

AUTHORS: Levich, I.A. and ~~Eydel'man, A.Ye.~~ 68-58-5-9/25
- TITLE: An Improvement in the Method of Preparing Freshly Dissolved
Arsenic Before its Feeding into the Operating Solution
(Usovershenstvovaniye sposoba podgotovki svezherastvor-
ennogo mysh'yaka pered podachey yego v rabochiy rastvor)
PERIODICAL: Koks i Khimiya, 1958, Nr 5, pp 31 - 35 (USSR).

ABSTRACT: In 1956, the stability of the arsenical complex in the solution purifying coke oven gas from hydrogen sulphide was unstable; it was decomposing with the precipitation of arsenic sulphide. A supply of freshly dissolved arsenic to the plant had no substantial influence on increasing its concentration in the purifying solution. An increase of pH to 8 - 8.2 of the freshly prepared arsenical solution had no beneficial influence on the stability of the complex. The negative results were also obtained on transferring sodium arsenite into tri-compound of trivalent arsenic by preliminary saturation of the fresh solution with hydrogen sulphide (from coke oven gas). In the fresh solution, this trisalt is stable but on contact with the operating reagent it is easily transformed into oxythioarsenical salt which is easily decomposed. It was found that in order to increase the stability of arsenic in the operating solution the fresh solution should be preliminarily transformed into pentavalent

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An Improvement in the Method of Preparing Freshly Dissolved Arsenic
Before its Feeding into the Operating Solution

68-58-5-9/25

arsenic. This can easily be obtained by saturating the salt with hydrogen sulphide and subsequent oxidation with air. If these operations are performed outside the working cycle, stable compounds are formed which do not decompose on entering the operating solution. It is pointed out that the preparation of the arsenical solution should be carried out on a special installation.

ASSOCIATION: Zaporozhskiy koksokhimicheskiy zavod (Zaporozhiye
Coke Oven Works)

Card 2/2

Sov/68-59-10-7/24

AUTHORS: Eydel'man, A.Ye., Yelenskiy, F.Z., and Klipinitser, T.S.

TITLE: Characteristics of the Size Distribution of Coke

PERIODICAL: Koks i khimiya, 1959, Nr 10, pp 27-30 (USSR)

ABSTRACT: In view of the variability of the size distribution of coke which could not be explained by the coking technology, the accuracy of the determination of the size distribution of coke using mechanised screens with square mesh was investigated. It was established that due to the prismatic structure of coke, screening on square mesh screens does not give a correct picture of the size distribution of coke. About 15% of lumps from the fraction 60-80mm finds its way into the 60-40mm fraction. This value is not constant and depends on the structure of the coke. In parallel determinations of the size distribution of coke, deviations in the +40mm fraction amount to 2.5% while the results for the -40mm fraction were more accurate. In large coke sizes about 33% of all lumps possess the coefficient of "columnarity" (ratio of height to width) of 1.1-1.3 and 33% of 1.3-1.5. There are 4 figures and 4 tables.

ASSOCIATION: Zaporozhskiy koksokhimicheskiy zavod (Zaporozh'ye Coking Works)
Card 1/1

BYDEL'MAN, A.Ye.; YELENSKIY, F.Z.; BUTUZOV, P.D.

Effect of the size distribution and moisture of the individual classes of coal charges on their bulk weight. Koks i khim. no.2: 3-6 '61. (MIRA 14:2)

1. Zaporozhskiy 'koksokhimicheskii zavod.
(Coal preparation)

KULESHOV, P.Ya.; GOLUBCHIK, A.L.; SITALO, M.V.; EYDEL'MAN, A.Ye.;
YELENSKIY, F.Z.

New flow sheet for the preparation of coal charges for coking.
Koks i khim. no. 3:5-8 '61. (MIRA 14:4)

1. Zaporzhskiy koksokhimicheskiy zavod.
(Coal preparation)

BRUK, A.S.; OBUKHOVSKIY, Ya.M.; BELETSKIY, V.G.; LEYBOVICH, R.Ye.;
KULESHOV, P.Ya.; GOLUBCHIK, A.L.; SITALO, M.V.; EYDEL'MAN, A.Ye.

Improving the stability of coke quality at the Zaporozh'ye
By-Product Coke Plant. Koks i khim. no.16:10-12 '61.

(MIRA 15:2)

1. Dnepropetrovskiy metallurgicheskiy institut (for Bruk,
Obukhovskiy, Beletskiy, Leybovich). 2. Zaporozhskiy koksokhimi-
cheskiy zavod (for Kuleshov, Golubchik, Sitalo, Eydel'man)
(Zaporozh'ye—Coke)

KULESKOV, P.Ya., kand.tekhn.nauk; EYDEL'MAN, A.Ye., kand.tekhn.nauk; G~~OLY~~BCHIK, AL.,
inzh.; YELENSKIY, F.Z., inzh.

Ways of improving the quality of blast furnace coke produced by the
Zaporozh'ye Coke Industry. Stal' 23 no.1:8-10 Ja '63. (MIRA 16:2)

1. Zaporozh'skiy koksokhimicheskiy zavod.
(Zaporozh'ye—Coke industry—Quality control)

GOLYAND, S.M.; STRAKHOVA, A.Ye.; KULESHOV, P.Ya.; LEVICH, I.A.;
EYDEL'MAN, A.Ye.

Production of sodium thiocyanate from the waste waters of arsenic-
soda sulfur removal. *Koks i khim.* no.5:45-48 '63. (MIRA 16:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut po promyshlennoy
i sanitarnoy oчитke gazov (for Golyand, Strakhova). 2. Zaporozhskiy
koksokhimicheskiy zavod (for Kuleshov, Levich, Eydel'man).
(Sodium thiocyanate) (Coke industry—By-products)

SONIN, M.Ya.; NYDEL'MAN, B., redaktor; LYASNIKOV, I., redaktor.

[Training skilled workers in industry] Podgotovka kvalifitsirovannykh rabochikh na proizvodstve. 2., dop. izd.

[Moskva] Gos. izd-vo polit. lit-ry, 1954. 209 p. (MLRA 7:8)
(Technical education) (Employees, Training of)

Handwritten scribbles
NEKRASOV, Nikolay Nikolayevich, prof.; EYDEL'MAN, B.I., red.; LIPKINA, T.G.,
red.izd-va; TITOVA, L., tekhn.red.

[Economics of the chemical industry] Ekonomika khimicheskoi pro-
myshlennosti. Moskva, Gos. izd-vo "Sovetskaya nauka," 1957. 395 p.
(Chemical industries) (MIRA 11:3)

PRUDENSKIY, G.A., glavnyy red.; STEPANOV, A.P., red.; EYDEL'MAN, B.I., red.;
PODGORNOVA, V., red.; TROYANOVSKAYA, N., tekhn. red.

[Labor problems in the U.S.S.R.] Voprosy truda v SSSR. Moskva,
Gos. izd-vo polit. lit-ry, 1958. 406 p. (MIRA 11:12)

1. Nauchno-issledovatel'skiy institut truda.
(Labor and laboring classes)

NEKRASOV, Nikolay Nikolayevich; EYDEL'MAN, B.I., red.; LIPKINA, T.G.,
red.izd-va; GRIGORCHUK, L.A., tekhn.red.

[Economics of the chemical industry] Ekonomika khimicheskoi
promyshlennosti. Izd.2., perer. i dop. Moskva, Gos.izd-vo
"Vysshaya shkola," 1959. 478 p. (MIRA 13:3)

1. Chlen-korrespondent AN SSSR (for Nekrasov).
(Chemical industries)

PODGORODETSKIY, Ivan Aleksandrovich; SHOLOMOVICH, I.A. otv. red. [deceased];
EYDEL'MAN, B.I., red.; ROMANOVA, S.F., tekhn. red.

[The economic analysis of the operations of communication and traffic enterprises] Ekonomicheskii analiz deiatel'nosti predpriatii sviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 323 p.
(MIRA 14:11)

(Communication and traffic--Accounting)

VOLCHKOV, Boris Alekseyevich; EYDEL'MAN, B.I., red.; PONOMAREVA,
A.A., tekhn. red. ~~_____~~

[Development of industry and the creation of the material
and technical base of communism] Razvitie promyshlennosti
i sozdanie material'no-tekhnicheskoj bazy kommunizma. Mo-
skva, Ekonomizdat, 1963. 81 p. (MIRA 16:9)
(Russia--Economic policy) (Technology)

ZHURAVLEV, Mikhail Rodionovich; EYDEL'MAN, B.I., red.; MOZGALEVSKAYA,
S.A., red.; PONOMAREVA, A.A., tekhn. red.

[For the high standards of production organization] Za vy-
sokuiu kul'turu proizvodstva. Moskva, Ekonomizdat, 1963.
89 p. (MIRA 16:8)
(Industrial organization) (Quality control)

SRAPIONOV, Onik Sergeevich; SMORCHKOVA, Yekaterina Pavlovna;
YESIKOV, S.R., *otv. red.*; EYDEL'MAN, B.I., *red.*;
ROMANOVA, S.F., *tekhn. red.*

[Business accounting in communication enterprises] Khozias-
stvennyi raschet v khoziaistve sviazi. Moskva, Sviaz'izdat,
1963. 159 p. (MIRA 16:5)
(Telecommunication--Finance)

KOTOV, Fedor Ivanovich; EYDEL'MAN, B.I., red.; BAZLOVA, Ye.M.,
mladshiy red.

[Problems of labor and wages during the period of transi-
tion to communism] Problemy truda i zarabotnoi platy v pe-
riod perekhoda k kommunizmu. Moskva, Ekonomizdat, 1963.
335 p. (MIRA 17:1)
(Labor and laboring classes) (Wages)

LOKSHIN, E.Yu., doktor ekon. nauk; ANDREYEVA, O.I., kand. ekon. nauk, dots.; VOROSHILOVA, T.S., kand. ekon. nauk, dots.; SADOMTSEV, V.K., kand. ekon. nauk, dots.; SMIRNOV, P.V., kand. ekon. nauk, dots.; TARAS'YANTS, R.B., kand. ekon. nauk, dots.; FASOLYAK, N.D., kand. ekon. nauk, dots.; LOZOV, Ya.D., st. prepod.; SHMELEVA, Z.S., st. prepod.; NOVIKOV, D.T., aspirant; PORA-LEONOVICH, B.N.; ALEKSANDROVSKIY, V.V.; BURSHTEYN, I.I.; EYDEL'MAN, B.I., red.; MOZGALEVSKAYA, S.A., mlad. red.; GERASIMOVA, Ye.S., tekhn. red.

[Manual for the supplying and selling of materials and equipment] Spravochnik po material'no-tehnicheskomu snabzheniu i sbytu. Moskva, Ekonomizdat, 1963. 344 p.
(MIRA 17:1)

1. Nachal'nik ekonomicheskogo otdela Upravleniya material'no-tehnicheskogo snabzheniya Soveta narodnogo khozyaystva Moskovskogo gorodskogo ekonomicheskogo rayona (for Pora-Leonovich).
2. Nachal'nik otdela snabzheniya 1-go Gosudarstvennogo podshipnikovogo zavoda (for Aleksandrovskiy).

KOLDOMSKIY, Yuriy Ivanovich; EYDEL'MAN, B.I., red.; PONOMAREVA,
A.A., tekhn. red.

[Economic ties in the national economy of the U.S.S.R.] Eko-
nomicheskie sviazi v narodnom khoziaistve SSSR. Moskva, Eko-
nomizdat, 1963. 430 p. (MIRA 16:10)
(Transportation) (Russia--Industries)

GASHTAK, Vladimir Iosifovich; KAYDANCHIK, Boris Ionatelevich;
LYDELMAN, B.I., red.; SOZGAL'EVSKAYA, S.A., mladshiy red.

[Interplant economic analysis; methods and practice in
carrying it out; Hozhzavodskii ekonomicheskii analiz; me-
todika i opyt provedeniia. Moskva, Ekonomika, 1964. 195 p.
(MIRA 17:8)

ZAMALIN, Vladimir Samsonovich; ~~EYDEL'MAN, B.I.~~, red.; KHADASEVICH,
Yu.G., mlad. red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning standardization and normalization] Planirovanie
standartizatsii i normalizatsii. Moskva, Izd-vo "Ekonomika,"
1964. 197 p. (MIRA 17:3)

TEPLOV, Georgiy Vasil'yevich, doktor ekon. nauk, prof.;
STEPANOV, A.Y.; EYDEL'MAN, B.I., red.

[Planning in an industrial enterprise; theory and
practice] Planirovanie na promyshlennom predpriatii;
teoriia i praktika. Moskva, Ekonomika, 1964. 478 p.
(MIRA 17:12)

SANKIN, D.I., kand. ekon. nauk; SEMINOV, S. I., kand. ekon. nauk;
BEREZNOY, N.I., kand. ekon. nauk; ZHDANOV, A.I., kand.
ekon. nauk; CORCHAKOV, A.A., inzh.; ZAKHAROV, V.V., inzh.;
YUNOVICH, I.M., inzh.; RYVKIN, A.S., inzh.; KOVRIGIN, V.V.,
ekonomist; DIDENKO, S.I., kand. ekon. nauk; SANDOMIRSKIY,
A.T., ekonomist; GONCHARENKO, B.L., kand. ekon. nauk; KOTUV,
V.F., inzh.; EYDEL'MAN, B.I., red.

[Handbook for the economist and planner in an industrial
enterprise] Spravochnik ekonomista i planovika promyshlen-
nogo predpriatiia. Moskva, Ekonomika, 1964. 698 p.
(MIRA 17:6)

KHODILIN, Stepan Ignat'yevich; GORDON, Aleksandr L'vovich;
EYDEL'MAN, B.I., red.

[New developments in operative planning in industrial
enterprises] Novoe v operativnom planirovanii na pro-
myshlennykh predpriatiakh. Moskva, Ekonomika, 1964.
78 p. (MIRA 18:2)

EYDELMAN, B. M.

2496. Edelman B.

Rabkin's polychromatic test Vestnik Oftalmologii 1940, 17/5 (658-663)

Investigations in a number of normal trichromats and persons with anomalies of the colour-sense with the aid of Nagel's anomaloscope and the tests of Rabkin and Ishihara. The majority of the tests of Rabkin and also of Ishihara give accurate data. The sensitivity of both groups of tests is considerable. In diagnosing protanopes the tests of Rabkin are reliable, but in the detection of anomalous trichromats they are considerably inferior to the tests of Ishihara. Kalfus - Odessa (Sec. XII)

Section II Vol. 1.¹ Jan-Jun 48 No. 1--6

EYDELMAN, B.M.

RIDELMANN, B. M.

Skin tests as a diagnostic method of allergic medicamentous dermatitis. Vest. oft. 29:4, July-Aug. 50. p. 16-7

1. Of the Department of Eye Diseases (Head--Prof. P. Ye Tikhomirov)
Leningrad Sanitary-Hygienic Medical Institute.

CLML 19, 5, Nov., 1950

CA EYDELMAN, B.M.

114

Comparative action of carbocholins, pilocarpine, eserine, and proserine on intraocular pressure. D. M. Eidel'man (Leningrad Sanit. Hyg. Med. Inst.). *Vestnik Oftalmol.* 30, No. 2, 34-6(1951).—Carbocholins (I) and proserine readily lower intraocular pressure when used in 0.75% and 1% solutions, resp. I is somewhat more effective than pilocarpine both in the extent of pressure reduction and duration. Proserine is approx. equiv. to I, in intensity of action, but shows longer duration which approaches that of eserine. While I shows little in the way of side-reactions, proserine is apt to induce headaches. G. M. Kozlovskii

USSR/Pharmacology - Toxicology - Chelating Agents. V

Abs Jour : Ref Zhur Biol., No 4, 1959, 18651

Author : Eydel'man, B.M.

Inst : Leningrad Medical Institute of Sanitation and Hygiene

Title : Clinical Observations of Application of Vitamin P
(Citrine) in Glaucoma

Orig Pub : Tr. Leningr. san.-gigiyen, med. in-ta, 1958, 50, 196-203

Abstract : Vitamin P was applied as supportive agent for treatment of glaucoma in 30 patients. P was introduced intravenously in a dose of 50 mg. daily each, 25-30 injections altogether per course. Under the influence of P the general condition and sleep improved and increased excitability of the nervous system decreased; in a number of patients, the intraocular pressure decreased sometimes to normal level. In 18 patients glaucoma passed from the

Card 1/2

EYDEL'MAN, D.

SOS in the wide expanses of seas and oceans. Mor. flot 24 no.9:
43 S '64. (MIRA 18:5)

EYDEL'MAN, D., inzh.-korablestroitel'

Averages that could have been avoided. Mor. flot 25 no.2:42-43
F '65. (MIRA 18:4)

EYDEL'MAN, D., inzh.-korablestroitel'; CHUMACHENKO, A., inzh.-korablestroitel'

Capsizing at the pier. Mor. flot 25 no.11:41-42 N '65.
(MIRA 18:11)

EYDEL'MAN, D., inzhener-korablestroitel'

Use of helicopters in lifesaving operations at sea. Mor. flot.
25 no. 12:39-41 D '65. (MIRA 18:12)

EYDEL'MAN, D., konstruktor

Heavy losses at sea. Mor.flot 21 no.4:41-42 Ap '61. (MIRA 14:4)

1. Tsentral'noye proyektno-konstruktorskoye byuro No.1:
(Shipwrecks)

WIDEL'MAN, D., inzh.-korablestroitel'

New documents and publications on standards of the U.S.S.R. Register.
Mor. flot 23 no.3:39-40 Mr '63. (MIRA 16:3)
(Ship registers) (Shipbuilding—Standards)

HYDEL'MAN, D.Ya., inzhener.

New nonmetal materials used in Polish shipbuilding. Sudostroenie
22 no.4:49-51 Ap '56. (MLRA 9:9)
(Poland--Shipbuilding--Supplies)

EYDEL'MAN, D. Ya., inzh.

Discussion of navigation safety at sea. Sudostronie 28
no.10:72-73 0 '62. (MIRA 16:1)

1. Uchenyy sekretar' seksii morekhodnykh kachestv Tekhnicheskogo
soveta Registra SSSR.

(Navigation—Safety measures)

BLAGOVESHCHENSKIY, S.M., prof., etv. red.; SYRELMAN, D.Ya.,
inzh., red.

[Norms of the stability of seagoing ships] Normy ostoi-
chivosti morskikh sudov. Leningrad, Izd-vo "Morskiy
transport," 1963. 139 p. (MIRA 18:1)

1. Russia (1923- U.S.S.R.) Register of Ships 1961.

ORLOV, D.A., spets.red.; EYDEL'MAN, D.Ya., spets.red.; KOTLYAKOVA,
O.I., tekhn. red.

[Theoretical and practical problems of stability and
reserve buoyancy of seagoing ships] Teoreticheskie i
prakticheskie voprosy ostoichivosti i nepotopliaemo-
sti morskikh sudov. Leningrad, Izd-vo "Morskoi transport,"
1963. 234 p. (MIRA 17:1)

1. Russia (1923- U.S.S.R.) Registr Soyuza SSR.

BLAGOVESHCHENKIY, S., doktor tekhn.nauk, prof.; VOZNESENSKIY, A., kand.tekhn.nauk; VOYTKUNSKIY, Ya., kand.tekhn.nauk, dotsent; GERASIMOV, A., kand.tekhn.nauk, dotsent; GRECHIN, M., kand.tekhn.nauk; DORIN, V., kand.tekhn.nauk; DOROGOSTAYSKIY, D., doktor tekhn.nauk; KOSOUIOV, K., doktor tekhn.nauk, prof.; KRIVTSOV, Yu., kand.tekhn.nauk; MURU, N., kand.tekhn.nauk, dotsent; SEMENOV-TYAN-SHANSKIY, V., doktor tekhn.nauk, prof.; SOLOV'YEV, V., kand.tekhn.nauk, dotsent; TOPORKOV, I., inzh.; FIRSOV, G., doktor tekhn.nauk, prof.; FISHER, A., inzh.; KHRUSTIN, V., kand.tekhn.nauk, dotsent; EYDEL'MAN, D., inzh.

Concerning P.Khokhlov's article "Determining the center of gravity of a vessel during an inclining experiment with trim difference."
Mor. flot 23 no.5:33-34 '63. (MIRA 16:9)
(Stability of ships)

EYDEL'MAN, D., inzh.-korablestroitel'

Overturning of undamaged ships. Mor. flot 23 no.8:42-43
Ag '63. (MIRA 16:11)

EYDEL'MAN, D., inzh.

Tragedy on the ocean. Mor. flot 23 no.9:42-43 S '63.
(MIRA 16:11)

EYDEL'MAN, D., inzh.

Torches over the ocean. Mor. flot 23 no.11:44-46 N '63. (MIRA 16:12)

EYDEL'MAN, E.M.; POPOVA, O.F.

Methods for studying the photosynthetic phosphorylation. Trudy Otd.
fiziol. i biofiz. rast. AN Tadzh. SSR 2:194-231 '62.

(MIRA 16:4)

(Photosynthesis)

(Phosphorylation)

L 63773-65 EWT(1)/EWA(h) GW

ACCESSION NR: AR6018982

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550.834

19
B

SOURCE: Ref. zh. Geofizika, Abs. 7D164

AUTHOR: Karayev, N. A.; Eydel'man, E. S.

TITLE: Modernization of a seismographic station with an SSM-57(PSLM-1) intermediate magnetic recording unit

CITED SOURCE: Sb. Vopr. razved. geofiz., vyp. 4, L., Nedra, 1964, 57-64

TOPIC TAGS: seismographic recording station, recorder modification

12,55
TRANSLATION: The number of recording channels was increased in the modernized station to 48. The layout employs two serial pickup arms placed opposite each other in such a manner that the heads are staggered. The PED-56 recording stylus in the facsimile block was replaced by a stream vibrator. An RNP nine-channel attachment model was added, as well as regulation of sensitivity by channel and change in channel polarity during reproduction. The time constant of the ERU unit was magnified and a capacity was added for its regulation by 0.4 sec. intervals over the range of 0.4 to 1.6 sec. The dynamic

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L- 63773-65

ACCESSION NR: AR5018962

regulation range of the ERU unit's field of action was increased to 20 decibels. FVCh filters were added to the recording function. A tuning fork generator, assembled with semiconductor triodes, was added to improve the rollability and performance stability of the synchronization system. The regulation and measurement system, as well as the blast point recording system, were modified. A transformer assembled with P-209 transistors was employed for the circuit feeding the anode circuits of the station. N. Voskoboynik.

SUB CODE: ES, EC

ENCL: 00

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Card 2/2

REVUTSKIY, Ye.L.; RYDEL'MAN, F.M.; SEMENCHUK, D.D. (Kiyev)

Study of proteins and mucoproteins of the gastric juice by paper
electrophoresis. Vrach.delo no.2:42-44 P '63. (MIRA 16:5)

1. Otdel klinicheskoy fiziologii Instituta fiziologii imeni
A.A. Bogomol'tsa AN UkrSSR.
(PAPER ELECTROPHORESIS) (PROTEINS) (GASTRIC JUICE)

The content of phosphorus compounds and the activity of adenosinetriphosphatase in cortical and medullary substances of the kidneys in experimental nephritis. F. M. Edel'man (Inst. Biochem., Acad. Sci. Ukr.S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 25, 193-204 (in Russian, 205) (1953).—In exptl. nephritis in rabbits, protein appeared in the urine from 0.5% on the 6th to 1.32-4.62 on the 7th day after the injection of the serum; the nonprotein N rose from av. 55 mg.% in normal animals to 75.4 mg.% at the height of the disease. The amt. of P compds., mg./g. of dry substance: av. total, acid-sol., inorg., easily hydrolyzable adenosinetriphosphate (ATP), nucleoprotein, and phosphatide, resp., in the kidney cortex of normal rabbits was 14.3, 5.1, 1.3, 0.43, 4.2, and 3.2; in diseased, 13.3, 5.0, 0.91, 0.69, 3.9, and 2.91; medullary tissue, normal, 11.2, 4.3, 1.23, 0.59, 4.1, and 2.2; diseased, 11.8, 4.8, 1.11, 0.69, 3.9, and 1.91. In the cortex P increased by 69%, and in the medulla by 20%, with the simultaneous decrease of inorg. P. Investigation of normal kidney tissues of cattle showed that the ATP-ase of both the water-sol. and the structural protein fraction behaved alike, indicating probable that there is only one phosphatase in the kidneys. In the early stages of nephritis in rabbits, ATP-ase activity dropped to approx. 59%; this activity returned to normal in the later stages. B. Gutoff

Nitrogen metabolism of the cortical and medullary substances of the kidney in experimental nephritis. P. M. Edel'man. *Ukrain. Biokhim. Zhur.* 25, 393-408 (in Russian, 1953).—Exptl. nephritis was produced in the rabbit by the serological method (CA 43, 7187c). Data were made of total N, nonprotein N, protein N, NH₄OH formation, glutaminase (I) activity and adenylate deaminase (II) activity. The total content of protein and nonprotein N in exptl. nephritis appears to be unchanged. The concentration of the medullary substance of the kidney is lowered. In the early and late stages of the disease the activity of I in the cortical substance of the kidney is increased by 45-70% but retains its normal level in the medullary substance. This points to an acceleration in formation of NH₄OH in the kidney tissue. II is found only in the water-soluble protein fraction and is not bound by the so-called structural proteins. The activity of II in the medullary substance of the kidney is low and it not to be regarded as a significant source of NH₄OH. The process of deamination of adenylate acid in exptl. nephritis remains undisturbed. p. 5. Leine

- Inst. Biochem
2. 11. 53

USSR/Human and Animal Physiology - Metabolism.

Abs Jour : Ref Zhur Biol., No 3, 1959, 12523

Author : Eydel'man, F.M.

Inst :

Title : Metabolism of Phosphorus Compounds in Cortical and Medullary Substances of the Kidney in Experimental Nephritis

Orig Pub : Ukr. biokhim. zh., Ukr. biokhim. zh., 1958, 30, No 2, 276-280

Abstract : Rabbits with experimental nephritis revealed a 1.5-fold lowering of the metabolic rate (MR) of the acid-soluble fraction of P (p32) in the cortical substance of the kidneys, and a 1.25-fold lowering in the medullary substance. The MR of the nucleoproteid and phosphatide fractions of P was practically unchanged. Inasmuch as the amount of ATP increases in the kidneys in experimental nephritis, and the activity of ATPase decreases

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BYDEL'MAN, F.M.

Cholinergic and adrenergic substances in the blood of patients with ulcers and chronic gastritis subjected to sleep therapy. Fiziol.zhur. [Ukr.] 5 no.3:373-379 My-Je '59. (MIRA 12:10)

1. Institut fiziologii im. O.O.Bogomol'tsya AN URSS, viddil klinichnoi fiziologii.

(SLEEP--THERAPEUTIC USE)

(STOMACH--DISEASES)

(ADRENALINE)

(CHOLINE)

EYDEL'MAN, F.M., kand.biologicheskikh nauk

Histamine content of the blood in peptic ulcer in connection with treatment. Vrach. delo no. 3:26-29 Mr '61. (MIRA 14:4)

1. Otdel klinicheskoy fiziologii (zav. - akademik AN USSR, deystvitel'nyy chlen AMN SSSR professor V.N. Ivanov) Instituta fiziologii AN USSR.

(PEPTIC ULCER) (HISTAMINE)

EYDEL'MAN, F.M.

Effect of atropine on the blood level of adrenaline and cholinesterase
in peptic ulcer and chronic gastritis. Fiziol. zhur. [ukr.] 8 no.5:676-
678 S-0 '62. (MIRA 17:11)

1. Otdel klinicheskoy fiziologii Instituta im. Bogomol'tsa AN UkrSSR,
Kiyev.

EYDEL'MAN, F.M., kand. biol. nauk

Histamine concentration in the blood, urine and stomach contents in anacid states. Vrach. delo no.12:127-128 D '63.
(MIRA 17:2)

1. Otdel klinicheskoy fiziologii (zav. - akademik AN UkrSSR, deystvitel'nyy chlen AMN SSSR V.N. Ivanov [deceased]) Instituta fiziologii im. A.A. Bogomol'tsa AN UkrSSR.

REVUTSKIY, Ye.L. [Revuts'kyi, IE.L.]; EYDEL'MAN, F.M. [Eidel'man, F.M.];
SEMENCHUK, D.D.

Proteins and mucoproteins of the gastric juice in various forms
of chronic gastritis. Fiziol. zhur. [Ukr.] 9 no.6:775-780 N-D '63.
(MIRA 17:8)

1. Otdel klinicheskoy fiziologii Instituta fiziologii im.
Bogomol'tsa AN UkrSSR, Kiyev.

EYDEL'MAN, F.M., kand. biolog. nauk (Kiyev)

Content of histamine in the blood, urine and stomach contents
in normal secretion, hypersecretion and hyposecretion of the
gastric glands. Klin. med. 41 no.6:101-105 Je '63.

(MIRA 17:1)

1. Iz otdela klinicheskoy fiziologii (zav. - akademik AN
UkrSSR deystvitel'nyy chlen AMN SSSR V.N. Ivanov [deceased])
Instituta fiziologii imeni A.A. Bogomol'tsa (dir. - akademik
AN UkrSSR A.F. Makarchenko) AN UkrSSR.

REVUTSKIY, Ye.L. [Revuts'kiy, YE.L.]; EYDEL'MAN, F.M.

Effect of 1 centimeter and 1 meter electromagnetic waves on the content of biologically active substances in human blood. Fiziol. zhur. [Ukr.] 10 no.3:379-383 My-Je '64. (MIRA 18:9)

1. Otdel klinicheskoy fiziologii Instituta fiziologii im. A.A.Bogomol'tsa AN UkrSSR, Kiyev.

L 10641-66 EWT(1)/FS(v)-3 DD

ACC NR: AP6000966

SOURCE CODE: UR/0286/65/000/022/0048/0048

INVENTOR: Cedevanishvili, D. M.; Eydel'man, G. I.

31
B

ORG: none

TITLE: Apparatus for modeling orientation reflexes. Class 30, No. 176367

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 48

TOPIC TAGS: orientation reflex, biological model, bionics, mathematical model

ABSTRACT: An Author Certificate has been issued for a unit which models the orientation reflexes of animals or humans; it consists of a sensing element, a temporary storage unit, and a time-constant unit. To compare each pair of input signals in continuous sequence with the stimuli and to obtain an error signal when there is a difference between paired signals, a permanent storage unit, a matching circuit, and a blocking element have been added. In a second variation of the above, to

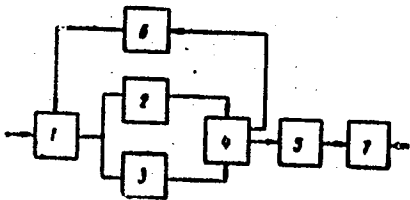


Fig. 1. Orientation reflex model

- 1 - Sensing element; 2 - temporary storage unit;
- 3 - permanent storage unit; 4 - comparator;
- 5 - blocking element; 6 - time-constant unit;
- 7 - pulse generator.

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UDC: 616.471:612.833

L 10641-66

ACC NR: AP6000966

obtain uniform pulses characteristic of the human or animal organ to be modeled,
a pulse generator controlled by a signal from the blocking element has been added
(see Fig. 1). Orig. art. has: 1 figure. [CD]

SUB CODE: 06/ SUBM DATE: 11Nov64/ ATD PRESS: 4169

HW
Card 2/2

~~BYDEL'MAN, G.R.~~; BELOV, Yu.N., redaktor; KRASIL'SHCHIK, S.I., redaktor;
TOKER, A.M., tekhnicheskiy redaktor

[Manual on safety measures for electricians working on cables]
Pamiatka po tekhnike bezopasnosti dlia elekromonterov po kabel'-
nym rabotam. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture,
1954. 46 p. (MIRA 8:3)
(Electric cables--Safety measures)

Eydelman, G. R.

EYDELMAN, G.R., inzhener; TYURIN, G.P., inzhener.

Wiring brick buildings without using conduits. Nov.tekh.i pered.
sp.v stroi. 19 no.10:22-23 0 '57. (MIRA 10:11)
(Electric wiring)

TYURIN, G., inzh.; EYDEL'MAN, G., inzh.

Pipeless installing of hidden electric wiring in brick houses.
Na stroi. Mosk. 1 no.6:19 Je '58. (MIRA 11:9)
(Electric wiring, Interior)

EYDEL'MAN, G., inzh; TYURIN, G., inzh.

Installing electric wiring during building. Ma stroi. Mosk. 1
no.11:11-12 N '58. (MIRA 11:12)
(Electric wiring)

EYDEL'MAN, I.

Improve the auditing of operations on financing capital
expenditures. Den. 1 kred. 20 no.11:59-61 N '62.
(MIRA 16:1)

1. Revizor pri Kiyevskoy oblastnoy kontore Gosbanka.

(Kiev Province--Agriculture--Auditing and inspection)
(Kiev Province--Banks and banking)

EYDEL'MAN, I.L., inzh.

Heating soil when laying gas networks. Stroi. truboprov. 7 no.6:21
Je '62. (MIRA 15:7)

1. Trest No.24 Ministerstva stroitel'stva BSSR, Minsk.
(Soil heating) (Gas pipes)

NOSOVITSKAYA, S.A.; EYDEL'MAN, K.L.; DOLYA, L.V.

Some methods to improve utilization of the industrial capacity
of tablet plants. Med. prom. 17 no.6:17-19 Ju'63 (MIRA 17:4)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevtiches-
kiy institut.

AUTHORS: Vul', A.A., Eydel'man, L.A., Engineers SOV-117-58-8-14/28

TITLE: The Cutting of Pipes by Turning Rollers (Rezaniye trub vrashchayushchimisya rolikami)

PERIODICAL: Mashinostroitel', 1958, Nr 8, pp 33-34 (USSR)

ABSTRACT: Turning disc rollers (Figure 1) are used for cutting copper and copper-nickel pipes in order to avoid losses of material. The rollers are made from steel R9, R10, or from the alloyed steel KhVG. The roller is held in a special holder. The pipe is fastened by a pneumatic clamp chuck. The speed of cutting is 160 m/min. The new method increases the productivity 2.5 times. Losses of material have been cut; in every ton of cut pipes, 215 kg of metal are saved. There are 3 diagrams.

1. Cutting tools - Performance
2. Copper pipes - Cutting
3. Copper-nickel pipes - Cutting

Card 1/1

SOV/121-58-9-16/21

AUTHORS: Gershanov, Ye.A. and Eydel'man, L.A.

TITLE: The Cutting of Right- and Left-hand Threads Without Exchange of Master (Narezaniye pravyykh i levyykh rez'b bez smeny kopira)

PERIODICAL: Stanki i Instrument, 1958, Nr 9, p 40 (USSR)

ABSTRACT: Reference is made to a thread-cutting attachment for engine lathes (described in Stanki i Instrument, 1948, nr 10). The kinematic diagram of the attachment is reproduced and the incorporation of a reversing mechanism is shown in principle. This mechanism permits cutting of both right- and left-hand threads with the same master thread. There is 1 figure.

Card 1/1

EYDEL'MAN, L.G. [translator]

Characteristics of scintillators. R.K.Swank. (From: Annual Review of Nuclear Science, 4 111, 1954). Usp.fiz.nauk 58 no.3:519-553 Mr '56.
(Scintillation counters) (MIRA 9:7)

84123

26.2246

S/O70/60/005/005/01C/017
E132/E360

AUTHORS: Dobrovinskaya, Ye.R. and Eydel'man, L.G.

TITLE: The Influence of the Crystallisation Conditions on the Distribution of Thallium in Single Crystals of Sodium Iodide

PERIODICAL: Kristallografiya, 1960, Vol. 5, No. 5.
pp. 770 - 774

TEXT: The resolving power (in terms of energy) for γ -rays of scintillation counters of NaI (Tl) is strongly influenced by the distribution of the activator in the crystal. For obtaining the highest resolving power it is necessary to arrange that the concentration of the activator increases steadily with the height of the crystal and from the centre line to the outside. The scintillating efficiency should rise to compensate for the distance of the scintillating region from the photocathode. Pfann (Trans. Amer. Inst. Mining Met. Eng., Vol. 194, 747, 1952) first solved the problem of the distribution of the impurities in the controlled crystallisation at a constant rate with the assumption of complete mixing in the liquid phase and no diffusion in the solid phase. A number of experiments showed the relation
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84123

S/070/60/005/005/010/017
E132/E360

The Influence of the Crystallisation Conditions on the Distribution of Thallium in Single Crystals of Sodium Iodide

obtained to be a satisfactory representation of the situations observed. The coefficient of diffusion in the solid crystal is in fact negligible. The transport of material in the liquid phase takes place by diffusion and by convection mixing. As the coefficient of diffusion of impurities in the liquid is small (10^{-5} to 10^{-4} $\text{cm}^2/\text{sec}^{-1}$) the correspondence of Pfann's equation with reality must be due to the presence of convective mixing in the liquid phase. In the methods of controlled crystallisation due to Obreimov-Shubnikov and to Stockbarger, there is a temperature gradient which is positive upwards and convection can take place only if the isothermal surface of the liquid (the crystallisation surface) is curved. The present experiments are studies of the distribution of impurities (Tl) in NaI crystals grown under different conditions of impurity transport in the liquid phase. Diaphragms are used to control the temperature gradient. The rapid growth conditions used result in the sharp increase in the concentration of gas-like impurities dissolved in the

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E132/E360

The Influence of the Crystallisation Conditions on the Distribution of Thallium in Single Crystals of Sodium Iodide

liquid immediately in front of the surface of crystallisation. As a result of the increase in their solubility limit in the liquid phase, intense separation of the gas phase takes place at all interfaces. The observed distribution of the activator along the axis of the crystal for the case of convex isothermal surfaces is plotted. The distribution of activator across the crystal has been measured for various growth conditions and good agreement with the theoretical distribution is obtained. The concentration at the outside of the crystal can be made up to 50% greater than that at the axis by choosing the proper conditions and this is the situation desirable for scintillator crystals. Acknowledgments are expressed to A.M. Bulgakova, A.M. Volkova, R.A. Geits and L.I. Afanasiadi.

There are 5 figures, 9 references: 7 Soviet and 2 English.

Card 3/4

84123

S/070/60/005/005/010/017
E132/E360

The Influence of the Crystallisation Conditions on the Distribution
of Thallium in Single Crystals of Sodium Iodide

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
khimicheskikh reaktivov Khar'kovskiy filial
(All-Union Scientific Research Institute for
Chemical Reagents, Khar'kov Branch)

SUBMITTED: November 30, 1959

X

Card 4/4

30328

S/185/61/006/005/004/019
D274/D303

9.6150
216000

AUTHORS: Dobrovins'ka, O.R., Mokhir, O.P., and Eydel'man, L.H.

TITLE: On factors influencing the resolving power of a NaI(Tl) scintillation-counter

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 5, 1961,
608 - 612

TEXT: The dependence of spectrometric properties of a scintillation counter (with NaI(Tl) single crystals) on activator distribution was experimentally studied. A theoretical investigation of the distribution of the coefficient of light-collection, showed that optimum resolving power can be achieved by irregular distribution of the activator along the crystal; thereby the decrease in light collection is compensated by increasing scintillation efficiency; (Ref. 6: L.S. Kukushkin, A.M. Ratner, ZhTF, 28, 345, 1958) (Ref. 7: ZhTF, 28, 1121, 1958). The present study experimentally confirmed the above conclusion. The NaI(Tl) single-crystals were grown by Stockbarger's method (Ref. 8: Rev. Sci. Instr., 7, 133, 1936). The dependence of the resolving power on the spread of the
Card 1/4

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S/185/61/006/005/004/019
D274/D303

On factors influencing the ...

light output in the specimen, was investigated by irradiating the single crystal with a collimated gamma-ray beam. By this method, the vertical distribution of the light output was measured in crystals of roughly similar transmittance, with varied activator-concentration; this corresponds to varying scintillation efficiency along the crystal axis. A figure shows the scintillation efficiency η plotted against the activator concentration c . Other figures show the light output V vs. height z , for various concentrations of activator. The spread of the light output along z was lowest for crystals with a thallium content of 0.15-0.18 %. It is evident from the figures that with an appropriate choice of initial activator-concentration C_0 , and a distribution of the concentration (in the crystal) according to the equation

$$C = C_0 g \left(1 - \frac{V}{V_0}\right)^{g-1}, \quad (1)$$

a nearly optimal distribution of scintillation efficiency can be obtained; (C is the concentration of the admixture in the solid phase, V - volume of solid phase, V_0 - total volume of crystal).

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On factors influencing the ...

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S/185/61/006/005/004/019
D274/D303

The nature of the treatment of the reflecting surfaces influences, too, the scintillation efficiency. Thus, unpolished crystal-surfaces lead to a greater spread of light output than polished surfaces. Hence the optimum activator-concentration ought to be greater in crystals with unpolished surfaces than in polished ones. As the growing of the single-crystals involves high-temperature annealing, the influence of the latter was investigated. It was found that the annealing (at 630-640°C) led to a decrease in the resolving power (by 4 - 5 %). It is concluded that optimum scintillation efficiency can be achieved by growing the single crystals by Stockbarger's method. High-temperature annealing leads to a redistribution of light output, hence to a deterioration of spectro-metric properties. There are 4 figures and 11 references: 7 Soviet bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: A. Harshow, U.C. Kremers, E.C. Stewart, E.K. Warburton, I.O. Hay, Atomic Energy Commission Report NYO 1977, 1952; Donal C. Stockbarger, Rev. Sci. Instr., 7, 133, 1936; W.G. Pfann, Trans. Am. Inst. Mining Met. Engrs., 194, 747, 1952.

Card 3/4

30328

On factors influencing the ...

S/185/61/006/005/004/019
274/D303

ASSOCIATION: Vsesoyuznyy naukovo-doslidnyy instytut khimichnykh reaktiviv Kharkivs'kyy filial (All-Union Scientific Research Institute of Chemical Reagents, Kharkiv Branch)

SUBMITTED: October 31, 1960

✓

Card 4/4

DOBROVINSKAYA, Ye.R.; MOKHIR, Ye.P.; EYDEL'MAN, L.G.

Some factors affecting the energy resolution of NaI(Tl) crystal
scintillation counters. Ukr. fiz. zhur. 6 no.5:608-613 S-0 '61.
(MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh
reaktivov, Khar'kovskiy filial.
(Scintillation counters)

L 43588-65 EWT(1)/EWT(m)/T/EEC(b)-2/EWP(t)/EWP(b)/EWA(c) P1-4 IJP(c)

JD/GG
ACCESSION NR: AT5009573

Z/0000/G2/000/000/0065/0067

40
271

AUTHOR: Tobrovinskaya, Ye. R.; Zakharin, Ya. A.; Mokhir, Ye. P.; Eydel'man, L. G.

TITLE: Some factors affecting the energy resolution of scintillation single crystals

SOURCE: Konferentsiya o monokristalakh. 4th, Turnov, 1961. Sbornik referatov. Turnov, VUM, 1962, 65-67

TOPIC TAGS: single crystal, scintillation counter, energy resolution, alkali halide crystal, scintillation activator, thallium activator, sodium iodide, Gamma radiation

ABSTRACT: It has been suggested that the resolution of a scintillation crystal can be improved by a nonuniform introduction of the activator during the growth of the crystal, i. e., by compensating the decrease in the light-collection coefficient with an increase in the scintillation efficiency. An experimental check of this hypothesis was carried out with NaI (Tl) single crystals 40 mm in diameter and 40 mm high grown by D. Stockbarger's method. To study the resolution as a function of the light yield distribution in the volume of the samples and along their height, the crystals were irradiated with collimated gamma rays. A single-channel analyzer with an FEU-13 photocathode was employed. The above hypothesis was confirmed by the results. In addition, the influence of copper, nickel, and lead impurities on the scintillation properties was investigated. The main cause of the

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L 43588-65

ACCESSION NR: AT5009573

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drop in the light yield of NaI (Tl) crystals containing Cu was a decrease in the transparency of the samples to the self-radiation of thallium and the competition between Tl^+ and Cu^+ ions for the absorption of incident radiation. Annealing of the NaI (Tl) crystals for 100 hr at 630-640C was found to increase the distribution of the light yield along the height of the samples. "In conclusion, the authors thank A. M. Ratner for valuable advice."
Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov, Khar'kov
(All-Union Scientific Research Institute of Single Crystals)

SUBMITTED: 00

ENCL: 00

SUB CODE: OP, IC

NO REF SOV: 006

OTHER: 003

B/S

Card

2/2

L 13002-65 EPA(s)-2/EWT(m)/EWP(t)/EWP(b) Pt-10 JD/JG
ACCESSION NR: AR4046007 S/0058/64/000/007/E028/E029

SOURCE: Ref. zh. Fizika, Abs. 7E212 B

AUTHORS: Zakharin, Ya. A.; Kulik, I. O./Madikyan, E. M./Popova, M. A./Eydel'man, L. G.

TITLE: Growing of large NaI(Tl) and CsI(Tl) single crystals 18

CITED SOURCE: Sb. Stsintillyatory* 1 ²⁷st²⁷stintillyats. materialy*.
Khar'kov, Khar'kovsk. un-t, 1963, 13-17

TOPIC TAGS: activated crystal, single crystal, scintillator,
crystal growth, crystal imperfection

TRANSLATION: The Stockbarger method is used to develop equipment and a procedure for obtaining single crystals of NaI(Tl) (I) and CsI(Tl) (II) of large dimensions (diameters 200 and 100 mm, respectively). An oven system is described, which ensures temperature stability within the working volume of the oven accurate to 0.1 -- 0.15% , and which makes it possible to obtain crystals free of macroscopic defects. The single crystals were grown in quartz ampoules

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ACCESSION NR: AR4046007

suspended in the oven to prevent deformation of the phase separation boundaries at the place of contact with the oven, and to prevent formation of parasitic crystallization nuclei resulting from the increased heat transfer. The formation of parasitic nuclei in II is influenced by the aperture angle of the ampoule cone. The annealing regime and the lowering of the temperature to room temperature during the growth of single crystals I and II are discussed. For I the annealing time was 10--14 days; crystals II, which are plastic down to room temperature, required no prolonged annealing. L. Yerman.

SUB CODE: SS

ENCL: 00

Card 2/2

ACCESSION NR: AR4040813

S/0058/64/000/005/A038/A039

SOURCE: Ref. zh. Fizika, Abs. 5A316

AUTHOR: Dobrovinskaya, Ye. R.; Mokhir, Ye. P.; Eydel'man, L. G.

TITLE: Investigation of factors affecting the energy resolution of scintillation counters with NaI(Tl) crystal

CITED SOURCE: Sb. Stsintillyatory* i stsintillyats. materialy*. Khar'kov, Khar'kovsk. un-t, 1963, 90-94

TOPIC TAGS: scintillation counter, single crystal, energy resolution, activator

TRANSLATION: The dependence of the spectrometric properties of a scintillation counter on the distribution of activator in a NaI(Tl) single crystal was experimentally investigated. The influence of high-temperature annealing of crystal on the energy resolution was also studied. It is shown that for improvement of resolving power it is necessary to have in the NaI(Tl) crystal nonuniform distribution of concentration of activator, ensuring increase of scintillation effectiveness with distance from the photocathode of the photoelectric multiplier. Optimum, from the

Card 1/2

ACCESSION NR: AR4040813

point of view of spectrometric properties, distribution of scintillation effectiveness can be obtained by growing single crystals according to the Stockbarger method under conditions of convection mixing of melt. It was determined that in process of high-temperature annealing there occurs redistribution of relative luminescence yield in volume of crystals, which leads to lowering of the spectrometric properties.

SUB CODE: OP, SS

ENCL: 00

Card 2/2

L 10712-65 EWT(m)/EWP(b) AFWL/ESD(t) JD

ACCESSION NR: AP4046638 S/0181/64/006/010/3156/3157

AUTHOR: Zaslavskaya, V. Ya.; Itskovich, R. Ia.; Eydel'man, L. G. *B*

TITLE: Detection of dislocations in NaI(Tl) single crystals *4*

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3156-3157

TOPIC TAGS: sodium iodide crystal, thallium activated crystal, single crystal, crystal dislocation, scintillator crystal, crystal etching, etching formulation

ABSTRACT: Various etching formulations for evaluating the dislocation concentration in thallium-activated sodium iodide scintillator crystals have been tested as a means of studying improvements in crystal resolution power known to be adversely affected by dislocations. The most satisfactory formulation was found to be glacial acetic acid saturated with zinc oxide and anhydrous copper sulfate. A typical etching figure showed various types of dislocations and internal boundaries. A sharp structural difference was revealed between crystals grown by the Kyropulos and the Stockbarger methods. *Orig. article has: 1 figure.*

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L 10712-65

ACCESSION NR: AP4046638

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
monokristallov, Kharkov (All-Union Scientific Research Institute of
Single Crystals)

SUBMITTED: 11May64

ATD PRESS: 3115

ENCL: 00

SUB CODE: SS

NO REV SOV: 002

OTHER: 003

Card 2/2

ACC NR: AF7005317

SOURCE CODE: UR/01B1/67/009/001/0013/0020

AUTHOR: Eydcl'man, I. G.

ORG: All Union Scientific Research Institute of Single Crystals, Khar'kov (Vse-soyuznyy nauchno-issledovatel'skiy institut monokristallov)

TITLE: Block boundaries in sodium-chloride single crystals grown from the melt

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 13-20

TOPIC TAGS: sodium chloride, single crystal growing, crystal orientation, crystal surface, *MOLTEN MERM*

ABSTRACT: The author attempts to obtain a quantitative estimate for the system of small-angle boundaries, which are used in metallography but have not yet been employed for the analysis of single crystals, and presents certain results obtained with the aid of this method in an investigation of the morphology of the sub-boundaries in single crystals grown from the melt. The crystals were grown in the form of cylinders of diameter not smaller than 40 mm by a method described earlier (in: Rost kristallov [Crystal Growth], Vol VI, p. 165, Nauka, 1965), which makes it possible to obtain a specified cross section of the growing ingot and to control the growth rate and the axial temperature gradient near the separation boundary between the solid and liquid phases. The tests consisted of measuring the preferred orientation and the specific surface area of the small-angle dislocation sub-boundaries in the single crystals, both freshly grown and annealed near the melting point. The dislocation structure

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ACC NR: AP7005317

was obtained by etching and photography. The subboundary areas were calculated by an approximate method, used in metallography, which is briefly reviewed in the paper. In freshly grown crystals, the sub-boundaries form a linearly oriented system of surfaces with an orientation axis coinciding with the growth direction, regardless of the crystallographic orientation of the primer. After high-temperature annealing, realignment takes place in the crystal, causing the system of boundaries to become more isometric. The results indicate that the boundaries "inherited" by the growing crystal play an important role in the formation of its real structure. The author thanks M. V. Gladkikh for analyzing the boundaries of the blocks in the single crystals, and I. V. Smushkov for useful advice and a discussion of the results. Orig. art. has: 5 figures, 5 formulas, and 1 table.

SUB CODE: 20, // /SUBM DATE: 15Apr66/ ORIG REF:. 005/ OTH REF: 003

Card 2/2

DALEVSKIY, A.L. [Dalevs'kyi, A.L.]; EYDEL'MAN, I.S.; SHAPIRSHTEYN, Ya.A.;
KHINKIS, M.V.

Programmed proportioning apparatus for explosive and aggressive
liquid substances. Khim. prom. [Ukr.] no.1:76-77 Ja-Mr '65.
(MIRA 18:4)

BYDEL'MAN, L. Ya., inzhener.

Principles of interurban automatic telephone systems. Vest. aviatsii
7 no.7:14-15 J1 '47. (MIRA 9:1)
(Telephone, Automatic)

EYDEL'MAN, L Ya , comp.

Anglo-Russkiy Slovar Po Provodnoy Svyazi. Moskva,
Gos. Izd-vo Tekhniko Teoreticheskoy Lit., 1951.

711 p. 13 cm.

Added title page in English: English-Russian wire
communication dictionary.

EYDEL'MAN, L. Ya. , Engineer, Scientific Worker, TSNIIS

"Sets of Relays for Twin-Conductor Capacitor-Type Connecting Lines"

Vestnik Svyazi No 4, 1954, Moscow, pages 3-7
Translation M-1315, 19 Nov 56

EYDEL'MAN, L. YA.

EYDEL'MAN, L. YA.: "Investigation of the assymetry of supply bridges for telephone stations." Min Communications USSR. Moscow Electrical Engineering Inst of Communications. Moscow, 1956. (Dissertations for the Degree of Candidate in Technical Sciences).

SO: Knizhnays Letopis' No. 22, 1956

СУДЕБНОМ Л. УА.

А. И. Миданов

Метод расчета неустойчивости колебаний без демпфирования в цепи индуктивно-емкостной системы

В. Ф. Голышев

Параметрические колебания в цепи с нелинейными параметрами

А. А. Бронин

Расчет амплитудной характеристики автоматического регулятора частоты

Р. Г. Баранов

Расчет параметров колебательной цепи автоматического регулятора

12 июня
(с 10 до 16 часов)

С. И. Лавров

И. С. Степанов

Распространение волн в системе с движущимся элементом

48

А. Д. Фомин

А. Р. Яков

Опыт в параметрических колебаниях в цепи СВЧ-тракта

В. В. Гузиков

Область тороидальной индуктивности в цепи СВЧ-тракта

А. Г. Константинов

Влияние нелинейности на устойчивость колебаний в цепи СВЧ-тракта

12 июня
(с 18 до 22 часов)

А. В. Селев

Практические методы измерения параметров СВЧ-тракта

А. Т. Ким

Влияние нелинейности на устойчивость колебаний в цепи СВЧ-тракта

В. А. Баранов

Исследование параметров колебаний в цепи СВЧ-тракта

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report submitted for the Commercial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications in A. S. Popov (VSEI), Moscow, 6-12 June, 1959

LIYK, Rol'f Vladimirovich; ROYTENBERG, Yefim Mikhaylovich; EYDEL'MAN,
L.Ya., otv.red.; KIRILLOV, L.M., red.; SHEFER, G.I., tekhn.red.

[~~ATS-54~~ automatic ten-step telephone exchange] Avtomaticheskaya
telefonnaya stantsiya dekadno-shagovoi sistemy ATS-54. Moskva,
Gos.isd-vo lit-ry po voprosam svyazi i radio, 1959. 112 p.
(MIRA 13:4)

(Telephone, Automatic)

EYDEL'MAN, Lev Yakovlevich; STOYANOV, M.N., otv.red.; BALAKIREV, A.F.,
red.; SLUTSKIN, A.A., tekhn.red.

[Asymmetry of the power supply bridges of telephone stations]
Asimetriia pitaiushchikh mostov telefonnykh stantsii. Moskva,
Sviaz'izdat, 1962. 121 p. (MIRA 15:4)
(Telephone stations)
(Electric power supply to apparatus)

EYDEL'MAN, L.Ya.

Method for uncoupling inductive couplings without changing the
configuration and number of circuit elements. Elektrosviaz' 17
no.7:52-62 J1 '63. (MIRA 16:9)
(Electric networks) (Equivalent circuits)

EYDEL'MAN, Lev Yakovlevich; SASONKO, Samuil Markovich; GRIGOR'YEV,
G.L., otv. red.; ULANOVSKAYA, N.M., red.

[Numeration of the subscribers to the automated telephone
network of the Soviet Union] Numeratsiia abonentov na avto-
matizirovannoi telefonnoi seti Sovetskogo Soiuz. Moskva,
Sviaz', 1964. 72 p. (MIRA 17:8)

EYDEL'MAN, M.

Interbranch balance of the national product and its economic
nature. Vop. ekon. no.10:61-74 0 '61. (MIRA 14:10)
(Gross national product)

EYDEL'MAN, M.

The interbranch balance of labor expenditures and its economic
significance. Sots. trud 8 no.2:12-23 F '63. (MIRA 16:2)
(Productivity accounting)

EJDELMAN, M. [Eydel'man, M.]

The first input-output analysis of the labor inputs in the
Soviet Union. Stat svezhe 41 no.5:485-495 My '63.