

The wave properties of ions ...

S/139/62/000/002/026/028  
E032/E514

results. As a result of electrolysis, the cathode receives copper atoms which produce the diffraction pattern on its surface. Immediately after the electrolysis process the cathode was removed from the bath and showed a typical Fresnel diffraction pattern. The pattern must be photographed immediately after the removal of the electrode while the surface is still wet. In order to preserve the diffraction pattern, the cathode was placed into an oil bath (e.g. castor oil). It is reported that the results obtained are in full agreement with the de Broglie formula

$$\lambda = \frac{h}{mv}$$

There are 2 figures.

ASSOCIATION: Odesskoye vyssheye  
obshchevoyskovoye  
komandnoye uchilishche  
(Higher All Services  
School for Officers,  
Odessa)

SUBMITTED: July 30, 1960 (initially)  
Card # 22 August 2, 1961 (after revision)

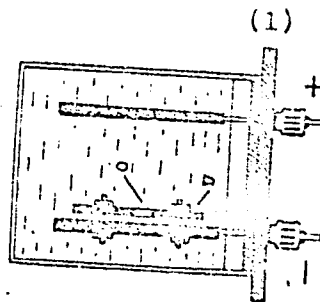


Fig.1

KUZ'MENKO, G.I.; SEMENOV, V.V.

Demonstrations and laboratory studies in nuclear physics. Izv. vys.  
ucheb. zav.; fiz. no.5:58-60 '63. (MIRA 16:12)

1. Odesskoye Krasnoznamennoye vyssheye obshchevoyskovoye komand-  
noye uchilishche.

ACCESSION NR: AT4016596

S/2556/63/000/034/0008/0013

AUTHOR: Kuz'menko, G. I.

TITLE: Calendar stability of the 27-day geophysical cycle

SOURCE: Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. Byulleten', no. 34, 1963, 8-13

TOPIC TAGS: geophysics, meteorology, geophysical prediction, geophysical cycle, air temperature, weather forecasting

ABSTRACT: Attempts to use the cyclic character of geophysical phenomena for forecasts have failed in the past, but a successful method has been developed to exploit this pattern. Long-term weather observations and forecasts and an analysis of the 11-year cycle at Odessa reveal that the 27-day cycle is reasonably stable and can be used to a certain extent in weather forecasting. The forecast illustrated is limited to a qualitative prediction of whether days following particular days will be warmer or cooler. The initial step was to tabulate the actual temperatures at a fixed time of day (mean daily values can be used) for 2 to 4 27-day cycles. It was found that three-day periods of cooling and warming alternate. In Fig. 1 of Enclosure the days are arranged in

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ACCESSION NR: AT4016596

27-day groups, one day per block. Three-day (and two-day) periods of cooling are denoted by dots; more well-expressed cooling is indicated by squares. Obviously, for the established days of cooling and heating the algebraic sum of temperatures of the "cold" days is less than this sum for "warm" days, that is, for each cycle

$$\sum_{x=1}^s \sum_{n=1}^k T_x < \sum_{y=1}^s \sum_{n=1}^k T_y \quad (1)$$

Where  $T_x$  is the temperature on "cold" days,  $T_y$  is the temperature on "warm" days,  $x$  is the index of summing from 1 to 6 (since there are six columns of cold days),  $n$  is the index of summing from unity to  $k$ , where  $k = 1, 2, 3$  is the number of days in the column, and  $y$  is the index of summing of the "warm" columns (5). One "cold" column is discarded so that there will be 13 days in both the "cold" and "warm" columns. Prolonged observation of the 27-day cycles revealed that such three-day (two-day) coolings and warmings regularly alternate, so relation (1) is satisfied in subsequent 27-day cycles. The cooling and warming columns therefore are stable and it is possible to calculate which groups of days in the future will be in the "cooling" column and which will be in the "warming" column. An example of application of the method is given. With increasing time from the initial forecast the quality of the forecast deteriorates — "cooling" columns sometimes become "warming" columns. For the most part the stability of the

Gerd 11/3

ACCESSION NR: AT4016596

27-day cycle is maintained. The stability coefficient is

$$K = \frac{7}{11} = 64\%$$

for the 11-year cycle. The columns therefore need to be compiled every two or three years, preferably every year. Various aspects of the method are discussed in detail. Orig. art. has: 2 formulas, 2 figures and 2 tables.

ASSOCIATION: Odesskoye otdeleniye VAGO (Odessa Division, VAGO)

SUBMITTED: 00Jun61

DATE ACQ: 24Feb64

ENCL: 01

SUB CODE: AS

NO REF SOV: 004

OTHER: 001

Card 3/43

KUM'BERG, G.I.

The nuclear photoelectric effect in the laboratory. Izv. vyzh.  
ucheb. zav.; fiz. 8 no.3:145-146 '65. (MIRA 18:9)

1. Odesskaya vysshaya obshchevyuskovaya Leningradskaia uchil'nitsa.

KUZ'MENKO, G.I.

Heavy particle accelerators for laboratory and demonstration purposes. Izv. vys. ucheb. zav.; fiz. 8 no.4:174-175 '65.  
(MIRA 18:12)

1. Odesskoye vyssheye obshchevoyskovoye komandnoye uchilishche.  
Submitted December 7, 1964.

KUZ'MENKO, G.I.

The MDU-3 universal thrashing and crushing machine. Biul.tekh.-  
ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. 16 no.11:  
72-73 '63. (MIRA 16:11)



MUZ'EMKO, G. H.

24270

MUZ'EMKO, G. H. O cheredovanii v rabote podkalyustnykh i okolousnykh zhelez sobaki. Uchen. zapiski (Leningr. Gos. Ped. In-T im. Gertsena). T. LXXVIII, 1949, S. 111-14.

SO: Letopis, No. 32, 1949.

KUZ'NEKOV, G. N.

24269 KUZ'NEKOV, G. N. Vliyaniye razdrazheniya vistseroretseptorov, atsetilkholina, atropina i adrenalina na sechenovskoye tormozheniye. Uchen. zapiski (Leningr. Gos. Ped. In-T im. Gertsena), T. LXXVIII, 1949, S. 115-28.

SO: Letopis, No. 32, 1949.

BUKHOVETS, G.I.; KUZ'MENKO, G.N.; NIKITINA, A.M.; ROKOTOVA, N.A.

Determining the type of the higher nervous system in man. Uch.zap.  
Ped.inst.Gerts. 1083-11. '55. (MLRA 10:3)  
(TEMPERAMENT)

KUZ'MENKO, G.N.

Mobility of nervous processes in six-and seven-year-old children  
following food and speech reinforcement. Uch.sap.Ped.inst.Gerts.  
108:13-25 '55. (MLRA 10:3)

(CONDITIONED RESPONSE)

KUZ'MENKO, G.N.

Extinction of conditioned reflexes in preschool children. Uch.zap.  
Ped.inst. Gerts. 113:23-36 '55. (MLRA 10:3)  
(CONDITIONED RESPONSE)

USSR / Human and Animal Physiology. Nervous System. T  
Higher Nervous Activity. Behavior.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102256.

Author : Kuz'menko, G. N.

Inst : ~~Leningrad State Ped.~~ Institute imeni A. I. Gertsen.

Title : The Study of Conditioned Motor Reflexes in Man.

Orig Pub: Uch. Zap. Leningr. gos. ped. in-t im. A. I. Gert-  
sena, 1957, 140, 66-67.

Abstract: In 18 6-7-year-old children, 3 conditioned motor reflexes (CR) were developed to various sound stimuli with nutritional reinforcement. In extinction of CR, strong excitement appeared, which was replaced by the inhibition of, first, spatially-proximal and then of the more remote cortical stations. The functional connection of the movements of head and hands turned out to be the tightest.

Card 1/2

90

L 46934-66 EWT(m)/EWT(1)/T/EWP(t)/ETI IJP(c) JD/GG

ACC NR: AP6015496 (N) SOURCE CODE: UR/0181/66/008/005/1623/1625

AUTHOR: Ptashchenko, A. A.; Serdyuk, V. V.; Kuz'menko, I. A.

ORG: Odessa State University im. I. I. Mechnikov (Odesskiy gosudarstvennyy universitet)

TITLE: Infrared quenching of extrinsic photoconductivity in CdS

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1623-1625

TOPIC TAGS: cadmium sulfide, photoconductivity, IR photoconductor, capture cross section, impurity center

ABSTRACT: The kinetics of infrared (IR) quenching of the extrinsic photoconductivity from the  $\lambda=600-900$  nm range were investigated by analyzing the relationships between the photocurrent and the light intensity at different short IR exposures. The obtained characteristics indicate that the families of the lux-ampere relationships at various IR exposures for intrinsic and extrinsic photocurrents coincide precisely, until there is a shift along the axis of intensities. This shift is caused by the difference between the CdS absorption coefficients in these two bands of the spectrum. The coincidence indicates that electron concentrations in the conductivity zone and in the r-centers and in the s-centers are not affected by the mode of the generation of the photocurrent, i. e., whether or not the photocurrent is generated by light which results in band-band electron transitions, or whether the transitions take place from impurity

Card 1/2

T. 46934-66

ACC NR: AP6015496

centers. This can happen only if the transitions take place from the  $r$ -centers. The photon-capture cross section  $\beta_r$  was measured for the electron transition from an impurity center to the conductivity band using two different methods, i. e., with and without a consideration of the identities of the  $r$ -centers and of the centers of extrinsic photosensitivity. Since similar values of  $\beta$  were obtained, it follows that in CdS the centers of extrinsic photoconductivity coincide with the  $r$ -centers. The authors thank V. E. Lashkarev for direction of this project. Orig. art. has: 2 figures, 3 formulas.

SUB CODE: 20/      SUBM DATE: 12Jul65/      ORIG REF: 006/      OTH REF: 001

awm

Card 2/2



TSYGANKOV, G.M., polkovnik med. sluzhby; KUZ'MENKO, I.A., podpolkovnik  
med. sluzhby

Radium application; indications and methods of use. Voen.-med. zhur.  
no.6:14-18 Je '58. (MIRA 12:7)

(RADIUM, ther. use

local application to skin surface, indic. and methods  
for use (Rus))

KUZ'MENKO, I.D., uchitel' fiziki.

Elective industrial training for tenth-grade students.  
Politekh. obuch. no.3:31-34 Mr '57.

(MLRA 10:5)

1. Zhelezno-dorozhnaya shkola No. 61, st. Tuanse.  
(Education, Cooperative) (Technical education)

ROMANOV, A.V.; ALEKSANDRI, V.F.; KUZ'MENKO, I.D.

Calculation of spatial flow toward drains under complex hydrogeological conditions. Vop. fil'tr. rasch. gidr. soor. no. 4191-107 '64.  
(MIRA 17:6)

KUZ'MENKO, I.

In the Economics Institute of the Academy of Sciences of the  
Turkmen S.S.R. Vop. ekon. no.3:150-152 Mr '60.

(MIRA 13:2)

1.Uchenyy sekretar' Instituta ekonomiki AN Turkmenskoy SSR, Ashkhabad.  
(Turkmenistan--Labor productivity)

KUZ'MENKO, I.

KUZ'MENKO, I., inzh.

Producing three million bricks yearly. Sil'.bud. 10 no.1:17-18  
Ja '60. (MIRA 13:5)  
(Romny District--Brickmaking)

KUZ'MENKO, I.F., inzh.

Calculation of a helium cooling cycle with cascade connection of  
gas-expansion machines. Izv. vys. ucheb. zav.; energ. 7 no.9:95-  
99 S '64. (MIRA 17:11)

RAPP, L.B.; KUZ'MENKO, I.I.

Synthesis of iodine-containing chloroethylamines of the aliphatic aromatic series. Ukr. khim. zhur. 29 no.7:734-736 '63.

(MIRA 16:8)

1. Ukrainskiy nauchno-issledovatel'skiy sanitarno-khimicheskiy institut.

(Ethylamine)



RAPP, L.B.; KUZ'MENKO, I.I.

Diaryl di( $\beta$ -chloroethyl) amides of phosphoric acid. Zhur.ob.khim.  
33 no.7:2277-2281 J1 '63. (MIRA 16:8)  
(Phosphoramidic acid)

NOVIKOVA, N.V. (Khar'kov); KUZ'MENKO, I.I. (Khar'kov)

Examination of the polarographic effect of blood proteins of normal and castrated animals. Probl.endokr. 1 gorm. 2 no.2:103-108 Mr-Apr '56. (MLRA 9:10)

1. Iz fiziologicheskogo otdela (zav. B.A.Vartapetov) Ukrainskogo instituta eksperimental'noy endokrinologii (dir. - kandidat meditsinskikh nauk S.V.Maksimov)

(POLAROGRAPHY

of blood proteins of castrated & normal animals)

(BLOOD PROTEINS, determ.

polarography of castrated & normal animals)

(CASTRATION, eff.

on polarography of blood proteins of animals)

NOVIKOVA, N.V.; KUZ'MENKO, I.I. (Khar'kov)

Effect of sodium bromide, methyltestosterone, and a methyltestosterone-sodium bromide combination on serum proteins in castrated animals [with summary in English]. Probl.endok. 1 gorm. 5 no.1:51-54 Ja-F '59.

(MIRA 12:3)

1. Iz fiziologicheskogo otdela (zav. - dots. B.A. Vartapetov) Ukrain-skogo instituta eksperimental'noy endokrinologii (dir. - kand. med. nauk S.V. Maksimov).

(CASTRATION,

eff. of sodium bromide & methyltestosterone alone & in combination on blood proteins (Rus))

(BROMIDES, effects,

sodium bromide, on blood proteins in castrated animals, alone & with methyltestosterone (Rus))

(TESTOSTERONE, rel. cpds.

methyltestosterone, eff. on blood proteins in castrated animals, alone & with sodium bromide (Rus))

(BLOOD PROTEINS, eff. of drugs on,

methyltestosterone & sodium bromide, alone & in combination, in castrated animals (Rus))

KUZ'MENKO, I.I., mladshiy nauchnyy sotrudnik

Reliability of laboratory methods for early diagnosis of  
pregnancy in cows. Zhivotnovodstvo 24 no.6:76-78 Je '62.  
(MIRA 17:3)

1. Tsentral'naya opytnaya stantsiya po iskusstvennomu  
osemeneniyu sel'skokhozyaystvennykh zhiivotnykh Ministerstva  
sel'skogo khozyaystva UkrSSR.

RAPP, L.B.; KUZ'MENKO, I.I.

Synthesis of some halobenzyl-di-(2-chloroethyl) amines. Ukr.  
khim. zhur. 31 no.3:287-289 '65. (MIRA 18:4)

1. Ukrainskiy nauchno-issledovatel'skiy sanitarno-khimi-  
cheskiy institut.

KUZ'MENKO, I.I.; RAPP, L.B.

Synthesis of iodo- and chloro-substituted O-phenyl-N-phenyl-  
N', N'-di(2-chloroethyl) diamides of phosphoric acid. Zhur.  
ob. khim. 35 no.7:1222-1224 J1 '65. (MIRA 18:8)

ACC NR: AP6033454

SOURCE CODE: UR/0413/66/000/018/0039/0039

INVENTOR: Kuz'menko, I. I.; Rapp, L. B.

ORG: none

TITLE: Preparation of O-aryl O-phenyl chlorophosphates. Class 12, No. 185904 [announced by Kiev Scientific-Research Institute of Pharmacology and Toxicology (Kiyevskiy nauchno-issledovatel'skiy institut farmakologii i toksikologii)]

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 39

TOPIC TAGS: aryl phenyl chlorophosphate, aryl dichlorophosphate, aluminum chloride, phenol, *phosphate*

ABSTRACT: To simplify the process and to increase the yield of the final product in the preparation of O-aryl O-phenyl chlorophosphates from O-aryl dichlorophosphates, the latter are treated with phenols in the presence of a catalyst, e.g.,  $AlCl_3$ , at 80—145°C. [W.A. 50]

SUB CODE: 07/ SUBM DATE: 13Oct65

Card 1/1

UDC: 547.419.1.07

IVANOV, A.S.; KUZ'MENKO, I.T.; TYURYUKANOV, A.N.

Iodine content of soils in Moscow Province; with regard to the  
problem of the endemy of goiter. Nauch. dokl. vys. shkoly;  
biol. nauki no. 1:213-217 '61. (MIRA 14:2)

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudarstven-  
nogo universiteta im. M.V. Lomonosova i Zagorskim rayzdravotdelom  
Moskovskoy oblasti.

(MOSCOW PROVINCE—SOILS—IODINE CONTENT)  
(GOITER)



Country : USSR  
Category : Soil Science. Physical and Chemical Properties  
of Soil. J

Abstr. Jour. : 53367

Author : Kuz'menko, I.Ye.  
Institut. : Poltava Agricultural Inst.  
Title : Dynamics of Soil Structure Under Winter Crops

Orig. Pub. : Nauchn. tr. Poltavsk. s.-kh. in-t, 1956 (1957),  
5, 188-195

Abstract : A study of the effect of winter wheat and rye on soil structure was conducted on thick, humus deficient, slightly clayey chernozem and on dark gray, clay forest soils on the territory of the Ukrainian affiliate of the All-Union Scientific Research Institute of Fodder. The gradual formation of waterstable aggregates (larger than 0.25 mm) was then observed under these crops beginning in the spring. A marked structural formation was also noted with a decrease in moisture (through the

Card: 1/2

J-18

KUZ'MENKO, K.N.

Some important problems. Sakh.prom. 30 no.7:79 J1 '56.(MLRA 9:11)

1. Starshiy khimik Barskogo sakharnogo zavoda.  
(Sugar industry)

KUZ'MENKO, K.N.  
KUZ'MENKO, K.N.

Cylindrical limekiln. Sakh.prom.31 no.9:65 S '57. (MIRA 10:12)

1. Barskiy sakharnyy zavod.  
(Limekilns)

KUZ'MENKO, K.N.; PLUZHNIKOV, V.Kh.

~~Yuzhnoye~~

Observations of lunar occultations of stars. Tsir.Astren.obser.  
Khar.un. no.9:29 My '52. (MLRA 9:4)  
(Occultations)

KUZ'MENKO, K.N. - PLUZHNIKOV, V. Kh.

Occultations

Observations of lunar occultations of stars at the Kharkov Astronomical  
Observatory. Astron. tsir. no. 127, 1952

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

KUZ'MENKO, K.N.; PLUZHNIKOV, V. Kh.

Observations of lunar occultations of stars at the Kharkov Astronomical  
Observatory. Astron. tsir. no. 135:22-23 F '53. (MLRA 6:6)

1. Khar'kovskaya astronomicheskaya observatoriya. (Occultations)

KUZ'MENKO, K. N.

PLUZHNIKOV, V.Kh.; KUZ'MENKO, K.N.

Observations of occultations of stars at the Kharkov Astronomical Observatory. Astron.tsir. no.143:23-24 N '53.(MLRA 7:8)

1. Khar'kovskaya Astronomicheskaya Observatoriya.  
(Occultations)

KUZMENKO, K.N.; MIKHAYLOV, V.A.; PLUZHNIKOV, V.Kh.

Observations of lunar occultations of the stars at the Kharkov  
Astronomical Observatory. Astron.tsir. no.151:28-29 J1 '54.  
(MLRA 8:3)

1. Khar'kovskaya Astronomicheskaya Obsaervatoriya.  
(Occultations)



SLASTENOV, A.I.; KUZ'MENKO, K.N., kandidat fiziko-matematicheskikh nauk,  
redaktor; LIMONOVA, M.I., tekhredaktor.

[Astronomy at Kharkov University during the last 150 years (1805-  
1955)] Astronomia v Khar'kovskom universitete za 150 let (1805-  
1955); istoricheskii ocherk. Khar'kov, Izd-vo Khar'kovskogo gos.  
univ. imeni A.M.Gor'kogo, 1955. 183 p. [Microfilm] (MLBA 8:5)  
(Kharkov University--History) (Astronomy)

KUZ'MENKO, K.N. ; PLUZHNIKOV, V.Kh.

Observations of lunar occultations of stars at the Kharkov Astronomical Observatory. Astron.tsir.no.156:24 Ja'55. (MLRA 8:10)  
(Occultations)

KUZ'MENKO, K.N.; PLUZHNIKOV, V.Kh.

Catalog of right ascensions of stars FK3 in the FK<sub>3</sub> system  
compiled from observations on the Kharkov meridian circle made  
from 1953 to 1956. Uch. zap. KHGU 86:13-61 '57.

(MIRA 12:5)

(Stars--Catalogs)

S/035/61/000/006/030/044  
A001/A101

3,1240

AUTHORS: Mikhaylov, V.A., Kuz'menko, K.N., Fluzhnikov, V.Kh.

TITLE: Photographic photometry of the solar corona of June 30, 1954, through light filters

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 6, 1961, 53, abstract 6A426 (Tsirkulyar Astron. observ. Khar'kovsk. un-t", 1958, no. 18, 18 - 34)

TEXT: This is a report on the results of a photometric investigation of the solar corona in various spectrum regions. Photographs were taken with a 6-camera coronagraph. "Industar 17" objectives in combinations with various filters were used. Brightness distribution in the corona was obtained in the following spectral regions: 720, 640, 580, 520, 460, and (without a filter 480) m $\mu$ . Exposures were simultaneous in all the cameras. Brightness fall off in all regions is well represented by Baumbach's formula. The authors present photographs of the solar corona in various rays, curves of brightness fall off in these spectral regions and isophotes. B

V. Yesipov

[Abstracter's note: Complete translation]

Card 1/1

SOV/35-59-9-7255

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 9, p 62 (USSR)

AUTHORS: Kuz'menko, K.N., Pluzhnikov, V.Kh.

TITLE: The Observation of a Total Lunar<sup>12</sup> Eclipse on May 13/14, 1957

PERIODICAL: Astron. tsirkulyar, 1958, Feb 25, Nr 189, p 24

ABSTRACT: Moments of the II and III contacts are given, obtained at the Khar'kov Observatory by three observers, with 3", 6", and 8" refractors.

Card 1/1

KUZ'MENKO, K.N.; PLUZHNIKOV, V.Kh., V.Kh.

Observations of lunar occultations of stars at the Kharkov  
Astronomical Observatory in 1957. Astron. tsir. no.189:25  
F '58.

(MIRA 11:8)

1.Khar'kovskaya astronomicheskaya observatoriya.  
(Occultations)

SOV/35-59-8-6200

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,  
Nr 8, p 15

AUTHORS: Kuz'menko, K.N., Pluzhnikov, V.Kh.

TITLE: The Observation of Occultations of Stars by the Moon at the  
KhAO in 1957

PERIODICAL: Astron. tsirkulyar, 1958, February 25, Nr 189, p 27

ABSTRACT: Eight moments of occultations of stars, obtained with the aid of  
6" and 8" refractors are given.

Card 1/i

S/035/61/000/003/008/048  
A001/A101

3.1550

AUTHORS: Kuz'menko, K.N.; Pluzhnikov, V.Kh. and Petrenko, R.M.

TITLE: Photographic observations of the comet Arend-Roland

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 3, 1961, 18, abstract 3A199 ("Tsirkulyar Astron. observ. Khar'kovsk. un-t", 1959, no. 20, 3)

TEXT: The observations were conducted during April-May 1957 by means of a Zeiss astrograph (D = 16 cm, F = 75 cm). The results of observations [ $\alpha$ ,  $\delta$  (1950.0)] and the list of the fundamental stars are presented. ✓

[Abstracter's note: Complete translation]

Card 1/1



9/035/60/000/006/012/038  
A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 6,  
p. 19, # 5013

AUTHORS: Kuz'menko, K. N., Pluzhnikov, V. Kh.

TITLE: Observations of <sup>✓</sup>Star Occultations by the <sup>✓</sup>Moon at the Khar'kov  
Observatory in 1958

PERIODICAL: Astron. tsirkulyar, 1959, iyunya 5, No. 202, p. 20

TEXT: Eleven events of occultations observed with a 6'' and a 8''  
refractor are cited. ✓  
B

Translator's note: This is the full translation of the original Russian  
abstract.

Card 1/1

KUZMENKO, E.N.; PLUZHNIKOV, V.Kh.

Observations of lunar occultation of stars at the Kharkov  
Observatory in 1958. Astron.tsir. no.202:20 Je '59.  
(MIRA 13:4)

1. Khar'kovskaya astronomicheskaya observatoriya.  
(Occultations)

KUZ'MENKO, K.N.; PLUZHNIKOV, V.Kh.

Determining right ascensions of minor planets on the meridian  
circle at the Kharkov Astronomical Observatory in 1959. TSir.  
Astron.obser.Khar.un. no.21:20 '60. (MIRA 13:7)  
(Planets, Minor--Tables)

KUZ'MENKO, K.N.; PIUZHNIKOV, V.Kh.

Determining right ascensions of large planets on the  
meridian circle at the Kharkov Astronomical Observatory  
in 1959. *TSir.Astron.obser.Khar.un.* no.21:19-20 '60.  
(MIRA 13:7)

(Planets--Tables)

S/035/61/000/004/002/058  
A001/A101

3,1420

AUTHOR: Kuz'menko, K. N.

TITLE: On the work of the astrometric section of the Astronomical Observatory at the Khar'kov State University

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 3, abstract 4A29 ("Tr. 14-y Astrometr. konferentsii SSSR, 1958". Moscow-Leningrad, AN SSSR, 1960, 71-72. Discus. 72, English summary)

TEXT: The catalogue of direct ascensions of  $\Phi K C 3$  (FKSZ) has been completed (see RZhAstr, 1958, no. 2, 900). 600 circumpolar stars and major planets are observed with a meridian circle. About 11,000 observations ( $\alpha$  and  $\delta$ ) of circumpolar BD stars carried out during 1909-1914 are being processed. The time service operates regularly according to the IGY program. Non-uniformity in Earth's rotation is being investigated (a 11-year solar cycle in Earth's rotation has been detected). Occultations of stars by the Moon and the comet Arend-Roland were observed.

✓  
B

[Abstractor's note: Complete translation]

D. P.

Card 1/1

KUZMENKO, K.N., (Khar'kov); PLUZHNIKOV, V.Kh. (Khar'kov)

Observations of lunar occultations of stars at the Kharkov Observatory  
in 1959. Astron.tsir. no.210:32-33 Ap '60. (MIRA 13:9)  
(Occultations)

KUZ'MENKO, K.N.; PLUZHNIKOV, V.Kh.

Determining right ascensions of major planets in 1960 on the meridian  
~~circle~~ of the Kharkov Astronomical Observatory. TSir.Astron.obser.-  
Khar.un. no.24:31-32 '61. (MIRA 15:3)

(Planets--Observations)

KUZ'MENKO, K.N.

Observations of lunar occultations of stars in Kharkov. Astron.  
tsir. no.218:23 F '61. (MIRA 14:7)

1. Khar'kovskaya astronomicheskaya observatoriya.  
(Occultations)



KUZ'MENKO, K.N.; PLUZHNIKOV, V.Kh.

Determination of right ascensions of major planets with the  
meridian circle of the Kharkov Astronomical Observatory in  
1961. TSir. Astron. obser. Khar. un. no.26:35-36 '63.  
(MIRA 17:5)

AUTHOR: Kuz'menko, K.N. SOV/26-58-1-26/36

TITLE: How the Pike Swallows Its Prey (Kak shchuka zaglatyvayet dobychu)

PERIODICAL: Priroda, 1958, Nr 1, p 115 (USSR)

ABSTRACT: Contrary to tales insisted upon by fishermen that the pike attacks its prey in the middle of the body, it has become evident from the opened stomachs of numerous pikes that they swallow their prey by starting with its head.

ASSOCIATION: Limnologicheskaya stantsiya Akademii nauk SSSR/oz. Punnus-Yarvi (Limnologic Station of AS USSR/ Punnus-Yarvi Lake)

Card 1/1

KUZ'MENKO, K.N.

Feeding of the Vuoksi lavaret in the experiment pond and lakes of  
the Karelian Isthmus. Trudy Lab. ozeroved. 11:206-216 '60.  
(MIRA 14:8)

(Karelian Isthmus--Whitefishes) (Fishes--Food)

ACCESSION NR: AP4020040

S/0032/64/030/003/0286/0288

AUTHORS: Ratovskaya, A. A.; Kuz'menko, L. A.

TITLE: Photometric determination of furfural in petroleum products

SOURCE: Zavodskaya laboratoriya, v. 30, no. 3, 1964, 286-288

TOPIC TAGS: petroleum, petroleum product, furfural, phloroglucinol, photometric method, FEK N 57 photometer, optical density

ABSTRACT: The determination of furfural was conducted by the phloroglucinol method on 0.15-0.05 gm of the petroleum fraction, the magnitude of the aliquot varying with the expected percentage of furfural, (usually between 1.0-10.0%). The sample was diluted 1:100 with ethanol, and 0.1 or more milliliters of the solution were introduced into glass-stoppered graduate cylinders of 10 ml capacity containing 5 ml of ethanol. To it were added 1.0 ml of 1% alcoholic solution of phloroglucinol, 0.05 ml of 1-normal NaOH, 0.2 ml concentrated ammonia solution containing 5% H<sub>2</sub>O<sub>2</sub>, and ethanol to the 10-ml mark. After allowing the solution to stand for 30 minutes, its optical density was determined at a wave length of

Card 1/2

ACCESSION NR: AP4020040

413 millimicrons, using an FEK-N-57 spectrophotometer. The overall length of the determination was 40 minutes, and the average error of the method amounted to 2.5%. The method was found useful in application to a wide range of petroleum fractions, including oils, and is already used in the analysis of industrial petroleum products as well as crude naptha. Orig. art. has: 1 formula, 2 charts, and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut neftekhimicheskikh proizvodstv, g. Ufa (Scientific Research Institute of Petroleum Chemical Industries)

SUBMITTED: OO

DATE ACQ: 27Mar64

ENCL: OO

SUB CODE: CH

NO REF SOV: 000

OTHER: 002

Card 2/2

KUZ'MENKO, L., inzhener.

Automatic control of water and steam consumption in washing  
machines. Mias. ind. SSSR 28 no.3:16-17 '57. (MLRA 10:6)

1. Moskovskiy myasnoy kombinat.  
(Automatic control) (Washing machines)

KUZ'MENKO, L.

Automatic temperature regulation in drying apparatus with steam heating. Mias. 29 no.6:13-15 '58. (MIRA 11:12)

1. Moskovskiy tekhnologicheskij institut myasnoy i molochnoy promyshlennosti.

(Meat industry--Equipment and supplies)  
(Temperature regulators)

KUZ'MENKO, L., inzh.

Automatic regulation and control of the blood drying process.  
Mias.ind.SSSR 31 no.5:46-50 '60. (MIRA 13:9)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy  
promyshlennosti.  
(Blood---Drying) (Automatic control)



KUZ'MENKO, L. A.

Cand Tech Sci - (diss) "Study of several objectives and parameters for boiling of meat products with the use of automatic control." Moscow, 1961. 22 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Technological Inst of the Refrigeration Industry); 175 copies; price not given; (KL, 6-61 sup, 219)

KUZ 'MENKO, L.

Automatic regulation and control of temperature in cooking  
ham. Mias. ind. SSSR 32 no.4:46-49 '61. (MIRA 14:9)  
(Ham)

KUZ'MENKO, L.A.

[New developments in the automation of the processes in the meat industry] Novoe v avtomatizatsii protsessov v miasnoi promyshlennosti. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1963. 78 p.  
(MIRA 17:10)

KUZ'MENKO, L.A.

[Operation of control and automatic regulation instruments  
in meat production combines] Eksploatatsiia priborov kontrolya  
i avtomaticheskogo regulirovaniia na miasokombinatakh. Mo-  
skva, TSentr. in-t nauchno-tekhn. informatsii pishchevof' pro-  
myshl., 1964. 60 p. (MIRA 18:8)

KUZ'MENKO, L. M.

AID P - 2876

Subject : USSR/Engineering  
Card 1/1 Pub. 110-a - 9/16  
Author : Kuz'menko, L. M., Eng.  
Title : ~~Using short-flame, half-ejection gas-burners for industrial boilers~~  
Periodical : Teploenergetika, 10, 49-52, 0 1955  
Abstract : The use of blast-furnace gas burners is discussed. The design of a new burner with a 12,000 m<sup>3</sup> per hour capacity is described in detail and the experiments made are listed in a table. Emphasis is given to the shortness of the flame and some recommendations on their operations are given. Two diagrams.  
Institution : Yuvenergohermet (South-eastern power system for the steel industry)  
Submitted : No date

KUZ'MENKO, L.M., inzhener.

Muffler for compressed air noise. Prom. energ. 12 no.2:11-12  
F '57. (MIRA 10:3)

1. Yuvenergochermet  
(Turbomachines—Mufflers)

KUZMENKO L. N.

PA 10T83

USSR/Medicine - Neurosurgery  
Medicine, Military

Mar 1947

"Long Range Results of Treatment of Gunshot Lesions  
of Peripheral Nerves by Operation," L. N. Kuzmenko,  
2 pp

"Voprosy Neyrokhirurgii" Vol XI, No 3

Discusses the radial nerve, the peroneal nerve, the  
ischial nerve, the elbow nerve, and the median  
nerve.

10T83

KUZMENKO, L. N.

"Gramicidin in Surgical Practice," Kiev, 1949 (Library of the Practical Physician).



KUZMENKO, L. N.

PA 64/49T95

USSR/Medicine - Cerebral Abscess  
Medicine - Gramicidin

Jan/Feb 49

"Gramicidin Therapy of Cerebral Abscesses," Prof  
L. N. Kuzmenko, Chief, Chair of Faculty Surg,  
Stalino Med Inst, 5 3/4 pp

"Vop Neyrokhirurg" No 1

Reviewed three such cases and recommended two  
general types of gramicidin therapy. In the case  
where no foreign body was present in the abscess,  
punctured or aspirated the pus from the abscess  
cavity, then irrigated and dressed the cavity with  
gramicidin. Where a foreign body was present,  
opened the abscess, drained, and treated daily  
with gramicidin. Submitted 16 Mar 48.

64/49T95

KUZ'MENKO, L. N.

Kuz'menko, L. N. "On penicillin therapy and the timeliness of surgical aid," Vracheb. delo, 1949, No. 3, paragraphs 237-40.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 18, 1949).

RUZMBENKO, L. N.

1799. **The Study of the Physiology of Gastric Secretion in Man.** (Об изучении физиологии желудочной секреции у человека)  
 L. N. KUZMBENKO. Клиническая Медицина [Klin. Med., Mosk.] 28, No. 3, 34-42, March, 1950. 9 figs.

The work of Pavlov on the physiology of gastric secretion showed that the activity of the gastric glands is phasic and can be divided into three stages: (1) the nervous reflex stage worked out by Pavlov in experiments on sham-feeding; (2) the chemico-humoral, regarded by Edkins as due to the hormone gastrin elaborated by the pyloric mucosa; (3) the stage in which the stimulus is due to chemical substances in the food after digestion in the small intestine.

The author demonstrates that all these stimuli in turn take their part in the production of gastric juice. He has investigated gastric secretion in patients subjected to oesophago-jejunostomy for stenosis of the oesophagus due to swallowing caustic fluids. This operation was performed in two stages. In the first, the proximal part of the jejunum was brought up under the skin to the anterior aspect of the neck, where a fistulous opening was made, and the duodenum united to the jejunum by an end-to-side anastomosis. At the second stage, the upper end of the jejunum was anastomosed to the proximal part of the oesophagus. In all these cases a gastric fistula already existed, through which the patient had been fed, and from which after the first stage of the operation had been completed a pure specimen of gastric juice could be obtained at will. Thus the first stage of gastric secretion could be studied by sham-feeding the

1799 Cont.

EXPERIMENTAL AND

patient in the usual way: the second, by introducing food into the gastric fistula direct; and the third, by feeding the patient, after the first stage of the operation, through his jejunal fistula. The first and third stages could be studied by feeding the patient by mouth after the completion of the "plastic oesophagus" before closure of his gastric fistula, the second stage being eliminated because food passed from mouth direct to small intestine. [The author does not mention whether the stomach was resected in this final stage of the operation.]

He found that the reflex secretion varied considerably with the palatability of the food, and could be excited by the sight of food being eaten by others. It could be suppressed by pain (for example, when a specimen of blood was withdrawn intravenously just after a meal) or by food very distasteful to the patient. It was complete in 60 to 75 minutes. The chemical phase begins about 1 hour after a meal. Meat soup calls forth a greater secretion than does milk or fat, but bread is nearly as good a stimulator as meat. This phase is inhibited by vagotomy. The third or humoral phase arises still later (2 hours). It is independent of the integrity of the vagus and of psychic influences, and is more freely provoked by meat than by carbohydrate or fatty food.

L. Firman-Edwards

Abstracts of World Medicine  
Vol 8 1950

RUSOMNO, L. M., Prof.

Spinal Cord - Tumors

"Congenital intraspinal tubulodermoid."  
Vop. neirokhir. 16 No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

SHEYN, A.A., professor, direktor; KUZMENKO, L.N., professor, direktor.

History of leprology in Russia; effect of suggestion on the course of leprosy. Vest.ven.i derm. no.2:50-51 Mr-Apr '53... (MLRA 6:5)

1. Klinika koshaykh i venericheskikh bolezney L'vovskogo meditsinskogo instituta (for Shteyn). 2. L'vovskiy meditsinskii institut (for Kuzmenko). (Leprosy). (Sobolev, Leonid Vasil'yevich, 1876-1919) (Hypnotism--Therapeutic use)

GNIDETS, I.R., kandidat farmatsevticheskikh nauk; KARPENKO, G.A., dotsent, zavednyushchiy Kafedry tekhnologii lekartstvennykh form i galenovykh preparatov L'vovskogo meditsinskogo instituta; KUZMENKO, L.N., profesor, direktor L'vovskogo meditsinskogo instituta.

Studies on glucoside extracts from water pepper herbs. Apt.delo 2 no.2:  
41-45 Mr-Ap '53. (MLRA 6:5)

1. Kafedra tekhnologii lekarstvennykh form i galenovykh preparatov L'vovskogo meditsinskogo instituta Ministerstva zdavookhraneniya USSR.  
(Glucosides) (Persicaria)

4

KUZ'MENKO, L.N., professor, zaveduyushchiy.

Resuscitation in clinical death. Khirurgia no.5:34-37 My '53. (MLRA 6:7)

1. Kafedra fakul'tetskoy khirurgii Stalinskogo meditsinskogo instituta.  
(Resuscitation)

Abstract - M-670, 27 Jul 53



KARAVANOV, G.G.; KUZMENKO, L.N., professor, direktor.

Determination of the state of collateral blood circulation in operations for  
traumatic aneurisms. Sov.med. 17 no.10:35-36 0 '53. (MLRA 6:10)

1. Klinika fakul'tetskoy khirurgii L'vovskogo meditsinskogo instituta.  
(Aneurysms) (Blood--Circulation)

KUZMENKO, L.N.

Resuscitation in clinical death, Khirurgiia, Moskva no.5:34-37 May 1953.

(CIML 25:1)

1. Professor. 2. Of the Faculty Surgery Department (Head -- Prof. L. N. Kuz'menko), Stalino Medical Institute.

KUZMENKO, L.N., professor (L'vov)

"Diagnosis." [professor] S.A.Giliarevskii. Reviewed by L.N.Kuzmenko.  
Terap. arkh. 26 no.2:85-89 Mr-Apr '54. (MLBA 7:8)  
(DIAGNOSIS) (GILIAREVSKII, S.A.)

KUZMENKO, Leonid Nikolayevich, prof.; GEL'FER, P.I., red.; GITSHTEYN,  
A.D., tekhnred.

[Urolithiasis] Mochekamennaya bolezni'. Kiev, Gos.med.izd-vo  
USSR, 1960. 287 p. (MIRA 13:12)  
(CALCULI, URINARY)

KUZMENKO, L.N., prof.; PODIL'CHAK, M.D., doktor med.nauk; MAKAR, D.A.,  
kand.med.nauk

Chromatographic investigation of the blood in malignant neoplasms.  
Vrach. delo no.4:70-75 Ap '61. (MIRA 14:6)

1. Kafedra gospital'noy khirurgii (zav. - prof., doktor med.nauk  
L.N.Kuzmenko) L'vovskogo meditsinskogo instituta.  
(BLOOD-EXAMINATION) (PAPER CHROMATOGRAPHY) (CANCER)

KUZMENKO, L. N.; PODILCAK, M. D.; MAKAR, D. A.

Studies on the amino acid composition of Brown-Pearce carcinoma tissues. Neoplasma 8 no.6:567-574 '61.

1. Kafedra gospital'noy khirurgii L'vovskogo meditsinskogo instituta L'vov, SSSR.

(NEOPLASMS metab) (AMINO ACIDS metab)

KUZMENKO, L.N., prof.; MARTYNYUK, V.Z., prof.

Reorganizing educational work in Lvov Medical Institute. Vrach.  
deolo no.10:132-136 0 '62. (MIRA 15:10)

1. Rektor L'vovskogo meditsinskogo instituta (for Kuzmenko).
2. Prorektor L'vovskogo meditsinskogo instituta (for Martynyuk).  
(LVOV—~~MEDICINE~~—STUDY AND TEACHING)

KUZMENKO, L.N., prof.; MAKAR, D.A., kand.med.nauk

Postoperative thyrotoxic crisis; its prevention and treatment.  
Klin.khir. no.11:49-52 N '62. (MIRA 16:2)

1. Kafedra gospiatal'noy khirurgii (zav. - prof. L.N. Kuzmenko)  
L'vovskogo meditsinskogo instituta.  
(THYROID GLAND--SURGERY)



KUZ'MENKO, L.P.

Sucking reflex in the newborn. Padiatriia no.11:22-27 N '57.

(MIRA 11:2)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. M.V.Dubnov)  
Chkalovskogo meditsinskogo instituta (dir. - prof. I.V.Sidorenkov)

(INFANTS (NEWBORN)) (REFLEXES)

KUZ'MENKO, L.P., assistant

Influence of rapid labor on the mother and newborn infant. Kaz. med.  
zhur. no.6:66 N-D '60. (MIRA 13:12)

1. Kafedra akusherstva i ginekologii (ispolnyayushchiy obyazannosti  
zav. - dotsent Ya.Ye. Krivitskiy) Orenburgskogo meditsinskogo instituta.  
(LABOR (OBSTETRICS))

SHAVLOVSKIY, G.M.; LOGVINENKO, Ye.M.; KUZ'MENKO, L.T.

Modified method of determining biotin with the help of *Candida tropicalis* SK-4 yeast. Prikl. biokhim. i mikrobiol. 1 no.4:452.  
460 JI-Ag '65. (MIRA 18:11)

1. Kafedra mikrobiologii K'ievskogo gosudarstvennogo universiteta imeni Ivana Franko.

KUZ 'MENKO, L. V.

USSR/Electricity - Hydraulics Drainage

Aug 51

"The Application of Electroosmotic Effects in Hydraulic Engineering Structures,"  
Prof K. M. Polivanov, Dr Tech Sci, Docent A. V. Netushil, Cand Tech Sci, N M.  
Burdek, Engr, all of the Moscow Power Eng Inst imeni Molotov; L. V. Kuz 'menko,  
Cand Tech Sci, "Gidroyekt"

"Elektrichestvo" No 8, pp 1-19

Electroosmotic water reduction and elec drainage are of practical interest for  
hydraulic engineering structures. Describes the use of electroosmotic effects on  
the process of filtration of ground waters. Analysis of the general differential  
eq of filtration yields a method for measuring the electroosmotic consts of soils.  
Submitted 11 Apr 51.

PA 196T23

KUZ'MENKO, L.V., kandidat tekhnicheskikh nauk.

Using electroosmosis in construction work. Elektrichestvo no.11:88-89  
N '53. (MLRA 6:10)  
(Electroosmosis)

KUZ'MENKO, L.V., kandidat tekhnicheskikh nauk.

Electric vacuum method of drying soils having weak water drainage.  
Biul.stroi.tekh. 13 no.5:11-13 My '56. (MLRA 9:8)  
(Soil heating) (Water, Underground)

28(2)

AUTHOR:

Kuz'menko, Leonid Vasil'yevich, Candidate SOV/161-58-2-11/30  
of Technical Sciences, Senior Scientific Collaborator at the  
Akademiya stroitel'stva i arkhitektury (Academy of Construction  
Engineering and Architecture)

TITLE:

Slot-Hydrointegrators (Shchelevyye gidrointegratory)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika,  
1958, Nr 2, pp 85 - 93 (USSR)

ABSTRACT:

The fundamentals of construction of integrators that are based on hydraulic analogies and offer the possibility of investigating unsteady processes are described. The hydro-integrators are subdivided into two main groups: devices working on the principle of finite differences (lattice-hydrointegrators) and those that are based on the use of traversing agents (slot-hydrointegrators). The fundamental scheme of the slot-hydrointegrators consists of two vertically erected and closely situated smooth plates. The narrow slot between the plates is passed by a laminar flow of liquid (Ref 2). The basis of lattice-hydrointegrators is formed by the differential equation of the Fourier-type (Fur'ye) expressed by finite differences. The method of finite differ-

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Slot-Hydrointegrators

SOV/161-58-2-11/30

ences, in both electrointegrators and hydrointegrators, leads to errors and the accuracy of the solutions of the problems, therefore, is much lower for lattice models than for models made by means of a slot-hydrointegrator. The imperfections of the lattice-hydrointegrators are indicated. The description of a slot-hydrointegrator is given. As working fluid a "vinypol" solution (vinyl-butyl-ester) in medical Vaseline oil of 1/3 "vinypol" and 2/3 oil was used. At room temperature the "vinypol" has a viscosity of about 100 stokes. The device costs 9000 roubles and its area is that of a medium-sized writing table. Neither both types of hydrointegrators nor the electrointegrator permit a solution of three-dimensional problems under unsteady conditions to be obtained. For this reason, a space slot hydrointegrator was developed. This device is theoretically based on the Fourier equation expressing two terms only, on the x- and z-axis, in finite differences whilst the third term and the derivative with respect to time remain in the usual form. The construction of the device is prism-shaped. It is assumed that the investigated range of volume wherein the heat-transfer takes place is subdivided into a number of series of vertically arranged

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Slot-Hydrointegrators

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prisms of a square base. The space slot hydrointegrator requires a space of 7 m<sup>2</sup> and its cost amounts to about 32000 roubles. The tests on the models of single assemblies gave good results. There are 3 figures and 3 Soviet references.

ASSOCIATION: Laboratoriya gidro-geologicheskikh problem AN SSSR (Laboratory for Hydrogeological Problems, AS USSR)

SUBMITTED: April 18, 1958

Card 3/3

06391

SOV/170-59-2-9/23

24(8); 28(2)

AUTHOR: Kuz'menko, L.V.

TITLE: Interstice Hydrointegrators

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 2, pp 72-78 (USSR)

ABSTRACT: Hydrointegrators are divided into two main groups: network and interstice hydrointegrators. The present paper describes the design and mode of operation of the second type which, in the author's opinion, is simpler and cheaper than the network hydrointegrators. The interstice hydrointegrator, (pictures in Figure 1), consists of two smooth vertical plates separated by a narrow interstice through which a laminar flow of liquid runs. This device is based on using the analogy between the movement of a viscous liquid in a narrow interstice and a heat flow in some media, because both of them are described by the Laplace two-dimensional equation. With this device, it is also possible to simulate plane non-stationary thermal processes of heat transfer in stratified media. The solution of "vinipol" (vinyl-butyl ester) in medical vaseline oil in a ratio of 1/3 to 2/3 is used as an operating liquid having a viscosity of 100 stokes at room temperature. Introducing a dye into the liquid, the direction of the lines of liquid flows, simulating a thermal flux, is observed and photographed.

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Interstice Hydrointegrators

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SOV/170-59-2-9/23

The cost of this device is about 9,000 rubles. In order to solve three-dimensional problems with varying in time conditions, a space interstice hydrointegrator has also been designed. It consists of a system of prisms, shown schematically in Figure 4. It occupies 7 m<sup>2</sup> of area and costs about 32,000 rubles.

There are: 2 photos, 2 diagrams and 1 Soviet reference.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii (All-Union Scientific Research Institute of Water Supply, Sewerage, Hydro-Engineering Construction and Engineering Hydrogeology), Moscow.

Card 2/2

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S/049/60/000/010/012/014  
E133/E414

3,5000  
9.9822

AUTHORS: Komarov, N.N., ~~Kuz'menko, M.D.~~ and Seredkin, A.A.

TITLE: Measurements of the Ionized Constituents of the  
Atmosphere During Anti-Cyclonic Conditions

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,  
1960, No.10, pp.1534-1540

TEXT: The ion spectrum of the atmosphere depends on a large number of factors, e.g. amount of convection, quantity of dust present etc. Hence, to separate out the effects of the different variables, it is best to use the simplest meteorological conditions possible, such, for example, as exist during a stable anti-cyclone. Methods previously described (Ref.2 and 3) were used to determine simultaneously the distribution spectra for both positive and negative ions using an aircraft flying at various heights. Pressure, temperature etc were recorded at the same time. In considering the results, only completely cloudless days during the anti-cyclone were taken. Curves are reproduced showing

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