

ACC NR: AR6013633

calibration of instruments and standardization of reference and working emitters. The work completed by the laboratory is described and the equipment used is enumerated. 4 references.

SUB CODE: 14, 18

Card 2/2

L 47103-66 ENT(m)

ACC NR: AR6016487

SOURCE CODE: UR/0272/65/000/012/0103/0103

AUTHOR: Baykalov, S. N. ; Vasil'yev, R. D. ; Garapov, E. F.

41
B

TITLE: Methods of standardization of ¹⁹radioactive sources and of grading of radiometric and dosimetric equipment

SOURCE: Ref. zh. Metrologiya i izmeritel' naya tekhnika, Abs. 12.32.889

REF SOURCE: Tr. Soyuzn. n.-i. in-ta priborostr., vyp. 1, 1964, 199-212

TOPIC TAGS: alpha radiation, beta radiation, gamma radiation, neutron radiation, radioactivity measurement, dosimeter

ABSTRACT: The paper discusses problems of the laboratory of metrology of ionization measurements, including the preparation of procedural instructions for the calibration of experimental and operational emitters, preparation of tasks concerning the development of experimental equipment and emitters, aid to enterprises and verification of model equipment, and the examination and confirmation

Card 1/2

UDC: 389.539.1.07/.08

L 47103-66

ACC NR: AR6016487

of verification diagrams. Aside from these general tasks, the laboratory is engaged in evolving procedures for the metrology of alpha, beta, and gamma, and of neutron radiation. A large portion of the work of the laboratory is devoted to the development of standard equipment to transmit the dimensions of the various units of measurements, ranging from sample measures of the first grade to working measures, and also the designing of equipment to facilitate the grading of instruments and the standardization of experimental and operational emitters. The work completed by the laboratory is described and the equipment involved is enumerated. M. Mekler. [Translation of abstract] [GC]

SUB CODE: 06/

hs

Card 2/2

ZNACHKOVSIIY, B.P., kandidat meditsinskikh nauk; BAYKALOVA, G.A.

Effectiveness of pneumotomy in advanced lung abscess. Vest.khir.
77 no.3:88-89 Mr '56. (MLRA 9:7)

1. Iz khirurgicheskogo otdeleniya Belotserkovskoy gorodskoy
bol'nitsy

(LUNGS, abscess
advanced, surg.)

(ABSCESS
lung, advanced, surg.)

BAIKANOV, M.A.

USSR(600)

"Economic way of locating chambers of paint shops for agricultural machinery with utilization of heat losses." Sel'khozmaschina, no. 7, 1952.

ZHUKOV, Pavel Konstantinovich; KAZANIN, Yuriy Ivanovich; KAYUPOV, Aryktay Kayupovich; MURSALIMOV, Khakim Ibragirovich; FIGULEVSKIY, Nikolay Arsen'yevich; SHLYGIN, Artem Yevgen'yevich. Prinimali uchastiye: BAYKENEV, Sh.A.; BAYNAZAROVA, G.; ZERIN, Ye.S.; KRUKONOVA, N.P.; SHUKHOV, N.N.; BOK, I.I., akademik, otv. red.; NESTEROVA, I.I., red.; ALFEROVA, P.F., tekhn. red.

[Basic features of the geology and metallogeny of the Koksutekeli area of the Dzungarian Ala-Tau] Osnovnye cherty geologii i metallogenii Koksutekeliiskogo raiona Dzhungarskogo Alatau. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 123 p. (MIRA 15:11)

1. Institut geologicheskikh nauk (for Zhukov, Kazanin, Kayupov, Figulevskiy, Shlyginin). 2. Yuzhno-kazakhstanskoye geologicheskoye upravleniye (for Mursalimov). 3. Akademiya nauk Kazakhskoy SSR (for Bok).
(Dzungarian Ala-Tau—Geology, Economic)

UNDASYNOVA, Z.D.; PONOMAREVA, Ye.I.; BAYKINOV, Kh.T.

Speed of molybdenite oxidation by copper oxide in an alkaline
solution at high temperatures. Vest. AN Kazakh. Ser. 21 no.10:42-
49 0 '65. (MIRA 18:12)

BAYKENOV, U.

Case of chronic mechanical obstruction of the large
intestine. Zdrav. Kazakh. 22 no.9:71-73 '62.

(MIRA 17:2)

1. Iz Kokchetavskogo oblastnogo onkologicheskogo dispansera.

MAYEVA, I.A.; BAYKEYEVA, R.Yu.; VSYAKIKH, A.S., prof., red.

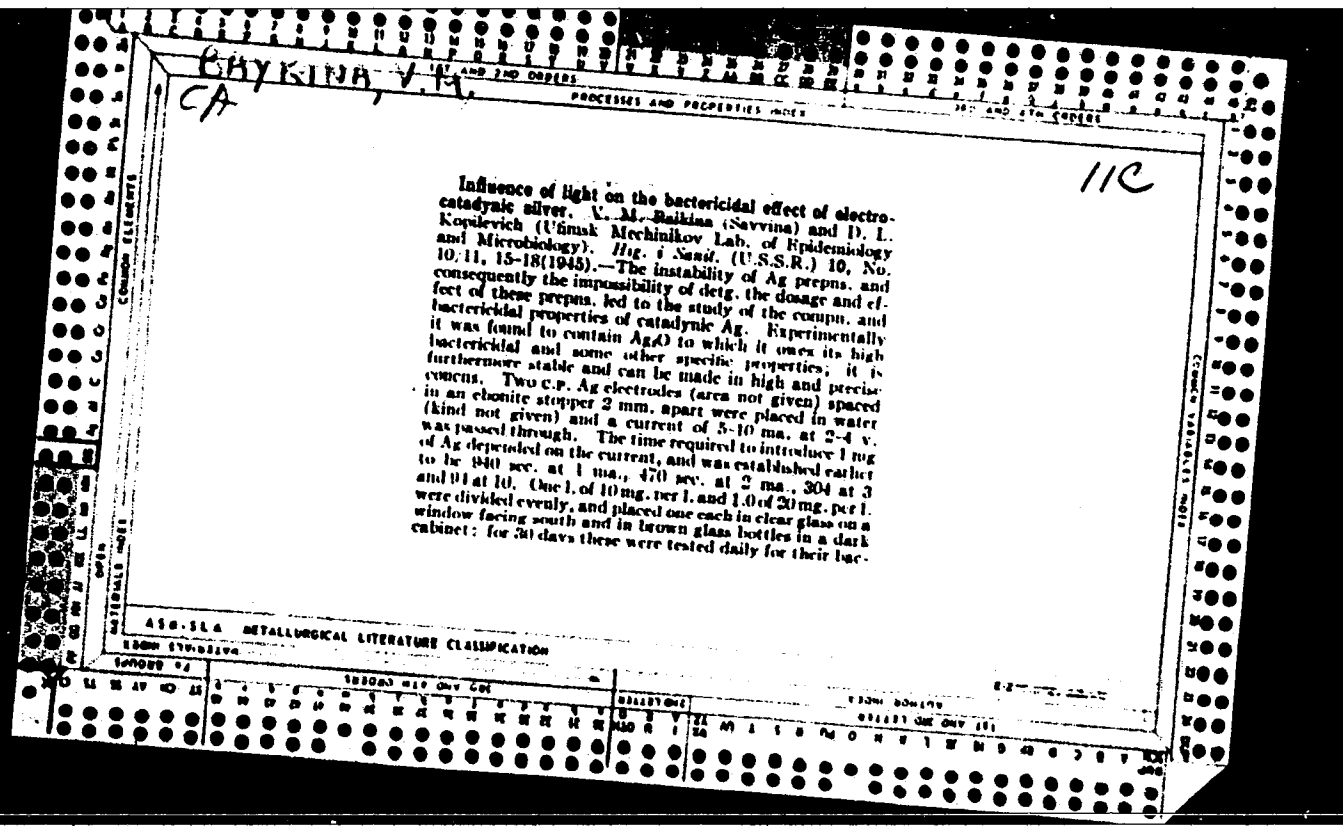
[Bibliographic index of published works by members of the All-Union Scientific Research Institute of Animal Husbandry, 1929-1962] Bibliograficheskii ukazatel' pechatnykh rabot sotrudnikov VIZHa (1929-1962). Pod red. A.S.Vsiakikh. [n.p.] Otdel nauchno-tekhn. informatsii VIZHa, 1962. 120 p. (MIRA 17:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zhitovnovodstva. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut zhitovnovodstva (for Mayeva, Baykeyeva).

IGONON, P.G., inzh.; SVITKIN, V.V., inzh.; MITROFANOV, M.G., kand.tekhn.nauk;
SLEPTSOV, Yu.S., inzh.; KOLOZHVARI, A.A., inzh.; PASHENKO, M.A., inzh.;
ZHIVOLUPOV, M.A., inzh.; Primalni uchastiye: MUSHENKO, D.V.;
TSYSKOVSKIY, V.K.; SHCHEGLOVA, TS.N.; FREYDIN, B.G.; PYL'NIKOV, V.I.;
LEVINA, M.I.; LEVIN, A.I.; LUR'YE, Ye.I.; BAYKINA, T.A.; UDOVENKO, S.A.;
MARCHENKO, T.A.

Effect of the method of liquid paraffin oxidizing on the yield and
quality of the obtained fatty acids. Masl.-zhir.prom. 28 no.11:20-23
N '62. (MIRA 15:12)

1. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut (for Igonin, Svitkin, Mirtofanov, Sleptsov, Kolozhvari, Pashenko, Zhivolupov).
 2. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov (for Mushenko, Tsyskovskiy, Shcheglova, Freydin, Pyl'nikov, Levina, Levin).
 3. Lengiprogas (for Lur'ye, Baykina).
 4. VNIISINZh (for Udovenko, Marchenko).
- (Paraffins) (Acids, Fatty)



Baykina, V. M.
USSR/Medicine - Dysentery

FD-1641

Card 1/1 : Pub. 148-21/28

Author : Yakhnina, N. A.; Kononova, V. N.; and Baykina, V. M.

Title : Intradermal reactions during dysentery

Periodical : Zhur. mikro, epid. i immun. 7, 83-86, Jul 1954

Abstract : A specific intradermal reaction in patients suffering from dysentery elicited by a complete antigen injected into the forearm is described. Gradual extinction of the reaction as the disease proceeds shows the development of antiendotoxic immunity. Species and strain specificity could not be obtained. Results of the investigations are presented on two charts. No references are cited.

Institution : Division of Epidemiology (Head-Prof. I. I. Yelkin) of the Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR (Dir.-Prof. V. D. Timakov)

Submitted : November 10, 1953

TOP SECRET

BANKING V.M.

Soil adjusted with phosphate buffer to pH 6.0. The

1970

TRAKHTENBERG, D.M.; RODIONOVSKAYA, E.I.; BAYKINA, V.M.; KHOKHLOV, A.S.

Preliminary comparative data on the properties of antibiotics of the streptothricin group obtained from various types of actinomycetes [with summary in English]. Antibiotiki 3 no.6:36-41 N-D '58.
(MIRA 12:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS, effects,
streptothricin group of antibiotics obtained from
various strains of Actinomyces, comparison (Rus))

AVGUL', V.T.; BAYKINA, V.M.; KHOZHLOV, A.S.

Automatic apparatus for countercurrent distribution. Zav.lab 26
no.10:1164-1166 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(Scientific apparatus and instruments)

TRAKHTENBERG, D.M.; BIRLOVA, L.V.; BAYKINA, V.M.

Isolation and properties of an antiviral antibiotic, violarine
B. Antibiotiki 6 no.7:603-609 JI '61. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)

BAYKINA, V.M.; KHOKHLOV, A.S.; MAMTOFF, S.M.; SIMITSINA, Z.T.; ANDRIANOVA,
V.T.; RYBAKOVA, R.K.; NAGORNAYA, T.N.

Counterflow distribution for detecting a new streptomycin-like
antibiotic produced by the LS-1 strain of *Str. griseus* (*Act.*
streptomycini). *Antibiotiki* 7 no.2:112-117 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCIN) (ACTINOMYCETES)

BAYKINA, V.M.; BIRLOVA, L.V.; TRAKHTENBERG, D.M.

Comparative study by the method of counterflow distribution of the composition of the antibiotic, Violarix "A" and of the Actinomyces strains No. 452-7 and 12-12. Antibiotiki 7 no.8:698-702 Ag '62.

(MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS) (ACTINOMYCES)

ROZENFEL'D, G.S.; ROSTOVTSEVA, L.I.; BAYKINA, V.M.; TRAKHTENBERG, D.M.
KHOKHLOV, A.S.. Prinimali uchastiye: LOKSHIN G.B.

Albonursin, a substance accompanying the antibiotics nystatin
and albofungin. Antibiotiki 8 no.3:201-207 Mr'63
(MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
i Institut khimii prirodnykh soyedineniy AN SSSR.

BAYKINA, V.M.; ROZANOVA, T.N.; TRAKHTENBERG, D.M.

Studies on the typical composition of erythromycin produced
by strain No. 2577 of *Actinomyces erythreus*. Antibiotiki 8
no.5:466-472 (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

BAYKINA, V.M. [deceased]; MAMIOFE, S.M. [deceased]; ROZANOVA, T.N.; SINITSYNA,
Z.T.; SLUGINA, M.D.; DZEGILENKO, N.B.

Comparative study of neomycin, colimycin and mycerin by the counter-
current distribution method. Antibiotiki 8 no.12:1059-1064 D '63.

(MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

USSR/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29683

Author : Sukhoivanov, V.A., Bayko, A.S.

Inst : The Central Black Earth Zone Agricultural Institute.

Title : The Effect of New Phosphorous Fertilizers on the Summer
Wheat Yield on the Kamennaya Steppe.

Orig Pub : Ukobrenniye i urozhay, 1957, No 1, 36-38.

Abstract : At the Central Black Earth Agricultural Institute in 1955
the following fertilizers were tested: double neutral su-
perphosphate, double powdered superphosphate, magnesium
smelted phosphate, Thomas slag and phosphorus slag.
The fertilizers were applied in the autumn plowing in 30
kg/ha. of P_2O_5 . On ordinary chernozem soil double P_C ,
phosphorus slag, magnesium smelted phosphate, as well as
Thomas slag placed in the plow-land in combination with

Card 1/2

- 23 -

KANIBOLOTSKIY, N.K.; TURAYEV, L.D.; BAYKO, A.V.

~ Results of testing the MBO-5 beet piler. Sakh.prom. 35 no.4:47-51
Ap '61. (MIRA 14:3)

1. Voronezhskiy sovmarkhoz (for Kanibolotskiy). 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut sakharnoy svekly (for Turayev,
Bayko).

(Sugar beets) (Loading and unloading)

^{BAYKO, I.}
CHUPYATOV, I.N., dots.; ~~BAYKO, I.~~ kand. tekhn. nauk.

Magnavolt exciter. Elektrichestvo no.1:1-5 Ja '58. (MIRA 11:2)

1. Leningradskiy institut inzhenerov shelesnodorozhnogo transporta
im. Obratsova.

(Rotating amplifiers)

BAYKO, G.F.

"Postnatal development of diploetic veins in the human skull
base and their connections" by P.N. Koryt'ko. Reviewed by
G.F. Baikó. Arkh. anat., gist. i embr. 43 no.8:119-121 Apr 1962.
(MIRA 17:8)

BAYKO, G. F.

"The Arteries of the Dura Mater of the Human Brain." *Cand Med Sci, Leningrad State Pediatrics Medical Inst, Leningrad, 1953.*
(RZhBiol, No 5, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions (15)

BAYKO, G.F. (Leningrad)

"Aid for conducting practical studies in normal anatomy in medical schools." by N.N.Lavrov. Reviewed by G.F.Baiko. Fel'd. i akush. 21 no.11:59-61 N '56. (MLRA 9:12)

(ANATOMY--STUDY AND TEACHING)

(LAVROV, N.N.)

BAYKO, G.F. (Leningrad, ul. Dekabristov, 52, kv.5)

Age characteristics and variability of the arteries of the
dura mater in the human brain. Arkh. anat., gist. i embr.
42 no.6:88-96 Je '62. (MIRA 15:6)

1. Kafedra normal'noy anatomii (ispolnyayushchiy obyazannosti
zaveduyushchego - prof. V.M. Godinov) Voenno-meditsinskoy
ordena Lenina akademii imeni S.M. Kirova.
(DURA MATER—BLOOD SUPPLY)

BAYKO, G.F., kand. med. nauk (Leningrad)

Importance of the posterior meningeal artery for the collateral
blood flow in the human cerebral dura mater. Vop. neirokhir.
27 no.5:18-21 S-0 '63. (MIRA 17:5)

1. Kafedra normal'noy anatomii Voenno-meditsinskoy ordena Lenina
akademii imeni Kirova.

BAYKO, G.F.; PETROW, B.D.

Reviews. Arkh.anat.gist. i embr. 48 no.3:121-125 M^r '55.

(MIRA 18:6)

AUTHOR: Bayko, V. (Zagorsk)

SOV-107-58-4-38/57

TITLE: The Repair of Heating Appliances (Remont nagrevatel'nykh priborov)

PERIODICAL: Radio, 1958, Nr 4, p 40 (USSR)

ABSTRACT: The author describes a method of joining the ends of a burnt-out heating element, spiral or filament with a strip of steel. This prevents radio interference from domestic appliances, caused by the usual repair method of twisting the ends together, with resultant sparking at the joint.

1. Heating elements--Maintenance 2. Radio interference--Counter-measures

Card 1/1

BAYKO, V. F.

AID P - 1470

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 21/36

Authors : Rabinovich, I. N., Bayko, V. F., Vavilov, A. A., Engs.

Title : Amplidyne regulators with in-phase field (Discussion of the article by O. I. Zolotarev, Elektrichestvo, No.3, 1953)

Periodical : Elektrichestvo, 2, 67-68, F 1955

Abstract : The authors criticize the statement of the problem by O. I. Zolotarev, in which they say he made several incorrect assumptions leading to wrong conclusions. They also criticize the definitions of the basic characteristics of amplidyne regulators. This, they conclude, disqualifies the article for use in the study and testing of this type of electrical machinery.

Institution: Plant "Elektrosila"

Submitted : No date

BAYKO, V F

APPROVED FOR RELEASE BY NSA/CSS ON 06/06/2000

004

Bayko, V.F.

ALEKSEYEV, A.Ye.; BAYKO, V.F., kand.tekhn.nauk; **BOLDYREV, G.L.,** inzh.
NORNEVSKIY, B.I., kand.tekhn.nauk, dots.; **ROSIN, Ye.I.,** inzh.

Comparing the static and dynamic characteristics of two and three-stage longitudinal field rotary amplifiers. Elektrichestvo no.12: 24-26 D '57. (MIRA 10:12)

1.Leningradskiy elektrotekhnicheskij institut im. Ul'yanova (Lenina). 2.Chlen-korrespondent AN SSSR (for Alekseyev). (Electric generators)

D/4 ac, b/c

NORNEVSKIY, B.I., kand. tekhn. nauk; ~~RAYKO, V.F.~~, kand. tekhn. nauk;
SAMOLNEVSKIY, G.K., kand. tekhn. nauk; KUROPATKIN, P.V., inzh.

Selecting circuit parameters for automatic control windings of diesel
electric propulsion equipment. Sudostroenie 22 [i.e.23] no.10:20-31
0 '57. (MIRA 11:2)
(Marine diesel engines) (Ship propulsion, Electric)

8(0)

SOV/112-59-2-2943

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 97 (USSR)

AUTHOR: Chupyatov, I. N., and Bayko, V. F.

TITLE: Two-Commutator Amplidyne
(Dvukhkollektornyy elektromashinnyy usilitel')

PERIODICALS: Sb. Leningr. in-ta inzh. zh.-d. transp., 1957, Nr 155, pp 832-894

ABSTRACT: The operating principle of a new amplidyne, referred to in foreign publications as a magnavolt, is described. The magnavolt comprises a frame with magnetic poles and an armature in whose slots two windings with a different number of poles are laid. Each armature winding has its commutator. The magnavolt magnetic circuit is actually a combination of the magnetic circuits of two machines with a different number of poles (the ratio of pole numbers is always two). The basic circuit diagram of the magnavolt is presented. Input voltage U_{vkh} is applied to a control-stage winding that encompasses all four poles and creates a two-pole magnetization (N-N-S-S).

Card 1/2

SOV/112-59-2-2943

Two-Commutator Amplidyne

The second-stage control winding fed by the two-pole armature winding is situated on the same four poles and creates a four-pole magnetization (N-S-N-S). Output voltage U_{vykh} is derived from the four-pole armature winding. Simplified transient equations of the magnavolt are presented, as well as the results of investigation of a model amplidyne. The operating principle of another magnavolt type, with 3 stages, is described.

B. Ya. G.

Card 2/2

AUTHORS: Nornevskiy, B. I., Docent, Candidate of Technical Sciences, 105-58-3-7/31
Sciences, Bayko, V. F., Candidate of Technical
Sciences, Malishevskiy, V. Ye., Candidate of Technical
Sciences, Kuropatkin, P. V., Engineer, Rosin, Ye. I.,
Engineer

TITLE: Comparison of Two- and Three-Stage
Rototrols (Sravneniye dvukh- i trekhstupenchatykh
elektromashinnykh usiliteley s prodol'nym polem)

PERIODICAL: Elektrichestvo, 1958, Nr 3, pp. 9-14 (USSR)

ABSTRACT: In recent time a series of works with the three-stage
amplifier with longitudinal field were carried out in the
laboratories of LETI, LVINU and LIIZhT. The results of these
investigations are given here. At first the operation
principle of the three-stage amplifier is given and by the
example of a fourpole machine it is shown, how the
amplification stages are formed in a three-stage amplifier.
In the second part a comparative evaluation between the
three-stage amplifier with longitudinal field and a two-stage
amplifier is carried out. On the strength of the given

Card 1/3

Comparison of Two- and Three-Stage Rototrols

105-58-3-2/31

experimental data it is shown that in the case of one and the same magneto system, of approximately equal weight of the effective materials, of one and the same \mathcal{E} - and i_y - the velocity increase of the electromotive force at the output of the three-stage amplifier is higher by the two- to 2,5 fold than in the case of a two-stage amplifier, \mathcal{E} is the compensation degree of the armature reaction by the compensating current i_{24} between the brushes 2-4 in the amplifier armature. On the other hand, the three-stage amplifiers in comparison to the two-stage amplifier are more inclined toward fluctuations and toward self-excitation which is due to the increase of the total amplification factor and the phase lagging. The three-stage amplifier has a somewhat simpler system compared to the two-stage amplifier, Comprisingly it is said that the three-stage amplifier in the case of one and the same control output is more quickly effective compared to the two-stage amplifier and that in the case of one and the same quick effect the three-stage amplifier is controlled by a lower output.

Card 2/3

Comparison of Two- and Three-Stage Rototrols

105-58-3- 2/31

There are 8 figures and 7 references, 4 of which are Soviet

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni Ul'yanova
(Lenina)
(Leningrad Institute of Electrical Engineering imeni Ul'yanov
(Lenin))

SUBMITTED: May 21, 1957

Card 3/3

ALEKSEYEV, A.Ye., prof.; BAYKO, Y.E., kand. tekhn. nauk; NORNEVSKIY, B.I., kand. tekhn. nauk, dots.; MAYDENOV, V.N., inzh.; YUDINA, I.F., inzh.

Selecting parameters for two-stage longitudinal field rotating amplifiers. Sbor. LIIZHT no.159:207-222 '58. (MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Alekseyev).
(Rotating amplifiers)

ALEKSEYEV, A.Ye., prof.; BAIKO, V.P., kand.tekhn.nauk; BOLDYREV, G.L., inzh.;
NORNEVSKIY, B.I., kand.tekhn.nauk, dots.; ROSIN, Ye.I., inzh.;
CHUPIYATOV, I.N., kand.tekhn.nauk, dots.

Internal feedbacks in multistage amplifiers with various numbers
of terminal pairs. Sbor.LIIZHT no.159:232-235 '58.

(MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Alekseyev).
(Rotating amplifiers)

CHUPYATOV, I.N., kand.tekhn.nauk; BAYKO, V.F., kand.tekhn.nauk

Using electric braking in diesel locomotives. Sbor.LIIZHT
no.167:103-121 '59. (MIRA 13:5)
(Diesel locomotives) (Railroads--Brakes)

VASIL'YEV, D.V.; MIKHAYLOV, V.A.; NORNEVSKIY, B.I.; DEMCHENKO, O.P.,
starshiy nauchnyy sotr., kand. tekhn. nauk, retsenzent;
MURATOV, I.I., dots., kand. tekhn. nauk, retsenzent;
REYNGOL'D, Yu.A., kand. tekhn. nauk, dots., retsenzent;
BAYKO, V.F., kand. tekhn.nauk, dots., nauchnyy red.; KLIMINA,
Ye.V., red.; KRYAKOVA, D.M., tekhn. red.

[Automatic control systems for ships] Sudovye avtomatizirovan-
nye ustanovki. Leningrad, Gos. soiuznoe izd-vo sudostroit. pro-
nyshl., 1961. 595 p. (MIRA 15:2)
(Marine engineering) (Automatic control)

S/196/62/000/004/019/023
E194/E155

AUTHOR: Bayko, V.F.

TITLE: ← Methods of assessing the operating properties of a three-stage amplidyne intended for use in the electrical transmission circuits of a diesel-electric locomotive

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.4, 1962, 5, abstract 4 L21. (Sb. tr. Leningr. in-t inzh. zh.-d. transp., no.175, 1961, 10-41). ↙

TEXT: The theory and test data of a multi-stage amplidyne are given. Amplidynes are classified according to the operating principles of the amplifier and its service properties. It is advisable to make an additional assessment of the dynamic properties of the amplifiers by determining the maximum rate of voltage increase and delay time, as shown in the figure, where $\tan \alpha$ is the maximum rate of rise of voltage and t_3 is the delay time. It is advisable to assess the initial part of the transient process by introducing the speed response. This is the differential coefficient of the output magnitude of the

Card 1/2 ?

Methods of assessing the operating ... S/196/62/000/004/019/023
E194/E155

amplifier and is equal in order to the number of cascades of amplification. The frames of high-speed amplifiers should be laminated because the use of a solid frame considerably impairs the dynamic properties of the amplifier and the rate of rise of voltage is approximately halved. If the amplifier has different numbers of pole-pairs in different stages of amplification, additional means can be used to increase the speed by altering the structural components. To improve the quality of railway automatic equipment it is advisable to extend the types and properties of amplidynes and to develop an amplifier for combined d.c. and a.c. using semiconductors. 15 figures, 3 literature references.

[Abstractor's note: Complete translation.]

Card 2/5 2

BAYKO, V.F., kand.tekhn.nauk, dotsent

Methodology for evaluating the operational features of a three-stage
amplidyne for use in the electrical transmission system of diesel
locomotives. Trudy LIZHT no.175:10-41 '61. (MIRA 15:12)
(Diesel locomotives—Electric equipment)(Rotating amplifiers)

BAYKÓ, V.F. (Leningrad)

Effect of the shunting of the compensating winding on the
dynamic properties of three-stage amplidyne amplifiers.
Elektrichestvo no.11:63-65 N '63. (MIRA 16:11)

OSADCHIY, V.Ya.; FOMENKO, Yu.Ye.; YERIKLINTSEV, V.V.; BAYKOV, V.P.

Metal pressure on piercing mill rolls. Izv.vys.ucheb.zav.; chern.
met. no.7:103-110 '60. (MIRA 13:8)

1. Moskovskiy institut stali.
(Rolling (Metalwork)) (Pipe mills)

BAYKO, V.F., kand.tekhn.nauk (Leningrad)

Additional factors in the evaluation of the dynamic stability of
amplidynas. Elektrichestvo no.9:73-76 S '63. (MIRA 16:10)

BAYKO, V.F. (Leningrad)

Stabilizing features of nonsymmetrical amplidyne amplifiers.
Elektrichestvo no.12:58-60 D '63. (MIRA 17:1)

CA BAIKO, J. P.

The influence of forest strips on the soil. V. I. Baiko and A. S. Gushulenko. *Pochvovedenie* (Pochvoved.) 1949, 313-34.—The soils of the forest strips at Kamenmaya steppe, government of Voronezh, were investigated with reference to their hydrologic and phys. properties as affected by the width of the shelter belts, which varied from 100.5 m. to 6.4 m., and the age of these, 47 to 2 yrs. The forest floor begins to accumulate org. matter when the forest plantings reach the age of 5 yrs. A gradual increase in org. matter of the horizon takes place, the carbonate layer is lowered in the profile, and the structure is improved. The wider the strips of forest the higher the humic acid content. There is more humic than fulvic acid in the org. matter of the soils of the forest strips.
J. S. Joffe

SO: Pochvoved., No. 6, 1949.

BAYKO, Vasily Paramonovich

"Improving the Construction of Agricultural Machines and Equipment,"
Sov. Agron, No. 5, 1949.

Inst. Soils im. V. V. Dokuchayev, Dept. Geologico-Geog. Sciences,
Academy of Sciences.

1. BAYKO, V. P.; YAROVENKO, V.
2. USSR (600)
4. Soils-Analysis
7. Problem of early spring tillage of the soil. Pochvovedenie. No. 10, 1952.

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

BAYNE, J.F.

USSR (600)

"'Black' fallow tillage and sowing screen plants." Kolkh, proizv. 12, no. 7, 1952.

1. RAYKO, V. VASIL'YEVA, K
2. USSR (600)
4. Grasses
7. Effect of the sowing season on the yield of perennial grasses. Sel. 1 sem¹² D '52.

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

Bayer, V P

✓ The importance of the subfertilizable layers of black soils to plant nutrition. N. M. Lazarev, V. N. Bylinkina, A. N. Pertseva, and V. P. Balko. *Trudy Vsesoyuznogo Nauchno-Issledovatel. Inst. Sel'skokhoz. Mikrobiol.* 8, 14-21 (1963).—Preliminary set of expts. was made with following 3 types of soil: (1) Southern black soil of the South-Eastern Inst. of Grain Economy with soil layers 0-18, 18-27, and 28-50 cm. deep; (2) humus-carbonaceous soil from the Leningrad-Kingiseppsk region, with soil layers 0-20, 21-35, and 36-50 cm. deep; (3) midargillaceous loamy soil from the Lakhta station of the Leningrad region, with soil layers 0-18, 19-35, and 36-50 cm. deep. It was found that total N values decreased with the depth of soil layers; the nitrate N was of equal value in the upper 2 layers of soil (1) and considerably reduced in the 28-50 cm. layer. In the podzolic soil, the biol. activity, which is generally low in the upper layers, is practically absent in the deeper soil layers. The second series of plant-growing expts. were carried out in pots 20 cm. high when individual soil layers were tested and in pots 60 cm. high when the total 3 soil layers were tested integrally. Plant yields in dry wt. were practically the same in each of the 3 soil layers at normal pH. When the pH was lowered the yield in the subarable layers was reduced. In the 60-cm. pots, in which the total of 3 soil layers were tested, the yield in the case of soil type (1) was greater than the total of the yields of its individual constituent layers. In the podzolic soil the yield of the entire 3-layered test was smaller than in the single 0-17 cm. layer owing to the fact that the root system extended into the poorer lower soil layers. Knowledge of this has an important bearing on the application of deep-soil fertilization and microbioactivation in different crops, especially in the case of perennial grasses.

B. S. Levine

(2)

BAYKO, V. P.; YAROVENKO, V. V.

Agricultural Machinery

Evaluation farm implements for early spring tillage. Sov. agron. 11, No. 3, 1953.

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

LAZAREV, N.M.; BYLINKINA, V.N., kandidat biologicheskikh nauk; PERTSE-
VA, A.N., kandidat biologicheskikh nauk; BAYKO, V.P., kandidat
sel'skokhozyaystvennykh nauk.

Importance of the subsoil horizons of chernozem soils in the
nutrition of plants. Trudy Vses. inst. sel'khoz. mikrobiol. 13:14-21
'53. (MIRA 8:1)

(Chernozem soils) (Soil fertility)

Country : USSR
Category: Cultivated Plants. General Problems.

M

Abs Jour: RZhBiol., No 11, 1958, 48825

Author : Bayko, V.P.
Inst : ~~Scientific~~ Research Institute of Agriculture in the
Central Chernozem Belt.
Title : On the Principal Elements in the System of Agriculture
for the Central Chernozem Belt.

Orig Pub: Byul. nauchno- tekhn. inform. n.-i. in-ta s.-kh. TsChP,
1956, No 1, 5-7

Abstract: This article examines the problem of crop rotations
for the regions of the Central Chernozem Belt (types
of crop rotations, alternation of cultures, recom-
mended crops, organization of feed crop rotations).
S.A. Brushlinskiy

Card : 1/1

M-3

BAYKO, V.P.; KOTOV, P.F.; SKACHKOV, I.A.

Fundamental problems concerning the system of agriculture in the central Chernozem zone. Zemledelie 4 no.7:14-24 J1 '56.

(MLRA 9:9)

1. Institut sel'skogo khozyaystva tsentral'no-chernozemnoy polosy imeni V.V. Dokuchayeva.

(Chernozem soils) (Agriculture)

BAYKO, V.P.
USSR/Soil Science - Cultivation, Amelioration, Erosion. J-4

Abs Jour : Ref Zhur - Biol., No 2, 1958, 5804

Author : Bayko, V.P., Khodanovich, M.A.

Inst : Institute of Agriculture of the Central Chernozem Belt
imeni V.V. Dokuchayev

Title : Deep Plowing Without the Moldboard for Corn and Sunflower

Orig Pub : Zemledeliye, 1956, No 9, 73-76

Abstract : The experiment was conducted in the Institute of Agriculture of the Central Chernozem Belt imeni V.V. Dokuchayev in 1954 on an 8-field rotation. The experiment was organized as follows: (1) one surface plowing and then a moldboard plowing with the coulter set at 25-27 cm., (2) two surface plowings and a plowing without the moldboard and at a depth of 25-40 cm., using 5K-35 plows with both the coulter and the moldboard removed. In 1955 Voronezhskaya

Card 1/2

BAYKO, V.P.; ALABUSHEV, V.A., aspirant

Destroying offset weeds by fall plowing. Zashch. rast. ot
vred. 1 bel. 5 no. 8:26-28 Ag '60. (MIRA 13:12)

1. Zaveduyushchiy otdelom zemledeliya Nauchno-issledovatel'skogo
instituta sel'skogo khozyaystva Tsentral'noy chernozemnoy
polosy im. V.V.Dokuchayeva (for Bayko), 2. Nauchno-
issledovatel'skiy institut sel'skogo khozyaystva Tsentral'noy
chernozemnoy polosy im. V.V.Dokuchayeva (for Alabushev).
(Weed control) (Plowing)

BAYKO, V.P., kand.sel'skokhoz.nauk (Pochtovoye otdeleniye Talovaya, Voronezhskoy obl.); ALABUSHEV, V.A., aspirant (pochtovoye otdeleniye Talovaya, Voronezhskoy obl.)

Herbicide 2,4-D in the control of stolonate weeds. Zashch.
rast. ot vred. i bol. 7 no.2:22 F '62. (MIRA 15:12)
(Weed control) (2, 4-D)

AVROY, P.Ya.; AYDALIYEV, Zh. A.; AUEZOV, M.O.; AKHMEDSAFIN, U.M.; BATISHCHEV-
TARASOV, S.D.; BAZANOVA, N.U.; BAISHEV, S.B.; ~~BAYKONUROV, A.B.~~;
BEKTUROV, A.B.; BOGATYREV, A.S.; BOK, I.I.; BORUKAYEV, R.A.; BURLICHENKO,
N.L.; BYKOVA, M.S.; ZHILINSKIY, G.B.; ZYKOV, D.A.; IVANKIN, P.F.;
KAZANLI, D.N.; KAYUPOV, A.K.; ~~ZENSBAYEV~~, S.K.; KOLOTILIN, N.F.;
KUNAYEV, D.A.; KUSHEV, G.L.; L.Y.; L.V.; MASHANOV, O.Zh.; MEDOYEV,
G.T.S.; MONICH, V.K.; MUKANOV, S.; MUSREPOV, G.; MUKHAMEDZHANOV, S.M.;
PARSHIN, A.V.; POZDROVSKIY, S.N.; POLOSUKHIN, A.P.; RUSAKOV, M.P.;
SERGIYEV, N.G.; SIFYULLIN, S.Sh.; TAZHIBAYEV, P.T.; FESENKOV, V.G.;
SHLYGIN, Ya.D.; SHCHERRA, G.N.; CHOKIN, Sh.Ch.; CHOLPANKULOV, T.Ch.

Sixtieth birthday of Academician Kanysh Imantaevich Satpaev. Vest.
AN Kazakh. SSR 15 no.4:58-61 Ap '59. (MIRA 12:7)
(Satpaev, Kanysh Imantaevich, 1899-)

BAYKANUROV, G. A.

PA 33/49T91

USSR/Mining Methods
Mining Equipment

Jul 48

"Rapid Mining at Dzhezkazgan Mines," O. A.
Baykanurov, Engr, 3 pp

"Mekh Trud i Tyazh Rabot" No 7

Subject mine is one of world's largest copper mines. Rapid method described has increased the amount of tunnels dug by 100 meters per month, even in regions where much rock was present. Method based on efficient use of mechanized equipment. Cross section of ore body in Petro-Tsentrall Mine averages 6.25 sq m. Sketches show various details of equipment and its installation.

33/49T91

RAY, C.A.

USSR (600)

"Outstanding experience of the mine administration 31-32."
Gor. zhur. no. 5, 1952.

BAYKONUROV, O.A.; BELYAYEV, A.I.; BOGOMOLOV, V.I.; VANYUKOV, V.A.; GAZARYAN, L.M.;
GILEK, T.P.; GORYAYEV, M.I.; KARCHEVSKIY, V.A.; KLUSHIN, D.N., KUHAYEV,
D.A.; LEBEDEV, B.N.; LISOVSKIY, D.I.; LOSKUTOV, F.M.; MITROPANOV, S.I.;
MOLCHANOV, A.A.; MOSKVITIN, I.N.; OL'KHOV, N.P.; OSIPOVA, T.B.;
PLAKSIN, I.N.; PONOMAREV, V.D.; RUMYANTSEV, M.V.; SOKOL'SKIY, D.V.;
SOKOLOV, M.A.; SPASSKIY, A.G.; STRIGIN, I.A.; SUSHKOV, K.V.;
SHAKHNAZAROV, A.K.; YASYUKEVICH, S.M.

Khosrov Kurginovich Avetisian, obituary. TSvet.met.27 no.3:66-68
My-Je '54. (MIRA 10:10)

(Avetisian, Khosrov Kurginovich, 1900-1954)

.Baykanurov, O.A.

3-1-2/32

AUTHOR: Baykanurov, O.A., Dotsent, Candidate of Technical Sciences,
Director of the Kazakh Mining and Metallurgical Institute

TITLE: Connections With the Sovnarkhoz are Getting Stronger
(Krepnushchiye svyazi s sovnarkhozom)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 1, pp 13-15 (USSR)

ABSTRACT: The article describes the mutual relations between the Kazakhstan Mining and Metallurgical Institute and the Alma-Ata and other Sovnarkhozes.
On the invitation of S.P.Polimbetov, Chairman of the Council of National Economy (Soviet narodnogo khozyaystva), a large group of professors and instructors including I.I.Bok, A.S.Geskin, A.V.Brichkin, V.D.Ponomarev, B.N.Lebedev, and others, is participating in the work of the Sovnarkhoz Economic-Technical Council. The institute again aroused the Sovnarkhozes interest for its needs.

For the purpose of rendering scientific and technical help to the Sovnarkhoz enterprises, the institute's chairs are conducting considerable researches. At the Tekeli Polymetal Mine (Tekeliyskiy polimetallicheskiy rudnik) the highly

Card 1/4

Connections With the Sovnarkhoz are Getting Stronger

3-1-2/32

of the Karaganda Sovnarkhoz (Karagandinskiy sovnarkhoz), and so, for example, for the Karaganda Coal Combine (Karagandinskiy ugol'nyy kombinat), the complex theme: "Discovering rational methods for the exploitation of thin and medium width layers" is being elaborated (supervisor - Professor, Doctor A.S. Popov).

The institute has also a contract with the Balkhash Copper Works (Balkhashskiy mezhplavil'nyy zavod) of the Karaganda Sovnarkhoz. The contract covers electrosmelting of copper concentrates. Preliminary laboratory tests have yielded encouraging results. The institute instructors have offered to the Kounrad Mine (Kounradskiy rudnik) - one of the largest enterprises of the Karaganda Sovnarkhoz to set-up a device for thermal drilling of explosive bore holes and an automatic charger for mechanizing the process of charging the holes with explosives. This equipment is being manufactured at the mine and will be introduced into production later.

At the Dzhezkazgan Mine (Dzhezkazganskiy rudnik) of the same sovnarkhoz the new method of drifting upward has already been introduced. It trebled the speed of drifting.

An expedition of the Chair for Geophysical Methods of

Card 3/4

Connections With the Sovnarkhoz are Getting Stronger

3-1-2/32

Prospecting Economic Minerals headed by Dotsent A.A. Nepomnyashchikh is at present working in the mines of the "Dzhetygarzoloto" Trust (Kustanay economic administrative region). The expedition carries out researches for extending the mining area.

Considerable investigating work for mineral resources in Central and North Kazakhstan is being done under the guidance of Professors N.G. Sergiyev, E.D. Shlygin and G.D. Kushev.

ASSOCIATION: Kazakh Mining and Metallurgical Institute (Kazakhskiy gornometallurgicheskiy institut)

AVAILABLE: Library of Congress

Card 4/4

SOV/127-59-1-6/26

AUTHOR: Baykonurov, O. A. and Kovrigo, A. F., Candidates of Technical
Sciences

TITLE: The Ways of Decreasing Labor Consumption in Stopping
Operations at the Dzhezkazgan Mine (Puti snizheniya
trudoyemkosti i snizheniya rabot na Dzhezkazganskom rudnike)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, pp 23-28 (USSR)

ABSTRACT: The deep blast hole mining system, which was introduced five
years ago in the Dzhezkazgan mine, is analysed in the article.
The results of the experimental delayed and instant blasting
operations are compared in the form of tables. The author
studies the yield of various rock sizes and their variations;
the results of these studies are illustrated by graphs.
The author reaches the following conclusions: A better crush-
ing of the ore can not be obtained by shortly delayed blasting.
Reduction of labor consumption in stopping operations can be
obtained by decreasing the diameter of blast holes to 70 mm,
and increasing the conditional lump size to 800 mm. The
introduction of a 100 cu m scraper could double labor pro-
ductivity. There are 5 graphs, 2 tables and 3 Soviet

Card 1/2

SOV/127-59-1-6/26

The Ways of Decreasing Labor Consumption in Stopping Operations at the
Dzhezkazgan Mine

references.

ASSOCIATION: Kazakhskiy gorno-metallurgicheskiy institut, Alma-Ata (The Kazakh
Mining-Metallurgical Insitute, Alma-Ata)

Card 2/2

BAYKONUROV, O.A., prof.

Objectives of the future development of students' scientific research.
Sbor. nauch. trud. Kaz GMI no.19:3-9 '60. (MIRA 15:3)

1. Direktor Kazakhskogo gornometallurgicheskogo instituta.
(Mining engineering--Study and teaching)

BAYKONUROV, O.A., prof.

Increasing the productivity of mining enterprises. Izv. vys.
ucheb. zav.; gor. zhur. no. 4:157-159 '61. (MIRA 14:6)

(Mines and mineral resources--Congresses)

BAYKONUROV, O.A.; SHARIPOV, V.Sh.

Evaluating the efficiency of mechanizing the production processes
in underground mining. Trudy Inst.gor.dela AN Kazakh.SSR 8:81-86
'61. (MIRA 15:4)
(Mining engineering—Equipment and supplies)

BAYKONUROV, O.A., prof.; KOVRIGO, A.F., dotsent; FILIMONOV, A.T., inzh.

Vibration and combination drilling of holes in hard rocks.

Gor. zhur. no.9:35-37 S '62.

(MIRA 15:9)

1. Kazakhskiy politekhnicheskiy institut, Alma-Ata.
(Boring)

BAYKONUROV, O.A., akademik, prof.; IBRAYEV, Sh.I., kand.tekhn.nauk; VINOKUROV,
L.V., inzh.

Determining the mechanical constants of rocks in studying the seismic
effect of blasting. Ger. zhur. no.8:28-29 Ag '63. (MIRA 16:9)

1. Kazakhskiy politekhnicheskii institut, Alma-Ata.
(Rocks--Testing) (Blasting)

BAYKONUROV, O.A., akademik; IBRAYEV, Sh.I., dotsent; VINOKUROV, L.V., inzh.

Effect of the construction of the working face on the seismic action of a blast. Izv. vys. ucheb. zav.; gor. zhur. 6 no.3:22-26 '63.

1. Kazakhskiy politekhnicheskoy institut. Rekomendovana kafedroy podzemnoy razrabotki plastovykh mestorozhdeniy i otkrytykh gornykh rabot. 2. Akademiya nauk Kazakhskoy SSR (for Baykonurov).

BAYKONUROV, O.A., akademik

Results of the scientific work of the Academy of Sciences of the
Kazakh S.S.R. and future tasks. Vest. AN Kazakh. SSR 19 no.4:8-
26 Ap '63. (MIRA 16:5)

1. Akademik-sekretar' Akademii nauk Kazakhskoy SSR.
(Academy of Sciences of the Kazakh S.S.R.)

BAYKONUROV, O.A.

Draft of the statutes of the Academy of Sciences of the Kazakh
S.S.R. Vest. AN Kazakh. SSR 19 no.9:36-40 S '63. (MIRA 16:11)

1. Akademik-sekretar' Akademi nauk Kazakhskoy SSR.

BAYKONUROV, O.A., akademik

Results of scientific activities in 1963 and immediate tasks of the Academy of Sciences of the Kazakh S.S.R.; report of the Secretary of the Presidium of the Academy of Sciences of the Kazakh S.S.R. Academician O.A.Baikonurov. Vest.AN Kazakh. SSR 20 no.4:16-33 Ap '64. (MIRA 17:9)

1. Akademik-sekretar' Prezidiuma Akademii nauk Kazakhskoy SSR.

BAYKONUROV, O.A.; KOVRIGO, A.F.; KARAZHANOV, D.D.

Simulation in studying blasthole drilling in the Dzhezkazgan
mines. Vest. AN Kazakh. SSR 20 no.12:41-50 D '64
(MIRA 18:2)

ACC NR: AP7007210

(A)

SOURCE CODE: UR/0031/66/000/012/0045/0048

AUTHOR: Baykonurov, O. A. ~~DAVYDASH, I.~~; Vinokurov, L. V.; Karazhanov, D.

ORG: none

TITLE: Method of determining the relative power of various explosives in simulating an explosion

SOURCE: AN KazSSR. Vestnik, no. 12, 1966, 45-48

TOPIC TAGS: chemical explosion, underground explosion, explosive charge

ABSTRACT: In present-day experimental studies on models made of synthetic material, efforts are made to determine the qualitative characteristics of the destruction of rocks by explosions. On the basis of the mechanical characteristics of the equivalent material employed, the explosive commonly used in laboratory explosions consists of 16% mercury fulminate, 55.5% potassium chlorate and 28.5% antimony. An attempt was made to determine the power of this explosive mixture relative to industrial explosives. This was done as follows: first, by measuring the seismic vibrations, a certain fraction of energy was determined for the explosive studied and for an industrial explosive (1 g Tetryl + 0.5 g mercury fulminate, a mixture used in the ED-8-56 electric detonator), whose energy was determined from existing formulas. The comparison method was then employed. This involved measuring the seismic vibrations from the explosive whose energy was known, then the vibrations from the explosive

Card 1/2

ACC NR: AP7007210

whose energy was unknown. Finally, the energy of the seismic wave was calculated for maximum values (obtained from oscillograms) of both explosions, and the ratio of these energies was taken. It was found that the explosive composition used for laboratory tests is 20.5 times weaker than the mixture used in the ED-8-56 electric detonator, and 10-12 times weaker than ordinary underground ammonites (No. 6, 7, etc.). Orig. art. has: 2 figures, 1 table and 8 formulas.

SUB CODE: 19/ SUBM DATE: none

Card

2/2

BAYKOV, A.A.; GONCHARSKIY, L.A.

Gas-discharge pressure recorder. Priborostroenie no.4:31 Ap '56.
(MLRA 9:8)

(Manometer)

BAYKOV, A.A. (Rumynskaya Narodnaya Respublika)

Pulkovo Observatory in 1901-1907. Ist.-astron.issl. no.5:445-456
'59. (MIRA 12:12)

(Pulkovo Observatory)

BAYKOV, Aleksandr Aleksandrovich [deceased]; TUMAREV, A.S., doktor
tekhn.nauk; SHUSHPANOV, L.I., kand.tekhn.nauk; OZERETSKAYA,
A.L., red.isd-va; KARASEV, A.I., tekhn.red.

[Selected works] Isbrannye trudy. Moskva, Gos.nauchno-tekhn.
isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 327 p.
(MIRA 15:2)

(Metallurgy)

GAYKOV, A.I.

23

Gubkin, S. L., A. I. Bolshov, P. A. Sokolov, W. I. Kuznetsov, und I. G. Stugarow.
Experimentelle Fragen der plastischen Deformation von Metallen.
Sammlung von Aufsätzen. [In Russian.] Pp. II + 131. 1906.
 Moscow and Leningrad: Oniz. (Rbl. 2.)

USSR-31A METALLURGICAL LITERATURE CLASSIFICATION

USSR-31A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

PROCESSES AND PROPERTIES INDEX

10

BAYKOV, A. I.

Deformation Caused by Nitrogen-Hardening. G. F. Kosolapov and A. I. Baikov, (Metal Industry Herald, Russia, 1937, vol. 17, No. 1, Jan., pp. 77-80). (In Russian). It is widely assumed that one of the main advantages of the nitrogen-hardening process as compared with ordinary carburizing is the absence of distortion and the very slight volume changes involved. The authors show, however, that the nitrogen-hardening of asymmetrical components over the whole surface, or the hardening of symmetrical work on one surface only leads to considerable distortion. Flat plates of chromium-aluminium steel (105 x 18 x 4.2 mm.) become convex on the hardened surface, whilst plates of the same size in a 0.15% carbon steel exhibit no distortion. Removal of the nitrided layer is a partial remedy for the distortion (for example, concavity decreases from 0.74 mm. to 0.24 mm.) but complete removal is not effected. The volume of the steel increases on treatment with nitrogen, the nitrided layer having a lower thermal expansion than the steel itself. Internal stresses caused by nitrogen-hardening must depend on the difference in elasticity between the nitride layer and the steel. The authors suggest the careful selection of surfaces to be hardened in order that the stresses which arise may counteract each other. The absence of distortion in the low-carbon steel plates is attributed to the different properties of the phases present in this case which are not entirely the same as those present in the alloy steels.

METALLURGICAL LITERATURE CLASSIFICATION

6-27442-1232

APPROVED #	ISSUED BY DIV	COLLECTOR	DATE OF DIV
1	1	1	1

BAYKOV, A.I.

MR

2

Modification of Silumin by Salts. A. I. Baykov (*Litovskoe Delo (Foundry Practice)*, 1938, (5), 23-25; *Chem. Zvest.*, 1940, III, (1), 223).— [in Russian.] The optimum temperature for treatment of Silumin with NaF + NaCl (7:1) is in the range 780°-800° C. The amount of salt used depends on the temperature and is in general 1-3%. At 780° C. a treatment for 5-30 minutes does not affect markedly the structure of the alloy. Treatment with a fused salt mixture produces a very finely dispersed structure, but the process is somewhat more difficult.

1943

BAYKOV, A.

Tsentrobezhnoye Liy'ye Alyum'ni--Yevykh Splavov I Kim Liteynyye Svoystva.
(Centrifugal casting of aluminum alloys and their casting characteristics) Moskva,
Mashgiz, 1950.

107 P. Illus., Diagr., Tables. "Literatura"; P. (109)

On selection of alloys for centrifugal casting, treatment of technological processes appropriate to chosen alloy and casting quantity and the utilization of casting moulds. Book is intended as reference book for technicians and engineers in the field of casting production, as well as students of machine building schools.

BAYKOV, A. I.

U S S R .

Special Features of the Crystallization of Centrifugal Castings.
A. I. Baikov. (*Litinsk Provedeno*, 1954, (6), 26-23). (In Russian). From a consideration of factors influencing the crystallization of centrifugal castings, it is concluded that thermal flow producing directional crystallization, rather than centrifugal force, is the dominating factor.—S. K.

Baykov, A. I.

137-1957-12-23831

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 138 (USSR)

AUTHOR: Baykov, A. I.

TITLE: The Development of the Technology for Bronze and Silumin Castings and the Utilization of Risers Operating Under Increased Gas Pressures (Razrabotka tekhnologii i osvoyeniye pribyley, rabotayushchikh pod povyshennym gazovym davleniyem dlya siluminovykh i bronzovykh otlivok)

PERIODICAL: Inform.-tekhn. sb. M-va elektrotekhn. prom-sti SSSR, 1955, Nr 78, pp 10-28

ABSTRACT: Bibliographic entry

1. Bronze castings-Technology 2. Silumin castings-Technology

Card 1/1

BAYKOV, A. I. and GRICOR'YEV, L. F.

"New Ways to Eliminate Waste in Machining Synthetic Corundum Crystals,"
PAPER READ AT THE meeting of the AU Mineralogical Soc in May 1954.

Zapiski vses Mineral. Obshch., 84, No.2, 1955

BAYKOV, Aleksey Ivanovich, kandidat tekhnicheskikh nauk; KONSTANTINOV, L.S.,
kandidat tekhnicheskikh nauk, retsentsent; KRYLOV, V.I., inzhener,
redaktor; MATVEYEV, Ye.N., tekhnicheskiy redaktor

[Centrifugal casting] Tsentrobrazhnoe lit'ye. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1956. 150 p. (MIRA 10:3)
(Centrifugal casting)

18(5,7)

SOV/128-59-6-23/25

AUTHOR: Konstantinov, L.S., Baykov, A.I., Kanevskaya, T.B.,
Candidates of Technical Sciences; Lebedev, K.P.,
Assistant Professor, Levin, M.M., Novikov, P.G. Rozen-
fel'd. S.Ye. and Khakhalin, P.D., Candidates of Techni-
cal Sciences

TITLE: Letter to the Editor

PERIODICAL: Liteynoye Proizvodstvo, 1959, Nr 6, pp 44-46

ABSTRACT: The authors begin their letter to the author by lis-
ting the difficulties, when explaining the basic terms
of mechanics and generally of every science. Since the
time of Newton there existed difficulties in explai-
ning and formulating correctly the term "power". With
the development of the sciences during the recent
years these difficulties have become even greater. The
Academician, B.N. Yur'yev is quoted from his book "Attempted
new Formulation of the Basic Laws on Mechanics
by Newton", Printing Office Academy of Sciences (USSR)
1952. But these new theories have had no influence on

Card 1/2

Letter to the Editor

SOV/128-59-6-23/25

the practical work of the engineer. In the field of centrifugal casting B.I. Loshkarev has written an article (published in Liteynoye Proizvodstvo, Nr 8, 1957), in which he made the following statement: 1) Metal is not influenced by centrifugal force and, therefore, the existing theories on centrifugal casting, based on centrifugal forces, do not correspond to the physical properties of the process. 2) The theory of centrifugal casting is not confirmed by his experiments; 3) The factors of centrifugal casting are to be explained by other factors, like: tendency forces, speed of chilling, temperature of the metal, process of crystallization. The author refutes the statements of Loshkarev and call his comprehensions "unintelligible" and "unfounded". There are 1 diagram and 9 Soviet references.

Card 2/2

ACC NR: AM6019925

Monograph

UR

Mal'tsev, Mikhail Vasil'yevich (Professor; Doctor of Technical Sciences);
Baykov, Aleksey Ivanovich (Candidate of Technical Sciences); Solov'yev,
Valentin YAKovlevich

Technology of the production of niobium and its alloy (Tekhnologiya
proizvodstva niobiya i yego splavov) Moscow, Izd-vo "Metallurgiya",
1966. . 291 p. illus., biblio. 2100 copies printed.

TOPIC TAGES; niobium, niobium base alloy, metal property, metal physical
property, metal chemical analysis, metal extracting, metal melting, metal welding,
metal machining

PURPOSE AND COVERAGE: This book is intended for scientific workers of research
institutes, design organizations and engineering personnel of plants
engaged in niobium and niobium-base alloy production and use. The
book reviews the physical, chemical and mechanical properties of
niobium and niobium-base alloys. Technological problems of producing
niobium and niobium-alloy semifinished and finished products are
discussed and the principal fields of their use are indicated. Ch. I
is written by A. I. Baykov, Candidate of technical sciences; Ch. II
by A. I. Baykov with the participation of Professor and Doctor of
technical sciences M. V. Mal'tsev; Ch. III by M. V. Mal'tsev with the
participation of A. I. Baykov; Ch. IV by A. I. Baykov and V. Ya.

Card 1/4

UDC: 661.888