

8/658/62/000/010/003/008
A059/A126

Bipolar flow in a particular magnetic field

$$k = \left(\frac{a}{d_0}\right)^2 = \left[\frac{\sqrt{x}}{2} \frac{\sqrt{n}}{s} \frac{\Gamma\left(\frac{3n+1}{4}\right)}{\Gamma\left(\frac{3n+3}{4}\right)} \right]^2$$

is obtained for the ion beam, where d_0 is the parameter characterizing ion flow. When $s^2 \ll 1$, the asymptotic estimate

$$k \approx \frac{1}{s^2} \quad (s^2 \ll 1)$$

is obtained. Thus, the quality of the given accelerating gap can be made as great as desired. This fact, which seems paradoxical at first sight, is explained by the compensation of the volume charge of the ion beam by an electron-volume charge throughout the accelerating gap ($0 < x < a$). Without respect to the fact that the ratio $\frac{n_0}{n_+} = s$ is small (with $s^2 \ll 1$), the actual electron density in the flow n_+ remains comparable with the ion density n_+ throughout the accelerating gap a . In fact, when the asymptotic formulas for small values of s are used, it can be shown that

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$$n_- = n_-^0 \frac{n_+^0 s}{\sqrt{u - \varphi}} \approx \frac{n_+^0}{t s^2 (1 - t)};$$

$$n_+ = n_+^0 \frac{1}{\sqrt{1 - u}} = \frac{n_+^0}{t s^2};$$

$$\frac{n_-}{n_+} = \frac{1}{1 - t}.$$

Hence, the ratio n_-/n_+ is, in the flow pattern given, independent of the parameter s and, therefore, n_- and n_+ are comparable values throughout the range $0 < x < a$. Chebyshev is mentioned. There are 9 figures and 1 table.

Card 3/3

DANILOV, V.N.

8/658/62/000/010/004/000
A059/A126AUTHOR: Danilov, V.N.

TITLE: On the neutralization of an ion beam by electrons in a magnetic field

SOURCE: Moscow. Fiziko-tekhnicheskiy institut. Trudy, no. 10, 1962. Issledovaniya po fizike i radiotekhnike. 80 - 86

TEXT: With respect to the fact that the thermal velocities of electrons were not taken into consideration, only qualitative conclusions can be made on the behavior of neutralizing waves in the presence of a slowly decreasing weak magnetic field. In the presence of a magnetic field, a condition necessary for the neutralization of an ion beam by electrons is

$$\frac{e}{m_e} (A_{00} - A_g) < \sqrt{\frac{2e}{m_e}} u_0, \quad (8)$$

where A_g is the magnetic potential of the neutralizing grid, m_e is the mass of an electron, u_0 the characteristic potential difference, and A_{00} the value to which

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On the neutralization of an ion beam by

the magnetic potential converges when $x \rightarrow 0$. The potential of the flow can be represented in the form:

$$u = \frac{1}{2} \left[\frac{e}{m \cdot c^2} (A - A_g)^2 + \psi \right],$$

where ψ is the wave portion of the potential; the low-amplitude function $\psi_m \ll u_0$. The neutralizing-wave length in the magnetic field is of the same order as the neutralizing-wave length obtained in the absence of the magnetic field. The amplitude of the neutralizing waves ψ_m is related to the wave amplitude ψ_m in the absence of the magnetic field by the expression:

$$\psi_m = \psi_m \left\{ 1 - \frac{\left[\frac{e}{m \cdot c} (A - A_g) \right]^2}{2 \frac{e}{m} u_0} \right\},$$

which slowly decreases with the passed distance in proportion to the decrease of the magnetic potential

$$A \Big|_{x \rightarrow \infty} \rightarrow A_{\infty} \Big|.$$

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ACCESSION NR: AR4014766

S/0058/63/000/012/E044/E044

SOURCE: RZh. Fizika, Abs. 12E379

AUTHORS: Danilov, V. N.; Slovikovskiy, G. F.

TITLE: Display of dislocation in crystals of dielectrics

CITED SOURCE: Izv. Kiyevsk. politekhn. in-ta, no. 40, 1962, 126-131

TOPIC TAGS: dielectric, dielectric crystals, dislocation, chemical etching, thermal etching, etching, etch pits, Cottrell atmosphere, excess vacancies

TRANSLATION: Dislocations in single crystals of KCl, NaCl, and LiF were displayed by chemical and thermal etching. It was observed that in incandescent crystals the regular form of the etch pits becomes violated; this phenomenon is attributed to the formation around the dislocations of Cottrell atmospheres made up of excess

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ACCESSION NR: AR4014766

vacancies. It is found that the dislocation density increases sharply following electrical breakdown of the dielectric. Yu. Fishman.

DATE ACQ: 24Jan64 .

SUB CODE: PH

ENCL: 00

Card 2/2

DANILOV, V.N.

Generalized Brillouin mode of electron streams. Radiotekh.
1 elektron. 8 no.11:1892-1900 N '63. (MIRA 17:1)

DANILOV, V.N.

Brillouin state of a two-dimensional electron flow. Radiotekh. i
elektron. 8 no.12:2046-2054 D '63. (MIRA 16:12)

BENDERSKIY, L.S.; BYSTPOV, A.M.; VASIL'YEV, N.V.; GORELIKOV, V.I.
LANILOV, V.N.; LIVINSKIY, Yu.L.; YEFMOLAYEV, V.A.; KOZYAKOV, V.M.;
FEDOROV, V.V.

Producing quality casting of magnesium alloys by means of
liquid metal filtration. Lit. proizv. no.11: 67-79 N 164.
(MIRA 18:8)

ACCESSION NR: AP4043673

S/0109/64/009/008/1399/1404

AUTHOR: Danilov, V. N.

TITLE: Near-critical behavior of a magnetron

SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1399-1404

TOPIC TAGS: magnetron, magnetron theory

ABSTRACT: The behavior of a real static magnetron during cutoff is theoretically investigated. Neglecting the thermal velocities of electrons, the solutions are considered as a function of the cutoff current which is regarded as a continuous variable. A set of multistream and single-stream states corresponds to the cutoff conditions in a magnetron; these states permit establishing a connection between the pre-cutoff Braude solutions and post-cutoff Brillouin solutions. The exact solutions for a plane-parallel magnetron are obtained. A wide class of single-stream states of a 3-dimensional magnetron for small cutoff

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ACCESSION NR: AP4043673

currents is found. With a decreasing anode current, these undulating states change into a generalized Brillouin mode of motion of the electron cloud. Orig. art. has: 31 formulas.

ASSOCIATION: none

SUBMITTED: 11May63

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 002

Card 2/2

I 19030-65 INT(1)/RFA(w)-2/RUC(v)/RUC(b)-2 Feb-10

ACCESSION NR: AP5000455

S/0109/64/009/012/2140/2146

AUTHOR: Danilov, V. N.

TITLE: Role of point canonical transformations in electron hydrodynamics

SOURCE: Radiotekhnika i elektronika, v. 9, no. 12, 1964, 2140-2146

TOPIC TAGS: electron hydrodynamics

ABSTRACT: By applying the Lagrange theorem to an electron beam, D. Gabor (Proc. IRE, 1945, 30, 11, 792) obtained a condition of noncircuital field of a generalized electron-beam impulse. The present article tries a similar approach to the general problem of nonrelativistic electron hydrodynamics, without meeting the Gabor condition but assuming that the field of electron-beam velocities is single-valued. The point canonical transformations (12, 13) with certain restrictions (8, 8') are applicable to any hydromechanics in which generalized forces acting upon a fluid particle having a fixed mass permit a generalized

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ACCESSION NR: AP5000455

potential of these forces. Canonical equations of nonrelativistic electron hydrodynamics are set up, as well as a Hamilton-Jacobi equation for a nonrelativistic electron beam. Approximate methods for estimating the intrinsic field of an electron beam are indicated. Orig. art. has: 40 formulas.

ASSOCIATION: none

SUBMITTED: 17Jul63

ENCL: 00

SUB CODE: EC, NP

NO REF SOV: 005

OTHER: 001

Card 2/2

L 14431-66 ENT(m)/T/EMP(t)/EMP(z)/EMP(b) IJP(c) JD/E

ACC NR: AP6002647 (N) SOURCE CODE: UR/0021/65/000/011/1465/1467 60
598

AUTHOR: Danylov, V. N. -- Danilov, V. N.; Slovikovs'kyv, H. E. -- Slovikovskiy, G. F.;
Shklyaruk, L. I.

ORG: Kiev Institute of Technology (Kyyirs'kyv tekhnologichnyy instytut); Kiev Polytechnic Institute (Kyyirs'kyv politekhnichnyy instytut)

TITLE: A study of metal regression after hardening.

SOURCE: AN UkrRSR. Dopovidl, no. 11, 1965, 1465-1467

TOPIC TAGS: hardness, electric conductivity, annealing, silver, nickel

ABSTRACT: The authors investigated metal regression after hardening on technically pure nickel and 99.99% pure silver. Electrical resistivity and microhardness measurements are used to show that in the case of technically pure metals the regression curve after annealing hardening has at room temperature a maximum which is absent in pure and deformed metals. This microhardness maximum can be explained by interactions of frozen vacancies with dislocations. The maximum on the electrical conductivity regression curve can be explained

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L 14431-66

ACC NR: AP6002647

by mutual interactions among vacancies and their interactions with impurities and dis-
locations. The paper was presented by Academician B. E. Paton, Member of AN UkrSSR.
Orig. art. has: 5 figures.

SUB CODE: 11 / SUBM DATE: 28May64 / ORIG REF: 003 / OTH REF: 007

BKH
Card 2/2

PRIDANTSEV, M.V.; KAZARNOVSKIY, D.S.; DANILOV, V.N.; VFKSEF, N.A.;
NIKONOV, A.G.; BYKOV, N.F.

Isothermal treatment of rails. Stal' 25 no.4: 358-361 Ap '65.
(MIRA 18.11)

DANILOV, V.N., doktor tekhnicheskikh nauk.

Problems and methods of investigation. Trudy TSNII MPJ no.111:
5-8 '55. (MLRA 9:5)

(Railroads--Rails)

DANILOV, V.N., doktor tekhnicheskikh nauk.

Cross sections of experimental rails. Trudy TSMII MPS no.111:
8-22 '55. (MLRA 9:5)
(Railroads--Rails)

DANILOV, V.M., doktor tekhnicheskikh nauk.

Stress in experimental rails. Trudy TSMII MPS no.111:83-93 '55.
(MLRA 9:5)

(Railroads--Rails)

DANILOV, V.N., doktor tekhnicheskikh nauk.

Operational tests of experimental rails on the Tomsk Railroad.
Trudy TSNII MPS no.111:94-124 '55. (MLhA 9:5)
(Railroads--Rails)

DANILOV, V.M., doktor tekhnicheskikh nauk.

General conclusions. Trudy TSNII MPS no.111: 87-190 '55.
(MLRA 9:5)

(Railroads--Rails)

BROMBERG, Ye.M., kandidat tekhnicheskikh nauk; VERIGO, M.F., professor;
DANILOV, V.N., professor; FRISHMAN, M.A., profesor; SOROKIN, N.N.,
inzhener, redaktor; KHITROV, P.A., tekhnicheskij redaktor

[Interrelation of track and railroad rolling stock] Vzaimodeistvie
puti i podvizhnogo sostava. Pod obshchei red. M.A.Frishmana. Moskva,
Gos.transp.zhel-dor. izd-vo, 1956. 279 p. (MLRA 9:11)
(Railroads--Track)

137 58-4-7069

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 4, p 110 (USSR)

AUTHOR: Danilov, V. N.

TITLE: Groove Designing as One of the Means of Improving the Quality of Rails (Okazhivaniye kak odno iz metodov uluchsheniya kachestva rel'sov)

PERIODICAL: Voprosy Ratsionalizatsiya pri tepley profkata, Moscow, Pretizdat, 1956, pp 181-184

ABSTRACT: It is noted that the groove design for rails (R) affects the wear resistance and fatigue strength of the rails substantially as do alloying and heat treatment. Thus, R rolled from the same billet but having head widths of 66-67 mm and 70-71 mm exhibit a σ_b of 95 and 91 kg/mm² respectively. In service, they show 20-30 percent higher resistance to wear. R of the Azovstal' Plant made from a groove design providing a greater degree of reduction are superior to R produced at the KMK. It is also noted that a camber of R which constitutes a rolling and straightening defect having a magnitude of about 1 mm per running meter reduces service life by one-half or more. It is noted that in this country, full heat treatment of R is not yet practiced. V. F.

Card 141

1. Rolling mills. 2. Rails--design. 3. Railroads--Apparatus.

DANILOV, V.N., professor, doktor tekhnicheskikh nauk.

Work on rail tracks of the heavy type. Zhel.dor.transp.37 no.4:
59-65 Ap '56. (MLRA 9:7)

(Railroads--Rails)

AUTHOR: Danilov, V. N. 130-5-9/22
TITLE: The Quality of Railway Rails (O kachestvye zheleznodorozhnykh rel'sov).
PERIODICAL: "Metallurg" (Metallurgist) 1957, No.5, pp.19 - 21, (USSR).
ABSTRACT: Type P-43, P-50 and P-65 rails, weighing 43, 50 and 65 kg. respectively, are at present rolled for Soviet railways. Preparations are being made for rolling Type P-75 rails. In this article rail quality is considered with special reference to the size of the rail. It is to be expected that heavier rails will have a longer service life, and calculations have shown that the additional initial expense is soon recouped. Safety is also increased with larger rails. Tests with P-65 rails have shown that they wear by only 1.8 mm on the inside and by 1.1 mm on the outside of a sharp curve over which 170 million tons of freight have passed. For Type P-50 rails, rolled at the Kuznetskiy metallurgical combine the number of rails rolled in 1949, 1950, 1951, 1952, 1953, 1954 which had to be replaced per 100 km of track was 97.1, 67.6, 30.2, 26.2, 6.9 and 3.5, respectively. A considerable increase in the

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The Quality of Railway Rails. (Cont.) 130-5-9/22

number of rail breakages on increasing the mean values of active loads can be explained by the fact that the stresses produced under many wheels exceed the endurance limit of the rail steel. Comparing the behaviour of rails produced at different works, it is found that great differences exist between works for some types of rails but not others. Tests on a stretch of the Tomsk line have shown that rails with a smaller head (which cooled more rapidly) had a resistance to wear 25-35% greater than those with a broader head. This indicates that intensification of cooling should improve rail performance. It appears that the contact-surface strength of rail heads is insufficient for modern conditions. Laminations are frequently encountered, originating at zones rich in non-metallic inclusions. (An editorial note points out that only rarely are non-metallic inclusions found in the laminated zones, the cause of lamination evidently being excessive contact stresses). Cleaner metal is thus required for better rails. Defects are especially liable to appear in rails in the winter months, as shown by relative figures for different periods. Where

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The Quality of Railway Rails. (Cont.) 130-5-9/22

cavities have been produced on the rail no deficiencies in the metal have been observed, and this form of defect is attributed to excessive residual deformations of the metal for the available resistance to high contact stresses: a higher yield point would help to avoid this defect, but an experimental batch of rails with hardened heads have not given good service. Dangerous forms of defects have been very considerably reduced in recent years by rail makers, but further efforts on the detection of hairline cracks is necessary.

ASSOCIATION: All-Union Research Institute of Rail Transport.
(Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta).

AVAILABLE:

Card 3/3

DANILOV, V.N., prof.

~~From the 18-pound rail to the R75. Put' i put.khoz. no.11:8-10~~
N '57. (MIRA 10:11)

(Railroads--Rails)

DANILOV, V.N., prof., doktor tekhn.nauk

Why is it impossible to increase only the rail cap? Put' i put.khoz.
no.10:40-41 0 '58. (MIRA 11:12)
(Railroads--Rails)

DANILOV, V.N., doktor tekhn.nauk prof.

Calculating the accumulation of residual deformations in
railroad beds. Vest. TSNII MPS [17] no.3:37-41 My '58. (MIRA 11:6)
(Railroads--Track)

DANILOV, V.N., doktor tekhn.nauk, prof.

Interaction of cars and switches in countercurrent traffic on
side tracks. Vest.TSNII MPS 18 no.3:20-22 My '59.

(MIRA 12:8)

(Railroads--Cars) (Railroads--Switches)

DANILOV, V.N., doktor tekhn.nauk

Ways to lengthen the life of heavy rails. Zhel.dor.transp. 42
no.3:37-41 Mr '60. (MIRA 1):6
(Railroads--Rails)

DANILOV, Vladimir Nikolayevich, doktor tekhn. nauk; KOROLEV, K.P., prof.,
retsenzent; YAKOVLEV, V.F., kand. tekhn. nauk, retsenzent; SER-
GEYEVA, A.I., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Railroad track and its interaction with the rolling stock]
Zheleznodorozhnyi put' i ego vzaimodeistvie s podvizhnym sostavom.
Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshche-
niia, 1961. 110 p. (MIRA 14:8)

(Railroads--Track)

DANILOV, V.N.

Methods for evaluating the resistance of rail steel to
destruction under the impact of repeated plastic deformations.
Izv.lab. 28 no.10:1248-1250 '62. (MIRA 15:10)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.
(Railroads—Rails) (Steel—Testing)

BERNDT, N.V., inzh.; ~~DANILOV, V.I.~~, inzh.; SOKOLOVA, I.N., inzh.;
VASIL'YEVA, N.N., tekhn. red.

[Production and financial plan of a railroad division] Pro-
izvodstvenno-finansovyi plan otdeleniia zheleznoi dorogi.
Moskva, Transzheldorizdat, 1963. 146 p. (MIRA 16:8)
(Railroads--Management)

DANILOV, V.I., inzh.

Design of a new 6D70 diesel for use in switch engines. Elek.
i tepl. tiaga 7 no.3:25 Mr '63. (MIRA 16:6)

(Diesel locomotives)

DANILOV, V.N. doktor tekhn. nauk, prof., YAKOVLEV, V.F., kand. tekhn. nauk;
SEMENOV, I.I., inzh.

Dynamic characteristics of the rail support. Vest. TSNII MPS
23 no.7:16-17 '64. (MIRA 18:3)

1. Moskovskiy i Leningradskiy instituty inzhenerov zheleznodorozhnogo
transporta

L 33950-65 EPA(a)-2/EWT(m)/EPF(n)-2/EWA(d)/EPR/EWP(t)/ENP(b) Ps-4/Pt-10/Pu-1
LJP(G) MJW/JD/MW/JG

4c

ACCESSION NR: AP4049500

S/0128/64/000/011/0037/0039

48

AUTHOR: Benderskiy, L. S. (Engineer); By*strov, A. M.; Vasil'yev, N. V.;
Gorelikov, V. D.; Danilov, V. N.; Divinskiy, Yu. L.; Yermolayev, V. A. (Engineer);
Kosyakov, V. M.; Pecherov, V. V. (Engineer)

B

TITLE: Obtaining high-grade castings from magnesium alloys by filtering the liquid metal

SOURCE: Litaynoye proizvodstvo, no. 11, 1964, 37-39

TOPIC TAGS: magnesium alloy, magnesium base alloy, foundry technology, alloy casting, metal filtration

ABSTRACT: A method of obtaining high-grade castings from magnesium alloys by filtering the liquid metal was investigated. The effectiveness of filtering liquid alloy MLS and the effect of filtration on the chemical composition, mechanical properties and structure of the alloy were determined. The investigations showed that there are no flux and slag inclusions in the fractures. The author concludes that defects from flux and slag inclusions are reduced by a factor of 12-15, and final flow is reduced by a factor of 7-8. The optimum ratio between the total area of grid openings and the total area of the cross section of the risers should be no less than 5:1. The recommended height of the filter is 60-80mm. Orig. has: 7 Cards/2 figures and 1 table.

DANILOV, V.N.

Behavior of a magnetron near its critical mode. Radiotekh. i elektron.
9 no.8:1399-1404 Ag '64. (MIRA 17:10)

DANT. IV, V.N.

Compensation of an ion space charge by electrons in a magnetic field.
Radiotekhnika i Elektronika, 9, no. 8, 1930-1931, 1964.

(MIRA 10, 10)

DANILOV, V.P., kand. ist. nauk; GUDKOVA, N., red.; SEMENOVA, O.,
tekh. red.

[Studies on the history of the collectivization of agri-
culture in the Union Republics] (Icherki istorii kollektivi-
zatsii sel'skogo khoziaistva v soiuzykh respublikakh. Mo-
skva, Gospolitizdat, 1963. 558 p. (MIRA 16:11)
(Collective farms)

ACC NR: AP6036350

SEARCH CODE: U./3301/0013 002/0031/0093

AUTHORS: Arustamov, G. A.; Malyshko, I. M.; Danilov, V. P.; Shapovalov, P. P.

ORG: VNIIM, Kishinev

TITLE: New ultrasonic defectoscopes DUK-11IM and DUK-13IM for quality control of welded joints

SOURCE: Defektoskopiya, no. 4, 1966, 91-93

TOPIC TAGS: weld defect, ultrasonic inspection, ultrasonic flaw detection, defectoscope/ DUK-11IM defectoscope, DUK-13IM defectoscope

ABSTRACT: Defectoscope models DUK-11IM and DUK-13IM, developed by VNIIM for either portable or production operation in quality control of welded joints, are described. The model 11 is packaged in one unit (197 x 278 x 330 mm, 9.8 kg), while the model 13 consists of three interconnected units (the defectoscope - 110 x 233 x 174 mm, 4 kg; the power supply and the accumulator power supply - unspecified size). Both models operate at 1.8 and 2.5 Mc, have a minimum sensitivity of 2 mm² (equivalent area of defect), and have straight and slanted detector heads (to introduce waves at 30, 40, and 50°). The model 11 has a maximum penetration of 750 mm (in steel) and the model 13 has 600 mm. Both are equipped with electronic depth meters to pinpoint the defect coordinates. Schematic diagrams of the operational blocks of the defectoscopes are presented, and prices of the defectoscopes are given. Orig. art. has: 4 figures and 1 table.

SUB CODE: 13/ SUBM DATE: 14Mar66

Card 1/1

UDC: 620.179.16

DANILOV, V. P.

DANILOV, V. P. "Stem Nematode in Strawberries, " Sad i Ogorod, no. 2, 1949
p. 38-39. 90 Sa13

SO: SIFA -SI - 90-53, 15 Dec. 1953

DANTLOV, V. P.

Strawberries - Diseases and Pests

Control of the strawberry stem eelworm, Sad i og., no. 7, 1952.

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

U.S.S.R. P
INSTITUTE OF APPLIED ENTOMOLOGY, SECTION: Harmful Insects
of Siberia
S. MOISEVICH (Entomology) 12-11-67. 7072
Bamley, V.P.
Not given
A New Method of Control of the Star of
Siberia.

Kh. Kabana. Insect. byul., 1957, No.1,
p. 32

The application of BHC to the soil during the
spring of undisturbed seeds in the fields
leads to the death of the larvae of the
larvae of the star of Siberia and the
harmful beetles by 25-30% and increasing
the amount of the larvae by three times.
When the soil is treated with BHC and sown
with supplementary BHC within a distance
of a distance of 15 cm from the hill, the
damage to the soil and the shoots caused by the

C. No: 1/2

AMINOVA, R.Kh., kand. ist. nauk; TETENEVA, I.G., kand. ist. nauk;
ALIMOV, I.A.; DMITRIYEV, G.L.; DZHAMALOV, I.B., doktor
ekon. nauk, redaktor; DZHURAYEVA, T., kand. ist. nauk,
red.; AIFENYUK, S.Ya., red.; DANILOV, V.P., glav. red.;
BELCOV, G.A., red.; GRIGOR'YAN, I.L., red.; IBRAGIMOV, Z.I.,
red.; IVNITSKIY, N.A., red.; IL'YASOV, S.I., red.; KAKABAYEV,
S.D., red.; KAMENSKAYA, N.V., red.; KRAYEV, M.A., red.;
KULIYEV, O.K., red.; MAKHARADZE, N.B., red.; OBICHKIN, G.D.,
red.; PLESHAKOV, S.T., red.; RADZHABOV, Z.I., red.; SELEZNEV,
M.S., red.; TURSUNBAYEV, A.B., red.; FEDOROV, A.G., red.;
SHEPELEVA, T.V., red.; PATLAKH, B., red.; MASHARIPOVA, D.,
red.; BULATOVA, R., red.; GOR'KOVAYA, Z.F., tekhn. red.;
KARABAYEVA, Kh.U., tekhn. red.

[Socialist reorganization of agriculture in Uzbekistan]
Sotsialisticheskoe pereustroistvo sel'skogo khoziaistva v Uz-
bekistane, 1917-1926 gg. Pod red. I.B. Dzhamalova. Tashkent,
Izd-vo Akad. nauk UzSSR. Vol.1. 1962. 792 p. (MIRA 16:5)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut istorii i
arkheologii.

(Uzbekistan--Agriculture)

V, V.I.

Controlling front activities. (see p. 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)

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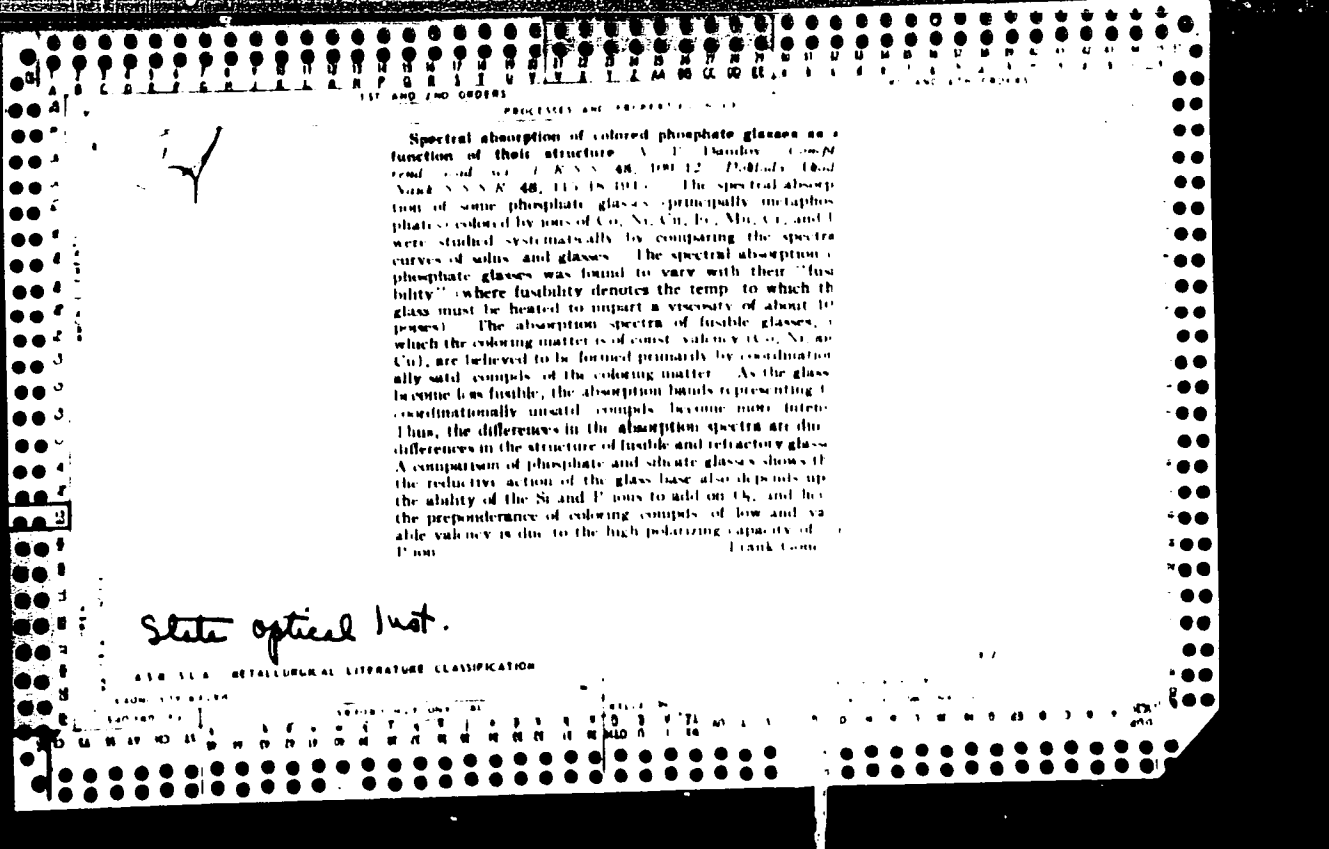
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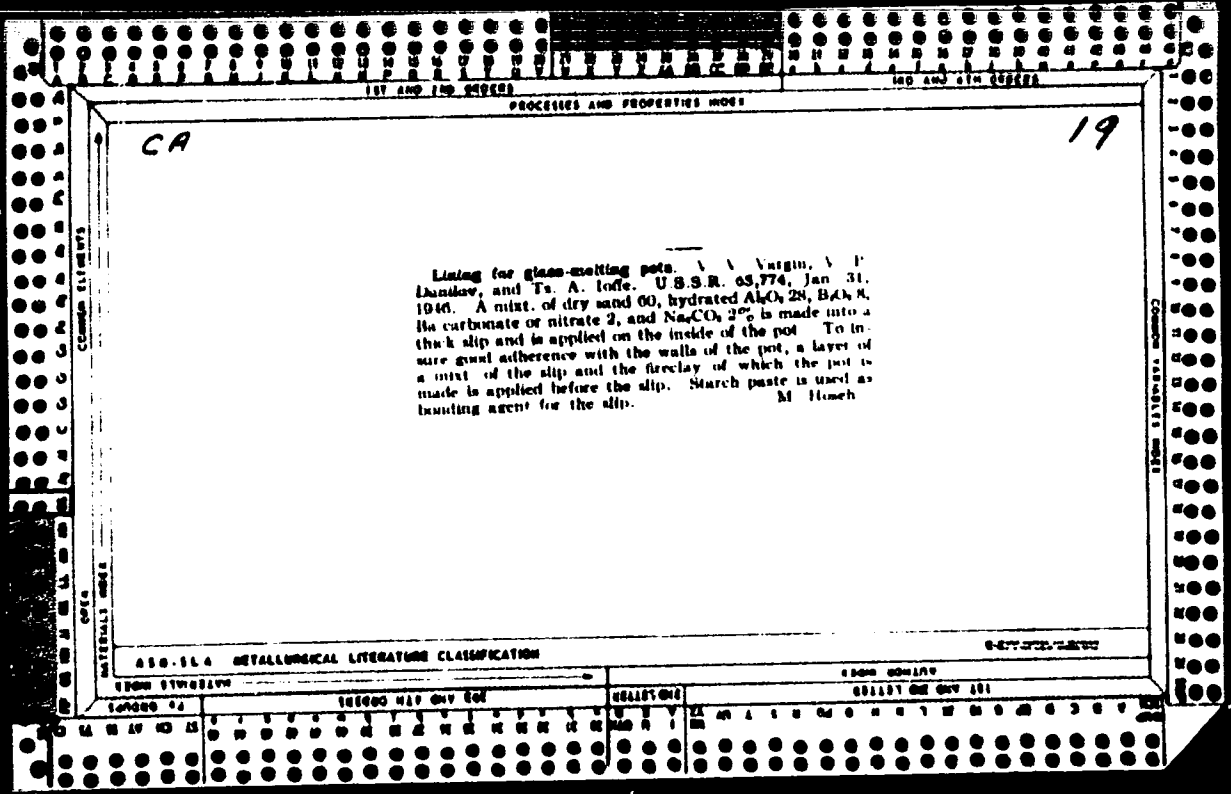
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Uviol borate glass for bactericidal lamps. Y. P. DANILYU AND Z. A. JOSSA. *Compt Rend Acad. Sci. U.R.S.S.* 237 (8) 214-26 (1943).—The characteristic property of a bactericidal lamp is its transmission of the Hg line of wave length 254 mμ. Such glass should at the same time almost entirely absorb the shorter waves of the spectrum because they adversely affect human organisms. The purpose of this investigation was to find the composition of such glass that could be prepared from materials requiring no special preparations. This eliminated all the silicate and borosilicate uvial glasses, because these require a highly purified sand, and also phosphate glass. Under the influence of ultraviolet irradiation, phosphate glass loses its transparency and becomes unfit for use. Furthermore, many of the phosphate glasses can be joined neither to metal used in making the lamp nor to nonphosphate glass. The raw material used in preparing the desired glass was B₂O₃, BaCO₃, hydrated Al₂O₃, and Na₂CO₃. The raw material contained a minimum of Fe₂O₃, which did not exceed 0.01%. In composing the glass it was required that its coefficient of expansion differ only slightly from that of the lead-in and that the glass be sufficiently chemically resistant when used in closed rooms. Two compositions were finally chosen, (1) B₂O₃ 65, Al₂O₃ 17.5, BaO 21.0, and Na₂O 7.5%, and (2) B₂O₃ 60, Al₂O₃ 18.0, and BaO 23.0%. The glasses were much alike. The fusion was carried out at 1150°, both were "long glasses" and were worked at 850° to 900°. They crystallized slower than Pyrexall window glass. The glasses studied, including these two, show a tendency to cloud when worked in a glass blower's burner. The clouding is apparently due to gases dissolved in the glass. This is particularly bothersome in making the ends of the bulbs. It can be overcome by using for the ends glass No. 23 from the Dushanaya Ouzka plant

(1) the two glasses chosen, the first is somewhat more chemically resistant, but the second is better handled in a burner. The effect of B₂O₃ was studied by varying its content from 60 to 65%. Raising the B₂O₃ content lowers the chemical resistance of the glass but has a favorable effect on the other properties. It extends the softening interval, diminishes the tendency of the glass to crystallize, and increases the resistance to "coloration." In addition, B₂O₃ is relatively free of Fe₂O₃, and if it should be contaminated with the Fe₂O₃, this can be easily removed. Raising the B₂O₃ content above 60% is inadvisable because the chemical resistance of the glass drops considerably. The BaO content was varied from 20 to 40%. BaO raises the chemical resistance. It was chosen in preference to other alkaline earth oxides since it is least contaminated with Fe₂O₃. Increasing the BaO content beyond 40% renders the glass too "short." Al₂O₃ is incorporated in the glass to increase its chemical resistance and extend its softening interval. Increasing the Al₂O₃ content above 20% increases the tendency of the glass to crystallize. In addition, during the fusion of mixes rich in Al₂O₃, a pellicle is formed on the surface of the melt which is apparently a high melting hetero-aluminate glass. It is preferable to use hydrated Al₂O₃ in the batch since Al₂O₃ dissolves with difficulty in B₂O₃. Al₂O₃ also frequently contains Fe₂O₃, which is hard to remove. The primary purpose of Na₂O is to inhibit crystallization in glasses containing considerable quantities of Al₂O₃. The optimum Na₂O content does not exceed 7.5%. In industrial practice, a suitable lining must be provided for the melting pot to prevent Fe from the lining from contaminating the glass. Samples of glass tested in lamps transmitted 2% of λ = 254 mμ, whereas tested samples of Pyrex lamps transmitted only 20%. M. H.

Colored Glass Lab, Seltz optical Inst.





PA 607110

USSR/Physics
Spectra, Absorption
Glasses

Dec 1947

"Laws Concerning the Change of the Absorption Spectra of Glasses Colored With Neodymium," V. P. Denilov, State Optical Inst, 4 pp

"Dokl Akad Nauk SSSR, Nova Ser" Vol LVIII, No 7

Singularity of spectral properties in a given case is that, in distinction from other inorganic dyes, neodymium compounds in glass produce narrow strips of absorption. This property is especially valuable for theoretical study since, with narrow absorption strips, it becomes possible to observe

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Dec 1947

USSR/Physics (Contd)

smallest changes resulting from changes in composition of medium surrounding ion of the dye. Continued research on use of neodymium as an "index" of structural changes in glass. Submitted by Academician I. I. Chernyayev, 26 Apr 1947.

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DANTOV, V. P.

1953, No. 1.

1. 1953, No. 1.

2. 1953, No. 1.

3. 1953, No. 1.

4. 1953, No. 1.

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

DANILOV, V P

USSR/Physics-Luminiscence, for defectoscopy

FD-1235

Card 1/1 Pub. 153-19/22

Author : Vaynberg, B. I., Danilov, V. P. and Pekerman F. M.

Title : Luminescent lamp for analysis of luminiscence

Periodical : Zhur. tekhn. fiz., 24, 1707-1710, Sep 1954

Abstract : A source of luminiscence excitation for the analysis of materials is described. The source consists of a luminescent vacuum tube made of glass transparent in the near ultraviolet up to 360 millimicrons and absorbing in visual light (glass UFS-4). This lamp is considered advantageous in comparison with other. Indebted to P. P. Feofilov and S. I. Levikov. Three references including one US.

Institution :

Submitted : January 1954

DANILOV, V.P.

Spectral absorption of some simple-composition glasses subjected
to gamma-ray and X-ray radiation. Opt.-mekh. prom. 25 no. 2:45-47
'58. (MIRA 11:7)

(Glass research)
(Absorption spectra)
(Nuclear physics)

DANILOV V.P.

65

M/07/60/000/05/021/021
003/1008

Syzdankyn, S. E.

2nd All-Union Conference on the Vitreous State

Stable i Ivanovka, 1960, Nr. 3, pp 43-46 (USSR)

The 2nd All-Union Conference on the Vitreous State was held in Leningrad at the end of 1959. It was organized by the Institute of Glass and Silicates of the Ministry of Chemical Industry (VNIIS). The conference was held in the city of Ivanovka. The participants included scientists from various institutes and universities. The conference was devoted to the study of the properties of glasses and the mechanisms of their formation. The conference was held in a friendly atmosphere and was very productive. The results of the conference were published in the journal "Stable i Ivanovka".

At the 1st meeting, reports dealt with glasses as a material with special properties and the influence of the composition on the mechanical properties of glasses. The reports were made by V. I. Izrael and V. V. Vozvrazh. The reports dealt with the properties of glasses with their structure. The reports were made by A. A. Kozlov and V. V. Vozvrazh. The reports dealt with the properties of glasses with their structure. The reports were made by A. A. Kozlov and V. V. Vozvrazh. The reports dealt with the properties of glasses with their structure. The reports were made by A. A. Kozlov and V. V. Vozvrazh.

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The book contains the reports and discussions of the Third All-Union Conference on the Vitreous State, held in Moscow in November 1963. It is devoted to the results of studies on the structure of glasses, the relation between the structure and properties of glasses, the nature of the chemical bond and glass structure, and the relationship of glasses to other states, anomalies of vitrification, optical properties, and glass structure, and the electrical properties of glasses. The book also contains a number of papers dealing with the dependence of physical properties on composition, the structure of glasses, optical properties of glasses, and the structure of glasses. The book is intended for researchers in the science and technical use of glasses.

Editors: Boris A. Averbach, V.P. Pavlov, M.A. Babitskiy, G.P. Povalitskiy, V.A. Volyn, J.S. Vesselskiy, A.L. Golovinskiy, M.A. Melnik, V.A. Molodtsov, I. I. Myshkin, Ye.K. Ponomarev, S.A. Tolstopyanov, A.L. Tolstopyanov, A.L. Tashirov, P.I. of Petrovskiy, L.V. Sazonov, Ye.Ye. L'vov, V.S. Buchnev.

PREFACE: This book is intended for researchers in the science and technical use of glasses.

CONTENTS: The book contains the reports and discussions of the Third All-Union Conference on the Vitreous State, held in Moscow in November 1963. It is devoted to the results of studies on the structure of glasses, the relation between the structure and properties of glasses, the nature of the chemical bond and glass structure, and the relationship of glasses to other states, anomalies of vitrification, optical properties, and glass structure, and the electrical properties of glasses. The book also contains a number of papers dealing with the dependence of physical properties on composition, the structure of glasses, optical properties of glasses, and the structure of glasses.

The book is intended for researchers in the science and technical use of glasses.

Editors: Boris A. Averbach, V.P. Pavlov, M.A. Babitskiy, G.P. Povalitskiy, V.A. Volyn, J.S. Vesselskiy, A.L. Golovinskiy, M.A. Melnik, V.A. Molodtsov, I. I. Myshkin, Ye.K. Ponomarev, S.A. Tolstopyanov, A.L. Tolstopyanov, A.L. Tashirov, P.I. of Petrovskiy, L.V. Sazonov, Ye.Ye. L'vov, V.S. Buchnev.

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S/081/67, 000/010/010/085
B138/B101

AUTHORS: Ignatova, Ye. A., Bereznikova, I. A., Pechurava, N. I.,
Dmitrov, V. P.

TITLE: Composition studies of calcium, strontium and barium uranate
precipitations, formed at different pH values of the solution

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 94, abstract
10V17 (Sb. "Issled. v obl. khimii urana". M., Mosk. un-t, 1961,
173 - 181)

TEXT: The composition of Ca, Sr and Ba uranates formed at different solu-
tion pH values has been investigated. By means of X-ray diffract. anal-
ysis it was found that only a few hydrolysed mono-uranate and di-uranate
of Ca could be precipitated from the solution. When sediments got at pH
4.2 - 6.6 were obtained a solid solution was formed on U_3O_8 base. Chemical
analysis of the precipitated Sr uranates obtained at pH values corresponding
to inflection points on the potentiometric titration curves showed the
formation of mono-, di-, tri- and hexa-uranates of Sr. Most of them were
heavily hydrolysed. The composition of the precipitated uranates depends
Card 1/2

Composition studies of calcium, ...

S/081/62/000/010/010/085
3138-B101

on the order in which the reagent solutions are mixed. If a $UO_2(NO_3)_2$ solution is poured into an alkaline solution, orange-colored and partially hydrolysed mono-uranates (Sr) or di-uranates (Ca, Ba) are formed. If the alkali is added to a $UO_2(NO_3)_2$ solution the precipitates are yellow and the more acid uranates are formed. The method of precipitating U in the form of the Ca uranate was checked by the action of the alkali in the presence of $CaCl_2$. Using radioactive isotopes Ca^{45} and Na^{24} it was found that if NaOH was introduced into the reaction mixture the Ca uranate is formed, the Na^+ ions being only absorbed by the precipitate. In the presence of $CaCl_2$ the uranium is precipitated more easily. [Abstractor's note: Complete translation.]

Card 2/2

ARUTYUNYAN, Yuriy Vartanovich; DANILOV, V.P., otv.red.; KIND, T.B.,
red.izd-va; DOROKHINA, I.N., tekhn.red.

[Operators of agricultural machinery in the U.S.S.R. from 1929 to
1957; training personnel with broad qualifications] Mekhaniza-
tory sel'skogo khoziaistva SSSR v 1929-1957 gg; formirovanie kadrov
massovykh kvalifikatsii. Moskva, Izd-vo Akad.nauk SSSR, 1960.
339 p. (MIRA 13:3)

(Farm mechanization)

BORISOV, Yuriy Stepanovich; DAHILOV, V.P., otv.red.; KIND, T.B., red.
izd-va; VOLKOVA, V.V., tekhn.red.

[Preparation of Soviet agricultural specialists in the
reconstruction period] Podgotovka proizvodstvennykh kadrov
sel'skogo khoziaistva SSSR v rekonstruktivnyi period. Moskva,
Izd-vo Akad.nauk SSSR, 1960. 286 p. (MIRA 14:2)
(Agriculture, Cooperative) (Agricultural education)

KIM, M.P., glav. red.; ARUTYUNYAN, Yu.V., red.; GUSEV, K.V., red.;
DANILOV, V.P., red. p SHARAPOV, G.V., red.; IVANOVA, R.S.,
red.; KACHURINA, A.V., red.; RATNER, V.I., red.; NAUMOV,
K.M., tekhn. red.

[Alliance between the working class and peasantry at the
present-day stage] Soiuz rabocheho klassa i krest'ianstva
na sovremennom etape. Moskva, Izd-vo VPSH i AON, 1962.
358 p. (MIRA 15:9)

1. Moscow. Akademiya obshchestvennykh nauk.
(Agricultural policy)

TKACHENKO, N.N.; CHIZHOV, S.T.; MESHCHEROV, E.T.; TKACHEV, R.Ya.;
DANILOV, V.P.; KURZINA, I.A., red.; PROKOP'YEVA, L.M.,
tekh. red.

[Cucumbers] Ogurtsy. [B]N.N.Tkachenko i dr. Moskva, Sel'-
khozizdat, 1963. 205 p. (MIRA 16:5)
(Cucumbers)

DANILOV, Viktor Petrovich; KIM, M.P., d-r istoricheskikh nauk, otvetstvennyy red.; IVNITSKIY, N.A., red. izd-va; KASHINA, P.S., tekhn.red.; NOVICHKOVA, I.D., tekhn.red.

[Creating the material and technical basis for collective farming in the U.S.S.R.] Sozdanie material'no-tekhnicheskikh predposylok kollektivizatsii sel'skogo khoziaistva v SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1957. 451 p. (MIRA 11:1)
(Collective farms)

3/151 02/004/005/045/055
3159/3102

AUTHORS: Deryuzin, I. A., Danilov, V. N., and Danilov, V. V.
TITLES: Visualization of dislocations in hexagonal ferrite single crystals

ISSUE INFO: Fizika tverdogo tela, v. 4, no. 5, 1962, 1304-06

ABSTRACT: The effect of impurities on ferromagnetic resonance in ferrite single crystals of garnet structure has already been investigated by G. Giffon and J. Nielson (Phys. Rev. Lett. 3, 3, 100, and 120, 105, 1960), but fewer data are available for the effect of crystal lattice defects, as there is no suitable method of visualizing these. The present authors investigated the (100) faces of $\text{PbFe}_{12}\text{O}_{19}$ and Fe_2O_3 single crystals, grown from an emulsification of ferrite-forming components in FeO . Specimens of about 10 nm size were washed in $\text{Ca}(\text{OH})_2$ and then etched in 10% hydrofluoric acid for 40 hrs. An MWM-6 (MIM-6) metallographic microscope of 2000-fold magnification was used for observation and photographing. The etch pits on the micrograph of the Fe_2O_3 crystal

↓

Visualisation of dislocations ... 0,101, 0,0 0,010 0,05,010
1150, 3100

The hexagonal shape and randomly distributed over the whole area of the specimen. Also, also shows hexagonal etch pits, but often these are along grain boundaries. The hexagonal shape of the etch pits indicates that they are positioned where "pure" dislocations (without impurities) emerge at the surface. For cubic crystals (ferromagnetic spinel and yttrium garnet) no suitable corrosive to visualize dislocations has hitherto been discovered. There are 3 figures.

Author: Kirevskiy gosudarstvennyy universitet im. T. G. Shevchenko
(Kiev State University imeni T. G. Shevchenko)

Date: January 23, 1962

part 1, 2

NEDESHEVA, Lyudmila Pavlovna; DANILOV, V.V., red.; SHURYGINA, A.I.,
red. izd-va; ROMANOVA, V.V., tekhn. red.

[Tables for calculating distances measured with DNT, DNT-2,
and DNB-2 range finding attachments] Tablitsy dlia vychisle-
niia rasstoianii, izmerennykh dal'nomernymi nasadkami DNT,
DNT-2 i DNB-2. Moskva, Gosgeoltekhizdat, 1962. 57 p.
(MIRA 16:5)

(Distances--Measurement)

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1. DANIEL, V. V.

Effect of crystal defects on the width of the resonance line in ferrites. Fiz. tverd. tel. 1965, 7(1):1-3, 10 figs. (Engl. transl. in Radiotekhnika i Elektronika, 1965, 10(1):1-3, 10 figs.)

1. Fiz. tverd. tel. 1965, 7(1):1-3, 10 figs. (Engl. transl. in Radiotekhnika i Elektronika, 1965, 10(1):1-3, 10 figs.)

DANILOV, V. V. and KRADOVNIY, F. N.

"Handbook on Higher Geodesy", Part I, Nos. 1/2, 8., 1952-53,

DANILOV, V.V., KRASOVSKIY, F.N., and CHEBOTAREV, A.S.

Course in Higher Geodesy, Parts I and II. Geodezizdat, Moscow (1938-1939)

1. BELOUSEV, V. V., DANILOV, V. V., authors

2. USSR (600)

"Proceedings of the Conference on Methods of Study of Movements and Deformations of the Earth's Crust. Moscow 1961. Edited by professor V. V. Belousev and V. V. Danilov. Geological Press, Moscow, 1961. 263 pages with illustrations. (Academy of Sciences USSR, Geophysical Institute SSGI).

3. Meteorologiya i Gidrologiya, No. 3, 1961.
Report #2551. 30 Oct 62

DANILOV, V. V.

Danilov, V. V. - "Fedotsoy Nikolayevich Krasovskiy", (The Republic Engineer, 17-1923), Sbornik nauch.-tehn. i priklad. statey po teorii, karte raii, topografii, aerofotyyenke i travimetrii, Issue 2, 1977, p. 19-20, - Title: "A list of published works of Professor Doctor N. N. Krasovskiy", 13 items.

#: 1-1114, 17 July 78, (Letovis zhurnal 'nykh' statey, No. 17, 1977).

DANILOV, V. V.

Danilov, V. V. - "Errors in transcription of genetic information in stages of linear polymeric processes", *Sbornik nauch.-tekh. i priklad. statej na teorii, kibernetiki, tonografii, aereflynye i upravlenii, Izvestiya*, 1971, no. 77-78.

no: 1-4110, 17 July 71, (But this is incorrect in the States, No. 14, 1971).

DAMIAN, ...

1003 DAMIAN, M. A. (Cyrillic: Дамьян, М. А.)
provodil'nykh v todyashniy ...
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original and is a copy of the article in the journal "Earthquake in
the Kanto district, Japan," September 1, 1906. Original in
no 12, (1908): 71. 1906.

DANILOV, V.V.

[Precise polygonometry] *Tochnaia poligonometriia*. 2.ispr.izd. M.,
Geodezizdat, 1953. 230 p. (MLRA 8:5)
(Geodesy) (Polygons)

DANILOV, V.V.

Chelyabinsk mines in 1919-1921. Ugol' 33 no.8:46-48 Ag '58.
(MIRA 12:1)
(Chelyabinsk Province--Coal mines and mining)

BINDEMAN, N.N.; DANILOV, V.V.

Calculating the yield of linear intakes of underground waters. Vod.
i san. tekhn. no.1:9-11 Ja '61. (MIRA 14:9)
(Water-supply engineering)

EULANOV, Aleksandr Ivanovich; DANILOV, Vladimir Vladimirovich; ZAKATOV,
Petr Sergeevich; YERMOLOV, Boris Pavlovich[deceased];
PAVLOV, Vitaliy Fedorovich; TROITSKIY, Boris Vladimirovich;
SLOBODCHIKOVA, D.A., red.; VASIL'YEVA, V.I., red. izd-va;
ROMANOVA, V.V., tekhn. red.

[Geodesy] Geodeziia. [By] A.I. Bulanov i dr. Pod obshchei red.
D.A. Slobodchikova. Moskva, Izd-vo geodez. lit-ry. Pt.1. 1962
315 p. (MIRA 16:1)

(Geodesy)

KOCHEPUSHIN, S.M., VYASELEVA, G.Ya.; *Uchebnye zadaniya i kurcheniya*.
Dokl. Akad. Nauk, 1964, no. 1, p. 111, 112.

[Electrodeposition of metals in ultrasonic field.
Elektrosazhdenie metallov v ultrazvukovom pole. *Uchebnye zadaniya i kurcheniya*,
skva, Vysshaya shkola, 1964, no. 1, p. 111, 112. (USSR 1964)]

DANILOV, V.V.

Universal attachment. Mashinostroitel' no. 8:24 Ag 164.

(MIRA 17:10)

DANILOV, V.V.

Device for checking the parallelism of planes. Mashinostroitel'
no.12:14 D '64. (MIRA 18:2)

L 32677-66

ACC NR: AT6013442 (N., A)

SOURCE CODE: UR/0000/65/000/000/0075/0081

AUTHORS: Levchenko, B. A.; Danilov, V. V.; Shekhovtsov, A. F.; Petikov, N. F.

ORG: Khar'kov Polytechnic Institute (Khar'khovskiy politekhnicheskiy institut)

TITLE: Effect of the water flow character in a cooling system of a tractor engine block on the temperature field of its lower plate

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines), no. 1, Kharkov, Izd-vo Khar'k. univ., 1965, 75-81

TOPIC TAGS: diesel engine, thermodynamics, cooling system, engine cooling/ SMD-7 engine, SMD-14 engine

ABSTRACT: A transparent model of the block and cylinder head of an SMD engine was created for the purpose of establishing the nature of the flow of water in the cooling system. The head parts and water jacket of the engine were designed to be separable. This permitted the study of the effect of the construction of elements of the water jacket on the thermal condition of the block. A combined method of visual and photographic observations was used in studying the nature of the water flow. Thermometric instrumentation and methods were those of B. A. Levchenko (Temperaturnoye sostoyaniye golovki dvigatelya SMD-7. Trudy KhPI, t. 40, vyp. 2, Izd-vo KhGU, 1962). System loads were defined in terms of the water circulation cycling rate. Test

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L 32677-66

ACC NR: AT6013442

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measurements included the variation of the thermal state of the engine block and cylinder head with the system load, temperature drop along the perimeter of the valve seats, as well as the block temperature variation as a function of the efficiency of the water pump. Three diesel engines, the SMD-7 test model, an SMD-7 production model, and an SMD-14 model, are compared in a relatively wide operating range. Certain recommendations for improving cooling system effectiveness are included. Orig. art. has: 5 figures, 1 table, and 2 equations.

SUB CODE: 21/

SUBM DATE: 20Apr65/

ORIG REF: 001

Card 2/2 *PLG*

L 35208-65 EWT(1)/EPA(s)-2/EEC(t)/EEC(h)-2 Pt-10/Pt-4 IJP(c) GG
ACCESSION NR: AP5007104 S/O109/65/010/003/0558/0559

35
B

AUTHOR: Deryugin, I. A.; Danilov, V. V.

TITLE: Induction method of recording the ferromagnetic resonance absorption

SOURCE: Radiotekhnika i elektronika, v. 10, no. 3, 1965, 558-559

TOPIC TAGS: ferromagnetic resonance

ABSTRACT: The induction method recently introduced for measuring the width of the ferromagnetic-resonance-absorption line (J. I. Masters, et al., IRE Trans., 1960, MTT-8, 5, 565) may also be employed for obtaining the entire curve of ferromagnetic resonance absorption. By recording the power of the signal induced in the receiving loop as a function of the external magnetic field, the curve $\chi''(H)$ can be obtained. An improved measurement hookup is illustrated. Orig. art. has: 1 figure and 5 formulas.

ASSOCIATION: none

SUBMITTED: 23Mar64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 001

Card 1/1 JD

L 1414-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD/ww/CG
ACC NR: AP6000859 SOURCE CODE: UR/0181/65/007/012/3588/3590

AUTHORS: Deryugin, I. A.; Danilov, V. V. 41

ORG: Kiev State University im. T. G. Shevchenko (Kiyevskiy gosudarstvenny universitet)

TITLE: Influence of crystal defects on the line width of ferromagnetic resonance in ferrites 18

SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3588-3590

TOPIC TAGS: crystal defect, ferromagnetic resonance, ferrite, line width, surface, property

ABSTRACT: The purpose of the investigation was to check on the hypothesis that mechanical finishing of crystals (grinding and polishing) leads to noticeable deformation of the near-surface layer, to the depth of 10 μ and more, so that the contribution made to the ferromagnetic resonance line width ΔH due to surface inhomogeneities is brought about not only by the roughness of the finish, but also by defects in the distorted surface layer. To check on this hypothesis

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L 11114-66

ACC NR: AP6000859

the authors investigated the line widths of ferromagnetic resonance of spherical samples of yttrium iron garnet with different degrees of surface finish, before and after annealing at 800C for one hour. The measurements were made in the 3 cm band at room temperature on samples 0.4 -- 0.6 mm in diameter. The results showed that ΔH is determined not only by the geometry of the surface roughness but also by defects under the surface. Annealing decreases the line width of polishing samples by 15 -- 20 per cent. The anisotropy of ΔH for coarsely finished samples is determined by the contribution of the disoriented fragments on the surface of the sample. Defects produced as a result of grinding do not exert a decisive influence on the anisotropy of ΔH . ΔH increased in samples annealed after grinding. The decrease in the line width observed after annealing of polished samples shows that the structure of the surface layer, which was weakly deformed during the polishing process, has improved. Orig. art. has: 3 figures and 1 formula.

SUB CODE: 20// SUBM DATE: 06May65// ORIG REF: 005// OTH REF: 001

Card

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2/2

L 34098-66 EWT(m)/ENP(w)/I/EWP(t)/ETI IJP(c) JD/JG/CD

ACC NR: AT6013831

SOURCE CODE: UR/0000/65/000/000/0065/0069

AUTHOR: Deryugin, I. A.; Danilov, V. V.54
B+1ORG: Kiev State University im. T. G. Shevchenko (Kiyevskiy gosudarstvennyy universitet)TITLE: Ferromagnetic resonance study of defects arising in ferrite single crystals during mechanical and thermal treatments

SOURCE: AN UkrSSR. Issledovaniye nesovershenstv kristallicheskogo stroyeniya (Study of imperfections in crystal structure). Kiev, Naukova dumka 1965, 65-69

TOPIC TAGS: ferrite, ferromagnetic resonance, grinding, metal polishing, ANNEALING, METAL SURFACE, CRYSTAL DEFECT

ABSTRACT: A ferromagnetic resonance study of ²¹yttrium ferrite/garnet spheres (0.4-0.6 mm in diameter) subjected to grinding, polishing, and annealing showed that in specimens treated with abrasives having a grain size of 60 and 40 μ the thickness of the distorted surface layer is increased by annealing. This result agrees with data obtained by other methods both for ionic crystals and metals. In polished specimens (abrasive with grain size less than 14 μ), the thickness of the distorted surface layer decreases as a result of annealing. Thus, defects of the surface layer are thermally less stable during polishing than during grinding. Repeated quenching causes an increase in ΔH (line width of ferromagnetic resonance absorption), due to the development of fatigue cracks on the surface of the specimens. This effect

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L 34098-66

ACC NR: AT6013831

is most manifest in coarsely finished spheres at high quenching temperatures. Orig. art.
has: 2 figures and 2 formulas.

SUB CODE: 11 / SUBM DATE: 21Nov64 / ORIG REF: 005 / OTH REF: 002

Card 2/2 vmb

101/00/000/000/000/1011/1011
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Dmitriyev, I. A.; Danilov, V. V.

101/00/000/000/000/1011/1011

Effect of crystal defect on the width of the ferrimagnetic resonance line in yttrium garnet, All-Union Conference on the Physics of Ferro- and Antiferromagnetism held 2-7 July 1966 in Sverdlovsk

Sov. Phys. Usp. Seriya fizicheskaya, v. 30, no. 6, 1966, 1011

Keywords: Ferrimagnetic resonance, line widths, single crystal, yttrium compound, ferrite, garnet, anisotropy, crystal lattice defect

ABSTRACT: Spherical single crystal specimens of yttrium iron garnet were annealed and then quenched from 700° C in water. This treatment had no effect on the width of the ferrimagnetic resonance (FMR). From this it is concluded that point defects (vacancies and interstitial atoms) do not contribute significantly to the width of the FMR line. Samples of the same material were annealed at 700° and ground with 40 to 60 micron abrasive grains. This treatment increased the width of the FMR line. This is ascribed to increase in the depth of the distorted surface layer. Polishing the ground samples and annealing then reduced the width of the FMR line by 10-15 %. This is ascribed to reduction of the density of dislocations in the deformed surface

I. 08755-67

ACC NR: AP0029122

Although reduction of the dislocation density reduced the width of the FMR line, it did not alter the form of the dependence of the line width on the sample orientation, i.e., the anisotropy of the FMR line width. Experimental curves (not shown) giving the width of the FMR line as a function of the orientation angle of polished single crystal yttrium iron garnet samples were similar in shape to the curves giving the derivative of the resonance field with respect to the orientation angle of the corresponding samples. From this it is concluded that the anisotropy of the FMR line width in these samples is due to separation of the surface layer into differently oriented blocks by a network of dislocations. ✓

JOB CODE: 20/

SUBM DATE: 00/

ORIG REF: 002/

OTH REF: 001

C. 2/2

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ACC NR: AR7004308

SOURCE CODE: UR/0271/66/000/011/A037/A037

AUTHOR: Yerosh, I. L.; Danilov, V. V.

TITLE: Modulo check used for detecting and correcting design failures in counters

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 11A290

REF SOURCE: Izv. Leningr. elektrotekhn. in-ta, ch. 2, vyp. 56, 1966, 94-98

TOPIC TAGS: signal ^{coding} ~~detecting code~~, ~~signal correcting code~~, ~~counter check~~ trigger circuit, ~~electronic feedback~~, ferrite, coding, circuit failure

ABSTRACT: Various elements that have specific type of failures have been used for counters: triggers, feedback trigger groups, ring ferrite-triode and ferrite-diode circuits, and storage units. Triggers are mostly characterized by zero-type failures (no output signal) and one-type failures (the trigger operates as an amplifier relaying its input signal to its output); the feedback triggers are characterized by one-type failures which change the group scaling factor. Feedback breaks are also possible. For detecting and correcting such failures, codes are proposed which structurally resemble the arithmetic codes used in computer checking operations. Two figures. B. U. [Translation of abstract]

SUB CODE: 09

Card 1/1

UDC: 621.374.32

DANILOV, V.V.

Evaluation of the proved resources of underground waters. Izv.
vys. ucheb. zav.; geol. i razv. 7 no.7:93-99 J1 '64
(MIRA 18:2)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.

MILLER, A.D.; DANILOV, V.Ya.

Salt dissemination halos of rare-metal pegmatites on Kola Peninsula
[with summary in English]. Geokhimiya AN SSSR no.6:529-537 '57.
(MIRA 11:2)

1. Zapadnyy geofizicheskiy trest.
(Rare earth metals) (Kola Peninsula)

DANILOV, V. Ye., Lt Col

12 21 48

USSR/Medicine - Aviation and Aviators Sep 48
Medicine - Blood, Oxygen Consumption

"Acute Vascular Deficiencies in Flight Personnel
and Methods for Diagnosing This Condition," Lt Col
V. Ye. Danilov, Med Corps, TsNIAG, 4 pp

"Klin Med" Vol XXVI, No 9

Presents results of observations on flying personnel.
Tendency to early hypoxemic collapse can be detected
by barochamber or V-shaped manometer tests.

31/49T16

*TsNIAG - Central Institute of Aviation Medicine
Acute hypoxemia*

DANILOV, V. Ye. Col. of Med. Service, Cand. Med. Sci.

"Acute Vascular Depression Among the Flying Personnel and Its Evaluation from the Medical Examination Viewpoint," Voenno-meditsinskiy zhurnal, No.7, pp. 28-33, 1955.

Translation D 493094

DANILOV, V.Ye., polkovnik meditsinskoy sluzhby; KAVYRSHIN, A.Ya., podpolkovnik meditsinskoy sluzhby; BARANOV, V.T., podpolkovnik meditsinskoy sluzhby

Effect of the KP-14 oxygen apparatus on the ability of fliers with cardiovascular diseases to remain in a pressure chamber. Voen.-med. zhur. no.7:82 J1 '57. (MIRA 11:1)

(CARDIOVASCULAR SYSTEM--DISEASES)
(ALTITUDE, INFLUENCE OF)

1001

1002

1003

1004

1005

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DANILOV, V.Ye., kand.med.nauk, polkovnik meditsinskoy sluzhby

Use of a probe with a U-shape manometer in examining flying personnel.
Voen.-med.zhur. no.9:83 S '59. (MIRA 13:1)

(RUSSIA--AIR FORCE--MEDICAL EXAMINATIONS)