

~~AFANAS'YEV, N.~~; SIL'NOV, V., glavnyy inzh.; GORDON, A.; GORELIK, S.,  
glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[100-ton tower silo (brick walls)] Silosnaya bashnia na 100 tonn  
(steny kirpichnye). Proekt no.012. Minsk, Gos.izd-vo BSSR, Red.  
nauchno-tekh.lit-ry, 1955. 3 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.
  2. Direktor "Belsel'proyekta" (for Afanas'yev).
  3. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon).
  4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov).
  5. "Belsel'proyekt" (for Sil'nov, Gorelik).
- (Silos)

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; GORDON, A.; GORELIK, S.,  
glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[Low 200-ton tower silo (brick walls)] Silosnaia polubashnia na  
200 tonn (steny kirpichnye). Proekt no.009. Minsk, Gos.izd-vo  
BSSR, Red.nauchno-tekh.lit-ry, 1955. 3 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.
  2. Direktor "Belsel'proyekta" (for Afanas'yev).
  3. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon).
  4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov).
  5. "Belsel'proyekt" (for Sil'nov, Gorelik).
- (Silos)

AFANAS'YEV, N., SIL'NOV, V., glavnyy inzh.; SHCHELKOV, O.; GORDON, A.;  
GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A.,  
tekhred.

[Pit silos with a capacity of 12 and 19 tons made of precast  
reinforced concrete rings for siloing corn cobs. Plan No.007]  
Silosnye iamy emkost'iu 12 i 19 tonn iz sbornykh zhelezobetonnykh  
kolets dlia silosovaniia pochatkov kukuruzy. Proekt no.007.  
Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 4 p.

(MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.
  2. Direktor "Belsel'proyekta" (for Afanas'yev).
  3. Nachal'nik  
proyektного отдела "Belsel'proyekta" (for Shchelkov).
  4. Rukovoditel'  
masterskoy No.1 "Belsel'proyekta" (for Gordon).
  5. Ispolnyayushchiy  
obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for  
Sokolov).
  6. "Belsel'proyekt" (for Sil'nov, Gorelik).
- (Silos) (Precast concrete construction)

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; GORDON, A.; GORELIK, S.,  
glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhnred.

[100-ton tower silo (rubblestone walls)] Silosnaya bashnia na  
100 tonn (steny butovye). Proekt no.013. Minsk, Gos.izd-vo  
BSSR, Red.nauchno-tekhn.lit-ry, 1955. 4 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.
  2. Direktor "Belsel'proyekta" (for Afanas'yev).
  3. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon).
  4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov).
  5. "Belsel'proyekt" (for Sil'nov, Gorelik).
- (Silos)

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; BACHILOV, I.; CHERTKOV, A.,  
glavnyy konstruktor; SOKOLOV, Ya.; KUCHINSKIY, B.; TRUKHANOVA, A.,  
tekhred.

[Trench silos with capacities of 500, 300, 200, and 100 tons (brick  
and rubble concrete walls)] Silosokhranilishcha transheynogo tipa  
emkost'iu 500, 300, 200 i 100 tonn (steny kirpichnye i butobetonnye).  
Proekt no.001. Minsk, Gos.izd-vo BSSR, Red. nauchno-tekhn.lit-ry,  
1955. 5 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.  
2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Rukovoditel'  
masterskoy No.2 "Belsel'proyekta" (for Bachilov). 4. Ispolnyayushchiy  
obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for  
Sokolov). 5. "Belsel'proyekt" (for Sil'nov, Chertkov, Kuchinskiy).  
(Silos)

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; BACHILOV, I.; CHERTKOV, A.,  
glavnyy konstruktor; SOKOLOV, Ya.; KARAVAY, P., TRUKHANOVA, A.,  
tekhred.

[Trench silo with a capacity of 1000, 700, 500, and 300 tons  
(brick or rubble concrete walls)] Silosokhranilishcha transhejnogo  
tipa emkost'iu 1000, 700, 500, 300 tonn (steny kirpichnye ili  
butobetonnye). Proekt no.002. Minsk, Gos.izd-vo BSSR, Red. nauchno-  
tekh.n.lit-ry, 1955. 5 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.
  2. Direktor "Belsel'proyekta" (for Afanas'yev).
  3. Rukovoditel' masterskoy No.2 "Belsel'proyekta" (for Bachilov).
  4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov).
  5. "Belsel'proyekt" (for Sil'nov, Chertkov, Karavay).
- (Silos)

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; SHCHELKOV, O.; GORDON, A.;  
GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A.,  
tekhred.

[Combined silo and water tank; capacity of silo - 100 and 150 tons,  
of water tank - 15 and 20 cubic meters. Plan No.005] Silosnaia  
bashnia s vodonapornym bakom emkost'iu bashni 100 i 150 tonn i baka  
15 i 20 kub.metrov. Proekt no.005. Minsk, Gos.izd-vo BSSR, Red.  
nauchno-tekh.lit-ry, 1955. 16 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva.
  2. Direktor "Belsel'proyekta" (for Afanas'yev).
  3. Nachal'nik proyektного  
otdela "Belsel'proyekta" (for Shchelkov).
  4. Rukovoditel' masterskoy No.1  
"Belsel'proyekta" (for Gordon).
  5. Ispolnyayushchiy obyazannosti  
nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov).
  6. "Bel-  
sel'proyekta" (for Sil'nov, Gorelik).
- (Silos)                      (Tanks)

AFANAS'YEV, N.

~~AFANAS'YEV, N.~~  
AFANAS'YEV, N.

Silos with water pressure tanks. Sel'.stroil.10 no.7:8-10 J1'55.  
(MLRA 8:10)

1. Direktor instituta "Belsel'proyekt"  
(Water towers) (Silos)



AFANAS'YEV, N.

Model dairy barn. Sel', stroi. 12 no.7:24-26 J1 '57. (MLRA 10:8)

1. Direktor proyektnogo instituta "Belsel'proyekt."  
(Dairy barns)

~~AFANAS'YEV, N.; KOROBKIN, I.~~

Standard plans for farm buildings to be built in the White Russian  
S.S.R. Zhil.stroi. no.10:5-7 '58. (MIRA 12:6)  
(White Russia--Farm buildings)

AFANAS'YEV, N.

At the place of the last battle. Voen. znan. 41 no.1:9 Ja '65.  
(MIRA 18:2)

AFONAS'YEV, N.  
AFONAS'YEV, N.

PA 10177

USSR/Radio Transmitters  
Circuits, Oscillator

Mar 1948

"Master Oscillators for Amateur Transmitters," N.  
Afonas'yev, 4 pp

"Radio" No 3

Concludes article begun in "Radio" No 1, 1948.  
Discusses the effect of the voltage supply, the op-  
eration of the final stage, the practical circuit of  
the master oscillator for the stable operation.  
Includes circuit diagrams.

78199

ID

AFANAS<sup>Y</sup>EV, N.

O malykh televizionnykh tsnetrakh. [On smaller television centers]. (Radio, Feb. 1949, no. 2, p. 49).

DLC: TK540.R76

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

AFANAS'YEV, N.

"Advice for Builders of Magnetophones," Radio, No. 3, 1949

AFANAS'YEV, N.

"Advice to the Magnetophone Constructor," Radio, No. 4, 1949

1. ZAGORODNIYUK, V.; AFANAS'EV, N.
2. USSR (600)
4. Drying Apparatus
7. "US-1" all-purpose drier, N. Afanas'ev, V. Zagorodniyuk, Sel'.stroj. 8 no. 2, 1953.

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



AFANAS'YEV, N.

The Taman' Guards Division. Voen. znan. 40 no.12:12 D '62  
(MIRA 18:1)

AFANAS'YEV, N.A., inzhener-mayor

How to measure the height of generator brushes? Vest.Vozd.Fl.  
no.8:82-83 Ag '60. (MIRA 13:9)  
(Electric generators)

NAZARENKO, U.P.; AKULOV, Ye.F., red.; KIREYEV, M.I., red.; NOVIKOV, V.K.,  
red.; SAVEL'YEV, V.I., red.; CHUMAKOV, N.M., red.; AFANAS'YEV, N.A.,  
red.; BORUNOV, N.I., tekhn. red.

[Economy in the use of electricity in compressor plants] *Ekonomiya  
elektroenergii v kompressornykh ustanovkakh.* Moskva, Gos. energ.  
izd-vo, 1961. 79 p. (MIRA 14:8)

(Electric power)

BORISOV, V.M., doktor tekhnicheskikh nauk; AFANAS'YEV, N.A., kand.tekhn.nauk

Problems of raw materials for the basic chemical industry. Zhur.  
VKHO 7 no.1:10-17 '62. (MIRA 15:3)  
(Chemical industries) (Raw materials)

NAZARENKO, Ustin Petrovich; AFANAS'YEV, N.A., red.; BUL'DYAYEV,  
N.A., tekhn. red.

[Operation of piston-type air compressors] Eksploatatsia  
vozdushnykh porshnevykh kompressorov. Moskva, Gosenergo-  
izdat, 1963. 63 p. (Biblioteka elektromontera, no.99)  
(MIRA 16:10)

(Air compressors)

VERESKUNOV, Vadim Konstantinovich; AFANAS'YEV, Nikolay Afanas'iyevich;  
SHALYT, N.A., red.; DORODNOVA, L.A., tekhn. red.

[Fire prevention in agricultural production] Pozharnaya bez-  
opasnost' v sel'skokhoziaistvennom proizvodstve. Moskva,  
Proftekhizdat, 1963. 55 p. (MIRA 16:5)

(Fire prevention)

(Agricultural machinery--Maintenance and repair)

AFANAS'YEV, Nikolay Arsent'yevich; GERASIMOV, N.S., nauchn. red.

[Manual for the chief of a rural voluntary fire brigade  
on fire prevention work] Pamiatka nachal'niku sel'skoi  
dobrovol'noi pozharnoi druzhiny po profilakticheskoi ra-  
bote. Moskva, Stroizdat, 1965. 41 p. (MIRA 18:10)





1ST AND 2ND CROSS 1ST AND 2ND CROSS

PROCESSES AND PROPERTIES INDEX

18

**AFANAS' YEV N.A.**

*Handwritten mark: a stylized 'A' or 'C' with a checkmark.*

Phosphorites of U. S. S. R. B. M. Gimmel'farb and N. A. Afanas'ev. Nauch. Inst. Udobreniyam i Isakhtozhizidam Ya. V. Samoilova 1019-30, 24-33; Khim. Referat. Zhur. 1940, No. 6, 88-7. — The properties of phosphorites of the Kirov, Moscow, Aktyulin and other regions of U. S. S. R. are described. The Kara-Tau phosphorites (Southern Kazakhstan) are of the greatest importance. Their estimated reserves are 315 million tons, with a productivity of 25 tons/sq. m. The av.  $P_2O_5$  content is 28% and  $R_2O_3$  2.0-2.5%. The com. production of phosphorites rose to 877,000 tons in 1937, from 14 active mines, from 29,000 tons in 1922-23. W. R. Hean

ASB-56A METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON VARIABLES INDEX

1ST AND 2ND CROSS

|                   |                        |
|-------------------|------------------------|
| COMMON ELEMENTS   | COMMON VARIABLES INDEX |
| 1ST AND 2ND CROSS | 1ST AND 2ND CROSS      |

BORISOV, V.M., kandidat tekhnicheskikh nauk; ~~AFANAS'YEV, N.A., kandidat tekhnicheskikh nauk.~~

Development of the potassium industry. Khim.nauka i prom. 1  
no.2:146-149 '56. (MLRA 9:9)

(Potash industry)

AFANAS'YEV, N. A., Eng.      Cand. Tech. Sci.

Dissertation: "Resistance of Rocks to Scooping and Basic Constructional Members of a Multibucket Excavator in a Stope." Moscow Mining Inst imeni I. V. Stalin, 22 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

S/064/60/000/01/11/024  
B022/B008

AUTHORS: Afanas'yev, N. A., Candidate of Technical Sciences,  
Abramov, V. F., Candidate of Technical Sciences

TITLE: Methods of Improving the System of Underground Mining in  
Apatite Mines

PERIODICAL: Khimicheskaya promyshlennost', 1960, No. 1, pp. 51 - 57

TEXT: An increase of the apatite production to the 2.7 fold is envisaged within the framework of the coming Seven-year Plan. The kombinat "Apatit" ("Apatit" Kombinat) is the supplier of the Apatit concentrate. The apatite deposits have a thickness of 150-200 m, and come to the surface on the slopes of the Kukisvumchorr, Yukspor, and Rasvumchorr mountains. The Protod'yakonov hardness number of the individual layers is given. The system of breaking layers by means of blasting is used for the mining of the deposits. This system shows, however, a number of drawbacks. In the course of improving the mining process, the volume and cost of the drilling of blast holes at a varied arrangement of the blasting charges (Table 1), and the cost in rubles per ton of the mining by blasting in the rudnik

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Methods of Improving the System of Underground Mining in Apatite Mines S/064/60/000/01/11/024  
B022/B008

and 5 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut gornokhimicheskogo syr'ya (Scientific Research Institute of Chemical Raw Materials Produced in Mining) ✓

Card 3/5

L 38709-88 EWT(1) UD

ACC NR: AT6016916

(N)

SOURCE CODE: UR/000/65/000/000/0432/0443

AUTHOR: Zvolinskiy, N. V.; Flitman, L. M.; Kostrov, B. V.; Afnas'yev, V. A.

34  
33  
B11

ORG: Institute of Physics of the Earth, AN SSSR, Moscow (Institut fiziki Zemli AN SSSR); Institute of Problems of Mechanics, Academy of Sciences, SSSR (Institut problem mekhaniki Akademii nauk SSSR)

TITLE: Some problems in the diffraction of elastic waves

SOURCE: International Symposium on Applications of the Theory of Functions of Continuum Mechanics. Tiflis, 1963. Prilozheniya teorii funktsiy v mekhanike sploshnoy sredy. t. 1: Mekhanika tverdogo tela (Applications of the theory of functions in continuum mechanics. v. 1: Mechanics of solids); trudy simpoziuma. Moscow, Izd-vo Nauka, 1965, 432-443

TOPIC TAGS: elasticity theory, partial differential equation, integral equation, boundary value problem, approximate solution

ABSTRACT: Three problems are studied: (1) That of waves formed in an elastic medium as a result of momentary disturbance of the continuum along an infinitely long plane strip of finite width. The dynamic equations of elasticity theory are solved under boundary value conditions corresponding to time with initial conditions zero. The problem is shown to be reducible to the Wiener-Hopf problem; (2) The problem of motion under the action of a plane wave of a solid infinite strip in an elastic space. This

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L 41996-65 ~~ENG(j)/ENG(r)/EAT(l)/FS(v)-2/ENG(v)/ENG(e)-2/ENG(e)~~ ~~Pa-5~~ DD  
ACCESSION NR: AT5010624 SR 3147/64/003/000/0252/0254

CHK: Afanas'yev, N. A., Gushin, I. S.

TITLE: A case of delayed pulmonary barotrauma

SOURCE: AN SSSR. Institut evolyutsionnoy fiziologii. Funktsii organizma v usloviyakh izmenennoy gazovoy sredy, v. 3, 1960, 151-154.

TOPIC TAGS: barotrauma, caisson disease, embolism, lung, diving

ABSTRACT: In February 1960 a diver practicing at a depth of 18.5 m accidentally closed a valve in his helmet and managed with the help of his instructors to come to the surface. The diver was in good health, well and showed no signs of any disorders. A medical examination was likewise negative. The next day a chest x-ray revealed a small area of consolidation after breathing deeply and then the consolidation disappeared. The diver gradually gave up his training, vertigo, weakness, dyspnea, and slight physical exertion, but he did not see a physician until three days after the dive. No objective signs of barotrauma were discovered. A chest x-ray taken the next day revealed a small shadow due to a layer of gas in the lower lung region. This and the subjective complaints led to a diagnosis of delayed pulmonary barotrauma. After

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L 41996-65

ACCESSION NR: AT5010624

minutes in a recompression chamber under 4 atmospheres of air, chest and muscular pains and vertigo were considerably reduced. As the pressure was lowered to 2 atmospheres the patient complained of chest pain. On leaving the chamber, the patient was given 100% oxygen for 15 minutes. The patient was then transferred to the hospital.

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

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Card 2/2



AFANAS'YEV, Nikolay Arsent'yevich; ZOLOTUKHIN, Vasily Tikhonovich;

[Fire prevention in agricultural production] Pozharnaia  
profilaktika v sel'skokhoziaistvennom proizvodstve. Mo-  
skva, Stroiizdat, 1965. 135 p. (MIRA 18:5)

AFANAS YEV, 10

TABLE I BOOK EXPLANATION SV/NO12

Abstrakty nauki i tekhnologii SSR. Otdelnoye fiziko-matematicheskoye nauki. Seriya po atomnoy i spol'zovaniyu atomnoy energii

Trudy (Transactions of the Session on Practical Uses of Atomic Energy), Ulyev, Izd-vo AN Otkrytatskoy SSR, 1968. 188 p. 2,500 copies printed.

Resp. Ed.: M. V. Pashchuk, Doctor of Physics and Mathematics; Editorial Board: A. K. Val'ter, Academician, Academy of Sciences Otkrytatskoy SSR, O.F. Semets, Candidate of Physics and Mathematics, M. V. Pashchuk, Doctor of Physics and Mathematics; Ed. of Publishing House: T. K. Resnatski; Tech. Ed.: E. P. Pashchuk.

PURPOSE: This collection of articles is intended for physicists and scientific personnel working in nuclear research.

CONTENTS: The articles in this collection discuss linear proton accelerators, electron accelerators, electrostatic accelerators, magnetron lenses, the interaction of charged particles and neutrons with nuclei, the applications of tagged atoms in physics research, and experimental methods. Some of the articles discuss the design of new types of existing nuclear installations and technical operations. In particular, existing nuclear installations include: study of exotic and non-Soviet sources at the end of most of the articles.

|   |     |
|---|-----|
| Resnatski, O.F. Selective Spectrometer for Charged Particles  | 185 |
| Gorkova, Y.I., V.D. Korkitskiy, and N.D. Ortyugenden. Maticheskoye Klyuz Analizer   | 188 |
| Ortyugenden, N.D., L.D. Korkitskiy, and V.D. Koryev. Maticheskoye Amplitudnyy Analizer Vlyuz Magnetye Druzy Memory Dille                        | 191 |
| Ortyugenden, N.D., and V. Ya. Gornbar. Maticheskoye Amplitudnyy Analizer Vlyuz Difraktsionnyy Spektrometr                                       | 199 |
| Galkin, A.A., D.A. Kichigin, and I. Ya. Mestakov. Vlyuz Puzlisa and Election Resonance to Measuring Fluctuations in the Microwave Band          | 180 |
| Resnatski, Y.S., V.I. Ortyugeren, D.S. Dolopozov, and I.Y. Bogoyavlanskiy. Charge in the Isotopic Composition of Mercury in a DC Electric Field | 185 |

A/FANAS'YEV, N.G.

89-3-12/30

AUTHORS: Afanas'yev, N. G. ; Gonchar, V. Yu.

TITLE: The Measurement of  $\gamma$ -Ray and Neutron Spectra by Means of CsJ(Tl), NaJ(Tl) and Stilbene Crystals (Izmereniye spektrov  $\gamma$ -luchey i neytronov s pomoshch'yu kristallov CsJ(Tl), NaJ(Tl) i stil'bena)

PERIODICAL: Atomnaya Energiya, 1950, Vol. 4, Nr 3, pp. 289 - 292 (USSR)

ABSTRACT: A spectrometer is described which in principle consists of the following parts: crystal + multiplier, linear pulse amplifier, stabilized power supply unit for feeding the multiplier, and a 55-channel analyzer. The analyzer is connected with an "ultrasonic" memory. The crystals (3 x 2 cm) were partly produced in the Crystallographic Institute of the AN USSR [CsJ(Tl)] , and partly in the Khar'kov Chemical Plant. The resolving power amounted to:

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Cs<sup>137</sup>

| CsJ(Tl) | NaJ(Tl) |
|---------|---------|
| 11,5 %  | 9 %     |

GORDIYENKO, A.G.; [HORDIENKO, A.H.]; VIL'YAMS, A.P.; AFANAS'YEV, N.G.  
[Afanas'iev, M.H.]; SIDORENKO, L.I. [Sydorenko, L.I.]

Remote proton magnetometer with a long line for measuring wide  
ranges of magnetic fields. Ukr. fiz. zhur. 5 no.6:857-858 N-D '60.  
(MIRA 14:3)

1. Fiziko-tehnicheskii institut AN USSR.  
(Nuclear magnetic resonance)  
(Magnetometer)

S/048/60/024/009/013/015  
B013/B063

AUTHOR: Afanas'yev, N. G.

TITLE: A Magnetic Spectrometer <sup>21</sup> With Double Focusing

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,  
Vol. 24, No. 9, pp. 1157-1164

TEXT: The author suggests a new method for an ideal horizontal focusing. This method may also improve the vertical focusing. A curved magnet is suited for improving the resolving power. In the case of a practically arbitrary entrance it is possible to design the exit in such a way that the magnet has an ideal focusing (Fig. 1). The arbitrary choice of the entrance may be used to improve the vertical focusing for the entire angle of capture. The entrance of a magnet which has an ideal horizontal and an improved vertical focusing must consist of two circular arcs. These arcs are touching at the point where the main particle ( $\alpha = 0$ ) enters. The exit is a complex curve which is determined from equations (1) and (2). If no ideal horizontal focusing is required, the exit may be circular (properly speaking, one circle for  $\alpha > 0$  and another for

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A Magnetic Spectrometer With Double Focusing

S/048/60/024/009/013/015  
B015/B063

$\alpha < 0$ ). Spectrometers with a large angle of capture, which are based on this principle, usually have smaller horizontal aberrations than spectrometers with a focusing of second or a higher order (Fig. 2). Magnetic screens may be used to reduce the effect of the stray field and to determine it when the particle beam enters and leaves the spectrometer. Two limiting cases are studied, that is to say, an infinitely thick and an infinitely thin screen. The problem may be solved in both cases by the method of conformal transformation. The trajectory of a particle in an ideal and a real magnet was determined (Fig. 3). The values calculated for the effective limit  $\xi$  for the two types of screen are given in a table. The effect of stray fields on the horizontal and vertical focusing was studied (Figs. 4 and 5). Contrary to horizontal focusing, vertical focusing is considerably affected by stray fields. The latter may be exactly calculated from formulas (16) - (21) by taking account of the stray fields. Several magnetic spectrometers were constructed by the new method. Their essential circuit diagram is shown in Fig. 6. Control measurements showed good agreement between the calculated values and the measured parameters of the instrument. The description of the spectrometer will be published in a later paper. There are 6 figures, 1 table, and

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A Magnetic Spectrometer With Double  
Focusing

S/048/60/024/009/013/015  
B003/B063

6 references: 1 Soviet.

ASSOCIATION: Khar'kovskiy fiziko-tekhnicheskii institut Akademii nauk  
USSR (Khar'kov Institute of Physics and Technology of the  
Academy of Sciences UkrSSR)



Card 3/3

AFANAS'YEV, N.G. [Afanas'tev, M.H.]; GORDIYENKO, A.G. [Hordiienko, A.H.];  
KOLISHCHENKO, L.K.; VIL'YAMS, A.P.; SIDORCHENKO, L.I.

Measurement and stabilization of the magnetic field of a powerful  
electromagnet by the nuclear magnetic resonance method. Ukr.fiz.  
zhur. 5 no.3:319-326 My-Je '60. (MIRA 13:8)

1. Fiziko-tehnicheskii institut AN USSR.  
(Electromagnets) (Magnetic fields) (Nuclear magnetic resonance)



AFANAS'YEV, N.G. [Afanas'iev, M.H.]; VIL'YAMS, A.P.; GORDIYENKO, A.G.  
[Hordiienko, A. H. ]; SIDORENKO, L.I. [Sydorenko, L.I.]

Remote action magnetometer. Ukr. fiz. zhur. 6 no.2:191-196  
Mr-Apr '61. (MIRA 14:6)

1. Fiziko-tekhnicheskii institut AN USSR, g. Khar'kov.  
(Magnetometer)

37781

5/120/62/000/002/002/047

E039/E420

21.6000

AUTHORS: Afanas'yev, N.G., Dem'yanov, A.V.

TITLE: An electron beam current integrator

PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 20-22

TEXT: An apparatus is described which is intended for the measurement of beam currents in a linear electron accelerator for maximum energies of 100, 400 and 2000 Mev in the range of  $10^{-8}$  to  $10^{-10}$  A. The Faraday cylinder is the most accurate means of measuring beam currents but for use with high energy beams its dimensions and mass become large as it is necessary to absorb all the charged components resulting from the passage of the beam through the absorber. In addition it must be near to the target in order to collect the divergent beam and this is likely to introduce distortion. The method described is based on the monitoring of secondary electrons produced when the primary electron beam is passed through aluminium foils. The apparatus consists of two assemblies of aluminium foils with ten pieces in each, which are interleaved in the same way as an air condenser. The one foil assembly acts as an emitter and the other as a

Card 1/2

An electron beam current integrator

S/120/62/000/002/002/047  
E039/E420

collector of the secondary electrons (foil thickness  $10\mu$ , clearance between foils 2 mm). In use the foil assemblies are placed about 150 mm behind the target and arranged so that the beam passes through the centre of all the foils. The assembly was calibrated against a Faraday cylinder for a 35 Mev beam of electrons and the secondary emission coefficient  $K$  shown to be equal to  $(0.5 \pm 0.01)$  secondary  $e^-$ /primary  $e^-$ . There are 2 figures and 2 tables. †

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR  
(Physicotechnical Institute AS UkrSSR)

SUBMITTED: July 26, 1961

Card 2/2

AFANAS'YEV, N.G.; VYSOTSKAYA, A.V.; GOL'DSHTEYN, V.A.

Design of magnetic spectrometer with circular outline. Prib.  
i tekhn. eksp. 8 no.5:29-33 S-0 '63.

Aberration of a magnetic spectrometer with circular outline.  
34-39 (MIRA 16:12)

1. Fiziko-tehnicheskiiy institut AN UkrSSR.

ACCESSION NR: AP4033100

S/0120/64/000/002/0024/0028

AUTHOR: Afanas'yev, N. G.; Vy\*sotskaya, A. V.; Gol'dshteyn, V. A.;  
Startsev, V. I.

TITLE: Using a double-focusing magnetic spectrometer for recording a wide  
part of an electron spectrum

SOURCE: Pribo\* i tekhnika eksperimenta, no. 2, 1964, 24-28

TOPIC TAGS: spectrometer, magnetic spectrometer, double focusing magnetio  
spectrometer, electron spectrum, nuclear science

ABSTRACT: A uniform-field spectrometer with a thick nuclear photoplate  
mounted along the focal line as a detector was used for recording a wide  
spectrum. Calculation and experimental verification of the focal line are given;  
horizontal and vertical aberrations are calculated; the vertical form of the  
spectral line for 2- and 4-mm-diameter sources was estimated and measured.

Card 1/2

ACCESSION NR: AP4033100

The resolution, aperture ratio, and line form of the spectrometer were accurately determined by the photo method. The resolution, 0.2 and 0.4%, and the aperture ratio,  $0.95 \times 10^{-2}$  and  $0.38 \times 10^{-2}$  ster, for the above sources, respectively, were found to be almost constant for the entire energy range and in good agreement with their estimated values. Orig. art. has: 7 figures, 16 formulas, and 3 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physico-Technical Institute, AN UkrSSR)

SUBMITTED: 18May63

DATE ACQ: 11May64

ENCL: 00

SUB CODE: NS

NO REF SOV: 002

OTHER: 000

Card 2/2



35614-65

ASSOCIATION NO. 4110000

ASSOCIATION NO. 4110000

SUBMITTED: 1/1/68

NO REF SOV: 001

OTHER: 002

ATD PRESS: 3220

Card 2/2



L 13748-65 ARDC(t)

ACCESSION NR: AP4047458

S/0120 /64/000/005/0048/0054

AUTHOR: Afanas'yev, N. G.; Vy\*sotskaya, A. V.; Gol'dshteyn, V. A.;  
Dem'yanov, A. I.; Startsov, V. I. B

TITLE: Magnetic spectrometer for electrons with energy up to 100 Mev

SOURCE: Pribory\* i tekhnika eksperimenta, no. 5, 1964, 48-54

TOPIC TAGS: spectrometer. magnetic spectrometer. magnetic spectrometer  
focusing

ABSTRACT: Design principles, construction, and experimental results obtained with a uniform-field double-focusing magnetic spectrometer are reported. By using circular borders, perfect horizontal focusing and satisfactory vertical focusing have been ensured; the measurement of nuclear-reaction products within 22-158° is possible; the magnet gap is 29 mm. the spectrometer input and output are equipped with magnetic shields. The design features of the spectrometer are

Card 1/3

L 13748-65

ACCESSION NR: AP4047458

shown in Enclosure 1. The main windings are supplied by an 11-kw dynamo-electric amplifier. Resolution, for 2- and 4-mm-dia sources, is 0.2 and 0.4%, respectively. the capture angle in the median plane is  $18^\circ$ . Other design data is given. Calculation of horizontal aberrations is made up to the 4th order and vertical aberrations up to the 3rd order. Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: Fiziko-tehnicheskiiy institut AN UkrSSR (Physico-Technical Institute, AN UkrSSR)

SUBMITTED: 12Nov63

ENCL: 01

SUB CODE: OP, NP

NO REF SOV: 004

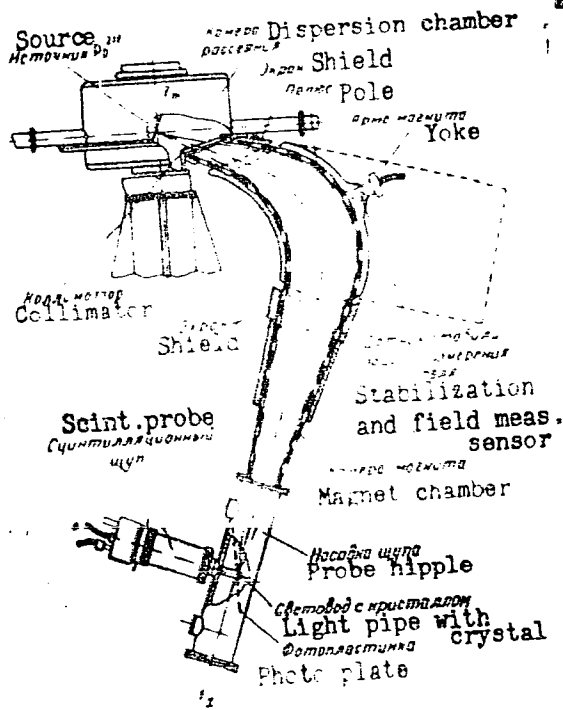
OTHER: 005

Card 2/3

L 13748-65  
ACCESSION NR: AF4047458

ENCLOSURE: 1

Magnetic spectrometer and  
a counter for checking  
the focusing



Card 3/3

L 17090-65/ EWT(m) Feb DIAAP

ACCESSION NR: AP5007030

S-0120 65-000 001/0082/0087

AUTHOR: Afanas'yev, N. G.; Shevchenko, N. G.; Afanas'yev, G. N. <sup>112</sup>  
<sub>B</sub>

TITLE: Calorimeter for measuring bremsstrahlung stream

SOURCE: Pribery i tekhnika eksperimenta, no. 1, 1965, 82-85

TOPIC TAGS: bremsstrahlung, bremsstrahlung measurement

ABSTRACT: To eliminate the shortcomings of d-instruments for measuring bremsstrahlung (BS) proposed by P. D. Edwards (Rev. Sci. Instrum., 1953 v. 24, 490), this article suggests an a-c device based on the compensation measurement principle. A temperature rise caused by the passage of gamma-quanta through an absorber is recorded by a thermopile. By artificially heating a compensating cylinder, a balance a-c circuit maintains equality of temperatures of the absorbing and compensating cylinders with an accuracy of  $5 \times 10^{-4}$  C. With a BS stream of  $10^8$  effective quanta  $\text{sec}^{-1}$  the relative measurement error is 3% or less. With larger BS streams, the accuracy goes higher. Orig. art. has 4 figures and 3 formulae.

Card 1/2

L 47090-65

ACCESSION NR: AP5007030

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR (Physico-Technical  
Institute, AN UkrSSR)

SUBMITTED 29 Jan 64

EN 1

TR CODE NP

NO REF SOV 001

(OTHER)

*P*  
2/2

AFANAS'YEV, N.G.; SHEVCHENKO, N.G.; AFANAS'YEV, G.N.

Calorimeter for measuring bremsstrahlung beams. Prib. i tekh. eksp.  
10 no.1:82-85 Ja-F '65. (MIRA 18:7)

1. Fiziko-tehnicheskij institut AN UkrSSR.

AFANAS'YEV, N.G.; DENYAK, V.M.

Generator of shifted pulses on tunnel diodes. Prib. i tekh. eksp. 10  
no.1:207-208 Ja-F '65. (MIRA 18:7)

L 41209-66 EWT(m)/EWP(i)/EWP(e)/EWP(t)/ETI LIP(c) RM/WH/WW/ID/JG  
 ACC NR: AP6019635 (A, N) SOURCE CODE: UR/0048/66/030/002/0371/0377

AUTHOR: Afanas'yev, N.G. Startsev, V.I.; Smelov, Ye.M.; Kuplennikov, E.L.;  
 Stepula, Ye.V.; Petrenko, V.V.; Fursov, G.L. 76  
 74  
 B

ORG: none

TITLE: Investigation of elastic scattering of 70 MeV electrons on <sup>12</sup>C and <sup>9</sup>Be and  
 the mean square radii of those nuclei /Report, Fifteenth Annual Conference on Nuclear  
 Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 371-377

TOPIC TAGS: electron scattering, elastic scattering, form factor, nuclear radius,  
 beryllium, carbon

ABSTRACT: The authors have measured the elastic scattering cross sections of <sup>12</sup>C and  
<sup>9</sup>Be for 70 MeV electrons at different scattering angles between 30 and 150° in order  
 to evaluate the root-mean square radii of the nuclei. The 70 MeV electron energy was  
 chosen for the measurements because at that energy the momentum transfers are high  
 enough to permit determining the momentum transfer dependence of the form factor, and  
 yet low enough to allow of neglecting higher powers than the second (of the momentum  
 transfer) in the expression for the form factor. The electron beam was produced by  
 a pulsed accelerator. The primary beam intensity was measured with a secondary  
 emission monitor which was calibrated with a Faraday cup. The electrons that were

1/2



ACC NR: AP6030140

SOURCE CODE: UR/0120/66/000/004/0107/0109

AUTHOR: Afanas'yev, N. G.; Denyak, V. M.

ORG: Physicotechnical Institute, AN UkrSSR, Kharkov (Fiziko-tekhnicheskiy institut AN UkrSSR)

TITLE: Pulse shaper with two tunnel diodes

B  
51

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1966, 107-109

TOPIC TAGS: pulse oscillator, pulse shaper, multivibrator, *TUNNEL DIODE*, *PULSE AMPLITUDE*

ABSTRACT: A pulse shaper with two tunnel diodes that can generate output pulses with a constant amplitude and a range of pulse duration from 20 nsec to tens of milliseconds is described. The circuit (see Fig. 1) can work either as a pulse shaper with

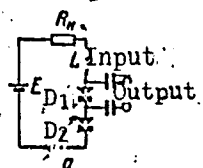


Fig. 1. Pulse shaper circuit with two tunnel diodes.

phase inversion or as a monostable multivibrator, depending on the load impedance and the initial quiescent point. If the load is inductive and the load line intersects

Card 1/2

UDC: 621.374.24

ACC NR: AP6034245

SOURCE CODE: UR/0120/66/000/005/0229/0230

AUTHOR: Afanas'yev, N. G.; Denyak, V. M.; Startsev, V. I.

ORG: Physics-Engineering Institute, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut AN UkrSSR)

TITLE: Generator of triple electrical and light pulses having a nanosecond duration

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 229-230

TOPIC TAGS: pulse oscillator, pulse generator, light pulse, nanosecond pulse, pulse multiplication

ABSTRACT: A description is given of a simple oscillator of short ( $10^{-8}$  sec) triple electrical and light pulses, suitable for adjusting of high speed scaling circuits, coincidence circuits, and for investigation of photomultiplier parameters. The advantage of such an oscillator is that it overcomes the shortcomings of its predecessors which are capable only of single pulse outputs, either electrical or light signals. The input oscillator of the system develops pulses of 50 V with a duration front of 10 to 15 nsec and sequence frequency from 1000 cps. Hydrogen dischargers are employed in the generator. The pulse shift is achieved by an alternating lag pattern having a magnitude of 0 to 0.5  $\mu$ sec. The width of the produced electrical pulses is 10 nsec, and that of light pulses, 50 nsec. Orig. art. has: 2 figures.

SUB CODE: 09,14/ SUBM DATE: 03Sep65/ ORIG REF: 005

ACC NR: AP6034224

SOURCE CODE: UR/0120/66/000/005/0090/0094

AUTHOR: Afanas'yev, N. G.; Denyak, V. M.; Reva, D. P.; Savitskiy, G. A.; Startsev, V. I.; Shevchenko, N. G.

ORG: Khar'kov Physicotechnical Institute, AN UkrSSR (Fiziko-technicheskiy institut AN UkrSSR)

TITLE: A cherenkov counter for recording high energy electrons

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 90-94

TOPIC TAGS: radiation counter, nuclear physics apparatus, electron detection, *CHERENKOV COUNTER*, *SPECTROMETER*

ABSTRACT: A Cherenkov counter serving as a detector of fast electrons at the output of a magnetic spectrometer is described. The counter is designed to detect electrons with  $E_e > 100$  Mev. from linear accelerators with sendings durations ranging from 0.2 to 2.5  $\mu$ sec. The electronic circuit of the counter includes a scaling circuit with a ratio of 1:4 and with the resolution of 30 nsec, a pulse forming circuit, and passing circuit which permit counter operation to be synchronized with the electrons accelerator. The time resolution of the counter (50 nsec.) permits recording of up to 4 pulses for each sending from the accelerator. Recording effectiveness is near 100%. The authors express their gratitude to V. V. Kondratenko, S. D. Faynizlberg, A. I. Germanov, and L. A. Makhnenko for the development of the device. Orig. art. has: 5 figures.

SUB CODE: 20 / SUBM DATE: 03Aug65/ ORIG REF: 003/ OTH REF: 003

Card 1/1

UDC: 539.1.074.4

AFANAS'YEV, N. I.

AFANAS'YEV, N. I.: "Agrophysical principles of irrigation-flooding of winter wheat in Rostov Oblast". Leningrad, 1955. All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin. Agrophysical Sci Res Inst. (Dissertations for the degree of Candidate of Agricultural Science.)

SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow.

3(7)

SOV/50-59-7-14/20

AUTHOR:

Afanas'yev, N. I.

TITLE:

Determination of the Evaporation Quantity ( Opredele niye velichiny ispareniya). (A Survey of the Work Carried out at the Experimental Station of \_\_\_\_\_ in England) (obzor rabot, vypolnennykh na Rotaustedskoy opyt noy stantsii v Anglii)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 7, pp 48 - 49 (USSR)

ABSTRACT:

This is an abstract on the basis of three papers in English by Professor H. L. Penman:  
Natural evaporation from open water, bare soil and grass. Proc. Roy. Soc. A, 193, 1948. A general survey of meteorology in agriculture and an account of the physics of irrigation control. Q. J. Roy. Met. Soc. 75, 1949. The physical bases of irrigation control. Rpt. 13th Int. Hort. Congr. 2, 1953. There are 3 references.

Card 1/1

AFANAS'YEV, N.I.

"Movement of film and vaporous water in soil under the effect of evaporation and transpiration" by M.Hallaire. Reviewed by N. I. Afanas'ev. Pochvovedenie no.9:107-112 S '62. (MIRA 16:1)  
(Soil moisture)  
(Hallaire, M.)

AFANAS'YEV, N.I.

Grouping soils according to productivity and recommendations  
for their efficient use in the U. S. A. Pochvovedenie no.9:  
103-110 Ag [i. e. S] '63. (MIRA 16:10)

(United States--Soils)

AFANAS'YEV, N.I.

Soil hydrological constants. Pochvovedenie no.10:88-90 0 '64.  
(MIRA 17:11)



APANAS'YEV, N.I.

Methods for determining the maximum hygroscopicity of soils.  
Dokl. AN BSSR 8 no.2:133-135 F '64. (MIRA 17:8)

1. Institut pochvovedeniya Ministerstva sel'skogo khozyaystva  
BSSR. Predstavleno akademikom AN BSSR I.S. Lupinovichem.

AFANAS'YEV, N.I.

Density and permeability of swampy soils of the White  
Russian S.S.R. Dokl. AN BSSR 9 no. 4:277-279 Ap '65  
(MIRA 19:1)

1. Institut pochvovedeniya Ministerstva sel'skogo khozyaystva  
BSSR. Submitted April 7, 1964.

LUPINOVICH, I.S.; AFANAS'YEV, N.I.

Thermal properties of waterlogged soils in the White Russian  
S.S.R. Dokl. AN BSSR 9 no.10:683-685 0 '65.

(MIRA 18:12)

1. Nauchno issledovatel'skiy institut pochvovedeniya.  
Submitted April 28, 1965.

YUN'KOV, A.A.; AFANAS'YEV, N. L.; and FEDOROVA, N. A.

"An Accelerated Method for Calculating the Anomalies of Gravitational Force,"  
Moscow, 1953

Trans - Sum No 363, 15 Mar 55

AFANAS'YEV, N.L.

Use of the Z-anomaly in determining the depth of a magnetized body.  
Geofiz. sbor. no.7:77-85 '64. (MIRA 17:11)

1. Dnepropetrovskiy gornyy institut imeni Artema.

AFANAS'YEV, N.L.

Determining vertical coordinates of the center of a disturbing body  
by the observed gravity anomalies. Prikl.geofiz. no.25:135-140  
'60.

(Gravity)

(MIRA 13:6)  
(Prospecting--Geophysical methods)

AFANAS'YEV, N.L.

Direct method of interpreting the  $\Delta g$  anomalies. Izv. AN SSSR, Ser.  
geofiz. no.10:1479-1484 0 '60. (MIRA 13:9)  
(Gravity)

YUN'KOV, A.A.; AFANAS'YEV, N.L.; FEDOROVA, N.A.; LYUBCHENKO, Ye.K., red.  
izd-va; IVANOVA, A.G., tekhn. red.

[Interpretation of  $V\Delta$ ,  $V_{zz}$  and  $Z$  anomalies over contacts and faults]  
Interpretatsiia anomalii  $V\Delta$ ,  $V_{zz}$  i  $Z$  nad kontaktami i sbrosami. Mo-  
skva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr,  
1961. 25 p. [Atlas of  $V\Delta$  grids for  $10^{\circ} \leq \alpha \leq 90^{\circ}$ ] Atlas paletok  
V dlia  $10^{\circ} \leq \alpha \leq 90^{\circ}$ . (MIRA 14:8)  
(Prospecting—Geophysical methods)



YUN'KOV, A.A.; AFANAS'YEV, N.L.; FEDOROVA, N.A.; LYUBCHENKO, Ye.K., red.  
izd-va; IVANOVA, A.G., tekhn. red.

[Interpretation of  $\Delta g$  anomalies over contacts and faults] Interpretatsiia anomalii  $\Delta g$  nad kontaktami i sbrosami. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. 1961. 34 p.  
— [Atlas of  $\Delta g$  charts for  $10^\circ \leq \alpha \leq 170^\circ$ ] Atlas paletok  $\Delta g$  dlia  $10^\circ \leq \alpha \leq 170^\circ$ . (MIRA 14:11)  
(Gravity prospecting)

S/169/62/000/007/050/149  
D228/D307

AUTHOR: Afanas'yev, N. L.

TITLE: Quantitative interpretation of gravity anomalies in the Krivorozhskiy Basin

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 27, abstract 7A176 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh; M., Gostoptekhizdat, 1961, 450-454)

TEXT: In the example of the Krivorozhskiy Basin's gravity field the author points out that it is possible to separate the field into a local and a regional field on the basis of studying the investigated area's physico-geologic conditions and the observed field's distributional character. It is described how local gravity anomalies are interpreted. [Abstracter's note: Complete translation.]

Card 1/1

AFANAS'YEV, N.L.

Smoothing out gravity anomalies. Izv. AN SSSR. geofiz. no.7:994-  
1003 J1 '61. (MIRA 14:6)

1. Dnepropetrovskiy gornyy institut imeni Artema.  
(Gravity prospecting)

YUN'KOV, A.A.; AFANAS'YEV, N.L.; FEDOROVA, N.A.; DYUKOV, A.I., red.;  
SERGEYEVA, N.A., red. izd-va; MANINA, M.P., tekhn. red.

[Method for rapid computation of gravity anomalies] Uskorenniy  
spisob vychisleniya anomalii sily tiazhesti. Moskva, Gos. izd-  
vo geol. lit-ry, 1953. 57 p. (MIRA 15:2)  
(Gravity prospecting)

AFANAS'YEV, N.I.

Interpretation of  $V_{sz}$  anomalies by the direct method. Geofiz.  
razved. no.5:15-27 '61. (Gravity) (MIRA 15:3)

AFANAS'YEV, N. M.

Feb 1948

USSR/Chemistry- Oils, Essential  
Chemistry- Analysis

" Composition of the Volatile Oil 'Artemisia Austriaca Jack'" , V. P. Gol'mov,  
V. I. Trofimov, N. M. Afanas'yev, Chair of Gen Chem, Stavropol Med Inst, 4 pp

" Zhur Obsheh Khim" Vol XVIII (LXXX), No 2

Studies of composition of subject oil. Following substances were isolated and identified: 30% cineole, 29% mixtures of alpha-, beta-thujone, about 3.5% thujone alcohol, about 2% phellandrene, and about 6% complex ethers. There were other highly volatile substances. Submitted 12 Aug 1946.

PA 68T47

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Organic Chemistry

4  
②chem  
Selective malonic synthesis. I. V. P. Gol'mov. *J. Gen. Chem. U.S.S.R.* 22, 1993-2000 (1952) (Engl. translation).—See *C.A.* 47, 9267A. II. Action of sodiomalonic ester on 4-bromo-3-bromobethyl-2-methylbutane. V. P. Gol'mov and N. M. Almas'ev. *Ibid.* 2001-5.—See *C.A.* 47, 9268a.  
H. L. H.

1. GOL'MOV, V. P., AFANAS'EV, N. M.
2. USSR (600)
4. Sodium Malonate
7. Selective malonic synthesis. Part 2. Action of sodium malonate on 4-bromo-3-bromomethyl-2-methylbutane. Zhur. ob. khim. 22, no. 11, 1952.

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



Selective malonic ester synthesis. III. The action of  
radioisotopic ester on 2-bromo-2-bromomethylacetate

V. P. Golovov and N. M. Alkhanov  
Khim. Zh. 1188 (3) 1983, 477-480, 480a

Tr. Akad. Nauk SSSR, Ser. Khim. Nauk, 1983, No. 3, 477-480, 480a

English translation in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

Abstract in: J. Radioanal. Nucl. Chem., 1983, Vol. 118, No. 3, 477-480, 480a

The first of these is the fact that the  
 information was obtained from a source  
 who has provided reliable information  
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 source who has provided reliable  
 information in the past.

2/2  
 V. R. G. ...  
 A. M. A. ...



APANAS'YEV, N.N., Cand Chem Sci--(also) "Study of essential oils of certain varieties of wormwoods of ~~the~~ North-Caucasian flora. Natural compounds with triple bonds." Odessa, 1951. 15 pp (Inst of Higher Education UkrSSR. Odessa State U in I.I.Kechnikov), 160 copies (KI,49-58,120)

AUTHORS: Gol'mov, V. P., Afanas'yev, N. M. SOV/74-27-7-1/7  
(Odessa)

TITLE: Natural Compounds With Triple Bond (Prirodnyye soyedineniya s troynymi svyazyami)

PERIODICAL: Uspekhi khimii, 1958, Vol. 27, Nr 7, pp. 785 - 816 (USSR)

ABSTRACT: This comprehensive article deals with the most important experience gained in the investigation of the relatively rare and very interesting group of natural organic compounds with a triple bond. In the introduction the author mentions that in spite of the articles published in foreign periodicals the chemistry of natural compounds with a triple bond (Refs 4-11) still needs further investigation. This even the more since the articles published in the course of the last years may already be looked upon as partly obsolete. Beginning in 1892 (separation of solid triglyceride from the seed of the *Picramnia tariri* carried out by Arno) up to the successful separation of two quadriphytines from *Caprinus quadriphydus* carried out by Berkinshou and Cheplen in 1955 (Refs 13-130) the present paper gives a survey of the most important publications in the chemistry of natural compounds with a triple bond. It is pointed out that

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only in the last years the systematic investigation of plants began with the aim to find the acetylene compounds which they are assumed to contain. Since then 50 such substances have been found. The major part of organic acetylene compounds originates from etheric oils or vegetable fats. Most of the acetylene compounds are separated from plants of the family Compositae. It is pointed out that substances with a triple bond are often found in the roots of such plants the parts of which above the ground had already been chemically investigated in detail at an earlier date. Finally the author says that no acetylene compounds have hitherto been separated from animal organisms (apart from the fact that in 1946 compounds with triple bond could be spectroscopically found in an acid fraction of butter). All known natural acetylene compounds without exception contain the normal carbon chain the length of which varies from  $C_8$  to  $C_{14}$  and from  $C_{17}$  to  $C_{18}$ . There are 2 tables and 132 references, <sup>19</sup> of which are Soviet.

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1. Organic compounds--Structural analysis    2. Chemistry--Bibliography

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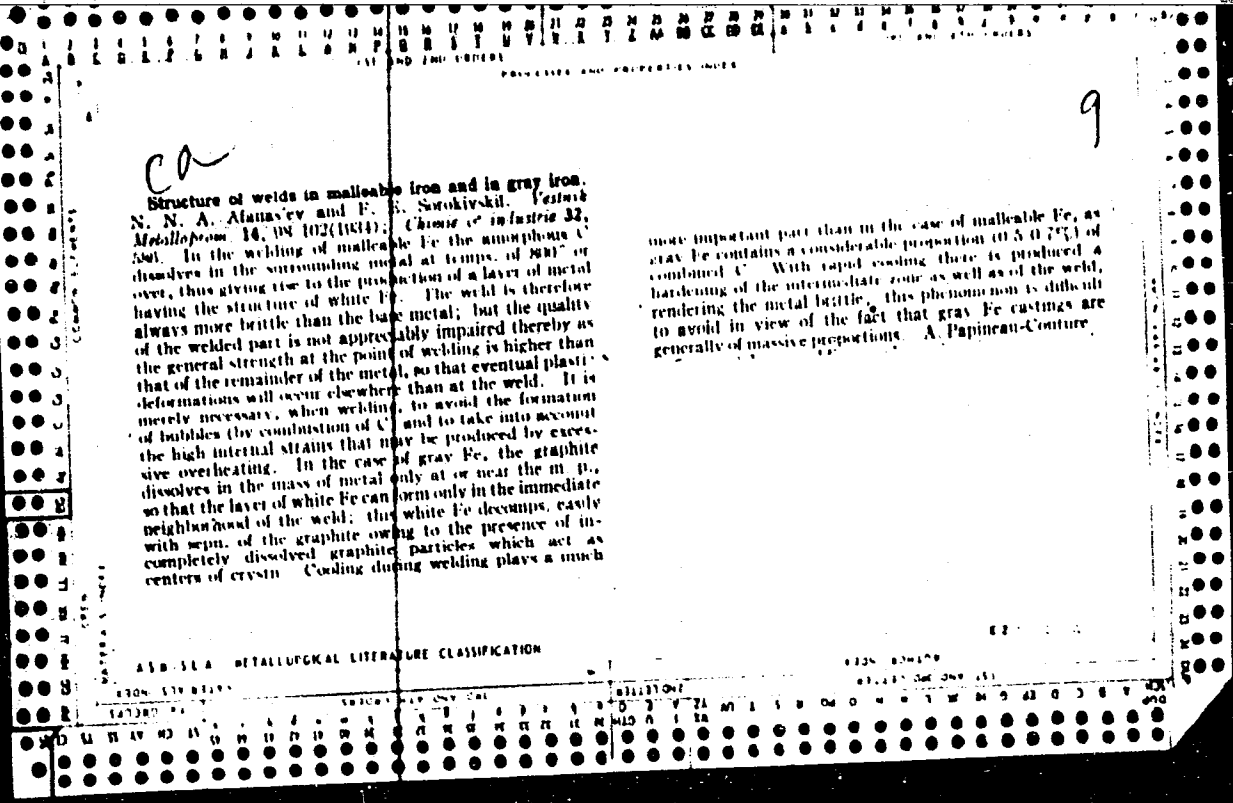
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COMMON ELEMENTS

COMMON VARIABLES INDEX

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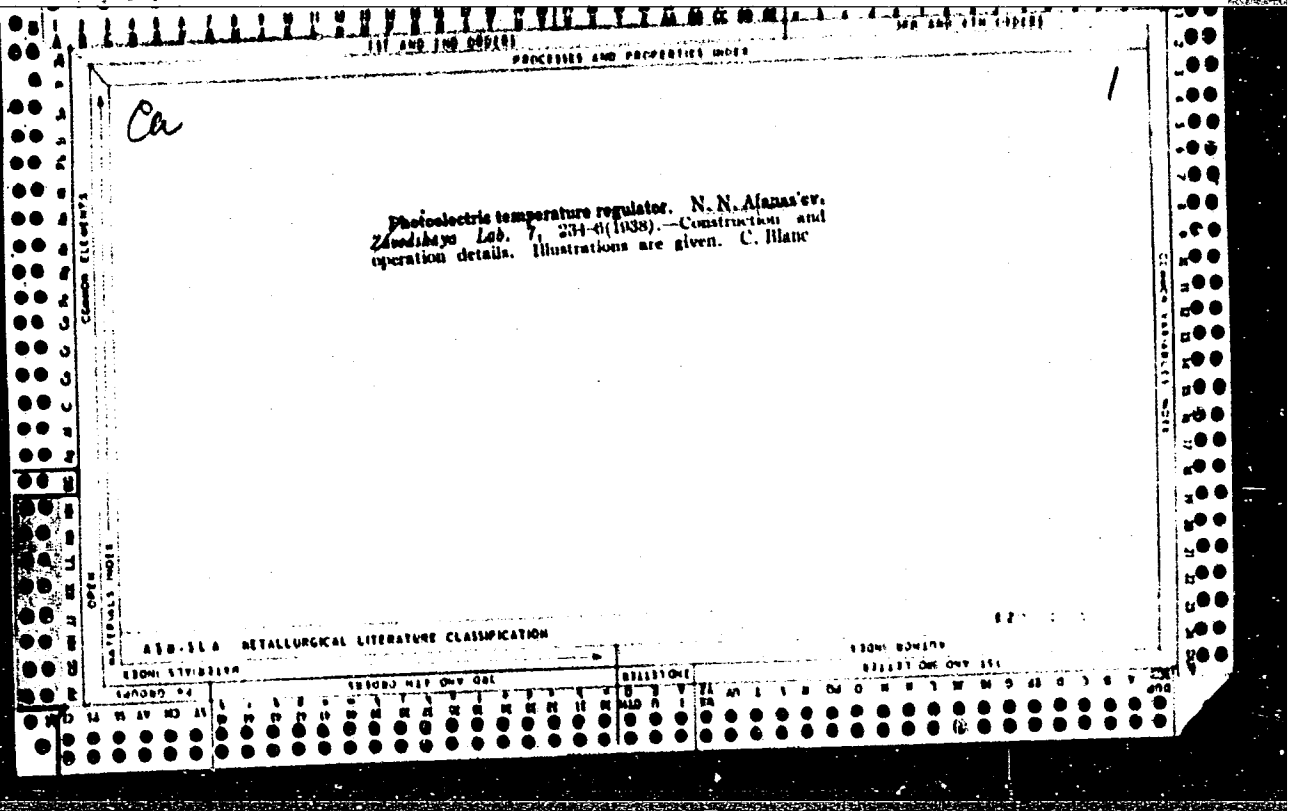
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION NUMBER

SECTION LETTERS

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The crystallization of pearlite in steel. N. N. Alau... Metallurg 13, No. 4, 54-61(1938). Crystn. of a eutectoid steel begins with the pptn. of cementite grains at the surface of the austenite grains. If the steel is cooled slowly these cementite grains form granular pearlite; if cooled rapidly a large no. of small grains of cementite are pptd. with subsequent pptn. of ferrite between them, resulting in a lamellar structure. H. W. Kathmann

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COMMON ELEMENTS

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