for Phase Analysis of Nickel Ores.

Orig Pub : Zavod. laboratoriya, 1955, 21, No 9, 1060-1061

Abstract : To determine the nickel content, the nickel ores were dissolved in aqua regia, after which the dissolved portion was analyzed by a chemical method, and the precipitate was dissolved by spectral method. The source of light was an ac arc, and the spectrograph ISP-22 was used. In precipitates, containing talkite-chlorite-shales, quartz diorites, and serientinites, with a nickel content from 0.02 to 1%, the nickel silicate was determined. Quartz was introduced into the sample to serve as a buffer, and copper oxide was

Card 1/2

Shenstkov, Yu. A.

50V/1700

PHASE I BOOK EXPLOITATION

24(7)

L'vov, Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956. t. II: Atomnaya spektroskopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol. 2: Atomic Spectroscopy) /Izv. i zad-vo L'vovskogo univ., 1958. 568 p. (Series: Ita: Fizicheskii sbornik, vyp. 4(9)). 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR, Komissiya po spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.); M.M. Reporent, Doctor of Physical and Mathematical Sciences; I.L. Pabelinskiy, Doctor of Physical and Mathematical Sciences; V.A. Fabrikant, Doctor of Physical and Mathematical Sciences; V.G. Kortitskiy, Candidate of Technical Sciences; S.M. Ruzitskiy, Candidate of Physical and Technical Sciences; L.M. Klimovskaya, Candidate of Physical and Mathematical Sciences; V.S. Mulyanchuk (deceased), Doctor of Physical and Mathematical Sciences; Glebman, Doctor of Physical and Mathematical Sciences; M.I. S.L. Gaser, Tech. Ed.; I.V. Shuryuk.

FURPOSE: This book is intended for scientists and researchers in the field of spectroscopy, as well as technical personnel using spectrum analysis in various industries.

COVERAGE: This volume contains 177 scientific and technical studies of atomic spectroscopy presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include studies of bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitation of the analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopic analysis, atlases of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochemistry, metalloids, and principles and practice of spectrochemical analysis.

Card 2/31

Materials of the 10th All-Union Conference (Cont.)	50V/1700
Belamed, Sh.G., and A.N. Salykova, Spectrographic Determination of Tin, Lead, Antimony, and Cadmium in Titanium, Zirconium, Tantalum, and Niobium	181
Rubinshteyn, R.M., and M.G. Karpel', Spectral Determination of Organic Impurities on the Surface of Metal Parts	182
Rusanov, A.K., and M.V. Vlyasova, Atlas for the Identification of Flame Spectra of Elements of 2,800-9,000 Å Wavelengths	184
Alkseyeva, A.Y., I.G. Grlman, S.K. Kalinin, Yu. A. Kurbnikov, and V.L. Martynov, First Edition of the Spectral Atlas of Elements: The Mercury Spectrum	185
Qurvich, I.M. The VUV-1 Pulse Photometer for Measuring Instantaneous Luminous Flux	187
Shenstkov, Yu. A., and M.M. Moskov, Photoelectric Method for Recording Contours of Spectral Lines in a D-C Arc	188
Dorf, O.F., A.I. Knyov, and D.A. Shklover, Spectral Characteristics of Ultraviolet Radiation Sources and Receivers	190

Card 12/31

SHERSTKOV, Yu.A.; NOSKOV, M.M.

Photoelectric method for registering the contours of spectrum  
lines in a d.c. arc. Fiz.sbor. no.4:188-190 '58.  
(MIRA 12:5)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.  
(Spectrophotometry)

SHERSTKOV, Yu. A.; PLATONOVA, G.P.; LICHMANOVA, V.T.

Direct current arc as a source of heterogeneous light. Izv. vys.  
ucheb. zav.; fiz. no. 3:68-77 '59. (MIRA 12:10)

1. Ural'skiy gosuniversitet imeni A.M.Gor'kogo.  
(Electric arc)

SOV/51-6-6-24/34

24(3), 24(7)

AUTHOR: Sherstkov, Yu.A.

TITLE: On the Problem of Applicability of the Cowan and Dicke Function to a Direct-Current Arc (K voprosu o primenimosti funktsii Kauena i Dike dlya dugi postoyannogo toka)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 817-818 (USSR)

ABSTRACT: The paper reports an experimental check of the correctness of the Cowan and Dicke function (Ref 3) in description of excitation processes in a direct-current arc. The author obtained photoelectrically and photographically the distribution of intensities in the plane of the central cross-section of the arc for resonance lines of barium and strontium atoms and ions and the radial variation of temperature for lines of Cu I at 5105 and 5218 Å. The line intensity distributions along the arc radius were calculated from the experimental curves using Hörmann's method (Ref 4). Temperature at the arc axis was equal to 5600°K and it fell away from the axis region (3700°K at  $r = 3.6$  mm). Comparing the experimental data and theoretical curves (figure on p 818) the author found that the Cowan and Dicke function can, in general, be used to calculate the shape of lines emitted in a direct-current arc.

Card 1/2



SOV/51-6-6-24/34

On the Problem of Applicability of the Cowan and Dicke Function to a Direct-Current Arc

but if this function is applied to the resonance lines of atoms with low ionization potentials the errors may reach 20%. There are 1 figure and 5 references, 2 of which are Soviet, 2 German and 1 English.

Card 2/2

SHFRSTKOV, Yu. A., Cand Phys-Math Sci (diss) -- "Experimental check of the theory of light irradiation of a nonhomogeneous layer of gas, on the example of constant-current arc discharge". Sverdlovsk, 1960. 11 pp (Min Higher and Inter Spec Educ USSR, Ural State U im A. M Gor'kiy), 120 copies (KL, No 11, 1960, 129)

SHERSTROV YU. M.

## PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

Card 1/13

Materials of the Third Ural Conference (Cont.)

SOV/6181

**COVERAGE:** The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

TABLE OF CONTENTS:

Foreword

3

PART I

Sherstkov, Yu. A., and L. F. Maksimovskiy. Investigation of the dependence of the total intensity of spectral lines on the concentration of elements in an arc-discharge plasma

4

Card 2/152