SVETLOV, M.

Light reflecting navigation beacons. Rech. transp. 22 no.3:36-37 Mr '63. (MIRA 16:4)

1. Nachal'nik laboratorii sudokhodnoy obstanovki TSentral'nogo nauchno-issledovatel'skogo instituta ekonomiki i ekspluatasii vodnogo transporta. (Beacons)

SVETLOV M.F.

YARUSTOVSKIY, A.A.; SVETLOV, M.F.; LIKIN, V.V., redaktor; BALAKIREV, V.F., redaktor; FRANK, S.I., vedushchiy redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor.

[Operation of mechanical and electrical sluice gate equipment] Ekspluatatsiia mekhanicheskogo i elektricheskogo oborudovaniia shliuzov. Moskva, Izd-vo Ministerstva rechnogo flota SSSR, 1952. 210 p. [Microfilm] (MLRA 7:11)

(Sluice gates)

ZHDANOV, Vladimir Sergeyevich; KUSKOV, Lev Sergeyevich; LAVRINOVICH, Lev Petrovich; MEZHNEV, Dmitriy Ivanovich; POROCHKIN, Yevgeniy Makarovich; RUMYANTSEV, Aleksandr Mikhaylovich; SVETLOV, Mikhail Fedorovich; YARUSTOVSKIY, Andrey Aleksandrovich; RZHANITSYN, N.A., Kandidat tekhnicheskikh nauk, redaktor; VINOGRADOVA, N.M., redaktor izdatel'stva; SALAZKOV, N.P., tekhnicheskiy redaktor

[Operation of hydraulic engineering installations] Ekspluatatsiia gidrotekhnicheskikh sooruzhenii. Pod red. N.A.Rzhanitsyna. Moskva, Izd-vo "Rechnoi transport," 1956. 406 p. (MLRA 10:2)
(Hydraulic engineering)

SOV/91-59-8-17/28

9(2), 25(5)

AUTHOR: Svetlov, M.F., Electrician

TITLE: Photoswitches for External Illumination Control

PERIODICAL: Energetik, 1959, Nr 8, pp 25-26 (USSR)

ABSTRACT: Two photoswitch circuit diagrams are recommended for external illumination control. The Soviet industry does not produce many types of photoswitches for external illumination control. Self-made photoswitches have a number of deficiencies: improper timing of switching operation, vibration of relay contacts near the threshold of relay operation, etc. In most cases the selection of the proper relays is neglected. The photoswitch circuits recommended by the author are free of these disadvantages. The photoswitch, shown in fig.1, is composed of a photoelement FS-K1 or FS-K2, a 1-megohm variable resistor, tube 6P3, receiver relay EN-79/60 and output relay MKU-48. The photoswitch shown in fig.2, consists basically of the same parts as the one shown in fig.1, with exception of the receiver relay, since here relay EN-77/200 is used. A 10 voltampere 220/5.7-6v filament transformer is used in both

Card 1/2

Photoswitches for External Illumination Control

circuits. A note from the editor says that a magnetic amplifier or a transistor may be used as amplifier instead of the vacuum tube 6Ж3. There are 2 circuit diagrams and 1 diagram.

ZHDANOV, Vladimir Sergeyevich; KUSKOV, Lev Sergeyevich; LAVRINOVICH, Lev Petrovich; NEZHNEV, Dmitriy Ivanovich; POROCHKIN, Yevgeniy Makarovich; RUMYANTSEV, Aleksandr Mikhaylovich; SVETLOV, Mikhail Fedorovich; YARUSTOVSKIY, Andrey Aleksandrovich; LAGAR'KOV, N.I., red.; PEREKHVAL'SKIY, V.S., retsenzent; FEDYAYEVA, N.A., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Operation of hydraulic structures] Ekspluatatsiia gidrotekhnicheskikh sooruzhenii. Izd.2. By V.S.Zhdanov i dr. Moskva, Izd-vo "Rechnoi transport," 1961. 289 p. (MIRA 15:2)
(Hydraulic structures)

SVETLOV, N.

USSR/ Electronics - Oscillators

Card : 1/1

Authors : Svetlov, N., Leningrad

Title : Design and Calculation of a Single-tube RC-Type Oscillator

Periodical : Radio No. 4, 43 - 45, April 1954

Abstract : An analysis of the operation of single-tube RC-oscillators is given and the use of oscillators of this type is discussed. It also gives an example of computation of the oscillator's basic parameters: resistance, capacitance, time constant, and phase angle. Four diagrams, (including two circuit diagrams), are shown.

Institution : ....

Submitted : ....

Category : USSR/Radiophysics - Radio-wave reception I-7

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1928

Author : Kharinskiy, A.L., Svetlov, N.I.
Title : Method of Retaining a Unified Tuning Characteristic in Tuned Circuits Operating with Different Coverage Coefficients

Orig Pub : Radiotekhnika, 1956, 11., No 6, 50-57

Abstract : Examination of the possibilities of retaining a unified tuning characteristic in tuned networks operating with various coverages of the frequency range (a single variable capacitor is used for tuning), and also the coupling of such circuits with the heterodyne circuit in superheterodyne receivers. It is proposed to solve this problem with the aid of an "auxiliary tuned circuit," where fixed capacitors, the size of which is obtained by computation, are added to the operating tuned circuit.

Card : 1/1

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1596
AUTHOR SVETLOV, N.I.
TITLE The Selection of Intermediate Frequencies in a Searching Radio Receiver.
PERIODICAL Radiotechnika, 11, fasc.10, 47-65 (1956)
Issued: 11 / 1956

This type of receiver belongs to the group of direction finder and control receivers which at present are being constructed on the heterodyne principle with double frequency transformation. Among the various special problems arising in connection with the computation and calculation of such a receiver only that of intermediate frequencies will be dealt with here. At first the selection of the second intermediate frequency is studied. Two tables are attached showing the critical values of f_{zw2} (second intermediate frequency) in dependence on the coefficients α and β of the combined oscillation $\alpha f_{h2} - \beta f_{zw1} = f_{zw2}$. α and β denote the harmonics of the heterodyne. From these tables it may be concluded that 1.) the combination frequencies of the form $nf_{h2} - nf_{zw1} = f_{zw2}$ are independent of the relation of the intermediate frequencies $A = \frac{f_{zw1min}}{f_{zw2}}$ and depend only on the stripe of vision Π. All other combination frequencies depend both on A and on Π. The second table shows such frequencies as are the most dangerous. Next, the selection of the

SVETLOV, N. I.

6(7);9(3) P. 5 PHASE I BOOK EXPLOITATION SOV/2666

USSR. Ministerstvo svyazi. Tekhnicheskoye upravleniye

Elektronnaya fototelegrafiya; informatsionnyy sbornik (Electronic Facsimile Systems; Information Handbook) Moscow, Svyaz'izdat, 1958. 132 p. (Series: Tekhnika svyazi) 9,000 copies printed.

Resp. Ed.: B. Z. Kisel'gof; Ed.: L. S. Salitan; Tech. Ed.: K. G. Markoch.

PURPOSE: This collection of articles is intended for specialists in facsimile systems.

COVERAGE: This collection summarizes information on Soviet and non-Soviet developments in electronic facsimile systems and equipment. Results of investigations in this field at the laboratory of the NIITS (Scientific Research Institute of City and Rural Telephone Service) are presented. These investigations were connected with a project for the adaptation of regular telephone channels, wideband channels and direct communication links for facsimile transmission in place of the previously used special facsimile transmission channels.

Card 1/ 7

Electronic Facsimile Systems (Cont.)

Soviet accomplishments since 1950. The following mentioned institutions have made contributions in research on electronic scanning: The Leningrad Electrical Engineering Institute of Communications under the direction of P.V. Shmakov, the Leningrad branch of NIITS, the Odessa Electrical Engineering Institute and the Scientific Research Institute of the Ministry of Communications. There are 27 references: 17 Soviet, 7 English and 3 German.

Yurchenko, V. P. The Resolving Power of a Facsimile System With Electronic Scanning 47

The author presents details of investigations on the resolving power of cathode-ray tubes . . taking into consideration a required increase in brightness intensity necessary in documentary reproduction of images. Similar data, according to the editors, have been published for the first time and may be of considerable interest to specialists for facsimile, television

experimental results with analytical investigation and presents results in two tables and 4 diagrams. There are 4 Soviet references.

Svetlov, N. I. Methods of Elimination of Perpendicular Streaks in the Half-tone Image Received With the Electronic Single-Scan Line Method 83

The author discusses methods for the elimination of parasitic perpendicular streaks appearing in the half-tone image of the electronic facsimile system. These streaks are caused by the irregular luminescence of the luminophor along the scanning trace, resulting from nonuniformity of the structure or composition of the luminophor and also from defects in the glass of the tube screen. Since the technology of producing luminophores has not been perfected, the author looks for methods for eliminating the parasitic streaks. Among the electromechanical methods, he describes the "Scanning device" submitted by him in 1954, the method of rotating the cathode-ray tube, submitted in 1954 by P. A. Yunakov and the electronic-mechanical vertical sweep method,

The authors describe the newly developed technique of electro-photography, which combines principles of regular photography with the properties of some semiconductor photocells. They note

SOV/108-13-12-7/12

6(4), 7(7)
AUTHOR: Svetlov, N. I., Member of the Association

TITLE: Calculation of the Nonlinear Distortions and the Range of a Panoramic Radio Receiver (Raschet nelineynykh iskazheniy i dinamicheskogo diapazona panoramnogo radiopriyemnika)

PERIODICAL: Radiotekhnika, 1958, Vol 13, Nr 12, pp 53-63 (USSR)

ABSTRACT: The cross distortions in the wide-band zone of the panoramic radio receiver are investigated. At first, the nonlinear distortions in the presence of two strong signals within the frequency band are investigated. The distortions expressed by the formulae (4) to (11) are shown to be the most dangerous for the panoramic radio reception. They are designated as being special cross distortions. The most radical means of fighting this type of interferences is to apply automatic retuning filters of high selectivity in the wide-band zone. Balancing networks used as frequency transformers do not represent an effective means for fighting the nonlinear distortions because a balancing transformer does not reduce the special cross distortions. The nonlinear distortions in the presence of signals in the frequency band are then investigated. The formula (23) is derived

Card 1/2

Calculation of the Nonlinear Distortions and the Range of a Panoramic Radio Receiver

for the highest admissible amplitude of the voltage of each signal on the lattice. The range of modulation of the panoramic radio receiver is investigated and the formula (25) for the determination of the range of modulation of the single steps in the wide-band zone and of the receiver unit is derived. From (25) follows that, for increasing the modulation range of the receiver, the total number of stages of the wide-band zone and their amplification factors must be limited. The main amplification of the signals is to be accomplished in the narrow-band zone. At equal signal amplitudes at the input the modulation range to be adhered to by the panoramic receiver must not be lower than 60 db. There are 7 figures, 1 table, and 5 references, 4 of which are Soviet.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (The Scientific-technical Association for Radio Engineering and Electrical Communications im. A.S. Popov)

SUBMITTED: May 10, 1956 (initially) and July 15, 1957 (after revision)

S/108/60/015/05/04/008
B007/B014

AUTHOR: Svetlov, N. I., Member of the Society

TITLE: On the Problem of the Efficiency of the Methods of Extending the Dynamic Range of a Panoramic Receiver

PERIODICAL: Radiotekhnika, 1960, Vol. 15, No. 5, pp. 29-32

TEXT: The dynamic range of a panoramic receiver is mainly determined by crosstalk produced by the cascades of the broadband channel (Ref. 3). In order to extend the dynamic range, it is necessary to have a minimum crosstalk. The following methods are given for increasing this crosstalk: 1) use of a negative feedback in the cascades of the broadband channel; 2) use of automatically tuned filters; 3) the combined method in which the negative feedback and the automatically tuned filters are used in one and the same cascade. The efficiency of this method is determined on the following assumption: The determination is only applied to one cascade of the broadband channel of the receiver. The cascades contain tubes of the same type with the parameters s, μ, and R_i. In this case, the

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On the Problem of the Efficiency of the Methods of Extending the Dynamic Range of a Panoramic Receiver

S/108/60/015/05/04/008
B007/B014

frequency band of the panoramic receiver is equal to Π kc/sec. First, the author investigates the case in which the negative feedback is applied. Then, he examines an automatically tuned filter as a plate load with and without feedback. Formulas (12) and/or (6) and (8) are derived for the two cases. These formulas always yield the required relations. The curves shown in the accompanying figure are determined from these formulas. These curves indicate that good results are obtained with the aid of a feedback when small frequency bands of about 20 ÷ 50 kc/sec are available. However, they are not characteristic of the panoramic receiver. At 100 kc/sec and more, one obtains better results with the use of automatically tuned filters. The highest efficiency is achieved if both methods are combined. This requires, however, a careful regulation. Experiments carried out at the Leningradskiy radiopriyemnyy tsentr Ministerstva svyazi (Leningrad Radio Reception Center of the

Card 2/3

SVETLOV, Nikolay Ivanovich; ROGINSKIY, V.Yu., red.; ZHITNIKOVA, O.S., tekhn. red.

[High-voltage sources of high frequency and low power] Malomoshchnye vysokochastotnye istochniki vysokogo napriazheniia. Moskva, Gosenergoizdat, 1962. 125 p. (MIRA 15:7)
(Oscillators, Electron-tube)
(Electric power supply to apparatus)

SVETLOV, PROF. P. G.

"The Question Of The Initiation And Differentiation Of Cartelegeneous Tissues In Avian Embryos. Laboratory Of Experimental Embriology (Chief: Prof. P. G. Svetlov), Kazan Medical Institute." (p. 311) by Blinov, V. A.

SO: PREDECESSOR OF JOURNAL OF GENERAL BIOLOGY. (Biologicheskii Zhurnal) Vol. VII, 1938 No. 2

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

A-4

Difference in resistance to cold and other [illegible] in males and females of *Drosophila melanogaster*. P. G. Svetlov. (*Compt. rend. Acad. Sci. U.R.S.S.*, 1941, [illegible]).—Females were more resistant than males to starvation, a temp. of 4—7°, and to ether, alcohol, and formalin vapour.

F. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

AUTHOR INDEX

1ST AND 2ND ORDERS — 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

TBC

A-4

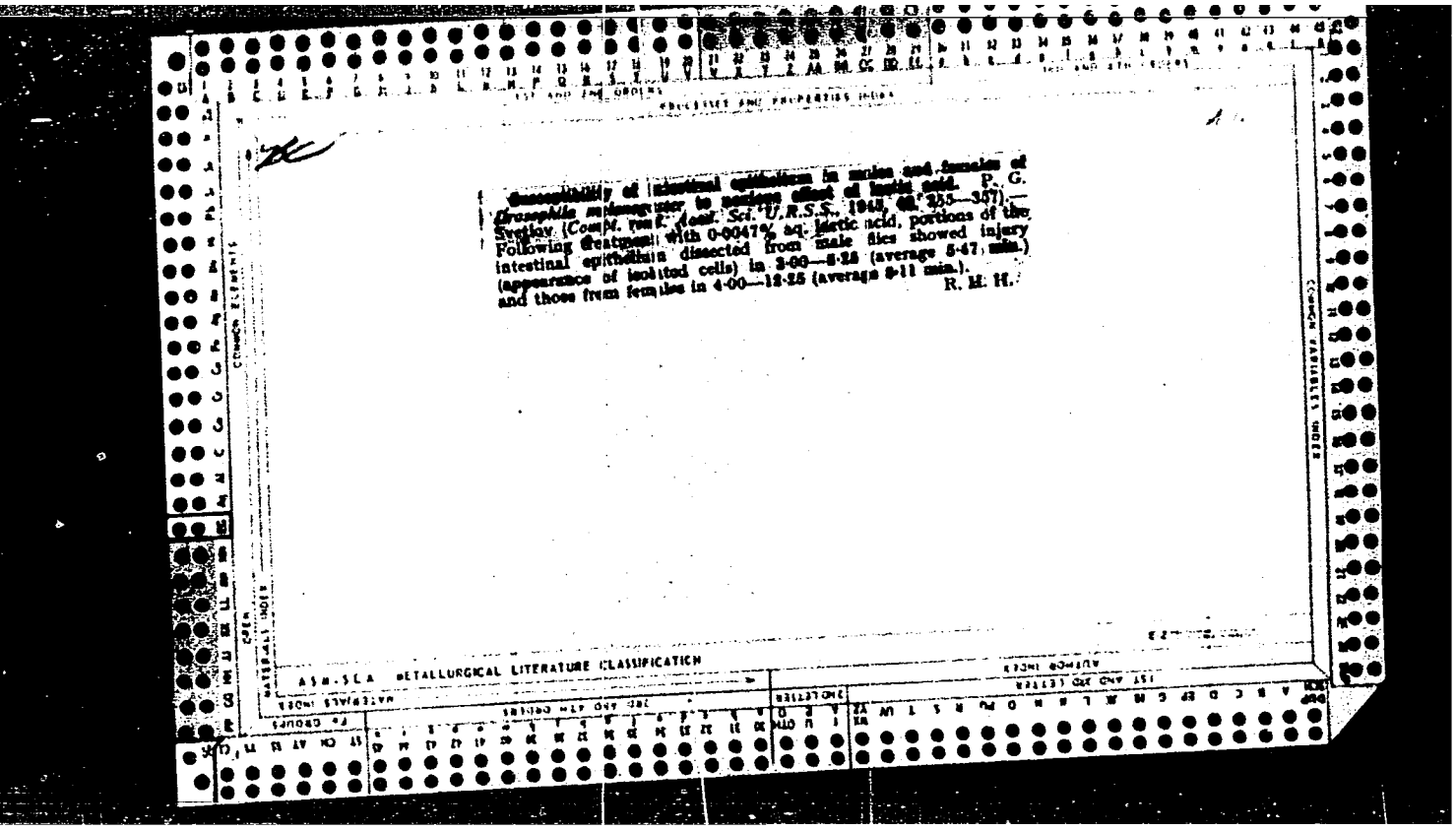
Ontogenesis of sex differences in susceptibility in *Drosophila melanogaster*. P. G. Svetlov (*Compt. rend. Acad. Sci. U.R.S.S.*, 1942, [illegible]).—The sex difference (much greater in male) in susceptibility to various injurious factors arises during ontogeny but it is not due directly to the presence of the male set of chromosomes for it is not shown by larvæ. It is not, however, confined to the imaginal instar but can be traced back to earlier ontogenetic stages. It is concluded that the increased male susceptibility is a character which develops in association with sex differentiation.

I. D. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

SVETLOV, P. G.

"Sex Differences of Imaginal Discs in Drosophila Melanogaster Larvae to Noxious Agents," Dokl. AN SSSR, 46, No.7, 1945



Susceptibility of intestinal epithelium in males and females of *Drosophila melanogaster* to mutagenic effect of lactic acid. P. G. Svetlov (Compt. rend. Acad. Sci. U.R.S.S., 1948, 60, 335—337).—Following treatment with 0·0047% aq. lactic acid, portions of the intestinal epithelium dissected from male flies showed injury (appearance of isolated cells) in 3·00—8·25 (average 5·47 min.) and those from females in 4·00—12·25 (average 9·11 min.).

R. M. H.

SVETLOV, Pavel Grigor'yevich

"Sex Differences in Resistance to Injurious Actions in Cyclopoida," Dokl. AN SSSR, 68, No.6, 1949

SVETLOV P.G.

ANDRIYASHEVA, N.M.; BAKKAL, T.P.; BEKKER, S.M.; BOGDANOV-BEREZOVSKIY, V.V.; BRAUN, A.D.; VASILEVSKAYA, N.L.; GANUSENKO, M.N.; GARMASHEVA, N.L.; DEMICHEV, I.P.; DRIZGALOVICH, S.Ye.; KALININA, N.A.; KORSAKOVA, G.F.; KRYZHANOVSKAYA, Ye.F.; MIROVICH, N.I.; PROKOKOVA, V.K.; PUGOVISHNIKOVA, M.A.; RESHETOVA, L.A.; SVETLOV, P.G.; UTEGENOVA, K.D.; KHECHINASHVILI, G.G.; SHVANG, L.I.; GARMASHEVA, N.L., professor, redaktor; RUDAKOV, A.V., redaktor; RULEVA, M.S., tekhnicheskiy redaktor.

[Reflex actions in mother-fetus interrelations] Reflektornye reaktsii vo vzàimootnosheniiakh materinskogo organizma i ploda. [Leningrad] Gos. izd-vo med. lit-ry, Leningradskoe otd-nie, 1954. 266 p.(MLRA 7:10)
(Pregnancy) (Embryology)

SVETLOV, P. G.

SVETLOV, P.G.; ZHINKIN, L.N.; ZAVARZIN, A.A.

In memory of Fedor Mikhailovich Lazarenko. Vest AMN SSSR no.2: 77-78 '54. (MLRA 7:7)
(LAZARENKO, FEDOR MIKHAILOVICH, 1888-1953)

SVETLOV, P.G., professor.

Academy edition of collected works. I.I.Mechnikov. Reviewed by P.G.Svetlov. Vest. AMN SSSR no.3:92-93 '55 (MLRA 8:11)
(EMBRYOLOGY) (MECHNIKOV, IL'IA IL'ICH, 1845-1916)

SVETLOV,P.G.; KORSAKOVA,G.F.

Blastocyst implantation in rats. Dokl. AN SSSR 103 no.3:503-506 Jl '55. (MLRA 8:11)

1. Institut akusherstva i ginekologii Akademii meditsinskikh nauk SSSR. Predstavleno akademikom N.N.Anichkovym.

(OVUM,
implantation in uterus in rats)

SVETLOV, P.G.

USSR/General Biology - Individual Development. B-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19075

Author : Svetlov, P.G.
Inst : -
Title : Characteristics of an Early Period in Mammalian Ontogenesis in the Light of General Embryological and Medical Problems.

Orig Pub : Probl. sovrem. embriologii. L., Un-t, 1956, 249-256

Abstract : After a short-time exposure of pregnant rats to 40° in a thermostat, the percentage of dead fetuses and pathological deviations from normal development are unequal, depending on the day of pregnancy when the experimental exposure was performed. There are 2 clearly expressed maxima of fetal sensitivity to overheating (the 4th and the 10-12th day of development). After pathogenic effects by narcotic substances (ether, hexenastab[?]) on pregnant rats the same 2 clearly-expressed maximum death and

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USSR/General Biology - Individual Development. B-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19075

damage periods are observed, which appear at exactly the same period of pregnancy. The effect of activity of damaging agents on fetuses of the 10-12th day of development are especially striking because of the anomalous placental development. The high damage of fetuses in reaction on pregnant rats on the 4th day after fecundation is explained by their incomplete implantation. Thus, a double-peaked curve of fetal sensitivity to damage reflects implantation and placentation, i.e. the chief characteristics of development in higher mammals by comparison with other vertebrates. For wise protection of pregnancy in humans, evidently, it is necessary to pay attention not only to the later stages of pregnancy but also to its first weeks.

Card 2/2

SVETLOV, P.G. (Leningrad, V.O., 4-ya liniya, d.5, kv.17)

Primary heteronomy of the composition of the vertebrate body [with summary in English]. Arkh.anat. gist. i embr. 34 no.2:3-22 Mr-Ap '57. (MLRA 10:10)

(BODY COMPOSITION
primary heteronomy of composition of vertebrate body, review (Rus))
(ANIMALS
same)

SVETLOV, P.G.

Gigantic earthworms (Allolobophora magnifica, sp.n.) in the northwestern Altai [with summary in English]. Zool. zhur. 36 no.2:183-186 F '57. (MLRA 10:6)

1. Zoologicheskiy institut Akademii nauk SSSR.
(Altai Territory--Earthworms)

SVETLOV, P.G.; KORSAKOVA, G.F.

Effect of disorders of innervation of the uterus on the course of implantation in rats [with summary in English]. Biul.eksp.biol. i med. 43 no.1:78-82 Ja '57. (MLRA 10:8)

1. Iz Instituta akusherstva i ginekologii AMN SSSR, Leningrad.
(UTERUS, physiology,
eff. of denerv. on implantation of embryo in rats (Rus))
(EMBRYO,
implantation, eff. of denerv. of uterus in rats (Rus))

SVETLOV, P.G., prof.

Embryology and medicine. Vest.AMN SSSR 13 no.11:23-29 '58
(MIRA 11:12)

1. Laboratoriya embiologii Instituta eksperimental'noy meditsiny AMN SSSR. Chlen-korrespondent AMN SSSR.

(EMBRYOLOGY,
role in med. (Rus))
(MEDICINE,
role of embryol. (Rus))

SVETLOV, P.G., doktor biol.nauk

Life and work of Petr Pavlovich Ivanov. Trudy Inst. ist. est. i tekh. 24:151-176 '58. (MIRA 11:8)
(Ivanov, Petr Pavlovich, 1878-1942)

KHARAUZOV, N.A., prof., glavnyy red.; MIKHAYLOV, V.P., prof., zamestitel' glavnogo red.; BIRYUKOV, D.A., prof., otv.red.; AVETIKYAN, B.G., doktor biol.nauk, red.; ANICHKOV, N.N., akademik, red.; ANICHKOV, S.V., prof., red.; ARBUZOV, S.Ya., prof., red.; VESELKIN, P.N., prof., red.; VOYNO-YASENETSKIY, M.V., prof., red.; DANILOV, I.V., kand.biol.nauk, red.; ZHABOTINSKIY, Yu.M., prof., red.; ZHINKIN, L.N., prof., red.; IL'IN, V.S., red.; IOFFE, V.I., prof., red.; KARASIK, V.M., prof., red.; KUPALOV, P.S., prof., red.; MANINA, A.A., kand.med.nauk, red.; NEYFAKH, S.A., doktor biol.nauk, red.; RIKL', A.V., prof., red.; SVETLOV, P.G., prof., red.; SMORODINTSEV, A.A., prof., red.; CHISTOVICH, G.N., doktor med.nauk, red.; BESEDIN, I.K., tekhn. red.

[Yearbook of the Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R. for 1958] Ezhegodnik za 1958 god. Leningrad, 1959. 538 p. (MIRA 14:1)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut eksperimental'noy meditsiny. 2. Chleny-korrespondenty Akademii meditsinskikh nauk SSSR (for Biryukov, Veselkin, Il'in, Ioffe, Karasik, Svetlov, Smorodintsev). 3. Deystvitel'nyye chleny Akademii meditsinskikh nauk SSSR (for Anichkov, S.V., Kupalov).

(MEDICINE, EXPERIMENTAL)

SVETLOV, P.G., prof.

Problem of hereditary and nonhereditary ontogenic disorders induced by radiation. Vest. AMN SSSR 14 no.11:29-37 '59. (MIRA 13:3)

1. Laboratoriya embriologii Instituta eksperimental'noy meditsin AMN SSSR. Chlen-korrespondent AMN SSSR.
(RADIATION INJURY)
(ABNORMALITIES etiol.)

SVETLOV, P.G.

Substitutions during the formation of germ layers. Trudy Inst. morf.zhiv. no.27:26-40 '59. (MIRA 13:2)

1. Laboratoriya embriologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.
(GERMINAL LAYERS)

SVETLOV, P.G. (Leningrad, V-53, V.O., 4-ya liniya, d.5, kv.17)

On G. N. Petrov's article "Fertilization and first stages in the cleavage of the human ovum." Arkh. anat. gist. i embr. 36 no.3: 79 Mr '59. (MIRA 12:7)
(EMBRYOLOGY, HUMAN)

POLYANSKIY, Yu.I., otv.red.; ALEKSANDROV, V.Ya., red.; GINETSINSKIY, A.G., red.; ZHUKOV, Ye.K., red.; ZHIRMUNSKIY, A.V., red.; KARASIK, V.M., red.; KIRO, M.B., red.; LOZINA-LOZINSKIY, L.K., red.; NIKOL'SKIY, N.N., red.; PARIBOK, V.P., red.; ROMANOV, S.N., red.; SVETLOV, P.G., red.; SOKOLOV, I.I., red.; TROSHIN, A.S., red.; USHAKOV, B.P., red.; SHERSTOBITOV, O.Ye., red.izd-va; PEVZNER, R.S., tekhn.red.

[Problems in cytology and general physiology] Voprosy tsitologii i obshchei fiziologii. Moskva, Izd-vo Akad.nauk SSSR, 1960. 398 p. (MIRA 14:1)

1. Akademiya nauk SSSR. Institut tsitologii. 2. Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR, Leningrad (for Ginetsinskiy). 3. Fiziologicheskiy institut im. A.A.Ukhtomskogo pri Leningradskom universitete im. A.A.Zhdanova (for Zhukov). 4. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR, Leningrad (for Karasik). 5. Institut tsitologii AN SSSR, Leningrad (for Kiro, Paribok, Sokolov). 6. Institut fiziologii im. I.P.Pavlova AN SSSR, Leningrad (for Romanov). 7. Laboratoriya embriologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad (for Svetlov). 8. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR, Leningrad (for Troshin). 9. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN SSSR, Leningrad (for Ushakov).
(CYTOLOGY) (PHYSIOLOGY)

NAVASHIN, M.S.; PARIBOK, V.P.; POLYANSKIY, Yu.I.; RUMYANTSEV, P.P.; SVETLOV, P.G.; KHEYSIN, Ye.M.

"The cell, biochemistry, physiology, morphology." Edited by J.Brachet, A.Mirsky. Reviewed by M.S.Navashin and others. TSitologiia 2 no.2: 254-258 Mr-Ap '60. (MIRA 14:5)
(CELLS) (BRACHET, J.) (MIRSKY, A.)

SVETLOV, P.G.

I.I. Sokolov on his seventy-fifth birthday. TSitologiia 2 no.3:387-388 My-Je '60. (MIRA 13:7)
(SOKOLOV, IVAN IVANOVICH, 1885-)

SVETLOV, P.G.

Embryological basis for the necessity of protecting the early period of intrauterine life in man. Vest. AMN SSSR 16 no.11:64-67 '61. (MIRA 15:2)

(FETUS) (PRENATAL CARE)

SVETLOV, P.G.; BYSTROV, V.D.; KORSAKOVA, G.F.

Morphology and physiology of the early stages in the development of bony fish; data from the film by Sh.D.Galustia and V.D.Bystrov, "The development of the loach (Misgurnus fossilis)". Arkh. anat. gist. i embr. 42 no.1:22-37 Ja '62. (MIRA 15:4)

1. Laboratoriya embriologii (zav. - prof. P.G.Svetlov) i laboratoriya nauchnoy kinematografii (zav. - V.D.Bystrov) Instituta eksperimental'noy meditsiny AMN SSSR. Adres avtorov: Leningrad, P-22, Kirovskiy prosp., 69/71, Laboratoriya embriologii i nauchnoy kinematografii Instituta embriologii AMN SSSR.

(LOACHES) (EMBRYOLOGY--FISHES)

SVETLOV, P.G.; KORSAKOVA, G.F.

Effect of temporary increase of the environmental temperature of the forked mutations of Drosophila melanogaster on the characters of the offspring. Dokl. AN SSSR 143 no.4:961-964 Ap '62. (MIRA 15:3)

1. Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR. Predstavleno akademikom Yu.M.Orlovym.
(TEMPERATURE--PHYSIOLOGICAL EFFECT) (HEREDITY)

SVETLOV, P.G.; KORSAKOVA, G.F.

Wing sizes in vestigial Drosophila melanogaster mutants as dependent on the temperature conditions of development in the larval and proembryonic periods of ontogenesis. Dokl.AN SSSR 145 no.4:922-925 Ag '62. (MIRA 15:7)

1. Institut eksperimental'noy meditsiny AMN SSSR. Predstavleno akademikom Yu.A.Orlovym.
(VARIATION (BIOLOGY)) (INSECTS--DEVELOPMENT)
(TEMPERATURE--PHYSIOLOGICAL EFFECT)

SVETLOV, P.G.

Effect of environmental conditions on sex determination in Drosophila melanogaster. TSitologiia 4 no.4:391-402 Jl-Ag '62. (MIRA 15:9)

1. Laboratoriya embriologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.
(DROSOPHILA) (SEX (BIOLOGY))

SVETLOV, P.G.; KORSAKOVA, G.F.

Effects of chemical agents on the expressivity of the mutational traits of Drosophila melanogaster. Dokl. AN SSSR 150 no.2:403-406 My '63. (MIRA 16:5)

1. Institut eksperimental'noy meditsiny AMN SSSR. Predstavleno akademikom I.I.Shmal'gauzenom.
(Drosophila) (Zoology--Variation)

SVETLOV, P.G.; KORSAKOVA, G.F.

Importance of the food composition on the appearance of mutations with forked bristles in the offspring of Drosophila melanogaster. Biul. eksp. biol. i med. 54 no.9:100-103 S '62. (MIRA 17:9)

1. Iz Instituta eksperimental'noy meditsiny (dir.- deystvitel'nyy chlen AMN SSSR D.A. Diryukov) AMN SSSR, Leningrad.

SVETLOV, P.G. (Leningrad, K-156, Prosp. Engel'sa, 28, kv. 198)

Importance of the germ layer theory in present-day science; in memory of A.O. Kovalevskii. Arkh. anat., gist. i embr. 44 no.4:7-25 Ap '63. (MIRA 17:6)

1. Laboratoriya embriologii instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

SVETLOV, P.G.

Integral and elemental methods in embryology. Arkh.anat., gist. i embr. 46 no.4:3-26 Ap '64. (MIRA 18:5)

1. Otdel embriologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad. Adres avtora: Leningrad, P-22, Kirovskiy prospekt 69/71, Institut eksperimental'noy meditsiny AMN SSSR, kafedra embriologii.

BIRYUKOV, D.A., prof., red.; IOFFE, V.I., prof., red.; NEYFAKH, S.A., prof., red.; OLENOV, Yu.M., prof., red.; SVETLOV, P.G., prof., red.; VAKHTIN, Yu.B., red.

[Problems of medical genetics] Problemy meditsinskoi genetiki. Leningrad, Meditsina, 1965. 246 p.
(MIRA 18:6)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut eksperimental'noy meditsiny. 2. Deystvitel'nyy chlen AMN SSSR (for Biryukov).

SVETLOV, P.G. (Leningrad)

Pathogenesis of hereditary and nonhereditary embryopathy. Arkh. pat. 27 no.8:3-9 '65. (MIRA 18:10)

1. Laboratoriya embriologii Instituta eksperimental'noy meditsiny AMN SSSR.

SVETLOV, P.G.; KORSAKOVA, G.F.

Relation of the characters of forked mutation in the progeny of Drosophila melanogaster females to temperature effects. Dokl. AN SSSR 165 no.1:214-216 N '65. (MIRA 18:10)

1. Institut eksperimental'noy meditsiny AMN SSSR. Submitted December 29, 1964.

SVETLOV, Petr Vasil'yevich; NILOV, Vladimir Isayevich; KOVAL'CHUK, A.V., red.; GUSAROV, K.F., tekhn. red.

[Methods for quartz crystal stabilization of a frequency band] Metody kvartsevoi stabilizatsii v diapozone chastot. Kiev, Gos. izd-vo tekhn.lit-ry USSR, 1961. 225 p. (MIRA 15:2)
(Frequency regulation) (Radio)

VANIN, P., sud'ya pervoy kategorii. (g. Orsk); GURINOV, V., sud'ya pervoy kategorii (g. Bryansk); SVETLOV, S. (g. Serpukhov); KOLOSOVSKIY, M. g. Shadrinsk); KOL'TSOV, N., sud'ya respublikanskoy kategorii.

To thee, our Communist Youth League! Kryl. rod. 9 no.9:4-5 S '58. (MIRA 11:10)

(Aeronautics)

POTEKUSHIN, N.V., inzh.; SVETLOV, S.A., inzh.

Mechanizing operations in billet shops. Mashinostroitel' no.2/3: 29-31 N-D '56. (MIRA 12:1)
(Factory management)

SVETLOV, S.A., inzh.

Mechanization of repair work by means of mechanical cranes. Mekh. i avtom.proizv. 19 no.3:12-13 Mr '65. (MIRA 18:4)

1. KOROLEV, N. I.; SVETLOV, S. I.; GOLOVKIN, A. M.; KOVALENKO, A. F.

2. USSR 600

4. Rolling Mills

7. Building foundations for rolling mills, Stroi. prom., 31, No. 1, 1953.

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

MYAGKOV, K.N., inzhener; SVETLOV, S.I., inzhener; POCHTAREV, F.K., inzhener; TURKIN, V.S., kandidat tekhnicheskikh nauk; MAKARICHEV, V.V., kandidat tekhnicheskikh nauk; TESLER, P.A.; KRIVITSKIY, M.Ya., kandidat tekhnicheskikh nauk.

Large-panel apartment houses built with honeycombed concrete. Stroi.prom.32 no.2:6-13 F '54. (MLRA 7:2)

1. Glavuralpromstroy (for Myagkov, Svetlov and Pochtarev).
2. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy (for Turkin, Mararichev, Tesler and Krivitskiy).
(Apartment houses) (Concrete construction)

SVETLOV, S.I., fel'dsher

Work of the medical center of the steel casting shop at the Kolomna Locomotive Factory. Med. sestra 20 no.1:46-48 Ja '61. (MIRA 14:3)

(KOLOMNA—IRON AND STEEL WORKERS—MEDICAL CARE)

SVETLOV, S.I. (Kolomna)

Active group of sanitary workers of the steel-founding shop of a car and locomotive works. Med. sestra 21 no.1:53-54 Ja '62. (MIRA 15:3)

(FACTORY SANITATION)

SVETLOV, S.I., fel'dsher (Kolomna)

Syringe with sterilizer and spirit lamp. Med.sestra 19 no.8: 35-36 Ag '60. (MIRA 13:7)

(SYRINGES)

SVETLOV, S.I. (Kolomna Moskovskoy oblasti)

Donor's day at a diesel locomotive factory. Med. sestra 21 no.4: 60 Ap '62. (MIRA 15:4)

(BLOOD DONORS)

SVETLOV, S.I., fel'dsher (Kolomna)

Use of Chaikovskii's solution in microtraumas at a diesel locomotive plant. Med. sestra 22 no.10:54-55 O'63 (MIRA 16:12)

L 64541-65 EWT(m)/EWP(i)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5018735 UR/0070/65/010/004/0586/0588
548.522:539.23

AUTHOR: Svetlov, S. P. 44 55

41
38
5

TITLE: Relation between the epitaxial temperature and the parameters of vacuum deposition

SOURCE: Kristallografiya, v. 10, no. 4, 1965, 586-588

TOPIC TAGS: germanium, epitaxial growing, vacuum technology, metal vapor deposition, 44 55

ABSTRACT: The view is expressed that the oxide layer of a germanium substrate may be removed by reacting with the germanium which is being deposited. By assuming that epitaxial growth can occur only on a surface free from oxide, and taking into account the interaction of the germanium being deposited with the oxide, the epitaxial temperature is related with the rate of deposition and the vacuum. It is found that to each rate of deposition corresponds an epitaxial

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L 64541-65

ACCESSION NR: AP5018735

3

temperature below which the growth is not epitaxial. The obtained results are in good agreement with the experimental results of a number of papers. Orig. art. has: 1 figure.

ASSOCIATION: Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut (Gor'kiy Physicotechnical Research Institute)

44,55

SUBMITTED: 21Sep64 ENCL: 00 SUB CODE: SS

NR REF SOV: 007 OTHER: 009

Card mlb 2/2

SVETLOV, V., inzh.

Modifying a conveyor for the processing of sheep and cattle. Mias. ind. SSSR 28 no.6:14-15 '57. (MIRA 11:1)

1. Biyskiy myasokombinat.
(Packing houses--Equipment and supplies)
(Conveying machinery)

SVETLOV, V.

Plant picks up speed. Mias. ind. SSSR 29 no. 4:18-20 '58.
(MIRA 11:8)

1. Biyskiy myasokonservnyy kombinat.
(Biysk--Meat, Canned)

SVETLOVA, L.F.; SVETLOV, V.A.

Epidemiological analysis of an outbreak of typhoid fever and the detection of typhoid bacterial carriage state. Zhur. mikrobiol., epid. i immun. 42 no.10:142 O '65.
(MIRA 18:11)

1. Kanashskaya rayonnaya sanitarno-epidemiologicheskaya stantsiya Chuvashskoy ASSR. Submitted December 8, 1964.

Svetlov, V.A.

82110
S/184/60/000/02/02/006

15.2210

AUTHORS: Svetlov, V.A., Engineer, Smirnov, N.S., Candidate of Technical Sciences, Kakovskiy, I.A., Doctor of Technical Sciences, Professor

TITLE: To the Study of Acid Resistance of Enameled Chemical Equipment

PERIODICAL: Khimicheskoye mashinostroyeniye, 1960, No 2, pp 27 - 30

TEXT: The authors describe methods of determining and improving the acid resistance of enamels. In the USSR and abroad (Refs 1 - 7), enamels have been developed which do not lose more than 0.1 - 1.0% of weight when boiled in hydrochloric acid during four hours. Nevertheless, there are failures of equipment due to an insufficient resistance of enamel coatings. The destruction of coatings does not appear over the entire surface, but only in some places. One of the reasons for failures of enameled chemical equipment are pores and microcracks which originate during the manufacturing process and during the operation of the equipment under the influence of an aggressive medium, especially at great temperature differences. The existing method of studying the acid resistance of enamel coatings by determining the amount of enamel components leached out by an aggressive solution from a surface unit

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To the Study of Acid Resistance of Enameled Chemical Equipment

during a certain time does not take into account the effect of a possible porosity of coatings. The industrial method of determining the porosity by HF currents at 6 - 8 kv does not characterize the resistance of enamel against aggressive media under real operation conditions. An enamel coating with a low conductivity can be considered as an imperfect capacitor. The processes taking place in enamel coatings exposed to an aggressive medium are recorded by changes of electric properties (alternating current is used). In the absence of pores and microcracks the active component of conductivity is considerably smaller than the reactive. With a temperature increase to 100 - 150°C both components increase. The ohmic conductivity increases by the exponential law (Refs 6 and 8). The resistance of a coating is determined for this case by the equation:

$$z_1 = \frac{1}{\sqrt{\frac{1}{r_1^2} + (\omega C_1)^2}} = K\frac{l}{S}, \qquad (1)$$

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To the Study of Acid Resistance of Enameled Chemical Equipment

where $K = \frac{1}{\sqrt{\chi^2 + \frac{\omega^2 \varepsilon^2}{1296 \cdot 10^{22} \pi^2}}}$;

l - thickness of enamel layer; S - surface of coating; χ - specific conductivity of enamel; ω - a.c. frequency; ε - dielectric constant of enamel. The resistance changes of an enamel coating due to the solution of enamel components can be represented graphically by a straight line with a gradient $\frac{K}{S}$. For the case of pores and microcracks formed in the enamel coating the resistance of the coating is:

$$z_2 = \frac{l}{\sqrt{\mu^2 \left(\frac{q}{n_u}\right)^2 + 2 \mu \chi S \left(\frac{q}{n_u}\right) + \frac{S^2}{K^2}}} \quad (2)$$

where q - summary surface of the equivalent section of pores and microcracks; μ - specific conductivity of the aggressive medium; n_u - coefficient of sinuousity of pores, approaching one. The resistance change of an enamel

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To the Study of Acid Resistance of Enameled Chemical Equipment

coating due to pores and microcracks is represented by an hyperbola equation. The following values determine the accuracy of the method. Enamels have a dielectric constant of about 10. Specific active electric conductivity of enamel can be determined by the tangent of the dielectric loss angle which is 10^{-1} at a temperature of 100 - 150°C. The specific electric conductivity of an aggressive medium (hydrochloric acid) has a value of about 1/ohm·cm. The resistance of 1 cm^2 of a 1 mm enamel coating is about 10^8 ohms. Calculations show that the resistance of an enamel coating is 10^7 ohms, i.e., it decreases by a factor of 10 if the total surface of pores and microcracks is 10^{-8} cm^2, (equivalent diameter of 1 micron). Such a resistance change can be easily recorded by modern instruments. Figures 3 and 4 show the circuit for measuring the resistance of an enamel coating exposed to 20% boiling hydrochloric acid and the measuring cell, respectively. The resistance was measured by comparing the voltage drop in the measuring cell with that in the entire electric circuit consisting of the measuring cell and of a noninductive resistance box. A "BKC-7Б" (VKS-7B) cathode voltmeter (3 Megohms) was used. The tests were carried out as follows. Drosses of "Э-1" (E-1) and No "2237" and "2235" acidproof enamels (rated composition: SiO_2 - 58.13%; Al_2O_3 - 2.14%; B_2O_3 - 1.94%; Na_2O -

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To the Study of Acid Resistance of Enameled Chemical Equipment

15.25%; K_2O - 2.42:; CaO - 4.36%; Na_3AlF_6 - 7.14%; TiO_2 - 7.75%; CoO - 0.87%) were applied to specimens of cold rolled "08КП" (08KP) steel. After the drosses had been dried (at 120°C), the specimens were baked in a muffle furnace. Those covered with E-1 enamel at 840 - 860°C and those covered with No 2237 and 2235 enamels at 760°C and 830°C, respectively. The baked specimens were fixed in the measuring cell filled with a boiling 20% hydrochloric acid solution. The specific resistance graphs of enamel coatings plotted against the time of their exposure to an aggressive solution lead to the assumption that the dissolution and the pore formation proceed simultaneously. A period of resistance stability was observed in all cases after an intensive resistance decrease. The microscopic inspection of the surfaces during this period showed a porous silica film on the enamel surface. The electronographic investigation revealed an amorphous structure of the film. It can be assumed that the resistance stabilization is connected with the formation of an amorphous silicic acid film on the enamel surface due to leaching out of enamel borates and silicates by boiling hydrochloric acid. This film delays a further destructive action of the aggressive solution. The acid penetrates gradually through the pores of the film and contacts the metal after a certain time. This causes a sharp resistance decrease.

Card 5/6

SVETLOV, V A.

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PHASE I BOOK EXPLOITATION SOV/5583

Podkletnov, Ye. N., Stalin Prize Winner, ed.

Emal' i protsessy emalirovaniya (Enamels and Enameling Processes) Moscow, Mashgiz, 1961. 113 p. 4,000 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov UkrSSR. Institut tekhnicheskoy informatsii.

Ed.: N. P. Onishchenko; Tech. Ed.: M. S. Gornostaypol'skaya; Chief Ed.: Mashgiz (Southern Dept.): V.K. Serdyuk, Engineer.

PURPOSE: This book is intended for engineering and technical personnel concerned with the research, production, and uses of enamel.

COVERAGE: This collection of articles on enamels and enameling processes is based on material presented at the first Ukraine-wide conference on the production of enamel and enameled equipment, organized by the State Scientific Technical Committee of the Ukrainian SSR, the Kiyev Sovnarkhoz, Chemical

Card 1/4

Enamels and Enameling Processes SOV/5583

Society imeni Mendeleyev, Scientific Technical Society of the Machine-Building Industry, and other sovnarkhozes, scientific research institutes, and planning organizations. [The name, place, and date of the conference are not given.] The following are discussed: old and new types of enamels, their composition, properties, uses, and methods of production; the production of enameled equipment (chemical apparatus, pipes, cisterns, etc.), and their use in the coal, chemical, food, and other industries; latest advances in the mechanization of enameling processes and techniques; the effect of underlying surfaces on the quality of enamel coatings; and methods of modifying the properties of enamel coatings, e.g., increasing their chemical stability. American and Chinese practices and production are also briefly discussed. No personalities are mentioned. There are 32 references: 22 Soviet, 7 English, and 3 German.

TABLE OF CONTENTS:

L 19198-63 EWP(j)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3 Pc-4/Pq-4 RM/WH/
MAY

ACCESSION NR: AR3004196 S/0276/63/000/005/B131/B132

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 5B675

AUTHOR: Zhikova, V. P.; Svetlov, V. A.; Smirnov, N. S.

TITLE: Determination of mechanical strength of enamel coating on the inner surface of pipes

CITED SOURCE: Tr. Ural'skogo n.-i. in-ta chern. metallov, v. 1, 1961, 302-303

TOPIC TAGS: mechanical strength, enamel coating, enamel pealing, enamel breaking, liquid contact material

TRANSLATION: A method has been developed for determining the mechanical strength of enamel, glass and other electrically non-conductive coatings of the inner surface of seamless welded steel pipes of various diameters. The mechanical strength of coatings if characterized by the magnitude of loading (applied to the investigated pipe perpendicular to its axis), at which the coating uniformity is affected. The moment of coating violation (peeling or breaking of enamel, etc.) is determined by a measuring device, connected to the electric circuit in series with the vessel. Solution of sodium chloride in the vessel serves as a liquid contact with the

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L 19198-63

ACCESSION NR: AR3004196

metallic pipe material when the coating is damaged. Five simultaneous measurements are required for obtaining results with up to 10% accuracy. L. Kamionskiy.

DATE ACQ: 21Jun63 SUB CODE: IE, MA ENCL: 00

Card 2/2

ACCESSION NR: AR4015697 S/0081/63/000/023/0400/0400

SOURCE: RZh. Khimiya, Abs. 23M164

AUTHOR: Zhukova, V. P.; Kolmogorov, V. L.; Svetlov, V. A.; Smirnov, N. S.

TITLE: Investigation of the mechanical durability and thermal stability of enamel and glass coatings on the inner surface of steel pipes

CITED SOURCE: Tr. Ural'skogo n.-i, in-ta chern. met., v. 2, 1963, 248-259

TOPIC TAGS: enamel, glass, enamel coating, glass coating, steel pipe, pipe lining

ABSTRACT: It was established that with a decrease in the coefficient of thermal expansion of enamels and glass which are utilized in the coating of the inner surface of steel pipes, the mechanical durability and thermal stability of the coatings significantly increase. Addition of Fe oxides (up to 10%) to prime enamel and the use of frittered ground glass, the properties of which are close to those of the glass coatings, as the prime coating also have a favorable effect on the properties of the enamel and glass coatings studied. A method is developed for calculating the stresses which appear in the coating under the influence of forces which deform the pipe. Authors' summary

Card 1/1 DATE ACQ: 09Jan64 SUB CODE: MT ENCL: 00

KAKOVSKIY, I.A. (Sverdlovsk); SVETLOV, V.A. (Sverdlovsk)

Kinetics of cyaniding palladium alloys with silver. Izv. AN SSSR. Met. no.3:50-58 My-Je '65. (MIRA 18:7)

ACC NR: AP6035745 (N) SOURCE CODE: UR/0413/66/000/019/0106/0107

INVENTOR: Nagel', L. F.; Il'in, G. S.; Svetlov, V. D.

ORG: none

TITLE: Cylindrical hydroacoustic transducer. Class 42, No. 186780

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 106-107

TOPIC TAGS: sonar, sonar transducer, sonar equipment, acoustic transducer, piezolectric transducer

ABSTRACT: An Author Certificate has been issued for cylindrical hydroacoustic transducer in the form of a stack of piezoceramic disks with metal-plated faces, in which radial oscillations are excited by transverse piezoeffect (see Fig. 1). To improve efficiency, keyhole slots have been cut in the disks and the leads having the same polarity are connected to a common power source. Orig. art. has: 1 figure.
[WA-14]

Card 1/2 UDC: 534.232

SVETLOV, V. I., Professor

Philosophy

"The Imperfections in the Development of Questions Concerning the History of Western European and Russian Philosophy," Vest. Ak. Nauk SSSR, No. 7-8, 1944

BR-52059019

SVETLOV, V. I.

Svetlov, V. I. "Results of the Session of the All-Union Academy of Agricultural Sciences imeni V. I. Lenin, and the goals of improving lectures in biological sciences in higher educational institutions", (Report to the VIIth Session of the Academy of Sciences, Lithuanian SSR, together with that of the Ministry of Higher Education USSR, September 1948), Vestnik Akad. nauk Litov. SSR, IV-V, 1949, p. 57-89, 205-33, (In Russian and Lithuanian).

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

PANIBRATCHENKO, M.I.; SVIETLOV, V.M. [Svietlov, V.M.]

Increasing production of coal. Nauka i zhyttia 6 no.9: 25-26 S '56. (MIRA 13:5)

1. Glavnyy inzhener shakhty imeni Kiseleva tresta "Chistyakovantratsit," Stalinskaya oblast' (for Panibratchenko).
(Stalino Province--Coal mines and mining)

SVETLOV, V.N.; KHRAMTSOV, S.M., otv. red.; KHANZON, Yu.S., tekhn. red.

[Donets Basin coal miners; practices of innovators in shaft sinking] Prokhodchiki Donbassa; opyt novatorov prokhozhdeniia gornykh vyrabotok. Moskva, Ugletekhizdat, 1950. 52 p. (MIRA 15:4)

(Donets Basin—Shaft sinking)

SVETLOV, V.S.

Kinetics of the variation of nitric oxide content in decomposition products of nitroglycerin. Nauch. dokl. vys. shkoly; khim. i khim. tekh. no.3:422-425 '58. (MIRA 11:10)

1.Predstavlena Moskovskim khimiko-tekhnologicheskim institutom imeni D.I. Mendeleyeva.
(Nitrogen oxide) (Nitroglycerin)

GORSHKOV, V.S.; SVETLOV, V.S.; KRYZHANOVSKIY, V.A., red. izd-va; IYERUSALIMSKAYA, Ye., tekhn. red.

[Simultaneous recovery of rare metal minerals in using the hydromechanical method to work loose rocks]Poputnoe poluchenie redkometal'nykh mineralov pri razrabotke rykhlykh gornykh porod sposobom gidromekhanizatsii. Moskva, Gosgeoltekhizdat, 1962. 57 p. (MIRA 15:12)

(Hydraulic mining—By-products) (Metals, Rare and minor)

SVETLOV, Vasiliy Sil'vestrovich; ROTSHTEYN, A.G., kand. ekon. nauk, nauchnyy red.; BOGINA, S.L., red. izd-va; MIKHEYEVA, A.A., tekhn. red.

[Technical progress and working personnel in construction] Tekhnicheskii progress i rabochie kadry v stroitel'stve. Moskva, Gosstroiizdat, 1962. 107 p. (MIRA 16:1)
(Construction industry)

GRECHISHKIN, V.S.; SVETLOV, Yu.G.; SOYFER, G.B.

Variation of the multiplet nature of the spectrum of quadrupole nuclear resonance in solid CCl_4. Fiz. tver. tela 3 no.8:2390-2393 Ag '61. (MIRA 14:8)

1. Permskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
(Carbon tetrachloride)
(Nuclear magnetic resonance and relaxation)

37927

S/035/62/000/005/017/098
A055/A101

3,1220

AUTHOR: Svetlov, Yu. G.

TITLE: Attachment to the AT-1 tube for the determination of the azimuthal coordinates of Artificial Earth Satellites

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 16, abstract 5A132 ("Uch. zap. Permsk. un-t", 1961, 19, no. 3, 71 - 73)

TEXT: An attachment to the AT-1 tube was designed at the Perm' visual-optical station for the determination of the azimuthal coordinates of Artificial Earth Satellites. The attachment was tested in operation. According to the author, the overall error (without taking into account the individual errors of the observers) does not exceed $\pm 0^{o}.5$.

V. N.

[Abstracter's note: Complete translation]

Card 1/1

GRECHISHKIN, V.S.; SOYFER, G.B.; SVETLOV, Yu.G.

Use of the nuclear quadrupole resonance method in studying phase transitions in certain crystals. Izv. vys. ucheb. zav.; fiz. no.5: 32-38 '63. (MIRA 16:12)

1. Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.

GRECHISHKIN, V.S.; ZLATOGORSKIY, M.L.; SVETLOV, Yu.G.

Apparatus for observing wide lines of nuclear magnetic resonance. Izv. vys. ucheb. zav.; radiofiz. 6 no.1:36-41 '63. (MIRA 16:7)

1. Permskiy gosudarstvennyy universitet.
(Nuclear magnetic resonance)

S/181/62/004/005/039/055
B112/B108

AUTHORS: Bulyanitsa, D. S., and Svetlov, Yu. Ye.

TITLE: Some properties of the functions of Bloch and Wannier

PERIODICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1339-1345

TEXT: The Bloch functions are the eigenfunctions of the Schrödinger equation

$$(-\nabla^2 + V(\vec{r}))f(\vec{k},\vec{r}) = E(\vec{k})f(\vec{k},\vec{r})$$

with a periodic potential $V(\vec{r})$. The analyticity of the Bloch functions $f(\vec{k},\vec{r})$ as dependent on the parameter $\vec{k}$ is shown. This result is applied to the study of the functions

$$a_m(\vec{n},\vec{r}) = (1/\sqrt{N})\sum_k e^{-i\vec{k}\vec{n}} f_m(\vec{k},\vec{r}),$$

which have been introduced by G. Wannier (Phys. Rev., 52, 191, 1937). Their asymptotic behavior according to an exponential law is established.

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Card 1/2

Some properties of the functions ...

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Card 2/2

The present paper gives a rigorous proof of this assumption. First, the auxiliary equation $E_1\psi$ (2) is solved. This is done by setting up the equation H_1U on the connection between the functions $\psi(\rho,z,\varphi)$ and $U(\rho,z)$ $\psi(\rho,z,\varphi) = \frac{1}{\sqrt{\rho}} e^{i\mu\varphi}U(\rho,z)$, where $U(\rho,z)$ can be split up into factors: $U(\rho,z) = R(\rho).Z(z)$. From the equations obtained for $R(\rho)$ and $Z(z)$, from the equation $R(\rho)$ λ can be determined in equation (7). As the energy of the discrete spectrum satisfies the inequation $\frac{E_1}{d} - \lambda < 0$, $E_1 = \sqrt{d}\,(|\mu|+1)$ (9) gives for the equation (2) the upper boundary of the purely discrete sprectrum. At the lower boundary of the discrete spectrum is a superimposition of discrete lines and a continuous spectrum. For the determination of the upper boundary the minima of the functional $I(\varphi) = \int (\varphi_x^2 + \varphi_y^2 + \varphi_z^2 + (V_1 - V_2)\varphi^2)\, d\tau$ (10) with $V_1 = x^2 + y^2$, $V_2 = \gamma/r$ and $V_2 = \gamma/r \leq \frac{a}{r^2} + \frac{b}{\sqrt{\rho_o^2 + z^2}}$ (11) with

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ρ_0 being maintained and a small value of a, value b can be found so that the above inequation holds. On determining a and b and d and $V_2 = \gamma/r \geqslant \frac{b_1}{\sqrt{\rho_0^2 + z^2}} - \varepsilon$, respectively, an inequation is obtained from which $E_{n \to \infty} \longrightarrow |\mu| + 1$ follows for $n \to \infty$. The author thanks Professor P. P. Pavinskiy for valuable advice. There are 2 Soviet references.

Card 3/3

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