1,1060

24,3500,

s/058/62/000/008/051/134 A061/A101

**AUTHORS:** 

Kosman, M. S., Pettsol'd, E. G.

TITLE:

Electroluminescence of zinc oxide with bismuth oxide impurity

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 45, abstract 8V321 ("Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena", 1961,

v. 207, 51 - 63)

\_\_\_\_

The electroluminescence of zinc oxide with bismuth oxide impurity was investigated by passing direct or alternating current through pressed samples. Two emission bands with maxima at 5,700 and 6,200 Å, related to two forms of luminescence centers at 0.08 and 0.2 ev depth, were established. The luminescence centers were formed by ions of the excess zinc. It is noted that the quantum yield in the samples increases with their dielectric constant. The appearance of luminescence is associated with the accumulation of space charge in the crystal section near the electrode. There are 37 references.

[Abstracter's note: Complete translation]

A. Burlakov

Card 1/1

CIA-RDP86-00513R000825120012-0" APPROVED FOR RELEASE: 06/14/2000

## "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825120012-0

KOSMAN, M.S.; ALEKSANDROVA, M.S. Some characteristics of the photoconductivity of zinc oxide in regions near to the electrode. Uch.zap.Red.inst.Gerts.no.207:65-69 '61. 1. Leningradskiy gosudarstvennyy pedagogicheskiy institut imeni A.L. Gertsena.

(Photoconductivity)

(Zinc exide)

CIA-RDP86-00513R000825120012-0" APPROVED FOR RELEASE: 06/14/2000

24,2600

5/058/62/000/008/123/134 A160/A101

**AUTHORS:** 

Kosman, M. S., Izvozchikov, V. A.

TITLE:

The relation of the intrinsic photoeffect in PbO to the phenomena near the electrodes

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 8, 1962, 40, abstract 8-3-79n ("Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena", 1961,

207, 81 - 91)

TEXT: Investigated were activated and non-activated photoresistors obtained by pressing yellow lead oxide which turned red under pressure. The relation between the distribution of the potential and illumination was measured. The measurements were conducted in fields up to 200 v/cm with the help of probes, and in more intense fields - with a string electrometer. One part of the measurements was carried out in gasoline to eliminate the effect of humidity on the conductivity. The relation between the potential jumps near the electrodes and the applied voltage and illumination was determined by tests. The character of the polarization phenomena observed during the closing of the electric circuit

Card 1/2

#### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDI

CIA-RDP86-00513R000825120012-0

S/058/62/000/008/123/134 A160/A101

The relation of the intrinsic photoeffect...

or during a sudden reversal of the field was investigated. An investigation of the volt-ampere characteristics revealed that the Ohm's law becomes effective in weak fields only. The results obtained are explained as a result of storing space charges. There are 35 references.

.1

VB

N.S.

[Abstracter's note: Complete translation]

Card 2/2

ц1226 S/194/62/000/007/081/160 D295/D308

9.4160

AUTHORS:

Kosman, M.S., and Izvozchikov, V.A.

TITLE:

Coloring of lead oxide under illumination in an

electric field

PERIODICAL:

Card 1/2

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-5-3 e (Uch. zap. Leningr. gos. ped. in-ta, im. A.I. Gertsena, 207, 1961, 93 - 103)

TEXT: The coloring of PbO begins with field strengths of 10<sup>3</sup> V/cm near macro-defects and grain boundaries. Coloring is green or yellow PbO and blue on red PbO. As the field strength increases, the low PbO and intensity of coloring increase and the color becomes grey area and intensity of coloring increase and the color becomes grey the electrodes. In the presence of a monochromatic beam, coloring the electrodes. In the presence of a monochromatic beam, coloring the electrodes. In the wavelength of the incident light coroccurs on condition that the wavelength of the incident light corresponds to a region of high photo-sensitivity. Removal of moisture responds to a region of high photo-sensitivity and reduced colorate 300°C resulted in increased photo-sensitivity and reduced coloring rate. Adsorbed moisture increases the susceptibility of PbO to

Coloring of lead oxide under ...

S/194/62/000/007/081/160 D295/D308

coloring. By depositing a drop of  $\rm H_2O$  on PbO blue coloring is observed near the drop and red coloring under it. Coloring modifies the optical properties of PbO. Annealing of colored PbO at a temperature of 300°C removes coloring and the optical properties are recovered. The photoelectric properties of PbO vary after coloring. The current decrease due to coloring bears a unipolar character. The temperature dependence of electric conductivity also varies with coloring. In an alternating field no coloring is observed. 23 references. [Abstracter's note: Complete translation.]

Card 2/2

12028

s/058/62/000/009/069/069 A057/A101

247700

AUTHORS:

Kosman, M. S., Pettsol'd, E. G.

TITLE:

On the possibility of production of symmetric zinc oxide varistors

with bismuth oxide admixture

PERIODICAL:

Referativnyy zhurnal, Fizika, no, 9, 1962, 25, abstract 9-4-49shch ("Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena", 1961,

v. 207, 191 - 197)

TEXT: Investigating the Losev effect it was observed that ceramic samples (S) of zinc oxide with a bismuth oxide admixture have properties of a nonlinear symmetric resistance and are suitable for use at low currents and voltages. The technology of their production is simple and needs no complicated equipment: the mechanical mixture is pressed at a pressure of  $5 \cdot 10^4 \text{ kg/m}^2$  into discs of 1.5 mm thickness and 12 mm in diameter. The per cent content of the admixture is determined by weight and varies from 0.5 to 60%. The electrical properties of the S depend on the temperature and duration of the calcination of the mixture, the cooling rate and content of admixture. S can be prepared with an

Card 1/3

S/058/62/000/009/069/069 A057/A101

On the possibility of production of ...

electric conductance of  $10^{-6} - 10^{-11}$  ohm<sup>-1</sup>.cm<sup>-1</sup>. Investigations of the electrical properties were carried out at constant, alternating, and pulse voltages. The taken voltampere characteristics (VC) show that the VC can be approximately described, in a sufficiently wide range of constant and alternating voltages, by  $\frac{\log I_1/I_2}{I_1}$  is the coefficient of nonlinearity; the equation  $I = AV^{CC}$ , where CC =Measurements of the same sample in vacuum, air, and I = current: V = voltage. at.liquid air temperature showed changes of of from 5 to 4 and 4.4 respectively. At a pulse voltage a sharp increase of the current passing through the S can be observed, which is related, apparently, with time factors of formation of space charges, effecting also a decrease of the current at an increase of the duration of pulses (at constant pulse repetition rate and voltage). The S has completely symmetric VC branches at alternating current. The increase in calcination temperature of the S with the same content of admixture and cooling rate effects, as a rule, an increase of the electric conductance. The latter was also observed at an increase of the cooling rate. The S with 5 - 15% admixture have the smallest electric conductance; the  $\alpha$ -value depends upon the latter. An increase in the frequency of the alternating voltage effects the development of

Card 2/3

40896

24.7700 30

S/181/62/004/009/036/045 B104/B186

AUTHORS:

Kosman, M. S., and Nesmelova, L. I.

TITLE:

Negative photoconductivity of cuprous oxide near a point contact

PERIODICAL: Fizika tverdogo tela, v. 4, no. 9, 1962, 2608 - 2610

TEXT: The processes taking place in polycrystalline cuprous oxides

(9 = 10<sup>3</sup> ohm·cm) near the electrodes and at a certain distance from them were studied separately. The experiments were made at room temperature, in normal air humidity, with one point electrode, and one plane electrode. The specimens were irradiated with pulses of white light. The current passing through them was kept constant. The changes in the potential distribution along the specimen under the action of the light pulses were measured. The potential distribution (Fig. 1) is highly nonlinear and the sign of photoconductivity changes along the specimen. In the region (ab) (Fig. 1) photoconductivity is negative and the relaxation time is in the range of 10<sup>-2</sup> sec. A positive photoconductivity with a relaxation time

X

41768 S/194/62/000/008/038/100 D295/D308

9,4160

AUTHOR:

Kosman, M.S., and Izvozchikov, V.A.

TITLE:

Connection of the internal photoelectric effect in PbO

with phenomena near the electrode

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-3-79 n (Uch. zap. Leningr. gos.

ped. in-ta im. A.I. Gertsena, no. 207, 1961, 81-91)

TEXT: The authors have investigated the activated and non-activated photo-resistances obtained by compacting yellow lead oxide which turned to red oxide under pressure. The dependence of the potential distribution on illuminance was measured; the measurement was carried out by means of probes in fields of up to 200 V/cm, and by means of a string electrometer in more intense fields. A part of the measurements was carried out in benzene in order to eliminate the influence of humidity on conductivity. The dependence of potential jumps near the electrode on the voltage applied and on illuminance was established. The nature of the polarization phenomena, observed when the electric circuit is closed or when the field direc-Card 1/2

s/194/62/000/009/058/100 D295/D308

9.2100

Kosman, M. S. and Pettsol'd, E. G.

On the possibility of fabricating symmetrical varis-AUTHORS:

tors of zinc oxide with bismuth-oxide doping TITLE:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 9, 1962, 25, abstract 9-4-49 shch (Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, no. 207, PERIODICAL:

1961, 191-197)

TEXT: It has been found, in investigating Losev's effect, that ceramic samples of zinc oxide with bismuth-oxide doping have pro-X perties of nonlinear symmetrical resistors and are suitable for use with small currents and voltages. The technology of their fabrication is simple and does not require complicated apparatus: A mechanical mixture is compacted under 5 x 104 kg/m² pressure into A mechanical mixture is compacted under 7 x 10. Ag/m- pressure into discs of 1.5 mm thickness and 12 mm diameter. The impurity percentage is determined according to weight and varies from 0.5 to 60%.

Card 1/4

On the possibility of ...

S/194/62/000/009/058/100 D295/D308

rature of samples with the same impurity content and cooling rate causes, as a rule, an increase of electrical conductivity. The latter is also observed at an increase of cooling rate. Samples with 5 - 15% impurity have the lowest electrical conductivity, a is completely determined by the latter. An increase of the frequency of the alternate voltage leads to the arising of a hysteresis loop, connected with an increase of reactance owing to the self-capacitance of the sample. The most probable explanation of the properties of nonlinear resistances is the hypothesis of the existence of thin barrier layers connected with the surface state of the sample, which is indicated by the modifications of the voltage-current characteristics in the presence of oxygen. In this connection surface energy levels are formed on the surface of grains of zinc oxide owing to the adsorption of oxygen, and occupied by conductivity electrons from the volume, thus modifying the electrical and optical properties of the grains. Apparently surface barriers are the cause of the symmetry of the current-voltage characteristics. Their influence is noticeable for a surface-to-volume ratio of 10<sup>-3</sup> cm<sup>-1</sup> or more.

Card 3/4

On the possibility of ...

S/194/62/000/009/058/100 D295/D308

Since, according to data from the literature, the electrical resistance of baked zinc oxide increases at the places of fusion of grains, where the cross-section is considerably smaller than the cross-section of the grains themselves, then the surface-to-volume ratio is high and the surface state affects markedly the resistance of the sample. / Abstracter's note: Complete translation. /

Card 2/2 4/4

KOSMAN, M.S.; NESMELOVA, L.I.

Negative photoconductivity of copper oxide near a point contact. Fiz. tver. tela 4 no.9:2608-2610 S '62. (MIRA 15:9)

1.7

IZVOZCHIKOV, V.A.; KOSMAN, M.S.

Photoelectric and optical properties of lead oxide. Izv. vys. ucheb. zav.; fiz. ne.4:128-135 '63. (MIRA 16:9)

1. Leningradskiy pedagogicheskiy institut imeni A.I.Gertsena.

(Lead oxide—Pheteelectric properties)

(Lead oxide—Optical properties)

8/0020/64/156/004/0778/0780

ACCESSION NR: AP4041142

AUTHOR: Kosman, M. S.; Sozina, A. N.; Alikhanov, A. I.

TITIE: Relaxation oscillations in dielectrics

SOURCE: AN SSSR. Doklady\*, v. 156, no. 4, 1964, 778-780

TOPIC TAGS: dielectric relaxation oscillation, resistance variation, volume charge, barium titanate

ABSTRACT: The authors have found in a previous work (Fiz. tverd. tela 3, 2504, 1961) that current oscillations are produced in silicon upon application of a sufficiently high voltage. They find now a similar phenomenon in dielectrics such as polycrystalline barium titanate, and in many others. The oscillations are observed with an oscilloscope on a 1 mm thick sample, with one flat and one pointed electrode; the applied voltage is about 700 v. The current pulses are not strictly periodical. Higher "frequency" corresponds to a lower amplitude. The circuit resistance greatly influences the pattern. With 100 ohms, the current reaches the maximum in about 1000 sec, the decrease is somewhat longer. It appears that while in the semiconductors the resistance changes during the oscillations only in the

Card 1/2

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ard 2/2							:	

IZVOZCHIKOV, V.A.; KOSMAN, M.S.; CHERNYAVSKIY, K.A.

Photocurrent fluctuations in PbO photoresistors. Fiz. tver. tela 7 no.5:1552-1556 My '65. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut imeni Gertsena i Muromskiy pedagogicheskiy institut.

# "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825120012-0

BORDOWSKIY, G.A.; IZVOZCHIKOV, V.A.; KOSMAN, M.S., prof., nauchnyy rukovoditel' raboty

Temperature dependence of the kinetics of photoconductivity in lead oxide. Uch. zap. Ped. inst. Gerts. 239:53-56 '64. (MIRA 18:3)

EPF(c)/EVI(m)/EVP(b)/EVP(t) IJP(c) JD UR/0181/65/007/005/1552/1556 AP5012575 ACCESSION NR: AUTHOR: Izvozchikov, V. A.; Kosman, M. S.; Chernyavskiy, K. A. TITLE: Fluctuations of the photocurrent in Pb0 photoresistors. SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1552-1556 TOPIC TAGS: lead oxide, photocurrent, photoresistor, volt ampere characteristic, oscillation ABSTRACT: The authors observed pre-breakdown current oscillations on the superlinear section of the volt-ampère characteristic (E ~ 104 V/cm) of polycrystalline lead oxide. They were able to obtain fluctuations of the photocurrent at relatively low voltage (corresponding to the start of the sublinear dependence of the current on the voltage when the field exceeds 5 x 102 V/cm). These oscillations arise when the illumination is turned on and vanish when it is turned off. If the voltage is increased, the oscillations net in also in darkness if the circuit is closed, but their amplitude increases when the light is turned on. In the latter case therefore the oscillations exist only during the growth of the dc component of the photocurrent and stop when a certain current is reached. The higher the photoelectric sensitivity of the sample, the easier it was to obtain stable oscillations at lower voltages. It is concluded that the condition for the occurrence of oscilla-Cord 1/2

# "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825120012-0

ACCESSION NR: AB5012575			2/,				
tions is the presence of a strong field and of excitation of the carriers by either light or a field. Coloring reduces the field intensity near the electrode. Similarities between this process and the current fluctuations observed in other semi-conductors in strong fields and connected with the filling and depletion of surface							
traps are pointed out. Orig. art. has: 2 figures.  ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut im. A. I.							
Gertsens (Leningrad State	-Redagogical Institute)						
institut (Muromak Pedagog SUBMITTED: 15Nov64	ENCL: 00	SUB CODE:	68, <i>OP</i>				
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#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825120012-0

L\_02225-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD/AT
ACC\_NR: AR6013676 SDURCE CODE: UR/0058/65/000/010/E077/E077

AUTHOR: Kosman, M. S.; Izvozchikov, V. A.

63

TITLE: Pre-breakdown oscillations of the dark current and light-induced breakdown and oscillations of photocurrent in lead oxide photoresistances

SOURCE: Ref. zh. Fizika, Abs. 10E629

REF. SOURCE: Sb. Fizika. Dokl. k XXIII Naux:hn. konferentsii Leningr. inzh.-stroit. in-ta. L., 1965, 54

TOPIC TAGS: photoresistance, lead oxide, dielectric breakdown, oscillation

ABSTRACT: Periodic oscillations of the <u>photocurrent</u> were observed in polycrystalline samples of PbO at constant illumination in a constant field  $E > 5 \times 10^2$  v/cm. The duration of the pulses was  $\leq 1.5 \times 10^{-7}$  sec. The repetition frequency was  $5 - 2.5 \times 10^2$  sec<sup>-1</sup>. It is proposed that the occurrence of the oscillations is connected with a redistribution of the charge in the surface traps. At fields  $10^3 - 10^4$  v/cm, light-induced breakdown is observed over the surface of the sample. [Translation of abstract]

SUB CODE: 20

Card 1/1 2C

USSR / Microbiology. Human and Animal Pathogens. Corynebacteria.

F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5613.

: Rubinshteyn, I. S.; Vilenchik, G. Y.; Kosman-Author

del', R. K.

: Not given.

: Laboratory Diagnosis of Diphtheria. Inst Title

Orig Pub: Zdravookhr. Belorussii, 1958, No 1, 53-54.

Abstract: The diphtheria bacillus has a characteristic appearance when examined under the phase-differen-

ce microscope. Instead of phase-contrast illumination, which is not available in all laboratories, the authors suggest the following method: from a 24-48 hour culture on Loffler's medium a drop is prepared in such a way that air bubbles appear under the cover glass. Bacterio-

Card 1/2

USCR / Microbiology. Human and Animal Pathogens. Corynebacteria.

F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5613.

Abstract: scopy is conducted using the oil immersion objective with closed-down diaphragm and lowered condenser. By this technique the diphtheria bacilli can usually be seen in the air bubbles without mixture with other organisms. The view is similar to the one observed in the phase-difference microscope, differences in the refraction of light in the liquid and in air giving an effect similar to that which appears in phase contrast. -- M. A. Gruzman.

Card 2/2

53

CIA-RDP86-00513R000825120012-0" APPROVED FOR RELEASE: 06/14/2000

05440 S07/120-59-3-12/46

Dmitriyev, A. B., Vorob'yev, M. G., Kosmarskaya, L.G. AUTHORS:

and Chipurenko, N. I.

TITLE: The Construction of Boron Ionization Chambers

(Konstruktsiya bornykh ionizatsionnykh kamer)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3,

pp 59-62 (USSR)

ABSTRACT: A description is given of the following ionization

chambers, all of which are designed to detect slow neutrons from the ionization due to the reaction

 $B^{10}(n,\alpha) \text{Li}^7$ : the KN series (filled with BF<sub>3</sub>), the KNT series (solid boron and argon gas) and the KNK series (compensated for the effect of the  $\gamma$ -background). 1) The KN-50 chamber. Fig 1 shows a photograph of

this chamber. The electrodes consist of four coaxial tubes, 12, 22, 32 and 42 mm in diameter, made from nickel foil, 0,1 mm thick, and in electrical contact

with each other. It is filled with BF<sub>3</sub> gas at 600 mm Hg, the working volume being 370 cm<sup>3</sup>. The<sup>3</sup>gas is obtained

from the reaction

Card 1/4

 $Ba(BF)_4 \longrightarrow 2BF_3 + BaF_2$ 

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The Construction of Boron Ionization Chambers

Fig 3 gives the volt-ampere characteristics of the chamber when the latter was irradiated in the reactor channel. The saturation current at 500 V is 0.045 µamp/cm<sup>3</sup>. 2) The KNT-52 chamber. This chamber is in the form of a two-electrode system placed in a hermetically sealed steel cylinder. The cylinder is filled with argon at a pressure of 6 atm. Each electrode (Fig 4) consists of 30 discs, 43 mm in diameter, placed parallel to each other. The discs have slots through which supports for electrodes of opposite sign can be inserted. The distance between the plates of opposite signs is 1.6 mm and the disc thickness is 0.4 mm. Boron is deposited on either side of each disc (except for the end discs), the total area covered in this way being 950 cm<sup>2</sup>. The insulation of the terminals at 300°C is 10° Ohms. Amorphous boron is used. The argon gas is 0.001% pure. The electrical characteristics of the chamber were described by Dmitriyev (Ref 3). The working voltage is 500 V and the working current 350 μamp. The absolute sensitivity of the chamber was found to be

Card 2/4

05441 SOV/120-59-3-12/46

The Construction of Boron Ionization Chambers

as the working gas. The nitrogen enables the breakdown voltage to be increased to 2 kV. The sensitivity of  $\gamma$ -radiation is found to be 3.4 x 10<sup>-13</sup> amp/r/hr, while the sensitivity to slow neutrons is 4 x 10<sup>-14</sup> amp/neutron/cm² sec. Yu. G. Nikolayev suggested the KNK-52 chamber. The KNK-52 is very similar to the KNK-53 except for the fact that the distribution of the boron and the compensating cells is asymmetric so that the sensitivity of the electrode system to  $\gamma$ -radiation depends on the geometry of the radiation field. There are 7 figures and 3 Soviet references.

SUBMITTED: April 4, 1958

Card 4/4

KOSMARSKAYA, Ye.N.

Reaction of brain nerve cells to prolonged stimuli increase from the peripheral receptors. Biul.eksp.biol.i med. 53 no.6:88-91 Je '62. (MIRA 15:10)

1. Iz otdela razvitiya mozga (zav. - deystvitel'nyy chlen AMN SSSR prof. B.N.Klosovskiy) Instituta pediatrii (dir. - deystvitel'nyy chlen AMN SSSR O.D.Sokolova-Ponomareva) AMN SSSR, Moskva. Predstavelna deystvitel'nym chlenom AMN SSSR O.D.Sokolovoy-Ponomarevoy.

(HRAIN-INNERVATION)

KOSMARS KAYA, Ye. N.; BALOSHOVA, Ye. G.

Peculiarities of the medulla oblongata blood supply. Vopr. neirokhir. 15 no. 6:50-56 Nov-Dec. 1951. (CIML 21:3)

1. Candidate Biological Sciences Kosmarskaya. 2. Of the Division for the Study of Brain Development (Head -- Prof. B. N. Klosovskiy), Order of the Red Banner of Labor Institute of Pediatrics (Director -- Prof. G. N. Speranskiy, Active Member of the Academy of Medical Sciences USSR.

KLOSOVSKIY, B.N.; KOSMARSKAYA, Ye.N.

New method of production of memia of the medulla oblongata. Fixiol. zh. SSSR 38 no.3:356-361 May. June 1952. (CLML 23:2)

1. Division for the Study of Brain Development of the Order of the Red Banner of Labor Institute of Pediatrics, Academy of Medical Sciences USSR, Moscow.

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825120012-0

- 1. KLOSOVSKIY, B. N., KOSMARSHAYA, E. N.
- 2. USSR (600)
- 4. Medulla Oblongata
- 7. Regulation of the activity of the vascular motor center in the medulla oblongata. B. N. Klosovskiy, E. N. Kosmakshaya. Zhur. nevr. i psikh. 53, No. 2, 1953.

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

#### KOSMARSKAYA, Ye.N.

entre de la presidente de la propieta de la presidente de la presidente de la presidente de la presidente de l

Problem of collateral cerebral blood supply. Zh. nevropat. psikhiat.,
Moskva 53 no.9:702-707 Sept 1953. (CLML 25:4)

1. Division for the Study of Brain Development of the Institute of Pediatrics, Academy of Medical Sciences USSR.

THE STREET STREET, WITH THE PROPERTY OF THE PR

KLOSOVSKIY, Boris Hikodimovich, professor, laureat Stalinskoy premii; KOSMARSKAYA, Ye.N., redaktor; SHASHKOVA, K.I., redaktor izdatelistva; ISLENT'YEVA, P.G., tekhnicheskiy redaktor.

[Physical development of a child's brain] Razvitie mosga rebenka.

Moskva, Izd-vo "Enanie," 1954. 47 p. (Vsesoiusnoe obshchestvo po
rasprostraneniiu politicheskikh i nauchnykh snanii, Ser. 3, no.33)

(MLRA 7:9)

 Chlen-korrespondent AMN SSSE (for Klosovskiy). (Brain)

# KOSMARSKAYA, Ye.N.

Effect of extrauterine life on the formation of the structures of the cerebellar cortex in premature infants. Pediatriia no.4: (MLRA 8:12) 28-35 J1-Ag '55.

1. Iz otdeleniya razvitiya mczga (zav.-chlen-korrespondent AME SSSR prof. B.N.Klosovskiy) Instituta pediatrii AMN SSSR (dir. prof. O.D.Sokolova--Ponomareva)

(CEREBELLAR CORTEX, physiology

in premature inf.)

(INFANT, PREMATURE,

cerebellar cortex develop. in)

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KOSMARSKAYA, Ye. N.
         KLOSOVSKIY, B.N.; KOSMARSKAYA, Ye.N.
                 Behavior of animals following total exclusion of visual,
                 auditory, olfactory and vestibular receptors at an early
                 age. Biul.eksp.biol. i med. 40 no.9:3-6 S '55 (MLRA 8:12)
                 1. Iz otdela izucheniya razvitiya mozga (rukovoditel'-
                 chlen-korrespondent AMN SSSR prof. B.N.Klosovskiy)
                 Instituta pediatrii (dir.-chlen-korrespondent AMN SSSR
                 O.D.Sokolova-Ponomareva) AMN SSSR Moskva.
                      (EYE, physiology,
                          eff. of excis. of visual, auditory, olfactory & vesti-
                          bular receptors in puppies on behavior in dogs)
                       (EARS, physiology,
                          emas)
                       (SMŒLL,
                           same)
                       (VESTIBULAR APPARATUS, physiology,
                           Bame)
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# KLOSOVSKIY, B.N.; KOSMARSKAYA, Ye.N.

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Gerebral changes following total exclusion of visual, auditory,
vestibular, and olfactory receptors during early stages of development.
                                                         (MIRA 9:11)
Zhur.vys.uerv. deiat. 6 no.3:443-450 My-Je 156.
1. Otdel razvitiya mozga Instituta pediatrii AMN SSSR
       (BRAIN, physiology,
           eff. of total exclusion of auditory, olfactory,
           vestibular & visual receptors (Rus))
       (HEARING, physiology,
           eff. of total exclusion of auditory, olfactory,
           vestibular & visual receptors on brain in animals (Rus))
       (SMELL, physiology
           same)
        (EQUILIBRIUM, physiology.
           same)
        (VISION, physiology,
            (emaa
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Method of total exclusion of visual, auditory, vestibular, and olfactory receptors. Fiziol. zhur. 42 no.2:242-244 F 156.

(MLRA 9:6)

1. Otdel razvitiya mozga Instituta pediatrii ANN SSSR, Moskva.

(VISION,

total exclusion of visual auditory, vestibular, & olfactory receptors in exper. animals (Rus))

(HEARING,

same)

(VESTIBULAR APPARATUS, surgery,

same)

(NERVES, OLFACTORY, surgery,

same)
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KOSMARSKAYA, YE N.

KOSMARSKAYA, Ye.N.

Effect of the conditions of intra-uterine life on the development of the cortex of the visual analysor (area 17) in premature infants. Pediatriia no.11:27-33 N \*57.

1. Iz otdeleniya razvitiya mozga (rukovoditel' - chlen-korrespondent AMN SSSR prof. B.N.Klosovskiy) Instituta pediatrii AMN SSSR (dir. chlen-korrespondent AMN SSSR prof. O.D.Sokolova-Ponomareva) (CEREBRAL CORTEX) (INFANTS (PREMATURE)) (OPTIC HERVE)

### KOSMARSKAYA, Ye.N. (Moskva)

Effects of the postnatal life of a premature infant on the development of the vascular network of the lateral ventricles of the brain [with summary in English, p.88]. Arkh.pat. 19 no.4:32-35 '57. (MLRA 10:6)

1. Iz otdela razvitiya mozga (rukovoditel'- chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. B.N.Klosovskiy) Instituta pediatrii Akademii meditsinskikh nauk SSSR (dir. - chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. O.D.Sokolova-Ponomareva).

(BRAIN, blood supply
eff. of postnatal life of premature inf. on develop.
of vasc. network of lateral ventricles (Rus))
(INFANT, PREMATURE, physiol.

eff. of postnatal life on develop. of wasc. network of lateral ventricles of brain (Rus))

USSR/Human and inimal Physiology. Thermoregulation

T-3

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65070

Author

; Kosmarskaya Ye.N. Purin V.ll.

Inst Title : The Change in the Temperature of the Brain and the Body

During Medically-Induced Sleep

Orig Pub : Fiziol. zh. SSSR, 1957, 43, No 1, 40-45

Abstract : One thermocouple was imbeded into the brain substance of an unanesthetized cat through an orifice drilled in the skull. A second thermocouple was placed on the surface of the brain or in the subarachnoid space. First a notation was made of the initial temperature of the brain substance, cerebrospinal fluid and body, and then a 3% solution of sodium amytal (60 mg/kg) was injected suboutaneously. Two types of change in the temperature of the brain substance were noted during barbiturate sleep, with a step-wise rise or fall in the temperature of the brain substance. In both cases the fluctuations in the temperature of the brain

Card

: 1/2

USSR/Human and Animal Physiology - Nervous System.

T-10

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 32115

receptors in adult cats led to deep carotid retardation broken only in the 1-2nd minute for unination and defecation.

Card 2/2

- 95 -

USSR/Human and Animal Physiology (Normal and Pathological)

The Effect of Physical Factors. Ionizing Irradiation

T

Abs Jour

: Ref Zhur Biol., No 6, 1959, 27198

lamina quadrigemina to anterior and posterior tubers was noted. With one and the same dose, the disturbance of B development was stronger the earlier was B irradiated. B of baby rat, irradiated on the day of birth and which survived for two weeks, approximately corresponded to B of normal, 6-day-old baby rat; the B of baby rat irradiated on the day of birth with the dose of 500 r on 33rd day corresponded to B of 7-9-day-old baby rat.

Card 2/2

KOSMARSKAYA, Ye. N. (Moskva, Movo-Kuznetskaya, d.20 kv.16)

Development of area 17 of the cerebral cortex in humans during the second half of intrauterine life [with summary in English]. Arkh.anat.gist. i embr. 35 no.2:30-38 Mr-Ap '58 (MIRA 11:5)

l. Otdel razvitiya mozga (rukovod. - chl.-korr. AMN SSSR prof.
B.N. Klosobskiy) Instituta pediatrii AMN SSSR.

(CEREBRAL CORTEX, anatomy & histology
area 17 develop. during second half of fetal life (Rus))

KOSMARSKAYA, Ye.N.; BARASHNEV, Yu.I.

Effect of a single roentgen irradiation on the growth of the cerebral capillaries [with summary in English]. Med.rad. 4 no.1:35-41 Ja 159. (MIRA 12:2)

1. Iz otdela razvitiya mozga (zav. - chlen-korrespondent AMN SSSR prof. B.N. Klosovskiy) Instituta pediatrii AMN SSSR.

(BRAIN, blood supply, capillaries, eff. of x-rays on postnatal develop. (Rus))

(ROENTGEN RAYS, effects, on brain capillaries postnatal develop. (Rus))

KLOSOVSKIY, B.N.; KOSHARSKAYA, Ye.N.

Changes in the nerve cells of the vasocapillary network in the brain of dogs deprived of vision, hearing, smell and vestibular stimulation in the early stages of development. Arkh.anat.gist. 1 embr. 37 no.8:12-23 Ag '59. (HIRA 12:11)

1. Otdel razvitiya mozga (zav. - chlen-korrespondent AMN SSSR prof.B.N.Klosovskiy) Instituta pediatrii AMN SSSR (Moskva, Ustinskiy proyezd, d.1/2, Institut pediatrii AMN SSSR, otdel razvitiya mozga).

(BRAIN blood supply) (SENSATION physiol)

KOSMARSKAYA, Yo.N.; BARASHNEV, Yu.I.

Development of the brain in animals irradiated with roentgen rays at various stages of extrauterine life. Pediatriia 37 no.11:33-37 N 159.

1. Iz laboratorii izucheniya mazvitiya mozga (zaveduyushchiy - chlenkorrespondent AMN SSSR prof. B.N. Klosovskiy) Instituta pediatrii AMN SSSR (direktor - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-(BRAIN radiation elfects)

KLOSOVSKIY, B.N. (Moskva, Begovaya ul., 11, kv.19) KOSMARSKAYA, Ye.N. (Moskva, Novokuznetskaya ul., 20, kv.16)

"Levelopment of the central nervous system," edited by S.A.Sarkisov and N.S.Preobrazhenskaia. Reviewed by B.N.Klosovskii, E.N.Kosmarskaia. Arkh.anat.gist.i embr. 39 no.11:116-119 N '60. (MIRA 14:5) (NERVOUS SYSTEM) (SARKISOV, S.A.) (PREOBRAZHENSKAIA, N.S.)

KOLOSOVSKIY, Boris Nikodimovich; KOSMARSKAYA, Yelena Nikolayevna; CHERNUKH, A.M., red.; ZUYEVA, N.K., tekhn. red.

[Active and inhibited state of the brain] Deiatel'noe i tormoznoe sostoianie mozga. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 410 p.. (MIRA 14:8)

KOSMARSKAYA, Yo.N. (Moskva, Novo-Kuznetskayı.) ul., 20, kv.16)

Effect of vestibular stimulation on mitotic cell division in external granular layer of the cerebellar contex in kittens and puppies. Arkh, anat. gist. i embr. 41 no.7:48-53 JL 61. (MirA 15:2)

1. Otdeleniye razvitiya mozga (zav. - chlen-korrespondent AMN SSSR prof. B.N.Klosovskiy) Instituta pediatrii AMN SSSR.

(CEREBELLUM) (KARMOKINESIS)

(VESTIBULAR APPARATUS)

L 22279-66 EWT(1) ACC NR: AR6005189 SOURCE CODE: UR/0058/65/000/009/G018/G013 Kosmarskiy, L. A.; Shkol'mikova, Z. I. AUTHORS: TITLE: On the formation of breakdown in vacuum SOURCE: Ref. zh. Fizika, Abs. 9G147 REF. SOURCE: Sb. Proboy dielektrikow i poluprovodnikov. M.-L., Energiya, 1964, 82-86 TOPIC TAGS: dielectric breakdown, vacuum, electric discharge, ionized plasma, glow discharge TRANSLATION: Results are presented of high speed photography of light phenomena accompanying the formation and flow of current during breakdown of plane-parallel vacuum millimeter-size gaps. The breakdown occurs in two stages. During the initial stage conditions are produced for the passage of large current (electron-ion exchange sets in). This stage is characterized by strong fluctuations of the Card 1/2

L 22279-66 ACC NR: AR6005189	
propagation of anode matter The interelectrode space is occupied by ionized vapor for vacuum gap with dark plasma	glow of the cathode. The second stage in the current) is characterized by in the form of desorbed gas and vapor. made up of two near-electrode regions, rom the corresponding electrodes, and a prossing of this gap by the anode
SUB CODE: 20	
사용 ( - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Card	2 nst
	current and by intermittent (stage of monotonic increase propagation of anode matter. The interelectrode space is occupied by ionized vapor frvacuum gap with dark plasma. down is connected with the omaterial. N. Olendzkaya.  SUB CODE: 20

<u>L 23691-66</u> EWT(1)/EWT(m)/ETC(f)/EWG(m)/T DS
ACC NR: AR6005198 SOURCE CODE: UR/0058/65/000/009/D029/D029
AUTHORS: Kosmarskiy, L. A.: Shkolinikova Z T
TITLE: Concerning radiation occurring during breakdown in vacuum
SOURCE: Ref. zh. Fizika, Abs. 9D234
REF. SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. ML., Energiya, 1964, 86-90
TOPIC TAGS: vacuum, dielectric breakdown, electric discharge radiation, electric discharge, electrode
TRANSLATION: On the basis of analysis of the spectrograms of an aperiodic controlled breakdown of vacuum gaps at residual-gas
pressure 10 <sup>-5</sup> mm Hg, and microphotographs of the surfaces of the electrodes, it has been found that in order for the breakdown current to flow, it is necessary for the anode material to evaporate. Pairs of electrodes made of Fe, Mo, Ta, Ni, and Cu were investigated in
<b>V</b>

L 23691-66 ACC NR: AR6005198
pairs at voltage 4.5 kev and gaps of 2 mm. Ignition was with the aid of an auxiliary electrode. It was found that the temperature of the discharge varies in proportion to the change in current (voltage). The density of the current at which one cathode spot can be passed in the vacuum breakdown is characteristic of arc discharge
and amounts to approximately 10 <sup>5</sup> a/cm <sup>2</sup> . Bibliography, 11 titles. >
SUB CODE: 20
Card 2/2 N

10 m

# L 29553-66 EWT(1)/EWP(e)/EWT(m)/ETC(f)/T DS/WH

ACC NR: AR6004652

SOURCE CODE: UR/0275/65/000/010/A026/A026

NAME OF THE PROPERTY OF THE PR

AUTHOR: Kosmarskiy, L. A.; Shkol'nikova, Z. I.

40 B

TITLE: Problem of radiation during a breakdown in vacuum

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 10A184

REF SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. M.-L., Energiya, 1964, 86-90

TOPIC TAGS: electric breakdown, vacuum breakdown

ABSTRACT: An analysis of spectrograms of an aperiodic controlled breakdown of millimeter vacuum gaps at 10<sup>-5</sup> torr and an examination of microphotographs of the electrodes involved permit to conclude that the anode-material vapor is necessary for the breakdown-current flow. The discharge spectra were investigated by an ISP-28 with quartz optics. Electrode pairs made from Fe, Mo, Ta, Ni, Cu were investigated. The breakdown conditions: anode voltage, 4.5 kv; anode-cathode distance, 2 mm. The discharge was fired by means of an axiliary electrode. Microphotographs of the working areas of the anode and cathode are shown. It is found that the discharge temperature is proportional to the variation of current (voltage). The current density of one cathode spot, in the vacuum breakdown, reveals an arc-type discharge; the density is about 10<sup>5</sup> amp/cm<sup>2</sup>. Four figures. Bibliography of 11 titles.

N. O. [Translation of abstract]

SUB CODE: 09 Card 1/1

UDC: 537.525

SOV/120-58-5-13/32

AUTHORS: Brish, A.A., Dmitriyev, A.B., Kosmarskiy, L.N., Sachkov, Yu.N., Sbitnev, Ye.A., Kheyfets, A.B., Tsitsiashvili, S.S., and Eyg, L.S.

TITLE: A Vacuum Spark Switch (Vakuumnyye iskrovyye rele)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 5, pp 53-58 (USSR)

ABSTRACT: The device consists of an evacuated glass envelope which contains 3 electrodes (see the general diagram of Fig.1). The principal discharge gap comprises a complex cathode consisting of two electrodes which form an auxiliary discharge gap. The two cathode electrodes are separated by means of a fine mica plate; when a triggering pulse is applied, a discharge is formed on the surface of the mica. Fig.2 shows 6 alternative solutions of the electrode systems of vacuum spark switches. Fig.3 shows photographs of actual switches (tubes 4, 5, 6 and 7) and photographs of 3 thyratrons (tubes 1, 2 and 3) for the purpose of comparison. The basic parameter of a switch is its anode voltage Vac, its operating current I and its triggering breakdown voltage Vac. The anode operating voltages up to 20 kV could be ard 1/3 obtained with a discharge gap of 1 mm. The values of the

30V/120-58-5-13/32

A Vacuum Spark Switch

discharge current are determined primarily by the external parameters of the circuit in which the switch is employed. The currents can be very high since the tube is "extinguished" at a current of about 20 A. The energy required for the initiation of the main-gap breakdown is very small. Thus the switch can be triggered by the energy stored in a capacitance of about 5 \( \mu\_1 \), but the triggering voltage should be at least 1500 V. The switch is subject to some time delays. The overall delay is T = t<sub>1</sub> + t<sub>2</sub> + t<sub>3</sub>, where t<sub>1</sub> is the time between the commencement of the triggering pulse and the inception of the trigger gap discharge; t<sub>2</sub> is the time lag between the commencement of the auxiliary discharge and the inception of the main-gap discharge, and t<sub>3</sub> is the formative time of the main gap discharge. These time delays are illustrated graphically in Fig.4. In actual tubes the formative times of the main discharge were of the order of 0.03 \( \mu\_5 \). The electrical characteristics of a spark

SOV/120-58-5-13/32

A Vacuum Spark Switch

switch are affected by the number of switchings performed. This is illustrated in Fig.11, which shows the ignition voltage of the auxiliary gap as a function of the number of switchings N : it is seen that the voltage decreases with N . The paper contains 11 figures and no references.

SUBMITTED: November 15, 1957.

Card 3/3

I. 28506-66 EWT(1)/EWT(m)/ETC(f)/EWG(m)/T DS

ACC NR: AR6004651

SOURCE CODE: UR/0275/65/000/010/A025/A025

AND SECTION OF STREET PROPERTY AND SECURISH SECTION OF SECTION OF SECTION SECT

AUTHOR: Kosmarskiy, L. N.; Shkol'nikova, Z. I.

50

TITLE: Formation of breakdown in vacuum

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 10A180

REF SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. M.-L., Energiya, 1964, 82-86

TOPIC TAGS: vacuum breakdown voltage, electric breakdown, electroceum, electric discharge, electric current, cathodoluminescence, electrode
ABSTRACT: The results are presented of high speed-photographing the luminous phenomena that accompany the formation of and current flow in the breakdown of flat-parallel millimeter gaps in vacuum. The formation of such a vacuum breakdown has two stages. In the initial stage, conditions are created for passing a heavy current (electron-ion exchange). This stage is characterized by wide current variations and by intermittent cathode luminescence. The second stage of a monotonous current buildup is characterized by propagation of anode desorbed gas and vapor. The rate of motion of this substance determines the rate of current buildup. Two near-electrode regions, in the interelectrode space, are occupied with the ionized electrode vapor; the vacuum gap contains a dark plasma. The complete breakdown formation takes place when the anode material occupies the entire discharge gap. Six figures. Bibliography of 1 title.

N. O. [Translation of abstract].

SUB CODE: 09 Card 1/1 A A

UDC: 537.525

KADLUBOWSKI, R.; KOSMAŢKA, S.

Activity of liver succinic dehydrogenase in experimental poisoning with aniline, p-aminophenol, p-phenyldiamine and chlorodinitrobensene. Acta physiol.polon. 11 no.5/6:752-753 '60.

1. Z Katedry Biologii i Paras; tologii Lekarskiej A.M. w Lodzi Kierownik: doc.dr R.Kadlubowski.

(ANILINE COMPOUNDS (oxicol)
(PHENOLS to icol)
(NITROBENZENES toxicol)
(DEHYDROGENASES metab)
(LIVER metab)

# KADIUBOWSKI,R.; KOSMATKA,S.

On the effect of anthelmintic drugs on succinic dehydrogenase in Ascaris lumbricoides L. Acta physiol.polon. 11 no.5/6: 753-754 '60.

1. Z Katedry Biologii i Parasykologii Lekarskiej A.M.w Lodsi Kierownik; doc.dr R.Kadlubowski. (DEHYDROGENASES metab) (ANTHELMINTICS pharmacol) (ASCARIS metab)

KADLUBOWSKI, R.; KOSMATKA, S.; CHYZINSHA, U.

The effect of anthelmintics on succinic dehydrogenase activity of Fasciola hepatica L. in vitro. Wiadomosci parazyt. 7 no.2:351-353 161.

1. Katedra Biologii i Parazytologii Lekarskiej Akademii Medycznej, Lodz.

(SUCCINIC DEHYDROGENASE pharmacol)
(FASCIOLA HEPATICA pharmacol)
(ANTHELMINTICS pharmacol)

Narrow-gauge railroad ties of prestressed concrete. Torf.prom.		
34 no.5:12-14 '57.	(NIRA 10:10)	
1. Gosudarstvennyy institut promyshlennosti.	po proyektirovaniyu zavodov torfyanoy	
(Prestressed concrete)	(RailroadsTies, Concrete)	

KOSMATOW; L., prof., zasluzhennyy deyateil iskusstv RSFSR.

"Techniques and art of photography." by F. Dyko, E.Iofis.
Reviewed by L.Kosmatov. Sov. foto 21 no.2:39 F '61.

(Photography) (Dyko, F.) (Iofis, Ye)

LYUBIMOV, Ye.I.; KOSMATOV, N.V.

į.

Preserving the emulsion layer of films. Patent U.S.S.R. 77,395, Dec. 31, 1949. (CA 47 no.19:9834 153)

KOSMATOU, N.V.

TOKAREV, F.V., isobretatel', Geroy Sotsialisticheskogo Truda; SMIRNOV, I.V., isobretatel' v oblasti stroymaterialov; POKROVSKIY, G.I., professor, do'ctor tekhnicheskikh nauk; SHIRKOV, I.P., novator stroitel'noy industrii; CHIKIREV, N.S., novator; KOTOVA, S.A., novator, brigadir pryadil'shchits; LOGIN, M.I., isobretatel', inshener; SLIVOCHKIN, P.P., ratsionalisator; MERKULOV, I.A., isobretatel', konstruktor dvigateley; KOSMATOV, N.V., isobretatel' v oblasti kino; KHLEBTSEVICH, Yu.S., isobretatel', kandidat tekhnicheskikh nauk; SHCHADILOV, V.I., ratsionalisator-naladchik.

"Inventor" has a pround ring to it! Tekh. mol. 25 no.3:1-3 Mr '57. (MIRA 10:6)

1. Deputat Verkhovnogo Soveta SSSR (for Shirkov). 2. Nachal'nik tsekha zavoda imeni Sergo Ordzhonikidze (for Chikirev). 3. Fabrika imeni Kalinina (for Kotova). 4. Termitnostrelochnyy zavod (for Login). 5. Zavod "Kauchuk" (for Slivochkin).

(Inventions)

**建建筑的建筑的建筑的建筑的建筑的建筑的设备的建筑的设备是现代建筑的设备的 医埃里氏病 化邻环基苯基甲基苯甲基苯甲基甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基** 

### KOSMATTY, A.S.

Aerophagy simulating acute abdomen; abstract. A.S. Kosmatyi, Khirurgiia 34 no. 12:05 7 158. (MIRA 12:1)

1. Iz khirurgicheskogo otdeleniya Intinskoy gerodskoy bol'nitsy.
(AEROPHAGY)

KOSMATYY, A.S. (Inta, Komi ASSR, ul. Sotsialisticheskaya, d.10, kv.5)

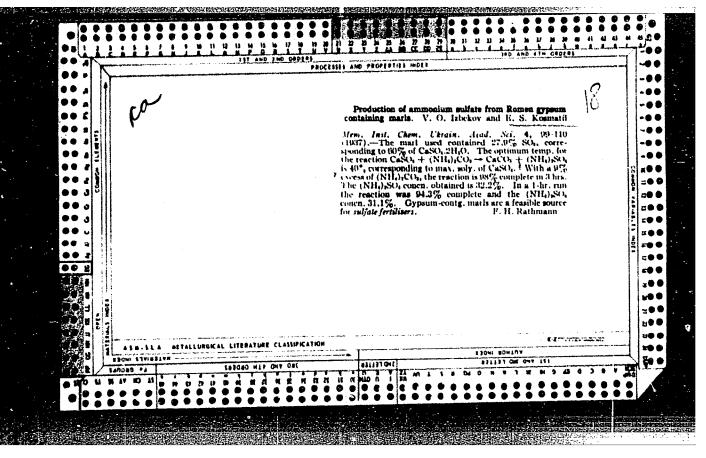
是一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们就是一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没有一个人,我们也没

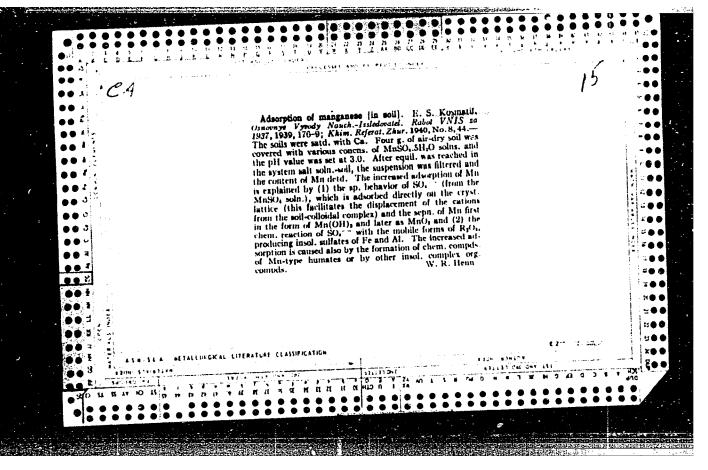
Treatment of varicose veins of the lower extremities by A.N. Khrustalev's method. Nov.khir.arkh. no.5:105-106 S-0 '59.

(MIRA 13:3)

1. Khirurgicheskoye otdeleniye Intinskoy gorodskoy bol'nitsy Komi ASSR:

(EXTREMITIES, LOWER-DISEASES) (VARIX)

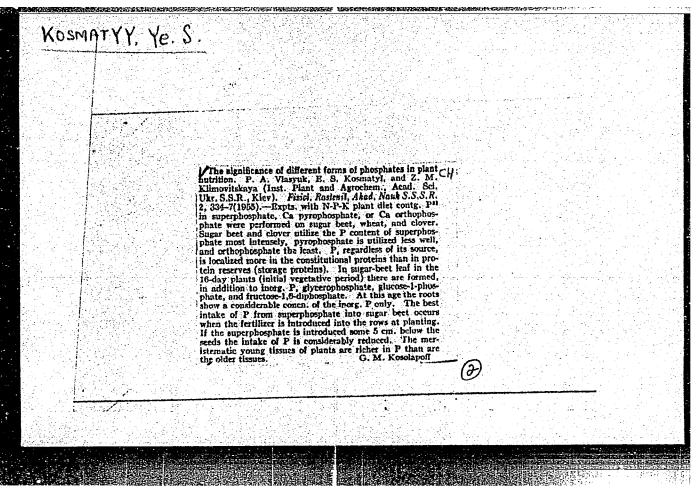


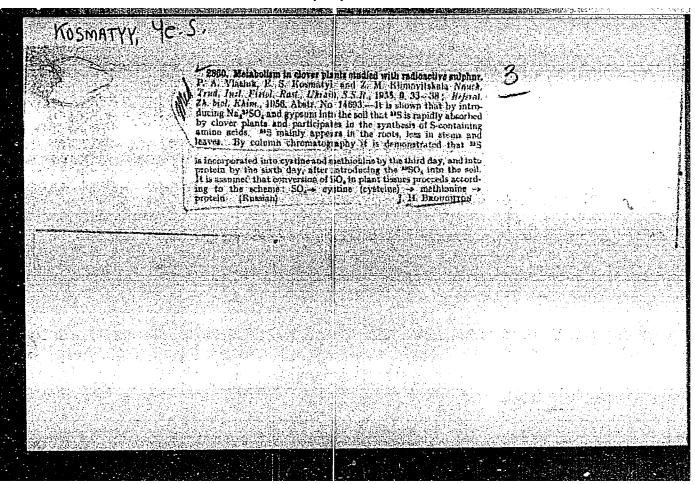


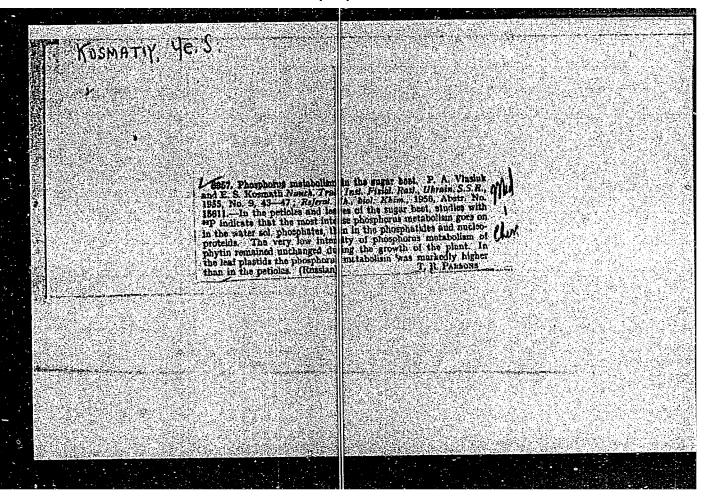
VIASTUK, P.A.; KOSMATIT, E.S.; ELIHOVITS'EA, Z.M.

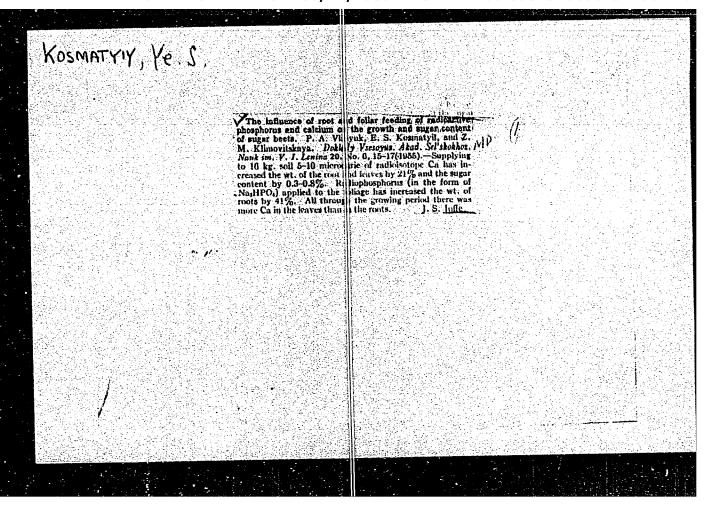
Application of radioactive tracers in improving the system of plant nutrition conditions. Visnyk AH URSR 25 no.11:43-53
N '54.

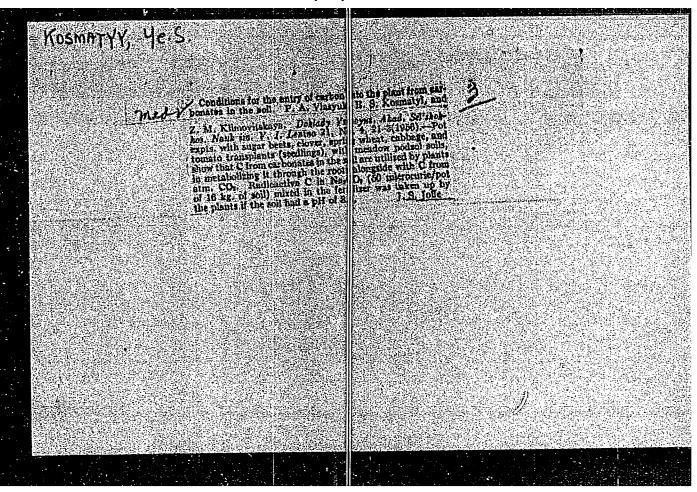
(Flants--Nutrition)(Radioactive tracers)

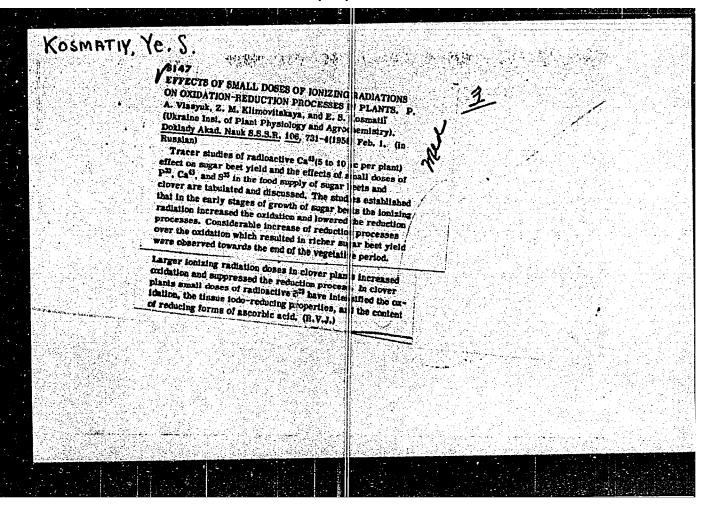












USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour

: Ref Lhur - Biol., No 23, 1953, 104360

Author

: Vlasyuk, P.A., Kosmatyv, Ye.S., and Klimovitskaya, S.M.

Inst

: Institute of Plant Physiology and Agrochemistry, AS

Ultrainian SSR.

Title

: The Effect of Nitrato-Ammoniacal, Nitrogenous and Hanga-

nous Mutrition on Sulfur Metabolism in the Sugar Beet.

Orig Pub

: Fiziol. Rasteniy, 4, No 5, 432-439, 1957.

Abstract

: Under conditions of a soil culture and a NPK background, with respect to the sugar beet and wheat, it was established through introducing Na<sub>2</sub>S350<sub>h</sub> (50 curies per 16 kg of soil) that, in contrast with P, more S enters into reserve proteins than into the constitutional proteins. Injection into the roots of the sugar beet of aqueous solutions of methionine or vatamin b<sub>1</sub> containing S35 caused

Card 1/3

- 8 -

USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour : Ref Ahur - Biol., No 23, 1950, 104360

an intensive translocation of S into leaves, especially the younger leaves, in which connection a major part of S was also included in the reserve proteins. The rate of S metabolism (as determined according to its specific activity and the number of the individual forms of 3) from methionine was higher than from vitamin B1, especially with respect to the easily detached S fraction (by Shul'ts' method). A larger quantity of S entered into orcanic compounds than into mineral compounds. Compare. with ammoniacal nutrition, the nitrate nutrition of the sugar beet favored an increase in the rate of S metabolism. Under the influence of hin the rate of metabolism of the inorganic form of 9 changed little, while that of the organic and not easily detachable form of S decreased more so at nitrate nutrition than at ammoniacal nutrition. By means of the paper chromatography method it was established that the amino acid composition of the root

Card 2/3

## APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825120012-0"

USSR/Plant Physiology - Mineral Nutrition.

I.

Abs Jour : Ref Zhur - Biol., No 23, 1950, 104360

system of young plants is more variegated (which attests to the participation of roots in the synthesis of amino acids), and also that composition remains unchanged at different forms of nitrogen nutrition, and that the number of amino acids decreases at inadequate nutrition. A maximal quantity of S was utilized for the synthesis of cystine, the quantity of which is directly related to the extent of admission of S into the plant. The study was executed in the Institute of Plant Physiology and Agrochemistry, Academy of Sciences Ukrainian SSR. -- B.Ye. Kravtsova.

Card 3/3

VLASYUK, Petr Antipovich, akademik; KOSMATYY, Yevdokim Stepanovich, kand, khim, nauk; DMITRENKO, P.A., otv.red.; SKOL! ZNEVA, Ye.A., red.; MANOYLO, Z.T., khudosh, -tekhn, red.

[Tagged atom method in agricultural physiology] Metod mechanykh atomov v agrofiziologii. Kiev, Izd-vo Ukrainskoi akad.sel'khoz. nauk, 1959. 326 p. (MIRA 13:5)

1. Vsesoyuznaya akademiya sel'skokhozyayatvennykh nauk imeni V.I. Lenina; AN USSR; Ukrainskaya Akademiya sel'skokhozyayatvennykh nauk (for Vlasyuk). 2. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyayatvennykh nauk (for Dmitrenko).

(Tracers (Biology)) (Plant physiology-Research)

KOSMATYY, Ye.S.; SHLYAPAK, S.I.

New chromatopolarographic method for determining DDT in food products. Vop. pit. 22 no.5:83-89 S-0 '63.

(MIRA 17:1)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta mashchity rasteniy, Kiyev.

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CIA-RDP86-00513R000825120012-0

SOURCE CODE: UR/0394/66/004/004/0064/0067 L 33051-66 EWT(1) ACC NR: AP6024123 .AUTHOR: Kosmatyy, Ye. S.; Mironova, I. B.; Bugayenko, L. T.  $\mathcal{Z}$ ORG: Ukrainian Scientific Research Institute of Plant Protection (Ukrainskiy nauchno-issledovatel'skiy institut zashchity rasteniy) TITLE: Chromatopolarographic and polarographic determination of chlorophos in plants SOURCE: Khimiya v sel'skom khozyaystve, v. 4, no. 4, 1966, 64-67 TOPIC TAGS: polarograph, paper chromatography, polarographic analysis, plant physiology, biochemistry/SGM-8 polarograph To provide a method for studying the input and distribution of chlorophos in different organs of plants and also to establish its ABSTRACT: retentiveness in plants a method was developed for the qualitative and quantitative determination of chlorophos residues in fruits and vegetables quantitative determination of entorophos residues in fittee and vegetation quantitative determination of entorophos. The chromatographic process using paper chromatography and polarography. The chromatographic process lasts 4-5 hours. The R. value for chlorophos is 0.14 and for 0,0-dimethyllasts 4-5 hours. The R. value for chlorophos is 0.14 and for 0,0-dimethyllasts 4-5 hours. The R. value for chlorophos is 0.14 and for 0,0-dimethyllasts 4-5 hours. The R. value for chlorophos is 0.14 and for 0,0-dimethyllasts 4-5 hours. is 0.76. Identical values were obtained using n-hexane saturated with methane, or petroleum ether saturated with methane as eluent. The reaction involving DDVP in a basic medium with resorcinal to form a red color was used to develop the paper chromatograms of both DDVP and chlorophos. It UDC: 543.253/544.632.95 1/2

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507/78-4-6-22/44

5(4) AUTHORS:

Golub, A. M., Kosmatyy, Yu. V.

TITLE:

The Potentiometric Investigation of Lead Selenium Cyanates (Potentsiometricheskoye issledovaniye selenotsianatov svintsa)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1347-1351

(USSR)

ABSTRACT:

The lead selenium cyanate complexes were investigated in aqueous and mixed solutions. The potentiometric method was used for the determination of the stability and composition of these complexes. The composition of the complex is not changed in aqueous solution in the case of constant and changing ionic concentration of the solution. The complex has the composition

Pb(CNSe) $_6^{4-}$ . The dissociation constant, the complex formation

reaction, and the thermal effect of this complex were detected at 20° and 30°. The dependence of the  $\frac{[Pb(CNSe)_x]}{[-.2+]}$ 

on the log [CNSe] in the aqueous solution is given in figure 1. The influence of the solvent on the formation of the

Card 1/2

lead selenium cyanate complexes was investigated and the results

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The Potentiometric Investigation of Lead Selenium Cyanates

of the mixed solutions are given in the tables 2 and 3. It was found that the stability of the complex is increased by the addition of acetone. The increase of the acetone concentration complicates the composition of the complex. It is possible that the complex  $Pb(CNSe)_{8}^{6-}$  is formed by a higher

acetone concentration. The dependence of the

 $\log \frac{\left[Pb(CNSe)_{x}\right]}{\left[Pb^{2+}\right]}$  on  $\log \left[CNSe^{-}\right]$  in the mixed aqueous-acetone

solution was investigated at 20° and given in figure 2. There are 2 figures, 3 tables, and 7 references, 5 of which are Soviet.

ASSOCIATION: Kiyevskiy gosudarstvannyy universitet im. T. G. Shevchenko

(Kiyev State University imeni T. G. Shevchenko). Kafedra ne-

organicheskoy khimii (Chair of Inorganic Chemistry)

SUBMITTED: March 25, 1958

Card 2/2

DELIMARSKIY, Yu.K.; PAVLENKO, I.G.; KOSMATYY, Yu.Ye.

Electrolytic refining of zinc in fused silicate electrolytes. Zhur.

prikl. khim. 33 no.8:1840-1843 Ag '60. (MIRA 13:9)

(Zinc) (Silicates) (Electrolysis)

DELIMARSKIY, Yu.K. [Delimars kyi, NU.K.], akademik; KOSMATYY, Yu.Ye. [Kosmatyi, IU.IE.]; KOLOTIY, A.A.

Platinum and platinum-glass reference electrodes for silicatechloride and chloride melts. Dop. AN URSR no.9:1192-1194 '64. (MIRA 17:11)

1. AN UkrSSR (for Delimanskiy).

D. 32079-65 EWI(m)/EWP(t)/EWP(b)/EWI(h).

ACCESSION MR: AF5006088 S/G

AUTHOR: Delimarskiy, Tu, K; Rosmatyy, N.

TITLE: Anode yield in relation to current sliticate-chloride melt

SOURCE: Ukrainskiy thimicheskiy bhurmal;

TOPIC TAGS: Electrolytic refining, lead sliticate chloride electrolytic, lead refining silicate chloride electrolyte, lead refining of lead in this melt. The lassolution of lead in corundum illustrated. High current densities were monate as the anode at 6000 in a corundum illustrated. High current densities were lating semi-manufacturing conditions. I exceeded the theoretical yield calculate (0.9218-2.0321 amps/cm²), simulaiting semi-manufacturing conditions. I exceeded simultaneously with anode dissolution according to the equation Pb+Pb ...

Cord 1/2

to the current and subsequently the increasing current density, the provalue of the mean valence decreased in its oxide and chloride, represent	prop porti Th ting used a 155	unt of lead auro-dissolution in relation rtions of uni- and bivalent lead. With n of univalent ions increased, and the s was explained by dissolution of lead dditive chemical and electrochemical proin these experiments significantly in- 197 with respect to the current. Orig. as,
ASSOCIATION: Institut obshchey i rorganic chemistry instituts, AN Ucr	95 (SE)	icheskoy khimii AN Ucr8SR(General and in-
SUBMITTED: 10Mar64	E E	II: 00 SUB CODE: IC, MA
NO REF SOV: 016	oī	BR: 000
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P. 19. (ODZIEZ) (Lodz, Poland) Vol. 9, no. 1, Jan. 1958

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(OMENTUM, diseases, prolapse, traum.)

(ABDOMEN, wounds and injuries, causing prolapse of omentum)

(HIGRAX, wounds and injuries, causing prolapse of omentum)

(WOUNDS AND INJURIES, thoraco-abdom., with prolapse of omentum)
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	International symposium on macromolecular chemistry. Moscow, 1960.  Methdunarodnyy simpozium po makromolekulyamoy khimil SSSR, Meskra, 14-18 lyunya 1960 g.; gokildy lattoricenty.	Chemistry Haid in Moncow, June 14-15, 1960; Papers and Summaries) Section III. [Moncow, Izd-vo AM SSSR, 1960] 469 p. 55,000 copies printed.  Tech. Ed.: P. S. Kashina.  Sponsoring Agency: The International Union of Pure and Applied	Chemistry. Commission on Macromolecular Chemistry.  FURPGSE: This book is intended for chemists interested in polymerization reactions and the synthesis of high molecular compounds.	GURLAGE: This is Section III of a multivolume work contain- ing papers on ancronolated the chemistry. The articles in general deal with the kinetion of polymerization rections, the synthesis of special-purpose polymers, eg., ion ex- change resins, sentconductor materials, etc., asthods of cat- atting polymerization reactions, properties and chemical interactions of high molecular materials, and the effects of which molecular compounds. No personalities are mentioned. Mergences given follow the articles. Thanol-Pormalchyde Realme (Poland). Chloribation of Phanol-Pormalchyde Realme.	Alexandri, L./M. Opris, and A. Giocanel (Ruzania). Opensethil and Aminopropyl Ethers of Polyvinyl Alcohol 34	Takubowich, A. Ti. Tiret waters, M. I. Kinstenticory, Te. M. Ordenan, M. I. Tiret waters, and M. I. Sofores, Urssay.  Shady of the cheated Conversions of Polycarbonstes  Donation in Chemical Internation and E. M. Balancas (USSR).  Chemical Internation and Mechanism of the Asily writing Action  Chemical Internation and Mechanism of the Asily writing Action  Of Double Systems of Pulcohization Accelerators  Pinguaz I. M. A. Purob Yeas, Q. A. Shirkars, and M. P.  Alcohol.	Wolksher, Z. /Z. Holly, and O. Thurzó (Hungary). The Inter- action of Areastic Amines and Polyvinyl Chlorids  Qenderith, M. A., B. K. Davydov, R. A. Krentsel, J. K. Kus-	Ignation, 1.7. Foliat, A. V. 1090in.yev, and A. 17. 1022 into the USAN). The Production of Folymeric Agrerials Anich Exhibit Semiconductor Properties  Hikes, J. A., and L. J. Kovíce (Hungary), Chemical Properties of Bipolar Ion-Exchange Resins	Anthek T. I., and J. Morawiec (Poland). Effect of the Structure of Organio Anino Compounds on the Properties of Anion Relating Results From Polystyrene Saldade. I. W. (1938). The Problem of the Effect of the Structure of Ionitus on Ion-Exchange Processes Between 107	Perlin, A. A., B. I. Liceron'kiy, and W. P. Parini (USSR). Froduction and Properties of Some Aromatic Polymers Trostyanskays, Ye. V. I. P. Lossey, A. S. Teving, S. B. Estanta, A. Z. Netedova, and Turn Hasten-box (USCR). Chemical Conversions of Endluble Copolymers of Styrene Lididena, J. (Poland). Thermal Stability of Strongly Basic 186 #O	
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1. Z I Kliniki Chorob Wewnetrznych Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: doc. dr. med. Karol Gregorczyk) i z Zakladu Biologii Pomorskie! Akademii Medycznej w Szczecinie (Kireownik: prof. dr. Stanisalw Zajaczek).

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