

GORDEYEV, G.S., prof.; YAKUSHKIN, D.I.. Prinimali uchastiye: GORSKAYA, N.V.;  
GRANOVSKAYA, A.Ye.; YEVSTIGNEYEVA, Yu.G.; KRYLOV, M.V.; LEVYKIN, D.I.;  
MAKHOVETSKIY, V.B.; MEYENDORF, A.L.; NAZARENKO, V.I.; NICHIPORUK,  
O.K.; PAVLOV, L.I.; RUMYANTSEVA, N.V.; SOSENSKIY, I.I.; CHERNEVSKIY,  
Yu.V.; TULUPNIKOV, A.I., red.; SOLOV'YEV, A.V., prof., red.;  
RAKITINA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red.

[Agriculture in capitalist countries; a statistical manual] Sel'skoe  
khoziaistvo kapitalisticheskikh stran; statisticheskiy sbornik.  
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 247 p. (MIRA 12:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki  
sel'skogo khozyaystva. 2. Otdel nauchnoy informatsii po ekonomike i  
organizatsii sel'skogo khozyaystva zarubezhnykh stran Vsesoyuznogo  
nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva  
(for all except Tulupnikov, Solov'yev, Rakitina, Zubrilina). 3.  
Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki  
sel'skogo khozyaystva (for Tulupnikov). 4. Zamestitel' direktora  
Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo  
khozyaystva (for Solov'yev).

(Agriculture--Statistics)

29298

S/051/61/011/004/003/004  
E202/E592

24,3950

AUTHOR: Chernevskaya, E.G.

TITLE: The transparency and the effect of gamma radiations on the crystals of  $\text{CaF}_2$ ,  $\text{SrF}_2$  and  $\text{BaF}_2$

PERIODICAL: Optika i spektroskopiya, v.11, no.4, 1961, 513-517

TEXT: All the above alkaline earth metal fluorides were studied in a form of single crystals grown from high purity materials and crystallised in the presence of lead fluoride and graphite. Details of the preparation were given by the author and her team in earlier work (Ref.4: Opt. i spektr., 4, 272, 1957). Studies of transmittance were confined to a region of 0.13 to 13  $\mu$ . It was found that the  $\text{CaF}_2$  crystals were colourless (not reddish-violet), so were the crystals of  $\text{BaF}_2$ . They were both highly and uniformly transparent to the visible spectrum. Transmittance in the Schuman region (u.v.) showed that there are two distinct types of  $\text{CaF}_2$  crystals. One of these had a 20-40% transmittance in the 140 to 135  $m\mu$  region. The other type, which has been described before, had a sharp cut-off at 230-210  $m\mu$ . The hitherto unexplored  $\text{SrF}_2$  crystals existed also in two distinct forms: a

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The transparency and the effect of ... S/051/61/011/004/003/004  
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pale-yellow type and a bright green type. The former had uniform transmittance in the visible spectrum and did not exhibit any noticeable absorption peaks. The latter had a higher average absorption and at least three well defined absorption peaks. In the infrared region, all the crystals studied showed a well defined limit of transmittance. The crystals were also irradiated with a  $\text{Co}^{60}$  source, the dose being of the order of  $10^6 - 10^7$  roentgens. The irradiated  $\text{CaF}_2$  crystals yielded two varieties: one was bluish and the other purple. The latter showed three absorption peaks at 375, 520 and a weak one near 330  $\mu\text{m}$ . The corresponding peaks in the bluish crystals were found at 385, 605 and 260  $\mu\text{m}$ , respectively. Similar changes were observed in the remaining crystals. It was noticed, however, that the resistance of  $\text{BaF}_2$  to the irradiation was somewhat higher than that of  $\text{CaF}_2$ . The highest resistivity in this respect was shown by the  $\text{SrF}_2$  crystals. Acknowledgments are expressed to N. V. Berbash for assistance, P. P. Feofilov for advice, A. I. Stozharev and I. V. Stepanov (deceased) for directing the work. There are 3 figures and 7 references: 4 Soviet and 3 non-Soviet. The

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The transparency and the effect ... <sup>29298</sup> S/051/61/011/004/003/004  
E202/E592

English-language references read as follows: Ref.1: D. Stockbarger.  
J. Opt. Soc. Amer., 39, 731, 1949; Ref.2: A. Smakula. Phys.Rev.,  
77,408, 1950.

SUBMITTED: October 15, 1960

4X

Card 3/3

CHERNEVSKAYA, L. V.

"A Study of the Spread of Toxoplasmosis among Animals and  
the People in Contact with Them"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis,  
Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology  
in. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

L 8098-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m) WW/EM

ACC NR: AP6000236

SOURCE CODE: UR/0198/65/001/010/0007/0014

AUTHOR: Guz', A. N. (Kiev); Ryndyuk, M. A. (Kiev); Cherney, L. I. (Kiev)

33  
B

ORG: Institute of Mechanics, AN UkrSSR (Institut mekhaniki, AN UkrSSR)

TITLE: Effect of stiffening rings on stress distribution in a spherical shell weakened by two equal circular holes

26

SOURCE: Prikladnaya mekhanika, v. 1, no. 10, 1965, 7-14

TOPIC TAGS: spheric shell structure, stress concentration, stress distribution, hole weakened shell

ABSTRACT: The state of stress in a spherical shell weakened by two equal circular holes with edges reinforced by identical elastic rings is analyzed. The holes are provided with covers, and the shell is under constant internal pressure. It is assumed that the distance between the centers of the holes is such that the additional field of stresses caused by the presence of the holes can be described by equations of the shallow-shell theory; the membrane-stress state is taken as the initial one. The stiffening rings are treated as flexible bars resisting tension, flexure, and torsion. Equations are given from which the stress and strain components can be determined in cases when the covers 1) can transmit only the shear forces, and 2) are perfectly rigid. Successive-approximation formulas for determining the stress-distribution components along the line connecting the centers of the holes are also given. The results

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ACC NR: AP6000236

from calculating the stress distribution in a hole-weakened spherical shell of given dimensions are presented and illustrated by diagrams. The effect of the rigidity of stiffening rings on the stress distribution in the neck between the holes is discussed, taking into account the mutual influence of holes on the stress distribution around each other. A comparison of these results with those obtained in the case when the mutual influence of the holes is disregarded leads to a conclusion which is important for the practical calculations: the mutual effect of the holes (stiffened or not stiffened by rings) on the stress distribution around them is negligible in cases when the neck between the holes is equal to or larger than the diameter of the bigger hole (in the case of unequal holes). The stress distribution in the neck in case (1) with the mutual influence of the holes taken into account is discussed, the results of the calculations are given in a table and the behavior of the shell is compared with that of an analogously hole-weakened plate by plotting the stress-concentration coefficients in a diagram. Orig. art. has: 6 figures, 1 table, and 8 formulas. [VK]

SUB CODE: 20/      SUBM DATE: 15Jun64/      ORIG REF: 007/      ATD PRESS: 4147

Card 2/2 AW

CHERNEY, N.I. (Khar'kov)

On infinitesimal flexures in the sliding of spherical  
segments relative to an arbitrary plane. Ukr. mat. zhur.  
14 no.4:440-446 '62. (MIRA 15:12)

(Vector analysis)  
(Geometry, Differential)



L 5093-66 EWT(d)/FSS-2  
ACCESSION NR: AP5020119

UR/0109/65/010/008/1418/1425  
621.391.14

AUTHOR: Gatkin, N. G.; Geranin, V. A.; Karnovskiy, M. I.; Krasnyy, L. G.;  
Cherney, N. I.      44      44      44      44

TITLE: Probability density of the derived phase of a modulated signal combined with a Gaussian noise

SOURCE: Radiotekhnika i elektronika, v. 10, no. 8, 1965, 1418-1425

TOPIC TAGS: signal detection      44

ABSTRACT: This formula has been developed for a single-variable density of probability of the derived phase of a combination that comprises an amplitude-and-angle-modulated radio signal and a Gaussian noise:

$$W_1(\theta) = \frac{1}{16\pi B \rho \gamma \rho \delta_1} \exp\left(K + \frac{\lambda_2 + \nu_2}{2}\right) \left\{ (\lambda_1 + \nu_1) I_0 \left[ \frac{1}{2} \sqrt{\mu_2^2 + (\lambda_2 - \nu_2)^2} \right] + \frac{\mu_1 \mu_2 + (\lambda_1 - \nu_1)(\lambda_2 - \nu_2)}{\sqrt{\mu_2^2 + (\lambda_2 - \nu_2)^2}} I_1 \left[ \frac{1}{2} \sqrt{\mu_2^2 + (\lambda_2 - \nu_2)^2} \right] \right\}. \quad (28)$$

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L 5093-66

ACCESSION NR: AP5020119

The formula allows for the stagger between the signal carrier frequency and the frequency  $\omega_0$  corresponding to the maximum spectral density of the noise average power  $F(\omega)$ ; it also allows for the asymmetry between  $F(\omega)$  and  $\omega_0$ . The formula encompasses all particular cases dealt with earlier in various publications (S. O. Rice, BSTJ, 1948, v. 27, p. 109; D. Middleton, J. Appl. Phys., 1948, v. 19, p. 817). Curves are supplied which correspond to a linear FM of the signal. Orig. art. has: 7 figures and 49 formulas.

ASSOCIATION: none

SUBMITTED: 01Jun64

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 002

Card 2/2 *md*

CHERNEYEV, P.

Construction of houses for workers by groups outside the construction industry. Sots.trud no.2:108-113 F '57. (MLRA 10:5)

1. Nachal'nik pressovogo korpusa avtozavoda imeni Molotova, predsedatel' Soveta sodeystviya zhilishchnomu stroitel'stvu.  
(Housing)

CHERNEYEVA, L. I.

"Experimental Determination of the Heat Conductivity of Liquids in Respect to Temperature and Pressure." Thesis for degree of Cand. Technical Science. Sub 23 Nov 50 Moscow Inst of Chemical Machine Building

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

1. CHERNEYEVA, L. [1.]

2. USSR (600)

4. Heat - Conduction

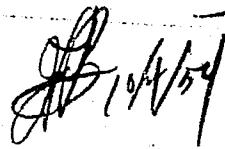
7. Study of heat conductivity of freons. Khol. tekhn. 29 no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

CHERNEYEVA, L.

Battelle Technical Review  
July 1954  
Space Heating and Conditioning

①  
\*10467\* Investigation of Heat Conductivity of Freon-22.  
(Russian.) L. Chernceva. *Khulodil'nai Tekhnika*, 1953, no. 3,  
July-Sept., p. 60-63.  
Results of heated wire method. Comparison shows proposed  
formula conforms to experimental data. Diagrams, graphs,  
tables. 3 ref.



Handwritten signature and date, possibly "J.B. 1/1/54".

CHERNEYEVA, L. [L.]

MARTYNOVSKIY, V.S. [author]; YAKOBSON, B., kandidat tekhnicheskikh nauk;  
CHERNEYEVA, L., kandidat tekhnicheskikh nauk [reviewers].

"Thermodynamic characteristics of cycles of heat and refrigeration machinery.  
V.S.Martynovskii. Reviewed by B.Iakobson, L.Cherneeva. *Enol.tekh.* 13 no.3:  
78-79 J1-S '53. (MLRA 6:11)

(Thermodynamics) (Martynovskii, V.S.)

1.  
CHERNEYEVA, L., kandidat tekhnicheskikh nauk

Investigation of the heat conductivity of Freon 113. Khol.tekh.  
no.1:45-47 Ja-Mr '55. (MLRA 8:7)  
(Ethane) (Heat--Conduction)



CHERNEYEVA, L., kandidat tekhnicheskikh nauk.

Experimental determination of the heat absorption capacity of  
monoethanolamine. Khol.tekh. 32 no.4:44-46 O-D '55.(MIRA 9:4)  
(Ethanol) (Heat--Radiation and absorption)

AUTHOR: Cherneyeva, L., Candidate of Technical Sciences. 66-1-15/26

TITLE: Experimental determination of the thermal properties of wines. (Eksperimental'noye opredeleniye teplovykh svoystv vin).

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering), 1957, No.1, pp.50-52 (U.S.S.R.)

ABSTRACT: For designing cooling and heating apparatus used for heat treatment of wines and for calculating heat exchange during storage and transportation of wines, it is necessary to know the physical parameters of various grades of wine. Therefore, VNIKhI investigated the following four grades of wine: dry wine (11% alcohol, 8% acidity); heavy wine (18% alcohol and 7 g sugar/100 ml, 6% acidity) and also fruit and dessert wines. The freezing temperature, the heat capacity, the heat conductivity, the specific gravity and the viscosity values were determined; the investigations were carried out between a temperature slightly exceeding the freezing and a temperature up to 60 C. The wine was subjected to heating and cooling and repeated tests have shown that the heat treatment did not affect the physical properties within the range of measuring error. The data are entered in Tables 1 to 3 which give the specific weight and heat capacity  
Card 1/2 (Table 1), the coefficient of thermal conductivity and tempera-

Experimental determination of the thermal properties of  
wines. (Cont.)

66-1-15/26

ture conductivity (Table 2) and the viscosity (Table 3) of  
the four investigated wines at temperatures -10 to +60 C.  
The freezing temperature was determined at -4.6 C for dry  
wine, -10.4 C for the heavy wine, -9.4 C for fruit wine  
and -12.7 C for white Muscat wine.  
There are three tables and 1 graph.

AVAILABLE:

Card 2/2

AUTHOR: Cherneyeva, L.I., Cand.Tech.Sci. SOV/90-58-7-10/22

TITLE: An experimental investigation of the thermodynamic properties of Freon-142. (Eksperimental'noye issledovaniye termodinamicheskikh svoystv freona-142)

PERIODICAL: Teploenergetika, 1958, No.7, pp. 38-43 (USSR)

ABSTRACT: The Freons are low-boiling-point substances that might be used as working media in the lower stages of high-pressure power stations burning organic fuel, or in atomic power stations and traction equipment. Freon-142 ( $C_2H_3F_2Cl$ ) is used in air-conditioning equipment and is promising for heat pumps. Its thermodynamic properties have been little investigated. This article gives the results of an experimental investigation of the thermodynamic properties of Freon-142 over the temperature range of  $-60^{\circ}C$  to the critical point. The purity of the Freon was assessed by the change in boiling-point during evaporation, and it was found to conform to the requirements of the German standard DIN 8960. Over the temperature range  $-60$  to  $21^{\circ}C$ , the saturated vapour pressure was determined by a condensation thermometer method previously described by Pavlova, who used it to study Freon 11 and Freon 113. The technique and the measuring equipment are described. The accuracies of measurement of the various properties are estimated. At temperatures above  $21^{\circ}C$ , the saturated vapour pressure curve was

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SOV/96-58-7-10/22

An experimental investigation of the thermodynamic properties of Freon-142.

determined by a variable volume piezometer method described in the article. Agreement between the two methods was good in the region of overlap. The experimental results are given in Table.1, pressure is plotted against temperature in Fig.1. and an empirical equation that fits the results is written. Experimental points of Riedel, Mears and others are given in Fig.1. The specific gravity of liquid Freon-142 was determined by a pyknometer method, which is described. A special thermostat that was used over the temperature range 0 to - 60°C is also described. The measurement procedures were as before. The maximum error of determination of specific gravity was not greater than  $\pm 0.1\%$ . The results of determinations over the range -60 to 92°C appear in Table.2., and an empirical equation that fits the figures well is given. The specific gravity of saturated vapour was then determined over the range - 50 to + 50°C using the pyknometer illustrated in Fig.2., which is described. At higher pressures determinations were made by means of the piezometer described below that was used to determine the p-v-T relationship. The p-v-T relationship was determined by a method employing a variable volume of gas in a piezometer, which is illustrated in Fig.4. The experimental procedure and methods of measurement are described in some detail. Five or six points were taken on each isotherm during compression and then a number of points were taken during expansion. Altogether, ten isotherms were investigated in

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SOV/96-58-7-10/22

An experimental investigation of the thermodynamic properties of Freon-142.

the temperature range of 1.78 to 96°C. The maximum relative error in the determination of the specific volume of dry saturated and super-heated vapour is estimated to be not greater than 0.25%. Test results for the specific volumes of saturated vapour and of super-heated and wet-saturated vapour of Freon-142 are given in Tables 3 and 4 respectively. An empirical equation of state is given that is based on the volume data; the constants in the formula have to be selected according to the temperature range concerned. This equation of state was used to calculate tables of volumes of saturated and super-heated vapour of Freon-142, which were used in the construction of the pv-p diagram given in Fig.5. The critical conditions for Freon-142 were determined by the method used to determine the p-v-T relationship. A series of tests successively approaching the critical temperature were made. The critical pressure was determined by a similar procedure using successive isobars. The form of the isotherms near the critical point will be seen from Fig.6. The relationships between the specific gravities of vapour and liquid and temperature near the critical point are given in Fig.7.

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An experimental investigation of the thermodynamic properties of Freon-142

The work established that the critical conditions for Freon-142 are:

Temperature ...  $136.45 \pm 0.04^{\circ}\text{C}$ .

Pressure ...  $42.75 \pm 0.2 \text{ atm}$

Specific gravity ...  $425.7 \pm 3.5 \text{ kg/m}^3$

It is considered that these results are more accurate than others that have been published. There are 7 figures, 4 tables and 8 literature references (3 German, 1 English and 4 Soviet)

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti (All-Union Scientific Research Institute of the Refrigeration Industry)

1. Methyl halides - Thermodynamic properties

Card 4/4

**AUTHOR:** Chernysheva, L.I. (Cand.Tech.Sci.) SOV/96-58-12-13/18

**TITLE:** Experimental determination of the specific heat of liquid freon-142.  
(Eksperimentalnoye opredeleniye teploemkosti zhidkogo freona-142)

**PERIODICAL:** Teploenergetika, 1958, No.12. pp. 71-78 (USSR)

**ABSTRACT:** Earlier foreign work on the determination of the specific heat of freon-142 is briefly reviewed and it is concluded that either the temperature range covered is inadequate or the results are unreliable. For the present work use was made of a method involving direct heating of a calorimeter. This method has also been used by other authors to determine the specific heat of liquids. Earlier work has shown the need to modify the equipment somewhat. A general outline of the equipment is given in Fig.1. and the modifications made to it are described. In the experimental work determinations were made of the specific heat of liquid freon-142 over the temperature range -30 to +95°C at intervals of 10°C. The rest results are given in Table 1. Two tests were made at - 28°C. and two at + 20°C; in the one case the difference between the two results was 1% and in the other 2%. A formula is offered for the relationship between specific heat and temperature. It is considered that the maximum error over the entire temperature range is not greater than 3.9%. The results obtained in this work are 5% below those of Riedel within the temperature range that he investigated. In order to determine the reasons for this systematic difference, tests were made with toluol,

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Experimental determination of the specific heat of liquid  
freon-142.

SOV/96-58-12-13/18

a well-known substance: at  $-30^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$  and  $50^{\circ}\text{C}$ , the differences from published values were 1%, - 0.8% and - 1.7% respectively. It is concluded from this that the results for freon-142 are reliable. Determinations of enthalpy and entropy are then described and the formulae used for this purpose are given. Tables and diagrams of the thermodynamic properties of freon-142 were drawn up. The properties of saturated vapour of freon-142 are set out fully in Table.2., and those of the superheated vapour in Table.3. An enthalpy/entropy chart is given in Figs.3. and 4. There are 4 figures, 3 tables and 7 references, 5 of which are Soviet.

ASSOCIATION: All-Union Scientific Research Institute of the Refrigeration Industry (Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Kholodil'noy Promyshlennosti)

Card 2/2

CHERNEYEVA, L., kand.tekhn.nauk

~~Physical and thermal properties of beer.~~ Khol. tekhn. 35 no.2:46-50  
Mr-Ap '58. (MIRA 11:4)

(Beer)

VUKALOVICH, M.P., doktor tekhn. nauk, prof.; CHERNEYEVA, L.I., kand. tekhn.  
nauk

Experimental study of the heat transmission coefficient of  
water vapor at temperatures up to  $660^{\circ}$  C and pressures 1,500 kg/cm<sup>2</sup>.  
Teploenergetika 10 no.9:71-76 S '63. (MIRA 16:10)

1. Energeticheskiy institut imeni G.M. Krzhizhanovskogo.  
(Water--Thermal properties)

CHERNEYEVA, L.I., kand. tekhn. nauk; RODIONOVA, Ye.K., inzh.

Calculation of some thermodynamic properties of monoisopropyl-  
biphenyl. Teploenergetika 10 no.7:73-75 JI '63.

(MIRA 16:7)

1. Energeticheskiy institut im. Krzhizhanovskogo.  
(Biphenyl--Thermodynamic properties)

L 29252-66 EWP(j)/ENT(m) RM/WW/JW

ACC NR: AP6019314

SOURCE CODE: UR/0286/65/000/012/0022/0022

INVENTOR: Levin, A. M.; Glazov, A. N.; Vershinin, V. I.; Danilov, P. M.;  
Plekhanov, P. S.; Pashchenko, V. Ye.; Lachinov, S. S.; Kuznetsov, L. D.; Rabina, P. D.;  
Levitskaya, T. T.; Tatarov, F. S.; Lipinskaya, V. P.; Cherneyeva, Z. M.; Alekseyeva, Z. S.

ORG: none

TITLE: Steel for manufacturing ammonia synthesis catalyzer. Class 18, No. 171877

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 22

TOPIC TAGS: steel, ammonia, inorganic synthesis, catalysis

ABSTRACT: A steel for manufacturing ammonia synthesis catalyzers is distinguished by an increased catalyzer activity and has the following chemical composition: 0.10% C, 1.0-2.0% Al, 0.05% Mn, 0.008% P, 0.008% S, 0.05% Cr, 0.10% Cu, 0.05% Ni, 0.40% Si, balance--iron. [JPRS]

SUB CODE: 11, 07 / SUBM DATE: none

Card 1/1 (1.0)

UDC: 669.14/15

BONDARENKO, O.N.; BUTKOV, A. Ya.; VVEDENSKIY, A.I.; KOVALEVSKAYA, S.S.;  
NABIYEV, M.M.; ~~CHERNEVA, O.V.~~; NURATDINOVA, M.R., red.;  
GOR'KOVAYA, Z.P., tekhn. red.

[Flora of Uzbekistan] Flora Uzbekistana. Tashkent, Izd-vo  
Akad. nauk UzSSR. Vol.6. 1962. 629 p. (MIRA 16:5)  
(Uzbekistan--Compositae)

GREBENIK, V.M.; TYLKIN, M.A.; KUCHERENKO, V.F.; CHERNEVICH, Ye.M.

Analysis of the breakage of metallurgical equipment parts. Izv.  
vys. ucheb. zav.; chern. met. 5 no.8:175-182 '62. (MIRA 15:9)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz i  
Metallurgicheskiy zavod im. F. E. Dzerzhinskogo.

ACC NR: AP6030661

SOURCE CODE: UR/0020/66/169/006/1446/1448

AUTHOR: Shteyn-Margolina, V. A.; Cherni, N. Ye.; Razvyazkina, G. M.

ORG: Electron Microscopy Laboratory, Academy of Sciences, SSSR (Laboratoriya elektronnoy mikroskopii, Akademiya Nauk SSSR)

TITLE: Wheat-streak mosaic virus in plant cells and its tick carrier

SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1446-1448

TOPIC TAGS: wheat streak mosaic virus, plant disease, disease vector, tick, ~~electron microscope~~ virus, *animal parasite*

ABSTRACT: Ticks from the family *Eriophylidae* carry wheat-streak mosaic virus particles. Electromicrographic study shows that the particles are carried intracellularly as well as on the surface of the tick. Laboratory induction of the carrier state in the tick vector was accomplished by coating the vectors with a buffered leaf extract. The electron micrographs and aspects of related mosaic viruses were also discussed. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 26Feb66/ ORIG REF: 005/ OTH REF: 015/

Card 1/1

UDC: 576.858.8



CHERNIAK, E.

Reconstruction of poor underbrush under the conditions in the Volni region.

p. 153 (Gorsko Stopanstvo) Vol. 13, No. 4, April 1957. Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) IC, Vol. 7, No. 1, Jan. 1958

CHERNIAK, M. G.

The characteristics of glass fiber and its use in the repair of electric motors  
Moskva Gizlegprom, 1945. 28 p. (52-18125)

TKL057.C5

CHERNIAKOVA, T.A.

Post radiation changes in X-ray therapy of patients with cancer of the larynx. Vest. otorin. no.1:78-82 '63. (MIRA 16:9)

1. Iz rentgeno-radiologicheskogo (zav. - dotsent S. A.Sviridov) i otorinolaringologicheskogo (zav. - kand.med. nauk. Z.V. Tret'yakova) otdeleniy TSentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya, Moskva.  
(LARYNX—CANCER) (X-RAYS—THERAPEUTIC USE)

CHERNIAVSKA, Svetlana

Development of the plant kingdom during geological history. Priroda  
Bulg 13 no.4:41-47 J1-Ag '64.

CHERNIAVSKI, P.

" Preserving Nature in the Soviet Union," p. 115.  
(Gorsko Stopanstvo, Vol.8, No.3, Mar. 1952, Sofiya.)

SO: Monthly List of East European Accessions, Library of Congress, September 1953, Uncl.  
~~Russian~~ Vol.2, No.9

CHERNIAVSKI, P.

" On the Problem of the Juniper T ree," p. 266.  
(Gorsko Stopanstvo, Vol.8, No.6, June 1952, Sofiya.)

SO: Monthly List of <sup>East European</sup> ~~1953~~ Accessions, <sup>Vol.2, No.9</sup> Library of Congress, September 1953, Uncl.

CHERNIAEVSKI, P.

The condition of the Mansurevska forest and measures for its improvement.", p 388,  
(GORSKO STOPANSTVO, Vol 8, #9, Nov. 1952, Bulgaria)

East European                      Vol 2 #8  
SO: Monthly List of ~~RUSSIAN~~ Accessions, Library of Congress, August 1953, Uncl.

CHERNIAVSKI, P. and MARINOV, M.

"Types of Forests in Dobruja" p.7  
(GORSKO STOPANSTVO Vol. 9, no. 1, Jan. 1953, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 9,  
Oct. 1953, Uncl.



CHERNIAVSKI, P.: PAVLOV, P. - Gorsko Stopanstvo

Karapilit Forest in Aytos, Okoliya, P. 456  
(GORSKO STOPANSTVO Vol. 10, No. 10, Dec. 1954)

S0: Monthly List of East European Accession, (EEAL), IC, Vol. 4, No. 9, Sept. 1955 Uncl.

CHERNIAVSKI, P.

CHERNIAVSKI, P. Forest phytocoenology in the service of forestry. p. 201.

Vol. 11, no. 5, May 1955  
GORSKO STOPANSTVO  
Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 4 April 1956

CHERNIAVSKI, P.; PAVELOV, P.

Cherniavski, P.; Pavelov, P.      Problems of management in the Danube Islands. p. 295

Vol. 11, no. 7, Sept. 1955      ГОРСКО СТОПАНСТВО      Sofiya, Bulgaria

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 2  
February, 1956

L 10096-66

ACC NR: AP6001977

SOURCE CODE: UR/0105/65/000/003/0090/0090

AUTHOR: Aleksenko, G. V.; Borisenko, N. I.; Voronetskiy, B. B.; Gladilin, L. V.;  
Druzhinin, N. N.; Petrov, I. I.; Syromyatnikov, I. A.; Tishchenko, N. A.;  
Chernichkin, D. S.; Chilikin, M. G.

ORG: none

34  
B

TITLE: Professor Vyacheslav Semenovich Tulin on his 60th birthday

SOURCE: Elektrichestvo, no. 3, 1965, 90

TOPIC TAGS: mechanical engineering personnel, electric engineering personnel

ABSTRACT: Professor V. S. TULIN was born in November 1904 and graduated from the Kharkov Engineering Institute in 1925. He has since then specialized in the application of electric drives for the mining industry, in low-voltage apparatus and more recently in automation. At the present time he is the chairman of the Department of Automation and Control Machinery at the Moscow Institute of Radio-Electronics and Mining Electromechanics. He has made major contributions in his field: he is the author of 80 published works including a textbook on the automation of production processes in the mining industry; he also received an award in 1948 in connection with the Donets Basin development. He now participates in ministerial councils and committees concerned with scientific-research work, industrial coordination, also secondary and higher education. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 13, 09 / SUBM DATE: none

UDC: 621.34:65.011.56

Card 1/1 HW

I: 22524-66 EWT(d)/EWP(k)/EWP(l)

ACC NR: AP6012999

SOURCE CODE: UR/0105/65/000/006/0090/0090

AUTHOR: Alekseyenko, G. V.; Borisenko, N. I.; Voyevodin, I. D.; Drozdov, N. G.; Krayz, A. G.; Man'kin, E. A.; Mayorets, A. I.; Nekrasov, A. M.; Nayashkov, I. S.; Pavlenko, A. S.; Rokotyan, S. S.; Sobolev, A. A.; Syromyatnikov, I. A.; Sapozhnikov, A. V.; Sarkisov, M. A.; Chernichkin, D. S.; Chertin, A. M.

ORG: none

TITLE: S. I. Rabinovich (on the occasion of his 60th birthday)

SOURCE: Elektrichestvo, no. 6, 1965, 90

TOPIC TAGS: electric engineering personnel, electric transformer, hydroelectric power plant

ABSTRACT: The chief specialist of transformer building of the Gosplan (State Planning Commission) USSR, Samuil Isaakovich Rabinovich was born in 1905 in the town of Borisoglebsk of the Voronezh Oblast'. From his student years at the Gosudarstvennyy elektromashinostroitel'nyy institut (State Machine-Building Institute) he already showed interest for power transformers. In the early thirties he designed the first types of domestic Soviet 110 and 220 kV transformers; in 1939 he became the chief designer of the Moskovskiy transformatornyy zavod (Moscow Transformer factory). In 1946, he conducted the design and construction of lightning-resistant transformers; during 1949-1954,

Card 1/2

UDC: 621.314(092)

L 22594-66

ACC NR: AP6012999

he headed the design of the 400 kV transformer equipment for the Volzhskaya hydroelectric power station - Moscow power line; his subsequent work on the 500 kV equipment earned him the Lenin prize. From 1960, he has been working at the Gosplan USSR. He is also a member of the editorial board of the journal Elektrichestvo (Electricity). Orig. art. has: 1 figure. [JPRS]

SUB CODE: 10, 09 / SUM DATE: none

Card 2/2 (u)

SOV/118-53-1-2/16

AUTHORS: Dmitrenko, M.T., Kozyrev, V.P., Chernichenko, P.M., and Yatsenko, N.A., Engineers

TITLE: The Mechanization of Labor in Coke By-Product Plants (Mekhanizatsiya truda na koksokhimicheskikh zavodakh)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhlykh rabot, 1958, Nr 1, pp 6-10 (USSR)

ABSTRACT: In all newly erected and rebuilt plants of the coke by-product industry, car dumpers, mostly of the stationary rotary type have been set up. All operations in coal depots are fully mechanized; they are supplied with one or several belt conveyers and a bulldozer for the clearing of the depot area. The receiving capacity of a normal coal depot is between 800 and 900 tons per hour, the issuing capacity between 370 and 385 tons per hour. The depot is served by 6 men. During recent years many coke by-product plants have introduced automatic production control and remote control of equipment. All valves at coal and coke loading points are supplied with electric relay mechanisms of the types IMT 25/120 and IMT 100/120. The following additional mechanization means are used; automatic blocking of electric motors

Card 1/2

SOV/118-58-1-2/16

The Mechanization of Labor in Coke By-Product Plants

in case of emergency; mechanisms for the operating of coal  
tower shutting devices; mechanisms for the cleaning of coke  
oven doors; automatic coke drawers, etc.  
There are 6 diagrams.

1. Coke--Processing
2. Industrial plants---Equipment
3. Industrial plants---Control systems

Card 2/2



KEFER, V., inzh.; CHERNICHENKO, V., inzh.

Experimental study of the performance of an air washer.  
Khol.tekh. 37 no.2:25-27 My-Ap'60.

(MIRA 13:10)

1. Makeyevskiy nauchno-issledovatel'skiy institut bezopasnosti rabot  
v gornoy promyshlennosti.

(Air conditioning)

CHERNICHENKO, V.A.

"Changes of some Interoceptive Reflexes after the Action of Ionizing Radiation" p. 175, 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 a conference held in KIEV from 18-20 January 1954.

So: 1100235

CHERNICHENKO, V.A.

Mechanism of disorders of interoceptive reflexes induced by ionizing radiation. *Fiziol.zhur.[Ukr.]* 2 no.6:87-96 N-D '56. (MLRA 10:2)

1. Kiivs'kiy rentgeno-radiologichniy i onkologichniy institut,  
laboratoriya radioaktivnikh izotopiv.  
(RADIATION—PHYSIOLOGICAL EFFECT) (REFLEXES)

CHERNICHENKO, V. A.

"On Some Modifications in the Functional State of the Nervous System of the Organism Immediately After Treatment with Ionizing Radiation."

dissertation defended for the degree of Candidate of Medical Sciences at the Inst. for Physiology im I. P. Pavlov.

Defense of Dissertation (Jan-Jul 1957)  
Sect. of Biological Sciences  
Vest. AN SSSR, 1957, v. 27, No. 12, pp. 118-120

*Kuz' Letopis'*  
34, 1956

GANELINA, I.Ye.; ZIMOVAYA, N.G.; IL'INSKIY, O.B.; LEBEDEVA, V.A.;  
MARTYNYUK, V.K.; MERKULOVA, O.S.; MUSTASHCHIKOVA, S.S.;  
MYAGKAYA, I.P.; OSADCHIY, L.I.; POPOVA, T.V.; SEREBRENNIKOV, I.S.;  
TYUTRYUMOVA, Z.I.; CHERNICHENKO, V.A.; YAROSHEVSKIY, A.Ya.

Interoceptive component in the development of certain pathological states. Trudy Inst.fiziol. 8:240-253 '59. (MIRA 13:5)

1. Laboratoriya patologicheskoy fiziologii (zaveduyushchiy - V.S. Galkin [deceased]) Instituta fiziologii im. I.P. Pavlova AN SSSR.  
(SENSSES AND SENSATION) (PATHOLOGY)

CHERNICHENKO, V.A. (Kiyev, ul. Krasnoarmeyskaya, d.134, kv.132)  
KRALICH, N.M. (Kiyev, ul. Karla Libknekhta, 7-2, kv.47)

Stimulating effect of thesane and pentoxyl on the growth of  
transplantable tumors. Vop. onk. 9 no.7:41-44 '63  
(MIRA 16:12)

1. Kafedra rentgenologii (zav. - prof. A.Ye. Rubasheva) Kiyev-  
skogo instituta usovershenstvovaniya vrachey (rektor- dotsent  
M.N.Umovist).

KEFER, V.N., inzh.; CHERNICHENKO, V.K.

Results of studying mine air coolers. Trudy Sem.po gor.teplotekh.  
no.3:91-99 '61. (MIRA 15:4)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti  
rabot v gornoy promyshlennosti.  
(Mine ventilation)

KEFER, V.N.; CHERNICHENKO, Y.K.

Lewis ratio for shaft air washers. Khol.tekh.38 no.2:63-64

Mr-Ap. '61.

(MIRA 14:3)

(Air conditioning)



CHERNICHENKO, V.K.

Heat discharge from refrigerant condensation of underground cooling machines into humid mine air when recirculated water is used.  
Vop. bezop. v ugol'. shakh. 13:110-123 '62.

(MIRA 16:5)

(Mine ventilation—Cold weather conditions.)

KEFER, V.M.; CHERNICHENKO, V.K.

Study and selection of a type of mine "dry" air coolers. Vop. bezop.  
v ugol'. shakh. 13:124-137 '62. (MIRA 16:5)

(Mine ventilation—Cold weather conditions)

KEFER, V.N.; CHERNICHENKO, V.K.

Study of the basic parameters of spraying air coolers for mines.  
Vop. bezop. v ugol'. shakh. 13:138-149 '62. (MIRA 16:5)

(Mine ventilation—Cold weather conditions)

CHERNICHENKO, V.K.; TSIREL'MAN, N.M.

Differential equations and similitude criteria for the mass transfer process in gas - liquid systems. Fiz.-tekh. probl. razrab. pol. iskop. no.5:134-138 '65. (MIRA 19:1)

1. Gornyy institut imeni Artema, Dnepropetrovsk.

**CHERNICHENKO, V.P.**

[Drop forging on crankshaft forging machines] Shtampovka na krivoshipnykh  
pressakh. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1953. 214 p.  
(MLBA 6:8)

(Forging) (Automobiles--Design and construction)

ACC NR: AP6032535

SOURCE CODE: UR/0413/66/000/017/0144/0144

INVENTOR: Chernichko, A. I.

ORG: none

TITLE: Slat. Class 62, No. 185703

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 144

TOPIC TAGS: aircraft wing, auxiliary airfoil, airframe component

ABSTRACT: This Author Certificate introduces a slat with a knife-shaped trailing edge. To simplify the assembly procedure and improve quality of manufacture, the sharp edge is bolted to a Z-section which has a roller tappet mounted on the wing. Another version of the above slat, designed to simplify the mounting of each roller tappet, consists of a fixed and a movable part, and these parts are coupled by two bolts. The Z-section contains screws threaded on both sides for attaching the locks which will hold the roller tappets to the slat. Orig. art. has: 1 figure.

SUB CODE: 01/ SUBM DATE: 21Dec64/

Card 1/1

UDC: 629.135/138

SHAPOSHNIKOV, David Yefimovich; CHERNICHENKO, V.P., kandidat tekhnicheskikh nauk, retsenzent; ZALESSKIY, O.I., inzhener, redaktor; MEZHOVA, V.A., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Dies for crank, forging and stamping presses; the experience of the Moscow light automobile plant] Shtampy krivoshipnykh kovochno-shtampovochnykh pressov; opyt Moskovskogo zavoda malolitrzhnykh avtomobilei. Pod red. O.I.Zallesskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 122 p. (MIRA 9:9)  
(Dies (Metalworking))

L 32935-66 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JH/JD/HW

ACC NR: AP6019930

SOURCE CODE: UR/0122/66/000/006/0058/0061

AUTHOR: Chernichenko, V. P. (Candidate of technical sciences); Grishin, L. G. (Engineer); Yachmeneva, V. N. (Engineer)

ORG: none

34  
B

TITLE: Dynamics of high-speed forming process

SOURCE: Vestnik mashinostroyeniya, no. 6, 1966, 58-61

TOPIC TAGS: aluminum alloy, aluminum alloy forming, metal forming press/AV aluminum alloy

ABSTRACT: Theoretical and experimental studies have been made of the dynamics of a high-speed forming process depending on the rate, temperature, degree of reduction, and type of metal. AV aluminum-alloy bars 50 mm in diameter and 75 mm high were tested by a high-speed explosive-forming press with hammers weighing from 5 to 120 kg at a rate of 18 to 120 m/sec. On the basis of the experiments, some oscillograms of the deformation force and time and diagrams of the propagation of impact stresses were plotted. Experimental and industrial models of high-speed forming presses are also presented. Orig. art. has: 4 figures. [AZ]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 003/ ATD PRESS 5027

Card 1/1

UDC: 621.983.044.531.3



S/035/62/000/010/006/128  
A001/A101

3.2100

AUTHORS: Zaytsev, A. A., Sayetkhanov, A. I., Chernichin, V. G.

TITLE: Graphic control of visual observations of Earth artificial satellites by means of gnomonic cartographic grids.

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 15, abstract 10A140 ("Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli", 1961, no. 23, 3 - 6)

TEXT: It is suggested to use a stellar globe or its mapping onto a plane (so-called central or gnomonic cartographic grids) for graphic control of multiple determinations of the position of Earth artificial satellites during one passage. Examples are presented of using Lorenzoni's grid, polar and equatorial gnomonic grids, as well as the methods of plotting the latter. ✓B

M. I.

[Abstracter's note: Complete translation]

Card 1/1

SIZYKH, Glafira Ivanovna; GAVRILOVA, Yuliya Pavlovna; LEONT'YEV, Andrey Pavlovich; CHERNICHKOV, Viktor Stepanovich; KHANDROS, Gersh Moshkovich; PODTSUYEVA, Lidiya Mikhaylovna; YANKIN, Sergey Mikhaylovich; GITKOVICH, V.K., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Advanced work methods for workers engaged in freight operations] Peredovye metody truda rabotnikov gruzovogo khoziaistva. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshchenia, 1961. 91 p. (MIRA 15:3)  
(Materials handling) (Railroads--Freight)

CHERNICHENKO, V.Ya.; RODIONOV, R.A.; BASALAYEV, V.D.

A good and useful tradition. Elek.i tepl.tiaga 7 no.2:43 F '63.  
(MIRA 16:2)

1. Zamestitel' nachal'nika Kazakhskoy dorogi (for Chernichenko).
  2. Zamestitel' nachal'nika sluzhby lokomotivnogo khozyaystva Kazakhskoy dorogi (for Rodionov).
  3. Nachal'nik otdela remonta sluzhby Kazakhskoy dorogi (for Basalayev).
- (Railroads--Employees)  
(Railroads--Maintenance and repair)

LYUBIMOV, Sergey Petrovich; TSAREV, Vasilij Aleksseyevich; CHERNICHENKO, Yuriy Dmitriyevich; MIRONOV, T.V., red.; MATVEYEV, A.P., tekhn. red.

[Resources of virgin lands are for the people] Bogatstva tseliny - narodu. Moskva, Izd-vo "Sovetskaia Rossiia," 1960. 101 p.

(MIRA 14:7)

(Reclamation of land)

(Agriculture)

CHERNICHENKO, Yu. I.

Motor Fuels

Calculation of fuel economy of an automobile with hydrodynamic transmission in established processes of motion. Avt. trakt. prom. no.12, 1952

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

ESBR  
CATEGORY : Cultivated Plants. Fodder Grasses and Roots.  
RUS. JOURN : Rn Zovv -Biology. , No. 5 , 1959, No. 20357  
AUTHOR : Chernichin, N.  
INST. :  
TITLE : Exerpts from an Experiment in Raising Perennial Grasses in the Northern Forest-Steppe of Bashkiria.  
ORIG. PUB.: S. Kh. Bashkirii, 1958, No.6, 25-27

ABSTRACT : No abstract

CARD: 1/1

CHERNICHIN, V.G.

Tables for computing Gaussian rectangular coordinates from  
geographical coordinates for the solution of a reversed pro-  
blem. Geog.sbor. no.13:183-196 '59. (MIRA 12:6)  
(Coordinates)

S/035/62/000/011/013/079  
A001/A101

3.1410

AUTHOR: Chernichin, V. G.

TITLE: On solving the problems of spherical astronomy by means of  
cartographic networks

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 11, 1962, 19,  
abstract 11A142 ("Byul. Vses. astron.-geod. o-va", 1962, no. 31  
(38), 29 - 36)

TEXT: It is convenient to use a cartographic network for solving some  
problems of spherical astronomy (conversion from horizontal coordinates to  
equatorial ones or determination of the trajectory of a satellite). Several  
types of such networks are presented, and the methods of their construction  
are described: the best precision is assured by the equidistant network of  
Kavrayskiy.

G. B.

[Abstracter's note: Complete translation]

Card 1/1



ZAYTSEV, A.A.; SAYETKHANOV, A.I.; CHERNICHIN, V.G.

Graphic control of visual observations of artificial earth  
satellites by means of gnomonic map lattices. Biul.sta.opt.-  
nabl.isk.sput.Zem. no.23:3-6 '61. (MIRA 15:3)

1. Birskaia stantsiya nablyudeniya iskusstvennykh sputnikov  
Zemli.

(Artificial satellites--Tracking)

**CHERNICHIN, V.G.**

Solving problems in spherical astronomy by means of cartographic grids. *Biul. VAGO* no.31:29-36 '62. (MIRA 16:4)

1. Bashkirskiye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.

(Grids (Cartography))

(Astronomy, Spherical and practical)

CHERNICHINA, M. M.

5983

MAYZLIM TS. A. AND CHERNICHINA, M. M. Uchebnik arifmetiki. Dlya chetvertogo  
Klassa shkol blukhonomykh. Izd. 4Ye m., Uchpedgi: 1955 248s.s ill. 23 sm. 5.5000  
Ekz. 1r/ 80k v per '(55-932) 371. 912: 511(075)

SO: Knizhnyaya 'letopis', 1. 1955

CHERNICHKIN, A.S., inzh.

Determination of the displacement resistance of free-flowing loads  
in scraper conveyors. Mekh. i elek. sots. sel'khoz. 21 no.4:  
47-49 '63. (MIRA 16:9)

1. Volgogradskiy sel'skokhozyaystvennyy institut.  
(Conveying machinery)

CHERNICHKIN, A.S., inzh.

Calculations for scraper feeders. Trakt. 1 sel'khozmasb.  
33 no.11:31-34 N '63. (MIRA 17s9)

*CHERNICHKIN D.S.*

BRON, O.B.; BEL'KIND, L.D.; SHURMAN, G.I.; KAMENKOVA, V.A.; BERGER, A.Ye.;  
CHERNICHKIN, D.S.; TISHCHENKO, M.A.; BORISKO, N.I.; BERTINOV,  
A.I.; SINEL'NIKOV, Ye.M.

Pavel Petrovich Kopniaev; 25th anniversary of his death. Elektri-  
chstvo no. 5:92 My '57. (MIRA 10:6)  
(Kopniaev, Pavel Pertovich, 1867-1932)

CHERNICHKIN, D.S.; BORISENKO, N.I.; MESHCHERYAYKOV, K.N.; KOMAR, Ye.G.; FEDULOV,  
L.N.; KOZLINSKIY, V.A.; MAKSIMOV, A.S.; GEL'PERIN, B.B.

Professor D. V. Efremov; obituray. Elektrichestvo no.2:95-96 F '61.  
(MIRA 14:3)

(Efremov, Dmitrii Vasil'evich, 1900-1961)





AUTHOR: Chernishkin, S.A.

SOV/121-58-8-14/29

TITLE: Thin Gauge Crown Cutters for Deep-Hole Drilling by the Trepanning Method (Tonkostennyye koronki dlya kol'tsevogo svezleniya glubokikh otverstiy)

PERIODICAL: Stanki I Instrument, 1958, Nr 8, pp 32-34 (USSR)

ABSTRACT: The design of crown cutters is discussed and the scheme of a special lathe set up for producing deep axial holes of 30 mm diameter and over in bar stock is illustrated. Each cutting tooth of the crown has an adjoining swarf removal groove on the outside of the crown. The cutting fluid is fed through an annular clearance between the crown holder tube mounted in the special tailstock and the core stem. The crown consists of tungsten carbide teeth inserted into a steel ring which is screwed into the crown holder tube. Recommended design proportions for the crown ring and the carbide inserts are given. Two types of teeth, with face cutting edges and side cutting edges are used. Each edge has a chip breaker indentation. The maintenance of the precise dimensions, as shown in Fig 4, is important.

Card 1/2

Eccentricity and other tolerances are given. Table 1 lists

SOV/121-58-8-14/29  
Thin Gauge Crown Cutters for Deep-Hole Drilling by the Trepanning  
Method

the main dimensions of the crown and the tube for diameters between 30 and 150 mm. Cutting speeds of 50 m/min for carbon steels and 40 m/min for alloy steels and feeds of 0.03-0.05 mm per pair of teeth are recommended. "Sul'fofrezol" (Gost 122-54) is recommended as the cutting fluid. Table 2 lists the required delivery of the cutting fluid pump. Deep hole drilling machines must have an overload device in the main spindle drive. Crown cutters can also be used for short holes in lathes and drilling machines. Such crowns are made of high speed steel. The swarf removal grooves in the crown should have an angle of 20° against the axis, instead of 5° in deep hole drilling. There are 5 figures and 2 tables.

Card 2/2

CHERNICHKIN, S.A.

Sectional head for machining deep holes. Stan.i instr. 33  
no.7:27-28 J1 '62. (MIRA 15:7)  
(Drilling and boring machinery)

CHERNICHKIN, Sergey Anan'yevich; STANKEVICH, V.G., inzh.,  
retsenzent; KOLOSOV, M.A., inzh., red.

[Hog-nose drilling and the machining of deep openings]  
Kol'tsevoe sverlenie i obrabotka glubokikh otverstii. Mo-  
skva, Mashinostroenie, 1964. 238 p.      (MIRA 17:5)

24,2700

69246

SOV/112-59-17-35821

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 17, p 12 (USSR)

AUTHORS: Andrianov, K.A., Gribanova, O.I., Zabyrina, K.I., Chernichkina, A.S.

TITLE: Heat Resistant Electro-Insulating Varnishes on the Base of Silico-Organic Compounds

PERIODICAL: Tr. Vses. elektrotekhn. in-ta, 1958, Nr 62, pp 16-28

ABSTRACT: The heat resistance of silico-organic polymers depends to a great extent on the nature of the organic radical. So, with an increase of the organic radical of the aliphatic series (for instance at a transition from methyl to ethyl) the heat resistance decreases. With an increase of the aromatic radical the heat resistance decreases also. Dielectric characteristics ( $\rho$ ,  $\text{tg}\delta$ ,  $\epsilon$ ) of silico-organic polymers are relatively little dependent on temperature. It can be assumed that this is connected with the low mobility of the chains of these polymers owing to the presence of cross links and with the greater rigidity of siloxan bonds. In order to increase the mechanical strength and adhesion of silico-organic polymers, polar groups must be introduced in organic radicals. Depending on molar relations of initial products, resins and varnishes based on them of various purposes and with

Card 1/2

69246

SOV/112-59-17-35821

Heat Resistant Electro-Insulating Varnishes on the Base of Silico-Organic Compounds

various heat resistances were obtained. Properties and application of varnishes EF-3,  
EF-5, K-44, K-47, K-48 are briefly described.

A.O.M.

Card 2/2

ANDRIANOV, K.A.; GRIBANOVA, O.I.; ZABYRINA, K.I.; CHERNICHKINA, K.I.

Heat resistant and electrically insulating varnishes prepared on  
the basis of silicon organic compounds. Trudy VEI no.62:16-28  
'58. (MIRA 11:11)  
(Electric insulators and insulation) (Varnish and varnishing)

LIPIS, B.V., kand.tekhn.nauk; LYALIKOVA, R.Yu.; CHERNICHUK, L.I.

Spectrophotometric method for determining tanning and coloring  
substances in grape must and wine. Trudy MNIIPP 4:109-114, '64.  
(MIRA 18:1)



CHEMNICKI, Jozef

Activities of the Rzeszow Branch of the Polish Geologic Society.  
Przeł geol 11 no.9:3 of cover, 4 of cover S'63

CHERNIGIN, M. F.

32644. Elektricheskiy nevod. (K. Meklanizatsii rybopromyslov v sssr).  
Ill. i. smekhov i s. pivovarov. Tekhnika - molodazhi, 1949, No. 10, s. 15 - 18

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

CHERNIGIN, N. F.

"Application of Fish Pumps for Unloading Fishing Implements in Kamchatka." Thesis for degree of Cand. Technical Sci. Sub 6 May 49, Moscow Technical Inst of Fishing Industry and Economy imeni A. I. Mikoyan.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

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ACC NR: AP7002649

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SOURCE CODE: UR/0413/66/000/023/0197/0197

INVENTOR: Mineyev, Yu. I.; Chernigin, Yu. P.; Golov, Yu. S.; Sorokin, B. I.

ORG: None

TITLE: A hydraulic servo drive for rudder control. Class 65, No. 146667

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 197

TOPIC TAGS: marine engineering, hydrofoil, rudder, hydraulic device, servosystem

ABSTRACT: This Author's Certificate introduces a hydraulic servo drive for controlling the rudders on hydrofoil boats. The unit contains a slide-valve device for distribution of the working fluid to the cavities above and below the piston in the power cylinder, a hydraulic pump and a system of check valves. The technical and economic indices of the control system are improved, design is simplified and reliability is increased by using a plunger pump connected to a common hydraulic system. The pump rotor is linked to the steering mechanism while the suction and discharge lines are connected to the master hydraulic cylinder. The master cylinder is rigidly fastened to the power cylinder and the master cylinder rod interacts with the slide valve. The valve housing is linked to the hydraulic power cylinder of the tiller unit.

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