

S 70 35/61/000/006/030/044
0001 3101

7/15/61

ABSTRACT: 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) mμ. 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.
BIBLIOGRAPHY: Baumbach, Vladimir. *Astronomicheskiye issledovaniya*, no. 10, 1961, p. 10-11. Abstract 6A426. (Pechatnyiye Astronomicheskiye Nauchnyye Raboty, no. 1, 1961, no. 10, 10 - 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) mμ. 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.
V. Yesipov

13

[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 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.

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.

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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.; PLIZHIKOV, V.Kh., V.Kh.

Observations of lunar occultations of stars at the Khar'kov
Astronomical Observatory in 1957, Astron. tsif. no. 199:25
150.

(HWA 11.0)

Наблюдения лунных затмений звезд в Харьковском
астрономическом observatory в 1957 г.
(Observations)

YEZERSKIY, V.I.; PIUZHNIKOV, V.Kh.; CHAYKOVSKIY, E.F.

Observation of artificial earth satellites at the Kharkov
Station. Biul.sta.opt.nabl.isk.sput.Zem. no.8:15-16
'59. (MIRA 13:6)

1. Khar'kovskaya stantsiya nablyudeniya ikusstvennykh
sputnikov Zemli. (Artificial satellites--Tracking)

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 [α , δ (1950.0)] and the list of the fundamental stars are presented. ✓c

[Abstracter's note: Complete translation]

Card 1/1

KUZMENKO, K.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)

S/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 Star Occultations by the 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/i

LOGVINENKO, A.A.; PLUZHNIKOV, V.Kh.; PANOVA, G.V.; SYSHCHENKO, T.Ye.;
FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V., nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites.
Biul.sta.opt.nabl.isk.sput.Zem. no.11:20-28 '60. (MIRA 14:12)

1. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli
No.031 (for Logvinenko). 2. Nachal'nik stantsii nablyudeniya iskus-
stvennykh sputnikov Zemli No.60 (for Pluzhnikov). 3. Glavnaya
(Pulkovskaya) astronomicheskaya observatoriya AN SSSR (for Panova,
Syshchenko, Firago, Shchegolev). 4. Astronomicheskaya observatoriya
Ural'skogo gosudarstvennogo universiteta (for Nevel'skiy).
(Artificial satellites--Optical observations)
(Astronomical photography)

KUZ'MENKO, K.M.; 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)

KUZ'NENKO, K.N.; PLUZHENIKOV, 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)

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

Lunar occultations of stars observed at the Kharkov Observatory in
1959. Astron. tsir. no.208:29-30 Ja '60. (MIRA 13:11)
(Occultations)

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

Observations of lunar occultations of stars at the Khar'kov 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)

PLUZHNIKOV, V.Kh.; SINCHESKUL, B.F.; CHAYKOVSKIY, E.F.

Determining the individual error of the observer in evaluating
the passing of an artificial earth satellite through the AT
thread. TSir.Astron.obser.Khar.un. no.24:33-35 no.24:33-35
'61. (MIRA 15:3)

(Artificial satellites--Tracking)

CHERVYAKOVA, A.F.; PLUZHNIKOV, V.Kh.; GORELOV, Ya.P.; SHERBAUM, L.M.;
KRYLOV, A.G.; SENTSOVA, Yu.Ye.; KHARIN, B.T.

Results of photographic observations of artificial satellites.
Biul.sta.opt.nabl. isk.sput.Zem. no.25:23-28 '62. (MIRA 15:7)

1. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Instituta astrofiziki AN Turkmenskoy SSR (for Chervyakova).
 2. Nachal'nik Khar'kovskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Pluzhnikov).
 3. Nachal'nik stantsii nablyudeny iskusstvennykh sputnikov Zemli Gosudarstvennogo astronomicheskogo instituta im. P.K.Shternberga (for Gorelov).
 4. Astronomicheskaya observatoriya Kiyevskogo universiteta (for Sherbaum).
 5. Stantsiya Astronomicheskogo soveta AN SSSR (for Krylov, Sentsova).
 6. Nachal'nik Tomskoy stantsii opticheskikh nablyudeny iskusstvennykh sputnikov Zemli (for Kharin).
- (Artificial satellites—Tracking)

BRATIYCHUK, M.V.; BELENKO, V.I.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.;
YUREVICH, V.; TUMANYAN, B.Ye.; KHARIN, B.T.; CHERVYAKOVA, A.F.;
BERUCHKA, Yu.I.; PLUZHNIKOV, V.Kh.; SHILKINA, Z.A.

Results of photographic observations of artificial satellites.
Biul.sta.opt.nabl.isk.sput.Zem. no.28:16-30 '62,

(MIRA 15:12)

1. Nachal'nik Uzhgorodskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Bratiychuk). Stantsiya Astronomicheskogo soveta AN SSSR (for Belenko, Krylov, Sentsova, Yurevich, Shilkina).
 3. Nachal'nik Yerevanskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Tumanyan).
 4. Nachal'nik Stantsii nablyudeniya iskusstvennykh sputnikov Zemli pri Tomskom gosudarstvennom universitet (for Kharin).
 5. Nachal'nik stantsii No.074, Instituta astrofiziki AN Turkmenskoy SSR (for Chervyakova).
 6. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Astronomicheskoy observatorii Khar'kovskogo universiteta (for Pluzhnikov).
- (Artificial satellites--Tracking)

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)

PYASKOVSKIY, Dmitriy Vladimirovich; YAKOVKIN, A.A., retsenzent;
PLUZHNIKOV, V.Kh., dots., retsenzent; KOSTIENKO, Yu.I., red.

[Course of spherical astronomy] Kurs sfericheskoi astronomii.
Kiev, Izd-vo Kievskogo univ., 1964. 135 p. (MIRA 17:5)

1. Chlen-korrespondent AN Ukr.SSR(for Yakovkin).

I. 7842-66 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/EPA(w)-2/EWP(j)/T/EWP(t)/EWP(b)
ACC NR: AP5028134 EWA(h)/EWA(c) IJP(c) SOURCE CODE: UR/0048/65/029/011/2113/2115
JD/EM/WH

AUTHOR: Pluzhnikov, V. M.; Amirkhanov, Kh. Kh.; Semenov, V. S.

ORG: none

TITLE: Polarization of ferroelectrics under the combined influence of static and alternating electric fields /Report, Fourth All-Union Conference on Ferro-electricity held at Rostov-on-the Don 12-16 September 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2113-2115

TOPIC TAGS: ferroelectric material, ceramic material, single crystal, dielectric constant, nonlinear effect, harmonic analysis, electric field, dielectric amplifier, harmonic oscillator

ABSTRACT: Capacitors with dielectrics of VK-4M Varikond ferroelectric ceramic, mono-crystalline lamellar bismuth titanate, or triglycine sulfate were excited at 50 cycle/sec in the presence of a dc bias up to 200 V and the currents through them were analyzed with a harmonic analyzer. The results are presented as curves showing the amplitudes of various harmonics of the current (up to the ninth) as functions of the applied ac voltage for different values of the dc bias. The three materials gave qualitatively similar results, the nonlinearity being greatest for triglycine sulfate. With zero dc bias no even harmonics of the current were present and the amplitudes of

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ACC NR: AP5028134

the odd harmonics increased monotonically toward saturation with increasing ac voltage. The lamellar bismuth titanate produced strong high harmonics and this material may find application in the design of frequency multipliers. Application of a dc bias caused the appearance of even harmonics, shifted the characteristic curves toward higher ac voltages, and produced maxima in the harmonics of the current higher than the first at moderate (100-200 V) ac voltages. The negative resistance due to these maxima may find application in the design of special purpose amplifiers and oscillators. For the Varikond, the third harmonic of the current varied more rapidly with the bias than the fundamental, and the fifth harmonic varied more rapidly than the third, higher gains can therefore be obtained with dielectric amplifiers by using higher harmonics. Of the three materials, the lamellar bismuth titanate had the best nonlinearity and temperature stability characteristics, but it also had the highest ferroelectric hardness and losses. The Varikond appeared to be the most advantageous material of those investigated, although its temperature range and nonlinearity were less than those of lamellar bismuth titanate. Orig. art. has: 4 figures.

SUB CODE: SS, EM, EC

SUBM DATE: 00/

ORIG. REF: 000

OTH REF: 000

Card 2/2

PLUZHNIKOV, V.M.; KOZLOVA, I.A., red.

[Principles of control techniques] Osnovy tekhniki upravleniia. Moskva, Mosk. inzhenerno-fizicheskii in-t
1963. 333 p. (MIRA 18:7)

L 44293-65 EEC(b)-2/EPA(s)-2/EWA(h)/EWT(1)/EEC(t) P1-1/Pt-7/Peb IJP(c) GG/GS

ACCESSION NR: AT5011602

UR/0000/64/000/000/0138/0149

AUTHOR: Pluzhnikov, V.M.

40
38
B+1

TITLE: Dielectric converters of small signals

SOURCE: Vsesoyuznoye soveshchanije po magnitnym elementam avtomatiki, telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki. Lvov, 1962, Magnitnyye elementy avtomatiki, telemekhaniki, izmeritel'noy i vychislitel'noy tekhniki (Magnetic elements of automatic control, remote control, measurement and computer engineering); trudy soveshaniya. Kiev, Naukova dumka, 1964, 138-149

TOPIC TAGS: small signal converter, dielectric converter, second harmonic converter, ferroelectric material, varicond modulator

ABSTRACT: Numerous small-signal converters of the contact and contactless type are currently in use. The most interesting among them seem to be contactless parametric converters utilizing the nonlinear properties of semiconductors and ferromagnetic materials. Another possibility is provided by nonlinear ferroelectric materials which should operate even better than the semiconductor and ferromagnetic devices since the ferroelectrics have a lower noise than ferromagnetic substances (I. A. Andronova,

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L 44293-65

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ACCESSION NR: AT5011602

Voprosy radioelektroniki, Series III, Radiodetali i uzly, no. 5-6, 1960) and the DC resistance of ferroelectrics is very high. Although, in principle, one can design converters using the fundamental or any even harmonics, earlier tests showed that high quality performance may be expected only from devices utilizing the second harmonic output. After outlining their operating principles, the author presents the characteristics of the second harmonic ferroelectric operation, modulator circuits with single-phase excitation, transverse field converters, and two-phase modulator circuits. Experiments showed that dielectric modulators made of commercial variconds possess satisfactory qualitative and quantitative properties. However, the second harmonic varicond modulators exhibited low voltage sensitivity and some residual ferroelectric polarization. The sensitivity may be increased by utilizing thinner plane variconds, but the residual polarization effect will persist until the advent of softer ferroelectrics. "The author thanks Eng. V.M. Ovsyankina for carrying out the bulk of the experimental investigations and Cand. of Techn. Sci. T.N. Verbitskaya for supplying the necessary varicond samples." Orig. art. has: 6 formulas, 13 figures, and 1 table.

ASSOCIATION: none

SUBMITTED: 29Sep64

NO REF BOV: 000

Card B/D 7/8

ENCL: 00

OTHER: 000

SUB CODE: EE, EM

PLUZHNIKOV, V. M.

Experimental study of some networks of dielectric relaxation
oscillators. Avtom. ittelem.; sbor. st. no.1:56-66 '60.
(MIRA 14:11)

1. Kafedra avtomatiki i telemekhaniki Moskovskogo inzhenerno-fizi-
cheskogo instituta.
(Oscillators, Electric)

PLUZHNIKOV, V. M., Cand Tech Sci — (diss) "Investigation of the possibilities for using variable capacitors (variconds) in pulse-forming circuits," Moscow, 1960, 14 pp (Moscow Aviation Institute im Sergo Ordzhonikidze) (KL, 33-60, 145)

AID Nr. 987-9 11 June
DISTRIBUTOR USING TRANSISTOR FERROELECTRIC CELLS (USSR)

Pluzhnikov, V. M. Priborostroyeniye, no. 4, 1963, 14-16.
S/119/63/000/004/005/010

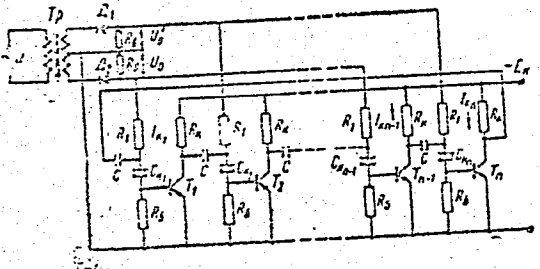
The circuit of a two-cycle pulse distributor using ferroelectric (Rochelle salt crystal) capacitors with rectangular hysteresis loop characteristics as elements of transistor-ferroelectric pulse cells is described [see illustration]. Experiments

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AID Nr. 987-9 11 June

DISTRIBUTOR USING TRANSISTOR FERROELECTRIC CELLS [Cont'd]

S/119/63/000/004/035/010



Circuit of a two-cycle pulse distributor

R_0 - discharge resistance; $T_1 - T_n$ - triodes;
 R_k - load resistance; C - input capacitors;
 C_H - ferroelectric capacitors; E_K - collector supply voltage; two half-wave rectifiers using diodes A_1, A_2 and resistors R_B .

at the Moscow Institute of Engineering Physics have shown that a distributor consisting of 10 cells and using ferroelectric capacitors with a triglycine sulfate dielectric and type П-16 triode functioned steadily at frequencies of up to 0.8 Mc and at a maximum operating temperature of 42° to 45° C. The duration of output pulses at 0.5 Mc was 0.4 μsec. It was concluded that transistor-ferroelectric cells may be utilized in the development of high-stability contactless remote control and computer systems, which in a number of cases have a higher speed than analogous systems using ferrite-transistor cells.

[DW]

Card 2/2

PLUZHNIKOV, V.M., kand.tekhn.nauk

Semigraphical design of reversive dielectric amplifiers.
Elektrichestvo no.3:42-44 Mr '64. (MIRA 17:4)

1. Moskovskiy inzhenerno-fizicheskiy institut.

PLUZHNIKOV, V.M.; IGNAT'YEV, Yu.S.

Experimental study of a system consisting of a dielectric
amplifier and medium-sized motor. Avtom.1 telem.; sbor.st.
no.3:44-52 '62. (MIRA 16:2)

(Automatic control)

PLUZHNIKOV, V.M.; ORLOVA, N.K.

Dielectric electric current converters. Avtom.i telem.; sbor.st.
no.3:53-65 '62. (MIRA 16:2)
(Electric current converters)
(Frequency changers)

PLUZHNIKOV, V.M.

Distributor equipped with ferrotransistor cells. Priborostroenie no.4:
14-16 Ap '63. (MIRA 16:4)
(Transistors)

S/803/62/000/003/007/012
D201/D308

AUTHORS: Pluzhnikov, V.M. and Ignat'yev, Yu.S.

TITLE: Experimental investigation of the system dielectric amplifier - average power motor

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya yadevnymi energeticheskimi ustanovkami, 44-52

TEXT: The authors discuss the results of experimental investigation into the performance of the two-phase asynchronous ДАД-8/300/400 (DAD-8/300/400) motor speed control system using varicon (Seignette salt) dielectric amplifier. In the experiment the control winding of the motor constitutes the load resistance of a push-pull differential dielectric amplifier, consisting of the supply transformer, four working capacitors (two in series in each arm), decoupling resistors and a bias resistor. Each working capacitor consisted of up to 40 parallel connected ВК2-Б (VK2-B) varicons. The dynamics of the overall amplifier - motor system was analyzed.

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Experimental investigation ...

S/803/62/000/003/007/012
D201/D308

by using the frequency response technique. The dynamical characteristics show that the dielectric amplifier-motor system may be represented either by serial connection of two aperiodic networks or by one oscillating network with damping greater than unity. A system without a center-tapped transformer was also investigated (the motor windings and controlled non-linear capacitors formed a bridge circuit). The input resistance of the amplifiers was found to be equal to that of the varicon insulation ($10^8 - 10^9$ ohms) and power gain equal to $5 \times 10^6 - 10^7$. Conclusion: dielectric amplifiers can be successfully used for the control of output stages of control systems. There are 8 figures.

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S/803/62/000/003/008/012
D201/D308

AUTHORS: Pluzhnikov, V.M. and Orlova, N.K.
TITLE: Dielectric converters
SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika, no. 3, 1962. Sistemy upravleniya yadevnymi energeticheskimi ustanovkami, 53-65

TEXT: The authors discuss the results of experiments on the performance of dielectric d.c. to a.c. converters using Seignette ceramic capacitors type BK (VK) with 2nd harmonic outputs. It was established that a "residual" second harmonic current exists in all samples for zero value of the d.c. electric field. This current may be reduced by heating the sample above the Curie point with simultaneous superposition of the a.c. field. Thus from the point of view of design of Seignette dielectric modulator, the second harmonic modulator circuits can be characterized by the ratio λ of the maximum current to residual current, by the slope of conversion characteristic and by the value of a.c. field for which λ is maximum.

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Dielectric converters ...

S/803/62/000/003/008/012
D201/D308

Converter circuits investigated were: 1) the differential circuit, 2) a four-pole varicon circuit and 3) a bridge circuit. Conclusions:

- 1) The varicons made of type VK-1 ceramics can be used for contactless d.c. to a.c. converters, operating at temperatures up to 50°C.
- 2) The lower threshold of sensitivity for simple circuits is 10^{-12} W.
- 3) Since the voltage sensitivity of industrial type varicons is of the order of 100 mV, the converters should be used for small d.c. currents only. The sensitivity may be increased by using circuits with the "film"-type varicons. There are 5 figures.

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ACCESSION NR: AP4019326

S/0105/64/000/003/0042/0044

AUTHOR: Pluzhnikov, V. M. (Candidate of technical sciences)

TITLE: Graphoanalytical design of reversible dielectric amplifiers

SOURCE: Elektrichestvo, no. 3, 1964, 42-44

TOPIC TAGS: ferroelectric capacitor, varicond, dielectric amplifier, dielectric amplifier design, balanced dielectric amplifier

ABSTRACT: A graphoanalytical method of designing balanced dielectric amplifiers is proposed which is similar to the method suggested earlier by M. Ye. Poyurovskiy ("Elektrichestvo," 1956, no. 7) for designing magnetic amplifiers. In this method, the variconds are supposed to be quasi-linear, their capacitance depending on their a-c and d-c voltages, but their currents are regarded as sinusoidal. Then, the amplifier is considered as a resistive non-linear two-pole network, whose fundamental relations are found from a voltage

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ACCESSION NR: AP4019326

rector diagram and curves describing open-circuit and short-circuit conditions. As a result, the load current and the phase difference between the load and the control voltages can be determined as functions of the control voltage.

Orig. art. has: 4 figures and 10 formulas.

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Engineering and Physics Institute)

SUBMITTED: 02Nov63

DATE ACQ: 27Mar64

ENCL: 00

SUB CODES: GE

NO REF SOV: 005

OTHER: 000

Card 2/2

Pl uz Halkov, V. M.

30V/28

THANE I SOVIET EXPLANATION

Moscow, ~~USSR~~ Academy of Sciences
Avtonatika i Avtomaticheskoye Upravleniye (Automation and
Telemechanics) Section of Academy of Sciences, Moscow, USSR, 115 P.
3,000 words received.

Resp. Ed.: M. V. Zolotarev, Scientific of Technical Sciences, Doctant;
Tech. Ed.: L. A. Medvedevskaya.

PURPOSE: This translation of articles is intended for engineers and
scientists concerned with the field of automatics and
remote control and other related areas.

COVERAGE: This translation contains articles by the staff of the
Chair of Automation and Remote Control, Moscow Institute of Electrical
Engineering and Mechanics. The subject of these articles is simplified
in the field of automatics. According to the editor, these works
have a scientific and practical value. No personalities
are mentioned, references from other articles.

POPov, V. M. Dynamic Characteristics of Certain Components 85
The author discusses certain circuit elements and methods
of sectioning them and which make it possible to obtain
output values required for the logarithms of input
values. The applicability of the applicability of logarithms in
relation to various parameters and to the voltage of the
power source is explained. The author presents
experimentally obtained characteristics of the investigated
components. In some Soviet-made vacuum tubes, germanium
diodes, and selenium rectifiers are used. There are 2
references in Soviet and 1 English. There are 7 diagrams.
No personalities are mentioned.

Plushnikov, V. M. Dynamic Characteristics of Ferroelectric 95
The author discusses some characteristic curves obtained
for a voltage of the VK-1 type, controlling reversible
capacitors in a function. This characteristic is well-known for several
types of ferroelectric materials; however, if instead of a d-c signal,
a periodic alternating voltage is applied at the input of the
dielectric material, what the author calls a "dynamic"
characteristic is obtained. The author describes a method
used to obtain the dynamic characteristics of the VK-1 type
various set of other ferroelectrics and attempts to
explain the physical nature of the obtained "dynamic effect".
There are 2 references in Soviet and 3 English. There are
8 illustrations, oscillograms and diagrams. No personalities
are mentioned.

Plushnikov, V. M. Synthesis-Analytical Method of Design of 106
Ferroelectric Amplifiers
The author discusses electric amplifiers in which ferro-
electric materials are utilized for the signals.
Properties are described in applying a very few satisfactory
According to the author, there are very few satisfactory
methods for calculating dielectric amplifiers. Considering
the relationship existing between dielectric and magnetic
amplifiers, the author applies some well-established methods
of calculating magnetic amplifiers to the problem of
calculating dielectric amplifiers. He also describes a
group-analytical method for calculating single-cycle dieleo-
tric amplifiers. This method was first suggested, according
to the author, by the Soviet scientist P. L. Galitskiy. The method
was further developed by other Soviet scientists. The method
allows the calculation of characteristics of ferroelectrics.
The author makes suggestions for simplifying operation
of dielectric amplifiers. There are 9 Soviet references

card 7/8

PLAZHENKOV, V.M.; AMIRKHANOV, Kh.Kh.; SEMENOV, V.S.

Polarization of ferroelectric substances under the simultaneous
action of constant and variable electric fields. Izv. AN SSSR.
Ser. fiz. 29 no.11:2113-2115 N '65. (MIRA 16:11)

PIUZHNIKOV, V.N., inzh.

Controlling the wearing out of hydraulic turbines by
sediments. Nauch.zap. MIIVKH 21:282-294 '59.
(MIRA 13:8)

(Hydraulic turbines)

PLUZHNIKOV, V.H., Cand Tech Sci -- (disc) "Study of ^{the wear} ~~attrition~~ of
hydroturbines by pumps." Mos, 1959, 17 pp with graphs (Mos Inst of
Engineering of Water Resources in V.R. Vil'yams). 150 copies
(11, 39-59, 104)

53

PLUZHNIKOV, V.N., inzh.

Effect of slit and cavitations on operating characteristics of hydraulic units. Elek.sta. 29 no.5:32-35 My '58. (MIRA 12:3)
(Hydraulic turbines)

BARSKIY, I.Ya.; BRUNBERG, Ye.M.; BUKHARIN, Ye.M.; VASILEVSKAYA, V.K.;
PLUZHNIKOVA, G.F.

Use of ultraviolet fluorescence microscopy in the study of botanical
objects. Bot.zhur. 44 no.5:639-642 My '59. (MIRA 12:11)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR i Leningradskiy
gosuniversitet.
(Botanical research) (Fluorescence microscopy) (Photomicrography)

PLUZHENIKOVA, L.I.

Comparative evaluation of the feltability of fuzz of the hairs of
hares and rabbits. Leg. prom. 18 no.8:31-33 Ag '58. (MIRA 11:9)

Glavnyy inzhener Kuybyshevskoy Gornovoy fabriki.
(Felt work)

PLUZHNIKOVA, L.S., inzhener; PAVLOV, V.I.

The most important elements in insuring excellent track conditions.
Zhel.dor.transp. 37 no.2:24-29 F '56. (MLRA 9:5)
(Railroads--Track)

PLUZHNIKOVA, L.S., inzhener; PAVLOV, V.I.

The most important elements in insuring excellent track conditions.
APPROVED FOR RELEASE: 08/23/2000 56. CIA-RDP86-00513R001341320018-8
Zhel.dor.transp. 37 no.2:24-29 F '56.
(Railroads--Track)

HANDEL, MOYSE, B. [Mandel'shteyn, Boris]; GORIN, Ya. A. [translator];
DYNIN, A. S. [translator]; MITYADIN, B. S. [translator];
PLUZHNIKOVA, N. I., red.; PRIDANTSEVA, S. V., tekhn. red.

[Closed theorems and theorems of composition] Teoremy zamknu-
tosti i teoremy kompozitsii; zapis' lektsei i perevod vypolnenny
E. A. Gorinym, A. S. Dyninym, B. S. Mitiaginym. Moskva, Izd-vo ino-
str. lit-ry, 1962. 153 p. (MIRA 16:1)
(Fourier transformations) (Series, Taylor's)

AL'FORS, LAAS [Alfors, Lars], prof.; LITMAN, Boris, prof.; ZORICH, V.A.
[translator]; KHILINOV, A.A. [translator]; SHANAT, B.V., red.;
PIUZINIKOVA, N.I., red.; MUDANTSEVA, B.V., tekhn. red.

[Space of Riemann surfaces and quasi-conformal mappings] Pro-
stranstva rimanovykh poverkhnostei i kvazikonformnye oobra-
zheniia. Pod red. B.V. Shanata. Moskva, Izd-vo Inostr. Lit-ry,
1981. 176 p. (MIRA 1511)
(Riemann surfaces) (Conformal mapping)

PLUZHNIKOVA, T.

Fashion salon. Prom.koop. no.7:8 J1 '57.

(MLRA 10:8)

1. Direktor opytno-tehnicheskoy shveynoy laboratorii, Rostov-na-Donu.
(Clothing industry)

PLUZHNIKOVA, T.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001341320018-8

1. Direktor opytno-tehnicheskoy shveynoy laboratorii (g. Rostov-na-Donu).

(Rostov-on-Don--Clothing industry)

DUL'NEV, V.; POLETSKIY, V.A.; ZINCHENKO, A.; PILIFCHUK, R.; SHINKAREV;
IGNATOVICH, G.I.; ZHANUZAKOV, N.; KHERUVIMOV, V.P.; PLUEHNIKOVA, V.

Brief news. Veterinariia 41 no.7:122-126 J1 '64.

(MIRA 18:11)

TIMOFEYEV, V.D.; PLUZHNIKOVA, V.F.

Orpiment and realgar near Lipetsk. Dokl. AN SSSR 150 no.5:1137-
1139 Je '63. (MIRA 16:8)

1. Geologos'yemochnaya ekspeditsiya geologicheskogo upravleniya
tsentral'nykh rayonov. Predstavleno akademikom D.I.Shcherbakovym.
(Lipetsk region--Orpiment) (Lipetsk region--Realgar)

TIMOFEYEV, V. D.; PLUZHENIKOVA, V. F.

Original weight of a sample for separation of heavy concen-
trate. Received. 1 okh. nedr 28 no. 646-48 Je '62.
(MIRA 19610)

1. ~~Исходный материал, полученный из~~
~~исходного материала, полученного из~~

PLUZNIKOVA, Z.A.

Some data on the ionization component of air in kindergartens.
Uch.zap. Mosk. nauch.-issl. inst. san. i gig. no.2:69-70 '59.
(MIRA 16:11)

1. Moskovskiy nauchno-issledocatel'skiy institut sanitarii i
gigiyeny imeni F.F. Erismana.

AVETISYAN, D.O.; PLUZYAN, E.B.; ALANAKYAN, G.A.

Using the method of radical hodograph in investigating frequency
characteristic of linear dynamic systems. Izv.AN Arm.SSR.Ser.tekh.
nauk 18 no.5:3-6 '65. (MIRA 18:12)

1. Submitted February 4, 1965.

PIYACHENKO, P., polkovnik, dotsent

Spetsialist of the American military attache, Kyiv, road. 36 no. 5128-20
Ukr. SSR (MIRA 1985)

ACC NR: AP7003751

SOURCE CODE: UR/0401/67/000/001/0039/0039

AUTHOR: Plyachenko, P. (Docent; Colonel)

ORG: none

TITLE: Pentagon gas cloud [Gas warfare in Viet Nam]

SOURCE: Starshina serzhant, no. 1, 1967, 39

TOPIC TAGS: cbr warfare, cbr research, chemical warfare, jungle warfare

ABSTRACT:

Based on foreign sources, such as "The National Guardsman", the author describes toxic gases used by the US in Vietnam. The American chemical weapons have also been of great interest to their allies. Although first stating that the gases used are "irritants", the article goes on to say that due to the American chemical "experiments" more than 6,000 patriots were killed in Binh Khe [Sp?] province in a twenty-day period. It quotes the Indian weekly "Dharmaram" as stating that 80 American soldiers were recently killed and 125 put out of action due to improper handling of the gases.

SUB CODE: 15/ SUBM DATE: none/ ATD PRESS: 5113

Card 1/1

UDC: none

PLYACHENKO, P., dotsent, polkovnik

Space and nuclear war. Av. 1 kosm. 45 no.1:91-95 Ja '63.
(MIRA 16:1)

(Atomic warfare)

MEMORANDUM, D.P., [illegible]

[illegible text]

PLyACHENKO, P.F.

1(0); 1X(0) ENIG I BOOK EXPLANATION 001/289

Gilshov, M.L., M.A. ... P.G. Yarsakov, V.B. Yemal'yanski, V.M. ... Y.I. Sazhchev, and A.A. Shukuyev. Voyeno-vozdushnye sily Air Force) Moscow, 1958. ind-wv M-wa obrt. 808R, 1959, 202 p. Subject: Khilovska officers) No. of copies printed not given.

General M.L. M.L. ... Colonel, (ret); Tech. M.L. ...

FOCUS: The book is intended for military personnel. It will be of interest to all those concerned in the role of air power in modern warfare.

COMBATS: The book covers the history of the Soviet Air Force and discusses its organization, types of aircraft, combat characteristics, tasks, and the cooperation between air, ground, and naval forces defined. Future prospects of development of Soviet aviation are outlined. Some attention is paid to the development and possible use of missiles by the Air Force and to anti-aircraft defense. Photos and specifications of the

Card 1/5

Following aircraft are given: Mi-10 turboprop transport aircraft, Mi-8 helicopter, Ka-26 turboprop helicopter, Yak-24 two-engine helicopter, Mi-4 helicopter, transport aircraft, Il-14 transport aircraft, MiG-21 fighter, MiG-19bis fighter, Tu-14 bomber, Su-6 bomber, Su-7 bomber, Su-26 (Su-26) bomber, Su-26 (Su-26) fighter, Su-26 (Su-26) fighter. There are 40 Soviet references.

LOYTSYANSKAYA, M.S.; PLYAKA, V.Ye.

Studying the biology of acetic acid bacteria in submerged
cultivation. Part 2: Oxidation of ethyl alcohol by Acetobacter
aceti. Vest. LGU 18 no. 3: 65-73 '63. (MIRA 1642)
(ACETOBACTER) (ETHYL ALCOHOL) (OXIDATION)

PLYAKA, V. Ye.

Studying the biology of acetic acid bacteria in submerged cultivation. Part. 1. Reproduction of *Acetobacter aceti* in a mineral synthetic medium with ethyl alcohol and acetic acid. Vest. LGU 17 no.9:148-154 '62. (MIRA 15:5)
(ACETOBACTER ACETI)

PLYAKIN, F.P., ~~Ph~~-Cand Med Sci --(diss) " On the participation of the
diaphragmatic nerve in ~~the~~ innervation of ^{the} internal organs and ~~of the~~
^{organs of the} supporting-motor system in humans and certain animals." Ryazan', 1958.

19 pp (Ryazan' Med Inst. in Acad I.P. Pavlov. Chair of Nervous Anatomy),

1958, 1958, 1958, 1958

- 55 -

USSR / Human and Animal Morphology. Nervous System. S-2
Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64767.

Author : Plyakin, F. P.
Inst : Ryazan' Medical Institute.
Title : Concerning the Connections of the Diaphragmatic
Nerve with the Sub-Lingual One.

Orig Pub: Materialy 19-y nauchn. Konferentsii Ryazansk.
med. in-ta po probleme: "Anatomiya i patologiya
organov grydnoy polosti", Ryazan', 1956, 67-71.

Abstract: In 20 human cadavers studied, connections of the
diaphragmatic nerve with the sublingual nerve were
discovered in 11 cases. The connection of the
branches of the sublingual nerve with the second-
ary radicles of the diaphragmatic nerve or with

Card 1/2

C.A.

12

Electric apparatus for determination of salt in butter.
G. Piyakhin. *Molochnyye Prom.* 11, No. 9, 30-1 (1950).—
A simple cond. app. is used for the detn. of NaCl content in
dispersions of butter samples in pure H₂O. Direct calibration
in percentage of NaCl is used on the milliammeter
in the circuit. G. M. Kosolapoff

PLYAKHIN, G. M.

Experience of outstanding experts in the Siberian butter industry) Moskva,
Pishchepromizdat, 1952. 61 p. (Biblioteka obmena opytom stakhanovtsev
miasnoi i molochnoi pro-myshlennosti) (54-22016)

97211, 8318

PLYAKIN, R.G.

The Role of the Formation Chief Surgeons in the Organization of Medical and Prophylactic Service For the Troops

VOYENNO-MEDITSINSKIY ZHURNAL (Military Medical Journal), no. 2, February 1955, p. 8

Verbatim translation D 311960, 16 Aug 55

P. LYAKOV, V.S.

PAVLOV, Ya.M., kandidat tekhnicheskikh nauk, dotsent; ITS KOVICH, G.M.,
inzhener, retsenzent; P. LYAKOV, V.S., kandidat tekhnicheskikh
nauk; FETISOV, P.I., inzhener, zaveduyushchiy redaksiyey; POL'-
SKAYA, R.G., tekhnicheskiy redaktor

[Machine parts] Detali mashin. Leningrad, Gos. nauchno-tekhn. izd-
vo mashinostroit. i sudostroit. lit-ry, 1954. 480 p. [Microfilm]
(MIRA 7:9)

1. Leningradskoye otdeleniye Mashgiza (for Fetisov)
(Machinery--Design)

PLYAKOV, V.S.
PLYAKOV, V.S.

Indication of the operation of some letter with. Part. May. 12. 1951
10. 11. 1951

NARIMANOV, R.A.; PLYAM, E.A.

Wear resistance of boring-bit supports. Za tekh.prog. 3 no.8:
18-20 Ag '63. (MIRA 17:1)

1. Zavod burovogo instrumenta imeni S.M.Kirova.

Effect of petrographic composition of soft brown coals on their
briquetting capacity; abbreviated translation by S.B. Pliamovichina.

"Freiberger Forschungshefte," A-45, 1956. Izv. DOI 29:195-208 '57.
(Lignite) (MIRA 11:5)

VASYUKOVA, YE. A., VASIL'YEVA, A. G., PLYASETSKIY, N. R.

"The Condition of the Cardio-Vascular System in Itsenko Cushing Disease."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959
(All-Union Institute of Experimental Endocrinology)

From the clinical department of the All-Union Institute of Experimental
Endocrinology (Director--Professor Ye. A. Vasyukova)

PLYASHCHENKO, A. I.

"Comparative Anatomical Structure of the Vegetative Nerves of the Thoracic Cavity in Relation to the Innervation of the Heart and Lungs in a Number of Vertebrates." Cand Biol Sci, Leningrad Veterinary Inst, Leningrad, 1953. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

PLYASHCHENKO, S. I.

COUNTRY : USSR
CATEGORY : Farm Animals. Cattle. Q
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 12013
AUTHOR : Cheredkov, V. N.; Plyashchenko, S. I.;*
ORIG. PUB. : Grodno Institute of Agriculture.
TITLE : An Experiment on Feeding Corn Silage to Milch Cows. 1st Report.

ORIG. PUB. : Tr. Grodnensk. s-kh. in-ta, 1957, vyp. 3, 173-191

ABSTRACT : It was established that cows with a live weight of 500 kg and an average daily milk yield of 10-15 kg consumed an average of 20.9 kg of corn silage daily when it was fed to them as the only juicy feed and they consumed 15.3 kg of it daily when it was combined with beets. Feeding corn silage as the only juicy feed did not reduce milk yields and did not effect the cows' physiological state of health.
-- P. M. Kazantsev
See also: Energy Metabolism in Calves, 12417

Card:

1/2

*Shumskiy, P. I.; Baranov, M. N.; Byelova, Ye. S.

DATE :
AUTHOR :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : Carbohydrate Metabolism in Calves, 12477,
12478, Glucose Metabolism in the Udder of a
Cow, 12479, Fructose Metabolism in Cows,
12495. The Skin Temperature of Calves and
Environment, 12556. Hematological indicators
in Dairy Cattle, 12601

CARD: 2/2

COUNTRY : USSR
 CATEGORY : Blood of Farm Animals
 TITLE : The blood's Protein Fractions in Bronchopneumonia of Swine
 ORIG. PUB. : Tr. Godnensk. s.-kh. in-ta, 1957, vyp. 1, 262-265
 ABSTRACT : It was shown that in spontaneous bronchopneumonia of swine of noncontagious etiology, regular changes of the blood's plasma protein composition are observed, as well as an increase of the fibrinogen and globulin contents and a decrease of the albumin quantity and of the size of the albumin-globulin coefficient. The general amount of protein does not vary with these changes. The determination of the protein content in the blood plasma of swine

CARD: 1/2

DC
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :
TC :
TITL. :

ORIG. PUB. :

ABSTRACT : may serve as an additional test for applying
at the diagnosis of brucellosis. - See
also abstract summary.

Card: 2/2

PLYASHCHENKO, Sergey Ivanovich; BIBIKOV, Fedor Prokof'yevich;
MATSYUK, F., red.

[Poisonous and injurious plants] IAdovitye i vrednye
rasteniia. Minsk, Urozhai, 1965. 107 p. (MIRA 19:1)

PLYASHCHENKO, S.I., kand. veterinar. nauk

Contribution of veterinary specialists to the development of
animal husbandry. Veterinaria 41 no.4:1-3 Ap '64.

(MIRA 17:8)

1. Belorusskiy nauchno-issledovatel'skiy institut zhivotno-
vodstva.

PLYASHCHENKO, S.I., dotsent; DUDAREV, M.A., mladshiy nauchnyy sotrudnik; KOMAROVSKIY, V.G.

Case of mass poisoning of suckling piglets by ergot. Veterinariia 40
no.9:59 S 63. (MIRA 27:1)

1. Belorusskiy nauchno-issledovatel'skiy institut zhiivotnovodstva (for Plyashchenko, Dudarev). 2. Glavnyy veterinarnyy vrach sovkhoza "Podles'ye", Gomel'skoy oblasti (for Komarovskiy).

Urology / Human and Animal Chemistry - Metabolism

Abstr Jour : Med Zhurn = Medicinska, No 1, 1959, No. 3076

Author : Plyashchenko, S. I.

Inst : Grodno Agricultural Institute

Title : On Participation of the Lungs in Regulation of the Blood Proteins

Orig Pub : Tr. Grodnensk. s.-kh. in-ta, 1957, Vyp. 3, 266-272

Abstract : In rabbits, transection of vagus nerve branches supplying the left lung, after preliminary section of its branches to the liver, produced changes of the blood protein composition as expressed by an increase in the concentration of fibrinogen, the globulins, and (although not in all cases) of the total protein and a decrease in albumin and A:G ratio. According to the author, the data obtained indicate participation of the lung tissue (conveyed by the

Card 1/2

FLYASHCHENKO, A. I.

"Data on the examination of vegetative nerves of the chest cavity in a cat in connection with the innervation of the heart and lungs", (Aspirant, Department of Normal Anatomy). Collected Works No. 14, of Leningrad Veterinary Institute USSR Ministry of Agriculture, P 155, Sel'khozgiz, 1954.

GAYKO, A.A., kand. sel'khoz. nauk; PLYASHCHENKO, S.I., kand. veter. nauk; RYKSHINA, Z.P., kand. sel'khoz. nauk; KOVALENKO, A., red.

[Feeding, breeding, and maintaining of cattle] Kormlenie, razvedenie i soderzhanie krupnogo rogatogo skota. Minsk, Izd-vo "Urozhai," 1964. 124 p. (MIRA 17:7)

FLYADISCHNIK, A. Ya., elektronika

Universal power supply for testing electric measuring devices.
Avtom., telem. i sviaz' 5 no.3:25-26 Mr '61. (MIRA 14:9)

1. Laboratoriya signalizatsii i svyazi Yugo-Zapadnoy dorogi.
(Electric power supply to apparatus)
(Railroads--Electronic equipment)

PLYASHKEVICH, A. M.

Continuous-diffusion equipment for extraction of medicinal plants from plant matter. A. G. Natunze and A. M. Plyashkevich. *Khimiya i Farmatsiya*, 1966, No. 1, 486-487. Description of several types of mech. arrangements of continuous liquid-solid extractors suitable for pharmaceutical work with plant matter. Diagrammatic sketches are shown for a disk-conveyor and a screw-conveyor type of app. which proved themselves in exptl. installations in USSR for extrn. of such substances as caffeine. G. M. K.

Med

2

PLYASHKEVICH, A.M.

Scientific and technical meeting on the extraction from vegetable
raw material. Med.prom. 16 no.5:61-64 My '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonikidze.
(BOTANICAL DRUG INDUSTRY)

RUBTSOV, M.V., prof., otv. red.; PERSHIN, G.N., prof., zam. otv. red.;
MAGIDSON, O.Yu., prof., red.; MASHKOVSKIY, M.D., prof., red.;
UTKIN, L.M., prof., red.; RUZHENTSEVA, A.K., prof., red.;
SHCHUKINA, M.N., prof., red.; BAYCHIKOV, A.G., kand. tekhn. nauk,
red.; MIKHALEV, V.A., kand. khim. nauk, red.; RYAZANTSEV, M.D.,
kand. tekhn. nauk, red.; SUVOROV, N.N., kand. khim. nauk, red.;
PLYASHKEVICH, A.M., st. nauchnyy sotr., red.

[Basic trends in the work of the S.Ordzhonikidze All-Union Chemico-pharmaceutical Scientific Research Institute; survey of its activity from 1920 to 1957] Osnovnye napravleniia rabot VNIKhFI; obzor deiatel'nosti za 1920-1957 gg. Moskva, 1959. 649 p. (MIRA 15:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

PLYASHKEVICH, A.M.

Investigation of processes of extraction for the liquid-solid state systems. Report No. 1: Investigating the kinetics of diffusion of caffeine in a system of molded tea material and water, Khim. i med. no. 12:56-63 '59. (MIRA 13:10)
(CAFFEINE)

NATRADZE, A.G., kandidat tekhnicheskikh nauk; PLYASHKEVICH, A.M.

Continuous diffusers for extracting medicinal substances from
vegetable raw materials. Khim.nauka i prom. 1 no.4:455-460 '56.
(DIFFUSERS) (DRUG INDUSTRY) (MLRA 9:11)

PLYASHKEVICH, A.M.; PLANOVSKIY, A.N.; BULATOV, S.N.; RYABININ, V.A.
ZELINSKAYA, L.G.

Study of caffeine extraction in the column extractor with
sieve plates. Med. prom. 17 no.6:32-36 Je'63 (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze i Moskovskiy institut khimicheskogo mashinostroyeniya.

L 11535-66 EMT(m)/ENP(j)/T FM

ACC NR: AP6006358 (A) SOURCE CODE: UR/0413/66/000/002/0094/0094

INVENTOR: Khar'kov, S. N.; Bogdanov, M. N.; Spirina, I. A.; Leshiner, A. U.-A.; Plyashkevich, L. A.

ORG: none

TITLE: Preparative method for polyamides. ^{15,44,56} Class 39, No. 178102
[announced by All-Union Scientific Research Institute of Artificial Fibers (Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 94

TOPIC TAGS: polyamide, carboxyl group, interfacial polycondensation

ABSTRACT: An Author Certificate has been issued for a preparative method for carboxyl group-containing polyamides. The method involves interfacial polycondensation of diamines containing no acyclic chains with benzenetricarboxylic acid dichlorides.

[B0]

SUB CODE: 11/ SUBM DATE: 28Mar63/ ATD PRESS: 4198

07/

Card 1/1

UDC: 678.675.002.2

BOGDANOV, M.N.; KHAR'KOV, S.N.; SPIRINA, I.A.; LESHCHINER, A.H.; FLYASHKEVICH,
L.A.

Synthesis and properties of polyamides with carboxyl groups. *Vysokom.*
soed. 7 no.5:813-816 My '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna.

I 33525-66 .WT(m)/T/EWP(j) RM

ACC NR: AP6015055

(A)

SOURCE CODE: UR/0190/66/008/005/0903/0909

AUTHOR: Bogdanov, M. N.; Leshchiner, A. U.; Plyashkevich, L. A.

37
B

ORG: Scientific Research Institute of Synthetic Fiber (Nauchno-issledovatel'skiy institut iskusstvennogo volokna)

TITLE: Introduction of terminal aromatic amino groups into polycaproamide. (First report in a series on "Synthesis and chemical modification of polyamides with reactive groups")

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 5, 1966, 903-909

TOPIC TAGS: polymer, amino acid, polyamide, polymerization, molecular weight, ~~polycaproamide~~, amino group

ABSTRACT: The hydrolytic polymerization process of ~~ε-caprolactam~~ in the presence of aromatic diamines and other aminocarboxylic acids has been investigated. It was shown that these compounds are regulators of the molecular weight of the poly-ε-caproamide and that through them it is possible to introduce into the polymer a certain number of aromatic amino groups to preserve the fiber productive capacity. A method of quantitative determination of small concentrations of aromatic amino groups in the polycaproamide was developed. Orig. art. has: 4 figures, 3 formulas, and 1 table.

[NT]

SUB CODE: 11, 07/ SUBM DATE: 22May65/ ORIG REF: 009/ OTH REF: 006

Card 1/1 92

UDC: 541.64+67:75

BOGDANOV, M.N.; KHAR'KOV, S.N.; SPIRINA, I.A.; LESHCHINER, A.U.;
PLYASHKEVICH, L.A.

Synthesis and properties of polyarylates with carboxyl groups.
Vysokom. soed. 7 no.4:734-736 Ap '65.

(MIRA 18:6)
1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna.

I 63036-65 ENT(m)/ENG(m) JAJ/RM/DS

ACCESSION NR: AP5013054

UR/0190/65/007/005/0813/0816
541.64+678.675

21
20
B

AUTHORS: Bogdanov, M. N.; Khar'kov, S. N.; Spirina, I. A.; Leashchiner, A. U.; Plyashkevich, L. A.

TITLE: Synthesis and properties of carboxyl-containing polyamides ¹⁵

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 5, 1965, 813-816

TOPIC TAGS: polymer, resin, polyamide, polyamide plastic, polycondensation

ABSTRACT: This report is an extension of the method for obtaining hetero-chain polymers with active groups in side chains to polyamides. The introduction of carboxyl groups was undertaken in the hope to increase the solubility and thermal stability of polyamides and to render them useful as ion exchangers. The synthesis consisted of interfacial polycondensation at room temperature of halides of dicarboxylic acids with aliphatic and aromatic diamines. The monomers used were: dichloroanhydride of trimelic acid, (X₁) N-(6-aminohexyl)-ω-aminoε-caproic acid (A), dichlorohydrate of N,N'-di-(6 carboxyhexyl)-n-phenylenediamine (N) dichloroanhydride of terephthalic acid (X₂), dichloroanhydride of sebacic acid (X₃), dichlorohydrate of m-phenylenediamine (M), dichlorohydrate of n-phenylenediamine

Card 1/2

L 63036-65

ACCESSION NR: AP5013054

(P), trans-n-diaminocyclohexane (T), piperazine (D), and 1,6-hexamethylenediamine
(G). The polymers obtained are not thermostable and are soluble in alkalies.
The polymer alkali metal salts exchange ions with a number of metal salts and
mineral acids with the formation of insoluble carboxyl-containing polyamides.
Orig. art. has: 2 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna
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Card 4/4

L 44132-65 EPP(s)/EPR/EWP(m)/EWP(j)/P Ps-4/Ps-4/Ps-4 RPL WW/RM
ACCESSION NR: AP5011256 UR/0190/65/007/004/0734/0736

AUTHOR: Bogdanov, M. N.; Khar'kov, S. N.; Spirina, I. A.; 31
Leshchiner, A. U.; Plyashkevich, L. A. 30
B

TITLE: Synthesis and properties of polyaryl esters⁷ containing carboxyl groups

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 4, 1965, 734-746

TOPIC TAGS: polyaryl ester, carboxyl group, heat resistant polymer

ABSTRACT: New polyaryl esters containing free carboxyl groups have been prepared and some of their properties have been studied. The introduction of carboxyl groups was of interest as a means of imparting to the polymers solubility in alkalies and ion exchange properties, and of increasing heat resistance via the formation of salt-like crosslinks. Polymeric and copolymeric polyaryl esters were prepared by interfacial polycondensation of trimesinyl dichloride (I) and/or terephthaloyl chloride (II) and 4,4'-dihydroxy-2"-carboxytriphenylmethane (III) and/or 2,2-bis(4-hydroxyphenyl)propane (IV) in sodium hydroxide solution at room temperature. The properties of the polyaryl esters

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ABSTRACT

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were highly dependent on the monomer structure. All polyaryl esters from I were poorly soluble in dilute alkalies, but soluble in strong alkalies with hydrolysis. Polymers from I and IV were also poorly soluble in cresol and tetrachloroethane; with the addition of II, solubility in cresol appeared. Polymers from II and III were soluble in dilute alkalies in the cold and in cresol. The polyaryl esters melted with decomposition in the range 240—320C. Orig. art. has: 2 formulas and 1 table. [SM]

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Card 2/2

L 00835-67 EWT(m)/EWP(j)/T LJP(c) RM/JW

ACC NR: AP6027776 (A) SOURCE CODE: UR/0190/66/008/008/1423/1427

AUTHOR: Bogdanov, M. N. ; Leshchiner, A. U. ; Plyashkevich, L. A.

33
β

ORG: All-Union Scientific Research Institute of Synthetic Fibers (Vsesoyuznyy nauchno-issledovatel' skiy institut iskusstvennogo volokna)

TITLE: Introduction of terminal aromatic amino groups in poly-ε-caproamide using m-phenylenediamine and its hydrochloride

ЖУРНАЛ: Vysokomolekulyarnyye soedineniya, v. 11, no. 11, 1988, 1488-1497

TOPIC TAGS: caprolactams, chlorohydrate, polymerization

ABSTRACT: A process has been studied for hydrolytic ε-caprolactame polymerization in the presence of m-phenylenediamine and anhydrous or crystalline soda. Optimum correlations of these reagents are found which permit the maximum number of terminal aromatic aminogroups to be introduced in poly-ε-caproamide with a conservation of high molecular weight. It is shown that the addition of dimethylterephthalate in the presence of m-phenylenediamine permits the concen-

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UDC: 541.64+678.675