

KAPLUN, V.A.; BABKIN, N.I.; GORYACHEV, B.G.

Shielding properties of wire grids at microwave frequencies. Radiotekh.
i elektron. 9 no.9:1723-1724 S '64. (MIRA 17:10)

1. BABKIN, N. N.
2. USSR (600)
4. Horses
7. Horse breeding section of the "Krasnyi Oktiabr'" Collective Farm. Konevodstvo 23 no. 1 1953.

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

BABKIN, N.N., inzh.

Some investigations of the coefficient of fan regulation C_{fr} .

Izv.vys.ucheb.zav.; gor.zhur. no.1:69-82 '60.

(MIRA 13:6)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni
gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy
rudnichnoy ventilyatsii.

(Mine ventilation)

BABKIN, N.H., inzh.

Effect of external leakage on air feed to mines and the specific power consumption. Izv. vys. ucheb. zav.; gor. zhur. no.9: 67-74 '60. (MIRA 13:9)

1. Leningradskiy ordenà Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut im. G.V. Plekhanova. Rekomend. kafedroy rudnichnoy ventilyatsii i tekhniki bezopasnosti. (Mine ventilation)

BABKIN, N.N., inzh.

Evaluating the economy of the ventilation of an operating mine.
Izv. vys. ucheb. zav.; gor. zhur. no.10:67-72 '60. (MIRA 13:11)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni
gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy
rudnichnoy ventilyatsii i tekhniki bezopasnosti Leningradskogo
gornogo instituta.

(Mine ventilation--Costs)

BABKIN, N. N., Cand Tech Sci -- "Comparison between planned and ^g actual ^{ventilation} parameters of coal mines for the purpose of improving the quality of planning." Dnepropetrovsk, 1961. (Min of Higher and Sec Spec Ed UkSSR. Dnepropetrovsk Order of Labor Red Banner Min Inst im Artem). (KL, 8-61, 241)

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BABKIN, N.N.; GREBENSHCHIKOV, L.S.; ZHALIN, N.I.; PROKHOROVA, T.I.;
LYAPUNOV, Yu.A.; LOBAZOV, P.A.

Overall dust removal from the atmosphere of the Berezovskiy
Mine. Gor. zhur. no.5:61-63 My '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy gornometallurgicheskiy
institut tsvetnykh metallov (for Babkin, Grebenshchikov, Zhalin,
Prokhorova). 2. Berezovskiy rudnik, KazSSR (for Lyapunov,
Lobazov).

ACC NR: AP6029062

SOURCE CODE: UR/0413/66/000/014/0100/0101

INVENTOR: Razumovskiy, A. F.; Babkin, N. V.

ORG: None

TITLE: An ultrasonic inspection head with depth scanning of the focal spot. Class 42. No. 184000

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 100-101

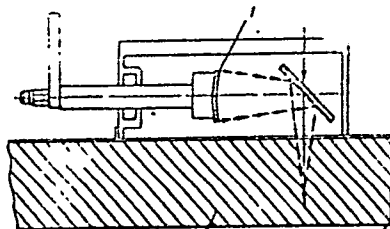
TOPIC TAGS: ultrasonic inspection, piezoelectric transducer

ABSTRACT: This Author's Certificate introduces an ultrasonic inspection head with depth scanning of the focal spot. The unit may be used in the contact or immersion modification. The instrument contains a focusing piezoelectric element and a hollow reflecting mirror which may be set at any angle to the surface in contact with the article being inspected. The focusing piezoelectric element-emitter may be moved parallel to the plane in contact with the article for scanning of the focal spot with respect to depth.

Card 1/2

UDC: 620.179.16

ACC NR: AP6029062



1—piezoelectric element; 2—article

SUB CODE: 13~~90~~/SUBM DATE: 30Jul65

Card 2/2

PHASE I BOOK EXPLOITATION SOV/3528

Moscow. Dom nauchno-tekhnicheskoy propagandy
Primeneniye ultrazvuka v promyshlennosti: sbornik statey (in-
dustrial Use of Ultrasound; Collection of Articles) Moscow,
Mashizt, 1959. 301 p. 8,000 copies printed.
Sponsoring Agency: Obshchestvo po rasprostraneniyu politicheskikh
i nauchnykh znaniy RSPSR.

Ed. (title page): V.P. Kozlov, Doctor of Physical and Mathematical
Sciences, Professor; Ed. (inside book): G.P. Shchegolev, Engineer;
Tech. Ed.: V.D. El'kind, Managing Ed.: Literature on Machinery
and Instrument Manufacturing (Mashizt); N.V. Pokrovskiy, Engineer.
PURPOSE: This book is intended for engineers and technicians engaged
in the application of ultrasonics in machinery manufacture and in
other branches of industry.

COVERAGE: This is a collection of papers read at the first all-
Union conference on the use of ultrasonics in industry. Attention
is focused mainly on the description of ultrasonic equipment and
on the use of ultrasound for the machining of hard materials and
for flaw detection. The effect of ultrasound on mechanical
tension processes is also discussed. No personalities are mentioned.
References accompany many of the papers.

Kitygorodskiy, Yu.I., Engineer; and M.G. Kozan, Candidate of
Technical Sciences. Ultrasonic Equipment for Industrial Applica-
tions 64

Makarov, M.I., Candidate of Technical Sciences, Dozent.
and Construction of Vibrators for Ultrasonic Machining 77

Bulycheva, I.N., Candidate of Technical Sciences; Ye.I. Gurvich,
Candidate of Technical Sciences; and Ye.P. Selitskiy, Candidate
of Technical Sciences. Magnetic Alloys for Ultrasonic Applica-
tions 91

Makarov, I.O., Engineer. Methods of Making Design Calculations
for Bar-Type Exponential Ultrasonic Concentrators 102

Golyamina, I.P. Use of Ferrites as Ultrasonic-Wave Radiators 115

Semenikov, Yu.B., Engineer. Method of Transforming Input Resis-
tance of a T-Bar Radiator 125

Sirotyuk, M.G., Engineer. Matching a Generator of Electric
Oscillations With a Quartz Radiator Directly Connected With the
Generator Circuit 129

Lysinin, B.N., Engineer. Characteristics of the Ultrasonic Machin-
ing of Metals 136

Pisarskiy, M.M., Candidate of Technical Sciences; and A.A.
Luznyy, Experience Gained at the Leningradskiy Metallicheskiy
Zavod (Leningrad Metal-Products Plant) in the Ultrasonic
Drilling of Holes in Quartz Plates 146

D'yachenko, P.Ye., Doctor of Technical Sciences, Professor; Yu.
N. Mirokhi, Engineer; and V.G. Aver'yanov. Some Problems in the
Ultrasonic Machining of Materials 149

Tsunin, I.I., Candidate of Physical and Mathematical Sciences.
Effect of Elastic Vibrations on the Crystallization and Processing
Properties of Alloys 163

Bagdasary, Kh.S., Candidate of Chemical Sciences. Effect of
Ultrasonic Vibrations on the Process of Crystallization 175

Shrayber, D.S., Candidate of Technical Sciences. Ultrasonic
Flaw Detection 184

Yermolay, I.N., Engineer. Ultrasonic Instruments Developed by
TENTIMASH for the Measurement of Thickness and Product Control 211

Gubanova, M.R., Candidate of Technical Sciences. Ultrasonic De-
tection of Flaws in Massive Welds 223

Yegorov, N.N., Ultrasonic Inspection of Case Depth in Electrically
Hardened Steel Products 240

Rabdin, N.Y., Engineer. Design of Piezoelectric Transducers for
Ultrasonic Flaw Detectors 253

POPOVA, N.M.; PLATONOVA, A.F.; BABKIN, N.V.; GOLODAYEV, B.G.

Isolation of carbides by anodic dissolution of steel with the use
of superposed alternating current. Zav.lab. 27 no.10:1190-1192
'61. (MIRA 14:10)

(Carbides) (Steel) (Electrochemistry)

VOIN, M.I.; BABKIN, N.Ya.

Effect of fractured structures on the morphology of ore bodies
in the Sofiyevka sector of the Nikitovka mercury deposit in the
Donets Basin. Izv.vys.ucheb.zav.; geol. i razv. 1 no.6:122
Je '58. (MIRA 13:2)

(Donets Basin---Ore deposits)

BABIN, P.F.

Reasons for the raised level of ground waters in populated places. Trudy VSEGINGEO no.10:191-193 '64.

(MIRA 17:10)

1. Volgogradskaya opolznevaya stantsiya.

BABKIN, P.S.

Jaw-rotating reflex of the head in infants. Zh. nevropat. psikhiat.,
Moskva 53 no.9:692-696 Sept 1953. (GIML 25:4)

1. Department of Nervous Diseases of Krasnoyarsk Medical Institute.

BABKIN, P.S.

Physiological nasolabial reflex in children. *Pediatrics* no.5:
64-65 S-0 '54. (MIRA 7:12)

1. Iz kafedry nervnykh bolezney (zav.prof. R.A.Shakhnovich)
Krasnoyarskogo meditsinskogo instituta.

(REFLEX,

nasolabial, labial protrusion response to nasal percussion
in child.)

(NOSE, physiology,

nasolabial reflex in child., labial protrusion response
to nasal percussion)

(LIPS, physiology,

nasolabial reflex in child., labial protrusion response
to nasal percussion)

B'EKIN, P. S.

BABKIN, P. S.: "The dynamics of certain reflexes in the face and reflexes of head movement in nursing children." Leningrad State Order of Lenin Inst for the Advanced Training of Physicians imeni S. M. Kirov. Krasnodarsk, 1956. (Dissertation for the Degree of Candidate in Medical Science.)

Knizhnaya letopis', No. 30, 1956. Moscow.

EXCERPTA MEDICA Sec7 Vol. 11/ 10 Paediatrics Oct 57

2591. BABKIN P.S. *A reflex manifest in babies during the first months of life (Russian text) Ž. NEVROPAT. PSUKHIAT. (Mosk.) 1956, 56/1 (22-25) Illus. 1

If we move the arms of newborn babies sideways, upwards or downwards, most of them respond to these movements by opening their mouths simultaneously. The movements of arms reflexly induce the dropping of the lower jaw. From 260 babies only 4 failed to react in this way. The reflex is more pronounced in prematurely born babies than in those born at term and becomes extinct in the first few months of their lives. It was not discovered in any of 117 babies that were under examination at the age of 3 to 12 months. Following the same principle new reactions very similar to this one come into existence.

Hádlík - Brno (VIII, 2, 7)

Kafedra nervnykh bolezney (zar. prof. R.A. Shakhnovich) i Kafedra normal'noy fiziologii (zar. prof. A.T. Pshonik) Kraenoyarskogo meditsinskogo instituta.

BABKIN, P.S.

Median facial reflex in newborn infants. Zhur.nevr. i psikh. 57 no.1:
30-33 '57. (MIRA 10:3)

1. Kafedra nervnykh bolezney (zav. - prof. R.A.Shakhnovich) i
kafedra normal'noy fiziologii (zav. - prof. A.T.Pshonik) Krasnoyarskogo
meditsinskogo instituta.

(REFLEX

median facial in young inf.)

USSR / Human and Animal Physiology. Growth Physiology.

T

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 69734

Author : ~~Babkin, P. S.~~

* Inst : ~~Not given~~

Title : The Physiologic Rostellar Rooting Reflex Phenomenon in Children

Orig Pub : Zh. Nevropat. i Psikhatrii, 1957, Vol 57, No 7, 860-864

Abstract : Studies were made of 498 children ranging in age from birth to fourteen days (106 of them were studied several times during the first year of life). In the first 15 days, the reflex was clearly demonstrated. By the end of the third month the reflex had disappeared in the majority of children, and had disappeared in all by the end of the fourth month. Only in the fifth month was this reflex of clinical diagnostic importance, indicating a weakening of cortical influence on the reflex apparatus of the trunk

Card 1/2

* КАФЕДРА НЕРВНЫХ БОЛЕЗНЕЙ (ЗАВ. — ПРОФ. Р. А. ШАХАНОВИЧ) И
КАФЕДРА НОРМАЛЬНОЙ ФИЗИОЛОГИИ (ЗАВ. — ПРОФ. А. Т. ПШОНИК)
КРАСНОЯРСКОГО МЕДИЦИНСКОГО ИНСТИТУТА.

BABKIN, P.S.

Some reflex phenomena in nursing infants in the light of teaching on dominance [with summary in English]. *Pediatrriia* 36 no.6:8-10
Je '58 (MIRA 11:6)

1. Iz kafedry normal'noy fiziologii (sav. - prof. A.T. Pshonik)
Krasnoyarskogo meditsinskogo instituta (dir. - P.G. Podzolkov).

(REFLEXES,

dominant, in nursing inf. (Rus))

(INFANT

dominant reflexes in nursing inf. (Rus))

MARIN, P.S.

Early postnatal establishment of reflex activity in man. *Fiziol.*
zhur. 44 no.10:922-927 0 '58 (MIRA 12:1)

1. From the Medical Institute, Krasnodar.
(REFLEXES,

determ. of reflex activity in new born inf. (Rus))
(INFANTS, (NEWBORN), *physiol.*
determ of reflex activity (Rus))

BABKIN, B.S., kand.med.nauk

Palm reflex in human ontogenesis. Vop.okh.mat.i det. 5 no.4:
64-66 J1-Ag '60. (MIRA 13:7)

1. Iz kafedry nervnykh bolezney (zav. - dotsent L.M. Shendero-
vich) Krasnoyarskogo meditsinskogo instituta (dir. - dotsent
P.G. Podsolkov, nauchnyy konsul'tant - deystvitel'nyy chlen
AMN SSSR prof. S.N. Davidenkov).
(REFLEXES)

BABKIN, P.S.

Ontogenetic asymmetry of the planter reflex in man. Zhur.nevr.i
psikh. 60 no.9:1126-1130 '60. (MIRA 14:1)

1. Kafedra nervnykh bolezney (zav. - prof. R.A. Shakhnovich)
Krasnoyarskogo meditsinskogo instituta.
(REFLEXES)

BABKIN, P. S., kand. med. nauk

Digital flexor reflexes in the hands in human development. *Pediatrics*
no.11:22-24 '61. (MIRA 14:12)

1. Iz kafedry nervnykh bolezney (zav. - dotsent L. M. Shenderovich)
Krasnoyarskogo meditsinskogo instituta (dir. - dotsent P. G.
Podzolkov, nauchnyy konsul'tant - deystvitel'nyy chlen AMN SSSR
prof. S. N. Davidenkov)

(REFLEXES) (FINGERS)

BABKIN, P.S.; TOPOL'YAN, S.I. (Krasnoyarsk)

Family with hemigigantism associated with external ophthalmoplegia and dental anomaly. Klin.med. 39 no.2:141-145 F '61.

(MIRA 14:3)

1. Iz kafedry nervnykh bolezney (zav. - dotsent L.M. Shenderovich) Krasnoyarskogo meditsinskogo instituta (dir. - dotsent P.G. Podzolkov).

(DEFORMITIES) (EYE--PARALYSIS)

(TEETH--ABNORMITIES AND DEFORMITIES)

BABKIN, P.S.

Age related dynamics of Klippel-Weil and Wartenberg reflexes under conditions in man. Zhur. nevr. i psikh. 61 no.6:815-817 '61.
(MIRA 15:2)

1. Kafedra nervnykh bolezney (zav. - dotsent L.M.Shenderovich)
Krasnoyarskogo meditsinskogo instituta. Nauchnyy konsul'tant -
prof. S.N.Davidenkov.
(CHILDREN__AGING) (REFLEXES)

BABKIN, P.S.

Clinical significance of the hand and mouth reflex.
Vop. okh. mat. i det. 7 no.1:53-56 Ja '62. (MIRA 15:3)

1. Iz kafedry nervnykh bolezney (zav. - doktor med.nauk
L.M. Shenderovich) Krasnoyarskogo meditsinskogo instituta
(dir. - dotsent P.G. Podzolkov).

(REFLEXES)
(INFANTS (NEWBORN))

BABKIN, P.S.

Cutaneomuscular and tendon reflexes in monkeys. Fiziol, zhur. 48
no.1:31-38 Ja '62. (MIRA 15:2)

1. From the Department of Nervous Diseases, Medical Institute,
Krasnoyarsk, (REFLEXES) (MUSCLES) (TENDONS)

LOPATIN, A.N.; L'VOV, D.K.; BABKIN, P.S.

Case of recurrent tick-borne encephalitis. Vop.virus. 7
no.6:741 N-D '62. (MIRA 16:4)

1. Krasnodarskiy meditsinskiy institut.
(ENCEPHALITIS)

BABKIN, P. S.

"Varianty propriotseptivnykh i eksterotseptivnykh reflektsov v norme u cheloveka po dannym issledovaniykh i raznoyaytsevykh bliznetsov."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

BABKIN, P.V.

Supergene mercury minerals in the Ghukchi National Area. Zap.Vses.
min.ob-va 90 no.3:299-301 '61. (MIRA 14:10)
(Chukchi National Area--Mercury ores)

BABKIN, P.V.; KOPYTIN, V.I.

Geological and mineralogical characteristics of mercury deposits
in the Chukchi National Area. Sov. geol. 4 no.8:109-113 Ag '61.
(MIRA 16:7)

1. Severo-Vostochnoye geologicheskoye upravleniye.
(Chukchi National Area—Mercury ores)

BABKIN, P. V.

Materials on the crystallography of cinnabar of the Koryak
Range. Zap. Vses. min. ob-va 91 no.3:337-342 '62.
(MIRA 15:10)

(Koryak Range---Cinnabar crystals)

BABKIN, P.V.; DRABKIN, I.Ye.

Structural and morphological types of mercury deposits in the
northeastern U.S.S.R. Sov. geol. 7 no.1:113-119 Ja '64.

(MIRA 17:6)

1. Severo-Vostochnoye geologicheskoye upravleniye.

BAEKIN, P.V.

Crystal morphology of cinnabar from ore manifestations in the
northeastern U.S. J.R. Zap. Vses. min. ob-va 93 no. 48399-410
'64 (MIRA 18:1)

BABKIN, R. L. Engr.

"Equalizing the Salt Concentrations in Steam Boiler Water," Elek. stan.,
No.5, 1949.

BARKIN, K. L.
P.A.

N.

1628. RATIONALIZATION OF BOILER FEED SYSTEM IN MAIN POWER STATIONS...
K.L. (Za Ekon. Topliva (Fuel Econ.) Apr. 1952, 34-35).
A satisfactory solution has been found in Soviet power stations to the difficulties caused with chemically treated water owing to the high demands of sectional boilers in regard to water quality and of turbines in regard to steam. The method used for two years on a plant consisting of 3 drum and 3 sectional boilers employs irregular distribution of purified water along the boiler and partial sectionalization of the feed path. (L) B. P.A.

BABKIN, R. L.

"Improved Method of Feeding the Steam Boilers at the State Regional Electric Power Plant," Za Ekon Top., 9, No.4, 1952

BABKIN, R. L.

Filters and Filtration

Use of the two-stage cationizing method for increasing the exchange capacity in installations with preparatory liming. Za ekon. top. 9 no. 7, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. Unclassified.

BABKIN, R. L.

U S S R .

*A New colorimetric method for determining oxygen dissolved in water. R. L. Babkin. *Elek. Sveski* 25, No. 1, 18-19(1954).—The method is based on the reaction between leucodidigo carmine and dissolved O. The leuco compd. is prepd., as needed, by reducing a weakly ammoniacal soln. (0.2N) of indigocarmine with Zn amalgam. A given amt. of the leuco compd. is added to the water sample; the contents are mixed and compared with standards. The method is inert to temp., nitrites, nitrates, sulfates, chlorides, phenol, Fe, Zn, NH₃, and small amts. of Na sulfite. With a Na sulfite concn. of several tens of mg./l., there is a gradual fading of coloration, but this does not affect the detn. if the interval between fixation of O and comparison with standards does not exceed 1 hr. The detn. is affected by Cu ions, but their influence can be overcome completely if the ammoniacal soln. of indigocarmine contains about 1 g. of Seignette salt/100 ml. of soln. Details of prepn. standard scales are given.*

B. Z. Karnich

BABKIN, R.L.

USSR/Chemical Technology - Chemical Products and Their Application. Water treatment. Sewage water. I-11

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12737

Author : Babkin R.L.

Title : Some Specific Features of Combined H-Na Cathionite Treatment

Orig Pub : Elektr. stantsii, 1955, ^{Vol. 26,} No 8, 15-18

Abstract : With an industrial water-treatment unit operating according to the scheme: combined H-Na cathionite treatment (1-st stage), Na-cathionite treatment (2-nd stage), decarbonization; observations were conducted of the changes in the quality of the filtrate following both stages of cathionite treatment. The initial water had a hardness of 4.0-6.0, total, an alkalinity 3.5-5.5 mg-equivalent/liter, dry residue 300-500 μ g/liter. It was noted that filters of combined H-Na cathionite treatment do not yield filtrates of a constant quality; hardness

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USSR/Chemical Technology - Chemical Products and Their
Application. Water treatment. Sewage water.

I-11

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12737

fluctuated from 20 to 200 μ g-equivalent/liter, alkali-
nity from 0.3 to 3.5 mg-equivalent/liter. Filters of the
second stage produced a buffer effect both as concerns
hardness (which was lowered to 2-5 μ g-equivalent/liter),
and alkalinity (maintained at a level of 1.9-2.0 mg-equi-
valent /liter). Output curves are included which illus-
trate the operation as 1-st and 2-nd stage filters.

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Babkin, R.L.

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4790

Author : Babkin, R.L., Yepeykina, K.P.

Title : Rapid Determination of Nitrates in Boiler Water

Orig Pub : Energetik, 1956, ^{Vol. 4,} No 8, 13-14

Abstract : The method which the authors recommend as a rapid method is based on the possibility of a direct titration of NO_3 with a solution of indigocarmine (I) in a strongly acid medium. Into a 100 ml flask are placed 10 ml of the water being investigated, 10 ml concentrated H_2SO_4 (Sp. Gr. 1.84) are rapidly added and the hot solution is titrated immediately with a solution of I to a dirty-green coloration. To prepare the titrating solution of I, a weighed sample of finely comminuted I is placed into a porcelain dish, carefully moistened with concentrated H_2SO_4 (6-8 ml H_2SO_4 per 1 g I), heated with

Card 1/2

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USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4790

occasional stirring on a water bath until completely dissolved, diluted to the predetermined volume, allowed to stand for 5-6 days, filtered, and the titer of this solution is then determined by using a standard solution of KNO_3 or $NaNO_3$. Since the main reaction is accompanied by secondary processes it is necessary to adhere strictly to the set conditions of titration.

Card 2/2

- 38 -

BABKIN, R.L., inzhener.

Indigo carmine method for the determination of dissolved oxygen
in water. Elek.sta.27 no.2:61 F '56. (MLRA 9:6)
(Indigo carmine) (Oxygen--Analysis) (Water--Analysis)

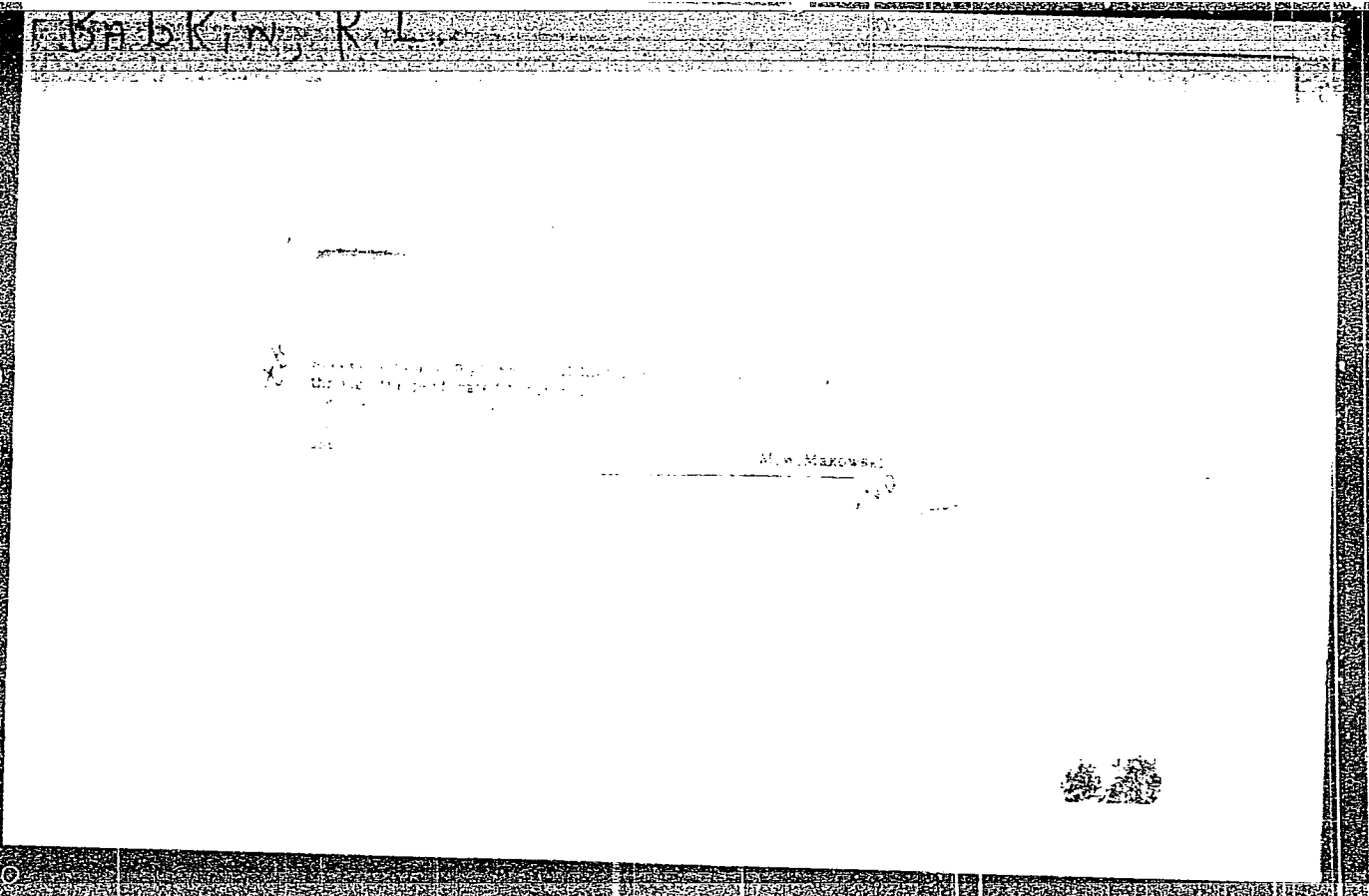
BABKIN, R.L.

603. PORTABLE APPARATUS FOR THE DETERMINATION OF OXYGEN DISSOLVED IN (FEED)WATER. 621.187.1
R. L. Babkin. *Sh*

Elektr. Stantsii, 1956, No. 3, 19-21. In Russian.

A simple portable apparatus is described for the colorimetric determination of oxygen dissolved in power station feed-water through the oxidation of leuco-indigocarmin. This is freshly prepared through reduction of indigocarmin with zinc amalgam in the same apparatus and mixed in the desired proportion with water continuously flowing through one portion of the apparatus, the flow of water-leuco-dye mixture being then diverted through a continuous flow colorimeter cell, the color in which is compared with a series of standards permanently fixed in the outfit.

R. C. Murray



BARKIN, R.L.

1
 Rapid determination of nitrates in boiler water. P. 1
 Barkin and R. P. L. ...
 ... standardized against NaNO_2 . For the nitrate detn.
 take 10 ml. of the sample and dilute to 100 ml. with distilled
 water. Add 1 ml. of 1% KNO_3 solution and titrate with
 0.1% KNO_3 solution using a sulfophenol indicator.
 The color change is from yellow to brown.
 ... must be titrated rapidly with the standard solution.
 ... use 10 ml. equal to 100 mg. NaNO_2
 (corresponding approx. to 0.5-1.0 g. l. l.). For the prepn.
 of I soln., cautiously wet the I with concd. H_2SO_4 , 3-8
 ml. acid per g. of I. Heat the mixt. on the H_2O bath, with
 frequent stirring, to complete soln. Dil. cautiously with
 H_2O to a known vol. After 5-6 days filter the soln. and
 det. the titer against standard NaNO_2 or KNO_3 soln.
 With samples contg. up to 200 mg./l. NaNO_2 , the standard
 NaNO_2 soln. should contain 100 mg./l.; for samples contg.
 100-500 mg./l. NaNO_2 , use standard NaNO_2 soln. contg. 200
 mg./l. The I soln. keeps its titer 5-6 months without
 storage precautions. Ten samples contg. 20-104 mg./l.
 NaNO_2 were analyzed by the sulfophenol and by the I
 method. If the sulfophenol results are correct, the relative
 error was 1-5 %.

R. L. Barkin

BARKIN, R. L.

BARKIN, R.L.

Discrepancies in the determination of oxygen in water by
 different methods. R. L. Barkin. *Pub. No. 25*
 6, 19-22(1957).—Discrepancies in the determination of
 the conc. of dissolved oxygen in water by different
 methods are discussed. The methods of Winkler,
 H. L. Clark, and H. L. Clark and G. L. Fisher are
 compared. The results show that the Winkler method
 is applicable in the presence of NH_3 and its
 salts.

MT

BABKIN, R.L., inzh.; YEPEYKINA, K.P., inzh.

Determining microquantities of silicon and phosphorus in condensate.
Elek.sta. 29 no.6:34-37 Je '58. (MIRA 11:9)
(Silicon--Analysis) (Phosphorus--Analysis) (Steam--Analysis)

SOV/96--59-8--2/27

AUTHORS: Babkin, R.L., Engineer, Yakimets, Ye.M., Candidate of
Technical Sciences

TITLE: Methods of Determining Small Quantities of Oxygen
Dissolved in Water

PERIODICAL: Teploenergetika 1959, Nr 8, pp 6-9 (USSR)

ABSTRACT: This article is a general review of methods of determining small quantities of oxygen in water, with particular reference to publications in the English and German languages. Iodometric methods are first discussed, and development has followed the lines of refining Winkler's method by improving the sampling procedure and the methods of introducing reagents as well as devising ways of avoiding the influence of other ions. Many of the improvements to Winkler's method are concerned with determination of the endpoint, and reference is made to the development of electrometric methods. However, the various methods of avoiding error in the determination of the iodine formed do not reduce the errors that result from iodine formation

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in quantities not equivalent to the oxygen content. The many corrections, and the difficulty of excluding various factors that influence the accuracy at very low concentrations, render the Winkler method unsuitable for the determination of oxygen in the feed water of modern steam boilers. In recent years, a great deal of work has been published on electro-chemical methods which do not involve the introduction of reagents into the samples. In most of these methods one of two electrodes is depolarised by the oxygen dissolved in the water, establishing a potential difference proportional to the oxygen concentration. These methods are sub-divided into those in which an external voltage is applied to the electrodes and those in which the voltage is developed as a result of differences between the electrodes. A general review of the two types of method is given. Difficulties in the use of electro-chemical methods have been pointed out in Germany. The basic apparatus is expensive and requires a good deal of auxiliary equipment to ensure that various factors are stabilised. The authors have studied instruments based on the principle of the galvanic cell with electrodes of different materials, and

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whilst satisfactory results were obtained with relatively high oxygen and salt concentrations, good repeatability has not yet been obtained in determining oxygen in condensate at concentrations of up to 0.05 mg O₂/litre. A good deal of work has been done on the indigo-carmin method first developed in 1925 by Efimov. Recent developments in this method are referred to and its advantages are explained. At present it is the method most commonly used in Soviet Power Stations to determine oxygen content. If colorimetric methods are used to determine the oxygen, the presence of materials that make the oxidation products red will substantially impair with the sensitivity of the method. In this respect not all of the indigo-carmin produced by different Soviet factories is equally satisfactory. There are 36 references, 10 of which are Soviet, 14 English, 11 German and 1 French.

ASSOCIATIONS: Vostochnyy filial VTI i Ural'skiy Politekhicheskiy Institut (The Eastern Branch of the All-Union Thermo-Technical Institute and The Ural Polytechnical Institute)

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5(3), 8(6)

SOV/91-59-9-6/33

AUTHOR: Mendelejev, G.A. and Rabkin, R.L., Engineers

TITLE: Reducing the Carbon Dioxide Content in the Distillate of an Evaporator Plant

PERIODICAL: Energetik, 1959, Nr 9, pp 11-13 (USSR)

ABSTRACT: An increased carbon dioxide content in the distillate of evaporator plants will gradually destroy the housing and the tubes of the secondary and tertiary steam coolers. It will also reduce the pH value of the boiler feed water. When analyzing the function of an evaporator plant based on its test results, it is found that the principle reason for increased carbon dioxide content in the distillate of the evaporator is the inefficient design of the secondary and tertiary steam coolers (Figure 1,a) the improper exhaust of uncondensed gases, the presence of large unventilated heater volumes with great partial carbon dioxide pressure. The secondary steam, entering the condenser

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from the evaporator, contain carbon dioxide, whose partial pressure is measured in fractions of mm mercury column. The condensate obtained from such steam, obviously, will contain insignificant amounts of dissolved carbon dioxide. However, when the steam moves along the cooler, and during the condensation of the basic amount of steam, the partial carbon dioxide pressure will gradually rise, and eventually it will reach rather considerable magnitudes. This carbon dioxide concentration determines on a whole the degree of carbon dioxide saturation of the distillate. During the normal operation of the cooler, the dissolving of carbon dioxide and the mechanical extraction of carbon-dioxide-steam concentrate proceed simultaneously, changing regularly with changes of load and condensate volume in the condensate collector. Under certain conditions, for example during tests, the carbon dioxide content of the condensate, which was normally 40 mg/lit, may suddenly rise to 660 mg/lit.

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These assumptions were confirmed by investigations conducted at VTI by I.K. Grishuk, V.V. Sheveleva and A.I. Perfilov (Ref 1). The analysis of the work of condenser plants shows that one of the principle reasons, facilitating the enrichment of the turbine condensate with carbon dioxide, is the extraction of uncondensed gases from the cooler of the evaporator and their appearance at the turbine condenser entrance. There they mix with the steam and increase the partial carbon dioxide pressure with a corresponding enrichment of the turbine condensate by carbon dioxide. By insignificant modifications of a tertiary steam cooler of an evaporator and by some changes in the gas removal (shown in Figure 1,b), a considerable (approximately 8-10 times) reduction of the carbon dioxide content was achieved in the distillate of the evaporator. This, in turn, resulted in a notice-

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rator Plant

able reduction of the free carbon dioxide in the
boiler feed water. There are 2 sets of diagrams and
1 Soviet reference.

Card 4/4

RABKIN, R.L., inzh.; SINITSINA, M.N., inzh.

Simplified water system of condensing electric power plants. Elek.
sta. 30 no.2:31-34 F '59. (MIRA 12:3)

(Feed water) (Electric power plants)

BABKIN, R.L., inzh.; YEPEYKINA, K.P., inzh.

Determining pH of weakly buffered mediums. Teploenergetika
7 no.2:66-70 F '60. (MIRA 13:5)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta.
(Hydrogen-ion concentration)

RABKIN, R.L.; MEL'NIKOV, V.B.

Plunger-type colorimeter for studying weakly colored solutions.
Zav.lab. 26 no.1:114-116 '60. (MIRA 13:5)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo nauchno-
issledovatel'skogo instituta imeni F.E. Dzerzhinskogo.
(Colorimeters)

BABKIN, R.L., inzh.

Experience in organizing physicochemical control of the process
of condensate demineralization. Teploenergetika 3 no. 9:52.
56 Aug '61. (MIRA 14:10)

J. Vostochny; filial Vsesoyuznogo teplotekhnicheskogo instituta,
(Feedwater purification)

BABKIN, R.L., inzh.; GOLOVKO, R.Ye., inzh.

Neutralization of acidic regenerated wash-water by a refill filter.
Energetik 9 no.4:27-30 Ap '61. (MIRA 14:8)
(Water--Purification)

BABKIN, R.L., inzh.

Remarks on R.N. Aksel'rud and N.S. Litvinova's article "Improved method
for determining the content of carbonic acid." Elek. sta. 32
no. 5:91 My '61. (MIRA 14:5)
(Feed water) (Carbonic acid) (Aksel'rud, R.N.)
(Litvinova, N.S.)

BABKIN, R.L., inzh.; YEPEYKINA, K.P.

Analysis of oxygen dissolved in water. Teploenergetika 9 no.2:
48-54 F '62. (MIRA 15:2)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta.
(Water--Analysis) (Colorimetry)

BABKIN, R.L., inzh.

Heater converted for condensing steam with a high carbonic acid
concentration. Elek.sta.33 no.1:21-23 Ja '62 (MIRA 15:3)
(Condensers(Steam))

BABKIN, R. L.

Sheathed electrodes sealed in glass. Zav. lab. 28 no.12:
1531-1532 '62. (MIRA 16:1)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta
im. Dzerzhinskogo.

(Electrodes, Platinum)

DEWAIN, R.J., inst.

pH-buffer properties of cation exchangers and their use in water softening technology. Teploenergetika 12 no.10:18-22 0 '65.

(MIRA 18:10)

1. Vostochnyy filial Vsesoyuznogo teplotekhnicheskogo instituta, Chelyabinsk.

L 23203-66

ACC NR: AP6013593

SOURCE CODE: UR/0096/65/000/010/0018/0022

AUTHOR: Babkin, R. L. (Engineer)

ORG: VoFVTI

TITLE: pH-buffer properties of cation exchangers and their usage in water softening

SOURCE: Teploenergetika, no. 10, 1965, 18-22

TOPIC TAGS: ion exchanger, buffer solution, water supply system

ABSTRACT: Mixtures of cation exchangers in hydrogen and salt form have pH buffer properties, just as do mixtures of acids and their salts. The pH buffer properties of cation exchangers may be used in preparation of water for power installations, though they can be used only with careful theoretical study to predict their behavior under concrete usage conditions. An analysis of the behavior of the cation exchangers in the weak solutions which compose natural water indicates that the installation of a second stage filter before decarbonization in plants using combined H, Na cationization is very useful. Filters controlling alkalinity can also be effectively used in the case of parallel H and Na cationization. A technological peculiarity of the regulating filter is that it is not subjected to regeneration and works as a combined H, Na, Ca cation exchange filter. It need only be

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UDC: 661.183.123.001.1

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B

2

L 23203-66

ACC NR: AP6013593

periodically loosened, usually each 30-50 days. A regulating filter can also greatly improve the quality of water processed by an H-cation exchange filter. Orig. art. has: 2 figures and 19 formulas. JFRS/

SUB CODE: 13, 07 / SUBM DATE: none / ORIG REF: 007

Card 2/2

PB

L 28846-66 EPF(n)-2/EWT(m)/T/EWP(t)/ETI IJP(c) JD/WB
ACC NR: AP6013739 (A) SOURCE CODE: UR/0089/66/020/004/0357/0359

AUTHOR: Babkin, R. L.; Kiseleva, L. V. 59
B

ORG: None

TITLE: Determination of the amount of corrosion products in the water of nuclear power reactors 14

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 357-359

TOPIC TAGS: nuclear power reactor, water cooled nuclear reactor
nuclear reactor material, corrosion

ABSTRACT: The authors describe a quick analysis method for measuring the amount of products formed by the corrosion process in the water of nuclear reactors. The method is based on the complexometric back titration and special preparation of test samples. The slow neutralization of acid samples in titrant is explained and the process of their treatment and testing is described. The results of the analysis are expressed in equivalent weight units. The method was first tested

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UDC: 621.039.532.4.545

L 20846-66

ACC NR: AP6013739

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on standard metal solutions and then applied to the determination of the amount of heavy metals in specially prepared mixtures. The weights of metals found in standard solutions are presented in a table for Fe, Cu, Ni, Co, Cr, Zn, and Mn. The equivalent weights are also tabulated for two Fe-Cu-Ni-Co-Cr mixtures. Finally, two comparative methods were used for analysis of the water taken from two-loop reactors. The total weights of corrosion products determined by colorimetric and complexometric methods are summed up in a table proving the reliability of the complexometric titration method. Orig. art. has: 3 tables.

SUB CODE: 18 / SUBM DATE: 20Feb65 / ORIG REF: 004 / OTH REF: 003

Card 2/2 cc

ANDROSOV, P.I., doktor meditsinskikh nauk; BABKIN, S.I., kandidat
tekhnicheskikh nauk; BOBROV, B.S., inzhener; LIN'KOVA, M.N.,
vrach.

Instruments for applying tobacco bag sutures and methods of use
Vest.khir.76 no.8:130-135 S '55. (MLRA 8:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov (Dir. M.G.Anan'yev)
Moskva, I-81, Fabrichnaya liniya, d. 6.

(GASTROINTESTINAL SYSTEM, surg.

pouch. sutures, instrument for application & method)

(SUTURES,

pouch sutures in gastrointestinal surg., instrument for
application & method)

(SURGERY, OPERATIVE, apparatus and instruments

instrument for application of pouch sutures in gastro-
intestinal surg.)

ANDROSOV, P.I.; BABKIN, S.I.; BOBROV, B.S.; LIN'KOVA, M.N.

Letters to the editor. Vest.khir. 77 no.4:154 Ap '56. (MLRA 9:8)
(SURGICAL INSTRUMENTS AND APPARATUS)

BRITISH, ... 1.

The basic technical premises and contemporary ways of solving the task of creating surgical suturing equipment 11

Novye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniye (New SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1, Moscow, 1957 A collection of Papers of the Scientific Research Inst. for Experimental Surgical Equipment and Instruments.

N I E K H A I I

Modern equipment for intestinal surgery 121

Novye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniya (New SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1, Moscow, 1957 A collection of Papers of the Scientific Research Inst. for Experimental Surgical Equipment and Instruments.

NOEKH A 1

ANDROSOV, P.I., doktor meditsinskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; BELYAKOV, P.D., kandidat meditsinskikh nauk; KLEMINA, Ye.P.; KRYUCHKOVA, G.S.

Apparatus for mechanical ligation of vessels. Nov.khir.arkh. no.1:
86-87 Ja-F '57. (MLRA 10:6)

1. Adres avtorov: Moskva, I-81, Fabrichnaya liniya, 6, Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov Ministerstva zdravookhraneniya SSSR.
(SURGICAL INSTRUMENTS AND APPARATUS)
(LIGATURE (SURGERY))

ROBKIN, S.I.; BOBROV, B.S.

New apparatus for suturing gastric amputation stumps. Med. prom.
no.4:56-58 Ap '57. (MLHA 10:6)

1. Nauchno-issledovatel'skiy institut eksperimental'noy
khirurgicheskoy apparatury i instrumentov.
(SURGICAL INSTRUMENTS AND APPARATUS)
(STOMACH--SURGERY)

BABKIN, S.I.

Main technical requirements in making surgical suturing apparatus.
Med. prom. 11 no.3:10-13 Mr '57 (MLRA 10:4)

1. Nauchno-issledovatel'skiy institut eksperimental'noy
khirurgicheskoy apparatury i instrumentov.
(SURGICAL INSTRUMENTS AND APPARATUS)

MALOV, A.N., kand.tekhn.nauk; BABKIN, S.I., kand.tekhn.nauk; VOLKOV, S.I.,
kand.tekhn.nauk; GORODETSKIY, I.Ye., prof., doktor tekhn.nauk;
GOROSHKIN, A.K., inzh.; DOSCHATOV, V.V., kand.tekhn.nauk; ZAMALIN,
V.S., inzh.; ISAYEV, A.I., prof., doktor tekhn.nauk; KEDROV, S.M.,
kand.tekhn.nauk; MARDANYAN, M.Ye., inzh.; PANCHENKO, K.P., kand.
tekhn.nauk; SEKRETEV, D.M., inzh.; STAYEV, K.P., kand.tekhn.nauk;
SYROVATCHENKO, P.V., inzh.; TAURIT, G.E., inzh.; ML'YASHEVA, M.A.,
kand.tekhn.nauk; KOVAN, V.M., prof., doktor tekhn.nauk, glavnyy red.;
MARKUS, M.Ye., inzh., red. [deceased]; SOKOLOVA, T.F., tekhn.red.

[Manual for mechanical engineers; in two volumes] Spravochnik tekhnolo-
loga mashinostroitelia; v dvukh tomakh. Glav.red. V.M.Kovan. Chleny
red.soveta B.S.Balakshin i dr. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry. Vol.2. Pod red. A.N.Malova. 1959. 584 p.
(MIRA 12:11)

(Mechanical engineering)

BABKIN, S.I.; ASTAFA'YEV, G.V.; KRIAZHEVA, Yu.G.

Trocar- extractor for biopsy of the prostate gland. Urologia
24 no.6:57-59 '59. (MIRA 13:12)
(PROSTATE GLANDS--DISEASES) (BIOPSY)

BABKIN, S.I., kand.med.nauk; BELYAKOV, P.D., kand.med.nauk; TRUSOV, M.M.;
NESTERENKO, A.G.

Apparatus for the atomization of therapeutic solutions in the treatment
of burns. Khirurgia 35 no.7:138-139 J1 '59. (MIRA 12:12)

1. Iz nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentariya Ministerstva zdravookhraneniya SSSR (dir. - M.G. Anan'yev).
(BURNS, therapy)

GESELEVICH, Anatoliy Mikheylovich, prof.; GORKIN, Nikolay Semenovich;
ANAN'YEVA, M.G., red.; BABKINA, S.I., red.; BLISEYEVA, A.V.,
red.; GABERLAND, M.I., tekhn. red.

[New surgical instruments and apparatus for chest surgery; a
textbook for physicians and students in medical institutes] Novye
khirurgicheskie instrumenty i apparaty dlia grudnoi khirurgii; po-
sobie dlia vrachei i studentov meditsinskikh institutov. Moskva,
Medgiz, 1961. 151 p. (MIRA 15:7)

(CHEST—SURGERY)
(SURGICAL INSTRUMENTS AND APPARATUS)

KALININA, T.V. (Moskva, D-315, ul. Chasovaya, d. 27/12, pod. 1, komn. 22); BABKIN, S.I.;
KASULIN, V.S.; ASTAF'YEV, G.V.

Mechanical suture for esophago-intestinal (gastric) anastomosis.
Klin.khir. no.8:81-82 J1 '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.
(SUTURES) (ALIMENTARY CANAL—SURGERY)

ANTOSHINA, N.V.; ASTAF'YEV, G.V.; BABKIN, S.I.; BELAVIN, K.F.;
BELEN'KIY, V.A.; BEREZIN, I.P.; BOBROV, B.S.;
VOLKOV, A.M.; GRITSMAN, Yu.Ya.; KUKUSHKIN, L.I.; PEREP'ELKIN,
V.P.; PETROVA, N.P.; GESELEVICH, A.M., red.; DEKHTYAR', Ye.G.,
red.

[New surgical apparatus and instruments; a practical manual
for physicians, students of senior courses at medical insti-
tutes and surgical nurses] Novye khirurgicheskie apparaty i
instrumenty; prakticheskoe rukovodstvo dlia vrachei, studen-
tov starshikh kursov meditsinskikh institutov i operatsion-
nykh sester. Moskva, Meditsina, 1964. 253 p.

(MIRA 18:3)

BLUVSHTEYN, G.M.; RABKIN, S.P. (s.Ul'yanovka, Surskoy obl.)

Some data on the incidence of disease in the rural population as
shown by materials from a feldsher-midwife center. Vrach.delo
no.12:1299-1301 D '56. (MIRA 12:10)
(DISEASES--REPORTING)

BABKIN, V.; BIRYUKOV, A.

Seven minutes in the air. Av.i kosm. 46 no.7:75-78 J1 '63.
(MIRA 16:8)

(Parachuting)

SEMENCHUK, K.L.; kand.veter. nauk; BABKIN, V.F., veterinarnyy vrach

Anaerobic infection in Japanese deer in the Askaniya-Nova Zoological
Garden. Nauch. trudy "Ask.-Nov." 13:120-122 '63. (MIRA 17:2)

BABKIN, V.F., veterinarnyy vrach; KABLOV, G.A., kand.veter. nauk

Melanocarcinoma of sexual glands in hybrid ducks. Nauch. trudy "Ask.-
Nov." 13:123-124 '63. (MIRA 17:2)

PROKOF'YEVA, M.T., dcktor veter. nauk; BABKIN, V.F., aspirant

Hemagglutinative characteristics of the infectious
laryngotracheitis virus. Veterinariia 42 no.8:24-28 Ag
'65. (MIRA 18:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut
eksperimental'noy veterinarii.

KOCHKAREV, I.Ya., kand. tekhn. nauk, dotsent; PABKIN, V.I., inzh.

Pressure distribution in the runner of a hydraulic torque converter with centrifugal flow in a turbine. Izv. vys. ucheb. zav.; energ. 8 no.11:64-69 N '65. (MIRA 18:11)

L. Leningradskiy politekhnicheskiy institut imeni M.J. Kalinina.
Predstavlya kafedroy gidravlicheskikh mashin.

BARKIN, V.G.

BARKIN, V.G.: "Methods of ridding the atmosphere in mines of flying dust, and the use of electric filters in mines". Moscow, 1955. Acad Sci USSR, Inst of Mining. (Dissertations for the Degree of Candidate of Technical Sciences).

SO: Kpizhnaya letopis' No 45, 5 November 1955. Moscow.

Babkin, V. G.

BABKIN, V.G.

Approximate determination of the average cross section of
the fire drift in underground gasification of coal. Podzem.
gaz. ugl. no. 4:19-23 '57. (MIRA 11:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgas.
(Coal gasification, Underground)

BABKIN, V.G.

~~.....~~
Brief survey of the state of underground coal gasification practices
in Poland. Podzem.gaz.ugl. no.1:74-76 '58. (MIRA 11:4)
(Poland--Coal gasification, Underground)

BABKIN, V.G.

Investigating burnt-out areas by core sampling at the pilot
"Podzemgaz" gas-producer plant No. 3 in the Moscow Basin.
Podzem.gaz. ugl. no. 2:21-25 '58. (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.
(Moscow Basin--Coal gasification, Underground)

BABKIN, V.G.

Structure of the burnt-out area and total gasification of the coal seam. Podzem.gaz.ugl. no.2:22-25 '59. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut podzemnoy gazifikatsii ugley.
(Coal gasification, Underground)

KAZAK, V.N.; BABKIN, V.G.

Comparison of technological and surveying data with results
of the investigation of burnt-out areas by core sampling.
Podzem.gaz.ugl. no.3:25-30 '59. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut
podzemnoy gasifikatsii ugley.
(Coal gasification, Underground)

BABKIN, V.G.

Investigating the electrostatic plate filter. Kolyma 21 no.1:22-24
Ja '59. (MIRA 12:6)

1.VNIipodzemgaz.
(Dust collectors) (Mine dusts)

BABKIN, V.G.

Using the method of hydraulic fracturing for the development of coal seams for underground coal gasification (from "Mining Equipment," II, no.12, 1960). Nauch. trudy VNII Podzemgaza no.6:131 '62. (MIRA 15:11)

1. Glavnoye upravleniye podzemnoy gazifikatsii ugley Ministerstva ugol'noy promyshlennosti SSSR.
(United States—Coal gasification, Underground)

8

16(1), 16(2)

05796

AUTHORS: Babkin, V.I., Belyayev, P.F., and Maksimov, Yu.I. SOV/52-4-4-7/13

TITLE: Some Remarks on Goncharov's Paper "From the Domain of Combinatorics"

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 4, pp 445-450 (USSR)

ABSTRACT: In the sequence
(1) x_1, x_2, \dots, x_N
let $x_i (i=1, 2, \dots, N)$ assume either the value A or the value B.
According to V.L. Goncharov [Ref 1] a running series of A-values is denoted as an A-series; the number of appearing A-values is called the length of a series. Let $\nu_i (i=1, 2, \dots, k-1)$ be the number of A-series of the length i and ν_k be the number of A-series of the length k and longer in (1) ($k \geq 1$ given number).
Let (1) be a simple homogeneous Markov chain, where the matrix of the transition probabilities contains no zero elements. It is shown that the random vector $(\nu_1, \nu_2, \dots, \nu_k)$ after a corresponding normalization is distributed asymptotically normal for great N.

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