

Author: Petrov, Z. I.  
Title: Bibliography of underwater photography. Bibliography. Bibliography of underwater photography.  
Source: Journal of the American Society of Photographic Engineers, 1958, Vol. 4, No. 1, pp. 17-27.  
Notes: The article stresses the importance of underwater photography and gives a list of references on the subject, categorized as follows: underwater photography - 11 references; deep-water photography - 11 references; the practical application of underwater photography - 12 references; diverse aspects of underwater photography - 23 references.

Card 1/1

PETROV, K.M.

"Metallurgy of ferrous metals" by L.D. Burdakov, Z.G. Tsukernik.  
Reviewed by K.M. Petrov. Metallurg No. 5 1979, No. 12. MIR, 15:5.

1. Rukovoditel' gruppy vakuumirovaniya stali UChM.  
(Iron - Metallurgy) (Steel - Metallurgy)  
(Burdakov, L.D.) (Tsukernik, Z.G.)

PETROV, K.M.

"Voprosy geografii." Vol.39. "Physicogeographical regions." Reviewed  
by K.M. Petrov. Izv. Vses. geog. ob-va 90 no.1:89-91 Ja-I '88.  
(Physical geography) (MIRA 11:4)

TSYS', P.N.; KALESHNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSKIY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNISEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLITSE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.S.

Discussion at the conference on studying land forms. Nauk. zap. L'viv. univ., 40:231-267, 1957. (MIRA 11:6)

1. L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin).
2. Laboratoriya aerometeolov AN SSSR, Leningrad (for Sokolov, Miroschnichenko, Petrov).
3. Institut geografii AN SSSR, Moskva (for Armand, Sobolev).
4. Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov).
5. Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova).
6. Komissiya khhrany prirody AN SSSR, Moskva (for Protopopov).
7. Gosudarstvennyy universitet, Chernovtsy (for Rybin).
8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev).
9. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva).
10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin).
11. Gosudarstvennyy universitet, Tbilisi (for Sanblitze).
12. Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev).
13. Torfovo-ekonomicheskii institut, L'viv (for Perevalov).
14. Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas).
15. Muzei zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov).
16. Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

PEROV, A. M. *Can. Geogr. Sci.* -- "Landscapes and biocoenoses of the submerged slope of the Black-Sea shores of the Taman' Peninsula and the northern Caucasus." *Izv. Gos. univ. Kazan. Ser. Geogr. i Est. Prirod. Nauk*, 1961 (Len. Order of Lenin State Univ. at A. A. Zhdanov). (21, 4-61, 189)

[Faint, mostly illegible typed text, possibly a memorandum or report. Some words like "SECRET" and "X-100" are faintly visible.]

137-1-1/24

Smelting of Tube Steel by the Scrap Process from a Low-manganese Iron at Different Manganese Practices

the manganese content of metal by additions of ferro-manganese does not protect the boiling bath from over-oxidation and leads to a contamination of steel by non-metallic inclusions. 3) Under normal conditions of pure boiling (with normal slag and reduction of manganese) and using low-sulphur fuel smelting of steel by the scrap process from low-manganese pig and without ferromanganese additions is not accompanied by a decrease in the degree of dephosphorisation and desulphurisation of metal or by a deterioration in the strength and plastic properties of steel (in particular, at negative temperatures, up to  $-60^{\circ}\text{C}$ ). 4) The degree of oxidation and desulphurisation of steel and the proportion of rejects and mechanical properties of metal are independent from the absolute content of manganese in the metal during the course of smelting. 5) The investigation confirmed that the change introduced into the technological instruction, i.e. that the manganese content in metal during the course of smelting, including the period of pure boiling, does not necessarily need to be strictly controlled, is rational. N.I. Lebedkin, B.P. Okhrimovich and others, members of the staff of the Works and Institute participated in the work. There are 5 tables, 8 figures and

Card4/5

PETROV, K.M.

Submarine photography. Zhur.nauch. i prikl.fot. i kin. 3 no.6:  
473-475 N-D '58. (MIRA 11:17)  
(Bibliography--Photography, Submarine)



PETROV, K.M.

Littoral flora of the Black Sea in the Northern Caucasus and Taman'  
Peninsula areas. Report No.2: Characteristics of the phytocoenoses  
in the sublittoral stony soils. Vest.LGU 16 no.12:116-134 '61.  
(MIRA 14:6)

(Plant communities)

ORLOV, S.I.; KHUDYAKOV, A.N.; KRIVONOSOV, V.S.; FADEYEV, P.V.;  
PETROV, K.M.; D'YAKONOV, V.A.

At the Ural Research Institute of Ferrous Metallurgy. Stal'  
21 no. 4:366,371,383 Ap '61. (MIRA 14:4)  
(Rolling mills—Accounting) (Steel—Metallurgy)

PETROV, K.M.

Study of submarine vegetation for geological interpretation of  
aerial photographs of the Black Sea littoral at the coast of  
the Northern Caucasus. Trudy L.b. aeromet. 10:35-46 '60.

(MIRA 14:1)

(Black Sea—Marine flora)

(Photographic interpretation)

22319

S/133/61/000/004/015/015  
A054/A127

183200

AUTHORS: Petrov, K. M., D'yakonov, V. A.

TITLE: Vacuum treatment of open-hearth furnace alloy steel

PERIODICAL: Stal', no. 4, 1961, 383

TEXT: At the kombinat im. A. K. Serova (Integrated Plant imeni A. K. Serov) a great amount of open-hearth alloy steel was produced in a 90-ton ladle at a residual pressure of 3 - 8 mm pressure/merc. ccl. When vacuum-treating the metal jet during pouring over from one ladle to another, in this case of non-reduced WX<sup>15</sup> (ShKh<sup>15</sup>) steel, melted in an acid open-hearth furnace with an addition of 45%-ferrosilicon and aluminum the amount of oxide inclusions of a 90-mm<sup>2</sup> ingot is reduced to 0.50 points. The whole melting process has been cut down to 30 minutes by carrying out the oxidization process directly in the vacuum installation and not in the furnace. The globular inclusions were reduced to 0.40 points by oxidization with calcium-silicon and vacuum treatment of the molten metal jet. the life of ball bear-

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22319

Vacuum treatment of open-hearth furnace...

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A054/A127

ings made from vacuumized ShKh15 steel increases by 70%. Rejects of the steel grade 38XMOA (38KhMYuA) due to surface rejects could be reduced from 14.0 to 6.45% by vacuum treatment of the steel in the ladle. No flake formation could be noticed in 37XC (37KhS) steel, which also was vacuum-treated. At the Chelyabinskiy metallurgicheskiy zavod (Chelyabinsk Metallurgical Plant), vacuumized siphon pouring was applied in the casting of steel ingots of the 18XHBА (18KhNVA) steel grade, weighing 1,15 kg. Improved macrostructure and reduced reject rates due to intercrystalline cracks have been achieved. ✓

Card 2/2

PETROV, K.M.

Biocoenoses associated with loose grounds of the submarine slope  
of the Taman Peninsula in the Black Sea. *Zool. zhur.* 40 no.3:318-325  
Mr '61. (MIRA 14:3)

1. Laboratory of Airemethods of the U.S.S.R. Academy of Sciences,  
Leningrad.

(Taman Peninsula region ~~region~~ Benthos)

PETROV, K.M.

Submarine vegetation of the Northern Caucasus and Tatars' Peninsula littoral of the Black Sea. Vest. LGU 15 no.18:124-143 '60.  
(MIRA 13:9)

(Black Sea--Vegetation and climate)

PETROV, K.M.

"Atlas of oceanographic materials for a fish-locating map of  
Southern Sakhalin and the southern Kuriles." Vols. 1,2. Reviewed  
by K.M. Petrov. Izv.Vses.geog.ob-va 90 no.5:480-481 S-0 '58.  
(MIRA 11:11)

(Okhotsk, Sea of--Submarine topography)



07-1018-17-1/10

14-100

AUTHORS: Ie'rov, K.M., and Kanun, P.Ye., Engineers

TITLE: The Don Main Canal in Service (Donskoy magistralnyy kanal vveden v deystviye)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, 4, pp. 14-18 (USSR)

ABSTRACT: The authors give data on the newly constructed second section of the Don Main Canal project (85 km in length). The total length of the first two sections is 112 km. As for the project's third section, the Proletarskaya vetv' (Proletarskaya arm), its construction has just started. The new canal now constitutes a single water system along the valleys of the river Sal, the western stretch of the river Manych, and the lower Don. It will perform the following functions: 1) irrigate 40,000 hectares by the Bogayevskiy and Sadkovskiy main canals; 2) irrigate 13,500 hectares by the Proletarskiy arm; 3) soften the Sal river water and water some 80,000 hectares and 4)

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The Don Main Canal is in Service

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maintain the Veselovskiy reservoir water level and making its water softer in order to supply the Arvo main canal, with its irrigation area of 1000 hectares, in operation. The Don Main Canal starts at the Tselnyanskoye reservoir and ends by flowing into the Dnieper valley. Its capacity varies between 100 m<sup>3</sup>/sec at the start and 80 m<sup>3</sup>/sec, reaching at the siphon

point 110 km. The earth-moving work has been fully mechanized. The following figures are quoted to illustrate the work volume of the project's second section:

- 1) total volume of earth moved - 29,000,000 m<sup>3</sup>;
- 2) total volume of concrete and reinforced concrete - 133,000 m<sup>3</sup>;
- 3) total weight of metal frames - 78,000 tons, and 4) total area of paved surface - 106,000 m<sup>2</sup>.

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The Don Main Canal is in Service

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The new canal, 100 km long, features a 100 km twin tunnel traversing the Don-Bal rivers watershed and a 1.5 m triple siphon just beneath the Bal river bed, each just below 6.5 x 6.5 m in profile. There are 2 photos, 1 diagram and 1 map.

ASSOCIATION: Rostov, Novokray

Card 1/1

PETROV, M.P.; PETROV, K.M.

Useful manual for botanists and geographers ("Introduction to the botanical literature of the U.S.S.R." by D.V. Lebedev. Reviewed by M.P. Petrov, K.M. Petrov). Izv.AN Turk.SSR no.2: 131-133 '57. (MLRA 10:5)

1. Turkmenskiv gosudarstvennyy universitet.  
(Phytogeography) (Lebedev, D.V.)

SYROVATKO, F.A.; PETROV, K.M.

Analysis of data on preventive gynecologic examination of the female population. Sovet. med. 17 no.6:40 June 1953. (CLML 24:5)

1. Professor for Syrovatko. 2. Of the Obstetric-Gynecological Clinic, Stalingrad Medical Institute and of Stalingrad Oblast Oncological Dispensary.

PETROV, K.M.

Submarine landforms of the Black Sea coast of the Northern Caucasus  
and the Taman Peninsula. Izv. Vses. goeg. ob-va 92 no. 5: 392-405  
S-O '60. (MIRA 13:9)

(Black Sea--Submarine topography)

L 04007-67 ZWT(1)/EWT(m) SCTR P/0000  
ACC NR: AT6024957 (N) SOURCE CODE: UR/0000/65/000/000/0034/0041

AUTHOR: Petrov, K. M.

ORG: none

TITLE: Use of water diving investigations and aerial methods to study the underwater vegetation of seas

SOURCE: AN SSSR. Okeanograficheskaya komissiya. Sektsiya podvodnykh issledovaniy. Razvitiye morskikh podvodnykh issledovaniy (Development of underwater marine research). Moscow, Izd-vo Nauka, 1965, 34-41

TOPIC TAGS: aerial photography, ocean floor topography, underwater photography, photo interpretation

ABSTRACT: In discussing the virtues of underwater investigations of the sea by means of diving suits and aqualungs the author points out that this method has its faults owing to poor horizontal visibility under water, difficulty of movement, limited stay in the water, and the small areas of the sea bottom that can be investigated. However, this method can be supplemented by aerial photography of the sea bottom. The value of aerial photographic surveying is that it accurately depicts the contours of the underwater plant cover of large bodies of water.

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Maximal information on the plant cover of the marine bottom is obtained from aerial photographs only when the structure of the underwater landscape as a whole is taken into account when interpreting the photographs. The primary task of interpretation is to distinguish the boundaries of natural complexes on the photographs. This is accomplished in two stages. At first the areas characterized by different types of images are outlined. Individual natural complexes have specific morphological features and can be recognized by the character of the images on the aerial photographs. Then the final and reliable interpretation of the boundaries of the natural complexes is done during field (marine and water diving) investigations. Details of the structure of the underwater vegetation within natural complexes, ecotopes, revealed by aerial photographs, are studied directly on the marine bottom by diving. The purpose of the underwater investigations is to learn the characteristics of the phytocenoses, to describe the environmental conditions, and reveal the patterns in the distribution of the phytocenoses. Three methods of underwater work are recommended: 1) the investigated body of water is covered with a network of stations which are scattered or arranged in rows along certain routes. At the point of observation the ship is anchored and a diver descends to the bottom and examines a region equal to the area of a circle having a radius of 100 m; 2) transectional lines are laid out along the marine bottom. The diver enters the water and, moving along a tape measure, makes his observations. The bottom is examined continuously and when necessary the diver signals the sloop to stop and the researcher studies the vegetation; 3) rectangular areas (100 x 200 m) are marked out on the bottom by tape measures and on the surface by buoys. The diver

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ACC NR: AT6024957

swims between the marked out lines and studies the vegetation. These underwater investigations are used to gather material for the interpretation of the aerial photographs. Orig. art. has: 4 figures.

SUB CODE: 14,08/ SUBM DATE: 06Dec65/ ORIG REF: 008/ OTH REF: 006

EH  
Card 3/3

PETROV, K.N., *formy inzhener; O.LOV. 1.1.*

Uchinaya shkola to znanii v oblasti *Al'tyn-Topkash*. Ser. 1. 1945.  
no.3:37-40. Kr. 163.

1. Tsentral'nyy nauchno-issledovatel'skiy *pernornavatsionnyy* insti-  
tut tsvetnykh, redaktsiya *prilozheniya metallov*, askva "Per Petrov".
2. Direktor *Al'tyn-Topkashskogo nauchno-issledovatel'skogo Orlov*.

*17120V1A*  
BABENKO, A.A., inzh.; PETROV, K.M., inzh.

Calculating the heating of an a.c. conductor in transient short circuit. Vest. elektroprom. 29 no.2:69-72 F '58. (MIRA 11:3)

1. Khar'kovskiy elektromekhanicheskiy zavod.  
(Electric conductors) (Short circuits)

110-2-19-22

**AUTHORS:** Babenko, A.A. (Engineer) & Petrov, K.N. (Engineer).

**TITLE:** Heating calculations on a.c. conductors under transient short-circuit conditions. (K raschetu nagreva provodnikov peremennogo toka v neustanovivshemysya rezhime korotkogo zamykaniya.)

**PERIODICAL:** Vestnik Elektropromyshlennosti, 1958, No.2, pp.69-72 (USSR)

**ABSTRACT:** This is a mathematical article on the calculation of temperature rise in a conductor during the passage of excess current for a brief period. The equations assume that no heat is lost during the process. Expressions are derived for the maximum and minimum values of the time integral of the square of the current. These may be written in different ways, depending on the conditions, and values of a constant entering into the equations are tabulated. By way of example, a calculation is made of the time required for a fuse to interrupt a circuit. Calculated and experimental results are compared in Fig.1. and good agreement is claimed. There are 4 figures, 2 tables, no literature refs.

**ASSOCIATION:** Khar'kov Electro-mechanical Works. (Khar'kovskiy elektromekhanicheskiy zavod.)

**AVAILABLE:** Library of ONI

Card 1/1

KLISYBOK, Ya.I., doktor veterinarnykh nauk, professor, zasluzhenny  
deyatel' nauki Kaz.SSR; PETROV, K.N., kandidat veterinarnykh nauk.  
PETROV, V.M., mladshiy nauchnyy sotrudnik.

Treatment of bronchopneumonia in calves by intratracheal injections  
of penicillin during a special diet. Veterinariia 30 no.9:34-39  
5 '53. (MLRA 6:8)

1. Sektsiya veterinarii Kazakhskogo filiala Vsesoyuznoy Akademii  
sel'skokhozyaystvennykh nauk imeni Lenina.

KLEYNBOK Ya.I., prof.; FLOTOV, V.M., kand.veterinarnykh nauk; FLOTOV, K.B.,  
kand.veterinarnykh nauk

Protein and vitamin deficiencies as factors in animal diseases.  
Trudy AZVI 9:121-138 '56. (MIA 1956)

1. Iz kafedry chastnoy patologii i terapii (zav. kafedroy - chlen-  
korrespondent AN KazSSR, zaslužnennyy deyatel' nauki KazSSR, doktor  
prof. Ya.I.Kleynbok) Alma-Atinskogo zooveterinarnogo instituta.  
(Veterinary medicine) (Proteins) (Vitamins)  
(Deficiency diseases)

USSR/Fern Animals. Small Horned Cattle

Q-3

Abstr Jour : Ref Zhur - Biol., No 11, 1958, No 50036

Author : Klaynbek, Ya.I., Petrov V.M., Petrov K.N.  
Inst : All-Union Zoological Institute of Veterinary Sciences.  
Title : Protein and Vitamin Deficiency in the Diet of Animals as Disease Factors.

Orig Pub : Tr. All-Union. zoovet. in-ta, 1956, 9, 121-138

Abstract : An experimental group of cows whose diet lacked the necessary amounts of proteins and vitamins, received the following concentrates starting with the last third of their pregnancy: 480-240 units of vitamin A; 50 thousand units of vitamin D, and 1 mg of vitamin E. In addition to their fodder, calves from these cows received 20 thousand units of vitamin A every 5-10 days, 50 thousand units of vitamin D once every 5 days, and 100-250 mg of ascorbic acid daily for the first 7 days of their lives. Control group did not receive any vitamins. In the experimental group calving required assistance during labor in 63.2 percent of the cases, in

Card : 1/2

22-111-1-12  
Petrov, Konstantin Petrovich

Sen Sci Assoc

Biological Chemistry

VAK, Prot No 14, 20 June 48

BMVO 10/48



CA PETROV K I P

21

Therapeutically usable fat from the liver of the thorn-  
back (*Raja clavata*). K. P. Petrov. *Rybnoe Khoz* 24,  
no. 6, 619418, *Chem Zvez* (Russian Zone Ed.) 1949  
1: 1458. The liver of *Raja clavata* is 0.5% of the fresh  
body wt. of this sea animal. Its fat content is 60.4-65.6%.  
The fat is similar to that from the liver of *Trigloporus pastinacus*  
of *Rybnoe Khoz* 23, No. 61947-1. The characteristics  
are sapon. no. 170, sapon. no. 171, and unsaponifiable  
matter 1.55%. It has a high vitamin A content and should  
be useful as a medicinal. M. G. Moore.

PETROV X P

Pvavikhave peski (the shifting of sand regions) custom soyuz  
ssr boriv a kimi. moskva geografiz. 1950 455 r. sriak 15" ol  
zdyag i i terapy p. 418-(42)

PETROV, K.P.

Refractometric determination of the proteolytic activity of yeast,  
flour, and malt. Izv. vys. ucheb. zav.; pishch. tekhn. no.3:150-  
155 '58. (MIRA 11:9)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promyshlennosti  
imeni A.I. Mikoyana, Kafedra organicheskoy i biologicheskoy khimii.  
(Fermentation) (Proteins)

PETROV, K.P.

Refractometric determination of the diastatic activity of  
flour, malt, and other vegetable products. Izv.vys.ucheb.zav.:  
pishch.tekh. no.6:128-136 '58. (MIRA 12:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti  
Kafedra organicheskoy i biologicheskoy khimii.  
(Food) (Fermentation) (Refractometry)

PETROV, K.P.

Refractometric method for determining the activity of beta-fructosidases in yeast, flour, malt and other vegetable products.  
Izv.vys.uceb.zav.; pishch.tekh. no.5:143-148 '59. (MIRA 13:4)

1. Kiyevskiy tekhnologicheskoy institut pishchevoy promyshlennosti,  
kafedra organicheskoy i biologicheskoy khimii.  
(Fructosidases)

PETROV, K.P.

Effect of some hydrogen carriers on grain growth. Izv. vys. ucheb.  
zav.: pishch. tekhn. no. 2:27-32 '61. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennost'.  
(Hydrogen) (Grain)

PETROV, K.P.

The "Zimograf" apparatus for determining the fermentation activity of yeast and its use for the study of the activating action of amber acid. Izv.vys.sheh.zav.; pishch.tekh. no.4: 157-159 '62. (MIRA 1<sup>st</sup> 11)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti, kafedra organicheskoy i biologicheskoy khimii. (Fermentation--Apparatus and supplies) (Yeast--Testing)

PETROV, K.P.

Yeast activation during alcohol fermentation by reduced  
glutathione. Izv. vys. ucheb. zav.; pishch. tekhn. no.6:34-  
36 '63. (MIRA 17:3)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyslennosti, kafedra biokhimi i mikrobiologii.



PETROV, K.P.

Relation between pulmonary ventilation capacity and  
bronchospasm. Trudy Izhevskogo med. inst. 21-88-92 '51.

Effect of bronchospasm on the volume of the lungs and the  
amount of air and blood in them. 1951, 1952.

(MIRA 1951)

1. Kafedra patologicheskoy fiziologii (zav. - dotsent Ye.G.  
Kuz'mina) Izhevskogo meditsinskogo instituta.

PETROV, K.P.

Determination of the effect of the inhibitors and  
inhibitors on the stability of the...  
II no. 1991... MFI 17...

I. Kiyevskiy...  
promyshlennosti.

NETROV, Konstantin Petrovich; AKNISOVICH, N.A., kand. tekhn.  
nauk, spets. red.; GOROVA, I.I., red.

[Practical laboratory work on the biochemistry of  
vegetable raw materials] Praktikum po biokhimii pi-  
shchevogo rastitel'nogo syr'ia. Moskva, Pishchevaia  
promyshlennost', 1964. 329 p. (MIRA 18:7)

ESTERZON, M.A.; PETROV, K.P.

Cutting-tool equipment used on the turning section of automatic gear-  
machining line. Stan.1 instr. 30 no.3:7-10 Mr '59. (MIRA 12:3)  
(Gear-cutting machines)

ACC NO: 111174

SOURCE CODE: UR/0146/66/009/001/012/0014

Author: Zolotarev, K. S.

Institute of Electrotechnical Institute of Communications im. Prof. K. A. Bonch-Bruyevich (Leningradskiy elektrotekhnicheskiy institut svyazi)

Title: Analyzer of a fundamental speech tone

Source: Izv. Priberostroyeniye, v. 9, no. 5, 1966, 12-14

Topic TAGS: speech signal, audio signal, analyzer

ABSTRACT: A device for observing fundamental speech tone is described. The CRT is used as a display unit. A vertical deflection oscillator is synchronized with the frequency of the fundamental tone and the oscillator output voltage, after being amplified by a paraphase amplifier, passes to vertical deflection plates. Horizontal deflection plates are fed by regular sawtooth pulses with a period of 1-10 sec. The speech signal is fed to the CRT cathode. An image of the speech signal is formed on the CRT screen. Horizontal variation denotes time; vertical variation, duration; and variations in brightness indicate the instantaneous value of the speech signal. Orig. art. has: 2 figures.

DOC CODE: 11, 00/ SUBM DATE: 18Jan66/ ORIG REF: 002/ OTH REF: 001 AID PAUSE:

UDC: 621.317.199

Petrov, B. V.

Distr: 4E2c(j)

<sup>15</sup> Vinyl plastic sheets for lining of concrete tanks. K. V. Petrov. U.S.P.R. 102,612, Apr. 30, 1956. To line concrete tanks with vinyl plastic sheets and to improve the adhesion of the lining to the concrete, the hot sheets are sprinkled with preheated sand, and the latter is pressed into the sheets by working with a roller. L. Hoch

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Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, pp 67-72  
SOV/137-59-7-6711

AUTHORS: Sorokin, P.Ya., Petrov, K.M., Eskin, A.I.

TITLE: The Problem of Vacuum-Degassing of Steel for Electrical Engineering Purposes

PERIODICAL: Tr. In-ta metallurgii. Ural'skiy fil. AS USSR, 1958, Nr 2, pp 67 - 72

ABSTRACT: The Institute of Metallurgy UFAN USSR together with the Verkh-Issetskiy Plant investigated the effect of vacuum treatment on the quality of transformer steel smelted in a basic electric furnace. Vacuum treatment was carried out under laboratory conditions in a chamber containing a ladle of ~ 40 kg capacity filled with metal. The metal was kept in the chamber for 8 - 10 minutes with a vacuum of 97 - 98%. Experiments were carried out with vacuum treatment of liquid steel in a 500-kg mold during the siphon-filling process. The experimental mold was equipped with a flange in its upper section to fasten the cover. The mold

and 1/3

007/37-59-5-9971

The Problem of Vacuum-Degassing of Steel for Electrical Engineering Purposes

was filled within 2 - 2.5 minutes under violent effervescence of the metal. The vacuum was on the average 425 mm Hg. Under industrial conditions, vacuum treatment was performed in a chamber holding a 20-ton ladle with liquid metal. During rarefaction of 650 - 700 mm Hg a violent gas liberation occurred during 3 - 4 minutes, accompanied by a boiling of the metal and ascent of the slag. Ten minutes after vacuum treatment, bubbling continued only there where the slag contacted the lining of the ladle. Gases pumped out of the chamber contained  $CO_2$ , CO,  $H_2$  and  $H_2S$ . Heavy corrosion of the refractory lining of the ladle and the stopper coils was observed 8 - 10 minutes after the vacuum treatment began. This limited considerably the duration of the vacuum treatment. Metal subjected to vacuum treatment in a laboratory chamber, or during filling of the mold, showed a reduction of  $[H]$  and improved bending characteristics. It was noted that vacuum treatment of large metal masses did not considerably improve the quality of the metal. It is pointed out that this is caused by the secondary saturation of the metal with  $[H]$  during its contact with the refractories within the siphon. It was established that vacuum treatment of metal in a ladle promoted the refinement of the grain structure.

and 2/3



30V/137-59-5-997.

The Problem of Vacuum-Degassing of Steel for Electrical Engineering purposes.

steel. Conventional ingots had uniform transcrystallization, while vacuum-  
cast ingots had a uni-axial crystalline structure. As a result of vacuum  
treatment [H] was reduced by 25 - 40%, and the amount of non-metallic im-  
purities by 25 - 30%.

V F

Card 3/3

ALEKSEYEV, G. A., prof.; PETROV, K. Ya.

Use of sarcolysin in multiple myeloma. Probl. gemat. i perel.  
krovi no.12:3-10 '61. (MIRA 15:6)

1. Iz 3-y kafedry terapii (zav. - chlen-korrespondent AMN SSSR  
prof. I. A. Kassirskiy) Tsentral'nogo instituta usovershenst-  
vovaniye vrachey (dir. M. D. Kovrigina)

(SARCOLYSINE) (MARROW—TUMORS)

PETROV, K. Ya.

Dopan treatment of lymphogranulomatosis, chronic lymphatic leukemia and other systemic blood diseases. Sov. med. 25 no.11:13-17 N '61.

(MIRA 15:5)

1. Iz kafedry terapii Tsentral'nogo instituta usovershenstvovaniya vrachey (zav. - člen-korrespondent AMN SSSR prof. I.A. Kas irskiy) i Tsentral'noy klinicheskoy bol'nitsy imeni N.A. Semashko Ministerstva putey soobshcheniya (nachal'nik A.A. Potsubyanko), Moskva.

(DOPAN) (LEUKEMIA) (HODGKIN'S DISEAS)

PETROV, K.Ya.

Dipin in the treatment of chronic lympholeukemia. Terap. arkh.  
33 no.2:102-107 P '61. (MIRA 14:3)

1. Iz 3-y kafedry terapii (zav. - chlen-korrespondent AMN SSSR  
prof. I.A. Kassirskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(LEUKEMIA)

(PIPERAZINE)

Кочев, К., инж.; Петров, Л., инж., Петков, П.С. тех.

Covered canals, water pipes in the irrigation systems. Khidrotex  
1:telior 6 no.6:188-189 '61.

BACHILO, I.; LYUBIMOVA, A.; PETROV, L., red.; MOSKVINA, K., tekhn.  
red.

[The October District of Moscow] Oktiabr'skii raion Moskvy.  
Moskva, Sotsekg'z, 1962. 161 p. (MIRA 15:10)  
(Moscow--History) (Moscow--Description)

PETROV, L. S.

Modernization of universal metal-cutting machines. Mashinostroenie  
Leningrad, Jan '63.

... Dnepropetrovsk mashinostroitelnyy zavod, Kolarovgrad.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430009-8

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430009-8"



1944, 1945.

Use of ... serial production. Mashino-  
strenie ...

... , ...

PETROV, L., inzh.

Pneumatic hydraulic feeding appliances. Mashinostroene 1.  
no.5:15-18 My '62.

1. Duzhaven metalurgichen zavod, Kolarovgrad.

FETROV, L., inzh.

Methods of testing the running of the milliamper-second  
relay of roentgen apparatus. Ratsionalizatsiia no. 2:21-22  
'62.

PETROV, L., inzh.

For a longer utilization of the valve tubes in the roentgen  
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'62.

PETROV, L., inzhener.

Causes of deformation in porous ceramic bricks. Stroi.Mat.,  
izdel.i konstr. 1 no.11:29-30 N '55. (MLRA 9:5)  
(Bricks)

BULGARIA/Chemical Technology. Chemical Products H  
and Their Applications. Ceramics. Glass.  
Binding Materials. Concrete. - Binding  
Materials. Concrete and Other Silicate  
Construction Materials.

Abs Jour : Raf Zhur-Khimiya, No 6, 1959, 20291

Author : Petrov, L.  
Inst : Scientific Research Construction Institute.  
Title : Determination of the Specific Surface of  
Cement (and Other Powder-Formed Materials)  
by Means of Arcometric Analysis.

Orig Pub : Tr. Nauchnoissled. instit. in-t, 1955  
(1957), 1, 41-66

Abstract : No abstract.

Card : 1/1

DIMITROVICH, A.D., kandidat tekhnicheskikh nauk; PETROV, L., redaktor;  
TRUKHANOVA, A., tekhnicheskiiy redaktor

[Increasing the productivity and economy of brick kilns and drying  
apparatus] Povyshenie proizvoditel'nosti i ekonomichnosti kirpiche-  
obzhigatel'nykh pechei i iskusstvennykh sushilok. Minsk, Gos. izd-  
vo BSSR, 1955. 50 p. (MLRA 9:9)  
(Kilns)

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Principles and contributions to hard-ray technic and fine-focus roentgen tube in roentgenodiagnosis. Suvrem. med., Sofia 8 no.1:71-83 1967.

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hard-ray technic & fine-focus tube (Bul))



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tekhn.red.

[First Printed Cotton Fabric Factory] Pervaya shtsenabivnaia.  
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, no. 10,  
Oct. 1956.

AFANAS'YEV, N.N., inzhener; RUDERMAN, A.I., inzhener; ~~PETROV, L.~~, kandidat  
tekhnicheskikh nauk, redaktor; KALECHITS, G., tekhnicheskii redaktor;  
TRUKHANOVA, A., tekhnicheskii redaktor

[Manufacturing and using local building materials on collective  
farms; a manual for rural building] Proizvodstvo i ispol'sovanie  
mestnykh stroitel'nykh materialov v kolkhozakh; v pomoshch' sel'-  
skomu stroitel'iu. Minsk, Gos. izd-vo BSSR, nauchno-tekhn.  
lit-ry, 1956. 329 p. (MLRA 10:2)  
(Building materials)

PERROV, I.

Some problems in the organization of science of applied in industry.

TEKHNIKA PROIZVEDENIYA. Vol. 7, no. 1, 1988

Sofia, Bulgaria

SOURCE: East European Access to the USSR - Soviet Union of  
Congress, Vol. 7, No. 1, January 1988

PETROV, L.

Guarantee further improvement in working conditions. Mik.-elev.  
prom. 23 no.2:4-5 F '57. (MLRA 10:5)

1. Otdel truda i zarplaty Ministerstva khleboproduktov SSSR.  
(Grain trade)

PETROV, L., kand.tekhn.nauk

Iron without blast furnaces. Znan.sila 74 no.2:7-8 P '59.

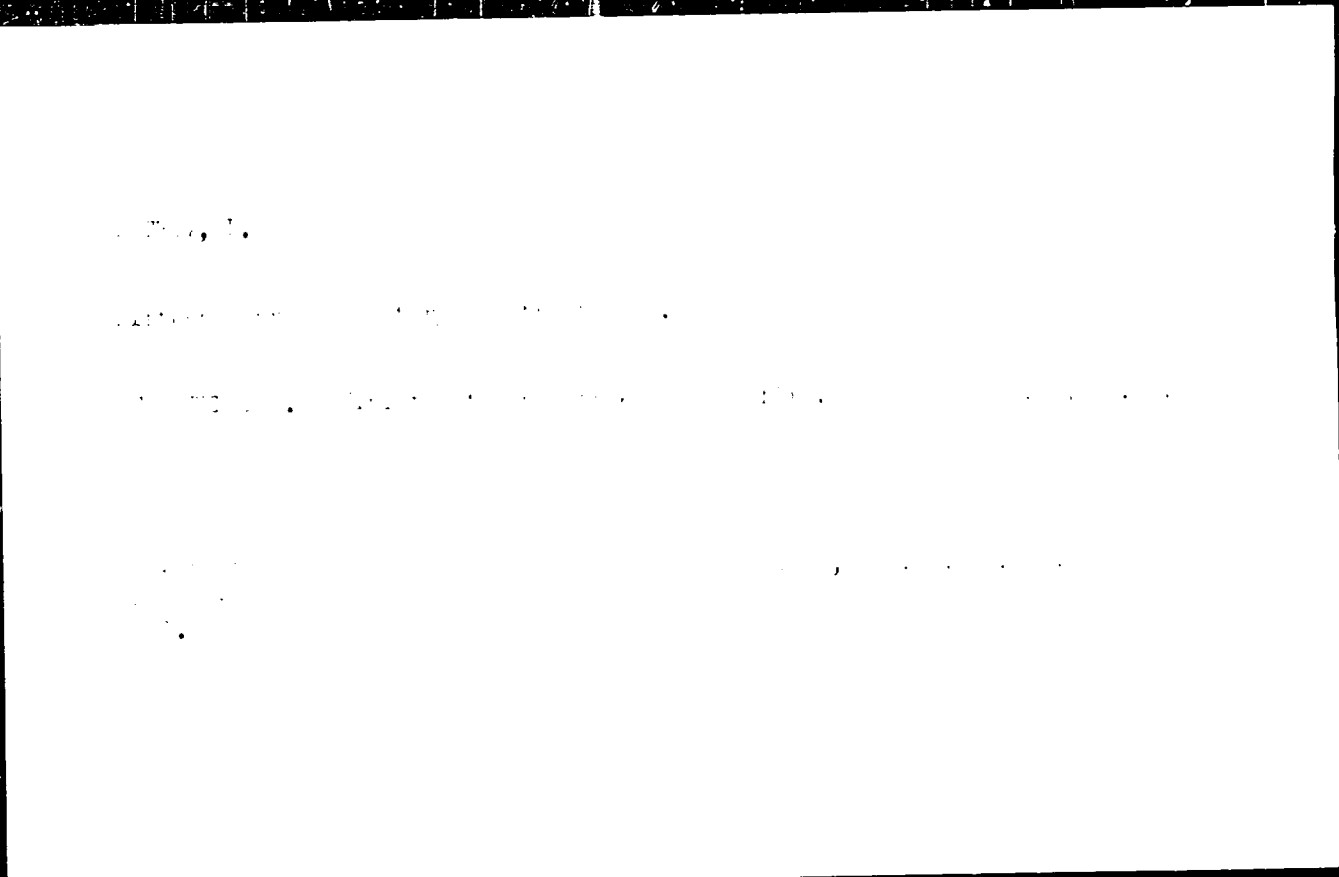
(Iron--Metallurgy)

(MIRA 12:3)

LAR'KINA, Yekaterina Ivanovna; PETROV, L., red.; TOLOKNOVA, M., mladshiy  
red.; ULANOVA, L., tekhn.red.

[Training of collective-farm personnel during the period of mass  
collectivization] Podgotovka kolhoznykh kadrov v period massovoi  
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(Collective farms)





PETROV, L.

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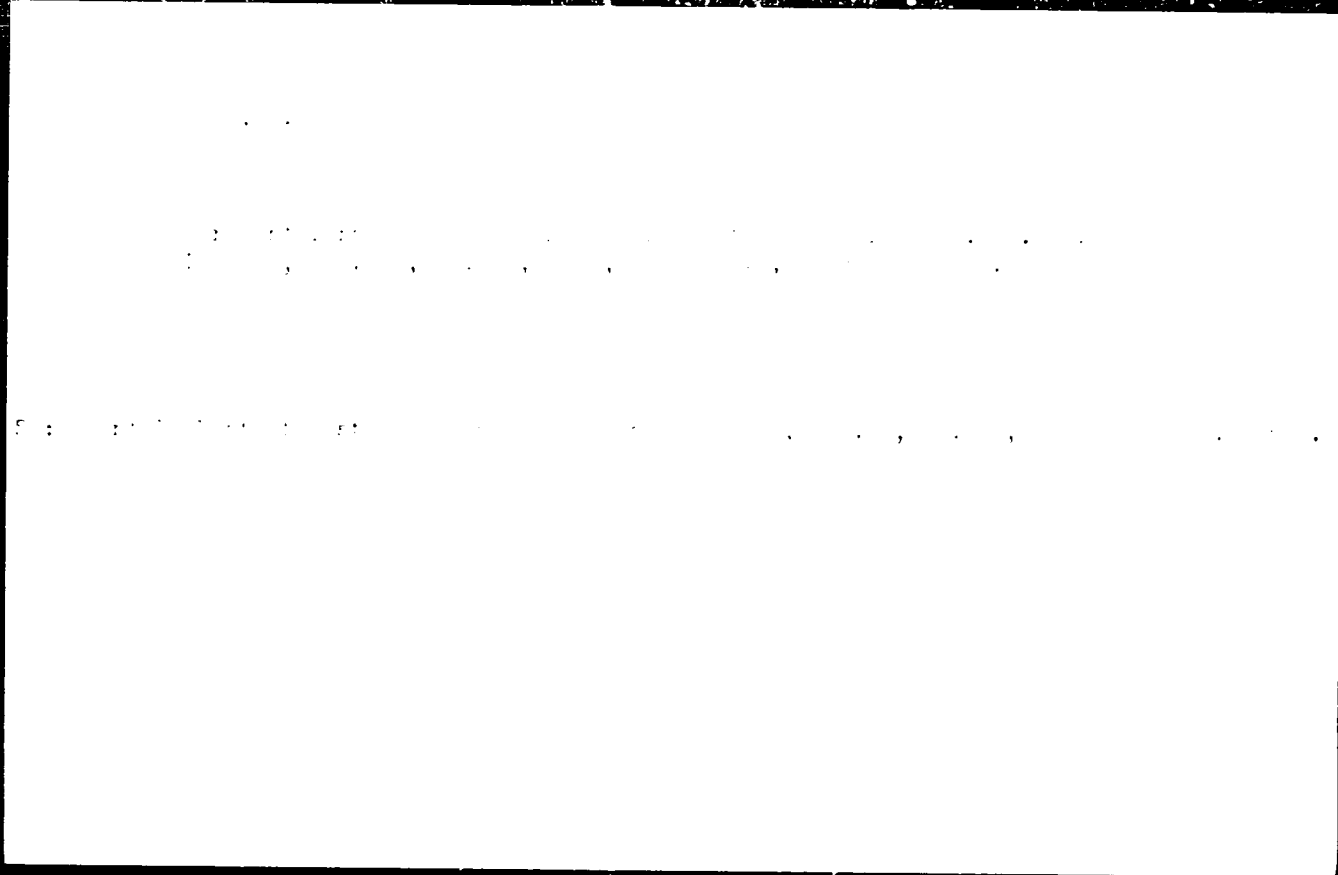
SO: Monthly List of East European Accessions, (SEAK), DC, VOL. 5, no. 6 June 1950, incl.

PETROV, L.

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KOCPEPATIVNO STROYENIE  
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Sofia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957



PETROV, L.

The record of Kuznetak Basin miners. Mast. ugl. 5 no.2:

3-4 Ag '56.

(MLRA 9:11)

1. Nachal'nik gornogo uchastka stroyupravleniya no 1 tresta  
Prokop'yevskshakhtostroy.

(Kuznetak Basin--Coal mines and mining)

PETROV, L.

NALIVKIN, D., akademik; PETROV, L., professor.

[Our petroleum] Nasha neft'. Moskva, Gos. izd-vo Detgiz, 1949. 98 p.  
(MLRA 7:3)

(Petroleum)

PETROV. L., jt. au.

Our petroleum 2. iz... is r...  
maps.

1. Petroleum - Russia. I. petro...

PETROV, L.A.

Category : USSR/Electronics - Semiconductors

PETROV L A

PHASE I BOOK EXPLOITATION

1185

Poluprovodnikovyye pribory i ikh primeneniye; sbornik statey, vyp. II (Semiconductor Devices and Their Uses; Collection of Articles, no. 2) Moscow, Izd-vo "Sovetskoye radio," 1957. 398 p. No. of copies printed not given.

Ed. (title page): Fedotov, Yakov Andreyevich; Ed. (inside book): Ivanushko, N.D.; Tech. Ed.: Sveshnikov, A.A.

**PURPOSE:** This book is addressed to physicists and electronics engineers interested in semiconductor devices and their applications in electronics.

**COVERAGE:** This is a collection of articles on semiconductor devices and their applications. There is an insert containing a circuit diagram of the measuring instrument described in the article on p. 331. No personalities are mentioned. There are 84 references, of which 33 are Soviet (including 3 translations), 1 Swiss, 6 German, 42 English, and 2 French.

Card 1/5



Semiconductor Devices and Their Uses (Cont.) 1185

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2-12-59

Card 5/5

ARTYUKHOVA, O.A.; VAKSENBURG, V.Ya.; PETROV, L.A.; SALTYKOVA, Ye.S.;  
SAMOKHVALOV, M.M.

New types of germanium p-n-p junction triodes. Poluprov. prib. 1  
ikh prim. no.2:46-77 '57. (MIRA 11:6)  
(Transistors)

PETROV, L.A.; SYTYI, G.F.

Changing parameters of the p-n-p alloy-type germanium triodes  
depending on the material and working point. Poluprov. prib. 1  
ikh prim. no.2:149-160 '57. (MIRA 11:6)  
(Transistors)

PETROV, L.A.; SYTYI, G.F.

Effect of germanium resistivity on the temperature dependence of  
junction-triode parameters. Poluprov. prib. 1 ikh prim. no.2:161-168  
'57. (MIRA 11:6)

(Transistors) (Electric resistance)

P.L. V, L.A. (Moskva); P.L. OV, Ye.K. (Moskva); P.L. V, L.N. (Moskva)

Sulfatization roasting of Vysokogorsk iron ores in a fluidized bed. Izv. AN SSSR. Tekhn. Kibernet. Ser. 1 topl. no.1:31-38 Jan. '61. (CIA 142)

(Sverdlovsk Province—Iron ores)  
(Sulfatization)



PETROV, L.A. (Moskva); FEDOROV, Ye.K. (Moskva)

Cobalt recovery from its ferrates during sulfatization roasting.

Izv. AN SSSR. Otd. tekhn. nauk. Met. i topl. no.1:67-69 Ja-F

'62.

(MIRA 15:2)

(Cobalt—Metallurgy)

PANCHEV, S.S.; PETROV, L.A.

Investigating the work of roof bolting on granular material models.  
Izv. vys. ucheb. zav.; tsvet. met. 5 no.2:27-37 '62. (MIRA 15:3)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra gornogo dela.  
(Mine roof bolting--Models) (Granular materials)

PETROV, L.A., gornyy inzh.

"New methods of designing rod bolting" by A.A.Borisov. Reviewed  
by L.A.Petrov. Gor. zhur. no.5:78-79 My '63. (MIRA 16:5)

1. Sibirskiy proyektnyy nauchno-issledovatel'skiy institut tsvetnoy  
metallurgii, Krasnoyarsk.  
(Mine roof bolting) (Borisov, A.A.)



PETROV, L.A. (Moskva)

Complete utilization of pyrite cinders. Izv.AN SSSR.Otd.tekh.  
nauk.Met.1 topl. no.3:22-27 My-Je '60. (MIRA 13:6)  
(Pyrites)

KARNAUKHOV, V.A.; TER-AKOP'YAN, G.M.; PETROV, L.A.; SUBBOTIN, V.G.

Experimental observation of proton emission in radioactive decay. Zhur. eksp. i teor. fiz. 45 no.4:1280-1282 0 '63.

(MIRA 16:11)

1. Ob"yedinennyy institut yadernykh issledovaniy.

ACCESSION NR: AP4043611

S/0056/64/047/002/0419/0432

AUTHORS: Flerov, G. N.; Karmazukhov, V.A.; Ter-Akop'yan, G. M.;  
Petrov, L. A.; Subbotin, V. G.

TITLE: On proton decay of radioactive nuclei

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 419-432

TOPIC TAGS: radioactive decay, proton decay, proton radiation,  
heavy particle, Coulomb repulsion force, alpha particle reaction

ABSTRACT: This paper is an elaboration of a previous report (ZhETF  
v. 45, 1280, 1963) and contains additional new data on observed pro-  
ton emitters. Experiments on proton decay of radioactive nuclei,  
using the internal beam of the heavy-ion cyclotron of OIYaI, are  
described and data are presented on two types of proton emitters  
obtained by bombarding nickel with beams of  $Ne^{20}$  and  $O^{16}$ . The first  
(one of the light isotopes of neon or magnesium) has a half-life

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ACCESSION NR: AP4043611

$(85 \pm 15) \times 10^{-3}$  sec and emits protons with energy  $5 \pm 0.2$  MeV. The second has a half-life  $23 \pm 4$  sec and emits protons with energy  $2.5 \pm 0.2$  MeV. It is concluded on the basis of several experiments that the second emitter is one of the light isotopes of Kr or Br, so that sub-barrier protons are emitted (height of the Coulomb barrier is  $\sim 8.5$  MeV). It is most probable that the protons are emitted from the daughter nucleus following the positron transition with which the measured half-life is connected. The emission of  $\sim 5$  MeV protons is similar to the emission of delayed neutrons. The emission of 2.5-MeV sub-barrier protons is analogous to the emission of long-range alpha particles by heavy nuclei. It is also shown that in the case of the  $\sim 2.5$ -MeV proton emitter another possible mechanism is proton decay of configuration isomers. Further work is planned for an experimental determination of the mechanism of the observed proton decay and for a more exact identification of the obtained protons. "The authors are grateful to E. Z. Pyndina and her co-workers for much preparing the silicon detectors, which were

Card 2/5



ACCESSION NR: AP4043611

essentially in the present work. The authors thank V. Titov and V. Chugreyev for construction work, Ye. A. Minin, N. Danilov, and B. Bichev for help in preparation for the experiments, and the cyclotron crew headed by A. N. Filipson for the irradiation." Orig. art. has: 11 figures and 2 tables.

ASSOCIATION: Ob"yedinenny\*y institut yaderny\*kh issledovaniy  
(Joint Institute of Nuclear Research)

SUBMITTED: 26Feb64

ENCL: 02

SUB CODE: NP

NR REF SOV: 013

OTHER: 013

Card 3/5

ACCESSION NR: AP4043611

ENCLOSURE: 01

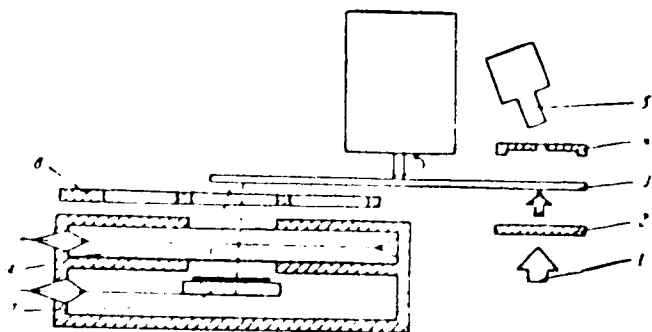


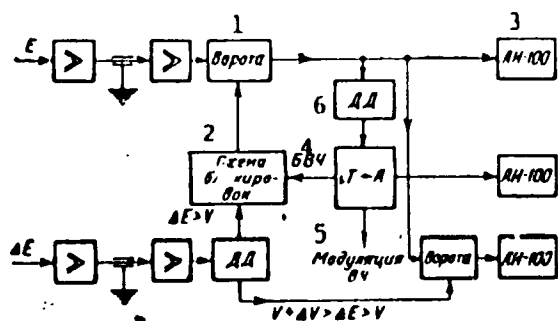
Diagram of experimental set-up

1 - ion beam, 2 - target, 3 - collector for reaction products, 4 - ion collector, 5 - detector, 6 - proportional counter, 7 - surface barrier detector, 8 - moving frame

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ACCESSION NR: AP4043611

ENCLOSURE: 02



Block diagram of electronic apparatus

- 1 - gates, 2 - blocking circuits 3 - pulse analyzer 4 - high frequency block,
- 5 - high frequency modulation, 6 - discriminator (differential)

Card 5/5

KARAKOROV, V. A.; TER-AKOP'YAN, G. M.; PETROV, L. A.; SUBBOTIN, V. G.

"Experiments on Observation of Radioactive Decay with the Emission of Protons."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22  
Feb 64.

Joint Inst for Nuclear Res, Dubna.