

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000102230003-0

USBR/Medicine - Plants
Medicine - Reproduction

Mar/Apr 68

"Concerning the Morphological Nature of the Lower Germ
of Several Specimens of the Caprifoliaceae Family,"
Z. T. Artushenko, 11 pp

"Botan Zhur" No 2

Subject plant has several unique reproductive
characteristics. Summarizes work done by various
authors, Attempts to explain the occurrence of
unfertilized seeds.

25/10/72

ARTUSHENKO, Z.T.; SOKOLOV, S.I.

On the growth of the leaf blade of some tree species. Bot. Zhur. 37,
No.5, 610-628 '52. (MIRA 5:10)
(Biol. A 28 no.3:6866 '54)

ARTUSTAMOV, V., predsedatel' sportivnogo komiteta korablya, kapitan-leytenant.

Each sailor an athlete. Sov.mor. 17 no.18:22 S '57. (MIRA 10:11)
(Physical education and training, Military)

L 24111-66 BWT(1)/FCC GW
ACC NR: AT6004291

SOURCE CODE: UR/1075/65/000/026/0015/0019

AUTHOR: Arustanova, M. V.; Fetisov, V. M.; Sukhanov, S.

ORG: none

TITLE: Magnetometer for measuring weak magnetic fields based on the Hall effect in InSb

SOURCE: USSR. Gosudarstvennyy geologicheskii komitet. Geologyn konstruktorskoye byuro. Geologicheskaya apparatura, no. 26, 1965, 15-19

TOPIC TAGS: weak magnetic field, Hall generator, Hall effect, indium, antimony, magnetometer, circuit design, electrode, electron tube, magnetic permeability, electric transformer, electric generator

ABSTRACT: Although a number of recent studies have been devoted to the problem of measuring weak magnetic fields with InSb and InAs Hall generators, a practical Hall-effect instrument has not been devised. The article reviewed below proposes a compact magnetometer based on the Hall effect in InSb with a sensitivity of the order of 6.5×10^{-6} oe. It has no rotating or vibrating parts and provides a simple means of continuous measurements under both steady-state and nonsteady-state conditions. The principle circuit diagram of the magnetometer is shown in the figure.

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ACC NR: AT6004291

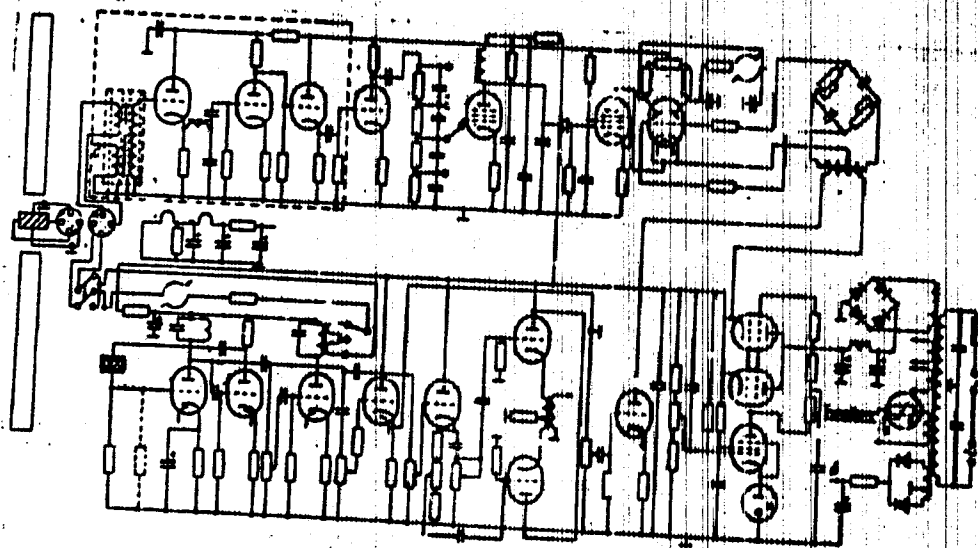


Fig. 1. Hall-effect magnetometer

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The sensitivity of the magnetometer depends not only on the voltage sensitivity of the Hall generator but also on the sensitivity of the output indicator, which, in turn, is determined chiefly by parameters of the input stage and the compensation quality of total parasitic voltages on the Hall electrodes. The low output resistance of the generator (2 ohms for a 70- μ thickness) allows for a tube-type output indicator with a sensitivity in the neighborhood of 10^{-10} v. To achieve such sensitivity, the amplifier tube in the input stage must have a low equivalent noise for a high transconductance at the operating frequency, and the stage must have high input and low output resistance for the smallest value of noise.

The low input resistance of the Hall generator permits the use of a noiseless transformer with a large transmission coefficient (750--2500), depending on the number of turns of the primary and secondary windings. The core is made of 79 NM Permalloy with a magnetic permeability coefficient of 130,000 g/oe. The transformer has three windings: w_1 , 7 turns; w_2 , 9 turns; w_3 , 7500 turns. Power supply for the Hall generator is from a 1-kc electronic generator.

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ACC NR: AT6004291

The input unit, together with some of the other units, is carefully screened. Both the screening and the use of a synchronous detector in the electronic section of the magnetometer have made it possible to increase its sensitivity to 0.008 μ v. Weak magnetic fields of the order of 10^{-8} oe can be measured with great accuracy. A further increase in the sensitivity can be obtained by increasing the magnetic field concentration and by improving the output indicator circuit. Orig. art. has: 1 figure, 2 tables, and 1 formula: /FSB: v. 2, no. 3/

SUB CODE: 09, 20 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 002

Card 4/4 *scu*

USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67049

Author : Artynev, A.I.

Inst :

Title : Application of Chlorinated Tap Water for Growing Leptospi-
res.

Orig Pub : Inform. byul. biol. prom-sti, 1957, No 2, 6-7.

Abstract : No abstract.

Card 1/1

KAPLINSKIY, M.; ARTYAKOV, P.

"Soils of irrigated areas in the central trans-Volga region."
V.P.Glukhovtsev. Pochvovedenie no.7:125-126 J1 '56. (MLRA 9:11)
(Volga Valley--Soils) (Glukhovtsev, V.P.)

BUROV, D.I.; ARTYAKOV, P.I.

Kuybyshev Branch of the All-Union Society of Soil Scientists.
Pochvovedenie no.8:115-116 Ag '57 (MIRA 10:11)
(Kuybyshev Province--Soil research)

ARTYEMOV, L. I. (Eng)
GOLDENBERG, G. M. (Eng)

Statistical data on the Yarnob National Statistical Bureau

1970-1971

IZRAIL'SKIY, V.P., prof., doktor biolog.nauk; SHUSTOVA, L.N., kand.med.
nauk; GOBLENKO, M.V., doktor biolog.nauk; MURAV'YEV, V.P.;
BKRZKOVA, Ye.F., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog;
GRUSHEVOY, S.Ye., doktor sel'skokhoz.nauk; NIKOLAYENKO, P.Ye.,
doktor biolog.nauk; BEL'YUKOVA, K.I., doktor biolog.nauk; SEARYGIMA,
L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; ART'YEM'YEVA,
Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; OSNITSKAYA, Ye.A.,
fitopatolog; YASHKOVA, N.V., fitopatolog-mikrobiolog; MIKHAENK'YAN,
R.O., kand.biolog.nauk; TETUREVA, I.V., red.; FEVNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2.,
perer. i dop. Moskva, Gos.isd-vo selkhoz.lit-ry, 1960. 467 p.
(MIRA 13:7)

1. Chlen-korrespondent Ukrainskoy AN (for Murav'ev).
(Bacteria, Phytopathogenic) (Plant diseases)

ARIPOV, E.A.; KHAMRAYEV, S.S.; BAKIYEVA, M.B.; ARTYKBAYEVA, Kh.Kh.;
AKHMEDOV, K.S.

Effect of the artificial soil aggregation agent K-4 on gray
desert soils having different degrees of dispersity. Usb.
khim. zhur. 7 no.4:35-40 '63. (MIRA 16:10)

1. Institut khimi AN UzSSR.

ARTYKHOV, M.L.

A method for counting integral points in n -dimensional polyhedra.
Dokl. AN SSSR 118 no.2:215-218 Ja '58. (MIRA 11:4)

1. Predstavleno akademikom I.M. Vinogradovym.
(Polyhedra)

SOV/137-57-11-20661

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 7 (USSR)

AUTHOR: Artykov, A.

TITLE: Cost Accounting and Unutilized Output Capacities at the Uzbek Metallurgical Plant im. V.I. Lenin (Khozyaystvennyy raschet i vnutriproizvodstvennyye rezervy Uzbekskogo metallurgicheskogo zavoda im. V.I. Lenina)

PERIODICAL: V sb.: Vopr. ekon. prom-sti UzSSR. Tashkent, AN UzSSR, 1957, pp 171-182

ABSTRACT: Cost accounting (C) and the utilization of fixed capital. C and the utilization of revolving funds. C and socialist emulation. C and reduction in cost of production. Data pertaining thereto are adduced for 1954-55 for the Uzbek Plant.

I.G.

Card 1/1

ARTYKOV, Abdulla ; TSOY, Grigoriy Leont'yevich; BONDARENKO, M., red.;
ABBASOV, T., tekhn. red.

[Reliable beacon of cotton growers; Stalin Collective Farm,
Yangi-Yul' District, Tashkent Province] Nadezhnyi natak khlop-
korobov; Kolkhoz im. Stalina, Angren'skogo raiona, Tashkent-
skoi oblasti. Tashkent, Gos.izd-vo UzSSR, 1961. 31 p.
(MIRA 15:1)

(Yangi-Yul' District--Cotton growing)

DZHAMALOV, O.B., doktor ekon. nauk; VOLOTKO, N.A.; YUI, D.N.,
kand. ekon. nauk; POPONOV, B.M., kand. ekon. nauk;
KALYAKIN, P.V., kand. ekon. nauk; DESYATCHIKOV, B.A.,
kand. ekon. nauk; KHUDKOVSKIY, A.B., kand. ekon. nauk;
ARTYKOV, A., kand. ekon. nauk; FOKIN, A.I.; UL'ASOV, A.,
kand. ekon. nauk; YAKOVENKO, Ye., red.; BAKHTIYAROV, A.,
tekhn. red.

[Principles of the economics of Uzbekistan industry] Osnovy ekonomiki promyshlennosti Uzbekistana; uchebnoye posobie
Tashkent, Gosizdat UzSSR, 1963. 282 p. (MIRA 17:1)

DESYATCHIKOV, B.A., kand. ekon. nauk; GABZAILOV, G.F., kand. ekon. nauk; KADYROV, Z., nauchn. sotr.; ABDUSHUKUROV, T.; KALIYAKIN, P.V., kand. ekon. nauk; FOKIN, A.I., kand. ekon. nauk; BAKIYEVA, R.A., nauchn. sotr.; IERAGIMOV, M., nauchn. sotr.; KARDASI, A.A., kand. ekon. nauk; KADANER, E.A.; NIKONOV, F.D., nauchn. sotr.; ANTONETS, G.M.; ARTYKOV, A.A., kand. ekon. nauk; TRUSOV, A.N.; OVCHAROVA, M.A., nauchn. sotr.; TSOY, P., nauchn. sotr.; KALIBANOV, P.V., kand. ekon. nauk, etv. red.; DZHAMALOV, O.B., doktor ekon. nauk, red.; ARTYKOV, A., kand. ekon. nauk, red.; DESYATCHIKOV, B.A., kand. ekon. nauk, red.; SHARIFKHODZHAYEV, M., kand. ekon. nauk, red.; DESYATNIK, F.M., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Economics of the machinery manufacture of Uzbekistan] Ekono-
mika mashinostroyeniya Uzbekistana. Tashkent, Izd-vo AN Uzb.SSR,
1963. 289 p.
(MCRA 16:12)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki.
(Uzbekistan--Machinery industry)

DESYATCHIKOV, B.A., kand. ekon. nauk; GABZAILOV, G.F., kand. ekon. nauk; KALYROV, Z., nauchn. sotr.; ABDUSHUKUROV, T.; KALYAKIN, P.V., kand. ekon. nauk; FOKIN, A.I., kand. ekon. nauk; BAKIYEVA, R.A., nauchn. sotr.; IHRAGIMOV, M., nauchn. sotr.; KARDASI, A.A., kand. ekon. nauk; KADANER, E.A.; NIKONOV, P.D., nauchn. sotr.; ANTONETS, G.M.; ARTYKOV, A.A., kand. ekon. nauk; TRUSOV, A.N.; OVCHAROVA, M.A.; TSOY, P., nauchn. sotr.; KAMBAKIN, P.W., kand. ekon. nauk, otv. red.; DZHAMALOV, O.B., doktor ekon. nauk, red.; ARTYKOV, A., kand. ekon. nauk, red.; DESYATCHIKOV, B.A., kand. ekon. nauk, red.; SHARIFKHODZHAYEV, M., kand. ekon. nauk, red.; DESYATNIK, F.M., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Economics of the machinery manufacture of Uzbekistan] Ekonomika mashinostroeniia Uzbekistana. Tashkent, Izd-vo AN Uzb.SSR, 1963. 289 p. (MLA 16:12)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki. (Uzbekistan—Machinery industry,

ARTYKOV, A.K.

Turkmen S.S.R. Prom.koop. no.1:18-19 Ja '57.

(MLRA 10:4)

1. Predsedatel' pravleniya Turkmenpromsovet.
(Turkmenistan—Cooperative societies)

POLOVENKO, I.S., kand. ekon. nauk.; SHIMKO, N.I., agronom-ekonomist.;
ARTYKOV, A., BORISOV, V.A., GONCHAROV, A.I., KLOTZ, Ye.A., SPIRANSKIY,
V.Z., SHAPIRO, L.L.; KALASHNIKOVA, V.S., red.; BALLOD, A.I., tekhn. red.

[Experience in introducing a new procedure in planning] Opyt.
vnedreniya novogo poriadka planirovaniya. Moskva, Gos. izd-vo
sel'khoz. lit-ry, 1958. 308 p. (MIRA 11:11)
(Agriculture)

GUMAROVA, F.G.; GOSTEVA, A.G.; TULEGENOV, Z.K.; MAJASHIEV, S.U.; POLOSUKHIN, A.P.; MUSABEKOV, A.M.; DANILOV, Yu.S.; NIGMATULII, M.A.; ZAKHAROV, F.G.; LUZINA, Z.T.; KUPESOV, T.I.; SPASYUNAS, I.P.; ISABEKOV, O.I.; SARSHIRAYEVA, K.; KATSYUBA, V.T.; LENOVSKIY, A.S.; AKHMEDOV, K.Yu.; SUBKHANBERDIN, S.Kh.; KISLITSINA, N.P.; POLIKARPOV, S.V.; ZAIROV, K.S.; APSATAROV, A.A.; NOVOSHEL'TSEV, V.H.; PETROV, M.N.; KHOMUTOV, M.V.; GALUSTYAN, A.S.; ARTYKOV, A.Ya.; DEMANDIL'DIN, N.); KODRIGINA, M.D.; BEYSERBAEV, M.; BUBELK, V.H.; CHERNYSH, A.M.

Discussion on the report of S.R. Karynbaev, Minister of Public Health of the Kazakh S.S.R., on the status and improvement of medical care. Zdrav. Kazakh. 17 no. 4/5 '57. (MIRA 12:6)

1. Zav. Alma-Atinskia oblastnym zdravotdelom (for Gumarova).
2. Vrach bol'nitay g. Leninogorska Vostochno-Kazakhstanskogo oblzdravotdela (for Gosteva).
3. Zav. Karagandinskim oblastnym otdelom zdravookhraneniya (for Tulegenov).
4. Zav. Kzyl-Ordinskim oblastnym otdelom zdravookhraneniya (for Makashova).
5. Vitsse-prezident AN KazSSR (for Polosukhim).
6. Zav. Aktyubinskim oblastnym otdelom zdravookhraneniya (for Musabekov).
7. Ministr zdravookhraneniya Kirgizii (for Danilov).

(Continued on next card)

GUMAROVA, P.G.—(continued) Card 2.

8. Zav.Vostochno-Kazakhstanskim oblastnym otdelom zdavookhraneniya (for Nigmatulin). 9. Chlen kollegii Ministerstva zdavookhraneniya SSSR (for Zakharov). 10. Zav.Kustanayskim oblastnym otdelom zdavookhraneniya (for Lazina). 11. Ministr zdavookhraneniya Turkmenskoy SSR (for Nemesov). 12. Zav.selskim vrachebnym uchastkom Priirtyshskogo rayona Pavlodarskoy oblasti (for Stasyunas). 13. Glavnyy vrach Kapal'akoy rayonnoy bol'nitsy Taldy-Kurganskoy oblasti (for Isabekov). 14. Zav.zhenotdelom Yuzhno-Kazakhstanskogo obkoma partii (for Sarsenbayeva). 15. Zav.Dzhambulskim oblastnym otdelom zdavookhraneniya (for Katsyuba). 16. Glavnyy vrach Alma-Atinskogo oblastnogo tuberkuleznogo dispansera (for Lenovskiy). 17. Ministr zdavookhraneniya Tadzhikskoy SSR (for Akhmedov). 18. Nachal'nik Kazaptekoupravleniya (for Subkhanberdin).

(Continued on next card)

GUMAROVA, F.G.---(continued) Card 3.

19. Zav. Semipalatinskim oblastny otdelom zdavookhraneniya (for Kislitsina).
20. Predsedatel' respublikanskogo komiteta soy:za medrabotnikov (for Polikarov).
21. Zam. ministra zdavookhraneniya Uzbekskoy SSR (for Zairov).
22. Zav. Alma-Atinskim gorodskim otdelom zdavookhraneniya (for Apsatarov).
23. Zav. Severo-Kazakhtanski oblastny otdelom zdavookhraneniya (for Novosel'tsev).
24. Zav. rayuzdravotdelom Shortandin-skogo rayona Akmolinskoy oblasti (for Petrov).
25. Zav. ministra zdavookhraneniya Soyuzn SSR (for Khomutov).
26. Zav. ministra zdavookhraneniya ArmSSR (for Galustyan).
27. Predsedatel' Komiteta fizicheskoy kul'tury i sporta pri Sovete Ministrov KazSSR (for Artykov).
28. Sekretar' Tsentral'nogo Komiteta Kommunisticheskoy partii Kazakhtana (for Dshandil'din).
29. Ministr zdavookhraneniya Sovetskogo Soyuzn (for Kovrigina).
30. Pervyy zamestitel' predsedatelya Soveta Ministrov KazSSR (for Beysebayev).
31. Uchastkovyy vrach Kustanayskoy oblasti (for Bublik).
32. Zam. predsedatelya Obshchestva Krasnogo Kresta Kazakhtana (for Chernysh).

(KAZAKHSTAN--PUBLIC HEALTH)

1. 00115-87 DMP(m)
ACC NRI: AP0031660

SOURCE CODE: UR/01.07.66/004/001/0156/0260

AUTHOR: Artykov, I. Z.; Barashenkov, V. S.; Yeliseyev, S. M.

38

ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy)

TITLE: Interaction of elementary particles with atomic nuclei in the energy region 1 - 30 Gev

SOURCE: Yadernaya fizika, v. 4, no. 1, 1966, 156-160

TOPIC TAGS: elementary particle, high energy interaction, high energy particle, statistic analysis, relativistic particle, pion, deuteron, proton alpha particle, particle collision

ABSTRACT: The authors present the results of statistical calculations of the interaction of protons with energies 6.2, 9, 17, and 25 Gev with emulsion nuclei. This is a continuation of earlier work, in which the model of intranuclear cascades followed by evaporation of nucleons, deuterons, and alpha particles from the residual nucleus, was used to explain the experimental data on proton-nucleus interactions at high energies. The present paper is devoted to more accurate calculations, carried out by the Monte Carlo method with account of the relativistic three-dimensional kinematics. The multiplicity of the particles produced in each inelastic νN and NN interactions was

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L 09415-67

ACC NR: AP6031660

determined by successively inserting the energies of the produced particles and trying to reconcile it with the average momentum spectra of the nucleons and pions until the total energy became larger than or equal to the total energy of the colliding particles. In all other respects the calculations were similar to those in the earlier work. The new data, together with the previously published ones, make it possible to state with sufficient assurance that at high energies, up to several dozen Gev, the interaction between the elementary particles and the atomic nuclei occurs essentially via the cascade-evaporation mechanism. At ultra-high energies, above 100 Gev, the situation is more complicated and many-particle interaction within the nucleus may play a major role. Orig. art. has: 3 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 25Jul65/ ORIG. REF: 009/ OTH REF: 012

Card 2/2

ARTYKOV, Mannap; KOCHEROV, V., red.; BABAKHANOVA, A., tekhn. red.

[Every family should have a comfortable apartment] Ka. hoi
sem'e - blagoustroenniu kvartiru. Tashkent, Gosizdat
UzSSR, 1962. 51 p. (MIRA 15:7)
(Uzbekistan--Housing)
(Uzbekistan--Construction industry)

ARTYKOV, M.B.; SAFAROV, G.I.

Measures for the eradication of *Taeniarhynchus* infestation in a
collective farm of Bukhara Province. Med. paraz. i paraz. kol. 33
no.4:458-461 J1-Ag '64. (MIRA 18:3)

1. Bukharskaya sanitarno-epidemiologicheskaya stantsiya.

LIPKIN, M.Ye.; ARTIKOV, M.S.; ISAYEV, Yu.V.; POLJUYAN, P.A.; VARIYODINA, T.A.;
SHILYAYEV, L.F.; PUN'KO, T.A.; ANDREYEVA, A.P.; IANULINA, L.I.;
ABRAMOVA, S.G.; KLIMOVA, T.K.; YEGOROV, V.A.; KEFETEV, N.I.; KABIROVA,
M.B.; DASHEVSKIY, V.V.; SORKIN, Yu.I.; KOLINDOVICH, A.I.; SERGETEVA,
L.I.; NAGAYEV, V.N.; NESTEROVA, G.N.; ALEKSEYNVA, N.A.; GOLUBEVA, V.N.;
ANISIMOVA, T.I.; OVABAPYAN, O.V.; GALOYAN, V.O.; IRANSELYAN, K.A.

Abstracts of articles received by the editors. Zh. r. mikrobiol., epid.
i immun. 42 no.3:147-152 Mr '65.
(MIRA 18:6)

ZHITNITSKAYA, E.A.; GORODILOVA, L.I.; SAPAROV, G.I.; ARTYJOV, M.B.;
ARASHEV, A.A.; SAFAYEVA, D.B.

Organization of measures for the eradication of an ankylostomiasis
focus in Karakul District, Bukhara Province. *Mud. paras. i paras.*
bol. 33 no.6:707-710 N-D '64. (MIRA 18:6)

1. Usbekskiy institut eksperimental'noy meditsinskoy parazitologii
i gel'mintologii, Bukharskaya oblastnaya sanitarno-epidemicheskaya
stantsiya i Karakul'skaya tsentral'naya rayonnaya kol'nitsa.

L 1913-66 EWT(1)/EWA(3)/EWA(b)-2 JK
ACCESSION NR: AP6030053

UR/0242/65/001/908/0046/0045

AUTHOR: Artykov, M. S.

TITLE: Characteristics and numerical composition of various species of intestinal bacteria in the soil of the city of Tashkent, depending on season

SOURCE: Meditsinskiy zhurnal Uzbekistana, no. 6, 1965, 44-45

TOPIC TAGS: bacterial disease, sanitation, soil bacteriology, hygiene, micro-organism contamination, disease control

ABSTRACT: Soil bacterial content was determined separately for districts with and without sewers to determine the presence of citrate-negative forms connected in; a sign of high and continuous soil contamination by feces. In spring, citrate-negative forms (Bact. coli commune) were found in 80.6% of cases, and the remainder were citrate-positive (11.8% were Bact. aerogenes). The content of negative forms decreased during the following seasons with a concomitant increase in positive forms (Bact. aerogenes to 41.1%) in the fall. In districts with sewers,

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L 1913-66

ACCESSION NR: AP6020063

the citrate-positive forms always prevailed, with some citrate-negative found only in spring and summer. Intermediate bacterial forms were also seen in districts without sewers, particularly in winter, including lactose-negative bacteria of the paratyphoid type. In the districts without sewers there were many cases of gastrointestinal disease. Orig. art. has: None.

ASSOCIATION: Uzbekskogo nauchno-issledovatel'skogo instituta sanitarny i profzabolevaniy (Uzbek Scientific Research Institute for Sanitation, Hygiene and Occupational Diseases)

SUBMITTED: 08Sep64

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 000

Card

ARTYKOV, O.

Cultivation of hairy vetch in northern Turkmenistan. Izv. AN
Turk. SSR. Ser. biol. nauk no. 4:83-85 '63. (MIRA 16:9)

1. Turkmenkiy sel'skokhozyaystvennyy institut imeni Kalinina.
(Turkmenistan—Vetch)

ABUTALIYEV, F.B.; UMAROV, U.; ARTYKOVA, N.

Calculating the prognosis of the level changes of underground
waters using electronic computers. *Usb.geol.zhtr.* 6 no.4:
83-87 '62. (MIRA 15:9)

1. Institut geologii i inzhenernoy geologii AN UzSSR.
(Water, Underground)
(Electronic digital computers)

I 16166-45 INT(1)/SPA(1)-2/SP(1)-2/MS(C)/SP(1) 1956(29)/ADDC(1)/SAB/SP(1) 1956

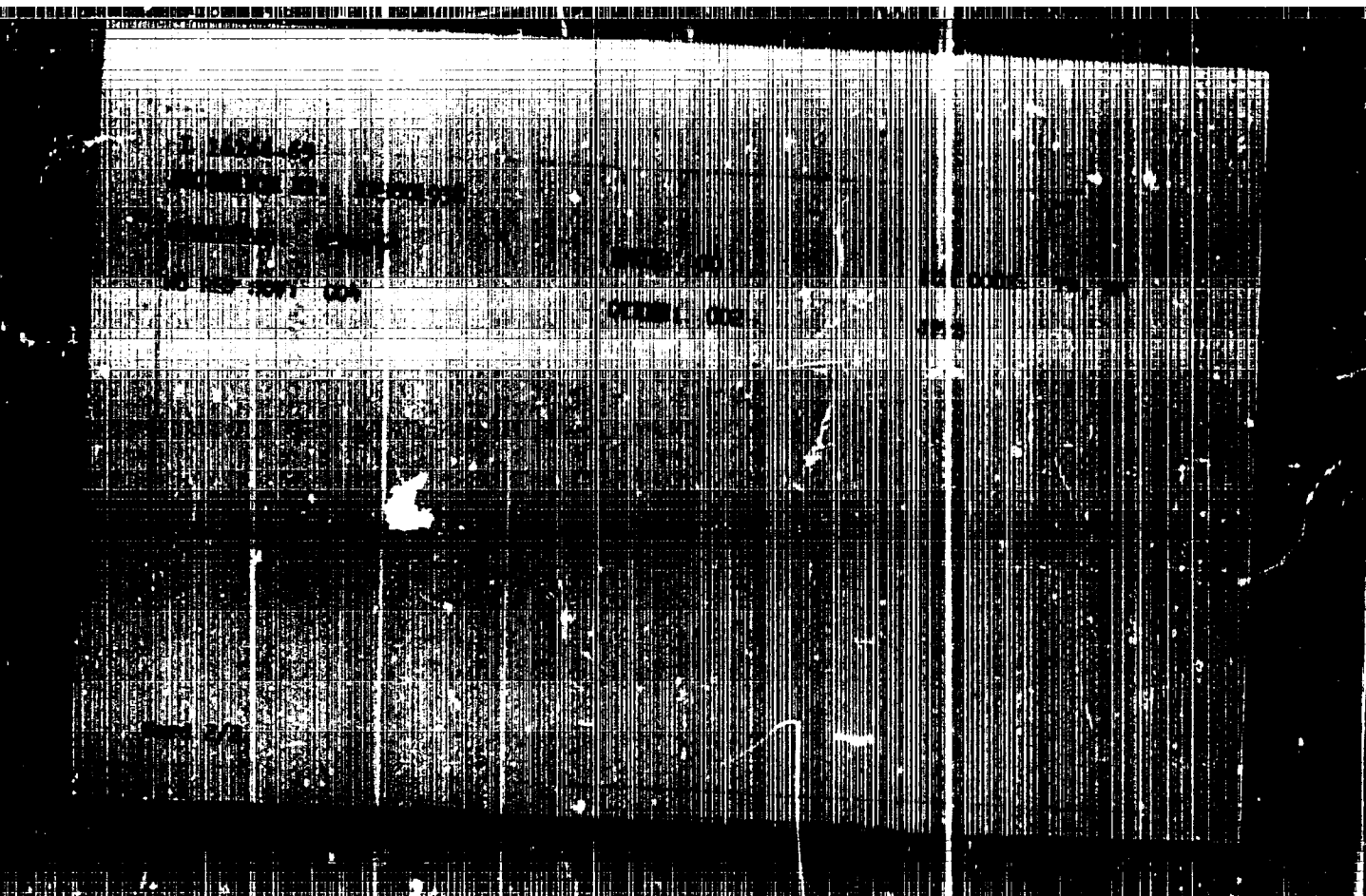
ASSOCIATION: ASSOCIATION

AUTHOR: ANTONI, J. P.

Abstract: Stationary temperature fields in the ground are determined by applying paired integral equations to the boundary value problem of the stationary temperature field in the ground. The solution is obtained by applying paired integral equations to the boundary value problem of the stationary temperature field in the ground. The solution is obtained by applying paired integral equations to the boundary value problem of the stationary temperature field in the ground. An analogous solution of the problem is obtained by G. V. Poddubnyy (Inzhenerno-fizicheskii zhurnal, No. 7, 1957). Orig. lang. has 20 equations.

ASSOCIATION: Vychislitel'nyi tsentr AN SSSR, Moscow (Computer Center, AN SSSR)

Card 1/2



USSR/ Electronics - Modulators

Pub. 133 - 5/19

Author: Aron, A. D., Candidate of Engineering Sciences and Lecturer at the Kailina Polytechnic Institute of Leningrad

Title: New method of suppressing dynamo-oscillations generated in powerful modulator-installations (in radio transmission)

Periodical: Vest. svyazi 1. 10 - 11, Jan 1 '55

Abstract: A new method of suppressing oscillations was invented by Leningrad radio transmitters operating with powerful dynamo tubes. The method consists in incorporating an anti-dynamo tube. Experiments were conducted to determine the stability of various modulation systems: with and without an anti-dynamo tube. Oscillograms show the advantages of the proposed method which also results in an increase in power economy and reduction in non-linear distortions in the grid circuit of the modulator tube. Circuit diagram, graphs.

Institution:

Submitted:

ARTIM, A. L.

"A New Method of Phase Modulation," Radio Tekh, No 1, p 5, 1955

ACC NR: AM 1110

SOV. S. CODE: UA/000/66/000/000/003/003/9

AUTHORS: Artykov, T. U.; Avazmukhamedova, K.

ORG: none

TITLE: On two methods for solving Helmholtz and Poisson equation:

SOURCE: AN UzSSR. Institut matematiki. Resheniye uravneniy gidro-ermodinamiki primenitel'no k zadacham meteorologii (Solution of equations in hydrothermodynamics applied to problems in meteorology) Tashkent, Izd-vo FAN UzSSR, 1960, 33-39

TOPIC TAGS: Poisson equation, weather forecasting, approximation, atmospheric geopotential, weather map, matrix element

ABSTRACT: An experimental study of numerical weather forecasting is made. The work was done to reduce the errors caused by insufficient description of physical processes by mathematical equations and by calculation errors. The method of planes is used. The matrix of the known right sides of the Helmholtz equation

$$\Delta \frac{\partial H}{\partial t} - k^2 \frac{\partial H}{\partial t} = -\epsilon_T(H, \Delta H) - \beta \frac{\partial H}{\partial x}$$

is found. Its elements are

$$F_{ij} = \epsilon_T(H, \Delta H)_{ij} + \beta \left(\frac{\partial H}{\partial x} \right)_{ij}$$

Then the method of straight lines with respect to the variable y is used. The

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obtained system of ordinary differential equations for x is put in canonical form

$$\frac{d^2\phi}{dx^2} - \left(k^2 + \frac{2}{k^2}\right)\phi + \frac{1}{k^2}L(\lambda)\phi = M.$$

The influence-function method is examined. A working formula for the Helmholtz and Poisson equations is found as

$$\frac{dH}{dt} = \sum_{i=1}^n b_i A_i.$$

where b_i are the weighting factors and $n = 45$ is the number of points within the selected domain. The Jacobians in this formula are determined. The results obtained show that the Helmholtz equation gives a better description of the prognostic fields. Orig. art. has: 7 formulas, 2 maps, and 2 tables.

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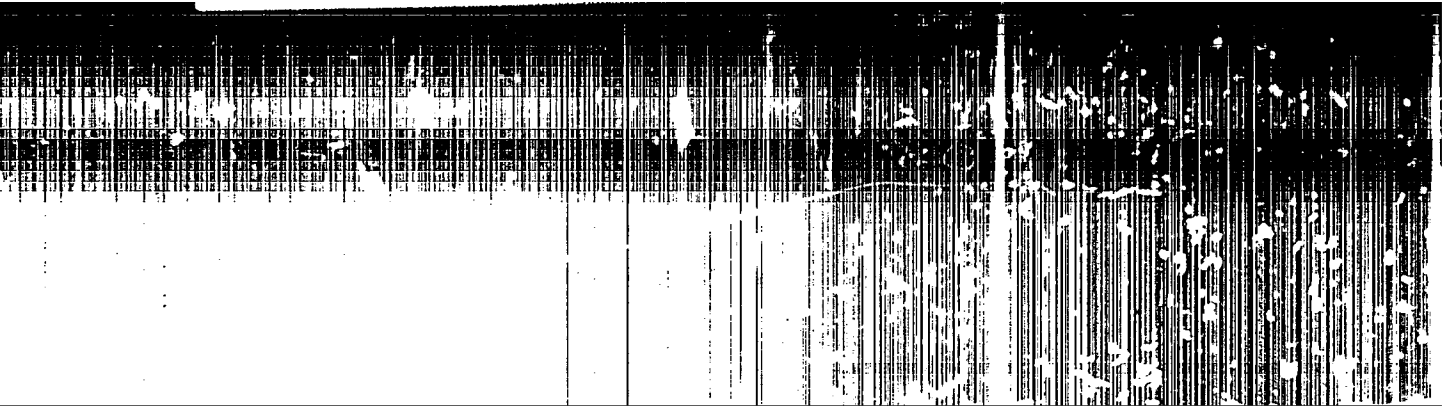
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