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Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

AUTHOR: Grisin, A.

TITLE: Amateur Acoustic Systems [illegible]

PERIODICAL: Radio, [illegible], Nr 11, pp [illegible] ([illegible])

ABSTRACT: The author gives a brief review of the [illegible] acoustic units of sound-reproducing equipment, [illegible] cusses various systems of [illegible] the [illegible] of the simplest and most widely used systems ([illegible] have two wide-band loudspeakers [illegible] panel of the cabinet, [illegible] two [illegible] loudspeakers in the side panels switched in through a separating condenser; this limits the level of the lower frequencies, [illegible] the loudspeakers can handle a power three times greater than [illegible] nominal power. A good 5-b sound effect can be achieved by placing the radio set in a corner, and two extension loudspeakers, working on medium and high [illegible] of [illegible] meters on the walls forming this corner ([illegible]). Even more effective [illegible] of a trihedral [illegible] loudspeakers mounted on a board [illegible] of the room ([illegible]). [illegible] the loudspeakers in the cabinet [illegible]

Card [illegible]

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV

AUTHOR: Grinilev, S. 25-58-4-28/41

TITLE: For Relay-Circuits (Dlya releynykh skhem)

PERIODICAL: Nauka i Zhizn', 1958, Nr 4, page 70 (USSR)

ABSTRACT: The model of a machine for rapid and accurate analyses of the performance of relay-contact circuits, which are already mounted or being planned, is shown at the Brussels International Exhibition. The machine was designed by the Institut avtomatiki i telemekhaniki Akademii nauk SSSR (Institute of Automation and Telemechanics of the USSR Academy of Sciences). Information includes a description of this device.

AVAILABLE: Library of Congress

Card 1/1 1. Electric relays-Performance 2. Electric relays-Analysis

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV, Lev Solomonovich; KIPNIS, Solomon Yefimovich; GUROV, S., red.; PAVLOVA, S., tekhn. red.

[Wonderful lines] Chudesnye linii. Moskva, Mosk. rabochii, 1961. 93 p. (MIRA 15:3)
(Assembly line methods) (Automation)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

On Cybernetics SOV/506

Dispatcher Control of the Power-System Load (3)

Robot Locomotive Engineer (3)

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Card 4/4

VK/gmp
2-4/60

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On Cybernetics SOV/3026

Reading 17

Translating 17

"Comprehension" 21

Planning Strategy 22

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Robot Steelworker 25

Robot Control of a Rolling Mill 26

In Chemistry 27

In Machine Building 28

Card 3/4

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On Cybernetics SOV/3026

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

28(1,2) [illegible] SOV/3026

Grinilev, Lev Solomonovich

O kibernetike (On Cybernetics) Moscow, Izd-vo "Znaniye," 1959. 30 p. (Series: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya IV, 1959, No. 28) [illegible] copies printed.

Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.

Scientific Ed.: A. Ye. Kobrinskiy; Ed.: T.F. [illegible]; Tech. Ed.: L.Ye. Atroshchenko.

PURPOSE: This booklet is intended for those interested in current scientific and technological developments.

COVERAGE: The author discusses the elementary principles of cybernetics, its distinguishing features, and the vast possibilities which it opens up for industry, transportation, agriculture, and other branches of the Soviet economy. No personalities are mentioned. There are no references.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV, L., inzh.

Pick-ups as "sence organs" of automats. Nauka i zhizn' 29 no.10:73 O '62. (MIRA 15:12)
(Engineering instruments)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV, L., inzh.

Pickups are the "sense organs" of automats. Nauka i zhizn' 29 no.9:49 S '62. (MIRA 15:10)

(Electric measurements)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV, L., inzh.

Pickups as the "sense organs" of automatic machines. Nauka i zhizn' 29 no.6:81-82 Je '62. (MIRA 15:10)
(Electric apparatus and appliances)
(Automation)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV, L., inzh.

"Art of turning and twisting with double transmission." Nauka i zhizn' 29 no.2:102-103 F '62. (MIRA 15:3)
(Perpetual motion)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

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GRINILEV, L.

Made in France. Nauka i zhizn' 27 no.5:68-69 My '60.
(MIRA 13:6)

(France--Scientific instruments)
(Moscow--Exhibitions)

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67654
SOV/25-60-2-25/42

A Pocket Atomic Generator

collector. The lead out of the positive electrode is obtained by a platinum soldering through a "pinch" - the negative through the ring of the envelope. Inside the envelope, a vacuum of 10^{-6} mm Hg is created. The source with the emitter gives a voltage up to 24 kv.

4

Card 2/2

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67654

~~21(9)~~ 21.5100

SOV/25-60-2-25/42

AUTHOR: Grinilev, L.

TITLE: A Pocket Atomic Generator

PERIODICAL: Nauka i zhizn', 1960, Nr 2, p 66 (USSR)

ABSTRACT: Recently, Soviet scientists have developed a new type high-voltage atomic source, suitable for being used in a portable apparatus and for feeding various electronic devices. With its aid, low capacities (depending on the speed of charge accumulation) can be determined and high resistances up to $1,5 \cdot 10^{13}$ Ohm can be measured. This miniature atom generator is a balloon, obtained by welding two glass cylinders to a metal ring separating them. Inside the ring, a collector of beta-particles is fastened by spring catches. The outer cylinder of the collector is made of nickel, the inner one of aluminum. A seamless nickel tube with a thin layer of an active preparation uniformly applied inside is used as a beta-particle source. The tube is placed coaxially with the

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23(5) SOV/25-59-3-25/48

AUTHOR: Grinilev, L.

TITLE: A Developer Made of Phenidone (Proyavitel' iz fenidona)

PERIODICAL: Nauka i zhizn', 1959, Nr 3, pp 67 - 68 (USSR)

ABSTRACT: The author describes the advantages of a fine-grained developer containing phenidone, which has recently been produced abroad.

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SOV/25-59-[illegible]-11/48

Miraculous Crystals

spectacles etc. The semiconductor super-heterodyne receiver "Sputnik", which is intended for the reception of middle wave range programs, is of special interest. This receiver is equipped with 9 semiconductors which can be fed for 25 hours from the battery of a pocket lamp. A miniature power station, which supplies energy, is equipped with semiconductor generators - small silicon disks, which transform sunrays or the light of a bulb into electric current. There are 12 photos.

Card 2/2

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9(4) SOV/25-59-2-12/48

AUTHOR: Grinilev, L.

TITLE: Miraculous Crystals (Chudesnyye kristally)

PERIODICAL: Nauka i zhizn', 1959, Nr 2, p 34-35 (USSR)

ABSTRACT: This article contains short descriptions and photos of some exhibits shown at the exhibition "Semiconductors and their Applications in the National Economy" in the Politekhnicheskiy Muzey (Polytechnical Museum) in Moscow. The concerned items are a double-tube semiconductor sorter intended for the sorting of metal products according to surface criteria; an electro-thermometer with semiconductor probe for medical purposes; a temperature signalization device; a semiconductor device controlling the tension of electric motors; a semiconductor block element of an "electronic brain"; a four-cascade sound intensifier installed in the temples of a pair of

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GRINILEV, L.

Extreme regulators. Nauka i zhizn' 25 no. 6:66-67 Je '58.
(MIRA 11:8)

(Governors(Machinery))

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

AUTHOR: Grenitov, L. Engineer [illegible]

TITLE: 1,000 Times Thinner than a Hair (V 1,000 raz tonshe volosa)

PERIODICAL: Nauka i zhizn', 1958, Nr 9, p 69 (USSR)

ABSTRACT: The Elektrofizicheskaya Laboratoriya Instituta metallurgii AN SSSR (The Electro-Physics Laboratory of the Metallurgical Institute of the AS USSR) constructed a device which can produce an endless wire, 1 micron thick, covered with glass. The device was invented by V.N. Parkhachev under the supervision of Professor A.V. Olilevskiy. A glass tube, containing the metal from which the wire will be made, is placed in an inductor connected with a high frequency generator. The metal (melted in the high frequency field) softens the bottom of the glass tube and, together with this glass coating, is twisted around a rotating reel. One drop of metal can give about 2 km of 1-micron-thick wire.

1. Wire--Manufacture 2. Wire--Coatings 3. Glass coatings --Applications

Card 1/

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINILEV, L

AUTHOR: Grinilev, L. 25-2-17/43

TITLE: A Flat Television Receiver (Ploskiy televizor)

PERIODICAL: Nauka i Zhizn', 1958, # 2, p 48 (USSR)

ABSTRACT: In this article the author gives a detailed description of a new flat television receiver designed independently in two American research laboratories. The main problem consisted in reducing the length of the television tubes while maintaining the size of the screen.

There is one illustration.

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GRINILEV, L.

AUTHOR: Grinilev, L., Engineer 25-12-25/39

TITLE: Aerogeophysical Station (Aerogeofizicheskaya stantsiya)

PERIODICAL: Nauka i Zhizn', 1957, # 12, pp 47 (USSR)

ABSTRACT: The most perfect device for locating mineral deposits from airplanes is the aerogeophysical station "АСГ-38" . This device was constructed for prospecting minerals found in radioactive, and magnetic rocks. The fundamental difference between the "АСГ-38" and devices formerly used is that its gamma transducer is not equipped with gas-filled Geiger-Mueller counters, but scintillation counters. By this, sensibility was increased from 2.5 to 3 times, and has eliminated almost completely the influence of cosmic radiation upon the operation of the station. The high sensitivity of the gamma channels enabled to apply the so-called discriminating arrangement which distinguishes between uranium and thorium ores. The device weighs 160 kg, and consists of a magnetic transducer, installed in a gondola, which is mounted in the fuselage or wing, a gamma transducer and a panel registering the entire gamma field, the indications of the sound-ranging altimeter indications, the magnetometer and the gamma channel after discrimination.

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GRINILEV, L.

AUTHOR: Grinilev, L. 25-10-20/41

TITLE: Electronic Miscroscope (Elektronnyy mikroskop)

PERIODICAL: Nauka i zhizn', 1957, # 10, p 49 (USSR)

ABSTRACT: The East German enterprise (WF" produced a new small electronic microscope "KEM-1" which gives a 30,000 fold enlargement, its resolving power equals about 5 millimicrons. The microscope's stand has the form of a desk, inside of which are installed: a high-voltage unit, a water-cooled oil diffusion vacuum pump, voltage and lens current stabilizers. The plate voltage can amount to 40, 50 or 60 kilovolt. The deflection system consists of three electro-magnetic lenses: the objective, condenser and projection lens. The screen of the microscope represents a luminescent layer on a glass basis. A photographing device is installed between the production lens and the screen.

There is one photograph.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

AUTHOR: Grinilev, L. 25-9-27/40

TITLE: Spectrum Devices (Spektral'nyye pribory)

PERIODICAL: Nauka i Zhizn', 1957, # 9, p 52-53 (USSR)

ABSTRACT: The author describes a spectrograph, "ДФС-9" exhibited at the All-Union Industrial Exhibition, whose diffraction grating is concave, intended for conducting qualitative and quantitative analyses of metals, alloys, ores and minerals. The spectrograph is very useful for research laboratories, but requires photoprocessing of the spectrum pictures obtained. For industrial purposes, where hundreds of qualitative determinations have to be obtained within the shortest time, the use of the photoelectric device "ФЭС-1" is recommended, which is also shown at the exhibition. Owing to the application of the photoelectric method of measuring the intensity of the spectrum lines and full automation of the analysis process, the determination of an element's concentration is made possible within 2 or 3 minutes.

There are 2 figures.

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YEVLASHENKO, Fedor Vasil'yevich; GRINIKH, A.K., inzh., retsenzent; KAPLAN, Ye.D., inzh., retsenzent; NOVIKAS, M.N., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Safety engineering in signaling and communications]Tekhnika bezopasnosti v khoziaistve signalizatsii i sviazi. Moskva, Transzheldorizdat, 1963. 143 p. (MIRA 16:4)

(Railroads--Signaling)
(Electric lines--Overhead)

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VASIL'YEV, A.; GRINIK, G.; ALEKSANDROV, N.

Not in seven years but in four and a half. Prom.koop. 14 no.4: 13-18 Ap '60. (MIRA 13:6)

1. Predsedatel' pravleniya promyslovoy arteli "Druzhba", g. Kanash Chuvashskoy ASSR (for Vasil'yev). 2. Tekhnoruk promyslovoy arteli "Druzhba" g. Kanash, Chuvashskoy ASSR (for Grinik). 3. Sekretar' partiynoy organizatsii promyslovoy arteli "Druzhba," g. Kanash, Chuvashskoy ASSR (for Aleksandrov).
(Kanish--Manufactures)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINIENE, E.

On clinical forms of endemic goiter in the city of Siauliai. Sveik.apsaug. 9 no.1:16-23 Ja'64.

1. Kauno Valst. medicinos instituto vidaus ligu propedeutikos katedra ir Resp. Siauliu ligonine.

*

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GRINGOROVICH, V.K.

A

Q

9-196. A Basic Method of Determination and Calculation of Hardness. (In Russian.) V. K. Gringorovich. *Zavodskaya Laboratoriya* (Factory Laboratory), v. 15, Apr. 1949, p. 457-460.

Critically analyzes existing methods for hardness determination. The methods used for calculation of hardness from the test readings sometimes result in erroneous interpretations. A new method is proposed which would standardize such determinations.

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GRINGOL'TS, L.A.; KOZYREV, S.M.; SIROTTA, B.L.; FILINA, M.D.; YURKEVICH, V.S.; GUREVICH, Ya.D., redaktor; BEKMAN, Yu.K., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Manual of wages in the petroleum industry] Spravochnik po zarabotnoi plate v neftianoi promyshlennosti. Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 342 p. (MLRA 9:10)

(Wages) (Petroleum industry)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGOL'TS, I., kand.yurid.nauk

"Invention and innovation in the U.S.S.R." Reviewed by I. Gringol'ts. Izobr. i rats. no.8:37 Ag '62. (MIRA 15:9)
(Inventions)

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GRINGOL'TS, I., kand.yurid.nauk

Two chapters of the law. Izobr.i rats. no.4:32 Ap '62. (MIRA 15:4)

(Patent laws and legislation)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

LUK'YANOV, Ye.K.; L'VOV, A.M.; SAMORUKOV, I.A.; GRINGOF, R.N.

New pickup for medical apparatus. Med.prom. 13 no.11:47-52 N '59. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya, SKTB Biofizpribor.
(MEDICAL INSTRUMENTS AND APPARATUS)

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GRINGOF, Erika Khrisoforovna

[Calf barn for 146 head with a section for newborns, constructed of precast reinforced concrete elements, with a loft. Model plan No. 219] Teliatnik na 146 golov s pomeshcheniem dlia molodniaka iz sbornykh zhelezobetonnykh konstruktsii, izgotovliaemykh v kolkhozakh s cherdachnym pomeshcheniem. Tipovoi proekt No.219. Kiev, Izdatel'skii otdel, 1956. 14 p., 70 plans. (MLRA 9:10)

1. Ukrainskiy gosudarstvennyy institut proyektirovaniya sel'skogo i kolkhoznogo stroitel'stva.
(Barns)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGOL'TS, I., yurist; MAMIOFA, I., yurist

From the devil. Izobr.i rats. no.12:29 D '62. (MIRA 15:12)
(Technological innovations)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGOL'TS, I., kand.yurid.nauk

Supreme Court of the U.S.S.R. interprets. Izobr. i rats. no.6:32-34 Je '61. (MIRA 14:6)

(Technological innovations) (Patent laws and legislation)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

L'VOV, A.M.; GRINGOF, R.N.; GEYVINA, M.V.

Electron stethoscope. Med. prom. 15 no.9:53-56 S '61. (MIRA 14:9)

1. Samostoyatel'noye konstruktorskoye tekhnologicheskoye byuro "Biofizpribor".
(AUSCULTATION--EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

SAMORUKOV, I.A.; L'VOV, A.M.; GRINGOF, R.N.; LUK'YANOV, Ye.K.

System of lineal compression for the measurement of blood pressure. Med. prom. 15 no.7:30-35 Jl '61. (MIRA 15:6)

1. Samostoyatel'noye konstruktorskoye tekhnologicheskoye byuro "Biofizpribor" i Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.
(BLOOD PRESSURE)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

L'VOV, A.M.; GRINGOF, R.N.; GEYVINA, M.V.

Phonocardiograph FKG-01. Med.prom. 14 no.11:45-50 N '60. (MIRA 13:11)

1. Samostoyatel'noye konstruktorskoye tekhnologicheskoye biuro "Biofizpribor."
(HEART--SOUNDS)
(MEDICAL INSTRUMENTS AND APPARATUS)

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[illegible]

[illegible] the [illegible] of [illegible] hydrometeorological service in [illegible], Trudy Sred.-Az. [illegible], gidrometeor. inst. [illegible] 1/5. [illegible]

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ILLEGIBLE

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGOF, I.G.

Burning of ephemeral plants in the Kyzylkum. Uzb. biol. zhur. 8 no.2:34-37 '64. (MIRA 17:9)

1. Sredneaziatskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

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GRINGOF, I.G.

Dependence of the growth rate of roof bromegrass on meteorological conditions. Trudy Sred.-Az. nauch.-issl. gidrometeor. inst. no.12:43-54 '62. (MIRA 16:5)

(Soviet Central Asia--Bromegrass)
(Crops and climate)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGOF, I.G.; ALIMZHANOV, A.G.

Methods for field estimation of the yield of the sedge Carex physodes M.B. in pastures. Bot. zhur. 47 no.8:1170-1176 Ag '62. (MIRA 15:10)

1. Sredne-Aziatskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut i Institut botaniki AN Uzbekskoy SSR, Tashkent.
(Soviet Central Asia--Sedges)
(Pasture research)

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GRINGOF, I.G.

Characteristics of the growth rate of ephemeral grasses during initial phases. Nauch. trudy Tash GU no.204:62-74 [illegible].
(SIRA 1[illegible]:9)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGERG, Ya.Kh.; MEDVEDEVA, Z.S.; YELISEYEV, A.A.; [illegible]

Preparation of single boron phosphide (BP) crystals from the gaseous phase. Dokl. AN SSSR 160 no.2:337-338 Ja '[illegible]. (MIRA [illegible])

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. Submitted July 7, 1964.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GRINGLAZ, Ya.A., inzh.

Standard for the piston plunger pair of fuel pumps for stationary, marine, and locomotive diesel engines. State Standard 7225-55. Energomashinostroenie 7 no.11 41 N '61. (MIRA 14:11)

(Diesel engines - Fuel systems)
(Pistons - Standards)

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GRINGAUZ, V.A., uchitel' fiziki

"Newton's laws," a new educational film. Fiz. v shkole 22 no.2:45-46 Mr-Ap '62. (MIRA 15:11)

1. 101-ya shkola g. Moskvy.
(Motion pictures in education)
(Physics--Study and teaching)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

IVANOKOVA, F.I., GRINGAUZ, S.T.

Deep ulcerative pyoderma. Sbor.nauch.rab.Bel.nauch.-issl. kozhno-ven.inst. 4:344-346 '54 (MIRA 11:7)
(SKIN--ULCERS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

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KONDRAT'YEV, V.A.; DUBROVINSKIY, V.Ya.; DOBRINSKIAYA, A.K.; ROZENBAUM, P.S.; TAVROV, Ya.M.; BOGDANOVSKIY, V.F.; GRINGAUZ, S., red.; YAKOVLEVA, Ye., tekhn. red.

[Named after Vladimir Il'ich]Imeni Vladimira Il'icha. Moskva, Mosk. rabochii, 1962. 510 p. (MIRA 16:4)
(Moscow--Electric machinery industry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

FRANTSEV, Yu.P., rektor, otv. red.; IVAN'KOVICH, N.F., red.; VLADIMIRTSEV, V.S., red.; STEPANYAN, TS.A., prof., red.; CHANGLI, I.I., starshiy nauchnyy sotr., kand. ekonom. nauk, red.; YESELEV, N.Kh., red.; GUSEV, K.V., red.; BONAREV, N., red.; GRINGAUZ, S., red.; SPITSYNA, A., red.; KUZNETSOVA, A., tekhn. red.

[Standard-bearers of communist labor] Znamenostsy kommunisticheskogo truda. Moskva, Moskovskii rabochii, 1961. 322 p. (MIRA 14:12)

1. Akademiya obshchestvennykh nauk pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza i Chlen-korrespondent AN SSSR (for Frantsev). 2. Zaveduyushchiy sektorom Instituta filosofii AN SSSR (for Stepanyan). 3. Institut filosofii AN SSSR (for Changli).
(Labor and laboring classes)

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SHIMANSKIY, Vsevolod Pavlovich; GRINGAUZ, S., red.; SELYK, M., tekhn. red.

[We build our future today] Budushchee rozhdaetsia segodnia. Moskva, Mosk. rabochii, 1961. 82 p. (MIRA 14:10)
(Moscow--Efficiency, Industrial)
(Communist Party of the Soviet Union--Party work)

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GERMATSKIY, Anatoliy Pavlovich; GRINGAUZ, S., red.; PAVLOVA, S., tekhn. red.

[Conserve labor and time] Berech' trud i vremia. Moskva, Mosk. rabochii, 1960. 39 p. (MIRA 15:1)

1. Glavnyy inzhener Moskovskogo tresta ovoshche-kartofelevodcheskikh sovkhozov (for Germatskiy).
(Moscow Province--Agriculture)

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VEKSLER, Yuliya Filippovna, kand.ekon.nauk; NIKIFOROV, Mikhail Artem'yevich, kand.ekon.nauk; GRINGAUZ, S., red.; PAVLOVA, S., tekhn.red.

[What the profitable operation of collective farms depends on] Ot chego zavisit dokhodnost' kolkhoza. Moskva, Mosk.rabochii, 1961. 44 p. (MIRA 14:6)
(Collective farms—Costs)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

GLADKOV, Kirill Aleksandrovich; BABAT, G.I., prof., doktor tekhn.nauk, nauchnyy red.; GRINGAUZ, S., red.; YAKOVLEVA, Ye., tekhn.red.

[What is electronics?] Chto takoe radio-elektronika. Moskva, Mosk.rabochii, 1960. 355 p. (MIRA 13:5)
(Electronics)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

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BUBLEYNIKOV, Feofan Dmitriyevich; GRINGAUZ, S., red.; YAKOVLEVA, Ye., tekhn.red.

[How man has subdued nature] Kak chelovek pokorial prirodu. Moskva, Mosk.rabochii, 1960. 170 p.

(MIRA 13:12)

(Industrial arts--History)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

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REMIZOV, Konstantin Sergeyevich, kand.ekonom.nauk; LEONT'YEV, L.A., red.; GRINGAUZ, S., red.; YAKOVLEVA, Ye., tekhn.red.

[Organization of wages in the U.S.S.R.] Organizatsiia oplaty truda rabochikh v SSSR. Pod obshchei red. L.A.Leont'eva. Moskva, Mosk. rabochii, 1960. 46 p. (MIRA 13:8)

1. Chlen-korrespondent Akademii nauk SSSR (for Leont'yev).
(Wages)

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GRINGAUZ, S., red.; YAKOVLEVA, Ye., tekhn.red.

[Outlook for the expansion of industry, construction, and municipal economy of Moscow in 1959-1965] O perspektivakh razvitiia promyshlennosti stroitel'stva i gorodskogo khozaistva Moskvy v 1959-1965 gg. Moskva, Moskovskii rabochii, 1959. 47 p. (MIRA 12:8)

(Moscow--Economic conditions)

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GRIEGAUZ, R. I.

[illegible], [illegible] Inzhener i ZA[illegible], [illegible] Inzh., [illegible], [illegible],
GRIEGAUZ, R. I. Inzh., [illegible], [illegible] Inzh.

Nauchno-issledovatel'skiy institut po stroitel'stvu Ministerstva neftyanoy promyshlennosti

RAZRABOTKA I VNEDRENIE PROMYSHLENNOY TEKHNOLOGII POL[illegible] [illegible]-
[illegible] BEZOBZHIGOVYKH DINATE[illegible] MATERIALOV [illegible]

SO: Collections of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

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GRINGAUZ, R. I.

ZATSEPIN, K. S., Inzhener i GRINGAUZ, R. I., Inzhener
Nauchno-issledovatel'skiy institut po stroitel'stvu Ministerstva neftyanoy
promyshlennosti

IZUCHENIYE LENINGRADSKIKH I URAL'SKIKH DIATOMITOV

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SO: Collection of Annotations of Scientific Research Work on Construction,
completed in 1950,
Moscow, 1951

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PROKOPCHUK, A.Ya.; FILIPCHIK, V.I.; YEREMENKO, S.A.; GRINGAUZ, M.Ya.

Problem of the permeability and protection of the skin. Dokl. AN BSSR 8 no.10:680-681 O '64. (MIRA 18:3)

1. Institut fiziologii AN BSSR.

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PROKOPCHUK, A.Ya. [Prakapchuk, A.IA.]; SOSNOVSKIY, A.T. [Sasnouski, A.T.]; GRINGAUZ, M.Ya.; POPOVICH, A.D. [Papovich, A.D.]; SOSNOVSKIY, G.A. [Sasnouski, H.A.]; SMOL'SKIY, P.F. [Smol'ski, P.F.]

Radioactive cerium (Ce^{144}), cesium (Cs^{137}), promethium (Pm^{147}) and their therapeutic effect. Vestsi AN BSSR. Ser. biial. nav. no.4:84-90 '62. (MIRA 17:8)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

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GRINGAUZ, M.Ya.; KUNTSEVICH, M.A.

Study of the permeability of the skin by means of radioactive isotopes. Report No.2. Sbor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 6:91-101 '59. (MIRA 13:11)

(SKIN)
(ISOTOPES--PHYSIOLOGICAL EFFECT)

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GRINGAUZ, M.Ya.; KUNTSEVICH, M.A.

Study of the permeability of the skin by means of radioactive isotopes Report no.1. Sbor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 6:38-47 '59. (MIRA 13:11)

(SKIN)
(ISOTOPES--PHYSIOLOGICAL EFFECT)

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CHERNYAK, E.N.; GORBULEV, S.S.; GRINGAUZ, M.Ya.

Prophylaxis of congenital syphilis. Zdrav.Belor. 5 no.6:50-51 Je '59. (MIRA 12:9)

1. Iz belorusskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (direktor - akademik AN BSSR A.Ya.Prokopchuk).
(SYPHILIS, CONGENITAL, HEREDITARY, AND INFANTILE)

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GRINGAUZ, M.Ya.

A case of sarcoid. Sbor.nauch.rab.Bel.nauch.-issl.kozno-ven.inst. 4:347-350 '54 (MIRA 11:7)
(SKIN--TUMORS)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

KARPOVICH, Ye.A., GRINGAUZ, M.Ya.

Eradication of dermatomycosis in Postavy District, Molodechno Province. Sbor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst. 4:320-323 '54 (MIRA 11:7)

(POSTAVY DISTRICT--DERMATOMYCOSIS)

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DYLO, P.V., CHERNYAK, E.N., BASHMAKOVA, S.M., ROMANOVSKAYA, N.Yu., KLADNITSKAYA, T.L., GRINGAUZ, M.Ya.

Some causes for the unsatisfactory decline in the incidence of gonorrhea and ways in which they may be eliminated. Sbor.nauch. rab.Bel.nauch.-issl.kozhno-ven. inst. 4:309-314 '54 (MIRA 11:7)
(GONORRHEA)

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USSR/Glass Industry Mar 1947
Medicine - Apparatus

"The Industrial Production of Medical Glass in 1947," M. Kh. Gringauz, 4 pp

"Farmatsiya" No 3

Chiefly concerned with production figures and relative output of various plants.

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GRINGAUZ, M. A.

Cand Tech Sci - (diss) "Study of friction variators. Use of variators in mine machines." Moscow, 1961. 14 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst imeni I. V. Stalin); 200 copies; free; (KL, 5-61 sup, 188)

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GRINGAUZ, M.A.

Contact of a toroidal-spherical transmission during the displacement of the center of the curvature of a roller. Sbor. nauch.trud IEI no.8:67-75 '58. (MIRA 13:4)
(Gearing)

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GRINGAUZ, M.A.

25(2) PHASE I BOOK EXPLOITATION SOV/2223

Konferentsiya po voprosam rascheta, konstruirovaniya i issledovaniy zubchatykh peredach i peredach gibkoy svyaz'yu. Odessa, 1957

Raschet, konstruirovaniye i issledovaniye peredach; trudy konferentsii, [tom] 2 (Design, Construction, and Analysis of Transmissions; Transactions of a Conference on Problems in Design, Construction, and Analysis of Gears and Flexible Transmissions, Vol 2) [Odessa] Odesskiy politekhn. in-t, 1958. 94 p. 3,000 copies printed.

Sponsoring Agencies: Odesskiy politekhnicheskiy institut, and Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Odesskoye oblastnoye pravleniye.

Ed.: I.P. Nikiforov, Engineer; Tech. Ed.: A.R. Komissarenko; Editorial Board: L.S. Borovich, Candidate of Technical Sciences, M.S. Belyayev, Engineer, M.D. Genkin, Candidate of Technical Sciences, K.I. Zablonskiy, Candidate of Technical Sciences (Resp. Ed.), F.S. Zak, Candidate of Technical Sciences, Ya. G. Kist'yan, Candidate of Technical Sciences, V.M. Kudryavtsev, Doctor of Technical Sciences, V.F. Mal'tsev, Candidate of Technical Sciences, M.S. Polotskiy, Candidate of Technical Sciences, and L.B. Erlikh, Candidate of Technical Sciences.

PURPOSE: The book is intended for engineers and technicians working in the field of transmissions.

COVERAGE: This second volume contains articles on variable-speed drives, flexible shafts, wire-rope v-drive, hook-joint and roller chains, and friction gears. Theoretical and design problems are presented in the first volume. No personalities are mentioned. References follow several of the articles.

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Kogan-Vol'man, G.I. Problems of Terminology, Classification, and Standardization in the Field of Flexible Wire-shaft Drives 21
The author points out the necessity for standardization of flexible shafts and parts and recommends standardization similar to the existing German system.

Gofman, A.I. Investigation of a Gear-Chain Type Variable-speed Drive [Self-pitching chain between two conical tooth wheels] 35
The author analyzes the basic factors affecting the functioning of this type of drive. Tests on the headstocks of two lathes equipped with such drives are described. Conclusions and recommendations concerning the construction, design, and operation are presented.

Gringauz, M.A. Effect of Errors in Fabrication on Performance of Friction Drives 89
The author discusses inaccuracies in the manufacture of friction which affect initial surface contact, cause nonuniformity in the operation of intermediate elements, and add to dynamic loading.

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GRINGAUZ, L.D.

Linemen are working as true Communists should. Vest. sviazi 20 no.9: 28-29 S'60. (MIRA 13:10)

1. Starshiy inzhener L'vovskogo lineyno-tekhnicheskogo uzla.
(Telecommunication--Employees)

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GRINGAUZ, L.

Scientific and technical conference held in Lvov. Radiotekhnika 16 no.10:80 O '61. (MIRA 14:10)
(Electronics--Congresses)

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GRINGAUZ, L.D.

Experience achieved in planning an expansion of radio and telephone facilities provided to virgin land areas. Vest.sviazi 15 no.11:20-21 N'55. (MLRA 9:2)

1. Starshiy inzhener L'vovskoy direktsii radiotranslyatsionnoy seti. (Telephone) (Radio)

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authors intend to obtain a more accurate evaluation of these side effects and of their influence on the validity of trap readings. Presented by Academician A. L. Mints on 23 June 1966. Orig. art. has: 3 figures. [FSB: v.2, no.12]

SUB CODE: 03,20,22 / SUBM DATE: 14Jul66 / ORIG REF: 003 / OTH REF: 006

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high current levels were evidently caused by photoelectrons from the satellite surface elements, since the levels dropped sharply when the satellite entered lunar night. As with the ion readings, the average electron flux was greater in free space (7.2×10^{-10} amp) than in the magnetosphere (4.8×10^{-10} amp). The corresponding densities, assuming energies on the order of 1 ev, were calculated at $80/cm^3$ and $60/cm^3$ respectively, and $15-20/cm^3$ on the lunar night side. Whereas the electron trap readings may have been erroneously increased by photoelectrons, they may also have been decreased due to interception of low-energy electrons by trap elements; laboratory tests have shown that diversion of the latter type at the 1-ev level can reduce true readings by a factor of 3 or 4. The

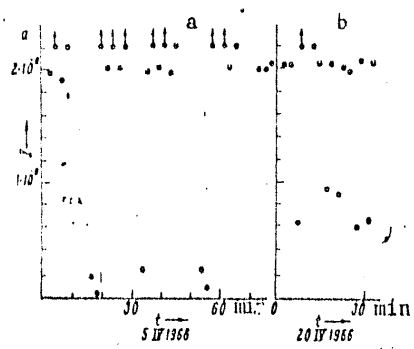

Fig. 3. Electron current

A - Within the magnetosphere;
B - outside the magnetosphere.

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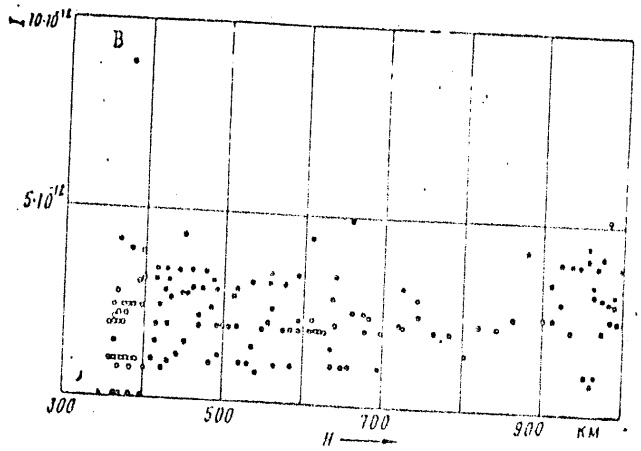

Fig. 2. Ion current

A – Moon outside magnetosphere;
B – Moon within magnetosphere.

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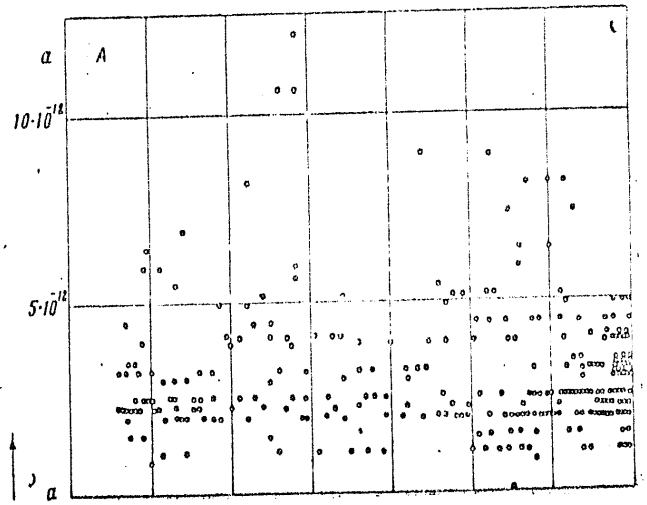

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Data from the ion trap have provided some idea of ion distribution in the vicinity of the Moon, but do not yield a breakdown between thermal and possibly higher energy ions. Calculated ion currents from some 450 readings are shown as a function of altitude in Fig. 2, for the general cases where the Moon was 1) within and 2) outside of the Earth's magnetosphere. A perceptible drop in ion current is seen when the Moon and its satellite entered the magnetosphere — on the average, from 3.1×10^{-12} amp to 2.3×10^{-12} amp. It also appears that there is no strong correlation of ion density with lunar altitude, nor with change in bias of the trap's external grid. If it is assumed that the ions encountered were thermal, i.e., that the satellite's orbital velocity greatly exceeded ion thermal velocities, then the calculations show a maximum ion density near the Moon of about $100/cm^3$. However, a varying component of ion flux was noted which could be correlated with solar wind flux; this fact, plus the nondependence of measured flux on altitude or grid biasing, suggest that at least part of the recorded ions were at energies well above thermal, in which case the ion density estimate would have to be revised downward.

The satellite's electron count, both in free space and in the magnetosphere, showed discrete high and low levels (Fig. 3). The

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wave gating. The ion trap had twin orthogonal elements and a common collector, as seen in Fig. 1(a); input flux was grid-modulated by a square biasing wave, -3 to +7 v. Output was detected by an amplifier tuned to this modulation frequency [unspecified]. To further overcome spurious local charge effects, the outermost grid was also modulated at 2-minute intervals by a square wave between 0 and -50 v. The electron trap outer grid was similarly modulated, but between 0 and +50 v. Interrogation of the traps was performed at 2-minute intervals. It was pointed out that rotation or tumbling of the satellite, with a period of about 40 seconds, caused "irregularity" in the measurements; this point was not elaborated on.

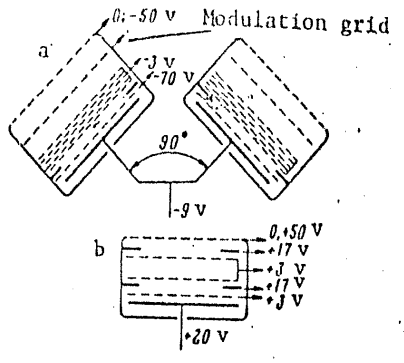

Fig. 1. Ion trap (a) and electron trap (b)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

ACC NR: AP6034570 SOURCE CODE: UR/0020/66/170/006/1306/1309

AUTHOR: Gringauz, K. I.; Bezrukikh, V. V.; Khokhlov, M. Z.; Zastenker, G. N.; Remizov, A. P.; Musatov, L. S.
ORG: none

TITLE: Experimental results from observations of the lunar ionosphere performed by the first artificial lunar satellite

SOURCE: AN SSSR. Doklady, v. 170, no. 6, 1966, 1306-1309
TOPIC TAGS: lunar atmosphere, ionosphere, ion trap, electron trapping, electron flux, lunar satellite / Luna-10 lunar satellite

ABSTRACT:
In an accompanying review article on the Luna-10*, a brief description is given of the two low-energy ion and electron traps that were carried by the satellite. K. I. Gringauz et al have subsequently published a preliminary analysis of the data from these traps, and have made some tentative deductions concerning the nature of the lunar ionosphere.

One difficulty in the trap measurements has been the generally low concentration of charged particles in the lunar ionosphere. Another is the uncertainty as to what effect the unknown surface charge status of the satellite might have on the registered particle levels. It was to counter the latter effect that traps for both thermal ions and thermal electrons were installed, each with a form of square-

Card 1/7 UDC: 537.591

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ACC NR: AP7007593

of the tail of the magnetosphere has been experimentally demonstrated increased from about 200,000 km (according to the data of IMP-1) to about 300,000 km. Measurement of the fluxes of positive ions with $E_p > 50$ ev in most contacts made when the moon was known to be situated outside the tail of the earth's magnetosphere reveals that the magnitude of these fluxes in the lunar satellite orbit differs little from the typical magnitude of the fluxes of protons of the unperturbed solar wind $\sim 1\text{-}5 \cdot 10^9 cm^{-2} \cdot sec^{-1}$. The instruments used did not make it possible to determine the energy spectrum of these fluxes. The simultaneous recording of positive currents of the almost diametrically opposite placed traps indicates that near the moon there is a perturbed region of solar plasma in which there are ion fluxes of comparable magnitude moving in different directions. The maximum possible concentration of charged particles in the lunar ionosphere was found to be 100-300 cm^{-3}.

Orig. art. has: 10 figures. [JPRS: 39,710]

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000616900034-6

ACC NR: AP7007598 SOURCE CODE: UR/0295/66/004/006/0851/0870

AUTHOR: Gringauz, K. I.; Bezrukikh, V. V.; Makalov, G. N.
ORG: none

TITLE: Results of experiments for the study of plasma in circum-lunar space using charged particle traps on the first artificial lunar satellite

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 6, 1966, 851-870
TOPIC TAGS: lunar satellite, artificial satellite orbit / Luna-10 lunar satellite
SUB CODE: 22,03,20

ABSTRACT:

Information is given on the plasma in the tail of the earth's magnetosphere at great distances from the earth and on the plasma in circumlunar space. The instruments used aboard "Luna-10" for obtaining these data are described (four charged particle traps were used). Much of the text is an analysis of the character of change of the collector currents of the traps at the time the moon passed through the tail of the earth's magnetosphere. Measurement data are used in estimating the upper limit of the possible concentration of thermal charged particles in the lunar ionosphere. The measurements indicate that between 5 and 8 April 1966 the satellite emerged from the tail of the earth's magnetosphere and then (with the approach of the May full moon) between 28 April and 2 May again entered the tail of the magnetosphere and between 5 and 7 May emerged from it. If this was the case the distance from the earth in the antisolar direction in which the existence

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ACC NR: AP6018922

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of the ionosphere. In addition, the unreliability of the results of Al'pert et al. is caused also by an inaccurate method used during the processing of experimental data. [Publishing Editor's note: no further articles concerning this discussion will be published.] Orig. art. has: 9 formulas and 4 tables.

SUB CODE: 08/ SUBM DATE: 27Oct65/ ORIG REF: 023/ OTH REF: 015

Card 2/2

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L 04445-67 EWT(1)/FCC GW

ACC NR: AP6018922 SOURCE CODE: UR/0203/66/006/003/0568/0580

AUTHOR: Gringauz, K. I.; Kravtsov, Yu. A.; Rudakov, V. A.; Rytov, S. M.

ORG: Radioengineering Institute, AN SSSR (Radiotekhnicheskiy institut AN SSSR)

63
B

TITLE: Once more about the feasibility of local electron concentration determination by the dispersion method using artificial Earth satellites and about the new ionization maxima in the ionosphere

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 568-580

TOPIC TAGS: ionospheric electron density, ionospheric physics, ionospheric disturbance, ionospheric radio wave, satellite data analysis, geophysic rocket

ABSTRACT: This is the continuation of an earlier debate between the present authors and Ya. L. Al'pert et al. (see, e.g., Geomagn. i aeronomiya, 1 1965, 5, No 4, 766) concerning the feasibility of local electron concentration determination by the dispersion method using artificial Earth's satellites. The authors show once more that the electron concentration determination using such a method leads to inaccurate results because of the presence within the ionosphere of horizontal ionization gradients as well as because of the nonstationary character

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ACC NR: AP6032856

above criterion is valid for defining the magnetosphere boundary, then the Luna-10 data indicate that the magnetosphere tail extends at least 380,000 km from the Earth. Orig. art. has: 4 figures.

SUB CODE: 03/ SUBM DATE: 11May66/ ORIG REF: 001/ OTH REF: 002/ ATD PRESS: 5099

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L 03977-67 ESS-2/EWT(1)/FCC TT/GW

ACC NR: AP6032856 SOURCE CODE: UR/0020/66/170/003/0570/0573

AUTHOR: Gringauz, K. I.; Bezrukikh, V. V.; Khokhlov, M. Z.; Musatov, L. S.; Remizov, A. P.

ORG: none

TITLE: Indications that the moon traverses the Earth's magnetosphere tail, according to data from charged-particle traps placed on the first artificial lunar satellite

SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 570-573

TOPIC TAGS: magnetosphere, lunar orbit, lunar satellite, EARTH MAGNETIC FIELD

ABSTRACT: Luna-10 carried two flat four-electrode charged-particle traps which monitored the flux intensity of electrons with energies exceeding 70 ev and positive ions with energies greater than a quantity determined by the second grid voltage, which was varied from 0 to +50 v once every two minutes. During the measurement sessions, the trajectory of the moon and its artificial satellite was such that it crossed the boundaries (as proposed by N. F. Ness) of the Earth's magnetosphere. During this time the measured difference of electron ($E < e > 70$ ev) and positive ion ($E_p > 50$ ev) flux was negative inside and positive outside the assumed boundary of the magnetosphere. Solar activity was normal during these measurements. If the

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L 22189-66

ACC NR: AP6002857

the change in the formulation of discovery. On the basis of the decision of the Committee for the Affairs of Inventions and Discoveries at the Council of Ministers, SSSR, the new text is published. No. 27 (Application No. OT-2821 of 16 February 1963)

SUB CODE: 04/ SUBM DATE: 16Feb63

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L 22189-66 EPF(n)-2/EWA(h)/EWT(1)/ETC(f)/EWG(m)/FCC IJP(c) AT/GW

ACC NR: AP6002857 SOURCE CODE: UR/0286/65/000/024/0006/0006

AUTHOR: Gringauz, K. I.; Bezrukikh, V. V.; Ozerov, V. D.; Rybchinskiy, R. Ye.

ORG: none

67
B

TITLE: /Plasma layer near the Earth/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 6

TOPIC TAGS: charged particle, plasma sheath, plasma density, plasma charged particle, upper atmospheric radiation

ABSTRACT: This Author Certificate announces the establishment of the existence (at heights of approximately from 2000-20,000 kilometers above the surface of the earth) of a previously unknown region of the earth's plasma sheath. This sheath has an increased concentration of charged particles (in respect to the interplanetary gas) which decreases with height. The magnitude of the negative gradients of the charged particle concentrations in the upper part of this region consists of some hundreds of particles in 1 cm^3/1000 km of height. The concentration near the upper boundary of the region does not exceed 10^2 particles/cm^3. /Announcement of

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ACCESSION NR: AT5009978

invisible for cosmic ray counters; and 2) the electron currents in the outer radiation belt are weaker than currents capable of producing the threshold current of the traps. Consequently, the outer radiation belt remains invisible to the traps. Future experiments should aim at establishing the energy spectrum of electrons in the outermost (third) belt. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: AA, SV

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L 52770-65 FSS-2/EWT(1)/FS(v)-3/EWG(s)-2/EWG(v)/FCC/EWA(d)/EEC-4/
EEC(t)/EWA(h) Pb-4/Pd-1/Pe-5/Pq-4/Pac-4/Pae-2/Peb/Pi-4 TT/GW-2

ACCESSION NR: AT5009978 UR/3010/65/000/014/0110/0115

67
B+1

AUTHOR: Gringauz, K. I.

TITLE: Ionosphere and plasma in space surrounding the Earth according to data from Soviet rocket studies

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Geofizicheskiy byulleten', no. 14, 1965, 110-115

TOPIC TAGS: radiation belt, cosmic radiation measurement, outer space plasma, cosmic rocket radiation probe, ionosphere, electron current

ABSTRACT: Reviewing, in historical order, the published results of rocket probes of the space around the Earth and the variations in the understanding of the radiation belts, the author covers the method, equipment, and data of the US two-stage rocket (1957), the first Soviet geophysical rocket (1958), the third Soviet artificial satellite (1958), three Soviet lunar rockets (1959), Explorer VIII (1960), Explorer X (1961), Cosmos 2 (1962), and the Soviet interplanetary rocket Mars 1. The analysis of these data indicates that: 1) negative currents are created by electrons whose energies are above 200 eV but below the minimum energies needed for registration by the cosmic ray counters mounted on various rockets; consequently, the electron current zones near the geomagnetic equator discovered by traps remain

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form of an Archimedes spiral with a magnitude 2×10^{-5} oersteds. This estimate was based on a dynamic model which was constructed to explain comet tails. This model gave a concentration of 10^3 electrons per cc. Since 1959 several measurements with high altitude satellites and space probes have substantiated Parker's hypothesis. These include Luna-2 and 3 of the SSSR (1959), Venera-1 (1961) SSSR, Explorer-10 (1961 USA), and Mariner-2 (1962 USA). Data from these probes give interplanetary ion flow rates of about 3×10^8 cm^{-2} sec^{-1} and a magnetic field strength of 10^{-5} oersted. Preliminary data from Explorer-18 support the original magnetic field vector orientation postulated by Parker. In general, these space probe measurements support Parker's theory, but the plasma concentration in interplanetary space has been shown to be two orders of magnitude less than previously supposed. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: ES, GP

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L 54835-65 EWT(1)/FS(s)/FSS-2/EPF(n)-2/EWG(v)/EWG(m)/FCC/EWA(d)/EPA(w)-2/EEC(t)/EWA(h) Pz-6/Po-4/Pd-1/Pab-10/Pe-5/Pq-4/Pac-4/Pae-2/Peb/Pi-4 IJP(c) TT/WW/AT/GW

ACCESSION NR: AP5014800 UR/0030/65/000/005/0060/0066
533.9...1

AUTHOR: Gringauz, K. I. (Doctor of technical sciences)

99
96
B

TITLE: Near-terrestrial and interplanetary plasma

21

SOURCE: AN SSSR. Vestnik, no. 5, 1965, 60-66

TOPIC TAGS: plasma, solar wind, magnetic field, solar magnetic field, charged particle, lunar probe, interplanetary plasma

ABSTRACT: The presence of plasmas in the earth's vicinity as well as in interplanetary space is discussed by reviewing various theories and experimental data acquired since 1959 when the first Russian lunar probe was successfully launched. Various estimates of interplanetary plasmas prior to space probes were made from polarization of solar light, interactions with comet tails, cosmic ray variations, etc. Chapman of England postulated the existence of charged particles in interplanetary space as part of the solar corona in 1957 and U. Parker of the USA introduced the concept of the solar wind which consists of plasmas emitted from the sun and moving into the planetary space at approximately radial directions affected slightly by the magnetic field in the interplanetary space, estimated to be in the

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L 01805-66

ACCESSION NR: AP5020829

of direct determination of positive-ion flow gave better results than the electrostatic analyzer on Mariner-2. Orig. art. has: 2 figures. [TS]

ASSOCIATION: Radiotekhnicheskiy institut Akademii nauk SSSR (Radio Engineering Institute, Academy of Sciences, SSSR)

SUBMITTED: 29Apr65 ENCL: 00 SUB CODE: AA, SV

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L 01805-66

ACCESSION NR: AP5020829

and a rectangular a-c voltage of 450 v with a modulating frequency of 1000 cps. Electron emission from the collector was supressed by a grid with a 70-v potential with respect to the body of the satellite. An alternating component of the collector current, proportional to the magnitude of the positive-ion flow, was recorded by a resonance amplifier adjusted to the modulation frequency. The instrument was capable of sensing positive ion flow within the range of 10^7 to 2.5×10^9 $cm^{-2}sec^{-1}$. Recording of positive-ion flow of $E > 70$ ev was aided by a d-c amplifier in the trap circuit. During the flight of Zond-2, the modulation trap was directed toward the Sun. When a deviation occurred, a correction was automatically made in the readings based on a study of the angular characteristics of the trap in the laboratory. On 7 Dec 1964, solar plasma flow was recorded at 1.5×10^9 $cm^{-2}sec^{-1}$, coinciding with the geomagnetic storm which occurred on the same date. This value was reached only during strong magnetic storms and tended to confirm the correlation between the K_p index and solar plasma flow. The use of particle traps capable

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L 01805-66 EWT(d)/FSS-2/EWT(1)/EEC(k)-2/FCC/EEC-4/EWA(h) TT/AS/GW

ACCESSION NR: AP5020829 UR/0020/65/163/004/0873/0876

AUTHOR: Bezrukikh, V. V.; Gringauz, K. I.; Musatov, L. S.; Rybchinskiy, R. Ye.; Khokhlov, M. Z.

TITLE: Study of solar plasma flow by the Zond-2 interplanetary station

SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 873-876

TOPIC TAGS: solar radiation, plasma measurement, plasma flow, ion trap, particle detector/Zond 2

ABSTRACT: An investigation of solar plasma flow was made to confirm the hypothesis that a correlation exists between the rate of solar plasma flow and the Kp index characterizing geomagnetic disturbances. Solar plasma flow was measured by Zond-2, equipped with modulation and integral particle traps. The latter were modified to measure electron and positive ion flux with energies in excess of 70 ev and 50 ev, respectively. The modulation trap, similar to the one used on Explorer-10, had a modulating grid supplied by two voltages: a d-c voltage assuming consecutively 8 values between 230 and 3200 v,

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L 00560-66

ACCESSION NR: AP5021006 ENCLOSURE: 01

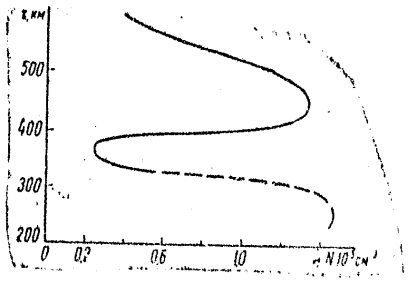

Fig. 1.

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A detailed analysis is made to show that the terms $[\partial N/\partial y]_{y_0}$, $[\partial N/\partial x](t_0 + z_0/\cos\varphi_0)$ $\int_0^{z_0}(\partial N/\partial t)\,dS$ are not necessarily small in comparison to $N_0 z_0/\cos\varphi_0$. A similar statement, with even more assurance, can be made about the unsteady term $\int_0^{z_0}(\partial N/\partial t)\,dz$.

To demonstrate this, an altitude versus density curve (see Fig. 1 on the Enclosure) is shown. Here the maximum in N is above the maximum region of the F-layer if one bases the data on the local dispersion method, neglecting the gradient terms (solid curve in Fig. 1). Radio-probe methods, on the other hand, support only the lower curve (dotted curve on Fig. 1). For this reason and because dispersion measurements far from the earth are unreliable, the authors do not agree with the local concentration data reported by previous authors (e.g., Ya. L. Al'pert. Geomagn. i aeronomiya, 1964, 4, No. 3, 479). Orig. art. has: 4 formulas and 2 figures.

ASSOCIATION: Radiotekhnicheskiy institut, AN SSSR (Radio Technology Institute, AN SSSR)

SUBMITTED: 01Feb65 ENCL: 01 SUB CODE: GP, ES

NO REF SOV: 013 OTHER: 011

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